

INSTITUTE OF GEOLOGICAL SCIENCES
MINERAL RESOURCES DIVISION

STATISTICAL
SUMMARY OF THE
MINERAL INDUSTRY

WORLD PRODUCTION,
EXPORTS AND IMPORTS

1961-1966



LONDON

HER MAJESTY'S STATIONERY OFFICE

PRICE £1 7s. 6d. NET

NATURAL ENVIRONMENT RESEARCH COUNCIL
INSTITUTE OF GEOLOGICAL SCIENCES
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PREFACE

This publication is prepared by the Statistics Unit of the Mineral Resources Division of the Institute of Geological Sciences. The Institute was formed in June 1965 by the incorporation of Overseas Geological Surveys with the Geological Survey of Great Britain and the Museum of Practical Geology and is a constituent body of the Natural Environment Research Council.

The statistical tables have been compiled from a large number of official and commercial sources. The information obtained from Mines Reports, Trade Returns and other published works, and the assistance given by government and private correspondents throughout the world, are gratefully acknowledged.

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EXPLANATORY NOTES

Coverage. Although this Summary attempts to provide a comprehensive world coverage of mineral production and trade, it has not been possible to obtain complete information for every country. In the production tables, estimates for certain countries have been included where necessary in order to arrive at world totals. In the trade tables, however, such estimates have generally not been attempted and the coverage is limited to that available from the official trade returns. The absence of import or export figures for a particular country from a table does not necessarily signify no trade in the commodity concerned, but may mean only that the item has not been separately specified in that country's trade returns.

Arrangement of Countries. In each table, Commonwealth countries are grouped separately from other countries. Within their respective groups the countries are then listed alphabetically by continents in the following order: Europe, Africa, North and Central America, South America, Asia and Australasia.

For Swaziland and Botswana, production statistics are recorded separately but the foreign trade is dealt with for Customs purposes as part of that of South Africa. The trade figures for South-West Africa are also generally included with those for South Africa.

From 1963 the trade statistics for Aden may include those of other states in the Federation of South Arabia.

From April, 1963, the trade statistics for India include those of Goa.

The production and trade statistics for West Malaysia and Singapore are now shown separately, the trade statistics including trade between these countries. West Malaysia and Singapore constituted the territory "Malaya" shown in previous editions of this Summary.

The trade statistics for Spain and Spanish Dependencies exclude the trade between these territories.

For 1961 the trade statistics for Egypt and Syria exclude trade between these countries.

Production of Ores and Metals. In the sections on cobalt, copper, lead, tin and zinc, tables are given showing both the production of ore, in terms of its metal content, and the actual production of metal. The metal content of the ore produced is either as calculated from average assay values or is the amount of metal estimated to be recoverable. The ore is, of course, not necessarily smelted in the country of origin and the metal production in a particular country may be derived from both domestic and imported ores. Secondary metal is excluded, as far as possible, from the metal production tables but where important is given in footnotes to the producing countries.

Imports and Exports. Except in the cases of gold and silver, the figures shown in the tables are intended to represent exports of domestic produce and imports retained, i.e. total imports less re-exports. In certain cases it has not been possible to allow for re-exports and figures relate to total exports and total imports. Shipments of coal and oil as bunker fuel, which constitute an important part of the trade of some countries, are shown separately in the export tables; where these shipments consist of, or include, foreign produce a footnote is given to that effect.

Units. The units of weight employed in the tables are: the metric carat, the troy ounce, the lb. (avdp.) and the long ton. Their equivalents in certain other units are as follows:

1 metric carat	= 0.2 gramme	1 lb. (avdp.)	= 7,000 grains
	= 3.08648 grains		= 14.5833 troy ounces
			= 0.453592 kilogrammes
1 troy ounce	= 480 grains	1 long ton	= 2,240 lb. (avdp.)
	= 31.1035 grammes		= 1.12 short tons
	= 155.5175 metric carats		= 1.016047 metric tons

The factors used for converting volumes of liquids into long tons are given in footnotes to the tables relating to Coal By-Products (p.86) and Petroleum and Allied Products (pp. 240, 254).

Symbols. The following symbols are used in this Summary:

— = Nil, or negligible. *r* = Revised figure. *n.a.* = Information not available.

ABRASIVES*

PRODUCTION OF NATURAL ABRASIVES

Long tons

Producing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Kenya—						
Pumice (b)	696	1,110	280	1,415	1,023	780
Rhodesia—						
Corundum	2,493	2,989	5,304	2,563	(a) 3,208	(c) 3,500
Tanzania—						
Corundum (a)	4	—	400	391	—	100
Canada—						
Garnet	71	45	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Grindstones	9	9	9	—	4	4
India—						
Corundum	324	296	648	531	473	379
Garnet	(e) 237	(e) 403	395	290	218	169
Australia—						
Garnet	63	53	91	80	130	205
New Zealand—						
Pumice (b)	32,712	32,522	16,606	20,518	107,863	18,039
OTHER COUNTRIES						
Belgium—						
Grindstones	57	56	59	48	43	44
France—						
Pumice (b)	1,299	1,675	758	902	697	<i>n.a.</i>
Millstones	1,300	1,210	1,208	1,085	1,173	1,512
Sharpening stones	139	126	39	11	10	12
Germany (Federal)—						
Pumice (d)	5,266,000	5,617,000	6,289,000	5,729,000	5,016,000	5,305,000
Tripoli	6	25	25	25	25	8
Greece—						
Emery	7,100	7,500	7,470	7,480	<i>n.a.</i>	<i>n.a.</i>
Pumice	70,000	78,516	r 99,873	225,482	(c) 200,000	(c) 296,000
Pumicite	190,000	185,065	234,611	308,701	(c) 400,000	(c) 345,000
Iceland—						
Pumice (b)	(c) 8,000	(c) 6,500	12,303	9,842	(c) 10,000	(c) 10,000
Italy—						
Pumice	421,800	455,800	921,000	947,600	<i>n.a.</i>	<i>n.a.</i>
Sharpening stones	213	157	157	—	<i>n.a.</i>	<i>n.a.</i>
Whetstones	399	455	102	59	<i>n.a.</i>	<i>n.a.</i>
Spain—						
Garnet	185	164	70	—	<i>n.a.</i>	<i>n.a.</i>
Sweden—						
Grindstones and whetstones	615	623	737	1,945	948	<i>n.a.</i>
Canary Islands—						
Pumice (b)	1,415	1,713	1,505	2,257	<i>n.a.</i>	<i>n.a.</i>
Malagasy Republic—						
Garnet	49	98	2	(a) 52	(a) 103	(a) 6
South Africa—						
Corundum	142	312	71	53	307	357

*See also Aluminium, Diamonds and Diatomaceous earth.

(a) Exports.

(b) May include pumice for use other than as an abrasive.

(c) United States Bureau of Mines' estimate.

(d) Marketable. Including pumice and pumicite for constructional purposes.

(e) Including small quantities of gem variety.

PRODUCTION OF NATURAL ABRASIVES (cont.)

Long tons

Producing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
United States (c)—						
Emery	5,518	3,854	6,011	8,227	9,571	9,912
Garnet	10,765	12,648	13,059	14,396	17,259	19,600
Pumice and pumicite						
(a) (b)	2,198,737	2,028,000	2,337,503	2,478,993	3,010,000	2,873,000
Tripoli	48,787	55,118	59,496	57,690	63,516	59,074
Argentina—						
Garnet	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	59	<i>n.a.</i>
Turkey—						
Emery	8,195	3,354	7,372	12,201	12,374	29,005

Abrasives are also produced in other countries, statistics for which are not available.

The following crude artificial abrasives were produced in Canada (long tons):

	1961	1962	1963	1964	1965	1966
Silicon carbide ..	70,704	58,798	69,974	76,279	87,987	<i>n.a.</i>
Fused alumina ..	111,876	144,508	132,247	132,446	151,151	<i>n.a.</i>

The United States Bureau of Mines reports the following artificial abrasives sold, shipped or used from plants in the United States and Canada (long tons):

	1961	1962	1963	1964	1965	1966
Silicon carbide ..	112,255	103,318	97,635	117,772	123,466	142,000
Aluminium oxide ..	122,278	162,432	142,914	153,091	174,532	218,000
Metallic abrasives ..	97,781	112,296	119,114	139,109	170,131	183,000

(United States plants only)

The figures given above include material used for refractories and other non-abrasive purposes.

(a) Including pumice for use other than as an abrasive.

(b) Including volcanic cinders used principally for ballast which amounted to 1,362,987 tons in 1961, 1,551,417 tons in 1962, 1,399,844 tons in 1963, 1,438,476 tons in 1964, 2,579,000 tons in 1965 and 2,383,000 tons in 1966.

(c) Sold or used by producers.

EXPORTS OF ABRASIVES*

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Abrasives, natural ..	2,195	2,045	3,975	r 4,586	3,036	3,617
Corundum artificial ..	n.a.	n.a.	2,687	4,260	5,023	5,345
Grinding wheels, etc. ..	6,777	5,835	6,902	7,233	7,491	7,005
Other manufactured abrasives ..	301	559				
Rhodesia (d)—						
Corundum ..	2,620	2,926	4,660	2,972	3,208	n.a.
Tanzania—						
Corundum ..	4	—	r 400	r 391	—	100
Canada—						
Natural abrasives, including diatomaceous earth ..	5	—	110	172	128	27
Artificial abrasives, crude ..	194,328	203,246	201,219	211,379	239,454	264,034
Artificial abrasive wheels, etc. ..	} (£46,821)	} (£93,721)	} (£48,105)	} (£104,770)	} (£57,345)	} (£232,172)
Grindstones ..						
Hong Kong—						
Grinding and polishing wheels, etc. ..	16	34	27	58	41	72
India (c)—						
Grindstones, etc. ..	6,022	1,792	2,089	2,887	703	201
New Zealand—						
Pumice (a) ..	1,155	456	667	(e) 851	(e) 933	(e) 822
OTHER COUNTRIES						
Austria—						
Natural abrasives ..	1	3	47	8	—	—
Millstones and grindstones ..	9	13	5	9	4	6
Corundum, artificial ..	5,706	9,380	12,693	10,772	14,750	17,279
Belgium-Luxemburg E.U.—						
Natural abrasives ..	112	165	272	8	4	303
Carborundum ..	198	82	202	253	199	184
Corundum, artificial ..	187	28	82	27	145	224
Millstones, grindstones, etc. (b) ..	779	983	1,044	1,150	1,218	1,473
Denmark—						
Emery ..	—	2	—	2	—	2
Millstones and grindstones ..	6	7	9	54	37	34
Finland—						
Grindstones, etc. (b) ..	n.a.	n.a.	105	99	46	48
France—						
Corundum and emery ..	100	84	58	103	49	71
Pumice ..	37	33	31	52	32	133
Other natural abrasives ..	314	541	459	630	292	392
Millstones and grindstones ..	817	617	} 1,622	} 1,977	} 2,007	} 2,345
Whetstones ..	76	15				
Carborundum ..	2,059	2,066	2,445	2,599	1,951	1,589
Corundum, artificial ..	14,487	12,204	12,172	9,784	10,011	13,639
Germany (Federal)—						
Emery and corundum ..	533	453	189	161	243	174
Pumice (f) ..	680,570	622,932	694,496	628,613	583,193	554,048

*See also Aluminium, Diamonds and Diatomaceous earth. (c) Years ended March 31 following that stated.

(a) May include pumice for use other than as an abrasive. (d) Figures for years 1961 to 1963 relate to Rhodesia and Nyasaland.

(b) Including artificial. (e) Year ended June 30 of that stated.

(f) Including pumice and pumicite for construction purposes.

EXPORTS OF ABRASIVES (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (Federal)						
<i>(cont.)—</i>						
Other natural abrasives	4	9	3	2	—	—
Millstones, grindstones, etc. (a) ..	1,871	1,910	1,751	2,113	5,096	6,421
Carborundum ..	6,160	7,712	6,614	6,083	6,926	7,196
Corundum, artificial ..	17,235	18,207	17,030	19,021	21,031	24,443
Greece—						
Emery ..	5,218	6,772	5,423	4,649	5,632	5,170
Pumice ..	11,951	68,067	43,142	121,092	197,849	184,528
Italy—						
Pumice ..	r 98,959	133,306	338,395	r 316,665	146,381	314,415
Emery and corundum	r 570	24	66	r 22	306	50
Other natural abrasives	88	r 100	487	r 113	891	979
Millstones ..	r 2,507	r 1,399	1,237	r 1,571	2,201	2,774
Grindstones ..						
Whetstones ..						
Carborundum ..	r 5,952	6,985	7,656	r 8,236	7,692	8,139
Corundum, artificial ..	1,544	r 586	441	629	2,172	3,083
Netherlands—						
Natural abrasives	4,088	4,205	4,248	9,394	4,713	4,801
Millstones, grindstones, etc. ..	258	338	363	381	557	716
Corundum, artificial ..	36	35	36	13	25	19
Norway—						
Natural abrasives ..	2	15	—	76	—	—
Carborundum ..	16,503	18,114	15,411	22,453	27,282	35,071
Sweden—						
Emery ..	—	5	1	11	15	—
Other natural abrasives	43	36	42	41	44	35
Carborundum ..	555	732	446	216	831	284
Corundum, artificial ..	1,360	829	677	704	890	1,299
Millstones, grindstones, etc. ..	158	79	486	1,448	227	86
Switzerland—						
Carborundum, emery, etc., crude ..	1,958	1,924	2,842	3,168	3,666	3,932
do. do. ground ..						
Yugoslavia—						
Natural abrasives ..	1,838	2,949	2,009	2,534	48	n.a.
Millstones, grindstones, etc. ..	—	73	116	190	950	1,044
Carborundum ..	n.a.	8	101	49	34	79
Corundum, artificial ..	n.a.	n.a.	n.a.	n.a.	3,104	4,078
Malagasy Republic—						
Garnet ..	99	76	1	52	103	6
South Africa—						
Corundum ..	143	517	71	53	—	—
Other natural abrasives	n.a.	n.a.	n.a.	87	8	92
Grinding wheels, etc. ..	n.a.	n.a.	n.a.	212	227	171
Mexico—						
Pumice, etc. ..	231	1,581	6,378	7,051	7,067	6,619
United States—						
Corundum ..	86	98	67	138	(b)	(b)
Emery powder ..	1,035	731	559	607	(b)	(b)
Grindstones ..	110	114	37	160	1,932	1,960
Whetstones, etc. ..	89	77	62	332	210	273
Other natural abrasives	10,140	9,563	11,362	12,492	12,010	14,893
Aluminium oxide, fused	10,525	12,078	11,729	16,706	15,405	16,282
Carborundum ..	10,921	9,130	8,762	10,013	(c) 11,392	7,994
Unfused alumina ..	77	133	168	403	n.a.	n.a.

(a) Including artificial.

(c) May include other crude artificial abrasives.

(b) Included with "other natural abrasives".

EXPORTS OF ABRASIVES (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
United States <i>(cont.)</i> —						
Other crude artificial abrasives	130	160	93	155	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Emery	155	237	284	361	414	622
Other natural abrasives	127	231	58	96	74	104
Grindstones, etc. ..	159	189	363	788	972	1,234
Artificial abrasives ..	445	1,214	1,063	817	1,529	2,489
Turkey—						
Emery	9,649	8,570	8,220	9,071	16,392	26,414

IMPORTS OF ABRASIVES*

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Emery	4,416	2,650	11,998	14,153	13,789	21,382
Garnet concentrates—						
Unground						
Ground	9,322	8,308				
Other natural abrasives						
Corundum, artificial ..	14,238	12,428	14,031	15,151	17,409	12,411
Carborundum	12,510	13,744	11,508	13,763	16,918	12,291
Grinding wheels of hard abrasives	540	691	531	917	1,018	1,503
Grindstones and whetstones etc.						
Malta—						
Pumice	100	—	431	7	(£1,089)	(£3,134)
Grinding and polishing wheels	(£2,496)	(£2,662)	(£3,442)	(£5,924)	(£4,771)	(£7,507)
Ghana—						
Grinding and polishing wheels	68	132	60	57	62	438
Kenya and Uganda—						
Grindstones, etc.	60	45	50	69	54	45
Mauritius—						
Grindstones, etc.	54	42	43	30	51	39
Rhodesia (b)—						
Grinding and polishing wheels and stones	229	184	201	187	179	n.a.
Tanzania—						
Grindstones, etc.	12	12	13	12	22	24
Zambia—						
Grinding and polishing wheels and stones	n.a.	n.a.	n.a.	63	96	116
Canada—						
Pumice, etc.	n.a.	n.a.	n.a.	9,711	9,404	12,881
	(£59,073)	(£79,545)	(£64,685)	(£53,010)	(£58,680)	(£73,300)
Emery, etc.	(£66,716)	(£68,553)	(£89,933)	n.a.	n.a.	n.a.
Artificial abrasives, ground	(£833,720)	(£963,746)	(£982,982)	} (£1,373,256)	} (£1,402,499)	} (£1,564,511)
Artificial abrasive manufactures	(£194,207)	(£190,086)	(£198,462)			
Grindstones and wheels	(£831,574)	(£903,191)	(£896,632)			
Jamaica—						
Natural abrasives	6	9	5	12	4	61
Grindstones	11	10	8	11	10	14
Trinidad and Tobago—						
Grindstones and wheels	19	15	19	15	22	22
Ceylon—						
Natural abrasives	112	27	308	21	16	19
Grinding and polishing wheels, etc.	(£12,581)	(£12,016)	(£8,369)	(£9,435)	(£17,741)	(£13,587)
Cyprus—						
Grindstones and millstones	(£7,757)	(£8,964)	(£11,170)	(£6,538)	(£9,193)	(£11,838)
Hong Kong—						
Natural abrasives	67	165	250	200	212	256
Grinding and polishing wheels, etc.	148	266	820	1,867	329	257
India (a)—						
Natural abrasives	3,673	2,590	3,196	3,455	536	382
Carborundum	202	169	390	107	226	228
Grinding stones, etc. ..	219	201	187	262	322	265
Malaysia (West)—						
Natural abrasives	n.a.	n.a.	n.a.	n.a.	109	134

*See also Aluminium, Diamonds and Diatomaceous earth. (b) Figures for years 1961 to 1963 relate to Rhodesia and Nyasaland.

IMPORTS OF ABRASIVES (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES (cont.)						
Malaysia (West) (cont.)—						
Grinding and polishing wheels, etc.	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	304	288
Sarawak—						
Grinding and polishing wheels, etc.	38	44	32	35	46	23
Singapore—						
Grinding and polishing wheels	228	153	124	200	155	136
Australia (b)—						
Pumice	1,046	1,134	1,128	920	1,012	628
Grindstones, etc.	228	150	254	293	386	(c) 174
Garnet grains	50	43	44	105	128	92
Tripoli	465	338	453	729	536	499
Other natural abrasives	457	523	590	1,129	1,520	(c) 522
Artificial abrasives	4,202	2,648	4,586	4,547	5,611	4,063
New Zealand—						
Pumice	—	—	(b) 47	(b) 53	(b) 56	(b) 78
Corundum, emery, etc.	20	8	(b) 3	(b) 8	(b) 3	(b) 7
Other natural abrasives (£N.Z.) (£4,169)	(£4,169)	(£2,587)	r (b) —	r (b) —	(b) —	<i>n.a.</i>
Carborundum, etc.	74	74	(b) —	(b) —	(b) —	(b) 17
Grindstones, etc. (£N.Z.)	r(£119,968)	(£126,446)	b(£157,693)	b(£181,464)	b(£216,223)	b(£234,465)
Irish Republic—						
Grindstones, oilstones, etc.	171	178	178	219	233	239
OTHER COUNTRIES						
Austria—						
Pumice	835	400	350	698	643	722
Other natural abrasives	107	135	114	136	106	122
Carborundum	1,191	1,096	1,466	1,589	1,778	1,843
Corundum, artificial	2,400	2,392	2,565	3,390	3,338	4,070
Grindstones	146	141	93	95	116	111
Millstones						
Belgium-Luxemburg						
E.U.—						
Pumice	205,028	173,635	206,435	187,555	206,788	168,845
Other natural abrasives	1,491	825	855	889	711	801
Corundum, artificial	1,604	1,824	2,050	2,632	3,110	3,211
Millstones, grindstones, etc. (a)	1,170	1,186	1,191	1,447	1,408	1,436
Carborundum	1,918	1,943	1,729	2,929	2,526	2,905
Denmark—						
Emery, etc.	416	505	520	673	721	662
Pumice	2,655	2,927	2,177	3,459	2,371	4,286
Carborundum	286	293	289	391	440	313
Corundum, artificial	431	383	407	439	439	424
Millstones and grindstones	83	127	45	73	49	60
Finland—						
Emery, pumice, etc.	434	381	342	377	295	267
Carborundum	493	729	599	207	602	589
Millstones, grindstones, etc. (a)	1,463	1,416	1,146	1,397	1,399	1,355
France—						
Emery and corundum	1,854	1,581	2,522	1,372	4,857	1,100
Pumice	23,726	30,387	28,384	36,897	36,100	38,723
Other natural abrasives	303	256	3,534	3,646	2,135	2,682

(a) Including artificial.

(b) Years ended June 30 of that stated.

(c) Owing to reclassification not strictly comparable with earlier years.

IMPORTS OF ABRASIVES (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
France (cont.)—						
Millstones and grindstones	233	386	} 2,569	2,998	3,478	4,087
Whetstones	60	44				
Carborundum	4,065	4,292				
Corundum, artificial	1,110	1,664				
Germany (Federal)—						
Emery and corundum	866	1,099	762	1,182	538	(b)
Pumice, etc.	8,310	6,582	186,688	203,795	108,748	75,538
Other natural abrasives	1,415	1,771	1,475	1,737	2,512	3,416
Millstones, grindstones, etc. (a)	582	341	300	391	2,242	6,834
Carborundum	4,868	4,033	4,424	5,144	6,401	7,994
Corundum, artificial	2,117	2,587	3,290	3,707	4,546	6,636
Greece—						
Millstones, grindstones, etc.	r 200	r 164	r 194	r 129	261	188
Other abrasives	r 7	r 22	r 48	r 73	40	n.a.
Iceland—						
Millstones, etc.	14	16	10	11	13	14
Italy—						
Emery and corundum	r 2,387	r 2,005	1,898	1,556	1,316	1,469
Other natural abrasives	r 1,288	r 1,233	1,358	1,397	1,282	1,797
Millstones	} r 2,507	r 2,658	2,996	r 2,519	2,489	3,373
Grindstones						
Whetstones						
Corundum, artificial	4,811	r 5,140	5,806	5,577	3,829	6,887
Carborundum	2,667	4,144	3,081	r 1,869	1,800	2,253
Netherlands—						
Emery	4,193	5,593	4,993	4,803	5,417	(b)
Pumice and tripoli	468,332	433,504	465,654	435,652	421,349	377,455
Other natural abrasives	614	463	482	404	426	7,883
Millstones and grindstones (a)	1,311	1,318	1,216	1,417	1,642	1,680
Corundum, artificial	2,246	2,025	2,057	2,714	3,160	2,849
Carborundum	523	610	544	695	714	679
Norway—						
Natural abrasives	436	388	381	344	332	392
Whetstones	2	8	8	4	7	5
Carborundum	31	14	966	16	76	84
Corundum, artificial	626	525	513	698	609	928
Portugal—						
Emery, etc.	351	186	331	280	420	355
Pumice	176	255	211	360	356	245
Millstones etc.	64	44	170	192	220	215
Spain—						
Emery powder	n.a.	n.a.	n.a.	138	664	417
Corundum, artificial	280	314	453	776	1,232	2,172
Carborundum	572	788	904	871	1,138	1,380
Sweden—						
Emery	635	405	589	546	630	359
Pumice	} 361	700	716	643	516	944
Other natural abrasives						
Carborundum, etc.						
Corundum, artificial	2,947	3,891	3,492	3,868	4,495	5,392
Grindstones, etc.	5,390	4,329	3,623	4,453	5,671	5,397
Millstones	121	99	73	63	80	31
Switzerland—						
Emery, crude	} 1,353	1,503	737	677	1,163	1,031
Carborundum, emery, etc., ground						

(a) Including artificial.

(b) Included with "other natural abrasives."

IMPORTS OF ABRASIVES (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Switzerland <i>(cont.)</i> —						
Pumice (c)	20,467	18,194	14,794	7,544	2,375	2,744
Millstones	} 107	82	72	98	76	71
Grindstones		19	22	11	14	11
Whetstones		3,751	4,250	3,413	4,004	4,882	4,678
Corundum, artificial						
Yugoslavia—						
Natural abrasives	1,091	884	766	422	267	456
Millstones, grindstones, etc.	348	245	328	350	486	858
Corundum, artificial	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	513	497
Carborundum	670	613	596	1,024	844	951
Egypt—						
Natural abrasives	1,726	1,647	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Millstones	} 2	66	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Grindstones		2	93	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Whetstones		4				
Malagasy Republic—						
Natural abrasives	15	17	18	14	13	12
Morocco—						
Millstones and grindstones	50	65	144	148	132	<i>n.a.</i>
Natural abrasives	96	8	27	23	12	<i>n.a.</i>
South Africa—						
Emery	37	87	164	} 3,526	1,737	4,821
Pumice	71	105	126			
Other abrasives	(£192,400)	(£270,138)	(£271,772)			
Abrasive wheels and discs	(£130,512)	(£154,988)	(£102,890)	} 181	281	176
Grindstones, millstones, etc.	(£4,708)	(£4,400)	(£7,760)			
Sudan—						
Natural abrasives	<i>n.a.</i>	<i>n.a.</i>	167	152	34	51
Grindstones	64	72	221	172	221	298
Tunisia—						
Pumice	252	42	11	46	29	<i>n.a.</i>
Millstones and grindstones (a)	79	33	31	71	33	73
Costa Rica—						
Pumice, emery and corundum	3	9	45	6	10	13
Guatemala—						
Natural abrasives	3	3	11	6	5	6
Mexico—						
Emery and carborundum	1,125	1,018	990	1,626	(b) 302	(b) 669
Pumice	9	67	9	156	18	17
Millstones and grindstones	887	428	121	306	362	297
United States—						
Corundum, crude	2,139	2,170	1,817	1,758	1,696	2,700
Emery, crude	1,000	2,000	500	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Corundum and emery, ground	15	780	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Pumice, crude	6,168	6,371	2,171	4,910	8,889	8,386
do. manufactured	3,628	2,843	2,019	2,761	3,152	3,848
Tripoli, etc.	—	<i>n.a.</i>	20	<i>n.a.</i>	8	<i>n.a.</i>
Crude artificial abrasives	176,784	185,657	182,353	198,260	226,767	260,000
Argentina—						
Emery	2,359	1,447	1,098	2,389	3,426	<i>n.a.</i>
Grindstones	18	15	14	45	14	24
Brazil—						
Emery, pumice, etc.	101	71	31	52	55	463
Carborundum	470	176	155	149	172	246

(a) Including artificial.
(b) Emery only.

(c) May include pumice for use other than as an abrasive.

IMPORTS OF ABRASIVES (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Brazil <i>(cont.)</i> —						
Millstones, grindstones, etc.	158	98	77	85	49	130
Chile—						
Emery	121	17	166	<i>n.a.</i>	84	<i>n.a.</i>
Carborundum	—	—	4	<i>n.a.</i>	16	<i>n.a.</i>
Millstones, grindstones, etc.	318	220	371	<i>n.a.</i>	460	<i>n.a.</i>
Colombia—						
Emery and pumice	35	69	102	75	105	109
Tripoli and other natural abrasives	49	30	46	31	31	21
Millstones and grindstones (a)	196	224	239	253	193	114
Corundum, artificial	31	68	99	255	104	176
Peru—						
Emery and pumice	38	47	53	53	53	<i>n.a.</i>
Millstones, grindstones, etc. (a)	109	160	112	125	284	<i>n.a.</i>
Venezuela—						
Natural abrasives	99	77	35	138	164	193
Carborundum	41	22	16	9	49	33
Burma—						
Natural abrasives	55	194	<i>n.a.</i>	—	—	—
Indonesia—						
Emery	66	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Other natural abrasives	186	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Iran (b)—						
Emery, etc.	10	4	<i>n.a.</i>	16	48	53
Iraq—						
Emery, pumice, etc.	164	5	1	4	<i>n.a.</i>	<i>n.a.</i>
Grindstones, whetstones, etc.	178	123	209	166	<i>n.a.</i>	<i>n.a.</i>
Israel—						
Natural abrasives	54	193	105	112	1,651	107
Japan—						
Emery	194	126	89	60	38	49
Other natural abrasives	594	893	1,099	1,445	1,337	1,796
Grindstones, etc.	10	12	18	12	110	89
Artificial abrasives	1,772	1,363	743	1,283	1,224	970
Lebanon—						
Emery	1	2	10	6	1	3,513
Pumice, etc.	635	426	767	1,007	23	6,167
Millstones	106	126	155	137	204	67
Philippine Republic—						
Emery	313	159	178	243	247	<i>n.a.</i>
Pumice	4	8	24	19	16	<i>n.a.</i>
Other natural abrasives	70	19	30	55	79	<i>n.a.</i>
Thailand—						
Natural abrasives	607	647	624	549	892	854
Turkey—						
Carborundum	98	122	135	17	26	58
Millstones and grindstones (a)	648	511	443	313	534	684

(a) Including artificial.

(b) Years ended March 20 following that stated.

ALUMINIUM
(Including Bauxite and Cryolite)
PRODUCTION OF BAUXITE

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Ghana	200,700	239,500	309,400	246,400	304,200	346,800
Sierra Leone	—	—	(a) 19,635	128,418	204,000	270,826
Rhodesia	—	500	1,812	2,438	2,000	n.a.
Jamaica (b)	6,663,120	7,495,122	6,903,115	7,811,188	8,514,365	8,918,378
Guyana (c)	2,373,615	2,718,997	2,129,046	2,477,628	2,872,588	3,304,701
India	468,389	563,859	559,643	582,862	695,000	734,000
Malaysia (West)	409,881	349,419	444,047	463,829	843,172	940,447
Pakistan (f)	1,411	—	—	—	—	—
Sarawak	253,389	225,459	155,243	158,090	135,163	—
Australia	15,976	29,547	354,206	783,900	1,167,671	1,789,231
TOTAL ..	10,386,500	11,622,400	10,876,100	12,654,800	14,738,000	16,310,000
OTHER COUNTRIES						
Austria	17,729	16,693	17,548	3,649	—	—
France	2,189,765	2,159,681	1,996,873	2,394,308	2,619,764	2,766,164
Germany (Federal)	4,165	4,583	4,263	4,090	3,832	3,609
Greece	1,102,000	1,266,499	1,256,342	1,030,000	1,237,000	1,326,000
Hungary	1,344,478	1,444,695	1,341,140	1,453,958	1,454,000	1,406,000
Italy	322,012	304,547	265,400	r 247,814	240,571	238,339
Roumania	68,000	30,000	10,000	7,000	12,000	(d) 15,000
Spain	5,506	5,951	11,632	6,665	n.a.	n.a.
U.S.S.R. (e)	4,000,000	4,200,000	4,300,000	4,300,000	4,600,000	4,700,000
Yugoslavia	1,213,000	1,311,000	1,265,000	1,273,000	1,549,000	1,857,000
Guinea	1,738,775	1,445,000	1,638,000	1,652,000	1,840,000	3,149,833
Mozambique	4,597	6,118	6,493	6,179	5,593	n.a.
Dominican Republic (b)	738,661	664,778	712,050	800,662	878,921	805,463
Haiti (b)	263,000	r 434,668	327,000	r 430,256	376,546	355,718
United States (b)	1,228,000	1,369,000	1,525,000	1,601,000	1,654,000	1,796,000
Brazil	109,635	187,696	166,957	129,571	153,505	245,984
Surinam	3,398,000	3,245,000	3,384,000	3,929,875	4,291,000	4,513,000
Indonesia	413,225	453,916	485,323	637,574	677,389	690,150
Turkey	—	—	—	4,398	10,121	31,770
TOTAL (d) ..	18,100,000	18,500,000	18,700,000	r 19,900,000	21,600,000	23,900,000
WORLD'S TOTAL (d) ..	28,500,000	30,100,000	29,600,000	r 32,600,000	36,300,000	40,200,000

Bauxite is known to have been produced in China.

(a) Exports.

(b) Dried bauxite equivalent.

(c) Dried bauxite equivalent. Shipments of dried and calcined ore were as follows (long tons):

	1961	1962	1963	1964	1965	1966
Metallurgical	1,089,071	1,341,846	897,922	740,244	1,123,848	1,306,804
Chemical	142,387	129,256	76,248	100,321	133,781	204,098
Refractory	203,442	219,410	236,065	326,180	361,714	363,258
Abrasive	168,923	146,975	124,032	142,432	124,239	133,921

Exports of calcined ore are shown on page 13.

(d) Estimated.

(e) United States Bureau of Mines' estimate.

(f) West Pakistan.

PRODUCTION (EXPORTS) OF CRYOLITE IN GREENLAND

Year	Long tons
1961	41,115
1962	40,296
1963	66,076
1964	50,078
1965	58,971
1966	63,037

PRODUCTION OF ALUMINIUM

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom ..	32,294	34,030	30,574	31,711	35,635	36,548
Canada	592,119	616,337	642,312	r 752,357	741,522	805,352
India	18,092	34,653	54,358	r 53,600	58,600	82,000
Australia	13,204	16,152	41,263	78,744	86,379	90,560
TOTAL	655,709	701,172	768,507	r 916,400	922,100	1,014,000
OTHER COUNTRIES						
Austria	66,585	72,665	75,256	64,716	76,410	76,618
Czechoslovakia	49,200	(b) 60,000	(b) 60,000	(b) 60,000	(b) 61,000	(b) 61,000
France	275,042	290,436	293,653	310,999	335,150	357,770
Germany—						
Federal	169,833	175,016	205,485	216,445	234,433	240,035
East (a)	40,000	37,000	40,000	45,000	50,000	50,000
Greece	—	—	—	—	—	35,000
Hungary	50,256	51,899	54,621	55,976	57,180	59,541
Italy	82,037	81,599	89,984	r 113,769	122,018	125,629
Netherlands	—	—	—	—	—	20,000
Norway	168,847	202,626	212,687	256,897	274,891	318,580
Poland	46,800	47,300	45,900	47,000	46,600	54,300
Roumania	—	—	—	—	22,435	46,111
Spain	37,053	41,030	44,770	48,860	50,589	59,838
Sweden	15,592	15,696	16,800	31,600	29,100	31,000
Switzerland	41,543	48,787	59,161	63,220	66,089	67,640
U.S.S.R. (b)	880,000	890,000	950,000	1,000,000	1,260,000	1,300,000
Yugoslavia	26,974	27,538	r 34,845	r 34,756	38,160	41,358
Cameroun	43,010	51,423	52,077	51,033	50,000	47,400
Mexico	—	—	5,400	r 17,399	18,787	20,572
United States	1,699,742	1,891,029	2,064,757	2,279,238	2,459,355	2,650,327
Brazil	19,713	19,823	17,332	26,219	29,927	26,461
China (b)	100,000	100,000	100,000	100,000	100,000	100,000
Formosa	8,874	10,835	11,740	19,066	18,613	16,945
Japan	150,104	166,984	218,566	259,655	287,455	329,837
TOTAL	4,000,000	4,300,000	4,700,000	5,100,000	5,700,000	6,100,000
WORLD'S TOTAL	4,600,000	5,000,000	5,400,000	6,000,000	6,600,000	7,100,000

In addition secondary metal recovered in certain countries was as follows (long tons):

	1961	1962	1963	1964	1965	1966
United Kingdom ..	131,024	141,180	161,077	183,113	185,801	195,135
France	43,000	46,000	49,000	50,000	44,000	59,000
Germany (Federal) ..	133,311	140,486	153,929	185,583	199,716	193,632
Italy	14,554	17,653	20,511	34,455	n.a.	n.a.
United States	303,791	412,282	451,421	492,581	572,070	618,778
Japan	68,400	70,400	89,400	102,800	116,000	137,200

(a) Estimated.

(b) United States Bureau of Mines' estimate.

EXPORTS OF ALUMINIUM, ETC.*

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Alumina and hydrate ..	23,829	15,825	19,458	17,138	20,915	13,660
Unwrought (a) ..	5,408	5,379	7,444	6,738	23,931	26,017
Scrap (a) ..	2,800	4,232	2,305	1,561	6,790	7,489
Semi-manufactures (a)	53,165	59,178	54,999	47,081	44,764	47,402
of which—Foil ..	6,096	6,473	6,617	7,273	7,153	7,212
Powder ..	510	466	289	427	600	840
Aluminium sulphates ..	33,486	27,807	24,352	36,651	38,317	19,167
Ghana—						
Bauxite ..	196,072	286,798	207,423	264,458	282,887	306,098
Sierra Leone—						
Bauxite ..	—	—	19,635	126,553	173,472	240,488
Canada—						
Alumina ..	16,853	3,458	2,361	4,501	6,937	11,656
Unwrought (a) ..	434,857	514,470	567,131	560,707	631,707	639,627
Scrap ..	26,285	27,005	38,880	29,292	34,746	40,867
Semi-manufactures (a)	20,639	20,630	24,187	16,458	23,590	30,732
of which—Foil ..	131	413	1,080	338	389	262
Jamaica—						
Bauxite (b) ..	4,974,802	5,986,678	5,161,568	5,967,210	6,784,459	7,019,615
Alumina ..	703,483	627,645	725,613	768,085	720,599	790,690
Guyana—						
Bauxite, dried ..	1,235,556	1,465,266	(d) 974,170	585,452	1,263,490	1,530,893
do. calcined ..	370,761	366,277	(d) 358,366	733,854	494,374	492,496
Alumina ..	120,161	214,639	(d) 221,993	245,195	275,211	296,953
Hong Kong—						
Scrap ..	797	638	790	992	1,456	1,533
Semi-manufactures (a)	1,817	1,753	1,665	2,803	2,292	3,523
India—						
Bauxite ..	97,725	245,186	133,035	92,932	61,840	76,705
Unwrought (a) (c) ..	—	—	7,204	534	2	396
Semi-manufactures (a)(c)	19	15	76	290	1,112	1,075
Aluminium sulphate (c)	62	1,649	5,819	11,815	7,336	157
Malaysia (West)—						
Bauxite ..	284,357	314,858	450,463	547,945	670,894	1,007,158
Sarawak—						
Bauxite ..	256,442	198,698	172,181	165,903	164,609	—
Singapore—						
Semi-manufactures (a)	950	1,317	1,326	725	762	889
of which—Foil ..	84	286	334	159	113	191
Aluminium sulphates ..	3,438	3,328	3,566	3,014	4,504	6,956
Australia—						
Bauxite ..	30,489	6,470	143,339	405,825	610,574	n.a.
Unwrought (a) ..	7	40	5,323	15,128	21,207	16,210
Scrap (a) ..	564	355	250	405	1,073	1,454
Semi-manufactures (a)	345	248	253	563	2,152	6,413
OTHER COUNTRIES						
Austria—						
Bauxite ..	7,671	4,969	6,747	2,350	—	—
Unwrought (a) ..	27,858	41,144	34,829	33,327	31,466	36,498
Scrap ..	3,537	4,299	4,137	4,210	4,369	5,365
Semi-manufactures (a)	14,323	15,734	19,204	21,725	21,346	26,166
of which—Foil ..	2,488	2,768	2,831	2,958	3,796	3,545
Powder ..	828	962	868	1,126	913	2,422

*In these tables the description "unwrought" aluminium corresponds to item 684.1 of the Standard International Trade Classification (revised) and comprises ingots, blocks, unwrought bars, etc. "Semi-manufactures" corresponds to S.I.T.C. (revised) 684.2 and includes foil and powder as well as wrought bars, rods, wire, sheets, tubes, pipes, etc.

(a) Including alloys.

(c) Years ended March 31 following that stated.

(b) Estimated dry equivalent; shipments contain 8–14% free moisture.

(d) Provisional.

EXPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Belgium-Luxemburg—						
Bauxite	—	—	73	14	315	—
Cryolite	118	134	88	141	140	489
Alumina and hydrate	8	2	1	3	8	13
Unwrought	105	158	113	334	1,201	1,633
do. alloys	496	637	700	723	1,120	1,493
Scrap	1,998	2,700	5,040	6,501	8,362	8,284
Semi-manufactures (a)	51,317	57,674	69,050	83,025	97,230	121,559
Aluminium sulphates	12,329	12,509	13,962	14,511	15,030	15,015
Denmark—						
Refined cryolite	24,578	25,008	24,861	23,988	25,732	26,381
Unwrought	10	5	130	1	—	146
do. alloys	1,398	1,427	1,884	1,880	3,019	2,513
Scrap	851	697	454	329	443	1,040
Semi-manufactures (a)	790	705	729	683	895	1,151
of which—Foil	193	205	178	192	223	218
Finland—						
Unwrought	75	101	76	788	293	806
Semi-manufactures	571	593	1,041	1,182	1,093	1,256
of which—Foil	456	555	982	1,037	988	1,158
France—						
Bauxite	252,264	262,418	202,649	196,481	198,596	275,748
Cryolite	2	117	87	39	547	11
Alumina	136,148	165,097	168,100	139,557	105,030	141,902
do. hydrate	15,802	13,243	12,905	14,555	24,616	13,691
Unwrought	104,775	84,254	82,513	85,409	122,687	110,682
do. alloys	17,076	19,274	40,209	37,778	57,127	57,661
Scrap (a)	2,262	7,202	12,174	11,246	6,181	11,657
Semi-manufactures (a)	26,296	28,715	32,713	51,624	45,103	57,208
of which—Foil	5,439	7,179	8,106	7,876	8,382	8,453
Powder	183	90	166	256	423	810
Aluminium sulphates	6,828	7,824	10,992	10,956	11,690	9,903
Germany (Federal)—						
Bauxite and cryolite	458	622	732	833	1,323	4,367
Alumina	72,706	65,059	70,378	74,200	77,448	90,674
do. hydrate	26,897	28,146	28,834	34,869	37,575	37,777
Unwrought	2,407	2,015	9,523	4,487	4,808	10,695
do. alloys	1,359	3,914	4,437	5,194	5,197	10,454
Scrap (a)	512	1,451	1,428	1,126	842	6,750
Semi-manufactures (a)	41,094	46,332	52,259	56,656	58,700	79,022
of which—Foil	15,857	16,773	19,853	22,503	26,392	31,143
Powder	1,445	1,397	1,391	1,686	2,135	2,376
Greece—						
Bauxite	1,033,511	886,665	1,100,000	1,046,324	1,131,921	1,150,820
Hungary—						
Bauxite	689,509	707,661	656,409	749,069	555,000	611,000
Alumina	142,666	124,401	132,300	154,149	191,000	172,000
Unwrought	8,582	6,427	10,373	11,998	19,278	16,087
Semi-manufactures	5,289	5,449	5,007	4,839	5,696	6,834
Italy—						
Bauxite	—	—	915	r 3,145	516	1,589
Alumina	29,028	27,982	20,165	5,305	8,456	6,994
do. hydrate	r 42	2,715	2,647	r 2,993	2,966	2,515
Unwrought	17	131	248	r 18,875	31,536	20,317
do. alloys	70	—	—	—	—	—
Semi-manufactures (a)	r 6,692	r 7,138	8,224	r 17,209	22,644	26,640
of which—Foil	r 850	739	902	r 1,207	1,736	3,294
Aluminium sulphates	10,530	10,388	8,869	126	2,506	3,654
Netherlands—						
Bauxite	224	635	830	147	2	375
Unwrought (a)	2,393	772	267	741	1,003	15,901
Scrap (a)	2,167	4,777	7,279	8,843	9,318	11,549

(a) Including alloys.

EXPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Netherlands <i>(cont.)</i> —						
Semi-manufactures (a)	10,074	10,605	11,723	13,499	15,605	17,188
of which— <i>Foil</i> ..	3,232	2,992	3,430	3,695	3,592	4,242
<i>Powder</i> ..	81	2	3	2	1	26
Aluminium sulphates ..	24	9	6	10	192	18
Norway—						
Alumina ..	2	24	—	—	4	—
Unwrought ..	138,658	160,002	195,491	248,852	227,262	316,031
do. alloys ..	5,327	8,976	8,722	11,768	11,303	26,480
Scrap ..	291	423	636	251	618	1,821
Semi-manufactures (a)	4,354	4,446	4,171	4,595	4,995	7,574
of which— <i>Foil</i> ..	45	151	146	189	263	236
<i>Powder</i> ..	27	37	129	95	82	84
Roumania—						
Bauxite ..	32,500	14,800	7,874	—	—	—
Spain—						
Unwrought ..	3,934	10,439	10,130	8,105	—	—
Semi-manufactures (a)	4,202	13,943	5,308	2,603	1,989	3,161
Sweden—						
Unwrought (a) ..	82	241	501	2,114	1,764	587
Scrap ..	686	822	802	887	598	719
Semi-manufactures (a)	5,919	7,382	9,959	11,380	8,212	13,769
of which— <i>Powder</i> ..	228	344	404	365	421	447
Aluminium sulphates ..	9,181	9,499	11,463	8,374	6,814	4,530
Switzerland—						
Alumina and hydrate	32	58	60	118	110	102
Unwrought and scrap ..	5,983	8,428	17,891	18,864	19,111	13,176
do. alloys ..	14,872	15,040	16,842	19,909	22,528	7,138
Semi-manufactures (a)						
U.S.S.R.—						
Cryolite ..	3,100	2,800	3,000	3,400	3,200	3,800
Unwrought ..	84,600	113,900	120,200	172,400	225,400	251,700
Semi-manufactures ..	8,956	21,062	25,294	33,561	41,400	53,900
Yugoslavia—						
Bauxite ..	915,107	899,523	981,512	1,062,639	932,672	1,455,887
Alumina and hydrate ..	14,000	13,959	13,058	13,700	11,419	12,831
Unwrought ..	—	—	930	1,141	1,169	1,646
Scrap ..	1,176	1,887	2,209	1,637	2,384	145
Semi-manufactures ..	11,745	12,456	13,966	18,201	21,321	17,841
Cameroun—						
Unwrought ..	45,416	50,125	51,459	47,956	45,377	n.a.
Guinea—						
Bauxite ..	346,024	n.a.	n.a.	164,017	240,188	n.a.
Alumina ..	384,663	450,425	479,000	n.a.	n.a.	512,000
Morocco—						
Scrap (a) ..	1,038	670	469	261	440	n.a.
Mozambique—						
Bauxite ..	4,082	5,424	5,760	7,249	5,880	5,535
South Africa—						
Semi-manufactures	n.a.	n.a.	n.a.	936	1,362	1,513
Tunisia—						
Unwrought and scrap	233	309	256	187	224	n.a.
Dominican Republic—						
Bauxite ..	r 855,561	855,465	931,966	909,028	1,121,380	(c) 793,000
Greenland—						
Cryolite ..	41,115	40,296	66,076	50,078	58,971	63,037
Haiti—						
Bauxite (b) ..	335,000	(c) 505,800	(c) 379,630	(c) 458,287	(c) 382,000	(c) 328,000

(a) Including alloys.

(b) Including shipments from stockpile built up during development period.

(c) United States imports.

EXPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
(cont.)						
United States—						
Alumina, etc.	150,683	258,561	203,196	293,542	146,830	296,127
Cryolite (b)	149	990	3,320	3,022	3,895	2,481
Unwrought (a)	115,054	134,997	147,625	186,702	147,849	168,071
Scrap (a)	73,219	58,513	63,429	61,263	34,417	43,451
Semi-manufactures	31,126	49,993	62,354	66,415	102,041	87,374
of which—Foil	1,515	2,220	1,636	1,487	2,762	2,761
Powder (Al content)	266	427	438	495	562	810
Aluminium sulphates	12,691	15,871	15,693	14,742	13,965	19,696
Argentina—						
Unwrought	n.a.	n.a.	1,729	1,295	134	8
Aluminium sulphates	n.a.	n.a.	13	50	34	39
Brazil—						
Bauxite	1,673	1,968	2,264	3,494	2,166	2,235
Surinam—						
Bauxite	3,350,000	3,202,900	3,427,146	3,921,312	4,299,917	4,500,000
Formosa—						
Unwrought (a)	2,403	2,585	3,377	7,093	5,645	3,747
Semi-manufactures (a)	1,251	1,483	2,326	3,225	2,691	2,819
Aluminium sulphates	n.a.	n.a.	n.a.	n.a.	522	240
Indonesia—						
Bauxite	414,083	389,111	n.a.	(c) 610,000	683,105	672,316
Israel—						
Scrap	35	258	699	855	801	889
Japan—						
Bauxite	n.a.	1,026	394	591	787	796
Cryolite	—	2	—	—	1	—
Alumina	102,222	94,900	99,856	102,100	92,427	106,623
do. hydrate	2,318	5,998	4,209	6,155	8,101	11,031
Unwrought	14	5,406	13,872	18,870	28,654	18,392
do. alloys	1	150	17	291	50	577
Semi-manufactures (a)	10,457	12,419	17,929	16,916	24,833	30,633
of which—Foil	2,265	3,365	2,495	2,809	3,296	4,212
Aluminium sulphates	12,640	12,340	17,749	14,582	12,228	14,587

(a) Including alloys.

(b) Including artificial.

(c) Imports into West Germany and Japan from Indonesia.

IMPORTS OF ALUMINIUM, ETC.*

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Bauxite, uncalcined ..	} e395,014	(e) 425,667	(e) 331,195	(e) 373,550	{ 437,941	454,068
do. calcined ..						
Cryolite	3,855	1,930	3,110	3,398	2,476	2,439
Alumina	4,672	5,001	4,884	8,603	9,591	6,856
Unwrought	195,549	197,670	203,978	255,164	236,815	259,029
do. alloys	40,336	52,885	62,814	70,203	79,748	81,436
Scrap (a)	5,712	8,437	8,992	12,010	23,479	15,981
Semi-manufactures (a)	21,084	21,744	26,142	26,166	23,893	28,261
of which—Foil ..	1,777	2,263	2,341	3,177	2,682	3,423
Malta—						
Semi-manufactures ..	(£35,054)	(£23,325)	(£49,060)	(£114,924)	(£60,373)	(£38,835)
Ghana—						
Unwrought (a)	2,604	924	191	78	283	207
Semi-manufactures (a)	2,081	3,303	7,207	1,122	5,909	7,068
Kenya—						
Unwrought (a)	1,209	1,235	1,743	761	22	n.a.
Semi-manufactures (a)	773	621	864	630	728	653
of which—Foil	183	194	174	176	184	179
Mauritius—						
Semi-manufactures (a)	136	227	285	345	324	277
Nigeria—						
Unwrought and semi-manufactures (a) ..	4,779	5,242	5,896	6,325	2,402	1,232
Rhodesia (b)—						
Semi-manufactures (a)	1,113	1,241	1,127	806	1,106	n.a.
of which—Foil	213	296	216	115	129	n.a.
Sierra Leone—						
Semi-manufactures (a)	316	89	123	29	62	168
Tanzania—						
Unwrought	—	—	231	2,217	1,272	3,349
Semi-manufactures (a)	170	163	190	932	757	341
Uganda—						
Semi-manufactures (a)	299	192	88	162	433	463
of which—Foil	87	94	55	113	97	112
Zambia—						
Semi-manufactures (a)	n.a.	n.a.	n.a.	184	346	340
Barbados—						
Semi-manufactures (a)	33	74	48	63	98	120
Jamaica—						
Semi-manufactures (a)	1,384	1,111	1,212	1,925	2,049	2,656
Canada—						
Bauxite	} 2,135,100	1,994,356	1,967,842	{ 1,563,668	1,827,745	2,254,078
Alumina						
Cryolite	3,601	4,562	4,336	(d) 2,163	(d) 2,161	(d) 3,260
Unwrought	567	3,441	1,731	3,568	6,200	15,110
Scrap	1,384	1,131	1,331	(a) 17,957	(a) 29,658	(a) 20,899
Semi-manufactures (a)						
(excluding Foil)	8,543	16,743	28,258	34,410	41,248	53,076
of which—Powder	60	109	147	250	807	797
Foil	n.a.	n.a.	n.a.	576	509	406
	(£441,451)	(£438,712)	(£474,136)	(£292,993)	(£256,904)	(£209,950)
Aluminium sulphates ..	4,318	2,934	3,072	2,484	1,755	2,104
Trinidad and Tobago—						
Semi-manufactures (a)	1,163	936	(c) 5,807	1,602	447	638
Aluminium sulphates ..	487	997	672	876	1,394	1,128
Guyana—						
Semi-manufactures (a)	264	253	n.a.	405	128	140
Aluminium sulphates ..	337	380	n.a.	—	499	347

*See footnote on p.13 concerning the descriptions "unwrought" aluminium and "semi-manufactures" used in these tables.

(a) Including alloys.

(c) Excess of re-exports.

(b) Figures for years 1961 to 1963 relate to Rhodesia and Nyasaland. (d) Natural cryolite only.

(e) Owing to reclassification figures may not be strictly comparable with those for 1965 onwards.

IMPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES—(cont.)						
Aden—						
Semi-manufactures (a)	245	233	10	386	296	208
Ceylon—						
Semi-manufactures (a)	2,515	2,882	2,984	3,801	2,859	2,409
of which—Foil.. ..	220	170	125	114	68	65
Cyprus—						
Semi-manufactures (a)	247	180	268	248	284	400
Hong Kong—						
Bauxite	(d) 2,391	315	300	633	437	63
Unwrought (a)	5,220	4,604	5,644	10,337	4,725	7,088
Scrap	14	11	42	20	41	81
Semi-manufactures (a)	1,789	2,204	3,055	3,820	3,946	3,669
of which—Foil.. ..	416	724	723	737	910	683
Aluminium sulphate ..	603	752	1,076	1,480	2,282	1,065
India (b)—						
Cryolite	3,918	2,636	2,390	2,414	3,051	1,152
Alumina	9,264	19,672	3,487	2,062	800	15,798
Unwrought	7,941	14,936	3,875	3,473	1,494	9,593
do. alloys	21	3	—	9	100	52
Scrap	64	—	—	10	44	—
Semi-manufactures (a)	17,194	22,555	20,412	19,094	12,711	22,697
of which—Foil.. ..	2,004	957	426	185	189	90
Powder	73	149	151	144	178	156
Aluminium sulphate ..	1	1	4	17	120	—
Malaysia (West)—						
Unwrought (a)	n.a.	n.a.	n.a.	n.a.	550	1,566
Semi-manufactures (a)	n.a.	n.a.	n.a.	n.a.	3,253	2,953
of which—Foil.. ..	n.a.	n.a.	n.a.	n.a.	736	804
Pakistan—						
Unwrought (a)	5,853	n.a.	5,064	22,363	n.a.	n.a.
Semi-manufactures (a)	5,446	n.a.	2,398	3,738	n.a.	n.a.
Aluminium sulphates ..	3,762	1,041	67	36	n.a.	n.a.
Sabah—						
Semi-manufactures (a)	63	75	86	148	173	130
Sarawak—						
Semi-manufactures (a)	130	95	124	283	325	340
Aluminium sulphates ..	192	195	131	329	484	1
Singapore—						
Bauxite	—	—	—	4	101	61,080
Alumina and hydrate ..	n.a.	350	565	423	1,644	3,293
Semi-manufactures (a)	1,923	2,400	5,349	2,747	2,997	3,108
of which—Foil.. ..	221	467	469	236	294	370
Aluminium sulphate ..	5,459	3,731	5,539	2,190	1,761	252
Australia—						
Bauxite	51,799	69,904	14,113	577	n.a.	n.a.
Cryolite	(e) 1,141	(e) 3,678	(e) 5,078	(e) 3,282	(e) 2,387	187
Alumina and hydrate (c)	692	259	49,237	65,427	64,927	51,074
Unwrought (a)	16,141	31,389	12,115	565	357	449
Scrap (a)	282	1,074	3,108	872	797	937
Semi-manufactures (a)	4,714	5,427	3,313	2,788	3,856	2,510
of which—Foil.. ..	2,002	2,101	1,212	1,063	1,433	702
Powder	396	250	205	297	440	257
New Zealand—						
Unwrought	2,086	5,024	(c) 5,148	(c) 6,633	(c) 8,937	(c) 7,872
Semi-manufactures (a)	4,078	2,548	(c) 2,779	(c) 2,732	(c) 2,537	(c) 2,924
of which—Foil.. ..	798	344	(c) 3	(c) 758	(c) 684	(c) 829
Irish Republic—						
Unwrought (a)	3,604	4,897	5,373	8,813	7,707	10,189
Semi-manufactures (a)	2,463	3,069	3,268	3,894	3,984	4,851
of which—Foil.. ..	416	483	644	677	796	841
Aluminium sulphates ..	3,524	3,588	3,276	2,011	3,539	3,288

(a) Including alloys.

(c) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

(d) Excess of re-exports.

(e) Including artificial.

IMPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
Austria—						
Bauxite	18,176	12,951	13,072	16,590	22,534	24,191
Cryolite	344	334	483	434	410	415
Alumina	155,118	135,829	149,223	139,606	163,750	151,498
do. hydrate	3,862	4,393	4,565	5,603	5,954	6,008
Unwrought (a)	138	804	655	2,011	1,381	2,463
Semi-manufactures (a)	1,467	1,886	2,722	4,378	6,913	7,683
Aluminium sulphates	1,652	1,658	1,868	1,793	1,734	2,141
Belgium-Luxemburg—						
Bauxite	4,991	5,425	3,200	5,071	7,129	9,546
Cryolite	118	134	88	141	140	136
Alumina	1,150	1,022	881	1,010	918	1,342
do. hydrate	7,899	8,377	9,344	11,022	10,023	11,738
Unwrought	56,511	52,470	67,242	81,764	79,287	106,061
do. alloys	12,030	14,754	20,408	29,091	35,884	44,080
Scrap	1,972	1,775	2,315	2,636	3,707	1,765
Semi-manufactures (a)	12,843	16,071	16,355	18,047	18,373	24,861
of which—Foil	3,601	3,523	3,343	3,941	3,813	3,473
Powder	332	572	266	192	415	533
Aluminium sulphates	1,333	544	137	133	131	229
Denmark—						
Bauxite	600	500	500	400	2,770	1,363
Crude cryolite	32,769	32,188	49,473	37,732	38,169	46,123
Unwrought	5,113	6,070	5,242	6,364	6,534	5,089
do. alloys	979	481	469	758	2,634	1,354
Scrap	713	377	1,215	921	1,253	1,075
Semi-manufactures (a)	8,196	9,992	11,395	14,735	13,985	14,467
of which—Foil	2,149	2,209	2,122	2,616	3,457	3,577
Powder	120	150	176	152	170	146
Aluminium sulphates	4,118	4,721	4,773	4,813	5,753	5,611
Finland—						
Alumina	74	86	36	89	56	54
do. hydrate	7,699	10,232	8,433	11,368	13,499	13,470
Unwrought (a)	5,496	6,706	3,995	6,238	8,113	11,788
Semi-manufactures (a)	10,965	11,276	10,821	13,141	12,189	13,702
of which—Foil	750	558	588	848	1,310	1,489
Powder	310	146	103	422	273	171
Aluminium sulphates	14,995	12,973	11,239	9,912	9,809	7,507
France—						
Bauxite	118,821	100,230	140,248	143,542	114,669	151,131
Cryolite	2,178	1,402	1,320	1,703	1,358	1,953
Alumina	133,818	191,842	124,720	65,979	19,332	20,072
do. hydrate	33	81	71	30	57	133
Unwrought	41,834	49,820	51,915	65,746	64,514	80,024
do. alloys	177	932	3,074	5,548	6,048	5,868
Scrap (a)	513	1,307	2,260	2,643	1,071	5,397
Semi-manufactures (a)	4,051	7,641	12,215	15,997	20,550	29,943
of which—Foil	2,028	3,780	5,336	6,493	7,187	8,805
Powder	61	160	207	854	605	855
Aluminium sulphates	3	2	20	40	2	1,030
Germany (Federal)—						
Bauxite	1,538,597	1,369,442	1,484,200	1,596,607	1,610,277	1,852,721
Cryolite	2,265	3,315	2,935	3,187	3,519	2,734
Alumina	27,303	34,071	48,880	52,717	56,816	50,743
do. hydrate	1,179	942	1,389	1,480	805	1,304
Unwrought	124,725	105,058	104,211	134,041	136,663	147,335
do. alloys	11,800	11,068	14,554	28,623	30,178	26,666
Scrap	45,188	41,274	43,240	55,918	57,736	50,045
Semi-manufactures (a)	11,614	12,423	18,150	28,387	32,152	37,917
of which—Foil	732	1,918	3,049	2,785	3,666	4,844
Powder	307	341	269	437	540	1,281
Germany (East)—						
Bauxite	258,707	281,425	322,072	322,002	246,156	285,549
Alumina	22,795	16,732	18,023	41,522	45,454	28,599

(a) Including alloys.

IMPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Greece—						
Alumina	49	186	450	816	445	<i>n.a.</i>
do. hydrate	440	826	683	469	882	<i>n.a.</i>
Unwrought	5,380	5,868	5,639	8,422	8,446	6,406
Semi-manufactures (a)	644	978	1,099	1,291	2,437	1,494
of which—Foil	509	736	905	896	746	434
Aluminium sulphates ..	504	249	79	1	249	209
Hungary—						
Cryolite	2,948	3,156	519	1,727	<i>n.a.</i>	<i>n.a.</i>
Unwrought	—	568	2,418	7,522	—	—
Iceland—						
Semi-manufactures	279	459	364	310	288	400
Italy—						
Bauxite	<i>r</i> 257,788	<i>r</i> 289,747	344,083	<i>r</i> 373,533	469,079	526,353
Cryolite	<i>r</i> 540	455	1,063	895	601	559
Alumina	<i>r</i> 1,043	4,444	8,643	<i>r</i> 4,543	1,978	29,549
do. hydrate	405	447	377	364	708	7,446
Unwrought	} 25,252	<i>r</i> 43,557	53,257	32,174	33,159	62,236
do. alloys						
Scrap	<i>r</i> 29,577	<i>r</i> 46,709	52,152	<i>r</i> 31,268	27,364	52,339
Semi-manufactures (a)	<i>r</i> 6,502	<i>r</i> 10,149	16,000	<i>r</i> 17,198	15,640	20,290
of which—Foil	<i>r</i> 2,844	<i>r</i> 3,099	4,577	<i>r</i> 3,640	3,193	4,810
Powder	128	<i>r</i> 123	157	<i>r</i> 206	168	143
Aluminium sulphates ..	<i>r</i> 155	<i>r</i> 152	783	178	1,360	4,332
Netherlands—						
Bauxite	4,839	1,674	10,204	4,262	21,347	34,745
Cryolite	206	268	380	207	141	1,533
Alumina	745	806	784	834	1,204	61,312
do. hydrate	6,849	7,035	6,902	8,077	9,224	9,428
Unwrought (a)	13,518	14,526	19,501	22,020	19,855	19,515
Scrap (a)	2,795	2,044	2,146	2,925	3,086	3,823
Semi-manufactures (a)	17,545	17,475	17,218	29,262	28,906	34,218
of which—Foil	3,865	4,019	4,093	4,818	5,425	5,880
Powder	179	127	98	126	160	148
Aluminium sulphates ..	9,113	8,664	10,684	11,438	12,433	13,074
Norway—						
Bauxite	29,502	37,797	24,480	29,560	28,792	32,056
Cryolite	2,763	1,862	3,239	2,613	4,226	4,442
Alumina	297,377	405,297	437,524	515,664	531,793	604,873
Unwrought	1,952	782	1,236	10,829	9,036	8,085
do. alloys	418	572	221	822	676	964
Scrap	402	507	170	56	31	571
Semi-manufactures (a)	6,238	7,760	8,714	9,952	6,926	10,565
of which—Foil	254	443	407	495	535	648
Powder	185	229	180	174	208	123
Aluminium sulphates ..	12,103	10,868	11,633	9,989	4,328	1,441
Poland—						
Bauxite	59,200	(b) 41,000	59,200	85,700	113,973	113,687
Cryolite	<i>n.a.</i>	<i>n.a.</i>	1,086	1,616	1,460	4,127
Alumina	86,000	107,000	87,500	91,800	84,700	118,136
Unwrought	5,873	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Portugal—						
Cryolite	17	22	39	30	45	32
Unwrought (a)	1,877	1,433	1,062	733	1,157	836
Semi-manufactures (a)	3,685	3,638	4,880	6,293	7,195	8,014
of which—Powder	88	74	76	78	79	101
Aluminium sulphates ..	2,880	2,752	2,771	4,177	3,704	4,723
Spain—						
Bauxite	39,587	46,088	64,668	52,285	83,890	76,327
Cryolite	778	601	246	418	645	1,143
Alumina and hydrate ..	82,635	89,678	90,532	99,541	113,690	137,219
Unwrought and scrap ..	4,198	8,307	10,483	9,989	16,798	25,736
Semi-manufactures (a)	1,116	1,849	3,620	6,421	7,907	11,418
of which—Powder	14	21	24	27	53	55

(a) Including alloys.

(b) Exports to Poland from Hungary.

IMPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Sweden—						
Bauxite	25,281	23,850	13,572	30,856	22,625	26,770
Cryolite	758	924	493	1,190	1,159	292
Alumina and hydrate ..	24,028	39,875	38,497	67,204	69,833	47,162
Unwrought	19,754	25,580	29,659	17,324	17,559	31,899
do. alloys	3,889	4,752	6,620	7,550	9,262	8,562
Scrap	176	309	318	112	28	235
Semi-manufactures (a)	13,127	13,893	14,632	19,831	18,727	21,825
of which—Foil	2,237	2,105	2,059	2,929	3,008	4,216
Powder	382	342	268	240	381	414
Aluminium sulphates ..	4,339	5,315	4,571	10,370	4,817	6,489
Switzerland—						
Bauxite	2,677	1,348	1,440	2,553	2,871	1,954
Cryolite	1,043	1,217	825	226	155	507
Alumina	91,066	105,424	122,805	118,767	134,225	132,545
Unwrought and scrap (a)	10,336	10,937	4,489	5,871	12,055	13,176
Semi-manufactures (a)	6,946	7,622	8,708	8,029	6,769	7,138
Aluminium sulphates ..	4,152	4,166	3,862	3,926	4,126	4,799
U.S.S.R.—						
Bauxite	(b) 447,800	(b) 303,400	(b) 434,300	(b) 442,200	(b) 473,400	(c) 774,800
Semi-manufactures ..	4,133	3,740	6,299	5,512	7,200	600
Yugoslavia—						
Bauxite	1,891	2,681	3,029	5,442	3,368	6,983
Cryolite	344	749	30	358	n.a.	n.a.
Alumina and hydrate ..	8	349	582	2,638	61	67
Unwrought	10,082	10,522	6,629	15,612	19,476	25,707
Semi-manufactures (a)	563	581	1,036	1,103	1,161	1,188
of which—Foil	181	369	778	393	253	824
Angola—						
Semi-manufactures ..	398	323	430	643	856	695
Aluminium sulphates ..	924	403	381	1,032	1,207	n.a.
Cameroun—						
Alumina	102,753	83,344	123,021	92,550	83,637	n.a.
Egypt—						
Unwrought and scrap ..	1,216	2,106	3,849	4,717	4,881	8,196
Semi-manufactures ..	1,522	1,339	966	884	1,675	4,760
of which—Foil	467	602	681	415	593	258
Aluminium sulphates ..	n.a.	21,591	n.a.	n.a.	n.a.	n.a.
Malagasy Republic—						
Aluminium sulphates	198	255	320	281	271	276
Morocco—						
Bauxite	—	3,185	2,513	907	2,462	n.a.
Alumina and hydrate ..	70	50	120	n.a.	119	n.a.
Semi-manufactures (a)	1,634	1,691	1,749	1,864	1,584	n.a.
of which—Foil	312	280	456	320	243	n.a.
Powder	55	57	75	51	60	n.a.
Aluminium sulphates ..	1,617	1,772	1,443	1,346	1,412	n.a.
Mozambique—						
Semi-manufactures (a)	201	209	255	275	384	465
South Africa—						
Bauxite	n.a.	n.a.	n.a.	8,504	7,641	} 15,438
Cryolite	n.a.	n.a.	n.a.	71	76	
Alumina and hydrate ..	n.a.	n.a.	n.a.	284	732	559
Unwrought	10,199	13,802	16,487	16,659	20,052	26,907
Semi-manufactures (a)	1,762	2,670	4,607	7,823	8,262	9,225
of which—Foil	520	506	572	640	667	205
Powder	59	51	45	150	20	31
Aluminium sulphates ..	3,618	2,990	3,535	n.a.	n.a.	n.a.
Sudan—						
Semi-manufactures (a)	185	460	653	888	862	1,193
Aluminium sulphates ..	n.a.	n.a.	970	1,134	507	809

(a) Including alloys.

(b) Imports from Greece.

(c) Imports from Greece and Yugoslavia.

IMPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
(cont.)						
Tunisia—						
Unwrought and scrap (a)	105	3	1	—	22	16
Semi-manufactures ..	118	231	374	394	506	394
Costa Rica—						
Semi-manufactures (a)	332	395	510	670	764	794
Honduras—						
Semi-manufactures ..	89	107	150	230	221	484
Mexico—						
Bauxite, calcined ..	8,808	7,247	5,860	4,801	14,745	9,732
Alumina and hydrate ..	3,609	3,820	23,384	36,761	48,697	46,790
Unwrought	10,152	15,663	8,928	50	529	117
Semi-manufactures ..	574	1,999	14,414	6,883	4,379	1,164
Aluminium sulphates ..	706	579	1,077	831	2	3
Nicaragua—						
Semi-manufactures ..	167	250	271	282	617	745
Salvador—						
Semi-manufactures (a)	273	224	51	356	426	882
United States—						
Bauxite, crude dried ..	9,206,000	10,575,000	9,170,000	11,291,644	12,701,568	12,763,157
do. calcined	70,360	120,150	87,951	188,970	215,989	204,173
Cryolite	12,334	11,136	24,031	21,664	21,438	28,263
Alumina and hydrate ..	168,948	157,670	170,128	227,961	202,303	42,400
Unwrought (a)	177,879	277,638	371,132	350,788	468,542	466,060
Scrap	5,359	5,800	8,309	7,279	24,133	30,015
Semi-manufactures ..	48,448	57,364	41,125	51,431	61,685	113,890
of which—Foil (b) ..	4,421	4,518	4,301	4,619	n.a.	2,490
Aluminium sulphates ..	4,396	5,077	3,698	n.a.	7,362	n.a.
Argentina—						
Bauxite	39,530	26,051	4,225	30,781	28,954	42,873
Ingots and bars	28,776	15,252	14,798	33,107	35,814	36,356
Brazil—						
Cryolite	1,018	590	555	962	988	1,076
Alumina	30	4,404	562	39	1,018	576
do. hydrate	714	808	497	460	391	582
Unwrought (a)	18,052	19,199	25,408	18,256	21,499	38,916
Semi-manufactures (a)	237	278	549	250	387	1,342
of which—Foil	29	76	92	98	114	242
Powder	24	27	32	16	77	176
Aluminium sulphates ..	50	2	1	—	1	6
Chile—						
Unwrought	1,386	1,253	3,043	n.a.	3,099	n.a.
Bars, sheets and alloys ..	290	435	277	n.a.	211	n.a.
Aluminium sulphates ..	—	—	1	n.a.	—	n.a.
Colombia—						
Bauxite	4,453	5,986	7,087	4,413	9,024	8,841
Alumina and hydrates ..	423	271	99	92	155	206
Unwrought (a)	3,318	5,575	2,371	6,163	3,828	8,473
Semi-manufactures (a)	1,214	1,109	918	1,182	621	1,211
Aluminium sulphates ..	514	1,214	310	1,368	1,069	641
Ecuador—						
Semi-manufactures ..	n.a.	249	525	517	651	n.a.
Aluminium sulphates ..	371	1,185	827	1,041	866	n.a.
Peru—						
Unwrought (a)	557	563	627	865	1,743	n.a.
Semi-manufactures (a)	2,021	1,664	1,841	2,394	2,250	n.a.
Aluminium sulphates ..	3,743	3,218	3,104	275	219	n.a.
Uruguay—						
Unwrought	n.a.	n.a.	n.a.	n.a.	399	1,463
Aluminium sulphates ..	n.a.	n.a.	n.a.	n.a.	20	1,722
Venezuela—						
Unwrought	726	1,019	855	1,970	2,921	1,727
Semi-manufactures ..	9,885	7,586	6,768	6,136	4,685	6,255

(a) Including alloys.

(b) Excluding leaves 5½ in. by 5½ in. recorded by number only.

IMPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Venezuela <i>(cont.)</i> —						
Aluminium sulphates ..	10,202	7,134	7,096	8,683	11,449	12,023
Alumina and hydrate ..	153	186	231	268	323	364
Burma—						
Unwrought ..	377	456	376	3,284	3,609	n.a.
Semi-manufactures (a)	2,278	2,611	2,719			
Formosa—						
Bauxite ..	56,273	56,282	52,176	88,446	103,087	88,921
Foil ..	9	7	13	27	18	17
Indonesia—						
Semi-manufactures (a)	5,908	4,150	n.a.	n.a.	n.a.	n.a.
Aluminium sulphates ..	8,686	n.a.	n.a.	n.a.	n.a.	n.a.
Iran (b)—						
Unwrought (a) ..	1,823	2,088	2,271	4,066	2,986	6,048
Semi-manufactures ..	997	1,484	1,104	1,767	1,381	2,013
Iraq—						
Unwrought (a) ..	491	583	207	—	n.a.	n.a.
Semi-manufactures (a)	1,646	1,187	1,858	2,768	n.a.	n.a.
Aluminium sulphates ..	2,837	4,817	3,543	4,314	n.a.	n.a.
Israel—						
Unwrought and semi-manufactures ..	5,655	6,717	5,689	8,089	7,544	9,156
of which—Foil ..	22	50	50	54	122	120
Japan—						
Bauxite ..	1,138,283	1,081,336	1,398,974	1,596,316	1,648,943	1,793,101
Cryolite ..	5,202	3,736	6,310	7,428	6,234	4,883
Unwrought ..	31,877	17,128	16,434	18,239	23,268	47,504
do. alloys ..	191	361	6,438	15,612	18,741	28,281
Scrap ..	16,840	11,371	11,786	9,160	4,169	18,792
do. alloys ..	14,508	5,572	6,448	15,673	5,059	
Semi-manufactures (a)	587	626	824	1,788	925	1,866
Jordan—						
Semi-manufactures ..	203	261	295	156	502	532
of which—Foil ..	35	61	68	87	238	117
Korea (South)—						
Unwrought and semi-manufactures ..	3,416	11,618	7,532	3,228	7,282	9,852
Aluminium sulphate ..	233	n.a.	n.a.	n.a.	n.a.	n.a.
Lebanon—						
Unwrought ..	850	818	2,029	2,337	1,406	3,860
Semi-manufactures ..	588	759	508	636	570	575
Philippine Republic—						
Unwrought ..	1,892	1,856	4,685	4,386	4,215	n.a.
Semi-manufactures (a)	1,307	704	744	937	1,003	n.a.
of which—Foil ..	157	292	315	269	324	n.a.
Aluminium sulphates ..	n.a.	n.a.	8,713	3,196	1,606	n.a.
Syria—						
Unwrought ..	121	n.a.	398	287	428	116
Thailand—						
Unwrought (a) ..	562	1,170	1,625	2,953	1,807	3,853
Semi-manufactures (a)	2,736	2,987	3,136	2,311	3,220	2,873
of which—Foil ..	421	666	567	740	998	1,010
Aluminium sulphates ..	1,080	685	550	351	702	199
Turkey—						
Unwrought (a) ..	489	1,260	1,197	1,554	5,551	8,102
Semi-manufactures (a)	2,483	2,865	2,600	1,616	1,720	2,825
of which—Foil ..	752	1,193	1,113	471	873	1,846
Aluminium sulphates ..	2,330	3,207	4,930	3,152	4,687	8,382

(a) Including alloys.

(b) Years ending March 20 following that stated.

ANTIMONY
PRODUCTION OF ANTIMONY ORE
(Metal content)

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Rhodesia	51	46	49	36	<i>n.a.</i>	<i>n.a.</i>
Canada (a)	—	—	—	—	—	—
Pakistan	13	67	8	81	60	<i>n.a.</i>
Sarawak	—	—	—	70	50	59
Australia (b) .. .	117	66	74	273	35	98
OTHER COUNTRIES						
Austria	871	983	853	879	681	650
Czechoslovakia (h) ..	1,600	2,000	2,000	2,000	2,000	2,000
France	—	—	98	165	119	275
Italy	246	333	237	529	261	261
Portugal	—	—	6	12	11	4
Spain	170	157	58	53	85	92
U.S.S.R. (h)	6,000	6,000	7,000	7,000	7,000	7,000
Yugoslavia (c)	2,424	2,648	2,619	2,686	2,724	2,603
Algeria	643	133	—	—	65	(f) 60
Morocco	364	401	664	1,535	2,165	1,232
South Africa	10,539	10,425	10,983	12,679	12,312	11,191
Guatemala	30	39	(e) 28	—	—	—
Mexico	3,552	4,694	4,750	4,712	4,396	4,407
United States (d) .. .	615	563	576	564	754	828
Bolivia (g)	6,634	7,078	7,443	9,488	8,627	10,499
Peru (i)	777	513	601	671	637	662
Burma	66	29	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
China (f)	15,000	15,000	15,000	15,000	15,000	15,000
Japan	192	169	189	495	180	76
Thailand	22	17	604	1,249	(f) 1,250	1,046
Turkey	1,220	1,530	1,614	1,720	1,643	1,589
TOTAL*	51,000	53,000	55,000	62,000	60,000	60,000

*Excluding any antimony ore produced in Hungary, Afghanistan and Iran.

(a) The following figures represent the antimony content of antimonial lead and of flue dust and slags (long tons): 1961—594; 1962—862; 1963—715; 1964—711; 1965—581; 1966—628.

(b) In addition the antimony content of antimonial slag obtained as a by-product of lead refining was as follows (long tons): 1961—563; 1962—808; 1963—933; 1964—843; 1965—909; 1966—873.

(c) Metal.

(d) Secondary metal was recovered as follows (long tons): 1961—17,380; 1962—17,287; 1963—18,574; 1964—19,946; 1965—21,715; 1966—21,659.

(e) Imports into the United States.

(f) United States Bureau of Mines' estimate.

(g) Content of ore exported plus exports of metal.

(h) Estimate. Source "Minerais et Métaux".

(i) Metal plus content of ore.

EXPORTS OF ANTIMONY

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Regulus and refined ..	1,171	827	1,454	1,079	1,241	751
Rhodesia (a)—						
Ore	222	179	213	162	207	n.a.
Canada—						
Antimonial lead (Sb content) ..	534	706	n.a.	n.a.	n.a.	n.a.
Sarawak—						
Ore	—	—	—	—	106	—
OTHER COUNTRIES						
Austria—						
Ore	1,780	1,118	806	820	730	383
Sulphide	110	244	317	312	199	262
Belgium-Luxemburg						
E.U.—						
Oxide	966	1,251	1,137	1,765	1,609	n.a.
France—						
Ore	—	—	98	50	—	—
Crude and regulus ..	135	53	262	54	56	38
Germany (Federal)—						
Ore	—	—	—	—	1	—
Regulus, scrap, etc. ..	402	1,014	769	226	172	205
Oxide	91	136	87	438	n.a.	263
Italy—						
Regulus and scrap ..	—	2	—	1	1	1
Netherlands—						
Regulus (b)	34	69	57	55	30	7
Oxide	31	48	19	130	122	31
Sweden—						
Regulus	7	10	39	34	12	22
U.S.S.R.—						
Regulus	3,400	3,800	3,200	4,200	2,700	2,400
Yugoslavia—						
Regulus	2,039	2,245	2,324	1,921	2,261	1,981
Algeria—						
Ore	2,360	559	—	—	n.a.	n.a.
Morocco—						
Ore	1,129	998	1,327	1,838	2,979	2,696
South Africa—						
Ore	16,292	18,059	19,485	21,722	18,711	17,658
Mexico—						
Ore and concentrates ..	9,343	11,226	11,720	11,871	11,170	14,264
Regulus and refined ..	128	270	316	290	276	316
United States—						
Ore	6	8	129	346	n.a.	n.a.
Metal and alloys	30	31	14	375	13	26
Bolivia—						
Ore (Sb content)	6,602	7,035	7,443	9,488	8,621	10,499
Regulus	32	43	—	—	6	
Peru—						
Ore and metal (Sb content) ..	901	864	840	978	686	n.a.
Burma—						
Ore	151	71	21	—	—	n.a.
Japan—						
Regulus	3	n.a.	n.a.	n.a.	n.a.	n.a.
Sulphide	14	n.a.	n.a.	n.a.	n.a.	n.a.
Thailand—						
Ore	52	72	852	1,447	1,964	3,146
Turkey—						
Ore	2,475	2,707	3,722	2,587	3,380	2,863
Sulphide	n.a.	n.a.	n.a.	—	220	352

(a) Figures for years 1961 to 1963 relate to Rhodesia and Nyasaland.

(b) Including scrap.

IMPORTS OF ANTIMONY, ETC.

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore and concentrates (b)	11,733	12,085	11,995	13,989	<i>n.a.</i>	<i>n.a.</i>
Zambia (c)—						
Refined and regulus ..	183	60	110	61	12	81
Canada—						
Regulus	372	570	463	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Oxide	160	280	290	317	275	332
India—						
Ore	1,042	1,376	1,690	1,323	1,675	2,077
Metal	1	—	15	59	34	56
Oxide (d)	96	54	39	41	92	65
Sulphide (d)	1	2	2	4	37	20
Australia (c)—						
Concentrates	271	34	44	43	21	—
Regulus	238	156	393	829	251	186
New Zealand—						
Refined and regulus ..	152	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Oxide	21	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
OTHER COUNTRIES						
Austria—						
Regulus	151	128	263	162	94	112
Belgium-Luxemburg						
E.U.—						
Regulus (a)	202	353	238	162	111	102
Oxide	138	143	213	287	88	60
Denmark—						
Regulus	313	379	313	106	106	146
France—						
Ore	4,303	2,957	853	2,648	1,651	1,497
Crude and regulus (a) ..	896	2,141	2,743	2,623	1,700	2,398
Sulphide	—	12	6	7	7	11
Germany (Federal)—						
Ore	2,175	1,623	2,131	2,619	2,749	3,147
Regulus, scrap, etc. ..	3,535	3,545	4,707	3,298	2,707	2,733
Oxide	211	246	402	815	<i>n.a.</i>	581
Greece—						
Regulus	39	53	53	18	56	34
Italy—						
Ore	1,002	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	15	830
Regulus and scrap	400	<i>r</i> 412	620	334	430	491
Oxide	248	<i>r</i> 430	283	<i>r</i> 226	256	264
Sulphide	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	18
Netherlands—						
Regulus (a)	437	336	380	289	230	273
Oxide	501	564	560	590	583	510
Norway—						
Regulus	109	115	90	93	100	43
Poland—						
Regulus	2,414	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Portugal—						
Sulphide	1	<i>n.a.</i>	—	1	—	—
Spain—						
Ore	247	580	507	523	696	305
Regulus	42	60	133	151	268	140
Oxide	<i>n.a.</i>	<i>n.a.</i>	190	253	221	307
Sweden—						
Regulus	340	386	439	419	270	340

(a) Including scrap.

(b) Including crude.

(c) Years ended June 30 of that stated.

(d) Years ended March 31 following that stated.

(e) Figures for years 1961 to 1963 relate to Rhodesia and Nyasaland.

IMPORTS OF ANTIMONY, ETC. (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Switzerland—						
Regulus	<i>n.a.</i>	537	311	349	205	191
Yugoslavia—						
Ore	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	132	160
Morocco—						
Regulus	22	30	19	10	12	<i>n.a.</i>
South Africa—						
Refined and regulus ..	156	262	314	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Mexico—						
Oxide	24	21	20	18	24	26
United States—						
Ore (<i>Sb content</i>) ..	5,994	7,681	8,736	9,532	9,250	11,125
Crude	11	15	20	28	21	56
Regulus	4,386	4,214	5,086	2,953	2,366	2,697
Oxide	1,786	2,598	1,865	2,795	1,940	4,807
Argentina—						
Ore	611	553	370	497	1,058	427
Brazil—						
Ore	<i>n.a.</i>	53	79	64	269	290
Regulus	108	631	580	157	71	233
Oxide	33	62	36	14	34	111
Sulphide	101	93	139	108	37	106
Chile—						
Regulus	38	8	52	<i>n.a.</i>	69	<i>n.a.</i>
Colombia—						
Metal	26	40	66	11	15	20
Peru—						
Sulphides	—	1	—	—	—	<i>n.a.</i>
Uruguay—						
Regulus	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	10	10
Venezuela—						
Regulus	8	6	17	13	21	34
Indonesia—						
Regulus	164	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Ore and concentrates ..	6,369	4,947	6,098	6,398	4,473	7,286
Regulus	—	—	158	911	124	305
Sulphide	91	149	270	98	49	20

ARSENIC
PRODUCTION OF ARSENIC

Long tons

Producing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Rhodesia—						
White arsenic	—	1,078	540	184	<i>n.a.</i>	<i>n.a.</i>
Canada—						
White arsenic (a) ..	187	72	84	145	180	313
OTHER COUNTRIES						
France—						
White arsenic	9,300	6,676	11,900	11,217	11,944	11,853
Germany (Federal) (b)—						
White arsenic, etc. ..	137	67	55	37	69	371
Greece—						
White arsenic (c)	3	—	—	—	—	—
Italy—						
Mispickel (<i>As content</i>) ..	583	265	—	—	—	—
White arsenic	874	125	—	—	—	—
Portugal—						
White arsenic	295	566	555	366	183	191
Spain—						
White arsenic	306	209	143	140	116	110
Sweden—						
White arsenic	10,851	5,662	14,615	17,686	16,264	14,458
South West Africa—						
Lead concentrates						
(<i>As content</i>)	—	—	—	—	—	744
White arsenic	—	—	—	—	—	39
Mexico—						
Ores (<i>As₂O₃ content</i>) ..	12,087	10,731	9,336	10,992	9,968	11,706
Brazil—						
White arsenic	57	147	288	185	252	315
Peru—						
White arsenic	346	511	610	<i>r</i> 611	492	<i>n.a.</i>
Japan—						
White arsenic	935	903	807	491	471	538

Arsenic has also been produced in the United Kingdom, Austria, Belgium, Czechoslovakia, East Germany, Hungary, U.S.S.R., United States, Argentina, Iran, China and Korea.

(a) Refined white arsenic produced plus the content of crude arsenic exported but excluding arsenic contained in gold ores exported.

(b) Exports.

(c) United States Bureau of Mines' estimate.

EXPORTS OF ARSENIC, ETC.

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Arsenical compounds:						
inorganic	6,774	8,166	(a)	(a)	7,849	8,941
	£444,901	£539,894	£440,827	£461,045	£519,544	£619,648
organic.	£146,394	£113,763	£59,739	£68,143	£52,210	£45,483
Canada—						
White arsenic, etc. (b)	109	—	2	n.a.	n.a.	n.a.
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Arsenates and arsenites	312	313	291	121	127	2
France—						
White arsenic	10,799	9,690	9,411	9,316	10,211	10,714
Arsenates	161	117	98	48	38	49
Germany (Federal)—						
White arsenic, etc. ..	137	67	55	37	69	371
Arsenates	182	194	102	57	59	64
Italy—						
White arsenic	2	20	15	—	41	5
Arsenates and arsenites	12	3	25	104	11	12
Netherlands—						
White arsenic	—	21	13	38	40	2
Arsenates and arsenites	9	21	32	27	3	8
Poland—						
Metallic arsenic	38	n.a.	n.a.	n.a.	n.a.	n.a.
Portugal—						
White arsenic	77	1,075	702	491	349	370
Sweden—						
White arsenic	10,229	7,719	13,000	13,577	11,692	16,580
Metallic arsenic	182	226	298	344	432	512
South West Africa—						
Lead concentrates						744
(As content)	—	—	—	—	—	39
White arsenic	—	—	—	—	—	—
Mexico—						
White arsenic, pure ..	6,072	6,376	8,515	11,023	9,063	9,260
do. crude	7,060	1,962	125	86	813	1,612
United States—						
Arsenate of lead	415	635	358	836	n.a.	n.a.
Arsenate of lime	299	421	83	686	n.a.	n.a.
Japan—						
White arsenic	12	15	2	22	9	42

(a) Quantity not available; value shown relates to arsenites and arsenates only.

(b) Including arsenic contained in gold ores exported.

IMPORTS OF ARSENIC, ETC.

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
White arsenic	8,587	6,570	8,806	9,619	10,914	9,918
Arsenates and arsenites	<i>n.a.</i>	<i>n.a.</i>	(£1,062)	(£571)	(£3,314)	(£2,426)
Canada—						
Arsenate of lead	26	19	28	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Arsenate of lime	80	84	59	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
India (b)—						
Arsenic and its oxides ..	602	384	239	524	529	248
Malaysia (West)—						
Arsenite of soda	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	7,882	8,157
Pakistan—						
Arsenic and its oxides ..	44	32	24	10	<i>n.a.</i>	<i>n.a.</i>
Australia (a)—						
White arsenic	2,183	1,695	1,906	1,800	1,729	1,198
Arsenates and arsenites	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	42
New Zealand—						
White arsenic, etc.	9	141	(a) 187	(a) 160	(a) 72	(a) 158
Arsenate of lead	11	31	r (a) 34	(a) 40	(a) 26	(a) 23
Other arsenates and arsenites	<i>n.a.</i>	<i>n.a.</i>	(a) 61	(a) 99	(a) 55	<i>n.a.</i>
OTHER COUNTRIES						
Austria—						
White arsenic, etc.	32	32	33	49	40	46
Belgium-Luxemburg						
E.U.—						
White arsenic	3	5	12	72	44	21
Denmark—						
White arsenic	29	15	30	21	15	22
Arsenates and arsenites	50	99	115	158	50	2
France—						
Sulphide	8	—	—	—	—	—
Metallic arsenic	21	15	17	33	33	38
White arsenic	30	79	62	79	108	39
Germany (Federal)—						
Metallic arsenic	23	27	28	34	<i>n.a.</i>	<i>n.a.</i>
White arsenic, etc.	2,789	2,194	1,796	950	1,288	1,151
Sulphide	8	1	—	1	—	—
Greece—						
White arsenic	18	53	29	31	32	<i>n.a.</i>
Arsenates and arsenites	3	—	52	59	—	<i>n.a.</i>
Italy—						
White arsenic	449	1,134	1,600	r 1,600	1,836	1,587
Metallic arsenic (c)	16	10	19	21	16	28
Arsenates and arsenites	3	47	27	4	5	12
Netherlands—						
White arsenic etc.	638	608	944	840	887	823
Arsenates and arsenites	32	15	26	55	43	19
Norway—						
White arsenic	51	47	63	88	67	69
Portugal—						
White arsenic	8	5	1	—	—	—
Arsenate of soda	—	<i>n.a.</i>	1	1	1	12
Switzerland—						
White arsenic, etc.	245	99	90	97	78	85
Yugoslavia—						
Metallic arsenic	3	—	r 3	r 6	8	1
White arsenic	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	11	104
Arsenates	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	12	17
Malagasy Republic—						
Arsenates	16	9	9	15	20	11

(a) Years ended June 30 of that stated.

(b) Years ended March 31 of year following that stated.

(c) May include some tellurium.

IMPORTS OF ARSENIC, ETC. (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Tunisia—						
Arsenates and arsenites	1	2	—	1	3	<i>n.a.</i>
Mexico—						
White arsenic	100	1	—	17	—	—
United States—						
Metallic arsenic	59	102	151	137	161	162
White arsenic	17,396	14,069	12,999	16,237	13,862	16,679
Sulphide	25	30	31	25	41	27
Arsenate of soda	94	114	122	143	138	163
Argentina—						
White arsenic	720	780	397	522	329	481
Brazil—						
Metallic arsenic	—	3	5	15	21	7
White arsenic	675	784	743	297	112	256
Arsenates	28	—	7	2	—	5
Chile—						
White arsenic	64	52	119	<i>n.a.</i>	124	<i>n.a.</i>
Arsenates	—	<i>n.a.</i>	23	<i>n.a.</i>	—	<i>n.a.</i>
Colombia—						
White arsenic	34	70	126	39	18	9
Uruguay—						
Arsenate of lead	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	10
Formosa—						
White arsenic	88	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Japan—						
White arsenic	2,445	1,500	2,633	2,169	2,526	2,743
Sulphide	23	34	35	47	41	30
Turkey—						
Arsenic compounds	74	15	10	—	17	26

ASBESTOS

PRODUCTION OF ASBESTOS

Long tons

Producing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Botswana	1,718	2,156	2,114	1,929	793	—
Kenya—						
Anthophyllite	135	189	70	182	121	65
Rhodesia	144,295	126,961	127,014	137,010	(b) 164,762	(c) 156,000
Swaziland	27,493	29,312	29,778	35,591	36,503	32,270
Canada (a)—						
Chrysotile	1,047,942	1,085,548	1,138,866	1,267,724	1,239,475	1,332,068
<i>Crude</i>	146	183	194	211	n.a.	n.a.
<i>Fibre</i>	489,491	488,792	517,040	593,111	n.a.	n.a.
<i>Shorts and Waste</i>	558,305	596,573	621,632	674,402	n.a.	n.a.
Cyprus	14,471	19,992	17,823	12,281	15,733	24,519
India	1,450	1,665	2,712	3,313	4,700	6,826
Australia—						
Chrysotile	865	826	847	1,577	1,046	560
Crocidolite	14,087	15,617	r 11,094	10,614	9,280	11,464
New Zealand	333	408	392	—	—	—
Total	1,253,000	1,283,000	1,331,000	1,470,000	1,472,000	1,564,000
OTHER COUNTRIES						
Austria	504	449	570	—	—	—
Bulgaria	1,100	1,181	1,181	1,279	1,279	(c) 1,280
Finland	9,231	9,704	r 9,108	10,367	(e) 11,881	11,830
France	27,451	25,029	23,298	21,687	9,981	—
Greece	—	—	66	62	n.a.	n.a.
Italy	55,760	54,339	56,264	r 67,109	70,728	80,774
Portugal	19	—	26	—	47	10
Spain	10	—	—	—	—	—
U.S.S.R. (c)	790,000	r 630,000	r 675,000	r 720,000	770,000	825,000
Yugoslavia	5,990	6,608	8,102	8,286	9,451	7,509
Egypt	227	541	171	1,553	2,880	1,837
Mozambique	145	331	—	—	80	n.a.
South Africa—						
Amosite	61,816	66,860	69,302	68,996	72,085	85,658
Blue	83,750	103,866	88,545	91,424	108,145	128,462
Chrysotile	28,327	26,779	25,829	32,072	34,728	32,841
Tremolite	66	86	25	—	—	—
United States (d)	47,155	47,491	59,282	90,261	105,603	112,436
Argentina	—	181	326	484	217	(c) 210
Bolivia (b)	103	n.a.	n.a.	n.a.	7	4
Venezuela	581	—	—	—	—	—
China (c)	90,000	90,000	100,000	120,000	130,000	130,000
Formosa	39	468	539	469	788	644
Japan—						
Chrysotile	16,785	13,756	16,259	16,052	14,688	19,132
Korea (South)	304	1,190	1,893	1,252	1,527	320
Philippine Republic	74	926	376	524	—	—
Turkey	443	633	364	1,153	1,228	3,573
Total*	1,200,000	r 1,100,000	r 1,200,000	r 1,300,000	1,400,000	1,500,000
WORLD'S TOTAL*	2,500,000	r 2,400,000	r 2,500,000	r 2,700,000	2,800,000	3,000,000

*Including an estimate for asbestos produced in Brazil but excluding asbestos known to have been produced in Czechoslovakia, Roumania, Eritrea and North Korea.

(a) Sales and shipments.

(b) Exports.

(c) United States Bureau of Mines' estimate.

(d) Sold or used by producers.

(e) Fibre.

EXPORTS OF ASBESTOS

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Unmanufactured ..	7,014	7,060	8,126	5,703	5,987	4,695
Packing, etc. ..	11,741	10,608	10,468	10,423	11,068	10,718
Cement products ..	52,979	39,448	44,041	57,857	37,607	33,322
Yarn and cloth ..	3,369	3,062	3,544	3,843	3,846	3,927
Other manufactures ..	17,348	16,013	12,018	14,466	13,085	13,147
Kenya—						
Unmanufactured ..	31	18	—	—	—	—
Rhodesia (e)—						
Unmanufactured ..	119,211	129,834	109,926	158,769	164,762	n.a.
Cement products ..	(£1,153)	(£1,568)	(£180)	(£491,982)	(£634,260)	n.a.
Canada—						
Crude	157	162	174	191	110	154
Fibre	470,825	475,018	495,910	562,960	563,194	654,094
Shorts and waste ..	526,232	564,704	581,081	627,453	614,736	636,969
Manufactured ..	(£345,378)	(£391,752)	(£492,693)	(£654,355)	(£670,009)	(£786,070)
Cyprus—						
Unmanufactured ..	15,805	13,879	13,460	11,317	17,263	18,888
India—						
Unmanufactured ..	34	12	6	8	9	29
Manufactured (a) ..	614	766	119	51	138	70
Cement products (a) ..	617	738	1,021	1,038	444	394
Malaysia (West)—						
Cement products ..	n.a.	n.a.	n.a.	n.a.	2,453	2,217
Other manufactures ..	n.a.	n.a.	n.a.	n.a.	50	214
Singapore—						
Cement products ..	30,171	37,010	35,396	36,732	26,400	26,762
Other manufactures ..	171	179	248	53	127	136
Hong Kong—						
Cement products ..	63	165	113	—	—	—
Australia—						
Unmanufactured ..	7,196	8,695	2,347	6,500	4,295	4,644
Packing (b)	(£13,538)	(£43,083)	(£35,015)	(£74,305)	(£141,226)	(£216,215)
New Zealand—						
Cement products (N.Z.)	(£6,999)	(£2,959)	n.a.	n.a.	n.a.	n.a.
OTHER COUNTRIES						
Austria—						
Unmanufactured ..	337	229	157	15	9	1,674
Manufactured (c) ..	1,717	1,455	1,641	1,973	2,641	2,482
Cement products (d) ..	6,082	7,693	11,203	10,519	13,376	10,833
Belgium-Luxemburg						
E.U.—						
Unmanufactured ..	604	119	391	128	23	43
Manufactured (c) ..	2,821	2,849	454	478	643	663
Cement products (d) ..	218,089	214,822	212,442	213,063	210,948	189,675
Denmark—						
Unmanufactured ..	30	93	34	67	159	47
Manufactured (c) ..	520	759	785	513	875	726
Cement products (d) ..	6,329	7,229	9,890	7,102	7,447	6,774
Finland—						
Unmanufactured ..	5,580	5,635	5,991	7,435	8,426	8,393
Manufactured	647	719	620	725	1,131	570

(a) Years ended March 31 following that stated.

(b) Years ended June 30 of that stated.

(c) Including brake and clutch linings of material other than asbestos.

(d) Including manufactures of other fibro-cements.

(e) Figures for years 1961 to 1963 exclude exports to Malawi and Zambia.

EXPORTS OF ASBESTOS (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
France—						
Unmanufactured ..	11,210	9,905	6,076	8,786	4,934	1,899
Manufactured (a) ..	4,971	3,970	4,543	4,408	5,006	4,776
Cement products (b) ..	47,221	52,822	38,570	38,107	33,731	50,758
Germany (Federal)—						
Unmanufactured ..	913	364	294	249	271	469
Manufactured (a) ..	3,943	3,683	3,681	4,301	5,351	6,863
Cement products (b) ..	22,365	22,261	49,445	57,804	36,156	24,957
Italy—						
Unmanufactured ..	r 9,063	7,765	6,310	r 8,890	25,293	35,370
Manufactured (a) ..	r 1,062	r 1,004	4,008	r 2,378	1,295	1,493
Cement products (b) ..	52,706	r 60,676	31,970	r 49,877	42,902	50,518
Netherlands—						
Unmanufactured ..	259	57	120	17	92	15
Manufactured (a) ..	8,386	2,300	2,151	2,462	1,899	2,271
Cement products (b) ..	10,089	6,644	8,069	7,906	5,627	4,030
Portugal—						
Unmanufactured ..	31	92	44	2	41	18
Manufactured ..	839	748	447	552	664	1,134
Spain—						
Manufactured (a) ..	50	38	22	141	268	406
Cement products (b) ..	406	355	288	277	1,893	303
Sweden—						
Unmanufactured ..	51	12	53	134	13	55
Manufactured (a) ..	103	113	93	111	166	150
Cement products ..	18,081	15,346	17,279	22,517	20,005	23,028
Switzerland—						
Manufactured (a) ..	452	520	160	233	71	250
Cement products (b) ..	2,351	2,319	2,939	3,523	5,837	3,193
U.S.S.R.—						
Unmanufactured ..	156,100	166,400	177,300	208,800	244,500	252,700
Yugoslavia—						
Unmanufactured ..	4,226	5,296	5,376	4,264	4,387	2,533
Manufactured ..	39	131	255	1,726	1,108	1,181
Cement products ..	—	107	503	500	6,626	24,410
Egypt—						
Unmanufactured ..	30	n.a.	n.a.	n.a.	n.a.	n.a.
Morocco—						
Cement products ..	10,389	11,261	9,095	10,561	14,849	n.a.
Mozambique—						
Unmanufactured ..	157	39	—	—	143	106
South Africa—						
Unmanufactured (c) ..	167,192	182,715	184,244	223,350	221,121	229,827
Cement products ..	(£207,215)	(£286,208)	(£275,902)	(£157,338)	(£272,288)	5,143
Other manufactures ..	(£26,050)	(£12,340)	(£24,173)	(£105,688)	(£94,663)	(£186,849)
United States—						
Unmanufactured ..	3,189	2,521	8,909	24,000	38,388	41,687
Spun, woven and packing ..	1,149	1,298	1,336	1,357	2,255	3,195
Brake linings ..	(£1,497,467)	(£1,653,325)	(£1,745,765)	(£1,721,809)	(£1,690,816)	(£1,874,550)
Clutch facings ..	(£410,464)	(£555,751)	(£628,845)	(£659,061)	(£604,603)	(£679,149)
Pipe covering and cement ..	2,345	2,580	3,661	n.a.	10,327	13,171
Other manufactures ..	10,090	8,093	12,026	11,596	(£2,192,335)	(£1,811,000)
Bolivia—						
Unmanufactured ..	103	n.a.	n.a.	n.a.	7	4
Colombia—						
Cement products ..	363	553	2,291	4,358	1,977	17,316
Peru—						
Manufactured ..	11	116	—	31	4	n.a.

(a) Including brake and clutch linings of material other than asbestos.

(b) Including manufactures of other fibro-cements.

(c) Including, if any, produce of Botswana and Swaziland.

EXPORTS OF ASBESTOS (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Venezuela—						
Unmanufactured ..	375	—	—	7	—	—
Formosa—						
Unmanufactured ..	<i>n.a.</i>	<i>n.a.</i>	34	50	86	68
Manufactured ..	<i>n.a.</i>	<i>n.a.</i>	213	828	16	185
Japan—						
Unmanufactured ..	15	24	106	53	757	700
Manufactured ..	1,663	2,160	3,633	4,134	3,332	4,656
Cement products ..	462	371	21,812	15,942	47,980	37,696
Lebanon—						
Cement products ..	10,432	17,800	14,485	15,021	27,123	28,576
Thailand—						
Cement products ..	1,197	1,013	3,461	<i>n.a.</i>	<i>n.a.</i>	812
Turkey—						
Unmanufactured ..	—	—	—	—	—	591

IMPORTS OF ASBESTOS

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Unmanufactured—						
Crude and fibre ..	154,942	133,656	144,074	160,626	157,782	178,561
Waste	11,582	11,261	13,362	22,759	18,149	10,659
Cement products ..	16,651	17,010	18,058	22,564	27,292	26,071
Other manufactures ..	4,780	3,970	5,914	6,714	6,614	4,247
Channel Islands—						
Manufactured	2,074	1,593	1,738	2,696	2,594	1,314
Malta—						
Manufactured	(£30,034)	(£29,433)	(£8,262)	(£13,837)	(£14,367)	(£13,560)
Gambia—						
Cement sheets and pipes	28	294	551	534	594	624
Ghana—						
Cement sheets, pipes etc.	21,675	15,354	22,663	20,144	18,042	18,222
Kenya—						
Manufactured	2,187	1,376	2,119	902	976	1,906
Mauritius—						
Manufactured	642	1,856	346	877	1,244	2,252
Nigeria—						
Cement sheets and pipes	30,290	18,836	8,218	7,558	8,478	5,885
Sierra Leone—						
Cement sheets and pipes	1,199	621	870	288	—	1,920
Tanzania—						
Manufactured	1,622	1,112	618	918	535	2,651
Uganda—						
Unmanufactured ..	733	652	376	736	860	1,416
Manufactured	441	407	715	619	400	819
Zambia (a)—						
Unmanufactured ..	n.a.	n.a.	n.a.	1,175	913	1,106
Cement products ..	(£51,793)	(£89,005)	(£33,430)	(£442,007)	(£411,686)	(£403,620)
Canada—						
Unmanufactured ..	n.a.	n.a.	n.a.	8,230	6,142	5,857
Packing	291	194	238	325	342	425
Other manufactures ..	(£1,494,336)	(£1,389,038)	(£1,582,563)	(£1,811,982)	(£1,922,075)	(£1,996,352)
Barbados—						
Manufactured	12	27	20	31	30	48
Bermuda—						
Sheets, etc.	(£17,561)	(£14,542)	(£12,261)	(£10,101)	(£13,780)	(£12,424)
Grenada—						
Manufactured	7	2	7	2	4	1
Jamaica—						
Unmanufactured ..	28	21	114	171	349	182
Manufactured	93	174	348	546	369	159
Cement products ..	2,405	2,467	1,093	446	2,858	1,952
St. Vincent—						
Cement products ..	42	18	n.a.	n.a.	3	7
Trinidad and Tobago—						
Cement products ..	394	230	891	159	498	706
Other manufactures ..	619	602	599	507	821	1,880
Guyana—						
Cement products ..	860	1,336	n.a.	900	1,990	453
Other manufactures ..	907	100	n.a.	177		
Brunei—						
Cement products ..	n.a.	n.a.	n.a.	1,434	1,203	1,227
Ceylon—						
Unmanufactured ..	318	—	—	463	693	—
Cement sheets, etc. ..	72	2,223	3,757	158	9	6
Other manufactures ..	410	30	28	777	4,385	4,352
Cyprus—						
Sheets and pipes ..	3,207	4,009	4,585	2,689	4,080	4,336
Other manufactures ..	(£37,075)	(£29,204)	(£34,516)	(£33,539)	(£88,458)	(£161,672)

(a) Figures for years 1961 to 1963 relate to Rhodesia and Nyasaland.

IMPORTS OF ASBESTOS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES (cont.)						
Hong Kong—						
Unmanufactured ..	28	16	9	(e) 1	235	362
Manufactured ..	408	275	295	(£103,632)	(£144,149)	(£100,887)
Cement products ..	34,428	27,329	34,578	11,115	8,057	5,903
India—						
Unmanufactured ..	19,178	22,023	36,374	35,222	37,219	29,482
Manufactured (b) ..	2,276	921	1,661	1,768	2,669	676
Cement products (b) ..	1,826	1,589	2,038	180	162	83
Malaysia (West)—						
Unmanufactured ..	n.a.	n.a.	n.a.	n.a.	7,787	8,837
Cement products ..	n.a.	n.a.	n.a.	n.a.	14,619	11,836
Other manufactures ..	n.a.	n.a.	n.a.	n.a.	351	678
Pakistan—						
Cement sheets ..	397	1,656	519	134	n.a.	n.a.
Sabah—						
Manufactured ..	10	3	17	10	22	18
Cement products ..	n.a.	n.a.	3,647	3,587	3,778	2,976
Sarawak—						
Cement products ..	1,072	1,198	1,450	3,786	6,420	5,159
Other manufactures ..	134	43	4	14	12	13
Singapore—						
Unmanufactured ..	4,647	4,949	6,532	8,216	4,778	3,617
Cement products ..	10,900	10,226	13,379	10,689	6,509	3,963
Other manufactures ..	513	427	450	448	747	1,012
Australia—						
Unmanufactured ..	32,947	34,915	32,704	38,299	46,179	49,243
Packing, etc. (a) ..	(£555,484)	(£412,965)	(£490,708)	(£594,958)	(£665,094)	f (£681,000)
New Zealand—						
Unmanufactured ..	5,188	5,830	5,671	(a) 5,468	(a) 7,566	(a) 7,618
Manufactured (£N.Z.) ..	(£256,376)	(£191,024)	} (£487,654)	a (£283,897)	a (£314,762)	{ a) (£606,447) a) (£78,413)
Cement products (£N.Z.) ..	(£104,153)	(£118,568)				
Irish Republic—						
Unmanufactured ..	1,983	3,344	3,111	3,218	5,009	5,938
Manufactured ..	4,007	2,232	3,021	1,419	1,566	1,297
OTHER COUNTRIES						
Austria—						
Unmanufactured ..	20,611	15,766	20,986	21,091	30,611	33,629
Manufactured (c) ..	266	249	345	504	579	830
Cement products (d) ..	3,140	3,919	5,766	7,537	8,715	12,899
Belgium-Luxemburg						
E.U.—						
Unmanufactured ..	55,305	54,627	48,972	55,026	60,062	51,685
Manufactured (c) ..	2,924	2,950	2,414	2,884	2,720	2,680
Cement products (d) ..	2,278	7,415	9,561	6,919	2,524	2,035
Czechoslovakia—						
Unmanufactured ..	31,935	27,860	22,307	24,130	27,126	32,475
Denmark—						
Unmanufactured ..	19,265	20,781	17,142	19,126	26,169	20,440
Manufactured (c) ..	1,882	1,908	1,860	1,702	2,431	1,931
Cement products (d) ..	20,927	6,856	1,055	7,338	12,945	2,233
Finland—						
Unmanufactured ..	6,175	6,758	5,991	6,648	7,360	6,292
Manufactured ..	711	740	620	795	1,825	749
France—						
Unmanufactured ..	76,785	95,881	73,353	107,811	104,981	122,476
Manufactured (c) ..	1,841	1,904	2,535	2,413	3,355	3,138
Cement products (d) ..	8,391	7,302	18,102	38,692	31,101	57,054

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

(c) Including brake and clutch linings of material other than asbestos.

(d) Including manufactures of other fibro-cements.

(e) Excess of re-exports.

(f) Owing to reclassification not strictly comparable with earlier years.

IMPORTS OF ASBESTOS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (Federal)—						
Unmanufactured ..	121,332	126,123	141,169	140,556	170,733	166,738
Manufactured (a) ..	4,447	5,426	6,834	7,885	8,657	8,181
Cement products (b) ..	73,246	88,023	96,652	92,976	109,043	104,517
Greece—						
Unmanufactured ..	2,031	3,333	2,771	4,879	4,397	3,849
Manufactured (a) (c) ..	17,959	6,914	4,910	3,028	4,561	3,806
Hungary—						
Unmanufactured ..	10,509	10,852	14,320	14,744	10,533	14,449
Iceland—						
Unmanufactured ..	28	24	11	5	7	15
Manufactured ..	22	29	77	189	178	148
Italy—						
Unmanufactured .. r	43,199	r 40,197	38,145	r 44,505	38,029	42,931
Manufactured (a) .. r	3,292	r 3,631	1,745	r 3,567	3,235	4,029
Cement products (b) .. r	3,163	r 11,408	14,452	14,554	12,494	13,878
Netherlands—						
Unmanufactured ..	19,413	16,700	16,381	22,908	18,632	16,759
Manufactured (a) ..	3,718	2,979	2,986	4,579	3,841	5,251
Cement products (b) ..	88,500	71,360	30,712	110,011	112,534	101,914
Norway—						
Unmanufactured ..	5,981	5,148	3,474	5,786	5,018	5,492
Manufactured (a) ..	2,998	1,722	1,350	1,828	1,813	1,887
Cement products (b) ..	9,041	9,481	13,534	13,346	12,855	13,778
Poland—						
Unmanufactured ..	19,609	n.a.	21,028	21,359	32,000	41,691
Portugal—						
Unmanufactured ..	2,561	2,676	1,817	2,472	3,816	4,032
Manufactured (a) ..	425	391	367	363	434	516
Spain—						
Unmanufactured ..	22,935	27,412	39,309	50,696	48,433	74,328
Manufactured (a) (b) ..	540	752	1,593	2,525	2,627	2,813
Sweden—						
Unmanufactured ..	16,749	18,555	15,377	19,446	20,828	19,288
Manufactured (a) ..	3,671	3,949	3,428	3,464	4,265	4,257
Cement products ..	16,100	17,902	16,676	13,513	12,527	7,546
Switzerland—						
Unmanufactured ..	9,134	11,931	11,190	12,330	14,436	15,523
Manufactured (a) ..	2,134	2,488	2,277	3,147	3,026	2,399
Cement products (b) ..	1,308	7,691	3,537	5,690	2,230	2,030
Yugoslavia—						
Unmanufactured ..	7,601	9,181	7,975	15,329	12,750	13,165
Manufactured ..	731	691	563	595	405	617
Cement products ..	39	49	184	639	21	6,883
Angola—						
Unmanufactured ..	702	491	575	992	1,342	1,330
Manufactured (a) ..	57	85	97	166	281	284
Egypt—						
Unmanufactured ..	4,805	9,402	7,736	3,360	4,533	6,709
Manufactured ..	791	1,807	699	518	407	560
Libya—						
Manufactured ..	1,337	838	220	22	55	72
Malagasy Republic—						
Manufactured (a) ..	88	99	74	85	70	55
Cement products ..	1,484	1,949	604	716	490	637
Morocco—						
Unmanufactured ..	2,077	2,178	2,316	1,964	2,640	n.a.
Manufactured (a) ..	178	138	166	129	147	n.a.
Cement products ..	109	83	163	80	1	n.a.

(a) Including brake and clutch linings of material other than asbestos.

(b) Including manufactures of other fibro-cements.

(c) Including cement products.

IMPORTS OF ASBESTOS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Mozambique—						
Unmanufactured ..	865	605	495	450	863	992
Manufactured ..	44	23	25	49	52	58
South Africa—						
Unmanufactured ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	4,489	8,467	11,128
Packing ..	(£261,999)	(£260,893)	(£263,760)	(<i>d</i>)	(<i>d</i>)	(<i>d</i>)
Cement products	(£8,997)	(£7,550)	(£15,582)	(£41,476)	(£272,288)	845
Other manufactures ..	(£58,605)	(£29,075)	(£10,981)	(£940,489)	(£1,038,571)	(£832,609)
Sudan—						
Manufactured ..	6,296	5,801	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Tunisia—						
Unmanufactured ..	7	5	3	279	400	2,934
Manufactured (a) ..	70	72	67	179	100	146
Cement products (b) ..	5,830	8,395	8,314	12,917	5,838	<i>n.a.</i>
Costa Rica—						
Manufactured ..	44	60	68	77	75	125
Guatemala—						
Unmanufactured ..	422	469	282	453	983	545
Manufactured (c) ..	74	77	191	103	140	297
Honduras—						
Manufactured ..	29	35	35	82	48	61
Mexico—						
Unmanufactured ..	15,074	11,508	19,668	23,715	21,140	25,123
Manufactured ..	803	632	823	444	869	646
Netherlands Antilles—						
Manufactured ..	205	313	313	266	166	145
Cement sheets ..	2,557	2,976	3,028	2,104	2,270	2,741
Nicaragua—						
Manufactured ..	24	55	32	55	146	69
Panama Republic—						
Cement products ..	347	77	355	522	<i>n.a.</i>	<i>n.a.</i>
Salvador—						
Unmanufactured ..	587	406	827	813	781	1,222
Manufactured ..	115	4	104	84	122	152
United States—						
Unmanufactured—						
Crude ..	38,757	40,743	37,832	} 660,144	{ 49,500	56,419
Mill fibre ..	128,161	13,266	12,784			
Other ..	383,574	549,587	545,687			
Manufactured ..	32,102	38,584	34,605	43,357	42,800	32,296
Argentina—						
Unmanufactured and manufactured ..	12,371	11,598	9,544	12,866	15,396	13,655
Brazil—						
Unmanufactured ..	15,264	11,040	19,887	13,123	14,912	18,648
Manufactured ..	605	546	508	611	240	659
Chile—						
Manufactured ..	8,000	4,898	9,241	<i>n.a.</i>	6,081	<i>n.a.</i>
Colombia—						
Unmanufactured ..	10,100	10,909	12,729	7,886	8,818	16,033
Manufactured ..	846	822	1,043	1,212	407	708
Cement products ..	1,106	14,882	—	383	1	1
Ecuador—						
Unmanufactured ..	346	384	319	755	939	<i>n.a.</i>
Manufactured ..	224	217	202	376	684	<i>n.a.</i>
Peru—						
Unmanufactured ..	2,374	2,377	2,570	2,861	4,464	<i>n.a.</i>
Manufactured ..	523	1,049	445	588	757	<i>n.a.</i>

(a) Including brake and clutch linings of material other than asbestos.

(b) Including manufactures of other fibro-cements.

(c) Including cement products.

(d) Included with "other manufactures".

IMPORTS OF ASBESTOS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Surinam—						
Manufactured	1,392	744	720	1,135	<i>n.a.</i>	<i>n.a.</i>
Uruguay	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,276	1,360
Venezuela—						
Unmanufactured	3,872	3,398	2,584	4,643	4,248	5,233
Manufactured	1,409	568	684	829	488	430
Cement products	546	1,694	20,644	5,294	2,442	9,246
Burma—						
Unmanufactured	665	493	531	1,166	1,871	<i>n.a.</i>
Cement products	12	4	560	6	18	<i>n.a.</i>
Formosa—						
Unmanufactured	820	1,400	876	1,032	1,604	2,329
Manufactured	158	211	249	385	468	428
Indonesia—						
Unmanufactured	2,171	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Manufactured	459	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Cement products	2,296	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Iran (a)—						
Unmanufactured	792	759	1,200	2,258	3,289	4,611
Manufactured	993	377	123	136	147	348
Cement products	4,933	10,553	1,079	895	1,686	1,022
Iraq—						
Unmanufactured	1,014	1,456	817	2,740	<i>n.a.</i>	<i>n.a.</i>
Manufactured	229	277	139	170	<i>n.a.</i>	<i>n.a.</i>
Cement products	1,782	93	10	99	<i>n.a.</i>	<i>n.a.</i>
Israel—						
Unmanufactured	8,533	8,031	9,156	7,438	8,325	5,759
Japan—						
Unmanufactured	113,002	95,147	113,668	141,695	131,413	233,586
Manufactured	336	622	1,092	1,099	958	1,294
Cement products	158	5	336	151	338	972
Jordan—						
Manufactured	305	354	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	552
Korea (South)—						
Unmanufactured	<i>n.a.</i>	<i>n.a.</i>	2,490	3,055	6,284	<i>n.a.</i>
Lebanon—						
Unmanufactured	2,097	4,027	2,569	3,934	3,843	4,445
Manufactured	53	65	123	89	96	181
Cement products	488	290	368	221	703	373
Philippine Republic—						
Unmanufactured	830	931	1,332	1,864	1,268	<i>n.a.</i>
Manufactured	<i>n.a.</i>	57	124	122	111	<i>n.a.</i>
Cement products	817	325	298	71	115	<i>n.a.</i>
Syria—						
Cement sheets	512	4,824	4,508	4,969	4,060	4,862
Other manufactures	79	73	22	69	28	148
Thailand—						
Unmanufactured	3,531	5,311	7,895	7,742	8,226	16,333
Manufactured	281	360	997	554	632	862
Cement products	5,892	3,922	4,031	4,871	5,001	8,077
Turkey—						
Unmanufactured	734	1,492	1,234	2,416	2,612	6,567
Manufactured	906	811	3,518	1,027	393	501
Cement products	192	146	119	7,980	35	95

(a) Years ended March 20 following that stated.

BARIUM MINERALS

PRODUCTION OF BARIUM MINERALS*

Long tons

Producing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Barytes and witherite, unground	44,825	33,784	22,000	24,000	—	—
do. ground	37,029	41,889	33,369	37,000	37,000	30,000
Kenya	—	—	—	—	35	96
Rhodesia	645	859	1,744	1,394	n.a.	n.a.
Swaziland	405	61	83	15	483	1,027
Canada	170,896	202,321	154,913	151,026	181,272	190,941
India	15,663	24,089	37,279	46,217	47,520	48,512
Pakistan	477	2,825	4,841	11,817	8,696	—
Australia	19,217	12,534	8,220	12,302	11,976	13,726
Irish Republic	4,160	20	9,100	40,386	92,226	123,040
OTHER COUNTRIES						
Austria	2,425	1,064	2,139	1,241	2,297	2,756
France	84,828	82,652	73,284	82,497	102,440	108,000
Germany (Federal)	463,350	457,349	449,492	460,081	461,941	444,124
Greece	73,815	70,278	142,280	116,714	n.a.	n.a.
Italy	128,174	119,621	101,990	r 103,091	139,654	169,988
Poland	36,751	44,501	44,979	(c) 45,000	(c) 45,000	(c) 46,000
Portugal	2,040	1,330	1,632	343	3,256	1,000
Spain	33,436	38,324	47,600	58,199	n.a.	n.a.
U.S.S.R. (c)	150,000	180,000	200,000	200,000	210,000	220,000
Yugoslavia (a)	81,734	86,570	74,944	71,725	61,625	47,127
Algeria	30,253	(d) 30,000	n.a.	n.a.	n.a.	n.a.
Egypt	1,548	1,210	4,058	r 4,479	15,111	6,692
Morocco	80,885	88,375	93,061	88,425	102,239	104,577
South Africa	1,752	1,672	2,414	2,531	1,319	6,085
Mexico	244,780	313,113	252,540	328,768	362,524	286,979
United States	653,019	791,932	717,059	729,202	755,050	899,076
Argentina	28,104	12,338	r 16,433	13,488	16,744	n.a.
Brazil	61,459	53,787	33,572	33,007	63,344	64,262
Chile	1,385	1,032	1,003	1,074	2,806	2,006
Colombia	10,064	8,000	10,500	10,000	8,700	—
Peru	109,409	112,742	122,819	r 123,439	109,022	115,000
Uruguay	100	n.a.	n.a.	n.a.	n.a.	n.a.
Burma	2,007	3,984	—	—	(c) 3,000	n.a.
China (c)	80,000	80,000	90,000	100,000	100,000	120,000
Iran (b)	18,700	14,763	(c) 15,000	42,321	(c) 42,000	(c) 42,000
Japan	28,788	37,514	36,928	39,116	41,612	39,702
Korea (South)	700	905	2,714	2,700	1,267	19
Korea (North) (c)	55,000	60,000	65,000	65,000	80,000	80,000
Philippine Republic	1,883	409	900	1,453	—	2
Turkey	—	1,870	966	5,954	11,791	16,833
TOTAL†	2,800,000	3,000,000	2,900,000	3,100,000	3,300,000	3,500,000

*Barytes unless otherwise stated.

†Excluding barytes known to have been produced in Bulgaria, Czechoslovakia, Germany (East) and Norway.

(a) Exports.

(b) Years ended March 20 of year following that stated.

(c) United States Bureau of Mines' estimate.

(d) Estimated.

EXPORTS OF BARIUM MINERALS, ETC.*

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Barium compounds, excluding blanc fixe ..	4,160	4,935	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Canada—						
Barytes	153,300	206,163	142,761	139,756	165,207	177,727
India—						
Unground barytes ..	7,219	5,419	9,048	7,834	4,791	2,718
Australia—						
Ground barytes ..	5,902	1,663	2,600	6,209	2,183	4,797
Irish Republic—						
Unground barytes ..	8,420	830	10,228	31,939	95,686	127,827
OTHER COUNTRIES						
Austria—						
Barytes	30	—	20	6	—	1
Belgium-Luxemburg						
E.U.—						
Barytes and witherite ..	} 438	} 23	} 22	} 191	} 209	} 133
Barytes, ground						
Sulphate						
Carbonate						
Chloride	1,088	471	328	121	20	77
Carbonate	126	—	—	30	4	—
Chloride	36	20	26	—	25	—
France—						
Barytes	21,875	18,063	10,704	15,907	13,774	12,695
Witherite	—	—	2	3	49	3
Chloride	6,345	6,666	7,639	6,922	8,206	10,079
Carbonate	1,907	4,206	3,230	2,723	3,154	1,200
Sulphate	739	645	651	1,023	927	1,899
Sulphide	21	11	3	5	—	—
Germany (Federal)—						
Barytes and witherite ..	121,937	98,221	102,355	121,560	111,541	112,746
Carbonate	14,360	12,139	12,533	15,097	26,634	29,132
Chloride	4,128	3,050	3,590	4,401	3,447	<i>n.a.</i>
Sulphate	16,609	18,402	18,533	19,945	18,559	18,839
Greece—						
Barytes	59,671	60,829	76,511	65,854	49,816	47,552
Italy—						
Barytes	38,012	45,944	22,025	<i>r</i> 11,009	32,223	17,323
Witherite	20	90	30	<i>r</i> —	64	73
Carbonate	1,965	1,697	735	694	2,209	2,015
Chloride	1,464	1,422	1,243	885	1,462	4,739
Sulphate	361	571	138	104	93	290
Netherlands—						
Barytes	19	8	10	278	584	1,161
Carbonate	<i>n.a.</i>	41	483	622	535	706
Chloride	<i>n.a.</i>	23	24	154	92	184
Sulphate	2,199	1,489	2,394	2,559	1,530	2,605
Sulphide	3,275	3,495	—	2,919	79	—
Poland—						
Barytes	<i>n.a.</i>	<i>n.a.</i>	39	814	532	189
Portugal—						
Barytes	601	5	4	107	20	979
Spain—						
Barytes	34,983	39,461	27,293	55,779	49,147	48,265
Carbonate	134	279	512	214	380	280
Sweden—						
Barytes and witherite ..	5	—	6	—	—	—
Yugoslavia—						
Unground barytes ..	70,489	70,861	59,735	54,601	45,450	31,164
Ground barytes ..	11,245	15,709	15,209	17,124	16,175	15,963

*For Lithopone, see "Zinc".

EXPORTS OF BARIUM MINERALS, ETC. (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Algeria—						
Barytes	814	974	1,102	8,267	1,501	<i>n.a.</i>
Morocco—						
Barytes	73,522	66,010	80,813	71,695	106,234	90,061
South Africa—						
Barytes	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	132	4	—
Mexico—						
Barytes	124,655	216,270	144,371	174,259	216,067	188,535
Argentina—						
Barytes	827	626	25	54	59	229
Brazil—						
Barytes	41,723	50,196	26,684	57,958	21,738	47,998
Peru—						
Barytes	100,330	83,341	15,249	124,968	106,246	<i>n.a.</i>
Japan—						
Barytes	325	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	49	1,198
Chloride	—	9	16	135	285	1,652
Sulphate	77	49	74	77	2,050	77
Korea (South)—						
Barytes	936	294	1,661	2,560	1,096	—
Turkey—						
Barytes	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	—	3	1,162

IMPORTS OF BARIUM MINERALS; ETC.*

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Unground barytes	22,809	19,073	20,689	37,787	54,481	47,100
Ground barytes	15,232	8,369	7,330	8,817	12,598	9,790
Canada—						
Barytes	1,687	2,158	3,420	2,862	3,291	3,719
Blanc fixe	1,021	1,032	894	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Trinidad and Tobago—						
Barytes	30,380	42,230	40,403	51,711	27,296	50,358
India (a)—						
Barytes	7	8	3	4	11	—
Carbonate	160	1,064	1,254	611	333	9
Chloride	273	787	526	402	627	1
Sulphate	66	58	132	110	252	135
Pakistan—						
Barytes	392	82	9	110	<i>n.a.</i>	<i>n.a.</i>
Australia (b)—						
Witherite	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	79
Barytes ground	160	—	—	—	636	319
Barytes unground	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,571	1,108
Carbonate	204	371	539	661	547	598
Chloride	162	220	248	286	197	691
Sulphate incl. blanc fixe	530	261	330	269	331	282
Other compounds	130	—	—	—	—	—
New Zealand—						
Barytes and witherite ..	5,233	1,116	(b) 621	(b) 1,229	(b) 780	(b) 1,000
OTHER COUNTRIES						
Austria—						
Barytes	8,665	8,424	8,242	8,421	8,347	5,860
Carbonate	627	447	628	659	731	857
Chloride	315	291	281	327	365	330
Sulphate	287	273	225	376	478	404
Belgium-Luxemburg						
E. U.—						
Barytes and witherite ..	32,199	29,276	26,783	23,463	25,236	14,677
Barytes, ground						
Sulphate	1,881	1,732	1,453	2,761	1,743	1,956
Carbonate	573	1,446	837	977	795	898
Chloride	2,275	1,471	1,541	2,041	2,362	1,923
Sulphide	3,300	3,442	3,398	2,929	<i>n.a.</i>	<i>n.a.</i>
Denmark—						
Barytes	737	615	726	654	612	1,122
Carbonate	318	302	457	642	629	533
Chloride	231	140	169	186	189	201
Sulphate	306	298	381	362	814	1,514
Finland—						
Barytes	402	455	451	627	592	508
Witherite						
Chloride	136	305	89	227	353	160
Carbonate	141	186	463	579	806	679
Sulphate	733	880	1,043	1,408	1,270	1,616
France—						
Barytes	53,501	50,912	65,384	66,626	73,250	81,625
Witherite	154	3	5	1	16	2
Chloride	19	—	3	447	380	2
Carbonate	31	2	9	111	142	415
Sulphate	696	714	824	1,156	1,105	1,357

*For Lithopone, see "Zinc".

(a) Years ended March 31 following that stated.

(b) Years ended June 30 of that stated.

IMPORTS OF BARIUM MINERALS, ETC. (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES (cont.)						
Germany (Federal)—						
Barytes and witherite ..	9,804	1,094	5,761	44,972	53,190	29,364
Carbonate	1,709	246	497	2,234	3,815	3,648
Chloride	523	867	745	802	1,890	n.a.
Sulphate	331	78	153	190	128	307
Greece—						
Sulphate	206	230	329	292	283	330
Iceland—						
Sulphate	17	21	17	22	21	43
Italy—						
Barytes	r 10,920	19,099	21,224	27,418	18,429	40,328
Witherite	r 2	24	31	2	185	—
Carbonate	r 29	79	167	118	1,457	79
Chloride	—	—	13	24	12	71
Sulphate	r 537	848	990	1,202	1,274	1,623
Netherlands—						
Barytes and witherite ..	} 37,501	22,296	14,088	36,485	28,702	27,853
Barytes, ground						
Carbonate						
Chloride						
Sulphate	961	1,032	1,079	1,036	872	975
Norway—						
Barytes	580	354	616	532	454	1,887
Carbonate	461	336	337	463	485	484
Chloride	169	186	166	243	416	321
Sulphate	196	122	158	97	69	76
Poland—						
Barytes	9,307	n.a.	8,760	5,125	9,729	6,912
Portugal—						
Barytes	100	87	65	181	197	231
Chloride	28	96	5	1	5	6
Sulphate	145	191	184	212	273	176
Spain—						
Barytes	129	4	398	96	379	494
Sulphate	44	2	47	72	133	218
Sweden—						
Barytes and witherite ..	2,038	1,643	1,274	1,644	1,848	1,457
Carbonate	2,238	2,226	1,743	2,819	2,826	3,118
Chloride	395	237	248	296	372	280
Sulphate	1,505	1,822	2,234	2,351	2,640	2,399
Switzerland—						
Barytes	2,932	2,470	1,920	1,989	4,683	3,325
Sulphate	1,954	1,814	1,788	1,505	1,768	1,825
U.S.S.R.—						
Barytes	70,000	79,500	104,500	96,100	103,500	139,500
Malagasy Republic—						
Barytes and witherite ..	—	n.a.	—	2	64	—
Morocco—						
Barytes	12	11	12	15	4	n.a.
South Africa—						
Barytes	1,200	2,076	1,989	2,376	3,091	3,005
Barium compounds	400	342	303	n.a.	n.a.	n.a.
Tunisia—						
Barytes	809	2,163	1,416	4,281	10,009	n.a.
Mexico—						
Barytes	355	660	548	442	634	445
Carbonate	426	286	483	674	697	877
Chloride	298	451	420	500	735	599
United States—						
Unground barytes	543,000	657,793	516,159	535,669	635,931	624,000
Ground barytes	6,221	124	264	947	420	—
Witherite	1,610	1,341	2,482	2,171	2,317	1,989

IMPORTS OF BARIUM MINERALS, ETC. (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
United States <i>(cont.)</i> —						
Carbonate	1,063	1,340	748	929	737	1,027
Chloride	909	1,027	1,029	1,012	794	1,104
Sulphate	1,230	1,539	1,430	2,066	1,450	2,415
Argentina—						
Sulphate	203	336	16	58	378	142
Barium compounds ..	290	106	150	139	19	62
Brazil—						
Barytes	33	27	35	24	30	45
Carbonate	528	1,385	866	939	1,359	2,140
Chloride	896	602	982	383	983	1,051
Sulphate	585	560	588	392	530	340
Chile—						
Barytes	720	1,142	51	<i>n.a.</i>	2,376	<i>n.a.</i>
Carbonate	249	176	199	<i>n.a.</i>	79	<i>n.a.</i>
Chloride	—	20	—	<i>n.a.</i>	—	<i>n.a.</i>
Sulphate	6	232	7	<i>n.a.</i>	3	<i>n.a.</i>
Colombia—						
Barytes	—	—	—	—	1	—
Witherite	1	1	—	—	—	—
Carbonate	358	219	106	91	135	176
Chloride	4	67	55	84	33	54
Sulphate	7	9	17	20	7	42
Ecuador—						
Sulphate	662	10	305	579	447	<i>n.a.</i>
Peru—						
Carbonate	200	200	131	107	94	<i>n.a.</i>
Chloride	67	96	90	127	90	<i>n.a.</i>
Sulphate	70	15	44	44	65	<i>n.a.</i>
Uruguay—						
Sulphate	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	56	32
Venezuela—						
Barytes	3,596	3,500	53	17,058	17,124	12,009
Carbonate	48	33	25	40	55	35
Chloride	618	229	453	218	352	56
Sulphate	46	56	87	121	104	79
Formosa—						
Carbonate	30	49	54	136	182	98
Chloride	26	37	42	35	30	64
Iraq—						
Barytes	342	218	32	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Israel—						
Barytes	120	200	476	455	425	518
Japan—						
Barytes	8,863	5,797	5,811	11,164	14,084	38,552
Lebanon—						
Barytes and witherite ..	3	52	227	206	20	7
Turkey—						
Barytes	63	6	10	2,416	197	730
Carbonate	102	98	61	9	62	123
Chloride	8	160	1	108	162	270
Sulphate	342	973	741	42	40	94

BENTONITE
(see also Fuller's Earth)
PRODUCTION OF BENTONITE

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Tanzania (d)	245	—	—	5	—	50
Cyprus (a)	—	—	536	1,528	3,190	2,658
India	(b) 11,000	(b) 14,000	25,120	21,176	n.a.	n.a.
Pakistan	967	393	n.a.	n.a.	n.a.	n.a.
Australia—						
Bentonite	r 120	r 211	r 197	158	160	159
Bentonitic clay	r 774	r 573	r 1,333	841	1,027	667
New Zealand	1,661	1,488	1,660	1,806	2,926	2,416
OTHER COUNTRIES						
Austria	3,528	3,178	2,744	3,072	3,973	1,660
Greece	25,000	20,352	r 34,788	45,846	n.a.	n.a.
Hungary	73,602	82,780	110,917	96,830	105,000	90,000
Italy	154,864	125,465	157,586	r 129,665	153,295	211,892
Spain	7,222	11,975	13,945	14,239	n.a.	n.a.
Yugoslavia	17,711	(b) 20,000	n.a.	n.a.	n.a.	n.a.
Mozambique	n.a.	n.a.	n.a.	903	2,680	3,805
South Africa	4,042	5,555	7,691	9,166	10,783	11,716
United States (c)	1,167,135	1,289,406	1,414,746	1,544,199	1,685,667	1,839,836
Argentina	31,354	n.a.	n.a.	n.a.	41,871	n.a.
Peru	395	261	365	654	4,941	1,637
Turkey	n.a.	n.a.	(b) 2,000	(b) 2,000	(b) 2,000	(b) 2,000

Bentonite is also produced in Canada, France, Germany, Algeria, Morocco, and Japan.

(a) Exports of bentonitic clay.

(c) Sold or used by producers.

(b) Estimated.

(d) Exports.

EXPORTS OF BENTONITE

Long tons

Exporting Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Tanzania	245	—	—	5	—	50
Cyprus (a)	—	—	536	1,528	3,190	2,658
India	289	214	22	66	587	302
OTHER COUNTRIES						
Austria	32	86	36	3	90	59
Germany (Federal)	1,127	702	206	232	583	1,008
Greece	13,210	15,553	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Italy	19,053	27,788	29,586	r 22,147	20,893	28,869
Spain	1,624	2,396	2,186	5,536	3,196	1,695
Yugoslavia	9,405	8,570	12,846	17,358	14,006	13,483
Morocco	7,948	7,095	6,253	8,401	6,060	10,226
South Africa	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	41	1,504	1,726
United States	39,119	53,853	<i>n.a.</i>	<i>n.a.</i>	203,157	270,354
Argentina	4,595	6,779	5,214	5,548	5,135	6,340

(a) Bentonitic clay.

IMPORTS OF BENTONITE

Long tons

Importing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Canada	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	102,184	162,645	171,617
India	75	141	159	904	57	77
Australia (a)	6,895	9,205	10,727	r 14,060	16,054	15,104
OTHER COUNTRIES						
Austria	4,669	5,971	9,976	13,604	17,814	16,523
Germany (Federal)	3,828	3,550	3,859	4,550	11,374	5,931
Italy	r 3,918	r 4,342	3,955	4,642	4,775	2,615
Poland	6,536	<i>n.a.</i>	8,344	8,668	3,648	3,785
Portugal	1,050	1,348	1,322	1,547	1,579	2,024
Spain	2,291	4,046	6,851	8,859	12,309	14,963
Sweden	9,649	2,053	2,127	5,804	4,849	5,423
Morocco	37	45	12	20	4	<i>n.a.</i>
South Africa	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,514	<i>n.a.</i>	<i>n.a.</i>
United States	652	247	<i>n.a.</i>	160	389	<i>n.a.</i>
Brazil	3,603	7,091	6,116	8,069	4,476	8,482
Chile	<i>n.a.</i>	<i>n.a.</i>	918	<i>n.a.</i>	1,817	<i>n.a.</i>
Colombia	2,301	2,337	2,599	2,194	1,806	3,034
Ecuador	178	117	125	352	417	<i>n.a.</i>
Uruguay	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	6	52
Venezuela	3,722	4,092	2,784	4,540	3,687	3,462

(a) Including bentonitic clay.

BERYL
PRODUCTION OF BERYL

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Kenya	1	—	—	1	—	—
Rhodesia	354	498	222	162	(c) 85	n.a.
Swaziland	6	—	2	—	—	—
Uganda	1,015	996	r 354	409	188	278
India (a)	790	134	—	—	1,345	446
Australia	306	223	110	111	38	13
OTHER COUNTRIES						
Portugal	34	17	2	18	39	12
Sweden	—	(a) 24	(a) —	(a) 44	(a) —	(a) —
Congo Republic	164	272	210	121	19	n.a.
Malagasy Republic	746	663	405	209	20	12
Mozambique	943	560	548	399	216	79
Rwanda and Burundi	468	351	252	281	n.a.	131
South Africa	171	321	379	135	41	21
South West Africa	225	142	54	7	52	21
United States (b)	1,002	873	671	n.a.	n.a.	n.a.
Argentina	419	220	186	185	374	246
Brazil	1,111	987	467	567	440	418
Korea (South)	5	—	—	—	—	—
TOTAL*	7,800	6,300	3,900	3,000	4,000	2,500

*Excluding beryl known to have been produced in the U.S.S.R.

(a) Imports into the United States.

(b) Shipments from mine. Including lower grade beryllium ore as follows:

1961—719 long tons; 1962—679 long tons; 1963—670 long tons; 1964—nil; 1965—nil; 1966—nil.

(c) Exports.

EXPORTS OF BERYL

Long tons

Exporting Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Rhodesia (b)	381	451	268	142	85	<i>n.a.</i>
Uganda	871	1,064	341	466	272	222
India (a)	790	134	—	—	1,346	446
Australia	167	218	129	93	50	37
OTHER COUNTRIES						
Italy	<i>r</i> 36	—	—	—	—	325
Portugal	—	—	<i>n.a.</i>	<i>n.a.</i>	54	10
Congo Republic	(a) 196	(a) 433	(a) 455	(a) 225	(a) 1,201	(a) —
Malagasy Republic ..	827	713	223	235	62	6
Mozambique	957	216	731	376	218	81
South Africa	64	312	266	82	96	31
South West Africa ..	91	115	36	10	24	2
Argentina	1,329	890	739	395	156	244
Brazil	3,128	2,963	1,937	1,379	1,095	695

(a) Imports into the United States.

(b) Figures for years 1961 to 1963 relate to Rhodesia and Nyasaland.

IMPORTS OF BERYL*

Long tons

Importing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom (a) ..	26	5	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
OTHER COUNTRIES						
France	776	601	120	375	<i>n.a.</i>	402
Italy	<i>r</i> 787	—	—	—	—	—
United States	7,603	7,636	5,574	4,844	6,956	1,917

*Imports of Beryl are not recorded separately in the trade returns of most countries.

(a) Not separately recorded in official trade returns. Figures represent exports to the United Kingdom from certain producing countries and are not necessarily complete.

BISMUTH
PRODUCTION OF BISMUTH ORE, ETC.*

Long tons

Producing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Uganda—						
Ore (<i>Bi content</i>) ..	1	—	—	—	—	—
Canada—						
Metal plus content of bullion and concentrates exported ..	213	190	160	179	191	337
OTHER COUNTRIES						
France—						
Mispickel (<i>Bi content</i>) ..	52	62	67	68	60	62
Spain—						
Ore (<i>Bi content</i>) ..	9	2	4	—	—	—
Sweden—						
Metal (<i>c</i>)	35	69	69	67	34	34
Yugoslavia—						
Metal	97	89	87	82	87	102
Mozambique—						
Ore (<i>Bi content</i>) ..	22	8	14	9	6	<i>n.a.</i>
South Africa—						
Ore (<i>Bi content</i>) ..	—	—	1	—	—	—
South West Africa—						
Ore	1	—	—	5	1	—
Mexico—						
Ore (<i>Bi content</i>) ..	1,047	350	420	465	477	447
Argentina—						
Concentrates (<i>Bi content</i>) ..	4	3	1	—	—	—
Bolivia (<i>b</i>)—						
Ore, etc. (<i>Bi content</i>) ..	208	291	276	270	292	367
Peru—						
Concentrates (<i>a</i>) (<i>Bi content</i>)	1	3	4	14	61	} 733
Lead bars (<i>Bi content</i>) ..	78	51	83	46	88	
Metal	382	430	468	664	646	
Japan—						
Ore (<i>Bi content</i>) ..	1,006	1,184	226	—	<i>n.a.</i>	<i>n.a.</i>
Korea (South)—						
Ore (<i>Bi content</i>) ..	149	158	156	(<i>c</i>) 500	<i>n.a.</i>	98

*Bismuth ore has also been produced in Germany, Roumania, Burma and China and the metal recovered as a by-product in the United Kingdom, U.S.S.R., United States and Japan.

(a) Recoverable.

(b) Exports.

(c) United States Bureau of Mines' estimate.

EXPORTS OF BISMUTH, ETC.

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Bismuth.. ..	382	509	603	717	530	325
Bismuth salts	214	142	<i>n.a.</i>	55	43	48
Uganda—						
Ore (<i>Bi content</i>)	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1	—
Canada—						
Bismuth.. ..	174	171	178	134	<i>n.a.</i>	<i>n.a.</i>
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Bismuth (<i>a</i>)	51	64	120	146	84	115
France—						
Bismuth (<i>a</i>)	64	44	46	60	58	70
Germany (Federal)—						
Bismuth.. ..	136	137	114	58	71	98
Netherlands—						
Bismuth (<i>a</i>)	148	149	178	155	276	225
Bismuth salts	21	67	79	47	48	45
Yugoslavia—						
Bismuth.. ..	70	64	57	38	54	46
South Africa—						
Ore	1	—	—	—	1	—
Mexico—						
Bismuth, refined	91	122	141	171	145	271
do. impure bars	1,323	295	263	393	408	242
United States—						
Matte, residues, etc.	67	104	2	6	<i>n.a.</i>	<i>n.a.</i>
Metal and alloys	75	53	14	21	153	40
Argentina—						
Ore	—	—	—	—	15	—
Bolivia—						
Ore, etc. (<i>Bi content</i>)	208	291	276	270	292	367
Peru—						
Bars, etc. (<i>Bi content</i>)	326	731	495	730	730	<i>n.a.</i>
Japan—						
Bismuth.. ..	48	87	159	245	134	251
Korea (South)—						
Bismuth, unwrought	56	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

(a) Including scrap.

IMPORTS OF BISMUTH, ETC.

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Bismuth (c)	216	528	422	609	370	368
Unwrought alloys ..	340	348	278	379	290	150
Canada—						
Bismuth	8	25	3	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Bismuth salts	6	5	3	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
India (a)—						
Bismuth and alloys ..	60	44	41	56	26	46
Australia (b)—						
Bismuth	17	12	16	17	11	8
Bismuth salts	12	7	8	7	7	1
New Zealand—						
Bismuth and its salts ..	1	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Bismuth	40	98	1,181	71	37	98
Bismuth salts	66	74	81	84	98	68
France—						
Bismuth (c)	508	556	654	773	689	737
Germany (Federal)—						
Bismuth (c)	232	276	250	254	230	258
Italy—						
Bismuth	35	39	43	41	44	102
Bismuth salts	3	5	<i>n.a.</i>	23	<i>n.a.</i>	4
Netherlands—						
Bismuth salts	60	86	119	104	87	123
Poland—						
Bismuth	20	<i>n.a.</i>	71	97	66	59
Spain—						
Bismuth	23	17	8	21	11	10
Morocco—						
Bismuth salts	15	13	10	8	38	<i>n.a.</i>
Mexico—						
Bismuth salts	8	5	8	10	5	1
United States—						
Bismuth	341	358	502	551	615	751
Argentina—						
Bismuth and its salts ..	5	1	3	9	17	16
Brazil—						
Bismuth	5	7	11	2	12	10
Bismuth salts	18	4	13	16	11	21
Chile—						
Bismuth	2	—	5	<i>n.a.</i>	1	<i>n.a.</i>
Colombia—						
Bismuth salts	4	5	8	6	1	3
Peru—						
Bismuth salts	1	1	1	1	1	<i>n.a.</i>
Japan—						
Bismuth	2	2	3	2	32	2
Turkey—						
Bismuth salts	4	5	5	3	5	5

(a) Years ended March 31 following that stated.

(c) Including scrap.

(b) Years ended June 30 of that stated.

BORATES
PRODUCTION OF CRUDE BORATES

Long tons

Producing Country and Description	1961	1962	1963	1964	1965	1966
Italy— Boric acid	1,745	1,356	506	314	85	—
United States (a)— Borates	538,047	577,333	625,163	693,106	721,000	773,000
Argentina— Borates	6,728	14,271	<i>n.a.</i>	<i>n.a.</i>	45,000	45,000
Chile— Boron minerals ..	157	3,754	5,870	3,262	4,441	3,683
Turkey— Borates	63,999	112,141	86,697	126,228	168,277	221,728

Borates are known to have been produced in the U.S.S.R., Germany, Iran and Tibet.

(a) Sold or used by producers.

EXPORTS OF BORATES

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Borax	656	667	620	917	881	441
Other borates and perborates	<i>n.a.</i>	<i>n.a.</i>	6,289	9,835	11,825	11,087
OTHER COUNTRIES						
Austria—						
Perborates	2,077	1,710	2,020	2,287	3,132	3,923
Belgium-Luxemburg E.U.—						
Boron minerals	2	3	20	10	—	41
Borax, refined	100	2	7	12	179	10
Boric acid	10	7	—	1	4	4
Borates and perborates	2,881	4,062	3,375	5,626	6,625	8,625
France—						
Boron minerals	64	122	348	667	1,193	2,086
Borax, refined	3,094	3,273	6,300	7,086	6,442	7,333
Boric acid	3,056	5,496	10,865	13,166	13,547	13,995
Borates and perborates	955	4,466	5,669	7,935	4,676	7,994
Germany (Federal)—						
Borax	79	210	106	95	102	109
Boric acid	111	62	60	82	76	51
Borates and perborates	8,432	8,590	8,807	12,239	13,596	20,813
Italy—						
Boric acid	3,578	3,999	4,365	5,954	5,426	4,865
Borax, refined	905	1,537	2,489	2,056	1,129	1,077
Perborates	1,232	702	343	237	407	401
Netherlands—						
Boron minerals	<i>n.a.</i>	—	20	84,194	131,437	167,599
Borax, refined	167	421	257	8,593	34,739	43,762
Boric acid	22	31	44	25	23	37
Perborates	—	—	41	<i>n.a.</i>	—	5
Sweden—						
Perborate of sodium	16	71	30	42	42	23
Switzerland—						
Borates and perborates	2,242	1,941	1,639	1,535	2,012	2,327
Yugoslavia—						
Perborates	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	357	389
United States—						
Borax, borates and boric acid	240,421	260,950	302,600	342,054	(b) 155,371	(b) 185,142
Argentina—						
Borates of calcium and sodium	2,239	3,516	5,324	875	200	157
Japan—						
Borax	4	(a) 14	19	83	104	101
Boric acid	5	8	10	31	11	12
Turkey—						
Borates	63,305	87,081	90,094	116,538	150,154	172,556

(a) Including other borates and perborates.

(b) Borax and boric acid only.

IMPORTS OF BORATES

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Boron minerals	21,438	21,591	25,870	29,893	41,641	<i>n.a.</i>
Borax	22,412	21,497	21,389	27,279	21,848	20,946
Boric acid	3,773	3,475	<i>n.a.</i>	3,255	3,068	4,741
Rhodesia (c)—						
Borax	117	139	113	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Boric acid	13	12	12	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Canada—						
Borax	10,465	11,631	13,023	9,390	8,601	9,360
Boric acid	2,018	2,378	1,352	1,463	2,393	3,280
Hong Kong—						
Borax, refined	3,163	3,778	3,356	3,724	3,626	3,735
Boric acid	160	97	122	123	144	187
India—						
Borax	6,217	4,807	5,995	8,683	8,986	2,137
Boric acid (b)	1,046	638	1,041	2,421	571	25
Pakistan—						
Borax	404	287	340	445	<i>n.a.</i>	<i>n.a.</i>
Australia (a)—						
Boron minerals	1,093	1,833	1,912	975	1,293	1,870
Boron salts	4,311	3,417	3,988	4,462	4,316	(d) 3,454
Boric acid	1,046	1,009	1,168	1,304	1,425	1,350
New Zealand—						
Borax, crude	1,088	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Boric acid	388	477	(a) 422	(a) 1,450	(a) 1,411	(a) 633
Borates and perborates	<i>n.a.</i>	<i>n.a.</i>	(a) 2,653	(a) 2,338	(a) 2,920	<i>n.a.</i>
Irish Republic—						
Borax	1,001	1,109	1,305	1,035	857	962
OTHER COUNTRIES						
Austria—						
Boron minerals	4,103	4,112	3,634	5,447	5,043	5,698
Borates	1	3	24	27	23	57
Boric acid	6	2	5	22	185	31
Perborates	5	5	153	3	2	2
Belgium-Luxemburg						
E.U.—						
Boron minerals	107	132	205	922	1,484	11,632
Borax, refined	4,306	5,055	6,283	9,507	8,400	3,083
Boric acid	1,038	373	551	717	588	1,502
Borates and perborates	2,514	2,001	1,966	2,485	2,486	3,665
Denmark—						
Boron minerals	569	903	799	925	1,353	1,292
Borax	118	156	131	140	152	176
Boric acid	98	99	104	135	130	101
Borates and perborates	2,073	2,660	2,250	3,209	4,668	5,347
Finland—						
Boron minerals	1	1,024	784	1,496	2,333	2,390
Borax	779	753	918	557	758	589
Boric acid	137	192	118	172	115	187
Borates and perborates	1,340	1,483	1,649	2,288	1,840	2,140
France—						
Boron minerals	25,584	32,028	39,115	46,436	66,238	72,025
Borax refined	13,990	17,586	21,424	25,671	25,311	22,002
Boric acid	1,589	1,432	419	613	414	814
Borates and perborates	560	548	727	614	729	1,082

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

(c) Figures for years 1961 to 1963 relate to Rhodesia and Nyasaland.

(d) Owing to reclassification not strictly comparable with earlier years.

IMPORTS OF BORATES (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (Federal)—						
Boron minerals	37,736	32,262	43,920	47,850	54,183	64,819
Boric acid	6,275	7,406	6,737	10,906	11,339	11,005
Borax	12,580	13,266	15,359	20,600	20,399	16,588
Borates and perborates	214	213	148	1,136	1,396	1,447
Greece—						
Boron minerals	198	103	306	310	333	458
Borax	—	16	32	1	17	18
Boric acid	29	23	19	37	39	61
Italy—						
Boron minerals	r 37,211	r 57,287	49,383	r 53,637	82,184	72,417
Borax	r 3,637	r 3,902	6,123	r 6,683	7,284	9,540
Boric acid	6	163	180	108	20	—
Borates	r 181	r 280	74	}r 5,958	1,876	5,297
Perborates	168	301	1,221			
Netherlands—						
Boron minerals	2,078	3,770	3,445	90,726	162,366	170,902
Borax	10,674	10,166	11,164	20,691	46,352	50,014
Boric acid	1,572	1,431	1,974	2,333	2,425	1,643
Perborates	3,390	4,310	3,703	5,195	5,890	8,290
Norway—						
Borax	2,241	1,348	1,758	2,492	1,705	2,395
Boric acid	823	629	291	726	604	156
Perborate of sodium ..	1,573	2,053	1,709	2,018	1,897	2,321
Portugal—						
Boric acid	83	86	100	163	125	129
Borax	776	1,014	1,103	1,355	1,198	1,818
Spain—						
Boron minerals	5,167	8,667	6,644	10,876	8,757	13,156
Boric acid	—	—	6	316	678	660
Borates and perborates	9	184	37	730	763	1,262
Sweden—						
Borax	2,879	3,731	3,367	4,166	5,412	2,590
Boric acid	349	258	427	418	539	793
Perborate of sodium ..	3,049	3,407	2,970	4,662	6,095	6,937
Switzerland—						
Borax (a)	86	135	155	206	436	459
Boric acid	253	471	456	583	479	566
Borates	4,010	4,569	4,350	4,737	5,129	5,134
Perborates	298	478	468	4	293	123
U.S.S.R.—						
Borax	14,200	6,300	7,300	15,000	9,800	10,000
Yugoslavia—						
Boron minerals	n.a.	n.a.	n.a.	n.a.	598	1,352
Boric acid	339	361	366	408	703	550
Borates	n.a.	n.a.	n.a.	n.a.	1,599	2,913
Perborates	n.a.	n.a.	n.a.	n.a.	184	1,550
Angola—						
Borax	38	11	39	24	75	43
Egypt—						
Borax	610	227	n.a.	n.a.	n.a.	n.a.
Boric acid	213	1	n.a.	n.a.	n.a.	n.a.
Morocco—						
Borates	88	276	414	317	439	n.a.
Perborates	26	10	35	16	36	n.a.
Mozambique—						
Borax	7	4	6	8	5	4
Boric acid	1	1	2	1	3	2
South Africa—						
Boron minerals	n.a.	n.a.	n.a.	99	14	804
Borax	1,983	1,675	1,341	n.a.	n.a.	n.a.
Boric acid	181	343	193	574	236	n.a.
Borates and perborates	n.a.	n.a.	n.a.	2,273	3,942	3,985

(a) Crude borax only.

IMPORTS OF BORATES (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Tunisia—						
Borax etc.	42	36	20	19	34	<i>n.a.</i>
Mexico—						
Borax	4,141	4,134	5,937	2,390	<i>n.a.</i>	<i>n.a.</i>
Boric acid	737	814	822	950	1,425	1,853
Brazil—						
Boron minerals	1,077	1,082	—	—	49	1,161
Boric acid	586	873	967	1,004	865	910
Borax	4,479	6,212	7,944	7,895	7,089	7,782
Borates	2	1	1	—	6	3
Colombia—						
Borax	375	616	961	357	226	1,174
Boric acid	225	210	322	189	115	521
Perborate of sodium	63	99	104	109	68	92
Ecuador—						
Borax	25	4	18	34	52	<i>n.a.</i>
Boric acid	13	9	10	16	17	<i>n.a.</i>
Peru—						
Borax	324	356	331	347	392	<i>n.a.</i>
Boric acid	104	51	123	88	108	<i>n.a.</i>
Uruguay—						
Borates	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	113	303
Venezuela—						
Borax	262	382	584	1,515	1,899	1,092
Boric acid	207	102	87	142	192	127
Formosa—						
Borax	559	981	1,100	1,442	1,848	1,634
Boric acid	76	92	69	110	109	91
Iran (a)—						
Borax	180	227	316	230	178	292
Boric acid	6	10	11	23	7	22
Israel—						
Borates	<i>n.a.</i>	661	310	493	429	<i>n.a.</i>
Perborate of sodium	73	88	295	271	321	<i>n.a.</i>
Japan—						
Borax	17,164	20,154	24,482	26,951	26,474	28,621
Boric acid	5,032	5,775	6,028	7,351	6,106	7,954
Korea (South)—						
Borax	296	<i>n.a.</i>	444	663	1,425	653
Lebanon—						
Borates	344	445	584	796	1,071	1,330
Perborates						
Philippine Republic—						
Boric acid	36	34	105	110	203	<i>n.a.</i>
Thailand—						
Borax	565	863	460	467	560	512
Boric acid	97	80	101	107	57	95
Turkey—						
Borax	235	348	537	590	160	699
Boric acid	48	1	8	21	7	11
Borates and perborates	—	20	51	49	160	266

(a) Years ended March 20 following that stated.

BROMINE
PRODUCTION OF BROMINE

Lb. avdp.

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
India	397,000	459,000	608,000	317,000	26,000	210,000
OTHER COUNTRIES						
France (a)	4,039,000	3,571,000	4,259,000	5,858,000	6,177,000	<i>n.a.</i>
Germany (Federal)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	5,434,000	6,493,000	7,000,000
Italy	2,153,560	2,207,535	2,562,428	3,537,402	<i>n.a.</i>	<i>n.a.</i>
United States (a) (b)	180,798,000	190,747,000	203,333,000	238,019,000	274,569,000	275,009,000
Israel	(c)9,700,000	<i>n.a.</i>	<i>n.a.</i>	8,400,000	(a)9,300,000	9,300,000
Japan	6,120,000	6,360,000	6,120,000	6,360,000	<i>n.a.</i>	<i>n.a.</i>

Bromine is also produced in the United Kingdom (from sea water) and Spain.

(a) Sales.

(b) Including bromine content of compounds.

(c) Year ended 31st March, 1962.

EXPORTS OF BROMINE, ETC.

Lb. avdp.

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom— Bromides	647,700 (£79,347)	<i>n.a.</i> <i>n.a.</i>	(a) (£138,775)	(a) (£180,195)	(a) (£181,972)	(a) (£161,337)
OTHER COUNTRIES						
Belgium-Luxemburg E.U.—						
Bromine	—	—	—	33,069	2,205	—
Bromides, etc.	700	200	—	16,314	7,496	32,200
France—						
Bromine	901,200	842,000	1,682,127	2,153,916	2,427,289	2,416,000
Bromides	1,380,500	1,817,000	1,732,833	2,087,777	1,856,292	2,848,000
Germany (Federal)—						
Bromides	168,900	<i>n.a.</i>	131,000	177,500	72,500	76,500
Italy—						
Bromine	—	r 838	—	r 215,389	186,300	205,300
Bromides	r 2,573	13,237	15,873	r 35,133	1,100	5,500
Netherlands—						
Bromides, etc.	<i>n.a.</i>	<i>n.a.</i>	1,027,000	1,045,000	664,000	628,000
United States—						
Bromine and compounds (b)	11,120,085	8,800,351	10,839,960	17,036,442	<i>n.a.</i>	<i>n.a.</i>
Israel—						
Bromine	2,313,000	2,523,000	2,193,000	<i>n.a.</i>	6,867,000	4,967,000
Japan—						
Bromine	22,300	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Bromine compounds	27,818	208,052	277,725	390,172	796,828	557,990

(a) Quantity not available; value shown relates to all bromides and bromates.

(b) Including organic compounds.

IMPORTS OF BROMINE, ETC.

Lb. avdp.

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Canada—						
Bromine	62,007	35,415	39,389	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Bromide of soda	106,103	77,906	100,077	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
India (b)—						
Bromine	302,000	456,141	397,895	265,961	113,238	3,146
Bromide of potash	1,850	1,629	22,046	602	694	1,008
Bromide of soda	50	—	22,046	—	16,480	5,278
Australia (a)—						
Bromate of potash	25,877	38,276	44,406	42,096	103,595	145,429
Bromide of potash	98,664	51,913	65,364	78,978		
Bromates and bromides of soda	83,009	69,335	69,064	94,734	97,085	72,778
Other bromates and bromides	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	137,283
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Bromine	15,400	32,600	27,600	37,000	30,000	44,800
Bromides, etc.	911,400	870,400	957,200	1,465,000	902,100	1,162,300
Denmark—						
Bromine	31,700	11,000	11,000	6,600	18,000	24,000
Bromide of potash	11,500	22,000	11,000	8,800	18,000	11,000
Bromide of soda	24,300	90,000	44,100	94,800	130,000	148,000
Other bromides	<i>n.a.</i>	<i>n.a.</i>	46,297	39,683	40,000	35,000
Finland—						
Bromine	6,032	2,015	2,646	1,733	1,664	2,520
France—						
Bromine	—	—	6,600	253,500	—	13,000
Bromides	3,100	18,000	13,200	33,100	156,500	104,000
Germany (Federal)—						
Bromides	22,900	<i>n.a.</i>	238,800	399,300	755,700	887,700
Greece—						
Bromine	1,629	606	454	2,313	1,486	2,652
Bromides, etc.	15,743	21,936	13,794	31,456	24,837	<i>n.a.</i>
Italy—						
Bromine	1,023,600	<i>r</i> 566,288	111,995	<i>r</i> 177,700	49,400	26,455
Bromides	22,500	<i>r</i> 148,792	252,650	<i>r</i> 155,100	280,900	286,601
Netherlands—						
Bromine	—	—	1,157,000	911,000	1,543,000	1,391,000
Bromides, etc.	247,000	326,000	245,000	327,000	282,000	165,000
Norway—						
Bromine	2,000	2,000	—	—	2,000	—
Portugal—						
Bromine	1,100	882	220	441	661	882
Bromide of soda	20,700	9,500	12,800	32,600	5,700	6,614
Bromide of potash						
Bromide of ammonium						
Spain—						
Bromine	4	13,129	31,284	75	381,347	110,284
Bromides	<i>n.a.</i>	<i>n.a.</i>	82,978	85,608	76,053	78,773
Sweden—						
Bromine	22,000	9,000	17,637	2,205	—	—
Yugoslavia—						
Bromine	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	14,185	8,045
Bromides, bromates, etc.	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	31,110	65,319
Morocco—						
Bromides	11,691	7,072	5,344	6,241	3,604	<i>n.a.</i>

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

IMPORTS OF BROMINE, ETC. (cont.)

Lb. avdp.

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
South Africa—						
Bromine	14,457	1,826	9,956	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Mexico—						
Bromine	49,423	130,723	84,433	100,650	79,735	80,281
Bromides of potash and soda	72,087	64,415	22,368	40,730	41,277	29,657
United States—						
Bromine and compounds	293,582	461,108	374,012	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Argentina—						
Bromine and compounds	206,086	284,050	239,598	342,552	300,131	186,026
Brazil—						
Bromine	1,512	2,473	344	743	408	30,206
Bromides	672,000	668,627	573,332	332,298	514,676	624,281
Chile—						
Bromine	562	1,497	871	<i>n.a.</i>	1,457	<i>n.a.</i>
Bromides	1,285	944	1,105	<i>n.a.</i>	44	<i>n.a.</i>
Colombia—						
Bromine	—	—	1,181	2,571	1,243	—
Bromides, etc. ..	14,125	16,795	17,331	25,153	13,369	27,941
Peru—						
Bromine	522	269	926	324	328	<i>n.a.</i>
Bromides	5,593	6,620	7,311	6,660	14,987	<i>n.a.</i>
Iran (a)—						
Bromides	47,772	31,654	22,578	36,564	11,872	3,450
Japan—						
Bromine compounds ..	7	6,700	26,440	40,431	60,777	165,115
Philippine Republic—						
Bromide of potash ..	<i>n.a.</i>	<i>n.a.</i>	21,599	4,683	4,497	<i>n.a.</i>
Thailand—						
Bromide of potash ..	25,513	12,946	19,207	19,619	31,603	27,750
Turkey—						
Bromine	456	—	322	176	324	463
Bromides	3,622	6,285	7,209	10,748	21,343	13,623

(a) Years ended March 20 following that stated.

CADMIUM
PRODUCTION OF CADMIUM

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom	97	106	110	194	217	181
Zambia	19	17	15	14	18	12
Canada (b)	992	1,163	1,105	1,238	784	1,445
Australia	311	353	486	494	516	527
OTHER COUNTRIES						
Austria	19	22	19	19	21	21
Belgium	1,000	1,000	1,000	1,000	800	(e) 650
France	250	253	292	484	421	440
Germany (Federal)	425	250	219	314	322	350
Italy	341	243	277	273	269	241
Netherlands (e)	85	95	100	105	90	100
Norway	103	113	107	111	77	71
Poland (g)	390	390	410	410	420	425
Spain	25	34	59	60	(e) 60	(e) 60
U.S.S.R. (g)	1,500	1,600	1,700	1,800	1,900	1,900
Yugoslavia	(g) 39	(g) 39	(g) 39	(g) 40	(g) 40	(g) 40
Congo Republic	524	290	389	464	393	414
South West Africa (a)	780	544	472	315	535	433
Guatemala	39	4	3	—	2	1
Honduras	5	14	86	103	87	n.a.
Mexico (c)	764	598	713	737	713	799
United States—						
Metal (d)	4,672	4,972	4,460	4,669	4,317	4,670
Ecuador	n.a.	n.a.	n.a.	2	1	n.a.
Peru (f)	129	126	189	223	322	n.a.
Japan	713	869	996	1,196	1,456	1,476
Philippine Republic	—	1	11	11	10	5
TOTAL*	12,000	12,000	12,000	13,000	13,000	13,000

*In the case of South West Africa and Mexico the metal is wholly or mainly extracted in other countries and, to avoid duplication, is excluded from the total. A certain amount of duplication in the case of certain other countries, however, is unavoidable.

Cadmium is also reported to be produced in Bulgaria.

(a) Estimated cadmium content of copper-lead-zinc concentrates produced and exported for treatment, plus, as from 1965, production of metal.

(b) Metal produced plus cadmium content of concentrates exported.

(c) Including cadmium content of flue dust, etc., exported for treatment.

(d) Including secondary.

(e) Estimate. Source: "Metallgesellschaft".

(f) Including recoverable cadmium content of concentrates.

(g) Estimate. Source: United States Bureau of Mines.

EXPORTS OF CADMIUM, ETC.

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Zambia (e)	5	35	19	13	13	8
Canada	888	1,045	866	725	609	898
Australia	156	194	325	340	449	512
OTHER COUNTRIES						
Belgium-Luxemburg E.U. (a) ..	888	828	867	829	724	573
France—						
Cadmium (a)	23	21	64	76	102	45
Cadmium sulphide ..	5	18	4	—	—	2
Germany (Federal)—						
Cadmium (a)	77	63	48	52	109	136
Cadmium oxide	24	32	18	9	<i>n.a.</i>	<i>n.a.</i>
Italy—						
Cadmium (a)	41	82	3	14	12	93
Netherlands (a)	118	174	242	183	302	262
Norway	92	86	85	72	97	69
Poland	341	<i>n.a.</i>	285	292	393	334
U.S.S.R.	1,040	1,100	984	689	900	600
Yugoslavia	<i>n.a.</i>	<i>n.a.</i>	50	2	<i>n.a.</i>	<i>n.a.</i>
Congo Republic (d) ..	500	300	600	350	400	400
South West Africa (b) ..	780	544	472	315	271	411
Mexico (c)	696	534	1,073	953	955	1,110
United States—						
Metal, alloys, dross, flue dust, etc.	313	320	586	643	33	169
Peru	93	117	147	205	220	<i>n.a.</i>
Japan	22	255	1,175	345	705	648

(a) Including scrap.

(b) Cadmium content of concentrates exported for treatment plus, as from 1966, exports of metal.

(c) Including cadmium content of flue dust, etc., exported for treatment.

(d) Estimated.

(e) Figures for years 1961 to 1963 relate to Rhodesia and Nyasaland.

IMPORTS OF CADMIUM, ETC.

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom	1,149	1,157	1,380	1,549	1,375	638
India (a)	71	41	60	105	151	62
OTHER COUNTRIES						
Austria	23	12	15	12	12	8
Belgium-Luxemburg						
E.U. (b)	122	158	481	222	327	514
Denmark	42	36	29	21	23	15
France—						
Cadmium (b)	641	840	795	567	403	540
Cadmium sulphide	22	18	18	12	15	17
Germany (Federal)—						
Cadmium (b)	797	903	987	890	1,177	1,129
Cadmium oxide	31	54	62	73	<i>n.a.</i>	<i>n.a.</i>
Italy—						
Cadmium (b)	57	83	73	47	41	56
Cadmium oxide	16	23	15	15	1	15
Cadmium sulphide	7	9	<i>n.a.</i>	12	<i>n.a.</i>	<i>n.a.</i>
Netherlands—						
Cadmium (b)	133	213	186	174	247	257
Cadmium salts	26	24	48	75	78	92
Spain	6	21	10	16	12	21
Sweden	129	102	185	140	110	215
U.S.S.R.	329	329	255	153	233	179
Yugoslavia	1	—	—	12	13	9
United States—						
Cadmium	482	499	342	493	947	1,499
Flue dust (cadmium content)	107	701	333	568	580	527
Argentina—						
Cadmium and salts	5	2	1	1	3	2
Brazil—						
Cadmium	38	34	46	28	33	56
Cadmium salts	—	1	—	—	—	—
Japan	<i>n.a.</i>	10	16	22	23	14

(a) Years ended March 31 following that stated.

(b) Including scrap.

CEMENT
PRODUCTION OF CEMENT

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom ..	14,149,000	14,028,000	13,837,000	16,698,000	16,704,000	16,860,000
Kenya	324,717	340,905	338,000	415,000	476,000	463,000
Malawi	36,000	32,000	25,000	31,000	31,000	43,000
Nigeria	357,000	475,000	519,000	653,000	967,000	986,000
Rhodesia	275,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Uganda	61,925	55,051	54,282	71,524	132,662	120,000
Zambia	120,000	117,000	114,000	r 149,000	218,000	252,000
Canada (a)	5,541,025	6,141,722	6,262,198	7,006,593	7,462,234	8,010,838
Jamaica	212,303	196,520	197,550	277,465	311,069	349,819
Trinidad	96,500	162,700	159,700	173,300	186,200	208,500
Ceylon	80,473	83,442	74,049	73,436	84,477	81,572
Cyprus	93,098	93,695	83,457	77,792	95,255	89,566
Hong Kong	181,341	208,591	203,198	211,636	236,836	243,016
India	8,114,000	8,450,000	9,207,000	9,537,000	10,411,000	10,877,000
Malaysia (West)	326,000	320,000	r 356,000	458,000	726,000	771,000
Pakistan	1,223,000	1,373,000	1,474,000	1,522,000	1,680,000	1,856,000
Australia	r 2,811,000	r 2,889,000	r 3,071,000	3,568,000	3,742,000	3,616,000
Fiji	—	—	—	31,000	39,000	40,000
New Zealand	641,000	621,000	711,000	775,000	829,000	864,000
TOTAL	35,000,000	36,000,000	37,000,000	42,000,000	45,000,000	46,000,000
Irish Republic	732,528	873,459	869,482	1,020,067	1,202,084	1,094,960
OTHER COUNTRIES						
Albania	117,872	117,360	127,549	125,153	132,000	<i>n.a.</i>
Austria	3,035,450	3,008,830	3,259,960	3,709,200	3,967,000	4,430,000
Belgium (b)	4,371,543	4,712,580	4,635,020	5,753,730	5,811,873	5,702,000
Bulgaria	1,721,000	1,863,000	2,170,000	2,545,000	2,639,000	2,811,000
Czechoslovakia	5,259,000	5,620,000	5,096,000	5,406,000	5,623,000	6,033,000
Denmark—						
Portland cement	1,352,952	1,401,604	1,267,106	1,676,665	1,798,548	} 1,996,000
Special cements	206,288	204,546	229,851	191,322	169,584	
Finland	1,327,450	1,335,947	1,405,624	1,547,099	1,742,047	1,532,000
France—						
Portland cement	9,455,689	11,571,177	12,447,198	15,970,694	16,578,377	} 22,912,000
Portland blast furnace cements	3,126,525	2,773,763	3,827,851	3,417,770	3,577,982	
Slag cements	63,140	10,449	43,472	r 4,569	3,560	
Masonry cements	488,174	417,825	521,148	585,288	608,850	
Natural cements	173,931	390,596	270,958	251,470	209,388	
Special cements	1,831,010	1,451,948	737,134	966,934	1,033,616	
Germany (Federal)—						
Portland cement	19,192,000	20,411,000	21,179,000	24,397,000	25,033,000	25,375,000
Portland blast furnace cements	6,515,000	6,701,000	6,723,000	7,756,000	7,741,000	7,960,000
Special cements	1,007,000	1,029,000	854,000	947,000	820,000	854,000
Germany (East)	5,192,000	5,346,000	5,372,000	5,676,000	5,991,000	6,348,000
Greece	1,741,292	1,890,621	2,257,293	2,629,688	3,161,460	3,537,583
Hungary	1,576,156	1,705,941	1,769,200	2,221,037	2,345,771	2,560,000
Iceland	74,000	96,000	97,000	106,000	112,000	113,000
Italy	17,698,986	19,838,415	21,700,000	22,500,000	20,400,000	22,000,000
Luxemburg	227,520	226,367	198,467	202,000	218,000	209,000
Netherlands	1,872,612	1,983,000	2,048,000	2,827,300	2,926,300	3,113,000
Norway	1,254,266	1,389,587	1,414,998	1,516,171	1,576,703	1,797,685
Poland	7,248,000	7,425,000	7,553,000	8,623,000	9,422,000	9,881,000
Portugal	1,224,717	1,378,759	1,410,159	1,595,985	1,653,156	1,692,682
Roumania	3,255,538	3,434,129	4,300,000	4,677,000	5,321,000	5,793,000

(a) Sold or used by producers. Excluding Portland cement made from imported clinker.

(b) Excluding natural cement.

PRODUCTION OF CEMENT (cont.)

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Spain—						
Portland cement ..	5,603,290	6,187,313	6,665,709	7,509,853	} 9,794,000	11,620,000
Natural cement ..	518,953	546,907	585,565	376,718		
Other cements ..	285,762	324,655	274,855	312,065		
Sweden—						
Portland cement ..	2,878,760	2,919,957	3,100,488	3,449,785	3,591,531	} 3,633,000
Other cements ..	151,736	139,169	152,938	119,152	124,241	
Switzerland ..	3,544,292	3,667,018	3,524,768	4,254,047	3,975,658	4,257,326
U.S.S.R. ..	50,061,000	56,423,000	60,054,000	63,900,000	71,240,000	78,740,000
Yugoslavia ..	2,299,000	2,478,000	2,802,000	2,992,000	3,054,000	3,181,000
Algeria ..	1,054,800	631,600	869,900	r 772,000	728,000	648,000
Angola ..	154,051	166,721	190,962	210,440	241,582	259,858
Canary Islands ..	115,284	120,058	99,296	167,213	(g)	(g)
Cape Verde Islands ..	7,000	7,000	11,000	12,000	(e) 12,000	n.a.
Congo Republic ..	140,000	194,000	242,308	228,663	244,000	(e) 260,000
Egypt ..	2,026,000	2,197,000	2,469,000	2,481,000	2,384,000	2,520,000
Ethiopia (d) ..	32,647	43,000	32,000	r 72,000	94,000	(e) 98,000
Morocco ..	620,400	687,200	747,300	911,800	776,000	843,200
Mozambique ..	208,828	r 175,744	r 160,558	178,675	216,873	220,529
Senegal ..	179,100	180,300	186,600	201,700	178,500	191,400
Sudan ..	82,000	84,000	114,000	r 89,289	48,365	98,000
Tunisia ..	324,000	356,819	355,000	448,000	446,000	469,000
South Africa ..	2,557,420	2,616,870	2,838,820	3,401,610	3,819,890	3,926,980
Costa Rica ..	—	—	—	29,839	112,468	113,894
Cuba ..	857,000	767,000	799,000	793,000	788,000	n.a.
Dominican Republic ..	233,023	238,912	224,566	292,817	208,474	273,110
Guatemala (f) ..	104,000	98,000	128,000	152,000	189,000	167,000
Haiti ..	49,104	55,712	49,687	50,587	41,000	37,000
Honduras ..	36,300	54,060	59,000	72,000	93,000	103,000
Mexico ..	2,987,149	3,299,000	3,703,000	r 4,347,000	4,254,000	4,890,000
Nicaragua ..	38,402	45,181	52,962	60,088	65,028	86,600
Panama Republic ..	112,000	120,000	140,000	123,000	162,000	148,000
Salvador ..	73,568	64,082	77,030	r 88,621	79,444	139,176
United States (a)—						
Portland cement ..	54,404,800	56,481,900	59,176,900	61,877,700	62,345,800	64,563,200
Prepared masonry cement (b) ..	2,398,500	2,518,500	2,602,800	2,765,900	2,878,000	2,858,000
Natural, slag and hydraulic lime cements	37,800	73,900	59,900	46,200	46,800	39,800
Argentina ..	2,860,355	2,901,866	2,479,318	2,845,206	3,253,266	3,431,720
Bolivia ..	43,809	48,646	63,382	62,514	64,786	65,000
Brazil ..	4,636,341	4,913,398	4,803,940	5,123,520	5,138,434	5,465,000
Chile ..	890,518	1,128,922	1,150,137	1,246,673	1,169,148	1,342,686
Colombia ..	1,567,000	1,718,393	1,806,000	1,941,000	2,837,303	2,192,803
Ecuador ..	215,704	191,005	254,313	284,000	(f) 320,000	372,000
Paraguay ..	16,000	16,000	18,000	23,000	29,000	26,000
Peru ..	590,218	689,503	742,147	r 800,598	1,000,772	1,052,000
Uruguay ..	383,000	368,000	335,000	406,000	424,000	471,000
Venezuela ..	1,489,526	1,485,053	1,555,255	1,820,384	2,078,492	2,080,272
Afghanistan (c) ..	40,000	59,000	101,000	123,000	167,000	172,000
Burma ..	38,945	52,440	122,000	129,000	118,000	n.a.
Cambodia ..	—	—	—	n.a.	50,000	58,000
China ..	7,900,000	7,900,000	9,842,000	e 10,334,000	e 11,000,000	e 11,000,000
Formosa ..	1,480,000	1,840,000	2,210,000	2,320,000	2,410,000	3,060,000
Indonesia ..	438,000	497,000	325,000	432,000	(e) 360,000	(e) 360,000
Iran (c) ..	733,000	(f) 730,000	(f) 730,000	(f) 730,000	772,000	1,372,000
Iraq ..	906,160	878,247	909,450	1,006,660	1,265,000	1,321,000

(a) Including Puerto Rico.

(b) Excluding masonry cement produced by companies purchasing Portland cement for reprocessing.

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

(d) Years ended September 10 of that stated.

(e) United States Bureau of Mines' estimate.

(f) Estimated.

(g) Included with Spain.

PRODUCTION OF CEMENT (cont.)

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Israel	832,918	938,540	1,010,000	1,080,000	1,240,000	1,150,000
Japan	24,243,000	28,332,000	29,475,000	32,460,000	32,173,000	37,672,000
Jordan	219,602	231,561	280,772	302,929	300,272	368,264
Korea (South)	514,575	777,270	766,006	1,222,496	1,588,648	1,850,528
Korea (North)	2,226,000	2,338,000	2,490,000	2,569,000	2,362,000	2,460,000
Lebanon	860,639	609,644	882,457	867,244	950,000	1,079,000
Philippine Republic	1,002,951	945,605	936,295	1,182,148	1,505,000	1,620,000
Saudi Arabia	103,000	r 179,000	r 193,000	238,000	249,000	246,000
Syria	531,000	597,000	674,000	625,000	663,000	607,000
Thailand	797,000	950,000	980,000	1,053,635	1,228,286	1,459,312
Turkey	1,995,971	2,286,000	2,655,186	2,893,445	3,193,189	3,803,696
Vietnam (South)	—	r 50	r 20,852	74,116	186,295	130,000
Vietnam (North)	(b)450,000	(b)455,000	483,000	639,000	740,000	n.a.
TOTAL (a)	294,000,000	316,000,000	334,000,000	366,000,000	382,000,000	409,000,000
WORLD'S TOTAL (a)	329,000,000	352,000,000	371,000,000	408,000,000	427,000,000	456,000,000

(a) Estimated.

(b) United States Bureau of Mines' estimate.

CHINA CLAY
PRODUCTION OF CHINA CLAY

Long tons

Producing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom ..	1,717,669	1,696,569	1,898,000	2,033,000	2,203,000	2,482,000
Kenya	729	1,155	6,558	1,268	1,687	879
Nigeria	—	5	15	3	25	20
Rhodesia	18,202	—	10,929	18,750	<i>n.a.</i>	<i>n.a.</i>
Swaziland	52	2,449	1,975	307	741	576
Tanzania	155	156	179	109	161	305
Ceylon	—	—	—	1,502	803	1,591
Hong Kong	8,430	6,374	5,019	5,043	4,712	5,771
India	377,407	381,128	418,179	428,022	504,000	543,000
Malaysia (West) ..	1,571	3,459	1,176	1,420	1,562	1,576
Pakistan	r 1,412	r 169	r 696	r 956	1,426	2,714
Australia	51,088	36,070	44,544	r 40,808	59,683	50,110
OTHER COUNTRIES						
Austria (crude) ..	338,461	331,080	343,829	362,305	322,503	371,715
Belgium	<i>n.a.</i>	50,887	49,920	<i>n.a.</i>	<i>n.a.</i>	178,267
Bulgaria (<i>f</i>)	<i>n.a.</i>	<i>n.a.</i>	76,000	82,000	93,000	<i>n.a.</i>
Czechoslovakia ..	295,000	314,000	316,000	308,056	317,000	320,000
Denmark (<i>c</i>)—						
Crude	7,649	7,278	11,871	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Washed and pressed ..	4,169	3,254	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Washed waste	7,562	9,977	5,069	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
France	143,000	133,000	130,000	123,000	130,000	150,000
Germany (Federal) ..	367,579	377,020	381,620	403,010	393,270	400,687
Greece	24,800	34,406	r 30,185	50,021	<i>n.a.</i>	<i>n.a.</i>
Hungary	41,694	40,173	43,535	49,543	53,000	61,000
Italy—						
Crude	86,008	86,296	97,436	r 95,850	70,721	<i>n.a.</i>
Kaolinic earth	71,138	119,283	99,981	92,751	45,609	<i>n.a.</i>
Portugal—						
Crude and washed ..	48,894	42,803	37,385	37,688	39,756	33,528
Spain	(e) 124,889	(e) 165,143	(e) 204,330	(f) 138,701	<i>n.a.</i>	<i>n.a.</i>
Sweden (<i>b</i>)	26,621	25,814	31,222	43,342	41,075	26,900
Yugoslavia	<i>n.a.</i>	4,500	4,000	5,000	5,000	5,000
Angola	—	30	150	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Egypt	26,751	14,370	20,677	61,804	47,020	49,198
Eritrea	3,500	r 980	(g) 500	(g) 500	(g) 200	<i>n.a.</i>
Morocco	—	—	—	—	967	—
Mozambique	118	177	5	10	150	345
South Africa	23,637	28,005	33,404	38,835	40,740	39,879
Mexico	59,700	<i>n.a.</i>	45,826	63,211	79,854	95,065
United States (<i>a</i>) ..	2,446,264	2,676,926	2,824,619	2,974,412	3,217,815	3,915,577
Argentina	35,840	38,096	35,332	41,711	71,580	71,000
Chile	14,000	29,983	36,316	45,237	29,625	39,862
Colombia	50,000	70,000	75,000	79,416	82,000	25,893
Ecuador	536	371	346	474	416	<i>n.a.</i>
Peru	459	344	52	325	384	411
Iran (<i>d</i>)	3,000	<i>n.a.</i>	<i>n.a.</i>	6,860	9,448	<i>n.a.</i>
Japan	26,514	70,725	97,662	105,655	87,871	105,125
Korea (South)	50,369	37,590	51,437	59,580	71,103	104,070
Vietnam (South) ..	<i>n.a.</i>	r 1,624	r 1,834	2,038	<i>n.a.</i>	<i>n.a.</i>

China clay is known to have been produced in East Germany, Roumania, U.S.S.R., Brazil, China, Formosa, Israel, Indonesia and Thailand.

(a) Sold or used by producers.

(b) Sales.

(c) Production in major establishments only.

(d) Years ended March 20 of year following that stated.

(e) Crude.

(f) Washed or equivalent.

(g) United States Bureau of Mines' estimate.

EXPORTS OF CHINA CLAY

Long tons

Exporting Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom ..	1,117,440	1,100,672	1,251,387	1,360,813	1,482,160	1,712,091
Tanzania	74	90	51	10	—	—
Hong Kong	5,453	4,658	4,122	2,900	3,665	3,924
India (a)	744	474	208	698	147	80
Malaysia (West) ..	n.a.	n.a.	n.a.	n.a.	114	216
OTHER COUNTRIES						
Austria	35,091	38,465	38,538	34,401	30,180	30,990
Belgium-Luxemburg						
E.U.	133	116	323	71	400	921
Czechoslovakia ..	148,000	150,000	160,000	163,000	167,000	163,000
Denmark	1,249	1,068	204	73	47	92
France	45,559	51,523	51,137	55,056	55,223	55,062
Germany (Federal) ..	33,300	37,793	51,476	55,866	54,508	65,300
Germany (East) ..	61,277	63,113	63,158	61,722	68,878	71,522
Greece	3,407	7,967	n.a.	n.a.	n.a.	n.a.
Italy	r 92	r 109	267	r 359	528	390
Netherlands	226	44	96	209	114	740
Portugal	19,170	15,490	12,799	10,792	10,420	2,397
Spain	13,717	9,119	3,312	9,380	14,050	6,396
Sweden	159	10	11	62	120	141
U.S.S.R.	4,921	394	3,149	98	1,100	300
Morocco	7	—	—	272	8	n.a.
South Africa	n.a.	n.a.	n.a.	263	396	505
United States	88,201	106,152	99,747	135,469	172,210	226,257
Argentina	—	—	59	49	10	5
Brazil	332	98	197	710	1,383	689
Japan	2,390	5,142	2,998	2,736	2,790	1,018
Korea (South)	12,063	7,619	13,626	13,170	20,073	28,016
Turkey	—	19	15	256	20	49

(a) Years ended March 31 following that stated.

IMPORTS OF CHINA CLAY

Long tons

Importing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Canada	129,879	139,688	155,141	151,557	173,184	175,693
Hong Kong	(b) 185	251	(b) 98	(b) 197	(b) 16	131
India	10,501	6,588	6,082	5,690	4,325	2,019
Malaysia (West)	n.a.	n.a.	n.a.	n.a.	1,501	1,233
Pakistan	5,631	9,065	1,416	2,916	n.a.	n.a.
Australia	14,890	12,389	22,119	20,918	22,316	25,652
New Zealand	1,978	1,693	(d) 1,569	(d) 2,763	(d) 2,856	(d) 2,602
OTHER COUNTRIES						
Austria	7,173	8,546	9,312	12,773	18,775	21,805
Belgium-Luxemburg						
E.U.	43,810	45,537	51,494	57,491	63,541	92,017
Denmark	30,152	30,932	31,093	34,788	30,799	37,793
Finland	101,276	105,865	111,736	132,614	147,406	178,754
France	125,386	149,566	181,302	201,772	206,291	236,064
Germany (Federal)	287,664	294,688	333,271	358,831	375,447	420,637
Hungary	46,155	50,492	61,854	59,483	67,371	65,878
Italy	r 183,469	r 202,466	224,047	r 279,603	264,174	321,408
Netherlands	108,386	100,105	110,399	128,128	126,030	142,551
Norway	56,253	48,384	66,739	69,586	62,731	70,658
Poland	72,600	n.a.	79,700	76,500	70,844	76,567
Portugal	802	222	277	252	268	446
Spain	3,463	7,242	3,308	6,050	7,435	11,913
Sweden	121,770	128,948	136,444	159,821	162,699	116,738
Yugoslavia	8,386	16,944	20,486	25,461	27,127	23,001
Angola	40	37	97	63	40	84
Morocco	1,885	1,446	4,247	1,807	2,670	n.a.
Mozambique	38	134	87	125	108	94
South Africa (a)	3,911	4,394	5,058	1,174	n.a.	n.a.
Costa Rica	381	855	1,203	101	209	134
Guatemala	1,219	241	301	275	188	301
Mexico	7,744	8,299	9,943	9,193	8,952	13,201
United States	118,251	99,954	95,717	104,568	81,925	104,309
Argentina	6,113	5,330	6,353	10,452	9,213	10,494
Brazil	399	195	233	110	93	472
Chile	113	113	290	n.a.	256	n.a.
Colombia	2,205	3,078	3,368	3,180	1,964	4,579
Ecuador	35	29	56	5	9	n.a.
Peru	401	552	555	1,827	1,199	n.a.
Uruguay	n.a.	n.a.	n.a.	n.a.	1,186	1,588
Venezuela	4,135	6,306	4,078	5,976	5,345	5,566
Indonesia	2,722	n.a.	n.a.	n.a.	n.a.	n.a.
Iran (c)	229	281	191	519	346	422
Japan	36,178	35,407	48,291	52,920	59,119	78,928
Philippine Republic	2,847	1,331	2,237	2,812	4,166	n.a.
Turkey	4	1	66	7	7	17

(a) Including Cornish or China stone.

(c) Years ended March 20 following that stated.

(b) Excess of re-exports.

(d) Years ended June 30 of that stated.

**CHROME ORE AND CHROMIUM
PRODUCTION OF CHROME ORE**

Long tons

Producing Country	Estimated Cr ₂ O ₃ content						1966	1965	1964	1963	1962	1961	1966	1965	1964	1963	1962	1961	
	1961	1962	1963	1964	1965	1966													
COMMONWEALTH COUNTRIES																			
Rhodesia	527,581	453,294	368,209	440,510	625,062	500,000					218,000	253,000							
Sierra Leone .. .	—	11,269	2,738	—	4,911	10,451					5,000	8,000							
Cyprus (a) .. .	17,698	6,435	4,831	—	58,742	76,450					3,000	23,000							
India .. .	48,015	65,000	64,015	34,417	14,261	26,718					31,200	12,000							
Pakistan (c) .. .	25,103	21,135	14,306	13,290	72	—					10,000	—							
Australia .. .	—	369	160	—	23	—					185	—							
TOTAL .. .	618,397	557,502	454,259	488,289	703,000	600,000													
OTHER COUNTRIES																			
Albania .. .	228,787	247,328	288,980	301,976	310,000	310,000					n.a.	n.a.							
Greece .. .	76,624	55,359	50,371	39,466	n.a.	n.a.					25,000	35,000							
U.S.S.R. (e) .. .	906,000	1,130,000	1,210,000	1,300,000	1,400,000	1,400,000					n.a.	n.a.							
Yugoslavia .. .	106,418	95,512	92,289	86,963	78,590	53,355					n.a.	n.a.							
Egypt .. .	1,366	19,000	11,000	11,584	2,346	—					—	n.a.							
Malagasy Republic .. .	10,500	898,369	779,654	836,132	927,230	1,044,186					n.a.	400,000							
South Africa .. .	883,683	8,000	17,000	(b)17,000	(c)30,000	17,000					n.a.	—							
Sudan .. .	—	(e)35,000	55,000	32,000	(e)29,000	(e)29,000					n.a.	—							
Cuba .. .	(e)24,600	—	—	—	—	—					n.a.	—							
Guatemala .. .	100	—	—	—	—	—					n.a.	—							
United States (f) .. .	(g)73,000	—	—	—	—	—					n.a.	—							
Brazil .. .	15,212	24,447	43,344	25,384	31,543	23,856					—	28,000							
Colombia .. .	182	138	108	394	260	—					n.a.	n.a.							
Iran (d) .. .	72,600	108,000	96,000	e 120,000	e 150,000	e 170,000					n.a.	n.a.							
Japan .. .	69,063	57,165	43,040	43,261	41,173	32,314					52,000	35,000							
Philippine Republic .. .	630,189	r 522,834	451,870	r 460,696	545,764	551,264					20,300	24,400							
Turkey .. .	(i)396,369	461,739	397,511	406,167	558,106	503,564					178,000	218,000							
New Caledonia .. .	36,083	15,211	—	—	—	—					220,000	190,000							
TOTAL .. .	3,500,000	3,700,000	3,500,000	3,700,000	4,200,000	4,200,000					8,000	19,000							
World's Total .. .	4,100,000	4,300,000	4,000,000	4,200,000	4,900,000	4,800,000													

Chrome ore is also produced in Bulgaria, Roumania and North Vietnam.

(a) Figures relate to saleable production.

(b) Estimated.

(c) Produced for Federal Government only. Excludes quantity consumed by American Chrome Company.

(d) Shipments from mine.

(e) Exports.

(f) West Pakistan.

(g) United States Bureau of Mines' estimate.

(h) Including saleable production only of metallurgical chromite.

EXPORTS OF CHROME ORE, ETC.

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Chromium metal ..	315	267	442	616	595	1,527
Rhodesia (c)—						
Ore	424,993	385,430	275,217	448,477	625,062	<i>n.a.</i>
Ferro-chrome	8,920	7,839	9,838	22,332	20,939	<i>n.a.</i>
Sierra Leone—						
Ore	8,988	9,357	8,700	—	—	—
Canada—						
Ferro-chrome	1,466	5,895	2,598	154	183	31
Cyprus—						
Ore and concentrates ..	18,820	9,526	400	9,150	2	2,501
India (a)—						
Ore	41,034	17,241	11,469	30,468	25,025	68,717
Pakistan—						
Ore	12,942	9,648	3,893	22,398	<i>n.a.</i>	<i>n.a.</i>
OTHER COUNTRIES						
Albania—						
Ore	230,100	264,900	243,900	305,800	292,900	<i>n.a.</i>
Austria—						
Ore	623	632	407	635	841	486
France—						
Chromium metal	409	189	273	182	312	321
Ferro-chrome	16,218	15,070	17,605	17,717	19,419	24,934
Germany (Federal)—						
Ore	7,190	778	1,445	1,497	1,718	1,178
Chromium metal	174	47	54	52	39	79
Greece—						
Ore	27,945	19,228	15,085	22,153	29,051	20,345
Italy—						
Ore	—	—	1,476	2,038	—	14
Ferro-chrome	10,778	2,276	1,942	4,137	7,011	7,941
Netherlands—						
Ore	412	1,103	1,453	1,252	986	1,686
Norway—						
Ferro-chrome	21,252	16,797	27,043	33,672	30,384	28,797
Ferro-silico-chrome ..	3,158	2,631	4,692	8,106	4,086	355
Sweden—						
Ore	—	—	<i>n.a.</i>	—	—	—
Ferro-chrome	18,656	17,057	22,613	20,231	18,685	22,555
U.S.S.R.—						
Ore	431,000	464,500	558,000	652,500	736,000	905,000
Ferro-chrome	21,400	15,700	3,100	15,200	24,400	29,300
Yugoslavia—						
Ore and concentrates ..	5,538	29,668	23,142	23,508	13,443	12,864
Ferro-chrome	7,303	5,763	7,184	6,906	9,948	9,090
Malagasy Republic—						
Ore	4,925	18,706	12,795	6,892	7,677	1
South Africa—						
Ore	846,685	779,084	595,090	628,122	690,143	812,628
Sudan—						
Ore	—	—	303	11,000	—	<i>n.a.</i>
Cuba—						
Ore	29,298	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
United States—						
Ore	9,343	2,398	8,684	5,684	6,292	16,614
Chromium metal	13	16	10	41	198	116
Ferro-chrome	7,004	2,745	2,354	8,957	10,716	6,828
Iran (b)—						
Ore	66,601	72,593	89,804	122,512	157,325	129,743

(a) Years ended March 31 following that stated.
 (b) Years ended March 20 following that stated.

(c) Figures for years 1961 to 1963 relate to Rhodesia and Nyasaland.

EXPORTS OF CHROME ORE, ETC. (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Japan—						
Ore and concentrates ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,513	<i>n.a.</i>
Ferro-chrome	15,911	12,288	7,838	3,800	23,358	21,904
Philippine Republic—						
Ore and concentrates ..	621,466	435,306	476,158	578,000	536,678	568,856
Turkey—						
Ore	382,541	344,054	209,305	338,700	417,526	500,687
Ferro-chrome	<i>n.a.</i>	<i>n.a.</i>	1,348	5,770	5,852	7,251
New Caledonia—						
Ore	21,750	14,773	17,672	5,899	—	—

IMPORTS OF CHROME ORE, ETC.

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore	256,918	116,341	158,971	222,235	200,982	185,662
Ferro-chrome	42,358	24,510	34,458	47,254	60,894	50,065
Ferro-silicon-chrome	2,984	3,043	3,848	4,473	4,495	4,133
Zambia—						
Ore	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	395	279	513
Canada—						
Ore	63,632	64,258	44,334	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
(<i>Cr content</i>)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	18,566	31,614	18,643
Ferro-chrome	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	9,359	13,693	11,193
India—						
Ore	2,806	1,500	—	—	1	1
Ferro-chrome (<i>a</i>)	803	656	477	1,280	861	519
Australia—						
Ore	17,049	8,538	16,128	32,212	8,079	4,025
Ferro-chrome	4,133	1,974	2,713	2,993	5,864	2,420
OTHER COUNTRIES						
Austria—						
Ore	82,060	61,551	46,413	49,480	40,572	47,310
Ferro-chrome	11,660	9,523	12,073	15,037	15,240	16,053
Belgium-Luxemburg						
E.U.—						
Ore	1,107	449	1,015	1,412	972	1,683
Chromium metal	9	14	71	28	14	12
Ferro-chrome and silico-chrome	4,161	4,672	4,469	6,950	6,325	6,571
Denmark—						
Ferro-chrome	437	413	308	347	414	480
Finland—						
Ferro-chrome	1,649	1,153	995	457	1,340	1,090
France—						
Ore	194,624	158,279	151,235	190,339	220,747	233,614
Ferro-chrome	361	942	889	2,252	2,627	2,782
Germany (Federal)—						
Ore	319,040	224,520	171,740	232,954	300,734	303,459
Chromium metal	48	38	74	67	70	41
Germany (East)—						
Ore (<i>b</i>)	25,740	34,310	16,250	29,791	29,607	29,123
Hungary—						
Ore	28,899	26,323	35,373	29,213	<i>n.a.</i>	<i>n.a.</i>
Ferro-chrome	3,419	4,035	5,632	4,215	4,556	10,254
Italy—						
Ore	74,341	<i>r</i> 55,608	44,031	<i>r</i> 79,112	98,684	110,486
Chromium metal	19	<i>r</i> 19	29	21	39	32
Ferro-chrome	<i>r</i> 14,195	<i>r</i> 10,118	14,753	<i>r</i> 16,711	14,673	24,291
Netherlands—						
Ore	844	2,302	2,657	2,728	4,491	3,690
Chromium metal	10	14	16	17	29	6
Ferro-chrome	302	438	376	820	2,208	2,551
Norway—						
Ore	99,934	49,946	31,755	107,660	75,383	68,786
Poland—						
Ore	123,000	<i>n.a.</i>	84,000	115,500	152,801	141,928
Spain—						
Ore	16,280	19,348	14,889	18,001	29,108	28,694
Ferro-chrome	1,314	1,656	1,873	2,143	1,899	2,342
Sweden—						
Ore	105,184	104,136	113,336	149,654	139,237	156,276
Chromium metal	75	32	105	162	105	150
Ferro-chrome	7,288	3,060	4,075	7,516	23,407	16,889

(a) Years ended March 31 following that stated.

 (b) Cr_2O_3 content.

IMPORTS OF CHROME ORE, ETC. (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Yugoslavia—						
Ore	15,638	36,282	58,040	59,031	53,855	39,534
South Africa—						
Ore	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	47,795	77,931	96,379
Mexico—						
Ferro-chrome	674	630	853	573	453	318
United States—						
Ore	1,186,724	1,290,692	1,242,068	1,274,796	1,350,663	1,664,643
<i>(Cr₂O₃ content)</i>	<i>505,233</i>	<i>547,832</i>	<i>540,490</i>	<i>576,512</i>	<i>617,046</i>	<i>750,760</i>
Ferro-chrome	24,834	32,425	25,931	23,321	49,216	87,500
<i>(Cr content)</i>	<i>16,694</i>	<i>22,144</i>	<i>17,808</i>	<i>15,800</i>	<i>33,001</i>	<i>59,151</i>
Metal and alloys	618	578	860	654	902	2,221
Brazil—						
Ore	1,719	4,148	—	—	—	2,005
Ferro-chrome	881	895	985	472	243	1,174
Chile—						
Ferro-chrome	97	60	174	<i>n.a.</i>	316	<i>n.a.</i>
Formosa—						
Ore	<i>n.a.</i>	<i>n.a.</i>	156	<i>n.a.</i>	266	866
Japan—						
Ore	319,367	250,856	222,938	390,166	354,609	415,210
Ferro-chrome	1,006	530	2,008	5,581	492	197
Turkey—						
Ferro-chrome	16	46	56	20	—	—

COAL, COKE AND BY-PRODUCTS

PRODUCTION OF COAL (Including Brown Coal and Lignite)

Long tons

Producing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Great Britain—						
Mined—						
Anthracite	2,779,800	3,136,200	3,327,000	3,468,200	2,941,000	2,800,000
Bituminous	179,157,500	186,192,300	186,329,700	183,349,300	177,226,000	164,755,900
Opencast—						
Anthracite	767,400	766,100	832,200	1,129,900	1,262,000	1,652,300
Bituminous	7,760,600	7,341,500	5,305,700	5,679,600	6,070,300	5,373,900
Northern Ireland—						
Bituminous	12,527	12,165	9,115	6,831	4,542	3,630
Nigeria—						
Sub-bituminous	597,365	623,948	586,130	663,816	728,336	630,125
Rhodesia—						
Bituminous	3,024,371	2,781,230	2,697,222	2,720,646	2,989,692	2,308,812
Swaziland—						
Anthracite	964	—	—	4,009	29,493	65,705
Tanzania—						
Bituminous	2,302	3,024	2,051	746	3,118	1,939
Zambia—						
Bituminous	—	—	—	—	—	112,324
Canada—						
Bituminous	6,095,762	5,831,511	6,292,719	6,446,761	6,223,153	6,005,106
Sub-bituminous	1,215,804	1,336,760	1,477,047	1,879,386	2,281,029	2,310,433
Lignite	1,972,188	2,014,559	1,672,818	1,780,392	1,842,797	1,855,504
India—						
Bituminous	55,180,089	60,400,763	64,914,000	61,454,000	66,100,000	66,890,000
Lignite	62,758	207,420	983,449	1,544,392	2,263,962	2,528,000
Pakistan—						
Lignite	900,860	979,327	1,223,000	1,195,000	1,212,000	n.a.
Australia—						
Semi-anthracite	58,579	69,301	60,603	78,947	70,342	46,000
Bituminous	21,991,221	22,006,032	22,268,206	24,477,232	28,227,762	30,081,000
Sub-bituminous	1,956,258	2,394,186	2,527,531	2,845,031	3,140,439	3,244,000
Brown coal	16,279,168	17,137,438	18,456,445	19,034,792	20,658,856	21,788,000
New Zealand—						
Anthracite	169	653	233	147	65	218
Bituminous	756,363	700,427	660,869	681,683	663,222	632,269
Sub-bituminous	2,011,546	1,700,856	1,919,892	2,038,253	1,837,884	1,796,643
Lignite	156,647	148,260	161,417	156,889	157,863	165,339
TOTAL	302,740,200	315,784,000	321,707,000	320,636,000	325,934,000	317,000,000
Irish Republic—						
Anthracite including dust	133,887	129,963	146,751	150,665	130,296	118,570
Semi-bituminous and other coal	70,377	74,739	82,517	76,200	65,460	52,940
OTHER COUNTRIES						
Albania—						
Brown coal and lignite	284,488	296,240	248,178	287,020	n.a.	n.a.
Austria—						
Bituminous	104,540	97,786	101,887	101,697	57,685	20,173
Brown coal	5,571,311	5,621,385	5,957,434	5,669,741	5,364,275	5,199,547
Belgium—						
Anthracite	5,433,390	5,638,991	5,889,540	5,966,672	} 19,473,620	17,222,932
Bituminous	15,762,410	15,229,885	15,187,810	15,001,362		

(a) Sales for years ended August 31 of that stated.

PRODUCTION OF COAL (cont.)

Long tons

Producing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Bulgaria—						
Anthracite and bituminous	580,000	620,000	646,000	589,000	543,000	482,000
Brown coal and lignite..	17,760,000	19,890,000	20,918,000	23,346,000	24,082,000	24,238,000
Czechoslovakia—						
Bituminous	25,819,000	26,720,000	27,735,000	27,756,000	27,188,000	26,306,000
Brown coal	61,088,000	64,778,000	68,231,000	70,343,000	67,952,000	68,752,000
Lignite	3,184,000	3,609,000	3,914,000	4,068,000	4,108,000	4,186,000
Denmark—						
Lignite	2,455,000	2,516,000	2,472,000	2,160,000	2,094,000	2,000,000
France—						
Anthracite and bituminous	51,535,660	51,542,439	47,007,259	52,204,523	50,536,672	49,543,000
Lignite	2,860,683	2,836,391	2,432,290	2,208,653	2,647,157	2,524,000
Germany—						
Federal Republic (b)—						
Anthracite	7,135,369	7,942,384	8,822,263	9,342,760	9,110,385	8,798,791
Bituminous (a) ..	133,396,479	131,009,800	131,099,458	130,659,149	123,872,700	115,209,704
Pechkohle	1,735,060	1,732,211	1,812,180	1,839,293	1,707,818	1,141,435
Brown coal	95,660,108	99,581,347	104,975,646	109,190,748	100,297,899	96,540,870
East Germany—						
Bituminous	2,629,000	2,534,000	2,444,000	2,303,000	2,177,000	1,956,000
Brown coal	233,184,000	243,091,000	250,204,000	252,868,000	246,877,000	245,107,000
Greece—						
Lignite	2,464,000	2,651,955	3,470,089	3,797,808	5,000,059	4,760,000
Hungary—						
Bituminous	3,022,096	3,287,982	3,651,202	4,060,242	4,293,000	4,291,000
Brown coal	20,065,809	20,322,146	21,586,504	22,009,507	21,840,000	21,222,000
Lignite	4,642,055	4,588,627	4,760,046	4,980,300	4,808,000	4,355,000
Italy—						
Anthracite	23,620	16,300	13,800	r 9,336	5,504	84
Bituminous	706,264	665,328	563,005	r 454,689	377,807	411,203
Brown coal	1,501,370	1,747,896	r1,343,102	r1,184,023	1,002,303	1,049,395
Netherlands—						
Bituminous and anthracite	12,421,637	11,390,000	11,327,000	11,299,000	11,265,000	9,893,000
Poland—						
Bituminous	104,900,000	107,900,000	111,400,000	115,500,000	116,900,000	120,000,000
Brown coal	10,175,000	10,916,000	15,102,000	19,960,000	22,269,000	24,121,000
Portugal—						
Anthracite	447,141	398,714	409,000	437,000	420,809	411,585
Brown coal	155,613	150,182	140,000	99,000	88,270	49,926
Roumania—						
Anthracite and bituminous ..	340,000	370,000	390,000	(e)	(e)	(e)
Lignite	3,196,000	3,625,000	3,990,000	4,588,000	5,375,000	6,400,000
Brown coal	5,030,000	5,443,000	5,725,000	(f)6,359,000	(f)6,529,000	f 6,838,000
Spain—						
Anthracite	2,555,714	2,601,083	2,729,021	2,638,154	2,731,000	2,707,000
Bituminous	11,022,547	9,893,054	9,975,270	9,365,202	10,007,000	10,029,000
Lignite	2,056,400	2,448,857	2,550,084	2,562,745	2,729,000	2,643,000
Spitzbergen—						
Bituminous—						
Norwegian mines ..	363,224	465,380	376,359	435,092	418,903	426,912
Russian mines (d) ..	391,642	361,007	364,484	n.a.	n.a.	n.a.

(a) Including Stockheim hard coal.

(b) Excluding production from "small mines", reported as follows (long tons):

Hard coal: 1961—814,620; 1962—705,739; 1963—608,898; 1964—448,281; 1965—341,242; 1966—276,976.

Brown coal: 1961—71,828; 1962—70,788; 1963—13; 1964—96; 1965—nil; 1966—nil.

(c) Estimated.

(d) Exports.

(e) Included with brown coal.

(f) Including anthracite and bituminous.

PRODUCTION OF COAL (cont.)

Long tons

Producing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Sweden—						
Bituminous	197,272	145,848	97,837	83,147	57,925	39,500
U.S.S.R.—						
Bituminous and anthracite	371,065,000	380,329,000	r388,891,000	402,412,000	421,123,000	c437,000,000
Lignite	131,407,000	128,907,000	134,433,000	142,835,000	147,483,000	c154,000,000
Yugoslavia—						
Bituminous	1,292,000	1,169,000	1,267,000	1,290,000	1,173,000	1,114,000
Brown coal and lignite	22,401,000	23,133,000	25,672,000	27,805,000	28,333,000	27,714,000
Algeria (Sahara)—						
Bituminous and anthracite	76,319	52,000	39,000	45,000	44,000	(c) 50,000
Congo Republic—						
Bituminous	71,621	75,049	90,400	98,000	112,000	108,000
Egypt—						
Bituminous	—	—	—	—	20,000	(c) 20,000
Malagasy Republic—						
Bituminous	—	—	2,000	3,800	1,786	—
Morocco—						
Anthracite	403,700	360,000	397,800	400,000	411,900	444,000
Mozambique—						
Bituminous	315,791	292,903	278,341	241,000	233,748	267,000
South Africa—						
Anthracite	} 38,939,978	40,623,162	41,783,891	44,207,819	1,226,985	1,059,838
Bituminous					46,467,805	46,124,711
Greenland—						
Bituminous	31,000	26,000	39,000	24,000	20,000	33,000
Mexico—						
Bituminous	1,789,000	1,863,000	2,038,000	r 2,093,000	1,974,000	2,068,000
United States—						
Anthracite	15,577,178	15,083,612	16,310,164	15,343,081	13,273,174	11,554,700
Bituminous	357,106,502	374,191,126	407,342,048	r432,185,946	454,504,502	473,214,822
Lignite	2,694,213	2,727,914	2,415,251	2,633,654	2,717,161	3,464,829
Argentina—						
Lignite	231,882	281,200	246,400	326,800	368,083	350,900
Brazil—						
Bituminous and lignite	2,351,863	2,468,371	2,783,781	r 2,942,775	3,087,612	3,327,031
Chile—						
Bituminous	1,735,458	1,824,910	1,757,760	1,754,349	1,700,000	1,626,124
Columbia—						
Bituminous	2,800,000	3,000,000	3,100,000	3,000,000	3,000,000	a 2,500,000
Peru—						
Anthracite	20,592	22,114	9,448	31,236	7,608	} 67,000
Bituminous	143,877	138,162	119,639	113,525	119,286	
Venezuela—						
Bituminous	30,134	27,002	41,679	36,011	30,803	33,536
Afghanistan (b)—						
Bituminous	67,000	110,000	96,000	111,000	144,000	139,000
Burma	1,586	2,515	3,000	10,000	10,000	(c) 10,000
China (c)	245,000,000	245,000,000	270,000,000	290,000,000	300,000,000	320,000,000
Formosa—						
Bituminous	4,169,663	4,481,663	4,734,072	4,948,248	4,974,635	4,935,335
Indonesia—						
Bituminous	540,449	464,000	582,016	439,000	384,000	314,778
Iran (b)—						
Bituminous	195,000	157,000	190,000	270,000	271,000	(c) 300,000
Japan—						
Anthracite	1,863,000	1,843,000	1,770,000	1,682,000	1,604,000	1,588,000
Bituminous	51,759,000	51,695,000	49,459,000	48,443,000	47,148,000	48,948,000
Lignite	1,288,342	1,093,546	899,910	680,139	564,000	445,000

(a) Estimated.

(b) Years ended March 20 following that stated.

(c) United States Bureau of Mines' estimate.

PRODUCTION OF COAL (cont.)

Long tons

Producing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES (cont.)						
Korea (South)—						
Anthracite	5,791,400	7,326,400	8,718,200	9,469,600	10,086,400	11,429,900
Korea (North)	11,604,000	12,991,000	13,818,000	14,300,000	17,500,000	19,200,000
Mongolia	736,800	847,000	834,000	613,000	970,000	(b)1,000,000
Philippine Republic—						
Bituminous	149,922	160,404	154,063	113,121	93,048	77,000
Thailand—						
Lignite	106,684	133,089	134,910	101,996	122,996	168,429
Turkey—						
Bituminous	6,286,388	6,389,093	6,692,866	7,037,000	6,905,000	(b)7,300,000
Lignite	3,595,646	4,167,776	4,912,924	5,812,000	6,197,000	(b)6,200,000
Vietnam (North)—						
Anthracite	2,767,000	3,413,000	3,294,000	3,300,000	(a)3,500,000	(a)3,500,000
Vietnam (South)—						
Anthracite	56,000	70,000	102,455	71,621	—	—
TOTAL	2,140,000,000	2,190,000,000	2,290,000,000	2,390,000,000	2,430,000,000	2,480,000,000
WORLD'S TOTAL ..	2,440,000,000	2,510,000,000	2,610,000,000	2,710,000,000	2,760,000,000	2,800,000,000

(a) Estimated.

(b) United States Bureau of Mines' estimate.

PRODUCTION OF COKE

Long tons

Producing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Great Britain—						
Gas-works—coke (a) ..	9,820,000	9,729,000	9,719,000	8,801,000	7,769,000	7,202,000
breeze (a) ..	2,343,000	2,377,000	2,358,000	2,169,000	1,988,000	1,800,000
Coke-ovens—coke ..	17,782,000	15,536,000	15,485,000	16,857,000	17,073,000	16,117,000
breeze ..	1,263,000	1,175,000	1,222,000	1,343,000	1,392,000	1,365,000
Rhodesia ..	(e) 172,691	(e) 107,062	(e) 104,784	(e) 132,771	(f) 171,855	(f) 200,163
Canada (c) ..	3,481,737	3,590,870	3,822,140	3,877,662	3,900,706	3,951,831
Hong Kong—						
Gas-works (c) ..	9,000	16,839	14,719	13,000	13,000	10,000
India—						
Gas-works ..	125,080	122,920	106,370	68,215	63,288	64,434
Hard ..	6,127,780	6,937,252	8,240,000	7,202,827	7,850,000	8,030,645
Soft ..	1,775,836	2,064,961	2,255,024	2,171,662	2,570,000	2,834,721
Australia (d)—						
Coke—gas-works ..	764,626	761,355	694,575	693,361	632,501	559,301
coke-ovens ..	2,738,505	2,716,894	2,759,060	2,915,005	3,118,262	3,178,856
Breeze ..	376,123	456,719	379,183	417,949	471,787	492,801
New Zealand (b)—						
Gas-works ..	86,732	76,920	79,000	68,000	66,000	n.a.
Irish Republic—						
Gas-works (c) ..	120,920	120,011	126,228	128,758	124,567	102,420
OTHER COUNTRIES						
Austria—						
Gas-works ..	249,906	310,203	337,662	307,792	281,203	220,000
Coke-ovens ..	1,753,878	1,628,056	1,608,145	1,582,661	1,523,786	1,451,000
Belgium—						
Gas-works ..	2,000	2,000	2,000	2,000	2,000	n.a.
Coke-ovens ..	7,095,945	7,047,834	7,090,494	7,281,000	7,220,000	6,851,000
Bulgaria ..	19,686	7,671	126,365	463,085	721,027	n.a.
Czechoslovakia—						
Hard coke ..	8,402,000	8,789,000	9,152,000	9,272,000	9,346,000	9,316,000
Brown-coal coke ..	2,121,000	2,078,000	2,081,000	1,899,000	1,666,000	1,745,000
Denmark (gas-works) ..	399,000	411,000	405,000	344,000	259,000	287,000
Finland ..	136,684	159,612	154,813	n.a.	140,000	151,000
France—						
Gas-works (e) ..	422,700	243,000	136,000	60,000	20,000	14,000
Coke-ovens ..	13,266,892	13,305,091	13,251,173	13,784,875	13,196,915	12,746,000
Semi-coke ..	273,202	265,028	266,952	291,611	237,166	245,000
Germany (Federal)—						
Gas-works ..	4,870,000	4,882,000	4,746,000	4,834,000	4,086,000	3,520,000
Coke-ovens—hard coke ..	43,829,000	42,514,000	41,233,000	42,664,000	42,610,000	39,260,000
do. brown-coal coke ..	592,000	591,000	591,000	587,000	569,000	534,000
Germany (East)—						
Hard coke ..	3,035,000	3,073,000	3,210,000	3,344,000	3,158,000	3,141,000
Brown-coal coke ..	7,544,000	7,540,000	7,448,000	7,488,000	7,226,000	7,207,000
Greece (gas-works) ..	23,000	22,000	21,000	r 17,886	16,966	17,341
Hungary—						
Gas-works ..	429,000	458,000	432,000	420,000	460,000	n.a.
Coke-ovens—hard coke ..	681,000	742,000	757,000	764,000	765,000	n.a.
do. brown-coal coke ..	47,000	41,000	45,000	41,000	45,000	n.a.
Italy—						
Gas-works ..	769,788	763,270	713,377	533,067	379,618	334,236
Coke-ovens ..	3,835,075	4,259,293	4,522,230	4,608,932	5,646,098	6,168,226
Luxemburg—						
Gas-works ..	35,000	35,000	35,000	28,000	13,000	n.a.

(a) Excluding coke used for heating retorts.

(e) Sales.

(b) Sales for years ended March 31 of the year following that stated. (f) Years ended August 31 of that stated.

(c) Including coke-breeze.

(d) Years ended June 30 of that stated.

PRODUCTION OF COKE (cont.)

Long tons

Producing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Netherlands—						
Gas-works	232,000	197,000	174,000	107,000	96,000	59,000
Coke-ovens	4,574,000	4,206,000	4,203,000	4,443,000	4,218,100	3,767,500
Norway—						
Gas-works	44,372	44,264	57,314	127,820	21,115	<i>n.a.</i>
Coke-ovens	—	—	—	106,000	255,800	261,705
Poland—						
Gas-works	1,013,200	1,079,100	1,137,100	1,176,800	1,244,000	1,268,600
Coke-ovens	11,355,000	11,822,000	12,522,000	12,819,000	12,986,000	13,263,000
Portugal (gas-works)	39,282	30,456	24,941	9,658	13,000	<i>n.a.</i>
Roumania—						
Coke-ovens	924,681	1,100,858	1,123,000	1,128,000	1,117,000	1,086,000
Spain—						
Gas-works	248,530	228,171	196,341	176,712	98,306	76,600
Coke-ovens	2,568,001	2,695,066	2,709,014	2,528,752	2,711,000	2,563,000
Sweden (a)	851,136	907,634	885,871	893,554	882,735	<i>n.a.</i>
Switzerland—						
Gas-works	472,166	488,483	519,651	461,749	445,157	402,161
U.S.S.R. (a)	57,678,000	59,967,000	62,864,000	65,235,000	66,397,000	67,000,000
Yugoslavia—						
Gas-works	16,700	17,300	17,000	17,000	14,000	18,000
Coke-ovens	1,082,000	1,090,000	1,073,000	1,142,000	1,233,000	1,192,000
Algeria (gas-works)	61,370	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Libya—						
Gas-works (b)	5,000	5,000	5,000	5,000	5,000	5,000
South Africa—						
Gas-works	77,267	100,571	102,776	95,014	688,162	104,000
Coke-ovens	2,188,506	2,168,490	2,250,338	2,353,606	2,024,865	3,197,000
Mexico (coke-ovens)	768,817	767,807	753,067	773,716	811,123	851,757
United States—						
Coke-ovens—						
Coke	45,384,294	45,623,589	47,596,079	54,382,492	58,212,074	58,892,230
Breeze and screenings	2,979,611	3,057,786	3,222,148	3,483,971	3,604,700	3,582,464
Beehive—						
Coke	786,409	724,886	866,695	1,103,828	1,479,409	1,287,761
Breeze and screenings	47,790	38,779	26,434	19,985	38,607	32,317
Other coke	<i>n.a.</i>	147,000	143,000	181,000	133,000	150,000
Brazil—						
Gas works	280,000	(d)280,000	(d)280,000	(d)280,000	216,000	220,000
Coke-ovens	688,000	709,000	660,000	898,000	890,000	932,000
Chile	255,741	293,800	304,959	324,067	299,848	<i>n.a.</i>
Colombia	197,000	<i>n.a.</i>	393,683	452,681	<i>n.a.</i>	<i>n.a.</i>
Peru	35,421	38,876	37,841	r 25,164	26,969	34,000
Uruguay (gas-works)—						
Coke	23,105	22,194	20,825	20,521	19,254	20,648
Breeze	3,774	3,823	2,842	3,642	3,611	1,788
China (d)	15,000,000	15,000,000	15,000,000	15,000,000	16,000,000	17,000,000
Formosa	183,793	226,795	229,801	241,755	252,448	253,180
Iran (c)	20,000	13,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Gas-works	3,736,845	3,399,336	3,320,990	3,662,204	3,612,000	3,654,000
Coke-ovens	8,366,879	8,751,877	9,108,116	10,369,434	14,764,000	16,763,000
Beehive, etc.	2,373,635	2,614,015	2,767,438	3,110,941		
Korea (North) (d)	900,000	1,100,000	1,200,000	1,400,000	1,600,000	1,800,000
Korea (South)	—	35,000	—	—	—	—
Turkey—						
Gas-works	119,000	150,000	166,000	170,000	114,000	175,000
Coke-ovens	518,000	505,000	810,000	845,000	1,223,000	1,102,000
Semi-coke	81,000	83,000	78,000	78,000	71,000	71,000

(a) Including coke-breeze.

(d) United States Bureau of Mines' estimate.

(b) Estimated.

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

PRODUCTION OF BRIQUETTES

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Great Britain	1,468,000	1,548,000	1,652,000	1,330,000	907,000	936,000
Canada	60,113	50,000	65,000	53,494	62,000	n.a.
Australia—						
Brown-coal briquettes..	(a)1,806,619	(a)1,819,954	1,887,000	1,856,000	1,903,000	1,859,000
New Zealand	14,287	11,829	12,645	14,690	17,764	18,520
OTHER COUNTRIES						
Belgium	1,152,000	1,576,008	2,257,983	1,397,094	1,057,322	946,073
Czechoslovakia—						
Coal briquettes.. ..	149,000	—	—	—	—	—
Brown-coal briquettes	708,000	775,000	766,000	772,000	779,000	782,000
Denmark—						
Brown-coal briquettes ..	34,249	41,458	53,390	58,474	23,911	n.a.
France	5,995,109	6,839,514	7,887,216	6,532,907	5,720,445	4,976,000
Germany (Federal)—						
Coal briquettes.. ..	4,791,975	5,573,939	6,268,739	5,326,113	4,472,387	3,941,825
Brown-coal briquettes ..	15,270,209	15,520,870	15,584,213	15,113,594	12,481,957	11,641,945
Germany (East)—						
Brown-coal briquettes ..	57,080,000	58,784,000	59,304,000	60,533,000	59,426,000	58,487,000
Hungary—						
Coal briquettes.. ..	1,105,468	1,108,012	1,102,860	1,126,810	1,324,000	} 1,331,000
Brown coal semi-coke briquettes	14,190	62,549	103,818	153,556	84,000	
Netherlands—						
Coal briquettes	1,168,932	1,346,000	1,536,000	1,334,000	1,229,000	1,108,500
Brown-coal briquettes ..	72,888	69,700	62,000	65,000	45,000	42,000
Poland—						
Coal briquettes.. ..	664,000	644,000	629,000	613,000	603,000	562,000
Brown-coal briquettes ..	333,000	340,000	350,000	370,000	330,000	359,000
Portugal	54,915	44,304	44,050	40,517	33,652	37,518
Spain	1,100,122	1,217,769	1,173,692	1,037,216	n.a.	n.a.
Algeria	39,905	(b) 16,000	—	—	—	—
United States (c)	510,950	508,949	492,149	320,743	322,084	(b) 300,000
Korea (South)	579,134	n.a.	n.a.	n.a.	n.a.	n.a.

(a) Years ended June 30 of that stated.

(b) Estimated.

(c) In addition packaged fuel produced was as follows (long tons):

1961—17,125; 1962—15,571; 1963—12,692; 1964—8,323; 1965—7,447; 1966—(b) 8,000.

PRODUCTION OF COAL BY-PRODUCTS*

Long tons

Producing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Great Britain—						
Tar (crude) distilled	2,656,000	2,570,000	2,583,000	2,564,000	2,401,000	2,341,000
Tar (refined)	560,000	566,000	574,000	632,000	564,000	563,000
Pitch	418,000	354,000	418,000	480,000	463,000	377,000
Motor benzol	131,000	123,000	110,000	118,000	100,000	93,300
Other motor spirits, etc. ..	6,300	6,700	6,000	6,000	—	—
Other refined light oils ..	238,000	224,000	236,000	260,000	244,000	219,000
Creosote-pitch mixture ..	904,000	1,020,000	1,008,000	829,000	796,000	846,000
Creosote oil	400,000	430,000	400,000	470,000	410,000	400,000
Naphthalene (crude)	63,800	72,100	73,500	81,800	81,600	81,100
Naphthalene (refined) ..	7,300	6,300	6,200	5,200	3,900	3,600
Pyridine bases	1,300	2,000	3,200	4,000	5,600	4,200
Natural phenol	20,600	16,300	16,600	19,400	18,400	18,200
Refined cresylic acid	66,000	66,000	70,200	67,000	67,900	64,200
Anthracene 40-50%	4,200	4,000	3,900	4,200	4,000	3,500
Rhodesia—						
Tar (crude)	4,842	(c) 6,575	(d) 3,999	(d) 2,945	(d) 3,009	(d) 3,342
Motor benzol	608	(c) 297	n.a.	n.a.	n.a.	n.a.
Ammonia liquor	1,068	(c) 872	(d) 788	(d) 670	(d) 967	(d) 621
Canada—						
Tar (refined)	19,250	31,440	18,510	9,462	3,160	n.a.
Pitch	75,000	80,000	78,000	89,000	78,000	n.a.
Creosote oils	43,819	35,320	42,290	35,960	40,100	n.a.
India (coke-ovens)—						
Tar	255,972	311,624	288,555	260,939	242,411	241,099
Benzol	5,767	5,965	8,877	8,067	9,994	9,269
Benzene	7,260	8,898	19,363	16,894	20,394	18,081
Toluol	269	192	218	157	194	205
Toluene	1,043	2,009	2,139	1,998	2,159	1,976
Xylene	76	298	506	183	150	125
Solvent naphtha	514	735	122	909	1,380	1,603
Pitch	36,051	45,110	53,384	72,004	69,383	67,219
Naphthalene	1,206	3,985	3,324	2,838	5,955	2,850
Ammonium sulphate	52,525	62,492	72,902	73,867	62,139	228,985
Light oil	3,947	3,741	5,749	4,350	5,633	6,167
Middle oil	3,126	7,606	10,233	7,124	5,373	3,060
Heavy oil (230-270°C.) ..	3,303	6,885	5,338	2,442	2,018	1,182
Anthracene oil	3,753	13,574	16,574	13,608	8,663	5,509
Australia—						
Tar (crude) (a)	292,985	291,709	276,343	279,712	282,560	289,430
Tar (refined) (a)	152,168	152,191	197,512	213,882	225,790	228,290
Tar oils (crude) (a)	18,034	18,948	15,771	12,447	n.a.	n.a.
Benzol for blending	22,007	n.a.	n.a.	n.a.	n.a.	n.a.
New Zealand (b)—						
Tar (gas-works)	11,909	12,046	11,550	11,300	12,000	n.a.
Irish Republic (gas-works)—						
Tar	12,737	17,036	14,187	15,997	14,196	21,860
OTHER COUNTRIES						
Belgium—						
Tar (crude)	265,157	272,163	272,463	278,163	277,557	251,530
Benzol (crude)	n.a.	70,700	62,839	64,603	67,169	n.a.

*Some of the products are derived from the crude products shown. Duplication, therefore, is unavoidable in many cases.

See page 86 for conversion rates.

See Nitrogen Compounds (pages 227-230) for total production of ammonium sulphate.

(a) Years ended June 30 of the year stated.

(b) Sales for years ended March 31 of the year following that stated.

(c) Sales.

(d) Sales for years ended August 31 of that stated.

PRODUCTION OF COAL BY-PRODUCTS (cont.)

Long tons

Producing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES (cont.)						
Belgium (cont.)—						
Benzol (motor) ..	7,070	n.a.	n.a.	n.a.	n.a.	n.a.
do. industrial ..						
Benzene ..	n.a.	40,800	40,600	n.a.	n.a.	n.a.
Toluol and xylol ..	11,610	14,362	14,964	n.a.	n.a.	n.a.
Solvent naphtha ..						
France—						
Tar (crude) ..	645,004	637,773	645,835	651,471	614,947	593,900
Ammonium sulphate ..	127,600	130,406	126,671	134,355	128,912	n.a.
Benzol (crude) ..	152,161	160,000	160,000	168,000	162,000	n.a.
Pitch ..	199,179	194,970	203,624	229,142	229,936	225,000
Naphthalene (crude) ..	50,902	49,813	24,572	24,507	31,156	n.a.
Germany (Federal)—						
Tar (crude) ..	2,017,000	1,965,000	1,925,000	1,953,646	1,922,542	1,758,640
Pitch ..	972,262	964,507	974,942	967,136	n.a.	n.a.
Tar oils ..	698,283	740,873	720,055	744,142	n.a.	n.a.
Naphthalene ..	140,434	147,862	152,089	161,309	n.a.	n.a.
Benzol (crude) ..	581,631	563,355	542,754	570,706	561,361	505,202
Refined benzols ..	620,343	605,233	561,786	567,974	n.a.	n.a.
Phenol ..	14,709	18,935	17,886	17,641	n.a.	n.a.
Cresol and xylol ..	23,787	25,198	24,060	20,284	n.a.	n.a.
Anthracene ..	35,323	40,210	37,014	45,591	n.a.	n.a.
Pyridine and bases ..	918	991	954	1,393	n.a.	n.a.
Hungary—						
Brown coal tar ..	28,478	26,969	27,263	28,316	n.a.	n.a.
Pitch ..	34,294	40,279	39,294	40,507	39,547	35,952
Benzol ..	5,896	5,034	6,153	6,258	6,094	6,793
Creosote ..	9,434	9,410	7,188	6,704	7,152	7,301
Italy—						
Tar ..	197,655	215,422	217,063	202,033	241,584	249,582
Ammonium sulphate ..	41,203	42,325	44,317	43,349	n.a.	n.a.
Benzol (crude) ..	36,383	35,563	44,317	43,010	56,538	58,685
Naphthalene (crude) ..	8,874	9,010	10,146	10,492	11,335	11,459
Distillates ..	73,051	70,759	74,423	64,926	65,515	63,089
Benzol (refined) ..	30,365	29,147	24,450	23,366	20,303	27,531
Toluol and xylol ..	6,655	6,584	6,183	6,056	5,086	8,468
Pitch ..	82,896	80,121	92,231	80,990	83,587	80,605
Solvent naphtha ..	1,417	1,465	1,306	1,176	1,074	1,167
Norway—						
Tar (gas-works) ..	4,810	4,767	3,490	3,017	31,364	n.a.
Poland—						
Tar (coke-ovens) ..	493,200	522,900	540,600	547,900	556,600	578,900
Tar (gas-works) ..	74,300	81,100	82,400	83,000	94,100	90,300
Ammonium sulphate (coke-ovens) ..	122,900	130,500	132,000	140,000	144,000	148,100
Benzol (coke-ovens) ..	154,800	163,500	164,900	168,800	173,100	180,200
Portugal (gas-works)—						
Creosote ..	1,363	1,144	1,189	449	n.a.	n.a.
Pitch ..	1,147	826	1,043	465	n.a.	n.a.
Spain—						
Tar ..	132,676	135,188	134,160	124,423	125,687	125,000
Pitch ..	26,231	28,116	28,254	28,543	31,852	29,380
Benzol ..	37,566	52,593	50,213	47,784	51,355	53,740
Benzene ..	8,010	11,544	14,165	13,274	15,054	15,755
Toluol ..	2,007	1,850	1,604	1,798	1,912	2,000
Toluene ..	812	468	1,043	1,221	1,303	1,376
Xylene ..	422	387	887	767	650	610
Solvent naphtha ..	230	122	199	205	94	80
Anthracene ..	7,943	6,692	6,266	5,819	7,003	6,200
Naphthalene ..	6,263	5,947	9,069	6,869	7,104	6,589
Ammonium sulphate ..	353,429	n.a.	n.a.	n.a.	n.a.	n.a.
Creosote ..	10,064	n.a.	n.a.	n.a.	n.a.	n.a.

PRODUCTION OF COAL BY-PRODUCTS (cont.)

Long tons

Producing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Sweden—						
Tar (crude)	37,718	39,944	38,717	39,506	37,174	n.a.
Pitch	312	348	250	216	7	n.a.
Benzol, toluol, etc.	11,502	12,269	12,319	12,149	10,410	n.a.
Distillates, etc.						
Switzerland—						
Tar (crude) (gas-works)	27,291	27,071	28,903	26,064	25,393	23,965
Yugoslavia—						
Benzol	11,242	9,905	9,394	11,105	10,420	n.a.
Algeria—						
Tar (gas-works)	3,703	n.a.	n.a.	n.a.	n.a.	n.a.
United States—						
Coke-ovens—						
Tar (crude)	2,706,743	2,778,255	2,871,263	3,260,331	3,430,503	3,426,783
Pitch	1,049,227	991,437	921,985	970,099	1,040,858	932,449
Sulphate equivalent of ammonia produced (a)	618,807	598,777	641,766	708,846	717,641	769,649
Benzol	400,684	380,757	374,758	396,481	393,302	367,411
do. motor	2,762	4,802	7,815	2,322	10,556	9,970
Toluol and xylol	117,551	113,754	106,806	106,666	103,127	94,492
Solvent naphtha	14,474	13,731	11,413	14,371	17,373	10,130
Other light products	11,707	14,110	14,774	27,457	26,649	21,161
All sources (c)—						
Tar (crude)	2,706,743	2,778,255	2,871,263	3,260,331	3,430,503	3,426,783
Water gas and oil gas tar	70,513	82,419	n.a.	n.a.	n.a.	n.a.
Crude light oil	713,343	705,627	727,220	828,897	875,670	875,465
Benzol (b)	441,867	427,553	405,083	n.a.	n.a.	n.a.
Toluol	103,070	98,732	94,765	n.a.	n.a.	n.a.
Xylol	26,510	24,760	24,170	n.a.	n.a.	n.a.
Solvent naphtha	29,320	34,365	29,130	n.a.	n.a.	n.a.
Other light oil derivatives	25,280	29,750	38,147	n.a.	n.a.	n.a.
Naphthalene (crude)	221,949	189,377	151,212	190,040	n.a.	n.a.
Creosote oil	348,250	360,460	389,330	449,492	n.a.	n.a.
Tar, road	244,490	265,650	248,040	238,020	n.a.	n.a.
Tar for other uses (d)	122,640	96,278	77,897	85,333	n.a.	n.a.
Pitch of tar	1,826,000	1,678,000	1,596,000	1,676,000	n.a.	n.a.
Pitch of tar coke	12,000	16,000				
Uruguay (gas-works)—						
Tar	2,396	2,045	2,007	1,944	1,770	1,943
Benzol	163	165	151	196	189	142
Japan—						
Tar	1,053,784	1,075,477	1,128,400	1,239,994	1,358,000	1,475,000
Benzol (crude)	242,717	254,739	268,593	311,586	364,781	395,915
do. (other)	161,407	194,298	247,372	302,922	375,177	520,876
Toluol and xylol	134,556	41,603	n.a.	n.a.	n.a.	n.a.
Solvent naphtha	10,786	8,906	n.a.	n.a.	n.a.	n.a.
Creosote oil	230,967	249,116	264,622	279,234	303,458	303,496
Carbolic acid (crude)	4,211	15,359	n.a.	n.a.	n.a.	n.a.
Naphthalene (crude)	60,256	58,028	n.a.	n.a.	n.a.	n.a.
do. (refined)	11,314	9,021	n.a.	n.a.	n.a.	n.a.
Anthracene	13,322	12,568	n.a.	n.a.	n.a.	n.a.
Ammonium sulphate	n.a.	217,603	n.a.	n.a.	n.a.	n.a.

(a) Actual ammonium sulphate produced was as follows (long tons):

1961—529,980; 1962—522,661; 1963—553,286; 1964—607,935; 1965—619,011; 1966—681,938.

(b) Excluding motor benzol, included with "Other light oil derivatives".

(c) Including products obtained from coke-ovens except ammonium sulphate.

(d) Used for paints, etc.

PRODUCTION OF COAL BY-PRODUCTS (cont.)

Long tons

Producing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Turkey—						
Road tar	18,432	15,939	21,745	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Pitch	1,760	3,450	11,300	8,950	5,870	2,370
Benzol	4,244	4,074	5,145	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Toluol and xylol ..	473	446	657	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Solvent naphtha ..	43	53	131	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Creosote	2,312	2,705	6,905	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Anthracene	6	39	94	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ammonium sulphate ..	4,200	4,030	6,595	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Naphthalene	659	557	866	570	540	840

*The following rates have been used for conversion of Imperial gallons to long tons : Tar, 195; Benzol, 250; Creosote, 210; Motor fuel, 310; Toluol, 255; Solvent naphtha, 260; Phenol, 210; Cresylic acid, 214.

EXPORTS OF COAL, COKE AND BY-PRODUCTS*

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Anthracite—						
smalls and graded ..	715,278	1,016,834	1,583,838	1,161,166	827,295	652,456
large	73,583	111,494	180,938	133,088	87,840	24,401
other	295,639	272,002	523,492	378,066	272,382	99,623
Bituminous—						
smalls and graded ..	3,535,062	2,509,121	4,733,358	3,597,859	2,121,629	1,676,166
unscreened	171,316	203,095	305,432	179,279	122,410	42,235
large	477,988	219,702	204,335	152,894	153,983	118,587
other	328,188	379,933	344,606	268,018	209,438	155,051
Bunkers	110,108	53,510	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Coke, gas	636,587	722,664	518,885	410,686	357,296	384,183
do. other	842,582	1,004,325	1,500,718	1,056,819	636,247	584,182
Manufactured fuel ..	59,997	100,603	135,335	50,632	32,412	14,318
Tar	68,281	74,742	59,546	84,619	66,282	76,848
Pitch	168,717	210,065	291,688	195,179	186,829	173,916
Channel Islands (Jersey)						
Coke	12,405	15,210	14,332	13,560	16,301	13,274
Tar	2,885	3,709	3,821	3,171	2,602	2,896
Gibraltar—						
Coal (bunkers) (b) ..	658	547	494	410	20	5
Kenya—						
Coal (bunkers) (b) ..	176	156	216	1,775	638	45
Nigeria—						
Coal	51,041	32,199	8,031	7,894	20,377	11,224
Coke	—	—	8,125	14,300	15,036	869
Patent fuel	—	—	26,125	37,525	—	1,720
Rhodesia (e)—						
Coal	243,787	192,966	245,175	1,320,887	1,608,179	<i>n.a.</i>
Coke	111,736	52,238	42,328	103,315	144,018	<i>n.a.</i>
Canada—						
Coal	838,693	798,142	941,399	1,141,177	1,094,637	1,097,161
do. (bunkers) (c) ..	14,895	17,312	13,559	12,069	436	<i>n.a.</i>
do. do. (a)	222,549	218,679	236,357	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Lignite	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	—	—
Coke	155,621	112,521	121,711	88,853	63,867	69,600
Tar and pitch	22,568	26,876	77,004	45,659	30,237	29,948
Trinidad and Tobago—						
Coal (bunkers) (b) ..	38	18	12	—	11	14
Ceylon—						
Coal (bunkers) (b) ..	447	627	171	339	279	126
Cyprus—						
Coal (bunkers) (b) ..	1	—	—	1	—	—
Hong Kong—						
Coke	20	20	49	30	150	62
India (d)—						
Coal	919,409	1,097,121	1,486,736	1,250,108	687,706	353,305
Coke	340	31	—	10,492	5,048	8,997
Tar and pitch	6,721	1,065	1,525	1,212	184	4
Singapore—						
Coke	601	321	1,302	434	693	507
Australia (f)—						
Coal	1,888,415	3,469,552	2,676,522	3,805,747	6,051,147	7,654,070
do. (bunkers)	179	37	1,703	86	23,978	41
Coke	81,075	78,359	30,986	79,432	106,750	110,430

*For Ammonium sulphate, etc. see Nitrogen Compounds, pages 231-232.

(a) Foreign coal, "ex-warehoused for ships' stores". (See imports.)

(b) Foreign coal. (See imports.)

(c) Domestic produce. Shipments from mines to ships' bunkers.

(d) Years ended March 31 following that stated.

(e) Figures for years 1961 to 1963 exclude exports to Malawi and Zambia.

(f) Years ended June 30 of that stated.

EXPORTS OF COAL, COKE AND BY-PRODUCTS (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES (cont.)						
New Zealand—						
Coal	13,559	48	(c) 10	(c) 149	(c) 20	(c) 7
Coke	33	19	(c) 15	(c) 221	(c) 437	(c) 12
Tar	—	—	(c) 1	(c) 5	(c) —	(c) —
Irish Republic—						
Anthracite	17,000	11,968	14,635	6,469	5,974	6,293
Other coal	44,297	27,940	142	101	725	1,514
Coal (bunkers) (a) ..	448	186	363	—	—	—
OTHER COUNTRIES						
Austria—						
Coal	63	28	36	27	22	17
Brown coal	31,825	19,643	19,780	16,280	9,809	9,274
Coke	20	9,952	81	24	28	10,433
Tar	—	—	407	400	76	62
Pitch	3,854	1,054	2,387	400	301	608
Belgium-Luxemburg E.U.—						
Coal	2,730,488	2,709,649	1,920,853	2,099,556	1,816,841	1,197,851
do. (bunkers) (b) ..	8,270	8,692	2,971	590	263	—
Coke	624,729	416,655	477,277	397,437	503,379	411,957
Briquettes	140,306	285,990	692,851	434,587	129,778	102,034
Tar	12,512	6,261	10,322	28,145	50,248	50,670
Pitch	39,379	23,292	26,189	15,168	6,371	17,382
Bulgaria—						
Coal	48,210	49,727	35,303	—	—	n.a.
Czechoslovakia—						
Coal	2,408,000	2,347,000	2,296,000	2,547,000	2,340,000	2,044,000
Brown coal	1,342,000	1,522,000	1,764,000	1,388,000	1,166,000	1,125,000
Coke	1,348,000	1,545,000	1,730,000	1,858,000	1,806,000	2,359,000
Denmark—						
Coal	3	234	2,217	—	1	6
Brown coal briquettes	28,862	26,345	48,996	43,567	9,605	49
Coke	24,131	40,148	52,306	43,828	50,240	38,858
Tar and pitch	12,802	15,154	23,729	18,376	2,961	3,598
France—						
Anthracite	12,935	23,275	13,753	43,027	110,556	142,671
Bituminous	1,311,872	1,315,849	972,521	855,749	718,720	543,948
Brown coal	361	61	20	21,005	59,720	75,729
Coke	72,584	55,983	50,108	35,813	56,249	108,194
Briquettes	23,768	30,838	13,883	29,248	40,223	20,231
Brown coal briquettes	106	243	597	224	489	383
Tar and pitch	25,974	11,944	16,770	15,112	16,556	11,822
Germany (Federal)—						
Coal	16,666,158	17,572,444 53,940	16,093,365	13,502,765 17,863	13,078,608 10,860	15,545,381 2,052
do. (bunkers) (b) ..						
Brown coal	245,032	222,951	199,061	207,957	156,313	142,941
Coke	10,771,878	10,151,115	11,881,974	10,752,600	9,575,755	8,173,301
Coal briquettes ..	357,468	395,102	447,634	379,560	272,880	214,126
Brown-coal briquettes	1,433,600	1,424,860	1,490,403	1,446,338	1,164,714	1,071,393
Tar and pitch	251,138	262,007	258,316	268,177	281,608	304,629
Germany (East)—						
Coal	190	591	571	467	—	—
Coke	117,000	113,000	112,000	120,000	123,000	73,000
Brown coal briquettes..	6,107,000	6,498,000	6,871,000	6,692,000	5,868,000	5,172,000

(a) Foreign coal (see imports).

(c) Years ended June 30 of that stated.

(b) Bunkers for foreign ships only.

EXPORTS OF COAL, COKE AND BY-PRODUCTS (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES (cont.)						
Hungary—						
Coal	48,808	52,199	148,507	80,719	<i>n.a.</i>	<i>n.a.</i>
Italy—						
Coal (incl. bunkers) .. r	5,191	4,634	23,762	4,162	1,588	3,578
Coke r	163,653	170,791	146,419	99,263	118,260	151,288
Tar r	581	—	3,115	587	142	560
Pitch	20,583	29,543	43,592	29,444	20,704	21,116
Netherlands—						
Coal	2,318,849	2,293,540	2,530,659	2,123,830	2,058,757	1,820,550
do. (bunkers) (a) ..	1,496	1,212	804	418	531	—
Brown coal	22	9	20	39	—	49
Coke	2,438,035	2,187,692	2,084,173	2,289,764	2,366,273	1,873,022
Briquettes	533,082	610,660	756,901	763,330	821,530	812,383
Brown coal briquettes ..	37,557	38,855	33,698	39,685	23,180	20,373
Tar	27,931	26,451	20,669	25,859	27,654	27,044
Pitch	6,932	8,783	15,207	6,979	8,237	3,891
Norway—						
Coal	159,948	177,146	172,473	82,968	135,391	128,030
Tar	2,675	1,928	3,965	6,214	12,583	17,586
Pitch	19	17	27	19	22	76
Poland—						
Coal	16,783,700	17,032,600	16,624,900	18,963,600	20,713,000	22,053,000
Brown coal	5,779,600	5,570,600	5,645,000	5,295,900	5,117,000	4,980,000
Coke	2,104,800	2,111,000	2,314,500	2,213,500	2,287,000	2,321,000
Pitch	<i>n.a.</i>	<i>n.a.</i>	11,154	15,230	8,838	3,396
Portugal—						
Coal	2,563	102	124	167	124	104
do. (bunkers) (a) ..	473	1,523	802	30	52	3
Tar and pitch	18	15	29	15	15	14
Spain—						
Anthracite	15,244	—	5,925	9	2,365	—
Bituminous (incl. bunkers)	20,760	15,353	1,639	2,279	127	1,416
Other coal	27,140	—	14,678	53,224	8,384	11,042
Coke	7	—	—	226	236	217
Tar and pitch	—	—	—	—	—	—
Spitzbergen—						
Coal (including bunkers)	705,043	826,000	642,422	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sweden—						
Coal	36,104	19,911	22,556	6,849	2,766	852
Goke	6,575	6,235	7,147	11,983	9,271	7,610
Tar, pitch, etc. . . .	4,515	9,577	13,855	8,636	11,042	17,463
Switzerland—						
Coal	3	1,729	296	787	—	—
Coke	310	387	131	59	141	204
Briquettes	2,497	182	838	93	9	3
Tar and pitch	13	143	271	264	68	58
U.S.S.R.—						
Anthracite	2,172,100	3,213,400	4,168,100	4,021,500	3,272,000	3,029,000
Other coal	12,706,100	15,642,000	16,519,900	18,926,300	18,534,000	18,295,000
Coke	2,968,400	3,269,500	3,736,000	3,935,800	3,693,000	3,945,000
Pitch	145,200	127,800	142,200	123,500	71,600	59,400
Yugoslavia—						
Bituminous	98,812	83,044	83,224	110,060	84,136	84,051
Brown coal	6,842	14,756	39,377	19,638	21,197	4,323
Lignite	5,606	11,685	25,100	31,208	23,138	23,475
Briquettes	39	2	—	39	—	—
Pitch	21,057	11,927	12,484	1,111	413	806
Tar	1,153	431	—	—	—	—
Canary Islands—						
Coal	—	202	<i>n.a.</i>	<i>n.a.</i>	—	—
Ceuta—						
Coal (bunkers) (b) ..	390	203	<i>n.a.</i>	<i>n.a.</i>	114	39

(a) Bunkers for foreign ships only.

(b) Foreign coal (see imports).

EXPORTS OF COAL, COKE AND BY-PRODUCTS (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Malagasy Republic—						
Coal (bunkers)	—	—	—	2	<i>n.a.</i>	<i>n.a.</i>
Morocco—						
Anthracite	194,130	155,530	172,935	133,517	97,486	<i>n.a.</i>
Other coal	816	7	—	3	18	<i>n.a.</i>
Briquettes	4,786	1,849	291	1,226	815	<i>n.a.</i>
Mozambique—						
Coal (incl. bunkers) ..	59,832	51,115	64,197	34,113	86,664	84,555
South Africa—						
Coal	1,038,147	1,618,277	1,375,289	1,362,767	1,321,241	1,095,644
do. (bunkers)	1,383	1,146	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Coke	8,981	13,593	3,388	711	902	1,211
Tar and pitch	10,860	3,946	3,073	520	1,027	193
Mexico—						
Coal and coke	—	—	—	—	29	4
United States—						
Anthracite	1,380,793	1,608,682	2,993,921	1,406,337	759,471	683,951
Bituminous	31,223,058	34,297,700	42,034,317	42,829,842	44,804,786	44,019,991
do. (bunkers)	245,551	190,322	199,234	225,701	216,815	191,531
Coke	397,529	325,029	402,894	467,585	744,346	984,077
Briquettes	11,367	16,604	72,260	15,944	79,023	105,312
Tar and pitch	65,096	52,978	<i>n.a.</i>	10,837	13,270	14,465
Chile—						
Coal (including bunkers)	725	1,101	1,033	<i>n.a.</i>	836	<i>n.a.</i>
Peru—						
Coal	1,968	10,457	6,889	9,639	15,659	<i>n.a.</i>
Formosa—						
Coal (including bunkers)	236,966	126,341	89,302	94,833	1,907	15,236
Indonesia—						
Coal (including bunkers)	89	202	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Iran (a)—						
Coal	264	608	249	113	303	369
Japan—						
Coal	56,065	62,452	90,464	67,636	65,691	32,542
do. (bunkers)	9,816	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Coke	8,119	14,463	16,054	9,466	28,246	57,525
Tar and pitch	14,569	30,368	31,608	37,509	24,762	13,797
Korea (South)—						
Anthracite	237,475	296,725	258,801	247,560	201,724	159,898
Lebanon—						
Coal and briquettes ..	1,674	<i>n.a.</i>	2,142	2,195	1,261	932
Coke	542	<i>n.a.</i>	376	690	835	798
Turkey—						
Coal	—	—	5,856	16,204	9,050	9,790
Vietnam (South)—						
Coal	68	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

(a) Years ended March 20 following that stated.

IMPORTS OF COAL, COKE AND BY-PRODUCTS*

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966		
COMMONWEALTH COUNTRIES								
United Kingdom—								
Coal	39,900	21,829	32,123	351	2,571	29,651		
Coke	2,109	3,111	788	—	17	2,906		
Manufactured fuel	56	173	222	647	5,481	209		
Channel Islands—								
Anthracite	84,356	79,556	84,204	62,971	49,279	30,393		
Bituminous	105,076	110,143	100,443	87,288	81,530	78,654		
Coke	5,042	7,316	8,006	4,831	5,101	7,757		
Gibraltar—								
Coal (b)	6,820	2,781	2,900	1,410	1,327	1,688		
Malta—								
Coal (c)	2,056	2,377	2,549	4,110	443	1,995		
Coke	1,020	1,225	267	387	165	673		
Gambia—								
Coal, coke and patent fuel	3	—	—	—	—	52		
Tar	7	1	3	4	243	13		
Ghana—								
Coal	49,284	28,451	41,033	44,581	26,886	51,117		
Coke and patent fuel	4,748	374	588	314	428	1,417		
Tar	836	338	940	140	164	27		
Kenya—								
Coal (c)	35,528	23,518	40,053	32,652	52,729	46,658		
Coke	1,437	1,562	1,572	1,567	1,143	1,858		
Tar	(a) 6	—	(a) 1	5	12	n.a.		
Malawi—								
Coal	n.a.	n.a.	n.a.	61,472	66,649	n.a.		
Coke	n.a.	n.a.	n.a.	114	88	n.a.		
Mauritius—								
Coal	5,756	3,014	2,085	1,966	1,703	2,891		
Coke	255	198	182	213	240	157		
Tar	21	86	134	21	22	15		
Nigeria—								
Coal, coke and patent fuel	2,446	1,394	1,399	4,285	2,618	12,097		
Tar	1,138	1,137	1,261	666	815	587		
Rhodesia (e)—								
Coal	65,020	62,421	59,129	} 12,285	9,830	n.a.		
Coke	35	241	35			264	253	n.a.
Tar	809	523	171					
St. Helena—								
Coal	67	94	110	63	73	40		
Sierra Leone—								
Coal, coke and briquettes	10,649	15,321	4,452	80	4,070	n.a.		
Tar	(d) 208	193	113	139	93	119		
Tanzania—								
Coal	231	407	383	144	200	135		
Coke	516	456	500	419	315	160		
Tar	14	5	10	7	9	n.a.		
Uganda—								
Coal	44	80	72	114	82	59		
Coke	76	134	456	430	122	17		
Tar	16	20	4	10	2	—		
Zambia—								
Coal	n.a.	n.a.	n.a.	962,396	1,142,052	892,149		
Coke briquettes	n.a.	n.a.	n.a.	64,711	59,178	69,841		
Tar	n.a.	n.a.	n.a.	642	563	500		

*For ammonium sulphate, etc., see Nitrogen Compounds, pages 233-239.

(a) Excess of re-exports.

(b) Imported chiefly for bunkering purposes. (See exports.)

(c) Includes coal imported for bunkering purposes. (See exports.)

(d) Total imports.

(e) Figures for years 1961 to 1963 relate to Rhodesia and Nyasaland.

IMPORTS OF COAL, COKE AND BY-PRODUCTS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES (cont.)						
Canada—						
Anthracite	858,329	790,336	739,071	579,802	571,311	528,097
do. dust	86,454	26,035	17,470	3,982	262	2,432
Bituminous	9,811,048	10,214,035	10,936,295	} 12,798,206	} 14,242,996	} 14,144,344
do. (a)	222,549	218,678	236,357			
Briquettes	8,571	6,793	5,752	6,375	7,084	4,410
Coke	257,829	219,945	209,473	281,931	508,844	522,290
Tar	1,756	2,528	2,630	} 104,131	} 101,894	} 128,234
Pitch	95,059	84,191	101,384			
Bahamas—						
Coal	2	3	1	7	6	6
Barbados—						
Coal, coke and patent fuel	578	603	319	330	332	540
Bermuda—						
Bituminous (b) ..	10	10	369	n.a.	38	54
British Honduras—						
Coal and coke ..	17	28	14	18	27	21
Grenada—						
Coal	3	3	2	2	—	1
Coke	—	—	—	—	10	2
Jamaica—						
Coal (b)	210	206	154	87	61	47
Coke	526	506	657	772	1,304	517
Tar	22	20	33	42	29	32
St. Kitts—						
Coal, coke and patent fuel	10	—	5	10	9	35
St. Lucia—						
Coal	19	9	10	12	15	8
Tar	—	3	—	6	6	3
St. Vincent—						
Coal	3	3	—	n.a.	3	2
Trinidad and Tobago—						
Coal (b)	(c) 572	1,007	399	796	516	(c) 276
Coke	161	113	94	221	120	(c) 23
Falkland Islands—						
Coal	—	5	123	115	166	n.a.
Coke	129	—	200	—	2	n.a.
Guyana—						
Coal	264	136	n.a.	(c) 145	88	68
Coke	102	84	n.a.	3	16	21
Patent fuel	43	85	n.a.	103	80	60
Tar	424	172	n.a.	138	99	145
Aden—						
Coal (b)	1,635	—	1,246	n.a.	n.a.	n.a.
Ceylon—						
Coal (b)	137,141	139,005	142,847	172,534	136,395	30,509
Coke	2,246	530	598	1,925	268	553
Tar	43	58	54	2	4,269	61
Cyprus—						
Coal (b)	1	82	283	401	201	514
Coke	186	196	232	215	372	344
Tar and pitch ..	5	3	1	8	5	—
Hong Kong—						
Coal	232,779	211,343	184,958	168,979	167,361	144,328
Coke	3,922	4,007	4,002	6,191	5,500	4,930

(a) "Ex-warehoused for ships' stores." (See exports.) (c) Excess of re-exports.

(b) Including imports for bunkering purposes. (See exports.)

IMPORTS OF COAL, COKE AND BY-PRODUCTS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
<i>(cont.)</i>						
India—						
Coal	3,482	10,832	2,718	1,784	2,451	2,856
Coke	533	3,027	100	422	579	1,375
Tar and pitch (b) ..	1,410	155	59	18	23	34
Malaysia (West)—						
Anthracite	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	16,845	17,660
Coke	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	5,418	5,492
Pakistan—						
Coal	1,240,380	1,311,602	1,231,145	710,125	<i>n.a.</i>	<i>n.a.</i>
Coke	—	—	—	488	<i>n.a.</i>	<i>n.a.</i>
Tar and pitch	591	7,130	267	3,699	<i>n.a.</i>	<i>n.a.</i>
Singapore—						
Anthracite	1,427	1,329	3,554	10	2,462	1,018
Other coal	5,892	7,457	—	4,856	—	2,816
Coke	3,603	3,099	5,333	3,187	3,741	3,309
Australia (a)—						
Coal	6,629	4,792	7,929	12,816 (e)	2,700	8,476
Coke	9,768	44	29,052	37,284	51,490 (e)	10,846
Tar and pitch	2,846	3,696	8,343	7,553	12,064	9,570
Fiji—						
Coal	1,926	7,026	6,324	4,008	3,029	2,003
Coke	211	165	224	336	314	265
Tar	11	43	35	21	29	—
New Guinea (a)—						
Coal and coke	19	18	8	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
New Zealand—						
Coal	9,784	7,535	(a) 2,906	(a) 588	(a) 6	(a) 17,505
Coke	357	100	(a) 88	(a) 92	(a) 67	(a) 64
Tar	5,688	5,383	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Pitch	834	367	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sabah—						
Coal and coke	64	66	69	63	75	38
Papua (a)—						
Coal and coke	21	17	16	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sarawak—						
Coal and coke	(d) 23	(d) 19	20	21	12	21
Tar	127	92	95	557	219	1,101
Western Samoa—						
Coal and coke	5	30	3	31	12	20
Irish Republic—						
Anthracite	56,098	57,297	56,359	51,683	46,108	65,534
Bituminous (c)	1,716,304	1,405,217	1,378,503	1,285,898	1,222,375	1,247,298
Coke	6,986	15,613	12,058	12,384	11,914	15,076
Patent fuel	2,777	2,692	3,779	3,400	5,991	2,906
Tar	6,890	10,912	3,588	4,337	2,587	2,751
OTHER COUNTRIES						
Albania—						
Coke	5,860	17,676	5,399	10,228	17,206	<i>n.a.</i>
Austria—						
Coal	3,455,803	3,593,228	3,888,509	3,748,377	3,539,692	3,319,308
Brown coal	42,785	40,868	85,697	118,087	113,915	39,458
Coke	758,057	793,662	900,602	859,910	893,134	868,066
Briquettes	501,363	610,142	684,744	631,190	601,447	522,296
Tar, pitch, etc.	8,516	8,247	19,336	17,830	17,182	15,557

(a) Years ended June 30 of that stated.

(b) Years ending March 31 following that stated.

(c) Including imports for bunkering purposes. (See exports.)

(d) Coke only

(e) Owing to reclassification not strictly comparable with earlier years.

IMPORTS OF COAL, COKE AND BY-PRODUCTS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES (cont.)						
Belgium-Luxemburg						
E.U.—						
Coal	4,169,341	4,858,653	7,223,635	6,904,132	6,799,998	6,121,098
do. coke	4,083,023	3,917,714	3,830,069	4,243,848	3,998,881	3,570,153
do. briquettes .. .	158,173	163,814	191,788	236,608	328,512	340,097
Brown coal	—	26	—	—	—	25
do. do. coke	169	239	93	n.a.	1,071	521
do. do. briquettes .. .	225,871	233,338	246,536	223,453	195,423	171,462
Tar	31,995	31,829	26,227	34,372	37,641	37,478
Pitch	4,801	26,226	102,267	93,506	17,273	2,647
Bulgaria—						
Coal	n.a.	n.a.	1,161,000	1,763,000	2,218,000	n.a.
Coke	335,198	321,330	312,322	346,785	259,679	n.a.
Czechoslovakia—						
Coal	3,302,000	3,959,000	4,277,000	4,964,000	4,466,000	3,966,000
Denmark—						
Coal	3,721,971	3,867,021	3,904,546	3,718,425	3,382,984	3,620,785
Coke	1,169,024	1,339,783	1,394,703	1,127,848	843,074	810,592
Coal briquettes .. .	5,041	7,485	8,031	2,590	2,307	1,876
Brown coal briquettes .. .	180,908	215,611	189,954	156,788	148,084	135,513
Coke briquettes .. .	6,332	14,407	3,433	20,937	31,314	8,318
Tar	40	70	74	95	73	134
Pitch	247	149	234	195	329	325
Faroe Islands—						
Coal	1,745	1,218	3,584	2,275	2,280	2,534
Finland—						
Anthracite	172,970	243,527	277,987	255,752	184,201	204,504
Other coal	2,562,470	2,335,604	1,870,165	2,119,791	2,293,196	1,805,928
Briquettes	6,974	7,725	8,169	5,990	2,606	4,839
Coke	256,517	350,939	346,291	873,339	818,746	715,053
Tar	58	44	29	13	53	73
France—						
Anthracite	2,168,081	2,505,764	3,794,565	4,008,663	3,314,916	3,160,056
Bituminous	6,977,579	7,580,043	11,882,693	9,932,549	8,425,965	7,756,467
Lignite	1,310	1,528	1,724	1,826	3,998	4,643
Coke	5,481,533	4,602,265	5,442,467	4,860,499	4,391,403	3,675,090
Coal briquettes .. .	432,283	515,140	797,734	762,762	408,080	327,579
Brown-coal briquettes .. .	472,351	490,385	493,147	535,745	374,355	357,271
Tar and pitch	366,350	357,211	431,329	473,642	307,538	244,119
Germany (Federal)—						
Coal	6,678,059	7,180,036	7,639,393	6,946,361	7,052,934	6,675,104
Brown coal	1,098,146	1,103,717	1,143,996	1,011,539	915,330	1,037,210
Coke	388,257	431,969	426,052	358,683	526,238	499,090
Coal briquettes .. .	212,436	371,132	643,118	366,969	300,623	281,134
Brown-coal briquettes .. .	161,321	232,212	401,915	196,801	47,950	28,546
Tar and pitch	54,023	66,060	97,737	112,208	94,410	51,131
Germany (East)—						
Coal	7,811,000	8,741,000	8,709,000	10,247,000	9,315,000	9,023,000
Brown coal	5,858,000	5,637,000	5,696,000	5,363,000	5,136,000	4,986,000
Coke	2,790,000	2,919,000	3,179,000	3,257,000	3,154,000	3,181,000
Greece—						
Anthracite	5,025	10,886	12,032	9,117	8,740	6,479
Other coal	196,148	168,380	157,009	121,349	187,679	108,701
Coke	31,037	30,816	108,879	167,066	203,163	248,799
Tar and pitch	392	853	444	699	463	4,052
Hungary—						
Coal	1,697,589	1,685,207	2,473,615	3,227,785	2,663,000	2,346,000
Coke	930,947	950,013	1,058,855	1,137,482	2,102,000	1,181,000
Pitch	613	313	363	98	—	—
Iceland—						
Coal	17,118	15,881	10,555	12,494	7,895	4,928
Coke	1,296	2,090	1,109	860	925	742
Tar	41	6	19	35	20	18

IMPORTS OF COAL, COKE AND BY-PRODUCTS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966						
OTHER COUNTRIES												
<i>(cont.)</i>												
Italy—												
Anthracite	} r9,554,575	r10,408,696	10,500,222	r 9,894,769	{ 9,350,245	} 10,522,042						
Bituminous												
Lignite							23,062	24,002	39,037	r 31,403	47,811	24,663
Coke							r 237,455	r 321,385	663,851	r 359,405	265,710	336,377
Briquettes							r 363,228	r 209,640	386,161	r 469,183	290,594	290,923
Tar							411	—	82	r 69	1,402	2,582
Pitch	1,281	1,538	2,123	r 6,314	2,921	4,854						
Netherlands—												
Coal	7,045,810	8,782,016	9,791,606	9,152,089	6,994,381	6,573,537						
Brown coal	235,963	211,995	187,806	200,508	146,412	132,447						
Coke	306,425	354,820	515,303	305,220	276,313	205,221						
Briquettes	116,833	132,803	196,544	91,661	53,925	44,139						
Brown-coal briquettes	234,560	237,193	260,484	157,358	143,413	111,484						
Tar	54,173	30,314	56,980	81,235	74,165	70,230						
Pitch	44,336	41,048	48,515	53,168	32,231	57,586						
Norway—												
Coal (a)	284,648	247,957	220,957	272,238	358,969	366,190						
Coke	690,157	664,110	813,909	754,848	670,000	730,198						
Briquettes	347	134	191	—	11	24						
Tar and pitch	42,682	45,002	52,300	54,235	61,876	65,834						
Poland—												
Anthracite	18,500	<i>n.a.</i>	18,700	19,400	34,000	23,000						
Other coal	895,300	1,025,500	1,245,000	1,259,100	1,191,000	1,123,000						
Brown-coal briquettes	582,900	501,900	511,900	620,900	627,000	427,000						
Portugal—												
Anthracite	28,592	9,107	11,926	10,118	10,099	4,847						
Other coal	338,756	355,753	438,593	389,180	410,334	457,744						
Coke	187,288	173,477	205,693	241,806	213,143	285,203						
Briquettes	2,506	1,244	712	761	681	123						
Tar and pitch	2,130	2,978	2,036	2,468	6,396	3,727						
Roumania—												
Coal	433,700	738,100	686,900	706,500	695,100	685,200						
Coke	472,100	707,300	903,500	930,700	915,100	1,074,200						
Spain—												
Anthracite	22	211	<i>n.a.</i>	40,586	83,082	64,035						
Bituminous	210,859	1,510,191	1,656,395	1,779,888	1,605,027	1,369,614						
Coke	283,845	301,152	125,716	99,826	65,664	65,468						
Tar and pitch	26,018	93,896	71,645	53,163	52,136	36,807						
Sweden—												
Anthracite	51,697	51,716	69,614	79,443	95,511	91,535						
Other coal	1,776,101	1,833,285	1,679,055	1,882,835	1,581,449	1,739,239						
Coke	1,568,373	1,499,347	1,586,513	1,620,546	1,381,425	1,266,157						
Briquettes	11,468	14,872	16,012	5,575	2,643	7,144						
Tar, pitch, etc.	25,954	12,372	10,240	6,394	303	237						
Switzerland—												
Coal	1,640,619	1,663,745	1,969,973	1,356,028	1,097,145	874,297						
Lignite	472	260	338	319	276	396						
Coke	448,486	516,729	680,885	483,024	468,173	361,090						
Briquettes	247,809	223,010	266,082	217,696	176,602	139,608						
Tar and pitch	21,397	20,252	20,837	23,079	21,355	12,075						
U.S.S.R.—												
Coal	4,600,000	4,800,000	5,000,000	5,000,000	6,700,000	7,200,000						
Coke	637,800	597,400	643,700	650,600	652,000	644,000						
Yugoslavia—												
Anthracite	142,531	120,460	118,559	136,773	149,548	132,228						
Other coal	1,307,354	1,227,207	1,319,178	1,858,798	2,001,488	1,661,901						
Coke	193,003	240,130	225,451	188,584	109,256	169,017						
Coke dust	2,932	3,017	797	—	—	61						
Tar and pitch	3,821	1,082	673	76	62	25						

(a) Excluding coal imported from Spitzbergen.

IMPORTS OF COAL, COKE AND BY-PRODUCTS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Algeria—						
Coal	} 206,600	<i>n.a.</i>	15,100	{ <i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Coke						
Briquettes						
Tar and pitch						
Angola—						
Coal	23,234	15,362	4,120	21,202	19,912	31,643
Coke	1,507	1,425	5,328	9,583	750	620
Tar and pitch	2,905	465	262	160	243	225
Cameroun—						
Coal, coke, etc.	976	306	469	377	440	<i>n.a.</i>
Canary Islands—						
Coal	—	6,821	<i>n.a.</i>	<i>n.a.</i>	965	37
Cape Verde Islands—						
Coal (a)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Egypt—						
Coal	45,259	56,836	28,724	296,594	402,462	287,294
Coke	278,819	235,039	263,767	212,589	32,000	5,000
Tar and pitch	695	1,073	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Equatorial African Community—						
Coal, coke, briquettes ..	110	122	<i>n.a.</i>	143	219	136
Ethiopia (b)—						
Coal	9,585	<i>n.a.</i>	9,089	1,800	<i>n.a.</i>	<i>n.a.</i>
French Somaliland—						
Coal	—	—	61	—	—	—
Ivory Coast—						
Coal and briquettes ..	63	30	55	52	108	78
Coke	172	<i>n.a.</i>	25	236	151	129
Libya—						
Coal, coke, briquettes ..	37,763	6,082	8,426	2,271	6,644	97
Malagasy Republic—						
Coal and briquettes ..	4,593	5,332	14,295	13,113	14,634	14,962
Coke	92	46	42	88	71	71
Tar and pitch	59	38	72	55	163	93
Melilla—						
Coal	—	3,470	<i>n.a.</i>	<i>n.a.</i>	92	—
Morocco—						
Coal	84,185	69,353	92,487	105,007	33,383	<i>n.a.</i>
Coke	7,230	6,629	8,862	14,187	9,707	<i>n.a.</i>
Tar	1	—	} 505	{ 26	—	<i>n.a.</i>
Pitch	861	1,002			1,044	1,544	n.a.
Mozambique—						
Coal	299,597	321,041	287,191	316,592	337,338	225,314
Coke	1,497	1,047	1,202	1,402	1,317	1,385
Tar, pitch and asphalt. . .	5,268	6,061	4,303	8,014	6,435	3,999
Senegal—						
Coal and briquettes ..	78	27	182	685	622	205
Coke	294	279	131	131	261	67
South Africa—						
Coal	2	57,981	48,728	96,489	23,763	641
Coke	4	11	5	13	32,696	25,483
Sudan—						
Coal	15,748	8,261	17,630	—	6,262	—
Coke	417	1,477	591	295	895	295
Tar	31	118	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Togo—						
Coal and briquettes ..	566	32	73	104	25	53

(a) Imported chiefly for bunkering purposes. (See exports).

(b) Years ended September 10 of that stated.

IMPORTS OF COAL, COKE AND BY-PRODUCTS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES (cont.)						
Tunisia—						
Coal	42,656	27,051	28,187	33,709	30,053	29,146
Coke	9,143	8,666	8,752	6,510	20,670	54,985
Tar and pitch	3	75	21	15	78	n.a.
Costa Rica—						
Coal	27	38	36	45	35	81
Coke	153	79	149	137	78	161
Dominican Republic—						
Coal, coke, briquettes, etc.	650	n.a.	n.a.	n.a.	n.a.	n.a.
Greenland—						
Coal	14,489	14,950	16,893	9,763	8,672	5,872
Guatemala—						
Coal	56	149	63	32	60	48
Coke	150	45	215	139	202	253
Honduras—						
Coal	140	182	94	186	76	148
Coke	10	5	3	10	10	29
Mexico—						
Coal	49,375	46,048	44,055	48,890	53,586	61,614
Coke	5,954	9,022	20,910	27,168	55,362	122,836
Tar	296	548	2,615	3,536	1,907	2,426
Nicaragua—						
Coal	9	12	14	14	15	24
Coke	74	50	69	41	67	82
Panama Republic—						
Coal	19	23	33	20	n.a.	n.a.
Salvador—						
Coal	93	99	57	97	101	90
Coke	153	205	204	259	255	235
Tar	58	44	71	61	55	58
St. Pierre and Miquelon—						
Coal	9,912	7,358	10,032	8,409	6,898	7,486
United States—						
Anthracite	707	6,771	4,129	} 272,011	175,911	168,329
Bituminous	146,660	206,759	236,896			
Lignite	—	—	n.a.			
Slack and culm	—	762	n.a.			
Coke	112,962	126,681	136,246			
Briquettes	6,552	7,496	4,125	92,220	80,018	85,501
Tar and pitch	18,412	33,551	n.a.	10,351	11,244	n.a.
Argentina—						
Coal	1,196,334	609,998	756,796	680,345	646,400	686,901
Coke	44,532	22,259	1,886	68,243	80,583	50,843
Tar and pitch	658	412	68	293	73	n.a.
Bolivia—						
Coal and coke	1,786	1,105	1,265	1,229	761	n.a.
Brazil—						
Coal	844,645	877,873	852,622	1,330,639	1,031,260	1,716,875
Coke	43,160	27,061	38,606	150,166	122,837	56,926
Chile—						
Coal	364,594	871,900	101,765	n.a.	31,856	n.a.
Coke	628	628	342	n.a.	541	n.a.
Tar and pitch	21,900	20,104	26,776	n.a.	19,656	n.a.
Colombia—						
Coal	18	—	14	263	13	—
Coke	49	23	11	—	—	—
Peru—						
Coal	—	—	1,065	51	1,108	n.a.
Coke	18,365	4,373	8,400	2,678	7,987	n.a.
Tar	131	128	44	37	11	n.a.
Surinam—						
Coal	n.a.	117	n.a.	n.a.	n.a.	n.a.

IMPORTS OF COAL, COKE AND BY-PRODUCTS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Uruguay—						
Coal	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	32,434	13,980
Coke	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,903	1,922
Venezuela—						
Coal	42	3,091	14,704	694	9,930	3,810
Coke	12,958	122,964	124,895	179,064	190,500	153,858
Burma—						
Coal	353,621	325,328	205,921	205,911	118,262	<i>n.a.</i>
Coke	7,493	11,413	5,531	1,080	5	<i>n.a.</i>
Formosa—						
Coke	—	—	7,095	5,622	17,307	10,390
Tar and pitch	276	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Indonesia—						
Coal	25,075	} 17,360	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Coke	644					
Tar	53					
Iraq—						
Coal	384	681	500	290	<i>n.a.</i>	<i>n.a.</i>
Coke	383	762	876	841	579	<i>n.a.</i>
Tar and pitch	2,838	162	107	—	<i>n.a.</i>	<i>n.a.</i>
Israel—						
Anthracite	} 17,609	20,122	12,730	18,269	2,600	1,356
Other coal						
Coke		27,110	25,598	7,517	8,548	6,337	6,377
Japan—						
Anthracite	1,102,018	1,288,793	} 10,966,639	13,023,813	16,810,362	19,201,248
Other coal	9,881,599	10,452,607				
Coke	180,054	116,427				
Tar and pitch	23,300	7,528				
Jordan—						
Coal and briquettes	<i>n.a.</i>	<i>n.a.</i>	496	607	545	466
Korea (South)—						
Coal	277,236	177,175	128,152	158,549	98,015	62,315
Coke	<i>n.a.</i>	<i>n.a.</i>	3,585	4,474	16,900	26,821
Lebanon—						
Coal and briquettes	1,033	2,542	2,072	4,457	1,875	1,722
Coke	2,929	2,846	8,485	9,955	10,089	3,608
Philippine Republic—						
Coal	2	78	231	39	64	<i>n.a.</i>
Coke	7,523	12,191	14,373	11,339	20,372	<i>n.a.</i>
Tar	725	588	837	59	19	<i>n.a.</i>
Syria—						
Coal and briquettes	2,088	1,599	1,901	2,290	2,221	605
Coke	2,239	1,918	1,057	1,995	3,116	<i>n.a.</i>
Thailand—						
Coal	—	—	—	—	1,355	1,337
Coke	2,389	2,259	3,177	1,996	3,566	4,153
Tar	48	40	38	4	78	77
Turkey—						
Coal	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	295	130	328
Coke	—	566	4,078	4,019	4,134	7,807
Pitch	—	5	<i>n.a.</i>	49	98	74
Vietnam (South)—						
Coal, coke and briquettes	5,184	15,800	9,000	23,000	14,760	<i>n.a.</i>
French Polynesia—						
Coal	25	12	16	16	21	—
New Caledonia—						
Coal	66,328	46,759	79,676	182,726	246,382	215,880
Coke	199,534	101,809	91,091	100,405	52,822	137,638

COBALT
PRODUCTION OF COBALT ORE
(Metal content)

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Zambia (a)	1,721	846	959	1,394	1,510	1,490
Canada (c)	1,421	1,554	1,350	1,422	1,629	1,530
Australia (d)	17	15	17	17	18	—
OTHER COUNTRIES						
Congo Republic (b) ..	8,195	9,530	7,260	7,555	8,256	11,119
Morocco	1,270	1,413	1,349	r 1,545	1,644	1,788
Cuba (e)	—	162	r 460	690	790	790
TOTAL*	15,000	16,000	13,000	14,000	16,000	20,000

*An allowance has been made for cobalt contained in ores produced in Uganda, Finland and the United States.

Ores containing cobalt are also known to have been produced in Cyprus, Greece, Norway, Spain, Sweden, the U.S.S.R., China and Korea.

- (a) Refined metal plus estimated cobalt content of cobalt alloy and other cobalt.
- (b) Electrolytic cobalt plus recoverable cobalt in cobalt alloy.
- (c) Metal recovered from smelter products plus cobalt contained in cobalt ores and residues exported.
- (d) Estimated cobalt content of cobalt oxide.
- (e) Recoverable cobalt in sulphide. United States Bureau of Mines' estimate.

METAL PRODUCTION OF COBALT

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Zambia	679	715	671	1,341	1,510	1,490
OTHER COUNTRIES						
France	540	621	740	737	875	827
Germany (Federal) (a) ..	1,591	1,620	1,484	1,422	1,335	1,091
Norway (b)	546	592	615	698	810	786
Congo Republic	6,384	8,929	6,715	7,057	8,231	11,119

Cobalt and its compounds are also known to have been produced in the United Kingdom, Canada, Belgium, the U.S.S.R. and the United States. In addition, the following amounts of cobalt oxide hydrate, salts and driers were produced in the United States (in terms of cobalt content):

Year	Long tons	Year	Long tons
1961 ..	601	1964 ..	772
1962 ..	645	1965 ..	880
1963 ..	696	1966 ..	899

- (a) Obtained chiefly from pyrite sinter imported from Cyprus, Finland, Norway, Spain, Sweden and other countries. Including secondary metal.
- (b) Obtained from copper-nickel matte imported from Canada.

EXPORTS OF COBALT, ETC.

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Cobalt (a)	44	42	110	90	157	186
Cobalt oxide	274	332	359	462	368	460
Other compounds	684	601	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Zambia (e)—						
Cobalt	540	880	529	1,443	1,411	1,602
Cobalt alloy	5	—	—	31	<i>n.a.</i>	<i>n.a.</i>
Canada—						
Cobalt	270	242	330	265	130	280
Cobalt oxides and salts ..	679	728	490	739	631	584
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Cobalt (b) (c)	1,046	2,352	671	951	2,373	3,225
France—						
Ingots and scrap (a)	228	429	451	564	639	595
Cobalt salts	6	11	11	10	31	17
Germany (Federal)—						
Cobalt (c)	820	1,002	872	776	626	441
Cobalt oxide	16	19	30	24	456	56
Norway—						
Cobalt	626	635	629	559	872	797
Sweden—						
Cobalt	15	13	4	9	2	3
U.S.S.R.—						
Cobalt	261	200	197	197	200	100
Congo Republic (d)—						
Cobalt	6,400	8,900	6,700	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Cobalt-copper ingots	4,400	1,500	1,300	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Morocco—						
Ore	5,243	2,390	6,988	28,647	6,151	18,319
United States—						
Ore and metal (c)	926	865	958	573	555	456
Japan—						
Cobalt oxide	<i>n.a.</i>	1	3	4	21	3

(a) Including alloys.

(b) Exports of cobalt metal are not separately recorded. Figures relate to imports into the United States and Japan from Belgium.

(c) Including alloys and scrap.

(d) Estimated.

(e) Figures for years 1961 to 1963 relate to Rhodesia and Nyasaland.

IMPORTS OF COBALT, ETC.

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Cobalt	1,417	1,238	} 378	1,528	1,803	1,549
Cobalt alloys	12	3				
Cobalt oxide	932	1,048		n.a.	990	859	1,101
Canada—						
Cobalt oxide	13	18	13	n.a.	n.a.	n.a.
Hong Kong—						
Cobalt oxide	16	34	45	35	37	46
India—						
Cobalt oxide	44	40	32	34	33	18
Australia (a)—						
Cobalt ingots, etc.	46	37	68	62	50	(d) 52
Cobalt oxide	17	12	10	23	30	22
Cobalt salts	59	3	2	11	6	3
New Zealand—						
Cobalt salts	372	172	(a) 1	(a) —	(a) 1	n.a.
OTHER COUNTRIES						
Denmark—						
Cobalt	7	12	10	26	21	20
France—						
Ore	9,162	9,542	10,356	10,228	11,488	11,933
Ingots and scrap (c)	157	168	266	227	308	430
Cobalt oxide	68	79	80	88	129	134
Germany (Federal)—						
Cobalt (b)	758	570	459	667	775	722
Cobalt oxide	209	211	212	257	259	315
Italy—						
Cobalt (b)	r 441	r 231	371	313	271	384
Cobalt oxide	132	124	276	243	216	206
Netherlands—						
Cobalt	213	140	120	161	244	160
Portugal—						
Cobalt oxide	1	5	4	3	2	3
Sweden—						
Cobalt	308	150	130	233	188	256
Yugoslavia—						
Cobalt	21	36	43	50	25	29
Mexico—						
Cobalt oxide	29	26	32	45	50	67
United States—						
Ore	—	—	13	n.a.	n.a.	n.a.
Co content	—	—	12	n.a.	n.a.	n.a.
Cobalt metal	4,480	5,257	4,608	5,077	6,628	7,978
Cobalt oxide	304	436	209	676	422	571
Cobalt salts	71	54	42	42	49	n.a.
Argentina—						
Cobalt metal	n.a.	14	22	46	46	44
Cobalt salts	36	7	12	23	15	10
Brazil—						
Cobalt oxide	30	43	36	31	30	42
Japan—						
Ingots, slabs and grains	1,546	1,093	853	1,603	1,270	2,005
Cobalt oxide	282	240	247	314	278	329

(a) Years ended June 30 of that stated.

(d) Owing to reclassification not strictly comparable with earlier years.

(b) Including alloys and scrap.

(c) Including alloys.

COPPER
PRODUCTION OF COPPER ORE
(Metal content)

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom	14	6	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Kenya (<i>f</i>)	1,800	1,500	1,500	1,400	1,400	500
Rhodesia	13,610	13,524	16,508	16,376	17,678	(<i>c</i>) 16,900
Tanzania	99	—	—	—	—	—
Uganda (<i>h</i>)	13,163	15,331	15,960	17,971	16,870	15,844
Zambia	565,656	553,442	578,784	622,362	684,753	613,594
Canada (<i>g</i>)	392,043	408,380	404,070	434,732	453,461	461,336
Cyprus (<i>e</i>)	28,201	24,763	25,893	16,530	18,960	24,347
India	8,910	10,054	10,170	10,048	10,000	10,000
Australia	95,626	106,972	112,967	104,050	90,388	108,114
New Zealand	—	10	20	70	10	—
TOTAL	1,119,000	1,134,000	1,166,000	1,223,000	1,294,000	1,251,000
Irish Republic	5,834	2,350	—	—	—	1,240
OTHER COUNTRIES						
Albania (<i>c</i>)	2,300	2,500	2,500	2,500	2,500	2,500
Austria	1,926	2,003	1,902	1,588	1,551	1,872
Bulgaria	16,000	18,000	18,000	18,000	24,000	(<i>b</i>) 25,000
Finland	33,500	34,600	33,400	31,800	29,300	25,970
France (<i>d</i>)	359	221	270	263	279	427
Germany—						
Federal Republic	1,632	1,815	2,246	1,557	960	1,153
East (<i>b</i>)	20,000	20,000	20,000	20,000	20,000	20,000
Italy	2,373	2,655	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Norway	13,732	15,290	14,040	14,737	14,534	14,581
Poland	11,900	13,500	13,000	14,200	15,000	15,000
Portugal	2,992	3,341	3,238	4,296	3,801	3,676
Spain (<i>i</i>)	9,433	7,769	6,727	9,716	8,637	8,030
Sweden	17,899	18,789	16,428	15,934	15,538	15,036
U.S.S.R. (<i>b</i>)	550,000	550,000	600,000	675,000	700,000	750,000
Yugoslavia	37,310	50,900	61,112	62,186	61,562	61,239
Algeria	599	767	(<i>b</i>) 1,000	1,023	956	<i>n.a.</i>
Angola	912	1,754	63	—	—	—
Congo Republic (<i>h</i>)	290,574	292,296	266,692	272,623	284,047	310,679
Congo, Republic of	158	827	286	—	(<i>c</i>) 60	<i>n.a.</i>
Morocco	1,710	2,458	1,777	1,720	1,784	2,292
South Africa	51,743	45,638	54,279	58,552	59,500	122,692
South West Africa	25,000	23,000	32,000	34,000	39,000	38,000
Cuba (<i>b</i>)	5,000	5,500	6,000	6,000	6,000	6,000
Haiti	2,816	4,212	5,791	4,950	3,897	2,687
Mexico (<i>d</i>)	48,535	46,381	54,979	51,676	68,070	73,221
Nicaragua	6,178	7,157	7,168	9,094	10,025	9,610
United States (<i>d</i>)	1,040,317	1,096,804	1,083,184	1,113,196	1,206,905	1,276,029
Argentina	622	398	349	340	510	(<i>c</i>) 500
Bolivia (<i>a</i>)	2,048	2,325	2,946	4,607	4,656	5,612

(*a*) Exports of ore (metal content) and metal.

(*b*) Estimated.

(*c*) United States Bureau of Mines' estimate.

(*d*) Amount estimated as recoverable.

(*e*) Estimated copper content of concentrates, cement copper and cupreous pyrites exported. The copper content of copper concentrates and cement copper produced was as follows (long tons): 1961—21,600; 1962—20,400; 1963—22,000; 1964—11,300; 1965—18,000; 1966—16,000.

(*f*) Copper content of cement copper.

(*g*) Blister copper plus recoverable copper in ores and matte exported.

(*h*) Smelter.

(*i*) Excluding copper contained in iron pyrites, estimated at about 10,000 tons per annum in recent years. This may or may not be recovered.

PRODUCTION OF COPPER ORE (cont.)

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES (cont.)						
Brazil (c)	2,100	r 1,600	r 1,500	r 2,000	2,000	2,000
Chile (d)	544,616	582,300	592,028	623,541	570,000	650,000
Ecuador	99	155	279	181	127	220
Peru (d)	194,924	164,156	174,650	r 173,658	177,488	173,606
Burma (c)	110	150	170	120	140	150
China (a) (b)	60,000	75,000	75,000	75,000	75,000	85,000
Formosa	2,197	2,074	1,593	1,711	1,522	1,962
Israel	6,154	5,816	7,598	(c) 8,000	(c) 8,000	(c) 8,500
Japan	94,886	101,983	105,524	104,497	105,376	109,522
Korea (South)	250	550	600	600	1,100	1,000
Korea (North) (c)	5,900	7,900	7,900	10,000	12,000	12,000
Philippine Republic	51,056	53,864	62,680	59,503	61,749	72,592
Turkey (a)	19,678	25,368	24,398	25,571	25,885	26,197
TOTAL	3,200,000	3,300,000	3,400,000	3,500,000	3,600,000	3,900,000
WORLD'S TOTAL	4,300,000	4,400,000	4,500,000	4,700,000	4,900,000	5,200,000

Ores containing copper are also known to have been produced in Fiji, Czechoslovakia, Hungary, Malaysia (West) and Iran.

(a) Smelter.

(b) Estimated.

(c) United States Bureau of Mines' estimate.

(d) Amount estimated as recoverable.

METAL PRODUCTION OF COPPER

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Rhodesia	11,531	12,142	14,453	14,998	17,000	(g) 17,000
Uganda	13,163	15,331	15,960	17,971	16,870	15,844
Zambia	559,949	537,769	r 567,888	r 633,368	674,282	577,077
Canada (a)	354,345	331,181	322,754	355,314	376,777	379,000
India	8,204	9,626	9,431	9,325	9,212	9,362
Australia	62,497	87,337	88,492	80,589	73,414	90,253
TOTAL	1,009,689	993,386	r 1,018,978	r 1,111,565	1,168,000	1,089,000
OTHER COUNTRIES						
Albania	1,269	1,830	2,010	2,169	(g) 2,000	(g) 2,000
Austria (b)	11,646	12,666	12,844	14,411	15,950	16,756
Bulgaria	18,602	r 19,132	20,198	r 20,769	24,849	(g) 26,000
Finland	33,800	r 37,700	r 35,600	r 31,500	31,700	33,100
Germany—						
Federal Republic	63,200	67,700	65,800	67,200	73,000	69,100
East (e)	20,000	20,000	20,000	20,000	20,000	20,000
Italy	276	450	363	266	n.a.	n.a.
Norway	21,623	18,851	17,910	17,233	19,768	34,039
Poland	21,800	23,700	29,100	36,000	36,800	39,200
Spain	17,883	19,928	23,142	21,067	30,533	28,650
Sweden	20,377	22,410	28,616	28,246	29,359	28,400
U.S.S.R. (e)	550,000	550,000	600,000	675,000	700,000	750,000
Yugoslavia	30,381	45,019	49,977	50,899	56,020	73,717
Angola	800	700	100	—	—	—
Congo Republic	290,574	292,296	266,692	272,623	284,047	310,679
South Africa	51,395	45,451	53,647	53,652	53,591	113,214
South-West Africa	—	1,195	20,485	28,061	29,237	32,511
Mexico	46,873	r 44,791	r 53,479	r 50,054	66,451	54,366
United States (d)	1,077,995	1,180,905	1,157,768	1,195,029	1,280,402	1,411,703
Bolivia (c)	117	—	—	—	—	—
Chile	516,301	548,686	548,379	577,292	531,279	623,384
Peru	177,659	145,498	152,757	r 150,323	156,641	150,000
China (e)	60,000	75,000	75,000	75,000	75,000	85,000
Formosa	2,215	2,451	1,458	r 1,857	2,154	2,373
Japan (f)	199,625	208,778	248,076	277,734	295,461	313,902
Korea (South)	1,300	2,175	2,341	2,766	2,243	2,854
Korea (North) (g)	7,900	10,000	10,000	10,000	12,000	12,000
Turkey	19,678	25,368	24,398	25,571	25,885	26,197
TOTAL	3,200,000	3,400,000	3,500,000	3,700,000	3,900,000	4,300,000
WORLD'S TOTAL	4,200,000	4,400,000	4,500,000	4,800,000	5,100,000	5,400,000

(a) Copper content of blister and anode copper.

(b) Including secondary metal.

(c) Exports.

(d) In addition, secondary metal was recovered as follows (long tons):

1961—757,981; 1962—823,061; 1963—870,023; 1964—975,912; 1965—1,118,973; 1966—1,191,294.

(e) Estimated.

(f) In addition, secondary metal was recovered as follows (long tons):

1961—73,005; 1962—57,381; 1963—42,463; 1964—58,569; 1965—64,442; 1966—84,547.

(g) United States Bureau of Mines' estimate.

EXPORTS OF COPPER, ETC.*

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Unwrought—Refined ..	71,510	108,906	45,836	37,814	43,026	49,533
Alloys ..	37,576	46,518	39,652	35,385	33,954	42,960
Scrap (a) ..	1,435	8,010	6,276	3,227	12,536	10,379
Semi-manufactures ..	38,035	35,426	29,971	35,260	51,939	53,922
do. alloys ..	34,716	27,213	25,994	24,972	24,758	27,105
Sulphate ..	19,463	18,382	17,805	18,122	15,627	13,284
Kenya—						
Unwrought (a) ..	3,667	4,006	3,041	3,358	3,665	1,564
Rhodesia (e)—						
Ore and concentrates ..	11,802	5,593	13,854	7,022	6,868	n.a.
Unwrought. Refined ..	n.a.	n.a.	n.a.	15,160	16,467	n.a.
Bar and rod ..	n.a.	n.a.	n.a.	3,699	1,487	n.a.
Tanzania—						
Lead concentrates (Cu content) ..	94	—	—	—	—	—
Uganda—						
Unwrought (a) ..	12,930	15,539	15,320	18,214	17,283	15,550
Zambia (e)—						
Matte ..	12,996	2,578	806	1,437	n.a.	n.a.
Unwrought—						
Blister ..	146,802	118,941	132,612	151,175	150,389	84,305
Electrolytic ..	390,030	404,547	432,929	519,778	522,310	505,404
Other ..	8,195	12,808	12,561	n.a.	3	3
Semi-manufactures	90	985	946	n.a.	n.a.	n.a.
Canada—						
Ore, matte, etc. (Cu content) ..	38,298	85,307	82,973	93,348	77,679	84,721
Unwrought ..	237,720	199,146	191,952	200,244	178,420	170,260
Scrap, slag, etc. (d)	6,959	7,264	9,450	11,739	17,534	26,597
Scrap alloys ..	8,448	6,803	7,798	7,873	8,810	12,005
Semi-manufactures	25,108	25,099	30,590	39,954	41,317	44,133
do. alloys (c)	3,576	3,458	4,044	5,700	5,064	8,090
Cyprus—						
Ore and concentrates ..	101,585	92,889	108,456	61,139	69,649	57,755
Cupreous pyrites ..	138,477	105,622	103,848	86,128	173,513	161,653
Copper cement ..	1,759	1,667	3,096	3,873	4,915	14,545
Hong Kong—						
Scrap (a) ..	7,153	5,850	6,325	5,719	6,043	6,041
Semi-manufactures (a)	28	17	—	34	3	4
India—						
Semi-manufactures(a)(b)	248	274	641	845	1,053	474
Malaysia (West)—						
Ore ..	n.a.	n.a.	n.a.	n.a.	1,750	750
Singapore—						
Semi-manufactures (a)	329	835	928	408	434	484
Sulphate ..	26	54	51	40	59	89
Australia—						
Ores, concentrates and dross (Cu content) ..	28,012	21,828	11,881	18,982	13,928	15,242
Unwrought—						
Blister ..	1,022	—	464	40	2,115	6,538
Refined ..	23,073	16,497	24,485	13,817	11,703	7,684
Alloys ..	77	208	83	149	133	291
Scrap (a) ..	12,900	6,833	7,504	8,172	4,573	4,430
Semi-manufactures (a)	4,706	5,787	7,986	7,955	14,152	18,693

*In these tables the description "unwrought" copper corresponds to item 682.1 of the Standard International Trade Classification and includes both blister and refined copper. "Semi-manufactures" corresponds to S.I.T.C. 682.2 and includes foil and powder as well as rods, wire, sheets, strip, tubes, pipes, etc.

(a) Including alloys.

(b) Years ended March 31 following that stated.

(c) Including refinery shapes.

(d) Scrap only.

(e) Figures for years 1961 to 1963 relate to Rhodesia and Nyasaland.

EXPORTS OF COPPER, ETC. (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES (cont.)						
Fiji—						
Ore	—	—	20	—	22	1
New Zealand—						
Unwrought (a)	170	8	(c) —	(c) —	(c) 726	(c) 533
Scrap (a)	1,439	609	(c) 616	(c) 1,451	(c) 1,045	(c) 1,471
Semi-manufactures (a)	189	654	(c) 1,529	(c) 1,826	(c) 914	(c) 907
Irish Republic—						
Ore and concentrates ..	28,024	14,950	—	124	—	—
Scrap (a)	2,120	2,045	2,918	2,804	3,465	4,284
OTHER COUNTRIES						
Albania—						
Unwrought	1,283	1,544	1,904	2,300	3,625	n.a.
Austria—						
Unwrought	1,312	1,828	1,369	2,708	4,402	4,401
do. alloys	106	598	1,155	938	381	228
Scrap (a)	97	709	595	306	177	393
Semi-manufactures (a)	4,825	4,354	6,789	8,017	5,153	5,223
Sulphate	1,262	1,338	373	517	758	258
Belgium-Luxemburg						
E. U.—						
Unwrought (a) (b) ..	195,223	206,804	244,379	245,872	259,003	258,830
Scrap	5,819	8,745	9,739	12,499	16,004	17,651
Semi-manufactures (a)	60,810	56,322	59,419	81,077	88,745	80,003
Sulphate	15,941	12,585	11,624	5,517	8,310	7,509
Denmark—						
Unwrought	5	27	—	477	99	3
do. alloys	142	227	416	215	368	748
Scrap (a)	2,969	5,342	5,116	3,304	4,458	3,492
Semi-manufactures (a)	699	712	784	1,561	1,740	1,844
Finland—						
Unwrought (a)	5,501	7,196	8,776	6,740	4,973	13,294
Semi-manufactures (a)	2,991	3,158	5,640	1,927	8,780	10,208
France—						
Ore	675	—	—	—	—	—
Matte	2,658	421	880	795	1,637	681
Unwrought—						
Unrefined	5,956	9,472	9,791	11,663	13,165	15,650
Refined	1,554	2,436	2,619	3,330	10,439	8,988
Alloys	6,719	5,773	4,674	4,655	5,143	6,205
Scrap	3,203	5,040	5,583	8,011	7,677	8,027
do. alloys	15,188	17,294	27,475	34,963	33,012	30,880
Semi-manufactures (a)	22,309	17,424	18,399	20,467	33,748	30,826
Sulphate	8,237	7,320	4,155	3,234	3,506	5,157
Germany (Federal)—						
Ore	418	472	—	—	3,941	2,209
Unwrought—						
Unrefined	45	89	251	367	858	2,145
Refined	78,997	114,215	71,903	75,501	101,251	147,633
Alloys	1,046	1,843	1,012	1,147	1,678	2,499
Scrap (a)	11,230	14,504	20,338	18,312	31,422	43,364
Semi-manufactures (a)	57,414	63,532	71,641	76,820	69,749	91,830
Sulphate	5,491	4,319	5,058	3,871	3,611	3,402
Italy—						
Ore	2,246	3,327	2,158	r 2,442	999	2,366
Unwrought (a)	r 200	r 206	21	10,693	16,864	5,774
Scrap (a)	121	r 188	245	r 2,864	465	325

(a) Including alloys.

(b) Including matte.

(c) Year ended June 30 of that stated.

EXPORTS OF COPPER, ETC. (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Italy (cont.)—						
Semi-manufactures (a)	r 13,185	r 9,982	9,695	r 27,038	35,614	23,564
Sulphate	r 4,320	7,250	4,681	1,491	17	2
Netherlands—						
Ore	6,804	263	—	—	—	—
Unwrought	264	122	601	1,402	826	1,114
do. alloys	6,009	5,434	4,852	6,050	4,819	7,830
Scrap (a)	14,374	17,338	19,684	24,087	31,912	34,243
Semi-manufactures (a)	6,555	7,992	9,314	13,484	15,917	15,803
Sulphate	50	36	26	61	147	36
Norway—						
Ore	10,438	11,205	9,889	14,091	10,559	15,106
Matte	19,568	15,510	1,107	—	—	—
Unwrought—						
Unrefined	3,987	4,161	4,488	4,821	4,831	5,022
Refined	14,769	13,512	10,667	9,361	11,914	13,642
Alloys	1,846	1,197	1,740	1,714	2,939	3,057
Scrap (a)	1,507	1,572	2,022	2,269	1,998	1,892
Semi-manufactures (a)	2,436	2,198	2,625	1,968	2,940	4,947
Portugal—						
Ore	2,241	2,102	2,153	180	18	—
Unwrought	556	471	256	1,091	742	1,351
Semi-manufactures (a)	69	62	68	71	341	343
Sulphate	59	201	183	211	755	311
Spain—						
Unwrought (a)	209	70	388	6,384	13,975	19,895
Scrap	177	—	—	86	191	210
Semi-manufactures (a)	63	26	185	13	12	26
Sweden—						
Unwrought	15,953	15,884	15,128	10,387	17,930	28,754
do. alloys	1,745	1,890	2,568	1,454	1,849	5,106
Scrap (a)	719	545	656	977	1,406	959
Semi-manufactures (a)	30,226	28,691	31,523	45,507	36,030	35,637
Sulphate	2	8	3	69	409	463
Switzerland—						
Unwrought (a)	1,706	2,052	2,050	2,808	3,784	4,089
Scrap (a)	527	1,802	6,901	9,897	12,047	11,026
Semi-manufactures (a)	8,543	7,705	8,482	10,198	8,110	10,836
U.S.S.R.—						
Unwrought (d)	59,400	70,200	70,900	88,100	91,600	118,200
Semi-manufactures	3,445	5,413	5,413	4,921	5,400	5,200
Sulphate	9,700	9,300	10,300	11,800	10,400	19,200
Yugoslavia—						
Matte	n.a.	n.a.	1,229	1,033	n.a.	—
Unwrought (a)	100	843	—	—	—	176
Semi-manufactures (a)	13,163	13,895	17,523	21,845	22,134	31,356
Sulphate	984	2,953	2,180	9,241	1,571	5,197
Algeria—						
Ore	1,544	3,516	3,291	4,018	3,615	1,527
Angola—						
Ore	—	90	—	—	—	—
Unwrought	871	764	190	9	50	300
Congo Republic—						
Unwrought (b)	300,000	280,000	260,000	300,000	280,000	290,000
Morocco—						
Ore	4,357	5,372	6,516	4,507	5,689	7,301
Scrap (a)	1,266	864	743	928	760	n.a.
South Africa—						
Concentrates (Cu content) (c)	238	42	583	3,287	4,259	n.a.
Unwrought	51,586	43,447	68,495	81,128	82,208	} 119,822
do. alloys	n.a.	n.a.	n.a.	88	3	
Semi-manufactures	n.a.	n.a.	n.a.	1,012	1,528		3,359

(a) Including alloys.

(b) Estimated.

(c) Including matte.

(d) Including wire.

EXPORTS OF COPPER, ETC. (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
South West Africa—						
Ore (Cu content) ..	4,537	1,440	—	312	668	8,889
Lead concentrates (Cu content) ..	23,587	21,938	11,492	5,834	7,895	4,372
Tunisia—						
Unwrought and scrap ..	717	850	520	459	1,259	950
Mexico—						
Ore, concentrates, etc. ..	3,497	6,912	2,085	7,178	6,635	5,651
Unwrought—						
Unrefined	20,746	24,049	22,061	15,686	7,821	7,163
Refined	3,329	4,930	2,735	620	824	246
Semi-manufactures (a)	543	1,213	1,985	1,606	4,136	5,213
United States—						
Ores, matte, blister, etc. (Cu content) ..	3,998	1,710	1,080	4,817	9,532	1,261
Unwrought	385,940	300,468	278,107	282,349	290,147	243,814
do. alloys	419	306	529	1,774	1,356	1,287
Scrap	31,479	11,257	12,223	39,062	28,357	16,043
do. alloys	104,155	32,330	30,997	61,313	58,326	38,991
Semi-manufactures ..	9,519	9,692	9,337	5,626	9,921	17,820
do. alloys	4,641	6,265	5,771	5,917	10,918	
Sulphate	6,764	1,711	759	971	1,906	3,181
Argentina—						
Ores	1,590	1,681	2,121	1,292	184	263
Matte	209	206	17	349	—	—
Bolivia—						
Ore, etc. (Cu content) ..	1,931	2,325	2,946	4,607	4,656	5,612
Unwrought	117	—	—	—	—	—
Chile—						
Ores and concentrates	32,468	33,231	33,976	23,419	27,640	30,525
Precipitate	3,688	7,347	8,365	11,431		
Copper cement	4,180	3,070	9,329	8,679	12,047	n.a.
Unwrought—						
Blister	299,069	289,775	278,132	304,787	255,770	n.a.
Refined	73,699	73,006	78,157	70,886	67,199	n.a.
Electrolytic ..	143,417	166,381	166,138	139,124	148,355	218,024
Cu content (b) ..	535,290	559,488	577,316	555,251	513,910	n.a.
Semi-manufactures ..	3,314	3,776	2,107	n.a.	64,169	n.a.
Peru—						
Ore (Cu content) ..	15,313	14,579	15,648	22,022	23,488	169,595
Matte, etc. (do.) ..	1,289	2,889	2,156	551	—	
Precipitate (do.) ..	808	1,476	1,057	914	726	
Unwrought (do.) ..	178,215	152,495	144,205	152,979	152,793	
Burma—						
Matte	504	398	235	450	398	n.a.
Formosa—						
Ore	8,661	12,598	9,252	14,256	12,638	15,164
Unwrought	4,360	—	—	3	252	—
Japan—						
Unwrought	1,336	2,050	1,458	1,541	2,627	1,538
Semi-manufactures (a)	12,249	15,897	18,018	26,232	49,643	39,116
Sulphate	160	211	23	33	9	987
Korea (South)—						
Unwrought	721	39	—	2,057	2,879	716
Philippine Republic—						
Ore and concentrates ..	243,420	180,647	278,714	243,524	253,662	n.a.
Copper-gold-silver concentrates ..	22,797	35,173	1,462	6,245	n.a.	n.a.
Scrap	2,858	1,706	878	1,189	n.a.	n.a.
Turkey—						
Ore	—	35	—	8,297	7,972	n.a.
Unwrought	8,051	14,200	9,885	12,779	20,035	19,604

(a) Including alloys.

(b) Total metal content of above items (not additional) and of complex ores not shown.

IMPORTS OF COPPER, ETC.*

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore and matte	—	—	115	1,394	798	456
Unwrought—						
Electrolytic	345,580	380,543	345,098	376,638	436,230	429,249
Other refined	34,790	30,109	36,616	42,639	62,577	31,798
Blister	140,445	103,984	99,163	98,901	75,010	37,316
Alloys	159	78	608	308	121	134
Scrap	371	514	496	768	2,887	1,413
do. alloys	1,591	1,811	1,643	2,619	2,768	3,495
Semi-manufactures (a)	4,340	3,917	4,435	10,090	7,164	6,285
Malta—						
Semi-manufactures ..	£22,299	£18,575	£25,387	£40,665	£46,934	£113,543
Ghana—						
Semi-manufactures (a)	653	715	760	471	993	447
Kenya—						
Unwrought (a)	—	32	62	31	74	61
Semi-manufactures (a)	205	164	202	147	275	317
Sulphate	49	25	38	63	53	76
Mauritius—						
Semi-manufactures (a)	106	46	88	107	81	45
Nigeria—						
Unwrought and semi-manufactures (a) ..	858	1,776	2,215	1,864	1,562	2,680
Rhodesia (c)—						
Semi-manufactures (a)	829	1,011	690	6,282	4,174	n.a.
Sierra Leone—						
Semi-manufactures (a)	97	142	49	70	56	680
Tanzania—						
Unwrought (a)	3	—	2	1	4	1
Semi-manufactures (a)	82	78	140	64	57	103
Sulphate	—	1	4	1	1	3
Uganda—						
Semi-manufactures (a)	84	67	65	80	122	155
Zambia—						
Unwrought (a)	n.a.	n.a.	n.a.	39	131	11
Semi-manufactures (a)	n.a.	n.a.	n.a.	349	710	466
Sulphate	n.a.	n.a.	n.a.	35	12	30
Canada—						
Unwrought	3	124	5,846	(d) 6,045	(d) 5,131	(d) 9,368
Scrap (a)	3,654	489	2,995	n.a.	n.a.	n.a.
Semi-manufactures ..	3,771	1,234	1,511	(d) 1,551	(d) 4,075	(d) 2,092
do. alloys	1,897	2,745	3,459	(d) 3,294	(d) 8,670	(d) 3,509
Sulphate	345	390	327	194	435	225
Barbados—						
Semi-manufactures (a)	112	75	77	207	75	53
Jamaica—						
Semi-manufactures (a)	246	135	116	160	151	223
Sulphate	762	2	(b) 50	2	1	—
Trinidad and Tobago—						
Semi-manufactures (a)	511	184	157	189	281	199
Sulphate	28	16	37	15	21	20
Guyana—						
Semi-manufactures (a)	41	19	n.a.	36	69	22
Ceylon—						
Unwrought (a)	16	26	32	29	43	52
Semi-manufactures (a)	583	395	471	753	596	564
Cyprus—						
Semi-manufactures (a)	121	87	68	57	25	107

*See footnote on p.105 concerning the descriptions "unwrought" copper and "semi-manufactures" used in these tables.

(a) Including alloys.

(b) Excess of re-exports.

(c) Figures for years 1961 to 1963 relate to Rhodesia and Nyasaland.

(d) Owing to reclassification not strictly comparable with earlier years.

IMPORTS OF COPPER, ETC. (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
<i>(cont.)</i>						
Hong Kong—						
Unwrought (a)	258	95	204	508	3	121
Scrap (a)	1,564	1,546	734	354	12	611
Semi-manufactures (a)	7,911	7,337	8,355	11,881	8,831	7,626
India (e)—						
Unwrought	36,203	68,489	68,312	51,824	42,471	19,205
do. alloys	64	152	10	58	196	98
Scrap (a)	4,338	1,478	1,457	1,954	1,042	590
Semi-manufactures (a)	6,069	5,407	4,958	5,580	14,748	14,237
Sulphate	1	—	—	—	—	—
Malaysia (West)—						
Unwrought (a)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	33	18
Semi-manufactures (a)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	2,219	2,390
Sulphate	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	114	160
Pakistan—						
Unwrought	2,112	2,472	2,473	322	<i>n.a.</i>	<i>n.a.</i>
Scrap	262	146	124	124	<i>n.a.</i>	<i>n.a.</i>
Semi-manufactures	3,309	<i>n.a.</i>	5,144	702	<i>n.a.</i>	<i>n.a.</i>
Sulphate	87	183	285	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sabah—						
Semi-manufactures (a)	96	66	105	95	84	61
Sarawak—						
Semi-manufactures (a)	205	94	86	153	160	167
Singapore—						
Semi-manufactures (a)	596	1,436	1,437	1,066	1,767	1,954
Sulphate	154	114	141	132	127	77
Australia (c)—						
Unwrought	6,746	5,386	1,238	5,038	32,654	943
do. alloys	26	(b) 4	289	1,090	—	192
Scrap (a)	351	118	205	535	526	374
Semi-manufactures (a)	3,039	5,560	2,638	1,818	4,136	2,110
Sulphate	623	1,131	2,077	1,223	2,586	1,276
Fiji—						
Semi-manufactures (a)	89	110	64	61	68	59
New Zealand—						
Unwrought (a)	95	148	(c) 133	(c) 184	(c) 120	(c) 258
Semi-manufactures (a)	11,237	11,126	(c) 12,130	(c) 12,934	(c) 13,447	(c) 15,370
Sulphate	42	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Irish Republic—						
Unwrought (a)	230	196	126	98	129	156
Semi-manufactures (a)	4,316	4,339	5,348	5,002	7,172	7,046
Sulphate	2,569	1,578	1,913	1,481	850	894
OTHER COUNTRIES						
Austria—						
Ore	542	498	298	271	681	726
Unwrought—						
Unrefined	5,240	4,817	5,011	5,945	5,299	4,996
Refined	20,258	17,073	15,844	18,053	17,188	13,907
Alloys	104	129	334	425	625	678
Scrap	1,532	691	3,248	1,736	979	870
do. alloys	1,118	1,907	1,227	2,784	4,250	4,492
Semi-manufactures (a)	4,011	3,813	3,469	4,113	3,607	4,087
Belgium-Luxemburg						
E.U.—						
Ore	5,750	5,875	3,960	2,141	2,192	11,954
Unwrought (a) (d)	272,778	301,776	275,956	316,844	312,370	338,520
Scrap	19,540	31,559	35,926	48,172	66,606	55,954
Semi-manufactures (a)	5,886	6,636	6,936	8,300	8,881	8,173
Sulphate	78	121	126	344	206	236

(a) Including alloys.
(d) Including matte.

(b) Excess of re-exports.

(c) Years ended June 30 of that stated.

(e) Years ended March 31 following that stated.

IMPORTS OF COPPER, ETC. (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Bulgaria—						
Sulphate	6,274	6,271	6,655	7,991	6,595	n.a.
Denmark—						
Unwrought	3,546	4,566	3,786	4,372	3,526	3,924
do. alloys	183	228	113	103	181	54
Scrap (a)	279	105	17	80	283	287
Semi-manufactures (a)	22,011	24,832	21,356	23,711	29,530	20,847
Sulphate	3,026	2,286	2,599	3,767	2,969	2,847
Finland—						
Unwrought (a) ..	6,257	6,229	2,696	5,643	12,059	11,546
Semi-manufactures (a)	3,498	2,022	2,079	1,995	3,766	4,403
Sulphate	403	708	710	794	1,328	1,697
France—						
Unwrought—						
Unrefined	10,413	4,839	6,109	9,648	4,643	6,776
Refined	219,233	223,100	208,907	244,863	257,864	297,171
Alloys	907	2,096	1,925	963	1,849	1,385
Scrap	2,876	2,678	1,789	2,075	2,898	2,323
do. alloys	3,649	6,215	6,750	4,988	8,786	16,099
Semi-manufactures (a)	4,729	6,086	10,564	14,854	15,504	20,715
Sulphate	4,466	3,247	1,906	1,320	60	281
Germany (Federal)—						
Ore	127,968	131,513	156,041	146,971	142,583	134,604
Burnt cupreous pyrites	1,209,333	1,095,231	979,785	1,112,599	1,253,434	1,245,012
Matte	7,979	7,335	2,320	2,259	1,430	1,609
Unwrought—						
Unrefined	120,142	99,424	120,171	133,717	139,832	144,029
Refined	341,324	296,063	251,181	304,991	294,510	261,062
Alloys	30,555	36,090	38,831	42,089	43,099	35,851
Scrap (a)	33,594	26,605	36,278	78,178	107,380	77,069
Semi-manufactures (a)	27,204	19,788	26,078	42,227	71,525	55,918
Sulphate	592	542	541	929	1,597	2,047
Greece—						
Unwrought—						
Unrefined	2,082	4,891	1,080	1,584	—	592
Refined	1,872	2,344	5,542	4,376	6,268	4,794
Scrap	777	868	406	31	4	6
Sulphate	5,865	6,127	3,994	4,608	232	3,764
Hungary—						
Unwrought	18,616	18,534	17,279	22,363	n.a.	n.a.
Sulphate	6,216	7,224	3,809	4,368	4,427	9,047
Iceland—						
Semi-manufactures (a)	253	283	210	187	225	192
Italy—						
Unwrought—						
Unrefined	12,066	r 12,468	9,837	r 5,422	2,027	2,743
Refined (a)	r 183,157	r 224,046	210,798	r 189,206	199,378	212,183
Scrap (a)	r 23,281	r 23,120	21,524	13,682	35,034	38,941
Semi-manufactures (a)	r 5,360	r 7,358	12,207	r 8,930	8,238	10,600
Sulphate	2,073	1,390	1,246	5,855	5,160	2,728
Netherlands—						
Ore	8,287	—	—	—	—	—
Unwrought	29,547	21,349	25,798	34,034	31,746	28,601
do. alloys	1,278	1,725	1,508	1,979	2,788	2,102
Scrap (a)	4,858	4,846	8,231	8,566	10,275	8,574
Semi-manufactures (a)	45,772	40,170	40,207	57,690	67,505	60,034
Sulphate	2,073	2,172	2,413	2,628	2,984	2,636
Norway—						
Copper-nickel matte ..	63,328	59,896	55,559	50,009	59,760	60,405
Unwrought	4,247	5,110	4,587	4,970	4,576	4,643
do. alloys	250	429	415	228	284	365
Scrap (a)	318	95	—	66	157	5
Semi-manufactures (a)	17,727	18,538	18,288	19,975	21,367	23,298
Sulphate	343	398	269	566	1,561	1,397

(a) Including alloys.

IMPORTS OF COPPER, ETC. (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Poland—						
Concentrates	10,683	9,060	12,137	18,798	16,177	20,552
Unwrought	32,331	35,923	34,592	27,485	28,550	35,887
Sulphate	1,921	5,305	1,754	1,566	1,371	2,917
Portugal—						
Ore and concentrates ..	4,132	9,060	10	—	—	—
Matte	59	118	22	—	—	—
Unwrought (a)	9,929	6,476	5,294	5,294	6,607	6,321
Scrap	78	230	235	353	134	117
Semi-manufactures (a)	4,327	3,446	4,578	5,137	5,473	6,727
Sulphate	8,842	5,305	4,210	4,542	2,472	74
Spain—						
Ore	49,614	22,547	17,602	19,569	22,503	22,462
Unwrought (a)	12,436	26,538	28,475	41,372	33,637	53,082
Scrap (a)	10,219	15,470	10,217	10,040	17,230	19,372
Semi-manufactures (a)	465	3,831	9,679	9,919	17,725	16,970
Sulphate	90	30	51	70	42	128
Sweden—						
Ore	18,401	21,293	77,555	65,908	75,694	73,755
Matte	8,163	9,255	7,231	10,653	8,298	9,114
Unwrought—						
Unrefined	5,267	1,876	1,973	1,465	307	—
Refined	65,964	69,143	63,131	56,278	62,344	54,791
Alloys	4,459	3,005	2,312	3,614	5,827	2,738
Scrap (a)	1,479	1,498	3,297	4,617	10,230	9,518
Semi-manufactures (a)	9,953	9,346	12,357	17,764	34,736	32,081
Sulphate	441	211	214	96	95	42
Switzerland—						
Unwrought	51,943	39,635	37,291	37,220	40,585	41,330
do. alloys	1,364	2,117	1,010	637	1,043	1,165
Scrap (a)	493	425	222	296	421	538
Semi-manufactures (a)	21,060	21,123	16,394	20,444	24,126	23,193
U.S.S.R.—						
Unwrought	80,900	104,700	86,600	9,400	700	7,300
Sulphate	n.a.	5,905	8,661	8,858	—	—
Yugoslavia—						
Unwrought	10,284	6,999	5,911	9,347	6,179	3,536
Semi-manufactures (a)	620	549	591	2,551	2,151	4,838
Scrap	3,929	4,141	4,434	3,091	10,962	9,354
Angola—						
Semi-manufactures (a)	265	393	298	396	514	770
Sulphate	7	3	26	163	25	25
Egypt—						
Unwrought and scrap ..	5,056	6,481	10,131	5,222	3,348	4,133
Semi-manufactures (a)	982	619	n.a.	379	n.a.	n.a.
Sulphate	95	—	n.a.	n.a.	n.a.	n.a.
Malagasy Republic—						
Semi-manufactures (a)	148	170	114	179	140	96
Morocco—						
Semi-manufactures (a)	1,863	2,122	3,006	2,571	2,074	n.a.
Sulphate	35	—	10	1	—	n.a.
Mozambique—						
Semi-manufactures (a)	481	431	681	408	508	701
South Africa—						
Ore and concentrates ..	n.a.	n.a.	n.a.	4,947	6,021	6,143
Unwrought	22,948	24,571	25,614	30,809	32,479	38,495
do. alloys	70	39	66			
Semi-manufactures (a)	1,210	2,121	1,344	4,308	3,746	3,973
Sudan—						
Unwrought	1	—	125	3	222	—
Semi-manufactures ..	223	589	271	242	—	59
Sulphate	447	255	1	2	396	3

(a) Including alloys.

IMPORTS OF COPPER, ETC. (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Tunisia—						
Semi-manufactures (a)	507	337	399	640	523	538
Sulphate	620	91	346	131	147	<i>n.a.</i>
Costa Rica—						
Semi-manufactures (a)	131	212	241	163	312	280
Sulphate	9,811	157	11	26	30	26
Guatemala—						
Semi-manufactures (a)	81	106	85	183	200	104
Sulphate	408	19	12	16	31	8
Honduras—						
Sulphate	296	45	34	33	55	45
Mexico—						
Unwrought (a) ..	15	28	21	19	55	12
Semi-manufactures (a)	276	214	735	451	1,177	633
Sulphate	2	5	—	1	—	—
Nicaragua—						
Semi-manufactures ..	77	80	71	154	126	129
Panama Republic—						
Sulphate	2,504	11	—	—	<i>n.a.</i>	<i>n.a.</i>
Salvador—						
Semi-manufactures ..	<i>n.a.</i>	<i>n.a.</i>	8	586	975	1,712
United States (b)—						
<i>Cu content of—</i>						
Ore and concentrates	21,875	2,074	10,266	38,616	10,130	10,358
Matte, precipitate, etc.	85	19	2,500	96	378	<i>n.a.</i>
Unwrought—						
Blister	5,294	999	106,456	360,605	290,549	398,418
Refined	77,863	116,540	109,954	100,620	104,793	145,637
Scrap	1,467	3,434	1,960	4,638	12,222	21,346
do. alloys	348	1,151	844	883	2,738	6,571
Semi-manufactures ..	19,160	17,251	<i>n.a.</i>	<i>n.a.</i>	57,398	109,141
do. alloys	21,061	23,389	<i>n.a.</i>	<i>n.a.</i>		
Sulphate	285	74	<i>n.a.</i>	<i>n.a.</i>	485	<i>n.a.</i>
Argentina—						
Unwrought	29,316	17,177	15,647	20,861	22,873	13,941
Brazil—						
Ore	—	—	—	—	—	—
Unwrought (a) ..	35,598	41,447	47,448	27,371	22,417	42,229
Semi-manufactures (a)	307	374	231	337	315	494
Sulphate	3,142	4,653	4,081	3,335	2,713	3,115
Colombia—						
Unwrought	63	162	365	633	953	547
Semi-manufactures (a)	4,378	4,148	4,403	5,833	3,428	5,060
Sulphate	104	3	50	7	1	45
Peru—						
Semi-manufactures (a)	894	1,136	773	609	3,837	<i>n.a.</i>
Sulphate	312	188	225	554	165	<i>n.a.</i>
Uruguay—						
Unwrought	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,029	600
Venezuela—						
Semi-manufactures (a)	5,892	5,094	5,857	6,376	6,634	7,767
Sulphate	106	303	223	55	2,068	46

(a) Including alloys.

(b) The figures shown are imports for consumption. According to the U.S. Bureau of Mines, general imports, which also include material entering the country under bond, were as follows (long tons Cu content):

	1961	1962	1963	1964	1965	1966
Ore and concentrates	40,882	38,319	43,427	45,924	32,522	37,117
Matte	1,434	566	666	537	458	331
Unwrought—						
Blister	302,847	296,148	329,519	347,838	296,929	312,426
Refined	59,692	88,232	106,397	123,213	122,683	145,180
Scrap	3,778	4,279	2,610	3,994	13,699	25,934

IMPORTS OF COPPER, ETC. (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Burma—						
Semi-manufactures (a)	306	—	374	134	264	<i>n.a.</i>
Formosa—						
Unwrought (a)	1,243	2,405	2,250	1,996	1,450	975
Semi-manufactures (a)	1,829	1,102	917	2,766	4,031	3,829
Indonesia—						
Semi-manufactures (a)	2,996	2,087	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sulphate	1,332	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Iran (b)—						
Unwrought (a)	357	402	1,201	499	1,010	421
Scrap	873	1,106	1,233	784	108	44
Semi-manufactures (a)	2,805	3,709	2,451	3,179	3,403	3,660
Iraq—						
Semi-manufactures (a)	881	1,745	1,086	1,156	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Ore and concentrates ..	427,423	514,230	556,140	586,470	575,070	680,196
Matte	5,392	35,435	34,542	24,113	33,781	25,706
Unwrought	102,634	36,158	55,321	117,853	110,573	133,090
do. alloys	65	206	165	2,631	2,648	14,211
Scrap	10,336	7,812	17,079	28,829	12,531	9,699
do. alloys	134,198	74,953	64,463	77,373	51,392	65,827
Semi-manufactures (a)	983	1,428	1,255	5,884	11,345	7,682
Sulphate	304	1,142	—	—	—	520
Jordan—						
Semi-manufactures (a)	114	158	188	216	94	127
Korea (South)—						
Unwrought and Semi-manufactures ..	<i>n.a.</i>	<i>n.a.</i>	97,099	233	112	351
Lebanon—						
Semi-manufactures (a)	750	524	501	668	529	480
Philippine Republic—						
Semi-manufactures (a)	3,976	4,622	3,427	4,580	4,898	<i>n.a.</i>
Sulphate	<i>n.a.</i>	<i>n.a.</i>	109	—	—	<i>n.a.</i>
Thailand—						
Unwrought (a)	7	215	155	336	354	388
Semi-manufactures (a)	1,198	1,802	2,173	2,914	3,502	3,568
Turkey—						
Semi-manufactures (a)	423	104	418	363	196	507
Sulphate	857	1,540	34	3,152	4,687	90

(a) Including alloys.

(b) Years ended March 20 of year following that stated.

DIAMONDS
PRODUCTION OF DIAMONDS†

Metric carats

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Ghana (b)	3,214,000	3,210,060	2,681,700	2,668,000	2,273,000	2,815,500
Lesotho	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	(a) 2,472	5,492	(a) 12,506
Sierra Leone	2,295,279	1,637,402	a) 1,738,547	a) 1,649,847	1,461,145	1,436,722
Tanzania	691,668	660,029	590,949	650,461	756,969	946,656
Guyana	112,679	100,145	99,748	109,682	112,873	98,887
India	1,313	1,131	1,432	2,260	4,466	2,083
Australia	—	—	—	—	—	—
TOTAL	6,315,000	5,609,000	5,112,000	5,083,000	4,614,000	5,312,000
OTHER COUNTRIES						
Angola—						
Gem	750,769	762,395	788,406	874,096	886,788	967,972
Industrial	396,669	318,709	295,165	274,972	268,937	300,169
Congo Republic—						
Gem	132,000	256,000	296,000	295,000	14,106	11,483
Industrial	18,011,000	14,400,000	14,468,000	14,457,000	12,489,768	12,417,000
Central African Republic	111,484	265,417	402,186	442,281	536,810	539,935
Ivory Coast	549,330	283,911	179,660	200,270	198,179	183,435
Guinea	(c) 1,200,000	(c) 350,000	54,000	(c) 50,000	<i>n.a.</i>	<i>n.a.</i>
South Africa	3,787,862	3,917,891	4,375,572	4,449,978	5,025,598	6,036,677
South West Africa	905,815	1,027,233	1,194,630	1,541,544	1,656,234	1,758,956
Venezuela	134,176	176,493	69,674	115,604	88,800	84,695
TOTAL*	26,000,000	22,000,000	22,000,000	23,000,000	21,000,000	23,000,000
WORLD'S TOTAL* ..	32,000,000	28,000,000	28,000,000	28,000,000	26,000,000	28,000,000

†For values see next page.

*Including an estimate for diamonds produced in Brazil but excluding diamonds produced in the U.S.S.R., Liberia and Indonesia. Production in the U.S.S.R. is reported to have been as follows (metric carats): 1961—1,000,000; 1962—2,500,000; 1963—2,750,000; 1964—*n.a.*; 1965—*n.a.*; 1966—*n.a.*

Note—Estimated production of synthetic diamond in the United States was as follows (metric carats): 1961—2,500,000; 1962—3,000,000; 1963—5,000,000; 1964—5,200,000; 1965—5,400,000; 1966—6,000,000.

(a) Exports.

(b) Production was shared by Companies and African diggers as follows:

	Companies	African diggers
1961 ..	1,966,000	1,247,667
1962 ..	2,266,185	943,875
1963 ..	2,119,400	562,300
1964 ..	2,290,000	378,000
1965 ..	2,222,000	51,000
1966 ..	<i>n.a.</i>	<i>n.a.</i>

(c) Estimated.

PRODUCTION OF DIAMONDS†

£ sterling

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Ghana (b)	8,050,000	7,162,000	5,895,000	6,355,000	4,981,000	7,637,000
Lesotho	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	(a) 56,266	265,938	(a) 348,603
Sierra Leone	b17,922,000	11,634,018	a16,163,671	a19,911,496	b17,701,000	b17,038,000
Tanzania (b)	5,836,000	5,508,000	5,040,000	r 6,646,000	6,623,000	9,439,000
Guyana	967,170	(b) 800,000	(c) 800,000	(b) 966,000	(b)1,290,000	(b)1,110,000
India	64,000	28,100	38,900	91,350	185,300	86,000
Australia	—	—	—	—	—	—
TOTAL	32,840,000	25,000,000	28,000,000	r34,026,000	31,046,000	35,659,000
OTHER COUNTRIES						
Angola	(b)7,420,000	(b)7,602,000	(b)8,020,000	(b)9,786,000	b11,260,000	14,537,610
Congo Republic—						
Gem	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Industrial	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Central African Republic	612,000	(b)1,574,000	3,600,000	(b)4,700,000	(b)5,379,000	(b)5,698,000
Ivory Coast (b)	1,207,000	551,000	477,000	564,000	660,000	649,000
Guinea	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
South Africa (c)	18,968,000	17,942,000	18,636,000	22,149,000	25,686,000	32,727,000
South West Africa (c) ..	17,435,000	18,635,000	18,417,000	30,411,000	36,729,000	43,952,000
Venezuela (b)	1,200,000	1,965,000	953,000	1,581,000	1,214,000	1,158,000
TOTAL*	66,000,000	62,000,000	63,000,000	83,000,000	94,000,000	112,000,000
WORLD'S TOTAL* ..	99,000,000	87,000,000	91,000,000	117,000,000	125,000,000	147,000,000

†For quantities in metric carats see previous page.

*Including an estimate for diamonds produced in Brazil.

(a) Exports.

(b) Estimated on export value (f.o.b.).

(c) Estimated.

SALES OF DIAMONDS

Sales effected through the Central Selling Organisation of the Diamond Corporation Ltd. were as follows:

				(£ sterling)	
			<i>Gem</i>	<i>Industrial</i>	<i>Total</i>
1961 .. .. .	..	..	79,349,763	16,308,370	95,658,133
1962 .. .. .	..	..	<i>n.a.</i>	<i>n.a.</i>	96,271,340
1963 .. .. .	..	..	<i>n.a.</i>	<i>n.a.</i>	115,978,441
1964 .. .. .	..	..	<i>n.a.</i>	<i>n.a.</i>	133,186,049
1965 .. .. .	..	..	<i>n.a.</i>	<i>n.a.</i>	148,316,941
1966 .. .. .	..	..	<i>n.a.</i>	<i>n.a.</i>	177,845,823
1967 .. .. .	..	..	<i>n.a.</i>	<i>n.a.</i>	178,763,764

EXPORTS OF DIAMONDS

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Diamonds .. £	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	151,239,797	158,384,070	196,109,871
Ghana—						
Industrial diamonds Ct.	2,854,134	3,327,506	1,513,740	2,569,376	3,084,365	1,998,683
£	7,148,511	7,424,285	3,327,307	6,120,369	6,758,903	5,421,633
Sierra Leone .. Ct.	2,045,150	1,157,520	1,738,547	1,649,847	1,525,437	1,319,326
£	15,969,057	7,108,862	16,163,671	19,911,496	18,479,519	15,645,912
Tanzania .. Ct.						
Gem diamonds .. Ct.	339,982	323,978	275,958	337,711	417,097	452,988
£	4,803,374	4,510,045	4,173,247	5,795,763	6,185,707	7,698,478
Industrial diamonds Ct.	344,873	323,200	312,753	326,059	410,675	451,414
£	976,704	891,912	848,698	985,391	1,069,662	1,301,550
Guyana .. Ct.	124,622	93,845	<i>n.a.</i>	106,607	105,355	94,579
£	1,069,634	772,233	<i>n.a.</i>	938,842	1,203,704	1,062,063
Hong Kong—						
Cut and polished Ct.	53,838	65,056	93,278	57,185	128,422	150,670
£	3,128,138	4,053,603	5,924,469	5,301,594	11,447,792	14,386,131
Industrial .. £	57	3,500	3,211	—	669	10,425
India (b)—						
Gem diamonds £	(c) 6,028	(c) 519	2,243,441	2,017,175	3,546,137	5,352,306
Malaysia (West)—						
Cut and polished £	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	20,238	1,804
Australia (a)—						
Gem diamonds Ct.	422	4	7	80	118	81
£	1,122	146	2,764	4,826	5,423	3,061
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Cut and polished Ct.	1,087,704	1,183,562	1,347,032	1,520,733	1,561,285	1,646,844
£	44,540,637	48,942,384	56,868,240	69,582,566	74,649,405	89,378,579
Industrial, rough and bort .. Ct.	6,640,444	6,764,984	9,018,333	8,943,065	9,373,860	12,075,495
£	22,746,722	20,487,001	24,042,133	29,477,700	29,255,142	37,762,590
France—						
Uncut .. £	433,261	548,619	514,358	618,313	643,337	682,941
Cut .. £	1,388,633	1,003,052	1,083,090	1,605,013	1,205,007	1,553,013
Industrial diamonds £	16,201	41,497	35,277	32,885	34,812	3,644
Dust .. £	16,086	44,767	41,108	40,851	40,505	62,158
Netherlands .. Ct.	1,874,833	958,519	1,463,794	1,078,097	965,766	1,309,679
£	16,293,000	7,954,000	9,233,929	10,412,728	10,102,000	12,944,895
Dust .. Ct.	721,431	655,214	671,432	695,156	879,989	1,078,617
£	729,000	665,000	668,948	671,168	829,210	1,014,840
Sweden—						
Industrial diamonds £	54,400	57,500	64,938	68,136	64,300	109,700
Angola .. Ct.	1,276,573	985,776	1,293,243	1,094,541	1,157,411	1,264,020
£	8,254,996	6,931,325	9,571,554	9,321,830	11,275,960	13,992,259
Central African Republic .. Ct.	98,361	175,267	395,542	421,040	509,445	552,451
£	543,738	1,039,244	3,827,354	4,474,569	5,105,142	5,829,775
Congo (Republic of) Ct.	<i>n.a.</i>	2,629,070	5,683,603	5,264,891	5,303,706	<i>n.a.</i>
£	<i>n.a.</i>	4,555,700	6,885,700	7,041,400	7,127,500	<i>n.a.</i>
Guinea .. £	2,800,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ivory Coast .. Ct.	531,390	415,910	213,515	235,975	199,015	181,090
£	1,168,000	807,000	567,055	664,398	663,000	640,700
Liberia .. Ct.	1,095,632	905,000	748,000	571,868	540,000	555,000
£	794,000	<i>n.a.</i>	<i>n.a.</i>	1,392,000	<i>n.a.</i>	<i>n.a.</i>

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

(c) Excluding diamonds sent by post.

EXPORTS OF DIAMONDS (cont.)

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
South Africa (a)—						
Uncut Ct.	1,818,244	1,743,794	2,043,307	1,809,284	2,203,752	2,630,320
£	29,623,940	25,198,054	32,816,417	37,027,602	47,814,596	60,848,827
Cut and polished Ct.	138,718	132,968	124,118	111,429	146,209	174,701
£	12,280,549	11,395,195	10,207,231	10,444,073	14,510,333	18,132,667
United States—						
Uncut Ct.	31,315	22,543	28,663	39,335	60,573	85,897
£	547,587	563,552	791,556	927,795	1,102,237	1,495,184
Cut Ct.	33,337	30,005	68,939	112,975	98,870	114,941
£	4,003,891	4,940,386	11,791,063	13,907,174	14,329,631	19,520,407
Industrial diamonds Ct.	475,211	715,042	1,068,239	1,324,195	2,003,218	1,097,346
£	650,851	807,423	1,179,434	1,686,715	2,616,860	1,600,202
Dust Ct.	490,327	828,611	1,095,737	1,892,097	1,147,838	n.a.
£	484,491	791,906	1,065,309	1,467,212	1,168,736	n.a.
Brazil Ct.	141,775	n.a.	n.a.	5,345	30,585	35,515
£	886,100	n.a.	n.a.	30,978	227,916	378,863
Venezuela .. Ct.	57,277	82,189	49,583	88,960	n.a.	n.a.
£	521,000	915,000	678,000	n.a.	n.a.	n.a.
Israel—						
Polished .. Ct.	738,975	975,576	1,152,787	1,240,737	1,332,728	1,450,017
£	25,106,727	31,804,487	41,421,821	49,161,000	54,966,168	67,856,000
Industrial .. Ct.	75,434	96,284	n.a.	n.a.	n.a.	n.a.
£	247,997	279,167	n.a.	n.a.	n.a.	n.a.
Dust Ct.	6,963	5,291	n.a.	n.a.	n.a.	n.a.
£	7,566	4,879	n.a.	n.a.	n.a.	n.a.

(a) In addition synthetic diamonds were exported as follows:

		1961	1962	1963	1964	1965	1966
Ct.	.. ..	n.a.	998,519	1,475,231	2,638,598	n.a.	n.a.
£	.. ..	n.a.	550,494	1,156,355	810,418	n.a.	n.a.

IMPORTS OF DIAMONDS

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom £	n.a.	n.a.	n.a.	149,220,456	177,306,790	187,340,191
Malta—						
Rough diamonds £	n.a.	31,346	69,968	2,901	7,546	3,399
Cut and polished £	236	1,515	2,283	3,804	6,204	6,421
Zambia—						
Industrial diamonds Ct.	n.a.	n.a.	n.a.	144,323	9,857	17,505
£	n.a.	n.a.	n.a.	227,974	13,919	26,261
Canada—						
Unset Ct.	52,992	55,865	57,166	(b) 65,208	(b) 69,924	(b) 68,147
£	2,775,652	2,690,080	2,642,916	(b) 3,552,982	(b) 4,090,331	(b) 4,065,008
Dust, bort, etc... Ct.	324,388	997,396	999,454	1,318,785	1,285,945	1,398,853
£	566,808	1,764,130	1,704,373	2,214,178	2,168,271	2,443,118
Bermuda £	(a) 148,071	(a) 31,582	n.a.	n.a.	—	—
Ceylon—						
Cut and polished Ct.	363	—	—	—	—	—
£	21,302	—	—	—	—	—
Hong Kong—						
Gem diamonds .. Ct.	267,249	306,790	332,925	136,284	254,894	461,468
£	11,126,214	12,866,232	12,678,209	4,790,550	9,133,870	29,357,907
Industrial diamonds £	7,243	(a) 2,443	(a) 1,695	4,772	(a) 462	3,776
India (c)—						
Gem diamonds .. £	56,620	89,321	116,315	8,696	149,695	669,572
Industrial and bort £	103,568	32,279	39,516	192,683	139,552	379,549
Malaysia (West)—						
Gem diamonds £	n.a.	n.a.	n.a.	n.a.	1,276,317	615,844
Australia (d)—						
Industrial diamonds Ct.	283,895	217,759	260,400	470,928	370,697	405,453
£	365,770	326,921	375,285	593,615	571,405	595,000
Other diamonds Ct.	17,506	10,760	20,370	28,506	32,349	29,494
£	779,469	784,045	903,575	1,046,208	1,315,222	1,404,000
New Zealand—						
Industrial diamonds £(N.Z.)	5,370	11,458	(d) 11,644	(d) 10,492	(d) 13,265	(d) 11,488
Other diamonds £(N.Z.)	205,771	179,432	(d) 217,332	(d) 196,433	(d) 168,300	(d) 217,936
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Rough diamonds Ct.	3,615,331	3,880,889	4,652,817	5,080,413	5,764,017	7,134,069
£	35,678,869	36,237,817	40,490,058	50,393,320	52,376,176	65,232,682
Cut diamonds .. Ct.	256,641	245,103	404,554	428,975	484,589	566,405
£	14,143,737	14,689,707	23,868,326	27,962,424	29,984,182	40,872,859
Industrial, rough and bort Ct.	8,597,046	8,038,843	8,706,554	9,440,154	8,827,020	10,297,150
£	17,740,487	13,824,796	14,763,283	16,659,322	16,821,049	20,602,264
France—						
Uncut £	2,131,579	2,604,433	2,273,907	2,346,682	2,389,651	2,868,688
Cut and polished £	2,688,875	3,121,584	4,115,598	5,337,109	4,638,958	6,379,727
Industrial diamonds £	13,573	6,977	3,790	5,408	32,769	8,161
Dust £	624,421	744,041	904,300	950,599	1,086,192	1,148,510
Netherlands .. Ct.	n.a.	1,304,671	1,826,812	1,438,384	1,183,579	1,544,472
£	n.a.	7,934,000	8,398,214	10,275,512	10,747,441	12,257,024
Dust Ct.	—	506,539	539,315	597,020	950,459	1,177,370
£	—	476,000	485,913	541,998	835,370	1,152,454
Norway Ct.	2,000	12,765	4,980	5,000	95,000	5,000
£	750	2,216	1,085	1,952	2,451	2,954
Sweden—						
Industrial diamonds £	319,600	293,900	389,982	284,224	452,200	462,800

(a) Excess of re-exports.

(b) Excluding uncut.

(c) Years ended March 31 following that stated.

(d) Years ended June 30 of that stated.

IMPORTS OF DIAMONDS (cont.)

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Yugoslavia—						
Industrial diamonds Ct.	96,350	28,880	30,120	646,300	116,945	252,150
£	5,193	12,042	22,638	42,393	11,278	102,265
South Africa—						
Rough diamonds ..	(a)	(a)	(a)	(a)	(a)	(a)
Cut and polished Ct.	971	446	1,163	1,423	7,182	1,477
£	30,916	18,453	31,881	60,807	360,869	51,620
Mexico—						
Uncut Ct.	4,975	5,460	3,040	2,125	n.a.	n.a.
£	56,856	54,813	51,311	29,410	n.a.	n.a.
Industrial diamonds Ct.	189,400	114,555	102,585	131,225	n.a.	n.a.
£	75,593	87,402	116,147	92,918	n.a.	n.a.
United States—						
Uncut Ct.	2,274,923	1,420,443	1,749,641	1,547,955	1,900,936	2,032,432
£	40,953,502	36,457,710	46,382,143	53,474,506	62,663,214	74,480,654
Cut and polished Ct.	839,150	982,278	1,017,620	1,096,795	1,258,745	1,451,596
£	28,073,222	31,739,585	33,563,214	38,858,883	47,081,428	59,335,818
Industrial diamonds Ct.	13,462,739	7,725,194	9,551,542	6,529,209	5,412,395	7,408,160
£	23,696,181	13,868,802	15,646,013	13,775,968	12,355,677	14,293,492
Dust Ct.	746,707	4,555,949	2,295,486	2,752,382	4,259,995	5,453,374
£	784,214	4,295,036	2,164,991	2,371,582	3,772,443	4,639,805
Bort, manufactured Ct.	n.a.	n.a.	n.a.	3,901,982	2,612,309	3,336,252
£	n.a.	n.a.	n.a.	3,492,697	2,458,557	2,892,237
Argentina—						
Industrial diamonds Ct.	3,171,000	17,895,000	1,430,000	905,000	19,922	60,000
£	16,400	22,400	14,400	n.a.	n.a.	n.a.
Dust Ct.	5,000	10,000	2,775	12,060	2,007	3,000
£	500	400	700	1,200	n.a.	n.a.
Israel—						
Rough diamonds Ct.	1,644,905	2,154,656	2,962,000	2,972,000	2,708,000	3,125,000
£	18,360,248	25,795,620	35,782,000	41,875,000	39,599,000	49,712,000
Industrial diamonds Ct.	215	n.a.	213,000	442,000	590,000	624,000
£	1,154	n.a.	620,000	1,231,000	2,043,000	2,091,000
Bort Ct.	11,504	n.a.	440,000	542,000	504,000	699,000
£	10,268	n.a.	376,000	426,000	387,000	490,000
Dust Ct.	24,836	17,030	n.a.	n.a.	n.a.	n.a.
£	3,932	8,400	n.a.	n.a.	n.a.	n.a.
Japan—						
Industrial diamonds Ct.	254,010	266,420	341,720	382,825	390,220	524,055
£	1,013,000	1,031,601	1,407,000	1,819,000	1,857,999	2,420,110

(a) Total imports and re-exports were as follows:

	Total imports		Re-exports	
	Carats	£	Carats	£
1961	17,121,816	12,836,498	19,226,908	34,674,533
1962	16,046,826	12,535,491	16,644,518	28,578,832
1963	17,042,298	13,245,064	15,731,598	29,360,073
1964	15,737,300	13,818,406	18,389,917	30,567,203
1965	19,102,532	19,096,236	n.a.	n.a.
1966	13,286,020	14,757,100	19,850,338	23,549,404

DIATOMACEOUS EARTH
PRODUCTION OF DIATOMACEOUS EARTH

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom	22,250	20,011	14,237	13,717	15,079	14,697
Kenya	3,158	2,863	3,283	3,007	2,183	1,744
Canada (a)	191	188	712	1,021	73	291
Australia	5,417	7,312	5,133	8,732	6,958	2,740
New Zealand	3,536	1,874	1,603	1,679	1,729	4,660
OTHER COUNTRIES						
Austria	5,351	4,119	3,874	3,771	3,970	3,695
Denmark—						
Diatomaceous earth (b)	12,000	11,000	6,000	5,000	4,000	n.a.
Moler (b)	150,000	160,000	150,000	150,000	180,000	170,000
Finland	700	1,181	2,300	2,136	935	(e) 1,000
France (f)	105,740	125,083	130,629	130,981	148,256	139,027
Germany (Federal)	64,500	60,490	42,250	47,086	51,790	50,525
Italy	56,295	55,695	58,490	68,255	n.a.	n.a.
Portugal (f)	756	1,427	1,845	1,970	2,586	3,433
Spain (f)	17,273	11,922	10,026	11,167	n.a.	n.a.
Sweden	654	225	357	214	392	500
Yugoslavia (e)	4,000	4,000	10,000	10,000	10,000	n.a.
Algeria	r 31,160	r 27,290	17,369	r 20,080	15,500	n.a.
Egypt	296	50	818	n.a.	n.a.	n.a.
Mozambique	354	344	—	—	—	32
South Africa	122	578	196	487	961	214
Costa Rica	640	738	(e) 1,900	(e) 3,500	2,953	(e) 2,900
Nicaragua	2,657	1,262	(e) 1,600	—	—	—
United States	(c) 430,543	(c) 430,543	(d) 518,105	(d) 518,105	(d) 518,105	(g) 625,000
Argentina	3,422	3,340	5,585	7,649	5,999	(e) 5,900
Colombia	295	150	2,200	227	200	—
Peru	1,829	1,450	2,440	2,552	2,432	n.a.
Korea (South)	1,776	677	1,667	36,635	570	252

Diatomaceous earth is known to have been produced in Hungary, Norway, Roumania, U.S.S.R., Brazil and Japan.

- (a) Shipments.
- (b) Estimated.
- (c) Average annual production 1960—1962.
- (d) Average annual production 1963-1965.
- (e) United States Bureau of Mines' estimate.
- (f) Including tripoli.
- (g) Estimated average annual production 1966-1968.

EXPORTS OF DIATOMACEOUS EARTH

Long ton

Exporting Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Kenya	1,185	1,210	1,929	1,646	1,161	763
OTHER COUNTRIES						
Austria	176	101	161	133	136	253
Belgium-Luxemburg E.U.	792	354	797	951	926	839
Denmark—						
Diatomaceous earth ..	12,459	9,837	9,413	8,711	9,065	7,966
Moler	91,602	92,388	81,648	80,950	102,041	92,747
Moler bricks	29,885	32,467	33,740	35,944	41,036	38,811
Finland	79	125	99	117	2,139	134
France	2,977	14,434	12,001	14,360	16,302	19,471
Germany (Federal) ..	3,955	3,747	3,582	4,501	5,869	4,984
Italy	4,472	r 2,903	1,311	r 818	4,060	1,503
Netherlands	78	107	111	93	142	131
Norway	3	2	1	—	2	25
Portugal	305	283	275	532	459	334
Spain	621	359	197	523	780	949
Sweden	70	26	32	90	106	101
Yugoslavia	3,365	8,966	5,108	5,459	3,572	3,504
Algeria	15,132	r 16,144	12,951	r 14,387	10,028	n.a.
South Africa	n.a.	n.a.	n.a.	654	851	244
United States	n.a.	n.a.	n.a.	114,287	101,632	128,313
Chile	5	5	—	n.a.	n.a.	n.a.
Japan	139	221	153	449	436	429
Korea (South)	—	n.a.	—	n.a.	n.a.	n.a.

IMPORTS OF DIATOMACEOUS EARTH

Long tons

Importing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
In bulk (a)	40,963	39,888	} 53,620	56,238	45,848	42,363
Other	21,670	23,720				
Canada	25,781	23,302	23,761	22,401	22,401	26,089
India (d)	1,241	1,291	1,067	1,528	1,753	1,140
Malaysia (West) ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	238	273
Australia (b) .. .	4,543	4,317	4,259	4,579	5,789	5,028
New Zealand	1,499	1,593	(b) 895	(b) 650	(b) 706	(b) 785
OTHER COUNTRIES						
Austria	1,250	1,398	1,422	1,642	2,156	2,721
Belgium-Luxemburg						
E.U.	3,450	4,414	6,353	7,589	8,391	7,541
Denmark	1,454	1,091	1,321	1,732	1,748	2,352
Finland	1,162	2,130	1,245	1,010	752	905
France	12,351	10,500	8,822	13,793	7,860	8,987
Germany (Federal) ..	61,541	74,089	61,656	61,732	85,876	75,217
Greece	233	109	149	886	453	<i>n.a.</i>
Iceland	495	3	828	604	511	968
Italy	<i>r</i> 8,823	<i>r</i> 2,458	1,637	6,975	7,959	9,468
Netherlands	5,830	7,456	6,544	8,051	8,397	8,050
Norway	5,154	5,834	3,789	3,983	3,878	4,313
Portugal	1,357	641	848	1,197	1,493	1,572
Spain	407	1,512	1,649	1,696	1,528	1,755
Sweden	5,371	5,081	7,291	8,369	8,634	8,636
Switzerland	2,791	3,077	2,340	1,903	1,568	2,013
Yugoslavia	104	49	147	247	140	325
Angola	27	70	87	82	145	129
Egypt	1,791	1,839	2,275	397	2,305	1,381
Morocco	456	457	730	751	763	<i>n.a.</i>
South Africa	2,501	2,382	2,618	4,107	3,041	3,228
Costa Rica	77	14	379	1,275	1,085	457
Guatemala	88	115	141	186	292	307
Honduras	81	95	75	85	106	82
Mexico	(c) 1,165	(c) 3,025	(c) 1,208	(c) 1,108	270	78
Salvador	116	235	332	430	361	405
Brazil	1,719	1,103	1,653	1,187	1,667	1,993
Chile (c)	148	487	799	<i>n.a.</i>	315	<i>n.a.</i>
Colombia	1,035	1,417	856	1,166	1,124	912
Peru (c)	846	906	908	1,675	3,395	<i>n.a.</i>
Uruguay	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	245	300
Venezuela	2,313	2,731	1,931	2,602	1,958	2,085
Israel	410	827	527	190	193	343
Japan	6,147	820	637	839	763	806
Lebanon	41	162	746	652	1,533	1,188
Philippine Republic	2,119	1,862	<i>r</i> 2,223	269	2,230	<i>n.a.</i>
Thailand	25	—	5	7	30	7
Turkey	7	11	28	56	47	20

(a) Chiefly molar from Denmark.

(b) Years ended June 30 of that stated.

(c) Including tripoli, etc.

(d) Years ended March 31 following that stated.

FELDSPAR
(see also Nepheline Syenite)
PRODUCTION OF FELDSPAR

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
China stone	49,432	51,661	50,000	57,000	29,456	29,631
Kenya	1	—	—	—	—	161
Canada	9,381	8,923	7,686	8,169	9,736	14,200
Ceylon	106	56	109	4	613	412
Hong Kong	1,206	937	1,680	1,556	1,119	1,343
India	9,704	15,743	20,901	23,997	25,232	24,328
Pakistan	<i>n.a.</i>	55	1,220	48	—	—
Australia (a) .. .	8,209	8,513	8,842	9,021	8,726	6,197
OTHER COUNTRIES						
Austria	3,907	4,976	2,077	1,603	1,397	1,507
Finland	15,000	14,920	12,620	10,560	11,685	8,858
France	92,000	119,000	180,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Germany (Federal) (b) ..	265,449	269,769	273,664	299,989	313,280	285,796
Italy	93,228	98,367	100,486	109,851	94,592	135,921
Norway—						
Unground	(e) 64,000	(e) 54,000	55,599	47,475	40,918	52,291
Ground	(e) 22,000	(e) 20,000	20,506	22,547	22,067	34,457
Poland	<i>n.a.</i>	<i>n.a.</i>	26,300	(c) 26,300	(c) 26,300	(c) 27,600
Portugal	2,892	3,674	396	10,895	8,165	1,603
Spain	8,194	8,267	12,477	16,466	<i>n.a.</i>	<i>n.a.</i>
Sweden (d)—						
Unground	30,523	28,454	17,409	21,606	18,295	12,400
Ground	25,344	24,894	27,512	29,353	27,909	24,200
U.S.S.R. (c)	195,000	195,000	195,000	195,000	195,000	195,000
Yugoslavia	20,215	31,578	29,413	33,260	55,052	64,466
Angola	—	—	796	493	—	—
Egypt	—	—	—	4,653	(c) 4,000	3,444
Eritrea	2,953	425	(c) 490	(c) 9,800	—	—
Malagasy Republic	13	—	—	1	—	—
South Africa	23,390	28,210	41,372	35,525	41,636	33,996
South West Africa	88	464	2,196	1,893	2,281	1,179
Mexico	14,155	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
United States (d)	496,808	492,476	548,954	587,194	624,598	685,592
Argentina	11,474	7,245	12,599	6,390	19,822	(c) 20,000
Chile	2,280	1,138	417	814	408	1,099
Colombia	15,000	15,000	12,500	11,426	10,600	18,779
Peru	992	287	217	837	926	470
Uruguay	877	692	282	883	1,227	1,722
Japan	50,986	46,991	53,339	61,445	57,244	50,645
Korea (South)	7,520	4,651	11,392	13,468	15,595	15,053
Philippine Republic .. .	14,526	15,325	6,564	7,924	12,095	8,479
Turkey	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	2,000	<i>n.a.</i>	<i>n.a.</i>
TOTAL*	1,500,000	1,600,000	1,700,000	1,900,000	1,900,000	2,000,000

*Excluding feldspar known to have been produced in Czechoslovakia, Roumania, Brazil China and Vietnam.

(a) Including china stone.

(b) Including feldspathic sand obtained as a by-product of china clay washing.

(c) United States Bureau of Mines' estimate.

(d) Sold or used by producers.

(e) Estimated.

EXPORTS OF FELDSPAR

Long tons

Exporting Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Canada	2,345	3,302	2,930	3,023	3,345	3,057
India (b)	1,492	710	2,076	5,282	4,960	4,661
OTHER COUNTRIES						
Austria (a)	344	2,245	553	645	1,725	2,131
Belgium-Luxemburg						
E.U.	—	—	222	84	41	73
Finland	8,208	10,999	7,821	5,443	8,845	21,739
France (a)	10,487	13,451	19,172	26,476	24,938	23,096
Germany (Federal) (a) ..	13,393	11,144	11,759	11,926	11,576	11,697
Italy	r 16,413	16,737	19,126	r 21,440	22,809	23,213
Netherlands (a)	2,251	2,290	4,201	5,033	2,048	534
Norway—						
Crude	44,688	35,972	35,282	43,158	31,339	31,614
Ground	16,308	14,140	15,345	22,077	18,621	18,087
Sweden (a)	38,449	30,580	25,816	26,807	19,617	16,148
Yugoslavia	10,593	18,451	16,336	20,901	24,779	20,058
South Africa	4,774	7,682	10,298	6,255	9,966	10,677
South-West Africa	88	470	874	2,476	1,410	816
Japan	1,653	1,765	1,729	1,711	2,339	2,694
Korea (South)	n.a.	n.a.	4,008	11,094	21,437	13,245

(a) May include some leucite and nephelite.

(b) Years ended March 31 following that stated.

IMPORTS OF FELDSPAR

Long tons

Importing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom	38,023	36,586	36,298	58,101	61,476	80,655
Canada	1,537	1,697	2,322	n.a.	n.a.	n.a.
New Zealand	443	(a) 1,486	(a)(c) 2,854	(a)(c) 1,399	(a)(c) 1,349	n.a.
OTHER COUNTRIES						
Austria (b)	4,390	4,311	5,952	7,285	8,366	8,010
Belgium-Luxemburg						
E.U. (b)	31,067	31,701	25,406	30,422	29,920	33,160
Denmark (b)	4,576	5,483	6,193	4,192	5,307	6,157
Finland (b)	395	648	1,064	727	891	1,023
France (b)	7,347	9,865	9,237	10,968	15,688	15,278
Germany (Federal) (b) ..	28,164	32,337	37,265	43,057	50,397	52,140
Italy	8,218	r 9,527	11,260	10,808	14,481	10,212
Netherlands (b)	20,814	19,618	28,456	28,489	26,540	25,638
Poland	8,961	n.a.	7,366	11,654	13,955	11,281
Sweden (b)	240	873	313	307	2,870	4,895
Morocco (b)	251	217	69	—	—	n.a.
South Africa (b)	n.a.	n.a.	n.a.	104	n.a.	n.a.
Mexico	1,911	1,270	1,346	1,413	1,041	1,439
United States	2,553	3,330	3,074	3,180	3,455	3,243
Colombia	(a) 243	(a) 297	(a) 509	(a) 202	84	19
Venezuela	4,798	6,492	4,927	7,864	7,827	8,399
Israel	2,044	1,909	1,639	2,048	2,658	1,946
Japan	1,108	2,543	2,666	5,880	4,251	4,339
Vietnam (South)	126	88	105	n.a.	n.a.	n.a.

(a) Including fluorspar.

(c) Years ended June 30 of that stated.

(b) May include some leucite and nephelite.

FLUORSPAR
PRODUCTION OF FLUORSPAR

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom (a) ..	85,396	71,744	87,099	107,765	128,933	152,211
Rhodesia	—	18	306	69	<i>n.a.</i>	<i>n.a.</i>
Canada (e)	£701,046	£623,083	£654,285	£749,683	£888,365	£728,289
India	327	647	697	383	641	2,130
Australia	—	—	15	—	—	—
OTHER COUNTRIES						
France	191,907	223,513	210,353	261,400	299,935	315,000
Germany—						
Federal Republic ..	119,210	104,100	102,921	88,357	81,609	83,210
East (b)	70,000	70,000	70,000	70,000	80,000	80,000
Italy	154,091	157,776	132,507	r 122,725	145,527	192,137
Spain	144,602	147,640	150,977	147,317	217,186	232,020
Sweden (c)	3,162	3,442	2,904	—	—	—
U.S.S.R. (b)	210,000	235,000	270,000	300,000	350,000	350,000
Morocco	776	487	6,250	6,466	3,000	—
South Africa	85,591	99,717	51,572	59,313	64,747	80,595
South West Africa ..	—	214	429	—	—	—
Tunisia	—	—	—	—	5,000	6,000
Mexico	392,220	494,325	474,012	632,719	723,766	714,925
United States (d) ..	176,209	183,952	178,525	193,872	215,118	225,954
Argentina	10,112	12,320	9,608	9,816	11,736	9,350
China (b)	200,000	200,000	200,000	200,000	220,000	225,000
Japan	14,577	15,286	20,569	18,820	16,254	(b) 15,700
Korea (South)	27,491	32,449	39,157	55,506	38,548	31,502
Mongolia	37,400	37,300	(b) 48,000	(b) 56,100	(b) 73,800	(b) 73,800
Thailand	4,680	10,541	28,768	62,535	51,013	47,268
Turkey	37	572	642	1,282	1,060	1,725
TOTAL	2,000,000	r 2,200,000	r 2,200,000	2,500,000	2,800,000	2,900,000

Fluorspar is also known to have been produced in Belgium, Bulgaria, Burma and North Korea.

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

(b) United States Bureau of Mines' estimate.

(c) Sales.

(d) Shipments from mine.

(e) Official figures available by value only. Company figures of shipments, which exclude small amounts produced in British Columbia, are as follows (long tons): 1961—70,200; 1962—69,400; 1963—76,000; 1964—86,000; 1965—100,000; 1966—*n.a.*

EXPORTS OF FLUORSPAR

Long tons

Exporting Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Canada	1,829	4	2,688	<i>n.a.</i>	<i>n.a.</i>	11
OTHER COUNTRIES						
Finland	<i>n.a.</i>	<i>n.a.</i>	—	592	19	2,371
France	37,705	43,471	45,836	57,699	84,968	87,001
Germany (Federal)	20,959	14,109	11,415	12,146	10,431	11,045
Italy	66,029	48,341	37,664	46,413	51,636	54,403
Spain	99,900	86,611	85,238	135,149	152,128	128,314
Sweden	343	474	148	58	—	348
Morocco	229	<i>n.a.</i>	1,499	8,905	1,422	<i>n.a.</i>
South Africa	76,469	69,810	52,602	50,503	41,954	56,621
South-West Africa	—	91	—	—	—	—
Mexico	407,903	460,908	492,368	618,761	670,380	731,456
United States	301	1,168	1,073	3,305	8,419	5,118
Argentina	826	569	549	667	504	867
Bolivia	—	<i>n.a.</i>	<i>n.a.</i>	9	<i>n.a.</i>	<i>n.a.</i>
Japan	<i>n.a.</i>	57	44	37	238	268
Korea (South)	32,856	23,238	31,392	31,760	32,013	38,599
Thailand	5,050	6,852	15,624	38,055	47,140	72,507

IMPORTS OF FLUORSPAR

Long tons

Importing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Canada	29,177	60,578	59,625	62,487	62,364	67,254
India (c)	8,001	7,157	10,377	4,226	3,111	5,545
Australia (a)	2,137	2,692	7,585	5,915	8,430	15,529
OTHER COUNTRIES						
Austria	12,444	8,010	8,307	14,362	13,794	13,591
Belgium-Luxemburg	—	—	—	—	—	—
E.U.	6,819	6,339	6,328	8,005	7,059	6,487
Denmark	642	569	456	472	597	1,668
Finland	5,867	4,802	2,905	3,162	6,282	4,840
France	502	224	76	—	324	3,060
Germany (Federal)	69,245	64,581	46,642	59,773	109,095	118,441
Italy	7,370	7,998	9,778	14,559	5,587	14,612
Netherlands	7,148	10,937	8,702	14,243	18,672	15,558
Norway	2,724	1,512	1,534	1,859	3,094	2,738
Poland	26,100	<i>n.a.</i>	22,000	26,400	29,784	39,579
Sweden	13,196	14,097	10,698	11,020	20,553	20,858
U.S.S.R.	74,800	78,900	89,500	130,400	114,500	93,400
Yugoslavia	3,057	3,418	3,026	3,972	3,429	7,010
Mexico	—	—	50	11	8	70
United States	451,571	532,044	495,646	614,226	729,059	784,416
Brazil	639	543	443	—	—	—
Chile	<i>n.a.</i>	<i>n.a.</i>	418	<i>n.a.</i>	742	<i>n.a.</i>
Colombia	(b) 243	(b) 297	(b) 509	(b) 202	186	147
Venezuela	166	542	382	475	164	3,744
Israel	<i>n.a.</i>	361	756	513	915	318
Japan	123,857	100,629	126,856	203,573	168,851	220,710

(a) Years ended June 30 of that stated. (c) Years ended March 31 following that stated.

(b) Including feldspar.

FULLER'S EARTH
(see also Bentonite)
PRODUCTION OF FULLER'S EARTH

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
India	(b) 7,000	(b) 16,000	(b) 39,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Pakistan	10,793	8,882	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Australia	192	392	70	159	152	—
OTHER COUNTRIES						
Algeria	114,554	37,820	80,319	52,087	58,940	(b) 60,000
Morocco	37,993	32,124	36,777	31,779	37,009	30,004
South Africa	707	934	879	161	580	—
United States (a)	376,947	366,062	430,194	492,755	602,162	678,248

Fuller's earth is also produced in the United Kingdom, France, Senegal, Iran, Japan and Turkey.

(a) Sold or used by producers.

(b) Estimated.

EXPORTS OF FULLER'S EARTH*

Long tons

Exporting Country	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
Morocco	27,148	25,897	28,867	22,833	21,956	<i>n.a.</i>
United States	(a) 250	(a) 214	<i>n.a.</i>	<i>n.a.</i>	16,585	20,784
Iran (b)	26	27	16	74	7	6

*Statistics of exports of Fuller's earth are not generally separately recorded in official trade returns.

(a) As recorded by producers.

(b) Years ended March 20 of year following that stated.

IMPORTS OF FULLER'S EARTH

Long tons

Importing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Malawi	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	48	<i>n.a.</i>	<i>n.a.</i>
Zambia	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	157	223
Canada	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	5,566	6,125	6,805
	(£55,302)	(£57,827)	(£46,660)	(£61,410)	(£65,546)	(£72,968)
Ceylon	123	147	211	354	201	433
India (a)	403	120	129	254	177	47
New Zealand	270	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
OTHER COUNTRIES						
South Africa	745	977	1,137	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Chile	1,292	942	423	<i>n.a.</i>	5	<i>n.a.</i>
Peru	1,782	1,964	2,186	1,487	1,214	<i>n.a.</i>
Venezuela	596	501	439	549	913	797
Burma	928	978	48	139	337	<i>n.a.</i>
Israel	1,334	2,376	3,666	4,526	<i>n.a.</i>	<i>n.a.</i>

(a) Years ended March 31 following that stated.

GOLD
PRODUCTION OF GOLD
(Metal content)

Fine troy ounces

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Botswana	261	288	142	10	—	—
Ghana	833,800	888,700	920,895	864,918	755,191	684,395
Kenya	12,299	9,327	10,193	12,480	12,013	11,898
Nigeria	543	329	252	195	63	40
Rhodesia	570,095	544,647	566,278	575,386	544,100	(d) 550,000
Sierra Leone	19	26	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Swaziland	1,325	2,214	2,092	2,078	1,619	308
Tanzania	(a) 100,425	104,383	100,399	93,338	(b) 90,819	(b) 55,473
Uganda (b)	383	240	50	—	40	—
Zambia	4,192	5,326	4,960	5,130	5,196	<i>n.a.</i>
Canada	4,473,699	4,178,396	4,003,127	3,835,454	3,606,031	3,318,006
Guyana	1,562	1,747	2,613	1,936	1,906	2,795
India	156,500	163,300	138,400	148,500	130,600	120,200
Malaysia (West) (c)	11,900	6,600	8,700	6,900	3,800	2,800
Sarawak	4,132	2,885	2,773	3,115	2,601	2,611
Australia	1,076,292	1,068,837	1,023,970	963,834	877,643	914,295
Fiji	83,417	87,354	107,262	100,493	109,095	112,567
New Guinea and Papua	41,820	39,052	43,599	38,978	32,494	28,106
New Zealand	28,294	21,742	14,206	8,948	12,136	8,964
TOTAL	7,401,000	7,125,000	6,950,000	6,662,000	6,185,000	5,818,000
OTHER COUNTRIES						
Finland	20,609	15,239	20,416	22,055	18,037	15,465
France	48,680	51,090	53,630	54,296	57,390	60,150
Germany (Federal)	2,186	1,704	2,048	2,402	1,865	(d) 1,800
Italy	600	—	—	—	—	—
Portugal	22,400	21,900	21,900	21,300	21,500	18,800
Spain	8,200	6,700	16,000	24,000	8,300	450
Sweden	86,870	128,600	115,200	117,700	118,100	79,570
Yugoslavia	67,195	70,507	83,656	106,773	103,911	(d) 104,500
Angola	48	77	37	r 7	2	—
Cameroun	537	580	1,743	864	1,352	1,000
Central African Republic	r 70	r 90	r 90	r 70	20	40
Congo (Republic of)	r 3,101	r 3,470	r 2,700	r 3,270	3,390	3,730
Congo Republic	232,600	205,000	214,100	189,000	66,000	160,000
Egypt	931	—	—	—	—	—
Eritrea	5,529	2,315	(d) 2,300	(d) 2,300	} 24,236	(d) 24,000
Ethiopia	41,500	25,700	(d) 25,000	(d) 25,000		
Gabon	r 14,000	r 14,900	r 32,700	r 39,100	34,000	31,500
Liberia (d) (e)	2,088	2,184	1,960	1,824	1,701	4,351
Malagasy Republic	r 330	r 309	900	r 420	568	809
Morocco	136	—	—	—	—	—
Mozambique	105	91	29	40	30	11
Rwanda and Burundi	817	30	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
South Africa	22,941,561	25,491,993	27,431,956	29,111,524	30,553,874	30,879,700
South-West Africa	—	183	3	32	14	—
Sudan	1,266	932	877	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

- (a) Including 521 ounces of gold in lead concentrates exported.
- (b) Exports.
- (c) Estimated.
- (d) United States Bureau of Mines' estimate.
- (e) Years ended August 31 of year stated.

PRODUCTION OF GOLD (cont.)

Fine troy ounces

Producing Country	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Upper Volta	r(b) 14,000	r 35,790	r 40,310	r 29,400	29,250	14,470
Costa Rica (c)	3,000	3,000	3,000	3,000	600	600
Cuba (e)	—	—	61	—	—	—
Guatemala	—	(e) 8	—	—	—	—
Haiti	4,341	7,149	6,778	8,090	6,719	5,071
Honduras (e)	1,685	2,132	2,474	3,319	3,546	3,516
Mexico	268,678	236,800	237,900	210,000	215,800	213,600
Nicaragua	226,250	221,984	204,769	211,900	198,152	169,154
Salvador	—	(e) 692	(e) 230	(e) 390	(e) 290	(e) 236
United States	1,548,270	1,542,511	1,454,010	1,456,308	1,705,190	1,803,420
Argentina	2,270	960	480	300	60	60
Bolivia (d)	81,216	35,052	153,033	50,042	84,950	16,268
Brazil (a)	118,600	127,200	132,000	142,500	155,000	168,000
Chile	53,150	58,320	75,880	63,080	57,100	67,770
Colombia	401,060	396,827	324,518	364,748	316,267	275,267
Ecuador	15,210	20,591	21,041	16,905	11,512	10,892
French Guiana	7,900	5,300	r 6,000	—	—	630
Peru	137,418	122,985	101,019	92,503	105,183	94,978
Surinam	4,019	2,604	3,548	8,258	6,269	5,159
Venezuela	30,071	28,774	26,947	33,536	22,390	16,895
Burma	194	(c) 200	(c) 200	(c) 200	(c) 200	(c) 200
Cambodia	4,180	965	6,687	(c) 6,000	(c) 4,500	(c) 4,000
Formosa	17,600	24,000	31,700	17,700	32,100	41,800
Indonesia	5,337	4,469	4,437	5,813	6,752	4,128
Japan	294,534	286,593	262,142	253,300	264,900	254,400
Korea (South)	84,110	106,500	90,090	75,780	62,820	60,540
Philippine Republic	423,983	423,394	376,006	425,770	437,474	452,672
TOTAL*	27,200,000	29,700,000	31,600,000	33,200,000	34,700,000	35,100,000
WORLD'S TOTAL* (excl. U.S.S.R.)	34,600,000	36,800,000	38,500,000	39,900,000	40,900,000	40,900,000

*In view of the wide divergences in estimates of the production of gold in the U.S.S.R. (ranging from 2-18 million ounces) figures for that country have been omitted. The United States Bureau of Mines' revised estimate of annual production in recent years is 4-6 million ounces.

- (a) Mined gold only.
- (b) Estimated.
- (c) United States Bureau of Mines' estimate.
- (d) Exports.
- (e) Imports into the United States.

TOTAL EXPORTS OF GOLD*

(Metal content)

Fine troy ounces

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Bullion, refined	24,604,143	28,965,803	18,985,458	17,593,435	76,518,130	36,952,000
Coin	868,860	694,102	865,340	2,408,318	2,100,438	1,324,117
Ghana—						
Bullion	852,619	945,829	910,367	830,839	782,723	690,036
Kenya—						
Bullion	12,100	8,917	8,868	12,162	13,813	12,019
Rhodesia (d)—						
Concentrates, etc.*	1,500	1,400	1,200	1,000	<i>n.a.</i>	<i>n.a.</i>
Bullion	565,169	548,999	557,271	565,110	<i>n.a.</i>	<i>n.a.</i>
Tanzania—						
Concentrates	521	—	—	—	—	—
Bullion, refined	99,574	101,597	102,519	93,040	90,817	55,473
Uganda—						
Bullion	383	240*	50*	—	40*	—
Canada—						
Bullion—						
Unrefined	75,796	60,812	76,131	87,797	87,479	86,352
Refined	3,658,605	2,769,243	2,305,337	3,161,509	1,940,013	1,171,898
Coin*	60	39,200	47,700	71,800	124,400	249,700
Guyana—						
Bullion	1	21	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
India—						
Bullion	(b) 1	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Australia (a)—						
Ores, etc.	28,930	42,195	47,305	55,568	48,543	131,349
Bullion, refined	2,552,869	573,106	394,950	449,003	576,575	768,702
do. unrefined	—	7	16,018	562	157	1
Fiji—						
Bullion	95,349	84,926	111,260	(c) 100,193	(c) 109,760	(c) 109,732
New Guinea (a)—						
Bullion	43,363	45,910	42,576	42,003	34,262	30,038
New Zealand*—						
Beaten, rolled or drawn	22,000	16,000	(a) 18,000	(a) 8,000	(a) 7,000	(a) 5,000
Papua (a)—						
Bullion	75	19	48	28	56	56
Solomon Islands—						
Bullion	59	457	240	101	323	349
Irish Republic*—						
Bullion	1,500	5,200	1,502	1,338	1,380	3,900
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Bullion and scrap	40,000*	79,000*	51,000	48,000	51,000	79,000*
Coin	186,000	235,000	289,000	113,000	60,000	106,000
France—						
Bullion and scrap	1,011,000	632,000*	691,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Coin	18,000	—	57,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Beaten, rolled or drawn	49,000*	30,000*	32,000	28,000	21,000*	47,000*
Germany (Federal)—						
Bullion	127,000	157,000	204,000	241,000	316,800	300,000

*Some countries record trade in gold by value or by the gross weight of bullion only. In such cases the weight has been obtained by dividing the value by the official annual average price of gold per fine ounce but in no case has any account been taken of the premium. Countries or items for which this conversion has been effected are marked with an asterisk.

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

(c) Owing to revised method of calculation not strictly comparable with earlier years.

(d) Figures for years 1961 to 1963 relate to Rhodesia and Nyasaland.

EXPORTS OF GOLD (cont.)

Fine troy ounces

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Netherlands—						
Bullion, etc.	77,000*	76,000	13,000*	17,000*	78,000*	28,000*
Coin	5,000	400	—	1,100	—	29,000
Sweden*—						
Bullion	49,000	52,000	54,000	57,000	56,000	57,000
Switzerland—						
Bullion	244,000	272,000	377,000	497,000	702,000*	659,000*
Cameroun—						
Bullion	600	700*	1,600	800	700*	n.a.
Equatorial African Community—						
Bullion	16,000*	14,000*	33,000	35,000*	30,000*	25,000*
Mozambique—						
Bullion	376,000	228,000*	397,000*	393,000*	291,000	294,000
South Africa—						
Ore and concentrates* ..	640	1,393	n.a.	n.a.	n.a.	n.a.
Bullion	19,505,000	19,390,000	23,733,000	30,846,000	35,090,000	24,534,000
Sudan*—						
Bullion	400	600	—	200	n.a.	n.a.
Upper Volta—						
Bullion	7,000	28,000	45,000	33,000	n.a.	n.a.
Honduras—						
Ore and base bullion ..	2,310	10,819	3,044	2,200*	—	3,860
Mexico—						
Bullion	614,000	36,000	30,000	22,000	6,000	7,000
Nicaragua—						
Bullion	210,748	221,325	203,386	200,749	153,900*	147,829
United States—						
Ore and base bullion ..	13,717	22,724	30,107	21,566	49,836	49,117
Refined bullion	22,132,692	10,861,510	5,789,826	12,056,841	36,667,207	13,017,549
Bolivia—						
Ore	258	430	336	488	300	} 16,268
Bullion	80,958	34,622	152,697	49,554	84,650	
Chile—						
Ores and concentrates ..	46,586	51,248	69,639	55,621	52,920	n.a.
Ecuador—						
Concentrates*	15,000	20,000	n.a.	n.a.	n.a.	n.a.
French Guiana—						
Bullion	8,000*	5,500*	n.a.	n.a.	n.a.	n.a.
Peru—						
Ores, concentrates, etc.	54,416	58,902	40,197	36,847	35,734	} 60,000
Bullion	18,946	12,497	3,658	2,487	8,900	
Philippine Republic—						
Ore and base bullion (a)	80,507	47,673	56,138	46,067	62,184	93,872
Refined bullion (a) ..	466,782	298,229	291,045	318,615	321,583	295,718

(a) Imports into the United States.

TOTAL IMPORTS OF GOLD*

(Metal content)

Fine troy ounces

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore, etc.*	49,700	59,300	70	300	8,200	5,000
Bullion—						
Unrefined	1,521,129	1,539,964	1,675,865	1,550,421	1,526,633	763,770
Refined	49,265,267	32,542,211	32,622,702	39,299,321	37,884,653	25,838,792
Coin	9,980	500,348	382,260	451,450	551,080	72,060
Malta*—						
Bullion and coin ..	8,300	6,300	7,000	9,200	11,000	13,200
Ghana—						
Bullion	160,190	1,425	7,034	4,942	—	<i>n.a.</i>
Partly worked	1,499	—	1,094	808	1,904	<i>n.a.</i>
Coin	1,060	—	—	2,115	49,933	<i>n.a.</i>
Kenya—						
Bullion	294	398	634	5,285	6,858	7,034
Rhodesia* (d)—						
Concentrates	2,400	3,900	2,800	2,200	<i>n.a.</i>	<i>n.a.</i>
Tanzania—						
Bullion	—	—	1,269	1,434	2,700	3,676
Uganda—						
Bullion	240	—	1,152	2,599	1,172	3,810
Canada—						
Bullion	122,222	80,436	119,803	141,318	373,302	155,716
Coin*	213,000	50,000	520,000	75,000	442,000	29,000
Jamaica*—						
Bullion and coin ..	—	200	<i>n.a.</i>	200	<i>n.a.</i>	—
Trinidad and Tobago—						
Bullion	6,600	7,349	8,718	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Brunei—						
Bullion	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	52,750	38,588	59,217
Ceylon*—						
Bullion	11,000	11,000	40	100	11,000	—
Partly worked	—	—	11,200	13,500	100	12,700
Cyprus—						
Bullion	5,918	7,182	10,219	7,581	13,036	15,706
Hong Kong—						
Bullion	6,000	18,000	3,000	13,000	33,000	60,000
India—						
Bullion	(c) 43,973	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Coin	(c) 467	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sabah—						
Bullion	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	4,610	15,528	<i>n.a.</i>
Sarawak—						
Bullion (b)	230,000	29,000	24,000	23,000	30,000	26,000
Australia (a)—						
Bullion	141,138	135,715	155,595	149,109	129,415	(e) 197,748
Fiji*—						
Bullion	600	300	200	400	200	300
New Zealand—						
Bullion	4,816	3,598	(a) 47	(a) 1,257	(a) 429	} (a) 7,954
Beaten, rolled or drawn	181	6,662	(a) 10,837	r(a) 9,746	(a) 10,150	
Irish Republic*—						
Bullion	4,380	1,300	4,800	12,800	21,200	20,400

*See note on page 131.

(a) Years ended June 30 of that stated.

(b) Including coin and partly worked.

(c) Years ended March 31 following that stated.

(d) Figures for years 1961 to 1963 relate to Rhodesia and Nyasaland.

(e) Owing to reclassification not strictly comparable with earlier years.

IMPORTS OF GOLD (cont.)

Fine troy ounces

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
Austria—						
Bullion	743,000*	963,000*	211,000	683,000*	986,000*	1,161,000*
Belgium-Luxemburg						
E.U.—						
Bullion, scrap, etc. ..	558,000*	284,000*	293,000	418,000	1,140,000*	656,000*
Coin	240,000	260,000	309,000	270,000	610,000*	579,000
Finland—						
Bullion and scrap ..	n.a.	n.a.	800	n.a.	n.a.	n.a.
France—						
Bullion and scrap ..	6,428,000	2,569,000*	10,011,000	n.a.	n.a.	n.a.
Coin	24,000	6,000	9,000	n.a.	n.a.	n.a.
Beaten, rolled or drawn	6,000*	8,000	12,000	15,000	14,000	15,000
Germany (Federal)—						
Bullion	2,408,000	2,898,000	2,174,000	2,694,000	3,656,900*	3,686,000*
Coin	171,000	253,000	83,000	99,000	251,100	345,000
Italy—						
Bullion and scrap ..	1,476,000*	3,782,000	2,413,000*	1,299,000*	1,578,000	1,071,000*
Netherlands—						
Bullion	186,000	188,000	146,000*	197,000	235,000*	38,000
Coin	300	—	—	100	—	1,000
Norway—						
Bullion	17,000	18,000	16,000	24,000	29,800	26,200
Sheets and rolled	1,500*	1,500*	3,000*	5,000	4,400*	5,500*
Sweden—						
Bullion*	52,000	354,000	158,000	176,000	270,000	202,000
Switzerland—						
Bullion	58,000	46,000	64,000	162,900	245,000	247,000
Egypt—						
Bullion	1,000	—	n.a.	n.a.	n.a.	n.a.
Mozambique—						
Bullion	110,000	110,000	112,000*	102,000*	200*	266,000
Sudan—						
Bullion	666	—	—	64	n.a.	n.a.
Mexico—						
Bullion	1,000	n.a.	n.a.	n.a.	n.a.	n.a.
United States—						
Ore and base bullion ..	456,139	382,468	313,280	314,674	292,167	333,119
Refined bullion ..	1,159,320	3,929,718	967,339	854,211	2,613,161	866,926
Brazil—						
Bullion	200	400	600	1,300	125	250*
Formosa—						
Bullion	69,000	71,000*	110,000	112,000	11,000	215,000
Lebanon—						
Bullion and scrap ..	1,924,000	2,450,000	1,418,000	2,272,000	2,610,000*	3,284,000
Syria—						
Bullion and scrap (a) ..	643	n.a.	n.a.	11,800	n.a.	n.a.

(a) Gross weight.

GRAPHITE
PRODUCTION OF GRAPHITE

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Canada	1	—	—	—	—	—
Ceylon (c)	8,942	8,630	8,286	10,676	8,740	9,867
Hong Kong—						
80% fixed carbon ..	1,208	351	537	617	—	—
50% fixed carbon ..	458	454	259	93	—	—
OTHER COUNTRIES						
Austria (a)	79,692	87,872	98,016	100,622	84,401	78,283
Germany (Federal) ..	11,694	11,727	12,609	13,211	13,397	12,935
Italy	4,005	2,970	1,833	1,664	1,208	1,053
Norway	5,625	6,449	7,508	7,128	8,346	7,818
Spain	271	—	—	—	—	—
U.S.S.R. (b)	50,000	55,000	55,000	55,000	55,000	55,000
Malagasy Republic—						
Flake	7,645	16,203	8,986	6,953	8,012	7,873
Powder	7,063					
South Africa	860	1,168	599	930	399	1,037
South-West Africa ..	—	—	—	246	354	357
Mexico	17,720	28,565	r 29,519	29,857	39,775	38,140
Argentina	776	467	205	218	114	138
Brazil	1,428	1,486	5,929	4,598	6,851	9,018
China (b)	40,000	40,000	40,000	40,000	40,000	40,000
Formosa	787	(b) 800	(b) 800	n.a.	n.a.	n.a.
Japan—						
Flake	2,952	2,982	2,501	2,024	2,216	2,196
Amorphous	473	421	450	388		
Korea (South)—						
Flake	1,205	1,197	1,664	2,043	2,724	2,126
Amorphous	87,091	180,975	332,651	258,238	250,235	126,746
Korea (North) (b) ..	65,000	65,000	70,000	70,000	70,000	75,000
TOTAL*	400,000	530,000	700,000	625,000	615,000	490,000

*An allowance has been made for graphite produced in India, Czechoslovakia and the United States.

(a) Crude.

(b) United States Bureau of Mines' estimate.

(c) Exports.

EXPORTS OF GRAPHITE

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Crucibles	3,272	2,964	2,644	3,527	3,553	3,391
Kenya	131	81	—	—	—	—
Ceylon	8,942	8,630	8,286	10,676	8,740	9,867
Hong Kong	1,122	461	100	460	352	305
India (b)	16	19	14	14	8	11
Australia (a)	7	3	10	3	20	21
OTHER COUNTRIES						
Austria	19,701	17,938	19,212	18,850	20,852	16,610
Belgium-Luxemburg						
E.U.	96	41	13	44	8	28
Denmark	8	4	3	10	13	7
France	1,146	1,166	1,738	2,250	1,871	1,760
Germany (Federal)	5,345	6,531	6,454	6,589	7,636	7,065
Italy	1,676	1,588	1,492	1,272	1,654	1,398
Netherlands	86	153	3	81	27	59
Norway	6,080	6,550	7,138	7,389	8,211	7,638
Sweden	49	26	35	8	24	133
U.S.S.R.	4,400	5,100	6,300	7,400	6,000	8,200
Malagasy Republic	14,654	16,203	15,547	13,833	17,661	16,549
Morocco	19	—	—	—	—	—
South Africa	37	18	—	38	65	24
Mexico	17,359	29,741	29,418	31,194	36,871	36,586
United States	1,391	1,035	803	1,753	2,854	2,822
Formosa	n.a.	n.a.	20	261	192	185
Japan	619	3,248	414	345	689	666
Korea (South)	56,543	46,631	46,667	42,045	48,102	55,183

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

IMPORTS OF GRAPHITE

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Natural	9,380	8,732	7,963	9,137	10,284	10,011
Artificial	382	262	205	531	2,635	737
Mauritius—						
Crucibles	1	—	—	—	—	—
Rhodesia (d)	52	47	40	n.a.	n.a.	n.a.
Canada—						
Unground	(£16,714)	(£19,525)	(£28,805)	n.a.	n.a.	n.a.
Ground, including manufactures	(£332,955)	(£455,912)	(£779,409)	n.a.	n.a.	n.a.
Crucibles	(£76,008)	(£85,142)	(£94,108)	(£81,196)	(£92,367)	n.a.
Hong Kong	1,492	(c) 954	110	417	60	31
India (a)—						
Graphite	1,415	2,285	1,051	2,183	13,359	908
Crucibles	(£235,554)	(£185,635)	(£171,540)	(£221,320)	(£257,062)	(£123,353)
Malaysia West	n.a.	n.a.	n.a.	n.a.	109	145
Pakistan—						
Graphite	300	391	441	474	n.a.	n.a.
Australia (b)	(e) 1,039	(e) 836	(e) 1,223	(e) 1,268	(e) 1,543	1,211
New Zealand	108	34	(b) 41	(b) 27	(b) 36	(b) 89
OTHER COUNTRIES						
Austria—						
Graphite	164	216	141	219	293	231
Crucibles, etc.	195	167	160	174	227	259
Belgium-Luxemburg						
E.U.	1,236	906	870	997	887	617
Denmark	401	574	364	405	361	403
Finland	220	322	326	242	424	386
France	5,137	4,778	5,014	4,375	4,928	4,803
Germany (Federal)	16,340	14,227	13,109	15,955	17,449	14,284
Germany (East)	4,885	4,511	5,399	5,482	5,447	4,379
Greece	163	240	257	270	363	290
Iceland	15	11	1	—	—	1
Italy	8,923	8,788	10,203	9,181	11,275	9,385
Netherlands	399	390	386	358	337	242
Norway	602	413	245	244	280	452
Poland	8,025	n.a.	9,781	10,352	10,405	12,266
Portugal	118	112	104	109	130	142
Spain	344	475	677	796	788	926
Sweden	854	819	909	897	924	1,438
Switzerland	684	646	658	552	547	616
Yugoslavia	1,154	1,208	1,102	1,043	1,032	919
Egypt	112	328	n.a.	n.a.	n.a.	n.a.
Morocco	20	19	21	14	18	n.a.
Mozambique	1	4	3	33	6	4
South Africa	281	554	771	540	442	422
Sudan	3	—	10	—	—	9
Tunisia	4	—	—	—	12	n.a.
Mexico—						
Graphite	146	82	60	65	266	131
Crucibles	264	215	229	299	157	155

(a) Years ended March 31 following that stated.

(b) Years ended June 30 of that stated.

(c) Excess of re-exports.

(d) Figures for years 1961 to 1963 relate to Rhodesia and Nyasaland.

(e) Including artificial.

IMPORTS OF GRAPHITE (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
United States (a) ..	26,398	31,151	46,263	42,093	51,798	50,568
Argentina	124	119	207	149	333	340
Brazil—						
Graphite	197	189	3	133	177	124
Crucibles	323	372	456	401	218	587
Chile	128	59	145	n.a.	84	n.a.
Colombia (b) ..	76	39	45	39	54	107
Peru (b)	59	50	37	87	107	n.a.
Uruguay	n.a.	n.a.	n.a.	n.a.	32	3
Venezuela	58	143	88	184	295	524
Burma	54	75	n.a.	96	472	n.a.
Formosa	980	1,545	1,823	1,522	2,846	2,750
Indonesia (b) ..	505	n.a.	n.a.	n.a.	n.a.	n.a.
Israel—						
Crucibles	n.a.	25	n.a.	n.a.	n.a.	n.a.
Lebanon (b)	31	19	37	538	105	n.a.
Japan	67,302	65,256	60,330	55,773	51,437	51,909
Philippine Republic ..	140	270	74	107	34	n.a.
Thailand	611	452	490	482	471	431
Turkey—						
Graphite	79	78	105	137	138	143
Crucibles, etc. ..	44	106	140	118	165	152

(a) In addition the following amounts of artificial graphite were imported:

Year	Long tons
1961	163
1962	4,142
1963	329
1964	50
1965	37
1966	99

(b) Including artificial graphite.

GYPSUM
PRODUCTION OF GYPSUM

Long tons.

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Gypsum	1,888,700	1,966,600	1,990,800	2,467,100	2,596,200	2,534,000
Anhydrite	1,842,200	2,032,300	2,079,000	2,048,000	1,799,000	1,755,000
Kenya	19,768	26,420	20,401	27,552	33,929	33,210
Tanzania	1,306	1,965	1,847	2,910	4,488	4,750
Zambia	—	—	—	—	—	1,058
Canada (a)	4,517,641	4,820,113	5,430,622	f 5,679,183	f 5,630,026	f 5,341,008
Jamaica	223,045	225,307	228,303	192,128	208,492	189,546
Trinidad	2,804	3,587	2,958	2,260	1,836	1,981
Cyprus (b)	130,000	140,000	120,000	70,000	80,000	70,000
India	851,911	1,106,689	1,172,103	868,555	1,142,000	1,273,000
Pakistan (g)	100,478	179,305	194,578	192,283	147,068	111,210
Australia	609,907	630,910	725,444	795,003	833,521	800,183
Irish Republic	164,426	173,593	200,757	228,036	n.a.	n.a.
OTHER COUNTRIES						
Austria—						
Gypsum	468,989	483,704	421,546	376,441	459,911	616,064
Anhydrite	200,372	189,631	153,845	182,657	148,250	148,653
Bulgaria	133,000	115,000	100,000	127,000	171,000	(e) 177,000
Czechoslovakia	350,000	367,000	297,000	345,000	366,000	(e) 374,000
France (a)	3,774,506	3,933,861	4,141,636	4,834,477	4,933,544	5,188,513
Germany (Federal)—						
Gypsum	(c) 1,173,689	(c) 1,095,387	(c) 1,120,340	(c) 1,258,200	(c) 1,279,000	1,295,513
Anhydrite	15,218	96,215	57,414	99,819	140,643	142,710
Germany (East) (d)	250,000	266,000	250,000	261,000	254,000	255,000
Greece	88,270	92,795	121,925	138,394	n.a.	n.a.
Italy (including alabaster)	2,050,721	2,123,039	2,360,766	2,509,342	n.a.	n.a.
Luxemburg	9,278	8,030	6,639	7,045	7,565	6,000
Poland	461,000	540,000	576,000	r(e) 748,000	(e) 750,000	(e) 750,000
Portugal	70,813	71,118	59,141	63,953	79,650	111,117
Spain—						
Gypsum (b)	2,966,000	3,455,000	4,475,000	3,307,000	n.a.	n.a.
Anhydrite (b)	38,000	46,000	50,000	n.a.	n.a.	n.a.
Switzerland (e)	100,000	100,000	100,000	100,000	100,000	100,000
U.S.S.R.	4,386,000	4,307,000	4,172,000	4,137,000	4,275,000	(e) 4,330,000
Yugoslavia	96,000	116,000	r 136,000	r 153,000	164,000	143,000
Angola	11,316	16,047	13,983	9,890	10,000	(e) 10,000
Egypt	455,048	460,185	446,552	332,120	225,316	450,850
Libya	—	—	—	400	1,836	3,000
Niger	—	—	—	—	1,500	(e) 2,000
South Africa	170,624	188,970	184,504	236,292	299,141	291,857
Sudan	1,561	7,384	4,450	4,000	4,000	2,000
Tunisia	16,000	16,000	18,000	n.a.	n.a.	n.a.
Dominican Republic	402,309	432,466	34,760	107,962	88,085	89,000
Guatemala	12,000	(e) 10,000	14,560	7,000	9,000	12,000
Mexico	765,600	782,000	1,080,000	1,146,654	1,064,660	1,133,000
Nicaragua	—	3,200	2,500	5,500	5,000	9,000
United States	8,482,000	8,901,000	9,275,000	9,539,000	8,960,000	8,613,000
Argentina	188,972	(a) 211,594	(a) 139,334	(a) 148,125	(a) 201,046	252,400
Brazil	153,571	106,372	r 103,952	r 83,072	71,392	78,956
Chile	79,000	(e) 113,000	104,000	117,278	105,466	118,000
Colombia	75,000	82,000	100,000	105,800	110,000	113,000
Paraguay	—	n.a.	n.a.	770	2,200	3,000
Peru	62,700	60,200	51,726	r 49,246	65,425	62,000
Venezuela	(e) 59,000	(e) 62,000	63,449	75,000	89,000	(e) 74,000

(a) Including anhydrite.

(b) Estimated.

(c) Excluding a small production in Rheinland-Pfalz.

(d) Crude estimated on production of calcined

(e) United States Bureau of Mines' estimate.

(f) Producers' shipments.

(g) West Pakistan.

PRODUCTION OF GYPSUM (cont.)

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES (cont.)						
Burma	840	(a) 1,000	(a) 1,000	(a) 1,000	(a) 1,000	(a) 1,000
Formosa	11,746	16,028	26,168	16,824	27,320	8,280
Israel	80,000	75,000	105,000	74,000	90,000	100,000
Japan	713,106	787,517	770,306	738,914	639,000	588,000
Jordan	7,000	9,000	(b) 8,600	n.a.	n.a.	n.a.
Philippine Republic .. .	8,271	14,225	30,209	40,311	27,054	24,000
Saudi Arabia	—	(b) 10,500	(b) 35,000	(b) 30,000	22,242	25,000
Syria	8,000	15,000	(b) 15,000	20,000	(b) 15,000	(b) 15,000
Thailand	11,850	21,000	23,512	41,238	11,063	39,003
Turkey (a)	60,000	140,000	180,000	200,000	220,000	250,000
TOTAL*	39,000,000	41,000,000	44,000,000	45,000,000	44,000,000	44,000,000

*Excluding gypsum known to have been produced in Roumania, Cuba, China and many other countries. Also excluded is production of "Juss" (an impure sandy gypsum) in Iraq.

(a) Estimated.

(b) United States Bureau of Mines' estimate.

EXPORTS OF GYPSUM

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Calcined	12,762	7,516	6,723	7,602	10,570	11,589
Tanzania	280	2,165	1,864	2,910	4,488	1,526
Canada—						
Crude	3,410,129	3,716,962	4,199,212	4,515,404	4,238,070	4,171,891
Jamaica	82,886	256,786	134,492	137,463	192,738	198,000
Cyprus—						
Crude	24,437	35,099	54,279	42,523	41,042	55,650
Calcined	1,830	1,919	1,616	1,670	1,418	1,196
India (b)	—	—	—	5	1	—
Malaysia (West)—						
Crude and calcined ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	228	20
Singapore—						
Crude and calcined ..	<i>n.a.</i>	1,771	476	306	756	1,157
Australia (a)—						
Crude	89,960	94,008	157,375	181,021	166,557	184,450
Calcined	3,388	4,008	351	269	543	617
Irish Republic—						
Crude	82,131	85,262	94,399	98,072	97,463	93,509
OTHER COUNTRIES						
Austria—						
Crude	32,552	38,399	48,157	56,078	57,139	77,665
Calcined	1,266	838	745	998	1,177	804
Belgium-Luxemburg						
E.U.—						
Crude	563	238	617	338	722	299
Calcined	13,095	13,891	13,647	15,261	15,482	13,789
Denmark—						
Crude and calcined ..	19	27	20	7	11	29
France—						
Crude	550,593	553,907	513,583	636,357	649,802	665,445
Calcined	109,120	119,517	124,327	118,063	124,348	129,210
Germany (Federal)—						
Crude and calcined ..	175,975	184,008	187,466	262,879	246,017	354,734
Germany (East)—						
Calcined	37,210	35,251	36,460	49,943	59,771	32,571
Italy—						
Crude	889	422	1,497	2,155	14,841	} 17,114
Calcined	6,929	6,649	7,722	11,007	3,237	
Netherlands—						
Calcined	332	148	167	155	167	100
Poland	<i>n.a.</i>	<i>n.a.</i>	25,343	385,666	480,627	447,000
Portugal—						
Crude	369	146	194	153	130	216
Calcined	57	78	106	107	70	165
Spain—						
Crude and calcined ..	4,552	4,694	4,654	4,433	6,523	3,756
Sweden—						
Calcined	145	109	215	8	—	—
Switzerland—						
Ground and calcined ..	104	62	75	108	68	109
Yugoslavia—						
Crude	—	—	—	15	} 49	157
Ground and calcined ..	216	—	—	—		
Angola—						
Crude	8,286	6,651	2,968	5,592	5,478	5,613
Egypt—						
Crude and ground ..	42,213	} 53,769	51,179	77,752	37,742	52,199
Calcined	11,290					

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

EXPORTS OF GYPSUM (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Morocco—						
Crude	30,490	22,098	16,581	13,178	34,356	<i>n.a.</i>
Calcined	668	922	1,870	11,009	10,885	<i>n.a.</i>
South Africa	22,779	16,429	15,213	16,575	19,507	21,293
Dominican Republic ..	374,802	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Mexico—						
Crude	700,667	628,768	1,043,436	1,118,913	1,058,873	964,142
Calcined	5	6	6	13	80	22
United States—						
Crude and calcined ..	17,744	17,531	15,000	18,468	25,340	34,045
Argentina	945	3,899	8,237	9,122	13,922	17,945
Bolivia	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	687	467	1,929
Venezuela	—	1	5,571	3,423	1,183	2,166
Iran (a)—						
Crude	486	907	4,002	2,519	46	—
Calcined	2,203	3,187				
Japan—						
Crude	87	4,704	6,978	6,526	6,439	6,438
Calcined	272	589	405	365	780	7,266
Syria	5,764	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	8,319	25,920

(a) Years ended March 20 following that stated.

IMPORTS OF GYPSUM

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Crude, including						
alabaster	146,319	131,579	} 139,864	154,481	156,212	147,010
Calcined	1,072	1,251				
Ghana	—	—	3	25	4,577	2,520
Malawi	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	675	1,357	<i>n.a.</i>
Nigeria—						
Crude	21,384	33,539	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Rhodesia (c)—						
Crude and calcined ..	23,469	19,044	15,130	9,252	7,707	<i>n.a.</i>
Zambia	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	7,617	9,250	16,044
Bermuda—						
Calcined	517	396	828	601	306	325
Canada—						
Crude and ground ..	59,000	62,453	66,632	72,309	67,351	} 76,708
Calcined	8,545	6,296	7,484	3,712	4,216	
Hong Kong	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	9,870	9,832	17,766
India (a)—						
Crude	287	32,418	41,627	98,872	} 15,434	8
Calcined	115	10	10	14		
Malaysia (West)—						
Crude and calcined ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	18,026	25,671
Singapore—						
Crude and calcined ..	<i>n.a.</i>	6,555	9,283	18,747	15,064	17,895
New Zealand—						
Crude	76,524	85,800	(b) 89,014	(b) 87,234	(b) 104,419	(b) 108,186
Calcined	16,566	4,103	(b) 1,696	(b) 2,362	(b) 1,858	(b) 1,650
OTHER COUNTRIES						
Austria—						
Crude	9,234	14,301	179	3,876	7,298	11,620
Calcined	3,523	3,456	4,409	3,736	42	7,546
Belgium-Luxemburg						
E. U.—						
Crude	303,534	305,245	305,399	372,748	375,278	388,658
Calcined	40,683	43,649	45,797	50,469	58,151	53,357
Denmark—						
Crude	56,765	59,038	50,029	77,806	92,621	89,038
Calcined	5,797	6,289	6,332	6,739	6,423	5,069
Finland—						
Crude	68,664	59,135	79,206	76,309	85,367	69,425
Calcined	37,494	36,702	41,658	43,947	45,463	38,041
France—						
Crude	15,503	18,006	13,478	17,479	17,644	18,234
Calcined	2,511	2,490	3,383	2,595	4,115	4,496
Germany (Federal)—						
Crude and calcined ..	58,563	64,668	72,813	78,809	76,482	98,229
Greece—						
Crude	39	37	41	44	51	<i>n.a.</i>
Calcined	129	174	r 221	197	318	333
Iceland	4,549	900	4,529	9,625	4,105	2,970
Italy—						
Crude	46	r 20	66	45	635	} 1,049
Calcined	544	r 361	481	561	65	
Netherlands—						
Crude	84,084	89,903	99,870	185,512	140,610	231,693
Calcined	45,705	48,213	50,983	57,468	59,993	62,909
Norway—						
Crude	53,584	49,252	52,056	41,608	54,657	72,172
Calcined	4,000	4,461	4,408	4,926	5,142	4,294
Portugal—						
Crude	10,146	12,598	11,161	15,380	14,009	15,379
Calcined	14	5	9	17	10	7

(a) Years ended March 31 following that stated.

(b) Year ended June 30 of that stated.

(c) Figures for years 1961 to 1963 relate to Rhodesia and Nyasaland.

IMPORTS OF GYPSUM (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Sweden—						
Crude	184,334	242,181	204,283	307,065	368,307	333,235
Calcined	21,716	23,054	23,774	23,532	23,654	22,927
Switzerland—						
Crude	14,954	16,628	21,424	27,740	33,408	50,678
Ground and calcined	8,153	5,593	4,441	3,980	5,533	4,541
Angola—						
Crude and calcined	258	185	87	91	131	215
Malagasy Republic	1,634	1,125	2,159	1,228	2,120	2,342
Morocco	12	48	—	—	—	—
Mozambique—						
Crude	8,729	6,950	5,609	4,502	5,694	8,319
Calcined	182	128	201	94	83	88
South Africa—						
Crude and calcined	2,040	2,397	2,562	3,167	3,451	4,600
Sudan	194	201	395	260	193	672
Tunisia—						
Calcined	272	290	207	541	300	<i>n.a.</i>
Costa Rica	116	155	160	460	3,910	3,287
Honduras—						
Calcined	58	2	16	16	19	28
Mexico—						
Crude	1	88	75	43	121	41
Panama Republic	6,053	5,855	6,290	5,999	<i>n.a.</i>	<i>n.a.</i>
Salvador—						
Crude	1,445	1,382	998	984	2,743	1,991
Calcined	41	35	49	46	61	66
United States—						
Crude	4,434,876	4,840,068	4,902,052	5,587,234	5,277,909	4,892,000
Ground and calcined	1,006	1,589	202	1,218	1,366	2,000
Argentina—						
Crude	146	22	47	27	28	1
Brazil—						
Crude	23	31	39	916	841	2,014
Colombia—						
Crude	2,491	3,467	1	7,876	10,015	3,779
Calcined	504	586	463	596	196	709
Peru—						
Crude and calcined	168	69	23	148	104	<i>n.a.</i>
Uruguay—						
Crude and ground	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	12,482	18,929
Venezuela	85	37	57	86	81	124
Formosa	24,822	35,423	22,263	58,669	44,488	71,445
Indonesia—						
Crude	9,897	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Calcined	205	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Iran (a)	103	40	65	144	220	129
Israel—						
Crude	10	—	—	—	—	—
Calcined	120	46	70	49	111	172
Japan	53,745	78,411	106,601	89,551	49,537	48,308
Korea (South)	20,862	21,744	29,499	45,472	40,951	70,327
Lebanon	18,197	30,988	37,468	34,283	31,114	23,602
Philippine Republic—						
Crude	35,031	39,225	19,790	27,145	25,525	<i>n.a.</i>
Calcined						
Thailand—						
Crude	196	30	89	102	157	147
Vietnam (South)	780	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

(a) Years ended March 20 of year following that stated.

IODINE
PRODUCTION OF IODINE

Lb. avdp.

Producing Country	1961	1962	1963	1964	1965	1966
Italy	27,661	23,953	7,209	—	—	—
Chile	5,404,881	4,826,785	4,757,112	4,763,265	5,027,000	6,462,000
Indonesia	6,931	<i>n.a.</i>	9,642	8,900	4,000	3,913
Japan	2,469,152	3,106,000	3,117,870	4,464,000	4,841,000	5,792,000

Iodine is also produced in the U.S.S.R. and the United States.

EXPORTS OF IODINE

Lb. avdp.

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom ..	47,634	45,780	36,053	54,215	54,718	76,932
OTHER COUNTRIES						
Belgium-Luxemburg E.U.—						
Crude	19,600	700	16,535	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Resublimed	51,100	65,900	65,036	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
France—						
Resublimed	9,900	7,000	15,400	16,400	24,300	13,000
Germany (Federal)	57,100	43,700	38,140	25,353	100,972	14,000
Netherlands—						
Crude	<i>n.a.</i>	7,000	2,205	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Resublimed	18,000	4,000	4,409	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Chile	5,021,193	5,021,741	3,875,649	4,211,000	3,860,000	5,380,600
Japan—						
Crude	1,538,002	} 1,925,766	2,486,664	2,930,236	3,077,390	5,215,078
Resublimed	31,700					

IMPORTS OF IODINE

Lb. avdp.

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom ..	987,422	1,167,163	813,775	939,502	1,174,108	1,242,474
Canada—						
Crude	243,935	150,558	240,292	178,800	228,900	213,400
India (a)	163,925	224,673	143,029	220,498	349,413	297,370
Australia (b)—						
Crude	10,000	6,700	4,900	200	7,728	19,600
New Zealand	<i>n.a.</i>	<i>n.a.</i>	(b) 1,350	(b) 1,455	(b) 3,593	<i>n.a.</i>
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Crude	147,300	179,700	257,941	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Resublimed	400	700	1,323	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Denmark	2,000	7,000	2,205	4,409	22,000	22,000
France—						
Crude	325,800	313,000	354,944	630,522	881,849	1,113,000
Germany (Federal) ..	618,400	701,500	690,047	644,411	953,279	915,400
Greece	7,103	7,663	4,850	9,004	7,822	7,562
Italy—						
Crude	r 53,588	# 62,563	79,587	r 284,760	91,500	303,100
Resublimed	r 22,353	r 45,768	64,816	r 3,047	900	10,582
Netherlands	<i>n.a.</i>	13,440	15,432	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Portugal—						
Crude	3,500	4,900	4,630	—	9,000	8,818
Resublimed	2,600	1,500	3,968	2,866	2,000	5,732
Spain—						
Crude	12,857	41,910	31,526	52,933	37,479	110,231
Resublimed	664	1,764	5,320	79	59	919
Sweden	13,000	7,000	11,000	4,000	9,000	7,000
Yugoslavia	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	12,352	24,978
Morocco—						
Resublimed	1,393	648	712	847	53	<i>n.a.</i>
Costa Rica	333	791	351	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Mexico	15,130	21,905	25,554	81,847	45,746	78,207
United States—						
Crude	3,016,641	3,025,711	3,336,000	2,592,000	2,847,133	7,133,000
Resublimed	220	9,050	3,000	3,000	2,000	<i>n.a.</i>
Argentina—						
Crude	59,470	48,596	33,116	113,016	90,423	52,408
Resublimed	16,431	12,337	14,826	12,547	15,503	66
Brazil	23,041	35,784	23,343	24,959	36,100	49,364
Colombia	4,048	4,786	6,788	4,676	2,599	5,031
Peru—						
Crude	1,552	1,387	115	1,618	1,570	<i>n.a.</i>
Resublimed	2,363	1,204	1,556	2,928	2,100	<i>n.a.</i>
Venezuela	6,028	6,065	9,841	7,328	11,391	6,515
Turkey	4,160	6,206	6,640	5,844	9,504	10,926

(a) Years ended March 31 following that stated.

(b) Years ended June 30 of that stated.

**IRON AND STEEL
PRODUCTION OF IRON ORE*
(Including Manganiferous Iron Ore)**

Long tons

Producing Country	ORE										Estimated Iron Content				
	1961	1962	1963	1964	1965	1966	1961	1962	1963	1964	1965	1966			
COMMONWEALTH COUNTRIES															
United Kingdom (a)	16,518,000	15,277,100	14,912,000	16,325,700	15,414,700	13,657,900	4,460,000	4,125,000	4,026,000	4,408,000	4,162,000	3,688,000			
Rhodesia	381,868	608,845	645,025	810,981	n.a.	n.a.	225,000	359,000	381,000	478,000	n.a.	n.a.			
Sierra Leone (f)	1,757,853	1,983,025	1,953,651	1,980,535	2,296,983	2,182,792	1,133,000	1,281,000	1,260,000	1,276,000	1,475,000	1,410,000			
Swaziland	...	...	...	59,242	1,003,848	1,566,091	37,000	...	...	37,000	632,000	987,000
Canada	18,177,681	24,428,282	26,913,972	34,219,484	35,677,621	36,331,003	9,998,000	13,436,000	14,803,000	18,821,000	19,623,000	19,982,000			
Hong Kong	117,364	111,537	111,865	114,374	131,955	134,785	66,000	62,000	63,000	64,000	74,000	75,000			
India	12,115,393	13,128,006	14,758,570	15,069,580	23,363,000	19,620,000	7,390,000	8,010,000	9,000,000	9,190,000	14,000,000	11,970,000			
Goa	6,294,000	6,033,000	5,422,000	5,956,000	6,480,000	6,480,000	3,145,000	3,499,000	3,145,000	3,654,000	3,849,000	3,760,000			
Malaysia (West)	6,733,520	6,507,302	7,264,543	6,465,695	6,872,711	5,762,440	3,771,000	3,644,000	4,068,000	3,621,000	3,849,000	3,227,000			
Pakistan (e)	4,004	23,000	67	4,824	23,000	5,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.			
Australia	5,342,041	4,843,494	5,514,562	5,668,518	6,695,269	11,424,830	3,434,000	3,119,000	3,558,000	3,655,000	4,297,000	7,251,000			
Fiji	10,280	6,229	1,062	2,550	2,236	2,624	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.			
New Zealand (b)	1,745	1,501	3,074	2,550	2,236	2,624	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.			
TOTAL	67,454,000	72,928,000	77,500,000	86,677,000	92,000,000	98,000,000	98,000,000	92,000,000	92,000,000	92,000,000	92,000,000	92,000,000			
OTHER COUNTRIES															
Albania	352,000	420,000	255,000	345,000	(h) 360,000	(h) 360,000	1,136,000	n.a.	n.a.	n.a.	n.a.	n.a.			
Austria	3,634,379	3,692,152	3,675,420	3,506,826	3,480,400	3,420,460	40,000	28,000	33,000	21,000	32,000	1,081,000			
Belgium	113,400	79,100	94,000	60,000	90,000	122,000	400,000	390,000	400,000	440,000	1,100,000	1,600,000			
Bulgaria	411,000	625,000	645,000	710,000	1,776,000	2,567,000	255,000	970,000	1,010,000	840,000	1,700,000	660,000			
Czechoslovakia	3,242,000	3,422,000	3,357,000	2,801,000	2,407,000	2,202,000	970,000	1,030,000	1,010,000	840,000	720,000	660,000			
Finland (c)	275,782	299,034	357,942	469,000	670,000	646,000	179,000	194,000	223,000	305,000	440,000	420,000			
France	65,254,359	65,254,080	56,977,556	59,975,576	58,591,587	54,189,000	19,492,000	19,369,000	17,124,000	18,148,000	17,812,000	16,844,000			
Germany—															
Federal Republic (e)	12,878,578	11,250,510	8,454,152	8,559,334	7,827,626	7,083,399	4,353,000	3,838,000	3,074,000	2,752,000	2,512,000	2,265,000			
Eastern	1,617,000	1,616,000	1,635,000	1,608,000	1,604,000	1,694,000	485,000	485,000	491,000	482,000	481,000	508,000			
Greece	287,182	208,442	34,479	59,000	59,000	15,000	147,000	107,000	18,000	30,000	30,000	8,000			
Hungary	595,035	670,738	721,044	721,044	750,000	771,843	613,000	573,000	510,000	185,000	184,000	180,000			
Italy	1,215,995	1,132,671	1,007,937	861,809	772,152	771,843	2,000,000	1,741,000	1,868,000	1,832,000	1,760,000	1,805,000			
Luxembourg	7,340,152	6,404,404	6,879,912	6,574,181	6,215,706	6,424,519	2,411,839	2,000,000	1,868,000	1,832,000	1,760,000	1,805,000			
Norway	1,643,480	1,906,913	1,966,992	2,089,812	2,425,555	2,411,839	1,044,000	1,218,000	1,268,000	1,348,000	1,572,000	1,562,000			
Poland	2,348,000	2,398,000	2,568,000	2,638,000	2,816,000	3,005,000	800,000	820,000	870,000	900,000	960,000	1,020,000			
Portugal	245,000	258,000	258,000	212,000	208,000	189,000	123,000	129,000	129,000	106,000	102,000	92,000			
Roumania	1,709,659	1,714,107	2,250,000	1,901,000	2,440,000	2,639,000	770,000	770,000	1,010,000	850,000	1,100,000	1,190,000			
Spain	5,967,595	5,669,812	5,111,433	5,026,800	5,696,767	5,118,000	2,803,000	2,812,000	2,518,000	2,489,000	2,820,000	2,500,000			
Sweden	23,220,408	22,170,364	23,263,601	26,198,490	28,890,053	27,547,100	14,046,000	13,509,000	14,208,000	16,036,000	17,760,000	17,000,000			
Switzerland (d)	85,000	103,000	94,000	98,000	111,000	65,000	30,000	40,000	40,000	40,000	40,000	25,000			
U.S.S.R.	115,775,000	126,079,000	135,304,000	143,285,000	151,000,000	157,600,000	69,500,000	75,600,000	81,200,000	86,000,000	91,000,000	95,000,000			

* For detailed figures see page 149.
 (a) In addition bog ore and iron ore (not used for smelting) are produced.
 (b) Used mainly or entirely for purposes other than iron production.
 (c) Concentrates.
 (d) Estimated.
 (e) Marketable production.
 (f) Exports.
 (g) West Pakistan.
 (h) United States Bureau of Mines' estimate

PRODUCTION OF IRON ORE (cont.)

Long tons

Producing Country	ORE										Estimated Iron Content		
	1961	1962	1963	1964	1965	1966	1961	1962	1963	1964	1965	1966	
OTHER COUNTRIES (cont.)													
Yugoslavia	2,150,000	2,155,000	2,261,000	2,271,000	2,454,000	2,454,000	970,000	970,000	1,000,000	1,000,000	1,100,000	1,100,000	
Algeria	2,521,043	2,020,000	1,845,000	2,685,000	3,083,000	1,857,000	1,524,000	1,092,000	1,450,000	1,570,000	1,460,000	790,000	
Angola	792,311	741,710	426,620	883,184	902,331	477,062	520,000	480,000	580,000	520,000	510,000	510,000	
Egypt	415,476	453,711	481,176	440,150	440,002	433,083	267,000	345,000	310,000	450,000	370,000	370,000	
Cuba	533,000	689,000	652,000	789,000	743,000	600,000	884,000	2,544,000	3,180,000	4,322,000	10,229,000	11,077,000	
Guinea (b)	2,701,629	3,741,059	6,255,687	12,023,388	15,086,547	16,040,151	1,894,000	2,544,000	3,280,000	4,322,000	4,588,000	4,588,000	
Mauritania	1,200,000	984,000	1,030,000	5,000,000	6,182,000	7,044,000	814,000	646,000	1,683,000	1,683,000	1,518,000	1,518,000	
Morocco	1,438,629	1,130,708	1,018,240	873,000	956,007	1,000,654	815,000	956,000	2,950,000	2,950,000	3,370,000	3,370,000	
South Africa (b)	4,108,125	4,559,476	4,910,289	5,598,352	6,616,761	7,368,761	2,460,000	2,720,000	2,950,000	3,300,000	3,300,000	4,540,000	
Sudan	4,800	4,400	14,752	9,351	32,312	32,312	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	
Tunisia	865,000	742,000	851,000	925,000	1,098,000	1,287,000	470,000	400,000	460,000	500,000	590,000	680,000	
Guatemala (c)	5,000	3,000	6,000	7,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	
Mexico	1,130,000	2,220,000	2,290,000	2,280,000	2,610,000	2,460,000	676,150	1,332,243	1,374,820	1,370,475	1,567,581	1,474,254	
United States (c)	71,425,000	71,959,000	73,737,000	84,864,000	87,472,000	90,151,000	39,000,000	39,000,000	41,000,000	48,000,000	50,000,000	52,000,000	
Argentina	156,824	119,133	92,916	83,008	111,109	132,000	59,000	60,000	46,000	56,000	56,000	56,000	
Brazil	10,059,063	10,567,268	11,041,748	16,694,380	17,873,111	22,887,115	7,040,000	7,400,000	7,730,000	11,690,000	12,510,000	16,020,000	
Chile	6,876,619	7,962,415	8,375,886	9,731,795	11,953,664	12,018,781	4,355,692	5,078,125	5,594,219	6,260,747	7,698,000	7,740,000	
Colombia	865,716	670,000	684,000	700,000	694,000	649,424	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	
Peru	8,598,746	5,854,981	8,267,202	8,593,913	10,134,020	7,664,000	4,648,000	3,591,000	4,897,000	5,204,000	5,914,000	4,440,000	
Uruguay	14,335,595	13,056,364	11,561,612	15,397,909	17,571,581	17,559,212	9,175,000	8,356,000	7,399,000	9,855,000	11,118,000	11,238,000	
Venezuela	—	9,017	1,000	2,000	4,192	n.d.	n.d.	n.d.	2,000	2,000	3,000	n.d.	
Burma (c)	45,000,000	35,000,000	50,000,000	50,000,000	50,000,000	50,000,000	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	
China (a)	41,000	10,000	21,000	20,000	59,000	60,000	20,000	5,000	10,000	10,000	30,000	30,000	
Iran (f)	2,825,554	2,545,935	2,386,916	2,516,975	2,469,000	2,537,000	1,569,000	1,419,000	1,542,000	1,400,000	1,500,000	1,500,000	
Japan (g)	481,200	463,300	482,800	674,000	723,500	777,200	245,000	236,000	251,000	344,000	369,000	396,000	
Korea (South)	3,494,000	3,287,000	3,799,000	4,700,000	5,800,000	6,000,000	696,000	792,000	790,000	820,000	840,000	840,000	
Korea (North)	1,152,061	1,365,054	1,362,833	1,345,369	1,413,070	1,465,292	34,000	28,000	10,000	120,000	460,000	460,000	
Philippine Republic	54,912	44,592	15,493	188,000	736,656	1,486,776	64,000	100,000	10,000	180,000	280,000	280,000	
Thailand	745,671	800,000	734,800	960,248	1,508,000	1,589,000	420,000	450,000	410,000	540,000	840,000	890,000	
Turkey	273,000	298,300	284,200	302,500	274,800	216,800	146,000	164,000	164,000	151,000	151,000	119,000	
New Caledonia...	—	—	—	—	—	—	—	—	—	—	—	—	
TOTAL	432,000,000	429,000,000	451,000,000	498,000,000	527,000,000	534,000,000	498,000,000	527,000,000	534,000,000	534,000,000	534,000,000	534,000,000	
World's Total	499,000,000	502,000,000	528,000,000	585,000,000	619,000,000	632,000,000	585,000,000	619,000,000	632,000,000	632,000,000	632,000,000	632,000,000	

Iron ore is also produced in Cuba, the Lebanon and North Vietnam.

(a) Estimated iron (b) Burma (c) Usable ore.

(d) Including iron (e) Estimated iron (f) Usable ore.

(g) 1961—1,685,131; 1962—1,419,738; 1963—1,274,743; 1964—1,402,809; 1965—1,369,000; 1966—1,239,000.

(h) Used mainly for purposes other than iron production.

(i) United States Bureau of Mines estimate.

(j) Year ended March 31 following that stated.

(k) Including by-product magnetite as follows (long tons): 1961—209,712; 1962—276,547; 1963—521,261; 1964—845,451; 1965—892,513; 1966—878,220.

DETAILS OF PRODUCTION OF IRON ORE IN CERTAIN COUNTRIES

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Hematite	414,000	378,200	393,900	427,100	408,200	397,900
Jurassic ironstones—						
Lower lias	5,547,800	5,516,000	5,268,900	5,440,900	5,065,300	4,754,300
Middle lias	2,061,000	1,507,700	1,392,000	1,590,000	1,456,500	1,061,000
Inferior oolite	8,495,200	7,875,200	7,857,200	8,867,700	8,484,700	7,444,700
Sierra Leone (c)—						
Lump	40	—	—	—	—	—
Concentrates	1,625,703	1,875,822	1,814,687	1,827,018	2,054,882	2,076,522
Fines	131,095	106,696	138,189	153,298	241,930	105,131
Ferromax	1,015	507	775	219	171	1,139
OTHER COUNTRIES						
France—						
Phosphoric	61,415,340	61,436,403	53,518,180	56,547,534	55,238,426	50,868,000
Medium phosphoric	3,845,260	3,624,684	3,378,933	3,346,263	3,274,033	3,263,000
Non-phosphoric	293,759	192,993	80,443	81,779	79,128	58,000
Luxemburg—						
Siliceous iron ore	3,361,895	3,081,546	3,343,640	3,419,260	3,001,948	2,965,075
Calcareous iron ore	3,584,754	2,883,330	3,103,315	2,787,177	2,901,279	3,151,375
Ferruginous limestone	393,503	439,528	432,957	367,744	312,479	308,069
Portugal—						
Hematite	105,000	69,000	58,000	42,000	52,000	51,000
Magnetite	125,000	160,000	162,000	128,000	110,000	86,000
Limonite	2,000	—	—	—	—	—
Manganiferous iron ore	13,000	29,000	38,000	42,000	46,000	52,000
Sweden—						
Manganiferous iron ore	75,000	138,000	181,000	133,000	133,000	n.a.
Other iron ore	23,145,000	22,032,000	23,083,000	26,066,000	28,757,000	n.a.
By phosphorus content (a)						
Under 0.006%	1,365,794	1,491,971	1,454,568	1,358,059	1,404,705	n.a.
0.006% to under 0.04%	2,953,101	2,302,191	2,647,784	3,306,509	3,622,682	n.a.
0.04% to under 0.1%	1,030,981	1,607,100	1,244,866	1,426,243	2,371,340	n.a.
0.1% to under 0.7%	7,322,106	6,020,284	6,313,641	6,674,363	7,946,280	n.a.
0.7% to under 1%	1,445,544	1,395,855	1,482,344	2,045,676	2,447,422	n.a.
1% and over	9,102,882	9,352,963	10,120,398	11,387,640	11,097,624	n.a.
United States—						
Ore containing less than 5% Mn—						
Hematite (b)	50,883,000	46,863,000	46,509,000	47,603,000	47,043,000	46,602,000
Magnetite (b)	18,295,000	20,788,000	23,891,000	34,395,000	36,927,000	39,841,000
Limonite	1,473,000	3,599,000	2,443,000	1,806,000	2,664,000	2,913,000
Pyrite cinder and sinter	678,000	579,000	757,000	1,032,000	805,000	791,000
Ore containing 5 to under 10% Mn	95,855	129,979	136,569	27,725	32,935	4,035

(a) Calculated on a basis of 50% Fe content.

(b) A small quantity of hematite is included with magnetite, and a small quantity of magnetite with hematite.

(c) Exports.

EXPORTS OF IRON ORE
(including Manganiferous Iron Ore)

Long tons

Exporting Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom	555	364	482	403	273	217
Rhodesia (d)	14,506	118,557	207,239	282,045	316,270	n.a.
Sierra Leone	1,757,853	1,983,025	1,953,651	1,980,535	2,296,983	2,182,792
Canada	14,868,166	21,645,758	23,854,973	30,473,700	30,799,252	30,693,745
Hong Kong	127,390	114,652	119,826	129,569	142,948	138,566
India (b)	3,313,077	3,737,436	9,712,220	10,407,378	12,075,253	13,191,038
Goa	6,425,000	5,195,255				
Malaysia (West)	6,425,552	6,441,107	6,581,755	6,316,970	6,634,197	5,680,684
Australia (e)—						
Iron ore	46	110	113	12,201	96,651	337,856
Burnt pyrites	508,546	171,661	118,337	106,715	73,912	70,070
Fiji	8,906	7,339	1,227	—	—	—
<hr/>						
Irish Republic—						
Burnt pyrites	17,366	12,576	1,639	6,067	1,610	1,259
<hr/>						
OTHER COUNTRIES						
Albania—						
Iron ore	410,100	410,700	78,900	454,600	497,000	n.a.
Austria						
Iron ore	9,862	30	39	63	39	120
Belgium-Luxemburg						
E.U.—						
Iron ore	186,897	232,968	271,060	222,103	66,334	22,083
Burnt pyrites	233,943	199,509	210,810	184,691	195,922	206,658
Bulgaria						
Iron ore	11,989	27,511	14,096	10,651	10,441	n.a.
Denmark—						
Bog ore (a)	56,022	67,689	50,169	56,862	35,530	25,756
Burnt pyrites	94,727	93,310	84,442	101,999	93,503	86,790
Finland—						
Iron ore	219,331	171,626	85,674	167,236	17,019	3,297
Burnt pyrites	204,172	169,218	163,855	122,807	105,868	68,902
France—						
Iron ore	25,446,172	25,277,522	20,869,283	21,741,834	20,419,735	17,907,510
Burnt pyrites	395,713	355,744	338,289	286,846	238,875	298,446
Germany (Federal)—						
Iron ore	253,621	277,833	281,577	285,072	274,323	295,609
Burnt pyrites	4,968	4,436	2,566	14,259	37,372	60,747
Greece—						
Iron ore	270,466	243,811	r 50,089	n.a.	4,409	n.a.
Burnt pyrites	41,653	24,357	42,488	n.a.	24,641	n.a.
Italy—						
Iron ore	25,813	238	43	r 6,427	36,437	19,043
Burnt pyrites	664,308	r 603,338	645,669	r 657,388	631,391	740,234
Netherlands—						
Iron ore	9,366	11,070	6,652	3,070	6,587	3,837
Burnt iron pyrites	225,388	120,076	125,148	244,879	254,159	187,327
Norway—						
Iron ore	1,119,787	1,248,534	1,203,570	1,527,988	1,351,992	1,414,106
Burnt pyrites	70,550	78,067	63,374	74,896	69,499	66,781
Portugal—						
Iron ore	93,540	97,937	71,771	36,277	2,731	—
Burnt pyrites	102,675	28,909	15,403	22,775	3,986	335
Spain (c)						
Iron ore	2,822,961	1,873,512	1,904,347	2,414,014	1,854,492	957,471
Sweden—						
Iron ore	19,930,000	19,090,000	19,936,000	23,973,000	24,075,000	23,935,000
Burnt pyrites	178,000	197,000	227,000	341,000	417,000	254,000
Switzerland (c)						
Iron ore	60,314	74,253	88,509	62,634	95,304	31,152

(a) Used for purposes other than iron making.

(b) Years ended March 31 following that stated.

(c) Including burnt pyrites.

(d) Figures for years 1961 to 1963 relate to Rhodesia and Nyasaland.

(e) Years ended June 30 of that stated.

EXPORTS OF IRON ORE (cont.)

Long tons

Exporting Country	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
U.S.S.R.—						
Iron ore.. ..	16,025,800	18,636,000	20,460,700	22,243,000	23,757,000	25,706,000
Burnt pyrites	870,038	768,665	999,954	927,122	1,213,000	1,478,000
Yugoslavia—						
Iron ore.. ..	121,753	100,334	151,547	198,169	97,231	<i>n.a.</i>
Burnt pyrites	—	—	—	1,037	2,358	<i>n.a.</i>
Algeria—						
Iron ore	2,736,684	2,097,344	1,928,060	2,783,645	2,945,431	1,391,100
Burnt pyrites	31,953	34,144	32,381	31,642	35,313	<i>n.a.</i>
Angola	486,678	438,944	645,183	1,109,740	682,450	616,893
Guinea	509,959	685,000	551,000	<i>n.a.</i>	<i>n.a.</i>	333,000
Liberia	2,791,829	3,741,059	6,355,687	12,029,388	15,086,547	16,290,151
Mauritania	<i>n.a.</i>	<i>n.a.</i>	128,000	4,900,000	5,871,000	7,044,260
Morocco—						
Iron ore	1,879,282	1,130,303	1,061,784	977,997	942,141	823,584
Burnt pyrites	17,423	23,241	19,547	25,738	13,860	<i>n.a.</i>
South Africa	558,135	732,216	679,779	1,116,077	1,220,301	1,287,963
Sudan	—	—	—	—	34,023	46,941
Tunisia	885,158	702,301	755,771	817,634	895,842	1,057,971
Dominican Republic	12	—	—	5,567	—	<i>n.a.</i>
Mexico	120,829	144,733	1,095	21,148	9,757	118
United States	4,916,173	5,897,667	6,812,793	6,963,375	7,084,682	7,778,916
Brazil	6,182,424	7,529,034	8,137,174	9,575,964	12,530,156	12,706,562
Chile	6,099,440	7,131,117	6,979,980	8,970,565	10,555,000	10,559,486
Peru	5,484,569	5,067,878	5,657,870	5,122,981	6,274,264	<i>n.a.</i>
Venezuela	14,334,747	13,075,372	12,124,597	14,658,189	16,737,405	16,767,674
Iran (a)	21,208	4,823	1,968	5,234	—	—
Korea (South)	436,809	358,245	540,966	577,629	697,675	631,229
Philippine Republic—						
Iron ore.. ..	1,289,210	1,313,820	1,442,499	1,324,083	1,367,091	1,489,319
Burnt pyrites	7,578	11,220	8,169	3,740	8,651	<i>n.a.</i>
Turkey	250,210	168,930	11,909	—	—	—
New Caledonia	253,322	289,779	289,502	308,397	271,501	210,621

(a) Years ended March 20 following that stated.

IMPORTS OF IRON ORE
(including Manganiferous Iron Ore)

Long tons

Importing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Iron ore	14,965,971	12,897,165	13,940,164	18,000,505	18,299,984	15,542,087
Burnt pyrites .. .. .							383,248	597,774	556,972	400,501
Kenya	2,417	2,781	1,355	2,511	5,598	6,642
Canada	4,132,280	4,604,779	5,325,713	5,232,404	4,763,029	4,323,121
Hong Kong	3,724	4,270	12,250	1,545	9,838	12,100
India (d)	1,218	270	100	150	—	118
Singapore	9,500	6	40	—	—	16,081
Australia (a)	277,299	273,481	293,467	274,241	277,496	283,761
Irish Republic	20	15	202	267	1,242	713
OTHER COUNTRIES						
Austria—						
Iron ore	1,276,474	1,028,169	972,994	1,089,893	1,101,776	1,156,800
Burnt pyrites	423,255	371,504	356,078	368,068	355,247	340,519
Belgium-Luxemburg E.U.—						
Iron ore	20,214,909	20,810,570	19,409,036	22,535,724	23,369,882	21,068,540
Burnt pyrites	111,275	58,059	43,483	113,197	151,382	142,590
Czechoslovakia	7,844,000	8,188,000	9,186,000	9,162,000	9,402,000	9,189,000
Denmark	3,411	1,422	(b) 2,053	(b) 2,048	(b) 7,950	(b) 12,000
Finland	142,947	441,585	377,101	505,459	953,519	824,090
France—						
Iron ore	1,671,789	1,866,118	3,423,086	3,545,327	3,846,865	4,178,100
Burnt pyrites	14,504	18,668	26,865	38,921	75,536	57,794
Germany (Federal)—						
Iron ore	32,112,290	28,609,917	26,573,630	34,470,471	34,911,085	30,774,166
Burnt pyrites	2,441,821	1,834,503	1,885,295	1,918,140	1,858,488	1,715,370
Germany (East) (c)						
	1,078,000	1,240,500	1,312,400	1,382,500	1,429,500	1,433,200
Greece						
	n.a.	n.a.	119,215	228,793	456,115	398,815
Hungary	2,001,905	2,207,495	2,314,180	2,619,766	2,442,000	2,653,000
Italy	3,290,259	4,354,281	5,144,832	4,959,134	7,886,661	8,032,473
Netherlands	2,219,398	2,280,542	2,501,403	3,011,856	3,519,462	3,396,862
Norway	13,486	21,163	10,870	19,635	17,105	8,522
Poland	7,548,400	7,976,000	8,666,900	8,943,200	9,127,000	9,280,000
Roumania	1,238,300	1,897,300	2,201,200	2,268,700	2,581,800	2,809,000
Spain	210,918	248,866	91,701	92,823	347,287	566,425
Sweden—						
Iron Ore	4,000	3,000	2,000	72,000	169,000	211,000
Burnt pyrites	18,700	19,684	15,000	10,000	20,000	6,000
Switzerland (b)						
	7,738	1,309	3,669	1,958	2,562	7,126
Yugoslavia	379,735	347,565	424,751	375,248	358,162	386,898
Morocco	—	—	806	24,605	442	n.a.
United States—						
Iron ore	25,804,749	33,431,077	33,262,892	42,408,092	45,103,418	46,259,167
Burnt pyrites	3,504	4,248	3,263	8,635	1,563	
Argentina	312,389	506,912	745,428	1,003,020	1,032,519	695,738
Formosa	71,539	10,287	43,020	76,277	30,612	104,957
Japan—						
Iron ore	20,693,941	21,947,378	25,661,157	30,678,093	38,370,349	45,361,775
Burnt pyrites	209,897	143,461	191,905	64,820	31,538	5,149

(a) Years ended June 30 of that stated.

(d) Years ended March 31 following that stated.

(b) Including burnt pyrites.

(c) Fe content.

PRODUCTION OF PIG-IRON AND FERRO-ALLOYS*

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom	14,747,100	13,692,100	14,591,400	17,273,600	17,459,900	15,709,700
Rhodesia	216,300	237,600	232,262	312,706	246,000	256,000
Canada	4,521,448	4,838,000	5,433,000	r 5,994,000	6,470,038	6,607,515
India	5,020,000	5,830,000	6,630,000	6,630,000	7,030,000	7,130,000
Australia (e)	3,156,411	3,434,336	3,629,771	r 3,930,107	4,183,678	4,666,885
TOTAL	27,661,000	28,032,000	30,520,000	r34,140,000	35,390,000	34,370,000
OTHER COUNTRIES						
Austria	2,232,300	2,088,000	2,076,600	2,174,200	2,170,400	2,164,700
Belgium	6,351,962	6,633,876	r 6,789,554	7,919,500	8,233,933	8,099,687
Bulgaria	202,868	219,459	261,135	450,000	684,000	855,000
Czechoslovakia	4,892,000	5,095,000	5,171,000	5,627,000	5,776,000	6,170,000
Finland	149,625	325,771	326,692	583,000	921,000	919,000
France (a)	14,336,328	13,738,471	14,080,508	15,612,174	15,520,937	15,343,969
Germany—						
Federal Republic	25,174,000	23,977,000	22,652,000	26,882,000	26,706,000	25,158,000
Eastern	1,998,800	2,042,400	2,115,900	2,224,200	2,301,100	2,409,000
Hungary	1,299,065	1,378,278	1,379,266	1,476,414	1,564,000	1,614,000
Italy	3,150,883	3,619,510	3,806,758	r 3,567,441	5,542,296	6,315,450
Luxemburg	3,773,177	3,540,045	3,530,158	4,124,824	4,079,129	3,899,902
Netherlands	1,433,300	1,546,500	1,681,400	1,916,200	2,327,000	2,173,900
Norway	744,704	711,716	737,028	879,469	1,072,950	1,121,240
Poland	4,695,000	5,227,000	5,310,000	5,554,000	5,669,000	5,763,000
Portugal	120,382	221,455	236,453	r 264,217	271,404	244,880
Roumania	1,081,872	1,486,942	1,679,000	1,894,000	1,987,000	2,163,000
Spain	2,089,512	2,120,045	1,952,717	1,938,618	2,366,000	2,162,000
Sweden	1,869,610	1,932,333	1,993,065	r 2,324,201	2,420,780	2,400,000
Switzerland	50,000	50,000	41,000	30,000	25,000	25,000
U.S.S.R.	50,089,000	54,392,000	57,764,000	61,392,000	65,200,000	69,154,000
Yugoslavia	1,036,000	1,086,000	1,043,450	1,056,616	1,156,395	1,198,072
Egypt	171,000	173,000	201,473	189,062	170,000	(d) 170,000
South Africa	2,291,200	2,361,100	2,389,200	2,853,700	3,595,600	3,740,000
Mexico	771,534	814,001	845,468	954,000	973,000	1,162,569
United States	59,433,091	60,352,980	65,817,167	78,511,112	81,176,821	83,931,600
Argentina	390,211	390,200	415,800	580,000	652,700	510,400
Brazil	1,830,836	2,086,070	r 2,474,955	r 2,625,321	2,364,795	2,916,917
Chile (b)	281,000	377,000	411,000	430,000	304,000	426,000
Colombia	186,000	143,000	199,000	201,728	200,727	166,000
Peru (b)	50,000	38,000	r 29,000	27,000	20,000	12,000
Venezuela	5,000	121,000	297,000	r 318,000	329,000	345,000
China (d)	15,000,000	15,000,000	17,000,000	18,000,000	19,000,000	20,000,000
Formosa (f)	52,009	62,380	52,763	60,860	70,900	69,712
Japan	16,294,968	18,197,975	20,154,399	24,100,000	27,700,000	32,200,000
Korea (South)	8,962	—	5,340	1,314	18,092	20,270
Korea (North)	935,000	1,219,000	1,165,000	1,348,000	(d)1,462,000	(d)1,500,000
Thailand	5,000	5,000	6,000	5,000	5,000	2,000
Turkey	r 232,000	r 288,000	r 392,000	r 400,000	499,000	816,000
TOTAL	224,000,000	233,000,000	246,000,000	278,000,000	295,000,000	307,000,000
WORLD'S TOTAL	252,000,000	261,000,000	276,000,000	312,000,000	330,000,000	341,000,000

* For details see page 154.

(a) Excluding electric furnace and aluminio-thermic ferro-alloys. For these see page 155.

(b) Excluding ferro-alloys.

(c) Estimated.

(d) United States Bureau of Mines' estimate.

(e) Including recovery from scrap and excluding ferro-alloys. For ferro-alloys see page 154.

(f) Including recovery from scrap.

DETAILS OF PRODUCTION OF PIG-IRON AND FERRO-ALLOYS IN CERTAIN COUNTRIES

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Hematite	1,136,800	875,700	816,800	956,800	877,300	677,900
Basic	12,255,700	11,568,300	12,644,400	15,069,300	15,377,100	13,945,100
Foundry	1,196,200	1,054,000	1,005,800	1,079,100	1,012,300	926,700
Forge						
Direct castings						
Blast furnace ferro-alloys—						
Spiegeleisen	29,600	41,100	23,000	16,900	21,200	9,100
Ferro-manganese	128,800	153,000	101,400	151,500	172,000	150,900
Canada—						
Basic	3,753,195	4,072,565	4,549,179	r5,060,871	5,634,602	5,683,266
Foundry	345,218	227,506	279,153	r 389,620	427,926	417,529
Malleable	317,678	411,315	469,230	r 398,469	245,401	338,975
Ferro-alloys (a)	105,357	127,000	135,000	r 145,000	162,109	167,745
India—						
Basic	3,536,000	4,240,000	4,750,000	4,640,000	6,860,000	6,970,000
Foundry	1,067,000	1,100,000	1,364,000	1,297,000		
Other pig-iron	265,000	319,000	365,000	552,000		
Direct castings	40,000	48,000	20,000	123,749	146,973	156,000
Ferro-manganese	100,000	110,000	115,711			
Ferro-silicon	9,000	12,000	14,982			
Ferro-chrome	—	—	—	319	—	—
Australia—						
Pig-iron	3,156,411	3,434,336	3,629,771	r 3,930,107	4,183,678	4,666,885
Ferro-manganese (b)	—	17,000	34,000	33,729	40,254	44,729
Ferro-silicon (b)	8,144	7,438	8,302	5,015	4,404	4,225
Ferro-nickel (b)	1,426	—	—	—	—	—
Silico-manganese (b)	2,409	5,039	4,322	13,510	15,748	10,716
Ferro-chrome (b)	705	571	1,094	2,441	1,337	1,753
Chrome silicide (b)	—	—	—	238	—	—
OTHER COUNTRIES						
Austria—						
Basic	2,142,834	2,061,747	2,037,632	2,139,502	2,111,378	2,131,090
Hematite	65,568	16,057	35,102	29,575	53,954	28,847
Other	18,172	6,417	—	—	—	—
Electric furnace ferro-alloys						
	5,700	3,800	3,900	5,100	5,100	4,800
Belgium—						
Basic	6,207,543	6,521,320	r6,695,583	7,816,863	8,122,069	7,977,674
Forge	13,008	4,729	r 481	1,021	—	—
Foundry	110,458	92,703	r 76,155	89,704	98,590	105,223
Ferro-alloys	20,953	15,124	r 17,335	11,912	13,274	16,790
Czechoslovakia—						
Basic	4,283,000	4,522,000	4,550,000	4,944,000	5,048,000	5,471,000
Foundry	539,000	498,000	544,000	591,000	636,000	651,000
Ferro-alloys	70,000	75,000	77,000	92,000	92,000	48,000
France—						
Phosphoric (over 1.4% P)—						
Basic	12,342,936	11,946,528	11,872,295	12,793,864	12,357,070	12,048,514
Foundry	170,300	146,726	146,518	156,782	141,593	82,489
Semi-phosphoric (from 0.5% to 1.4% P)—						
Foundry	286,204	294,265	293,879	288,060	267,647	195,494
Open hearth, basic	66,726	—	(c)	(c)	(c)	(c)
Hematite (less than 0.5% P)—						
Foundry	360,900	366,023	436,753	443,040	500,599	542,941
Open hearth and Bessemer	352,526	265,488	769,698	1,279,228	1,653,051	1,951,609

(a) Factory shipments.

(b) Years ended November 30 of year stated.

(c) Included, if any, with phosphoric.

DETAILS OF PRODUCTION OF PIG-IRON AND FERRO-ALLOYS (cont.)

Long tons

Producing Country	1961	1962	1963	1964	1965	1966	
OTHER COUNTRIES							
<i>(cont.)</i>							
France (cont.)—							
Blast furnace ferro-alloys—							
Spiegeleisen	130,802	135,723	110,153	90,725	103,703	52,252	
Ferro-manganese	270,148	267,393	252,510	315,021	321,945	296,762	
Other pig-iron	355,786	316,325	198,702	245,454	175,329	173,908	
Electric furnace and alumino-thermic ferro-alloys—							
Ferro-silicon (50% Si)	126,468	102,095	86,649	101,720	117,550	119,742	
Silico-spiegeleisen and silico-manganese	15,409	12,279	18,442	11,505	14,285	12,855	
Silico-aluminium and silico-manganese-aluminium	1,020	1,506	938	844	1,052	n.a.	
Ferro-manganese	25,836	28,080	28,500	28,864	29,845	n.a.	
Ferro-chrome	66,333	56,019	53,722	61,480	70,356	n.a.	
Ferro-tungsten (<i>W content</i>)	1,112	898	657	458	559	n.a.	
Ferro-molybdenum (<i>Mo content</i>)	2,052	1,593	1,772	1,786	1,428	n.a.	
Ferro-vanadium (<i>V content</i>)	443	275	269	306	392	n.a.	
Titanium alloys	4,661	2,734	3,424	3,915	4,876	n.a.	
Silico-zirconium	3,501	266	338	506	1,277	n.a.	
Silico-chrome		2,337	3,370	4,097	3,907	n.a.	
Ferro-silico-magnesium and silico-magnesium	1,160	1,673	2,662	2,227	3,268	n.a.	
Ferro-niobium (<i>Nb + Ta content</i>)	14	17	13	70	47	n.a.	
Germany (Federal)—							
Hematite and malleable Basic	1,001,000	950,000	959,000	1,234,000	1,271,000	1,120,000	
Foundry	16,000,000	14,941,000	13,858,000	15,282,000	14,681,000	13,493,000	
Foundry	678,000	657,000	593,000	493,000	446,000	299,000	
Stahleisen	6,662,000	6,777,000	6,599,000	9,224,000	9,614,000	9,545,000	
Spiegeleisen (blast-furnace)	267,000	271,000	286,000	283,000	276,000	291,000	
Ferro-manganese (blast furnace)							
Siegerland special							
Other pig-iron							
Ferro-silicon (blast-furnace)	420,000	271,000	253,000	237,000	276,000	264,000	
Electric furnace and alumino-thermic ferro-alloys	146,103	110,056	103,635	129,371	141,721	145,506	
Germany (East)—							
Foundry	489,500	530,000	524,700	541,700	596,200	594,100	
Open hearth	1,054,300	1,058,800	1,140,300	1,225,200	1,238,700	1,342,300	
Basic Bessemer	421,900	432,600	430,100	437,400	449,300	455,500	
Spiegeleisen	33,100	20,500	20,300	19,100	16,600	17,100	
Other	—	500	500	800	300	—	
Hungary—							
Basic	1,146,683	1,245,516	1,264,456	1,382,027	1,489,000	1,559,000	
Foundry	137,548	110,357	99,149	87,698	64,000	48,000	
Spiegeleisen	1,253	3,820	2,535	917	4,000	—	
Ferro-manganese	8,715	12,704	6,952	161	1,536	2,223	
Ferro-silicon	4,866	5,881	6,174	5,611	5,542	5,035	
Italy—							
Pig-iron	3,008,079	3,499,821	3,681,586	3,442,542	5,401,116	6,158,206	
Spiegeleisen	6,838	4,333	5,481	1,330	2,829	3,420	
Ferro-manganese	32,658	26,091	28,657	24,564	18,792	21,847	
Ferro-silicon	50,994	43,212	43,514	44,099	48,226	61,427	

DETAILS OF PRODUCTION OF PIG-IRON AND FERRO-ALLOYS (cont.)

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Italy (cont.)—						
Silico-manganese ..	25,827	24,789	33,739	26,990	33,817	31,534
Ferro-chrome ..	16,374	10,016	5,146	15,208	21,795	28,798
Ferro-titanium ..	151	162	199	232	76	99
Ferro-tungsten ..	87	34	33	21	140	15
Ferro-vanadium ..	83	49	80	129	140	147
Ferro-molybdenum ..	1,072	942	833	859	957	947
Silico-aluminium ..	1,090	619	634	1,090	—	814
Silicon pig iron (10-12% Si) ..	2,522	2,217	967	1,631	1,752	1,852
Silico-spiegeleisen ..	1,305	1,326	1,750	2,053	1,318	1,597
Silico-chrome ..	312	1,117	—	2,885	n.a.	n.a.
Calcium silicide ..	2,875	4,081	3,676	3,049	3,670	3,340
Ferro-phosphorus ..	616	700	463	759	n.a.	n.a.
Luxemburg—						
Basic ..	3,773,177	3,540,045	3,530,158	4,124,824	4,079,129	3,899,902
Norway—						
Pig-iron ..	372,065	389,572	400,594	429,815	516,061	619,702
Ferro-silicon ..	190,279	168,910	155,721	220,970	273,710	232,745
Ferro-manganese ..	52,107	54,423	57,091	74,684	118,701	115,221
Ferro-silico-manganese ..	88,994	77,149	89,026	107,809	124,318	119,454
Ferro-chrome and silico-chrome ..	40,210	21,022	33,346	45,112	39,023	30,516
Other ferro-alloys ..	1,049	1,259	1,250	1,079	1,137	3,602
Portugal—						
Basic ..	118,302	181,586	199,597	222,671	244,065	221,008
Foundry ..		36,689	31,284	35,930	20,490	15,772
Ferro-manganese ..	2,080	393	706	661	672	825
Ferro-silicon ..		2,787	4,866	4,633	5,962	7,034
Ferro-tungsten ..	—	—	—	322	215	241
Spain—						
Pig-iron ..	2,043,997	2,066,682	1,880,923	1,873,333	2,296,000	2,081,000
Ferro-manganese ..	21,937	27,571	27,145	32,326	37,163	38,170
Ferro-silicon ..	22,185	24,771	27,601	16,364	14,867	25,380
Ferro-tungsten ..	95	153	17,048	16,595	17,500	17,300
Ferro-chrome ..	805	868				
Ferro-phosphorus ..	493	—	—	—	—	—
Other ferro-alloys ..	—	—	—	—	—	—
Sweden—						
Pig-iron ..	1,732,388	1,792,577	1,854,282	2,161,175	2,243,506	2,200,000
Ferro-manganese ..	23,211	22,903	25,480	26,250	25,703	25,000
Ferro-silicon ..	31,203	25,561	23,148	26,862	30,379	28,700
Ferro-silico-manganese ..	11,803	14,023	10,970	10,733	14,428	20,800
Ferro-chrome ..	50,583	43,666	45,067	50,036	56,217	55,200
Ferro-titanium ..	—	60	—	—	—	—
Ferro-tungsten ..	553	519	237	208	78	100
Ferro-molybdenum ..	1,761	1,241	1,460	2,043	2,397	2,300
Ferro-vanadium ..	344	282	312	319	370	400
Metallic silicon ..	4,279	5,919	8,026	7,145	9,168	8,800
Silico-chrome ..	12,380	25,253	23,816	39,206	38,386	37,300
Other ferro-alloys ..	1,105	329	267	224	148	n.a.
U.S.S.R.—						
Basic ..	41,354,000	44,859,000	47,602,000	50,779,000	n.a.	58,887,000
Foundry ..	7,313,000	7,943,000	8,481,000	8,835,000	n.a.	8,837,000
Spiegeleisen ..	95,000	89,000	90,000	80,000	n.a.	91,000
Ferro-manganese ..	688,000	799,000	808,000	902,000	n.a.	888,000
Other blast furnace ferro-alloys ..	639,000	702,000	783,000	796,000	n.a.	451,000
Yugoslavia—						
Pig-iron ..	981,000	1,033,000	980,673	1,009,814	1,097,447	1,125,155
Ferro-alloys ..	54,772	52,626	62,777	46,802	58,948	72,917
South Africa—						
Pig-iron ..	2,099,900	2,192,700	2,182,800	2,614,500	3,219,600	3,367,900
Ferro-alloys ..	191,300	168,400	206,400	239,200	376,000	372,100

DETAILS OF PRODUCTION OF PIG-IRON AND FERRO-ALLOYS (cont.)

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
United States—						
Basic	51,919,214	52,505,467	57,991,137	69,997,803	71,813,215	74,529,700
Bessemer	2,322,452	2,520,245	2,472,682	2,435,272	2,425,000	2,573,200
Low phosphorus	157,212	156,012	167,561	174,737	195,939	186,600
Foundry	1,216,263	1,275,548	1,368,587	1,449,111	1,428,054	1,493,800
Malleable	1,877,432	1,923,176	1,952,204	2,029,979	2,505,409	2,542,900
Other pig-iron	213,397	227,431	194,306	279,691	368,902	370,500
Ferro-manganese and spiegeleisen	699,329	716,067	606,635	773,712	901,041	816,100
Ferro-silicon and silvery pig-iron	476,987	487,405	493,874	598,416	(b) 628,712	(b) 463,400
Other ferro-alloys	550,805	541,629	570,181	772,391	910,549	955,400
Brazil—						
Pig-iron	1,797,213	2,048,116	r 2,437,428	r 2,586,979	2,317,477	2,865,576
Spiegeleisen	273	124	—	—	—	—
Ferro-chrome	968	1,982	r 1,684	128	2,150	2,978
Ferro-columbium	—	—	—	18	272	452
Ferro-manganese	18,196	22,646	r 20,132	20,317	22,829	27,795
Ferro-nickel	335	326	r 237	r 3,172	3,525	3,708
Ferro-silicon	7,373	7,931	r 9,930	r 8,120	7,489	9,178
Ferro-silico-manganese	6,478	4,945	5,544	6,587	11,053	7,230
Japan—						
Pig-iron	15,674,147	17,688,051	19,621,124	23,402,839	27,068,000	31,512,000
Spiegeleisen	3,100	3,583	717	535	100	500
Ferro-chrome	98,514	83,193	80,587	134,632	115,000	135,100
Ferro-manganese	182,601	163,962	162,979	208,248	217,200	233,800
Ferro-molybdenum	1,954	497	1,001	1,406	1,200	1,700
Ferro-phosphorus	2,164	1,130	1,241	1,703	1,500	2,000
Ferro-silicon	96,570	74,165	92,687	111,995	118,900	136,400
Ferro-titanium	448	450	169	n.a.	n.a.	n.a.
Ferro-tungsten	1,676	869	748	1,159	700	700
Ferro-nickel	61,658	35,404	46,143	77,086	72,600	70,400
Ferro-vanadium	1,269	598	1,267	1,110	n.a.	n.a.
Silico-manganese	94,335	88,056	95,353	112,906	113,400	124,100
Silico-chrome	58,632	43,206	31,989	58,209	n.a.	n.a.
Calcium-silicon	9,222	7,361	6,922	9,477	5,500	7,200
Other ferro-alloys	8,678	7,450	11,472	n.a.	n.a.	n.a.
Turkey—						
Pig-iron	r 232,000	r 288,000	r 388,000	r 395,000	492,000	809,000
Ferro-chrome	—	—	3,700	4,745	7,355	7,000

(a) Estimated.

(b) Excluding silvery pig-iron, included with "other pig-iron".

PRODUCTION OF STEEL INGOTS AND CASTINGS*

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom	22,086,100	20,491,000	22,520,200	26,229,900	27,006,100	24,315,300
Rhodesia (c)	90,800	86,600	82,555	125,597	128,000	128,000
Canada	5,793,131	6,404,941	7,318,813	r 8,150,417	8,954,374	8,931,132
India	4,019,000	5,070,600	(c)5,874,324	(c)5,937,477	(c)6,311,398	(c)6,502,000
Pakistan	11,655	10,537	11,590	12,067	n.a.	n.a.
Australia (f)	3,884,929	4,170,767	4,579,892	r 4,967,744	5,373,049	5,796,813
TOTAL	35,880,000	36,230,000	40,390,000	r45,420,000	47,800,000	45,700,000
Irish Republic (d)	28,000	18,800	19,400	51,800	52,100	n.a.
OTHER COUNTRIES						
Austria	3,052,367	2,923,119	2,900,761	3,143,976	3,170,438	3,142,383
Belgium	6,850,345	7,181,300	r 7,298,575	8,600,000	9,000,000	8,700,000
Bulgaria	334,610	415,993	453,334	467,000	579,000	689,000
Czechoslovakia	6,931,000	7,518,000	r 7,480,000	8,244,000	8,463,000	8,713,000
Denmark	317,800	361,000	353,200	389,900	405,400	398,300
Finland	272,738	299,064	303,543	352,000	373,000	409,000
France	17,292,546	16,968,015	17,279,305	19,467,773	19,294,145	19,275,848
Germany—						
Federal Republic	32,929,000	32,045,000	31,098,000	36,749,000	36,240,000	34,758,000
Eastern	3,390,000	3,564,800	3,568,600	3,790,900	3,828,500	4,020,000
Greece	(e) 130,000	(e) 150,000	206,000	207,000	207,000	207,000
Hungary	2,020,693	2,295,710	2,336,539	2,327,404	2,480,294	2,607,000
Italy	8,980,181	9,603,344	9,996,123	9,638,613	12,460,328	13,423,208
Luxemburg	4,047,827	3,946,610	3,967,985	4,486,546	4,512,400	4,320,794
Netherlands	1,939,500	2,053,300	2,310,100	2,604,600	3,088,800	3,216,300
Norway	491,003	480,076	535,000	605,720	675,118	716,300
Poland	7,120,000	7,563,000	7,878,000	8,437,000	8,944,000	9,694,000
Portugal	n.a.	171,840	218,879	245,703	264,929	266,371
Roumania	2,092,913	2,412,000	2,661,000	2,991,000	3,372,000	3,612,000
Spain	2,264,800	r 2,498,000	r 2,721,000	r 3,101,000	3,460,000	3,700,000
Sweden	3,505,911	3,553,879	3,838,965	4,438,938	4,637,290	4,681,000
Switzerland	292,000	313,000	317,000	340,000	342,000	421,000
U.S.S.R.	69,634,000	75,101,000	78,959,000	83,691,000	89,563,000	95,376,000
Yugoslavia	1,508,000	1,570,000	1,562,776	1,650,679	1,741,298	1,836,926
Egypt	156,000	187,000	193,964	179,791	183,278	194,204
South Africa (a)	2,390,300	2,537,600	2,707,400	2,954,400	3,080,100	3,092,300
Mexico	1,648,334	1,656,000	1,935,398	2,300,000	2,341,091	2,666,802
United States (b)	87,512,940	87,792,666	97,554,418	113,460,506	117,376,430	119,733,400
Argentina (c)	434,513	634,300	880,600	1,247,000	1,324,900	1,250,300
Brazil	2,404,600	2,524,700	2,787,100	r3,024,400	2,969,200	3,800,000
Chile (c)	357,140	486,748	481,274	535,655	434,000	531,000
Colombia	176,000	136,100	195,422	192,979	200,490	171,000
Peru	74,000	70,000	75,000	81,000	93,000	76,000
Uruguay	9,000	9,000	7,000	14,000	13,000	23,000
Venezuela	74,000	221,000	358,000	433,000	1,068,000	514,000
Burma (e)	11,000	13,000	15,000	15,000	15,000	15,000
China	9,500,000	10,000,000	12,000,000	e 14,000,000	e15,000,000	e16,000,000
Formosa	195,000	179,000	271,000	296,000	433,000	295,000
Israel	61,000	79,000	82,000	(e) 82,000	(e) 83,000	(e) 83,000
Japan	27,821,909	27,111,196	31,003,913	39,170,588	40,511,000	47,029,100
Korea (North)	760,000	1,033,000	1,006,000	r1,032,000	1,210,000	(e)1,300,000
Korea (South)	65,136	146,057	159,800	131,634	191,793	214,418

* For details see page 160.

(a) Excluding steel castings for which the amounts produced for sale were 45,400 tons, 62,300 tons, 82,000 tons, 93,200 tons, 106,900 tons and 99,700 tons in 1961, 1962, 1963, 1964, 1965 and 1966 respectively.

(b) Excluding steel castings which were produced by companies not manufacturing steel ingots.

(c) Ingots only.

(f) Including recovery from scrap.

(d) Years ended June 30 of that stated.

(e) United States Bureau of Mines' estimate.

PRODUCTION OF STEEL INGOTS AND CASTINGS (cont.)

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES (cont.)						
Philippine Republic ..	(a) 70,000	n.a.	n.a.	n.a.	n.a.	n.a.
Thailand	8,000	7,000	3,000	4,000	7,000	5,000
Turkey (b)	317,824	308,000	382,000	477,000	655,000	924,000
TOTAL	309,000,000	318,000,000	340,000,000	r386,000,000	404,000,000	422,000,000
WORLD'S TOTAL ..	345,000,000	354,000,000	380,000,000	r431,000,000	452,000,000	468,000,000

(a) United States Bureau of Mines' estimate.

(b) Ingots only.

DETAILS OF PRODUCTION OF STEEL INGOTS AND CASTINGS
IN CERTAIN COUNTRIES

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ingots and castings—						
Open hearth, acid ..	610,500	445,400	383,500	419,300	392,000	255,900
do. basic ..	17,768,300	16,274,700	16,725,600	18,069,600	16,822,200	14,114,700
Bessemer, acid (a) ..	254,000	193,000	213,700	290,300	258,400	} 6,601,300
do. basic (a) ..	1,699,000	2,013,700	3,041,900	4,432,300	6,026,300	
Ingots, electric ..	1,207,100	1,102,900	1,692,300	} 2,938,700	} 3,437,300	} 3,343,400
Castings, electric ..	440,900	377,700	384,600			
All other ingots and castings ..	106,300	83,600	78,600	79,700	69,900	(b)
Canada—						
Ingots—						
Open hearth, basic and oxygen ..	5,100,755	5,709,331	6,537,118	r 7,249,831	7,809,471	7,728,426
do. electric ..	592,197	583,796	669,098	r 756,881	999,099	1,034,132
Castings—						
Open hearth, basic ..	2,527	2,790	2,360	r 1,206	} 145,804	} 168,574
Electric ..	97,652	109,024	110,237	r 142,499		
India—						
Ingots—						
Open hearth, basic ..	3,894,077	4,934,779	5,791,632	5,851,577	6,205,109	} 6,502,000
Electric ..	69,339	75,362	82,692	85,900	106,289	
Castings ..	56,000	60,500	n.a.	n.a.	n.a.	n.a.
OTHER COUNTRIES						
Austria—						
Open hearth ..	890,047	800,888	735,861	810,409	826,662	823,472
Electric ..	372,502	321,532	345,409	400,627	405,712	391,727
L.D. ..	1,789,818	1,800,699	1,819,491	1,932,940	1,938,064	1,927,184
Belgium—						
Ingots, open hearth ..	529,767	496,606	317,964	435,767	377,825	245,521
do. Bessemer, basic ..	5,872,962	6,265,329	r 6,599,526	7,088,736	6,780,051	6,144,916
do. electric ..	377,914	350,868	183,935	340,904	333,607	302,787
do. oxygen ..	—	—	134,091	625,682	1,424,108	1,987,332
Castings ..	69,702	68,497	63,059	n.a.	n.a.	n.a.
Czechoslovakia—						
Open hearth ..	5,781,000	6,266,000	r 6,198,000	r 6,897,000	7,087,000	7,285,000
Bessemer ..	231,000	226,000	219,000	230,000	233,000	238,000
Electric ..	919,000	1,026,000	r 1,063,000	r 1,117,000	1,143,000	1,190,000
Denmark—						
Ingots, open hearth ..	291,000	334,500	328,600	362,700	376,300	373,400
Castings do. ..	5,600	4,000	9,000	5,400	6,100	8,100
do. electric ..	21,200	22,500	15,600	21,800	23,000	16,800
Finland—						
Ingots ..	262,022	288,272	289,220	338,000	357,000	393,000
Castings ..	10,716	10,792	14,323	14,000	16,000	16,000
France—						
Ingots and castings—						
Bessemer, acid ..	110,423	99,836	79,742	92,019	87,018	65,673
do. basic ..	10,239,699	9,867,543	9,678,178	10,435,836	10,231,772	10,138,067
Open hearth, acid ..	—	} 4,848,203	} 4,698,713	} 5,100,438	} 4,699,518	} 4,412,322
do. basic ..	4,981,810					
Crucible ..	2,453	2,500	2,086	1,957	1,995	566
Electric ..	1,541,573	1,502,105	1,501,032	1,648,653	1,746,371	1,833,469
Kaldo, L.D., etc. ..	416,588	647,828	1,319,554	2,188,870	2,527,471	2,825,751
Of which—						
Ingots ..	16,938,838	16,603,902	16,938,984	19,106,958	18,933,262	18,943,472
Castings ..	353,708	364,113	340,321	360,815	360,883	332,376

(a) Bessemer acid and basic includes V.L.N., L.D., Rotor, and as from 1964, Kaldo.

(b) Included with Bessemer.

DETAILS OF PRODUCTION OF STEEL INGOTS AND CASTINGS (cont.)

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
(cont.)						
Germany (Federal)—						
Ingots—						
Open hearth	15,052,000	14,693,000	13,724,000	16,482,000	15,479,000	13,488,000
Bessemer, basic	14,141,000	13,002,000	12,244,000	12,046,000	10,640,000	9,640,000
Electric	1,836,000	2,035,000	2,150,000	2,451,000	2,557,000	2,545,000
Oxygen	1,182,000	1,657,000	2,414,000	5,143,000	6,924,000	8,516,000
Castings—						
Open hearth	160,000	117,000	72,000	87,000	78,000	57,000
Electric	492,000	490,000	454,000	501,000	530,000	497,000
Other	66,000	51,000	40,000	39,000	32,000	15,000
Germany (East)—						
Open hearth	2,665,200	2,816,400	2,820,200	3,020,900	3,044,300	3,209,300
Bessemer, basic	364,400	375,900	369,800	373,500	368,700	371,900
Electric	340,600	363,700	378,600	396,500	415,500	438,800
Other	19,800	8,800	—	—	—	—
Italy—						
Ingots	8,782,674	9,409,042	9,803,095	9,473,766	12,305,884	13,252,048
Castings	197,507	194,302	193,028	164,847	154,444	171,160
Luxembourg—						
Bessemer, basic and oxygen						
Electric	3,973,662	3,883,634	3,903,032	4,418,512	4,456,700	4,270,272
Electric	74,165	62,976	64,953	68,034	55,665	50,522
Norway—						
Ingots	468,344	456,552	511,021	580,979	648,096	687,042
Castings	22,659	23,524	24,000	24,741	27,022	29,300
Portugal—						
Ingots—						
L.D.	n.a.	160,918	179,327	203,807	228,411	210,259
Electric	n.a.	3,761	30,230	32,242	29,456	43,254
Castings	n.a.	7,161	9,322	9,654	7,062	12,858
Spain—						
Open hearth and Bessemer						
Electric	2,013,900	r 1,858,000	r 1,822,000	r 1,947,000	2,010,000	2,100,000
Electric	250,900	r 640,000	r 798,000	r 824,000	1,045,000	1,196,000
Oxygen	—	—	r 101,000	r 330,000	405,000	400,000
Sweden—						
Open hearth, acid	336,785	347,313	348,458	412,217	455,955	} 1,425,000
do. basic	864,585	799,583	866,142	989,384	1,040,939	
Bessemer, acid	25,295	—	—	—	—	—
do. basic	477,544	438,372	437,336	456,704	364,410	142,000
Electric	1,600,866	1,541,204	1,658,952	1,861,594	1,765,118	1,745,000
Other	200,836	427,407	528,077	719,039	1,010,868	1,369,000
U.S.S.R.—						
Open hearth	59,101,000	63,899,000	66,994,000	70,496,000	75,321,000	78,378,000
Bessemer	1,865,000	1,879,000	1,940,000	1,954,000	2,060,000	1,930,000
Electric	6,201,000	6,710,000	7,346,000	8,043,000	8,420,000	8,736,000
Other	2,467,000	2,613,000	2,679,000	3,198,000	3,762,000	6,332,000
of which—						
Ingots	64,497,000	69,761,000	73,236,000	77,675,000	n.a.	89,063,000
Castings	5,137,000	5,340,000	5,723,000	6,016,000	n.a.	6,313,000
Yugoslavia—						
Open hearth	1,371,000	1,413,000	1,369,682	1,459,240	1,515,310	1,547,713
Electric	136,800	157,300	193,094	191,439	225,988	289,213
South Africa—						
Ingots—						
Open hearth (in-	} 2,112,300	2,234,500	{ 1,656,200	1,675,200	1,638,500	1,649,400
cluding duplex)						
Oxygen						
Electric	278,000	303,100	376,200	405,500	470,500	440,100
Castings (a)	45,400	62,300	82,000	93,200	106,900	99,700

(a) Produced for sale.

DETAILS OF PRODUCTION OF STEEL INGOTS AND CASTINGS (cont.)

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
United States—						
Ingots and castings (a)—						
Open hearth, acid ..	351,584	338,468	354,656	395,298	292,246	197,300
do. basic ..	75,096,694	73,730,566	78,961,348	87,191,754	83,808,848	75,718,100
Bessemer	786,661	718,719	859,517	765,702	523,183	248,200
Oxygen	3,542,105	4,957,765	7,628,641	13,787,666	20,427,326	30,293,000
Electric	7,735,896	8,047,148	9,750,256	11,320,086	12,324,827	13,276,800
Of which—						
Ingots	87,346,859	87,631,707	97,395,545	113,261,201	117,137,796	119,450,400
Castings	166,081	160,959	158,873	199,305	238,634	283,000
Japan—						
Open hearth	16,702,821	13,074,666	12,001,986	13,634,591	10,003,800	8,498,500
Bessemer, basic ..	5,272,273	8,307,354	11,854,960	17,303,032	22,271,100	29,439,900
Electric	5,846,815	5,729,176	7,146,967	8,232,965	8,236,100	9,090,700

(a) Excluding steel castings produced by companies not manufacturing steel ingots.

EXPORTS OF PIG-IRON, FERRO-ALLOYS, STEEL INGOTS AND CASTINGS, ETC.

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Pig-iron—						
Forge and foundry ..	65,833	88,730	20,780	10,877	24,189	6,856
Refined	20,869	20,082	16,155	7,422	9,228	7,000
Other	58,375	110,611	49,656	19,922	54,161	26,078
Iron and steel powders, shot and sponge	<i>n.a.</i>	<i>n.a.</i>	18,078	18,907	20,022	18,122
Spiegeleisen	662	873	76	60	93	—
Ferro-manganese			940	10,036	13,076	22,101
Ferro-tungsten	1,445	1,584	1,225	896	1,005	1,175
Ferro-molybdenum	246	229	160	130	277	478
Ferro-titanium	533	552	1,024	1,076	1,281	1,085
Ferro-vanadium	19	5	3	5	117	61
Ferro-niobium and ferro-niobium-tantalum	83	68	173	153	212	196
Other ferro-alloys	2,609	2,810	3,240	3,371	2,966	3,173
Ingots, blooms, billets ..	103,333	85,283	32,579	81,053	89,983	82,742
Old and scrap (a)	29,636	1,084,785	1,066,609	703,085	422,811	274,490
Channel Islands—						
Scrap	3,320	3,584	4,336	(c) 1,329	(c) 3,066	(c) 1,864
Malta—						
Scrap	11,378	4,276	5,879	9,749	8,935	5,624
Kenya—						
Scrap	—	<i>n.a.</i>	2,908	22,562	8,618	5,628
Nigeria—						
Scrap	17,923	4,551	5,232	10,755	6,110	9,519
Rhodesia (d)—						
Pig-iron	117,837	201,960	213,277	214,947	211,046	<i>n.a.</i>
Ferro-alloys	8,920	8,078	13,728	22,341	20,990	<i>n.a.</i>
Ingots, etc.	29,410	9,153	184	33,421	22,847	<i>n.a.</i>
Scrap	1,849	10,712	21,376	<i>n.a.</i>	30	<i>n.a.</i>
Tanzania—						
Scrap	—	—	1,599	8,148	2,317	2,283
Barbados—						
Scrap	2,080	—	643	300	<i>n.a.</i>	<i>n.a.</i>
Jamaica—						
Scrap	9,607	1,041	5,048	20	<i>n.a.</i>	<i>n.a.</i>
Trinidad and Tobago—						
Old and scrap	9,081	—	742	3,891	3,447	6,644
Canada—						
Pig-iron	537,656	414,215	435,745	527,711	522,210	452,892
Ferro-chrome	1,466	5,895	2,598	154	183	31
Ferro-manganese	212	121	9	2,999	3,408	5,109
Ferro-silicon	43,704	38,615	32,800	41,060	41,453	33,949
Other ferro-alloys	701	2,971	1,271	214	1,654	5,314
Ingots, blooms, billets ..	291,457	236,238	336,884	394,853	271,220	197,307
Old and scrap	718,545	349,063	383,919	554,071	214,029	266,639
Tin-plate scrap	30,509	19,707	21,776	25,033	19,605	20,903
Aden—						
Scrap	3,690	39	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Hong Kong—						
Old and scrap	203,791	103,988	132,388	148,947	126,773	92,968
Tinplate scrap	2,544	4,059	3,462	4,699	4,027	1,230
India(b)—						
Pig-iron	72,594	19,011	—	—	6	168,165
Ferro-manganese	55,406	12,093	21,581	85,398	55,532	10,127
Ingots, blooms, billets ..	22,718	—	—	—	2,115	2,231
Old and scrap	263,371	176,325	377,863	442,780	439,378	444,917

(a) Excluding ships intended for breaking up as follows (gross tonnage): 1961—55,669; 1962—126,362; 1963—105,581; 1964—67,390; 1965—99,820; 1966—59,960.

(b) Years ended March 31 following that stated. (d) Figures for the years 1961 to 1963 relate to

(c) Jersey only.

Rhodesia and Nyasaland.

EXPORTS OF PIG-IRON, FERRO-ALLOYS, STEEL INGOTS AND CASTINGS, ETC. (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
<i>(cont.)</i>						
Malaysia (West)—						
Scrap	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	34,370	31,939
Singapore—						
Pig-iron	360	1,258	880	853	342	2,359
Ingots, blooms, etc. .. .	764	128	85	25	377	2,044
Scrap	48,743	21,834	27,103	23,113	11,376	8,455
Australia (a)—						
Pig-iron	213,022	225,647	159,359	73,408	59,607	49,831
Ferro-alloys	16	48	8	8	131	51
Ingots, blooms, billets .. .	2,038	159,248	23,885	20,291	5,843	80,768
Old and scrap	205,870	151,038	196,453	336,041	353,963	250,082
Tin-plate scrap	15,753	14,819	22,629	15,576	14,518	14,989
New Zealand—						
Scrap	14,976	<i>n.a.</i>	(a) 285	(a) 578	(a) 529	(a) 4,985
Irish Republic—						
Old and scrap	17,880	14,226	26,032	44,875	34,558	18,346
OTHER COUNTRIES						
Austria—						
Pig-iron	9,990	2,167	1,022	729	49,898	660
Ferro-silicon	} 2,619	2,380	2,361	3,354	3,659	3,903
Other ferro-alloys						
Ingots and blooms	59,887	25,799	11,540	3,626	1,692	5,111
Scrap	4,462	4,427	3,386	3,825	3,686	5,441
Belgium-Luxemburg						
E.U.—						
Pig-iron	43,894	53,204	137,478	64,931	78,582	73,693
Spiegeleisen	4,253	4,163	1,964	4,080	1,076	2,066
Ferro-manganese	16,644	22,946	29,017	36,731	43,021	63,070
Other ferro-alloys	7,793	8,264	5,467	1,468	2,305	2,954
Ingots	50,115	42,630	45,910	41,290	7,436	20,520
Blooms, billets, etc. .. .	679,312	456,788	400,985	647,265	747,398	641,885
Old and scrap	329,671	356,644	512,353	161,640	165,751	728,682
Bulgaria—						
Pig-iron	<i>n.a.</i>	<i>n.a.</i>	8,292	128,851	296,243	<i>n.a.</i>
Steel ingots	1,040	—	15,255	3,875	6,566	<i>n.a.</i>
Denmark—						
Blooms, billets, etc. .. .	1,756	2,143	3,742	3,329	3,085	3,042
Old and scrap	20,127	27,501	38,174	48,868	41,038	37,252
Finland—						
Pig-iron	40,818	106,425	229,944	473,189	784,588	771,419
Ferro-alloys	—	—	16,844	39	—	—
Blooms, billets, etc. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	5,950	5,395
Old and scrap	1,950	3,055	2,974	4,173	3,036	3,566
France—						
Pig-iron	254,134	218,112	149,744	99,370	98,501	55,865
Spiegeleisen	14,142	17,332	12,733	15,821	16,872	12,073
Ferro-manganese	156,294	152,040	147,755	192,878	200,442	184,815
Ferro-silicon	30,275	18,534	18,677	23,653	20,409	20,470
Ferro-chrome	16,218	15,070	16,112	15,980	18,175	22,727
Other ferro-alloys	3,193	4,682	7,074	8,428	13,225	19,693
Ingots	68,355	12,875	18,264	130,989	79,475	91,797
Blooms, billets, etc. .. .	185,893	147,177	345,805	513,941	354,357	406,003
Old and scrap	1,142,799	1,171,229	1,176,547	1,478,046	1,802,489	1,793,996
Germany (Federal)—						
Pig-iron	825,357	882,775	796,781	636,879	421,683	497,591
Spiegeleisen	9,519	16,771	17,619	10,034	9,214	11,533
Ferro-alloys	41,781	43,387	77,314	74,149	72,023	118,102
Ingots, blooms, billets .. .	1,353,355	1,015,174	1,392,207	1,380,083	1,516,924	1,571,166
Old and scrap	1,442,667	1,188,214	1,278,191	1,287,500	1,929,245	1,948,780

(a) Years ended June 30 of that stated.

EXPORTS OF PIG-IRON, FERRO-ALLOYS, STEEL INGOTS AND CASTINGS, ETC. (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Hungary—						
Pig iron	33,977	27,050	14,588	61,754	81,531	78,318
Iceland—						
Scrap	4,970	2,645	n.a.	3,223	1,219	1,399
Italy—						
Pig-iron	r 147	r 126	143	r 63	203	195
Spiegeleisen	240	r 6	8	r 37	516	29
Ferro-manganese ..	2,352	1,276	2,008	r 7,497	6,969	9,125
Ferro-molybdenum ..	(a)	(a)	(a)	r 13	1	1
Ferro-silicon	5,435	r 3,724	1,682	r 572	1,500	1,854
Ferro-silico-manganese	246	290	59	9	38	540
Ferro-chrome	r 10,778	2,276	1,942	r 4,137	7,011	7,941
Ferro-vanadium ..	(a)	(a)	(a)	r 39	18	5
Other ferro-alloys ..	18	2	20	r 99	2	249
Ingots	137,441	120,390	100,397	r 111,073	84,723	34,157
Blooms, billets, etc.						
Scrap	1,054	r 884	1,709	r 4,829	1,798	2,030
Netherlands—						
Pig-iron	162,858	200,698	142,883	93,188	83,196	97,069
Sponge iron	113	421	154	209	80	61
Ferro-alloys	434	209	333	257	221	727
Ingots, blooms and billets	4,678	8,286	34,074	81,557	193,728	266,145
Old and scrap	338,507	230,706	277,612	415,942	442,971	387,647
Norway—						
Pig-iron	117,957	132,985	172,507	121,942	135,528	180,263
Ferro-chrome	21,252	16,797	27,043	33,672	30,384	28,797
Ferro-manganese ..	47,360	45,844	59,499	72,177	100,180	112,460
Ferro-silicon	159,373	133,763	151,627	215,382	236,363	216,214
Ferro-silico-manganese	84,891	70,570	83,022	105,999	116,953	106,830
Other ferro-alloys ..	4,348	3,540	6,550	10,244	6,694	3,423
Ingots, blooms, billets..	25,457	48,119	86,990	103,908	104,188	110,951
Old and scrap	5,513	2,352	4,574	8,661	11,067	14,860
Poland—						
Pig-iron	2,077	27,500	57,576	15,200	1,118	9,842
Ferro-alloys	4,337	3,900	3,536	6,239	4,334	3,024
Portugal—						
Pig-iron	14,795	10,017	19,090	17,309	51	535
Ferro-alloys	987	2,398	3,464	5,627	4,316	6,282
Old and scrap	16,393	14,782	18,089	56,817	30,389	11,562
Spain—						
Pig-iron	283,134	142,339	148,192	145,569	107,969	88,944
Ferro-silicon	11,665	9,700	9,854	7,888	3,123	8,537
Other ferro-alloys ..	5,783	5,602	9,816	9,680	6,477	2,715
Ingots, blooms, billets..	234,473	62,319	49,273	49,165	n.a.	23,583
Sweden—						
Pig-iron	69,721	34,413	56,000	37,134	30,208	13,616
Sponge iron	27,121	28,485	35,577	44,127	62,213	64,152
Ferro-manganese ..	2,540	2,537	4,183	2,913	3,130	8,028
Ferro-silicon	5,785	4,549	2,825	4,667	1,155	1,544
Ferro-silico-manganese	15	25	20			
Ferro-chrome	18,656	17,057	22,613	20,231	18,685	22,555
Ferro-tungsten	20	104	169	71	86	147
Other ferro-alloys ..	1,602	2,902	2,318	2,321	2,341	2,600
Ingots	361	2,623	103,498	118,742	99,725	57,180
Blooms, billets, etc.						
Old and scrap	143,597	106,289	11,616	21,469	18,443	18,367
Switzerland—						
Pig-iron and steel, etc.	346	507	437	—	2	—
Ferro-alloys	11,590	8,929	13,911	15,086	12,807	9,790
Old and scrap	6,155	6,971	14,622	30,562	32,174	16,575

(a) Included, if any, with "Other ferro-alloys".

EXPORTS OF PIG-IRON, FERRO-ALLOYS, STEEL INGOTS AND CASTINGS, ETC. (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
U.S.S.R.—						
Pig iron	1,785,400	2,238,300	2,498,100	3,147,900	3,601,300	4,314,500
Ferro-manganese	50,800	54,800	56,000	58,700	66,200	86,000
Ferro-silicon	55,900	53,300	13,900	65,600	82,700	90,000
Other ferro-alloys	46,300	36,900	61,000	22,200	30,900	30,800
Steel ingots and billets	804,600	829,700	782,600	802,300	837,600	1,010,000
Scrap	219,100	221,200	266,800	464,200	555,600	605,600
Yugoslavia—						
Pig-iron	4,206	59	—	—	—	1,377
Spiegeleisen	1,278	167	—	—	—	—
Ferro-chrome	7,303	5,763	7,184	6,906	9,948	9,090
Ferro-manganese	7,037	7,693	8,130	4,631	3,038	701
Silico-manganese	2,504	1,794	4,564	1,812	2,105	8,960
Ferro-silicon	8,105	9,561	16,168	7,191	10,198	10,481
Steel ingots	—	50,507	27,397	46	—	1,911
Scrap	11,187	2,757	682	281	2,270	720
Algeria—						
Old and scrap	87,700	<i>n.a.</i>	92,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Morocco—						
Old and scrap	39,355	20,138	27,152	30,884	31,634	<i>n.a.</i>
Mozambique—						
Scrap	7,607	—	4,701	8,479	8,724	5,304
South Africa—						
Pig-iron	244,138	212,595	215,365	348,027	554,386	757,757
Ferro-manganese	130,214	104,861	77,444	120,310	155,110	154,400
Other ferro-alloys	28,298	15,131	38,322	52,988	78,183	110,545
Ingots, blooms, billets	17,268	30,469	2,889	3,493	909	3,855
Sudan—						
Scrap	4,823	—	1,705	2,021	1,653	8,969
Tunisia—						
Scrap	19,732	18,238	7,978	10,926	7,894	5,180
Mexico—						
Ferro-alloys	2,574	2,795	1,260	—	—	3,792
United States—						
Pig-iron	371,132	137,839	62,637	157,193	25,201	10,823
Spiegeleisen	469	638	1,050	701	<i>n.a.</i>	<i>n.a.</i>
Ferro-phosphorus	26,839	12,616	36,930	145,684	71,349	56,198
Ferro-manganese	419	3,673	605	3,485	2,922	487
Ferro-chrome	7,004	2,745	2,102	8,957	10,716	6,828
Ferro-molybdenum	160	85	107	779	1,001	982
Ferro-vanadium	107	179	164	92	197	430
Ferro-silicon	31,040	3,662	2,795	5,165	4,094	5,189
Ferro-tungsten	—	5	1	—	—	—
Ferro-titanium	189	116	188	483	7,539	6,519
Other ferro-alloys	4,321	308	384	568		
Steel ingots, slabs, blooms, billets and sheet bars	123,254	225,596	271,889	882,731	605,542	304,610
Scrap (a)	8,447,727	4,499,930	5,681,801	6,948,033	6,619,765	5,230,523
Argentina—						
Ingots, blooms, billets	3,296	1,633	43,876	11,725	4,142	11,941
Brazil—						
Pig-iron	37,862	—	—	146,601	99,696	1,968
Ferro-manganese	49	4,937	—	—	7,145	764
Other ferro-alloys	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,561	3,070	1,282
Chile—						
Pig-iron	—	364	—	<i>n.a.</i>	—	<i>n.a.</i>
Ferro-manganese	3,673	13,509	10,818	<i>n.a.</i>	2,796	<i>n.a.</i>
Formosa—						
Pig-iron	<i>n.a.</i>	<i>n.a.</i>	3,160	4,461	5,851	9,551
Ferro-manganese	<i>n.a.</i>	<i>n.a.</i>	1,548	168	132	1,487
Ferro-silicon	<i>n.a.</i>	<i>n.a.</i>	2,196	1,277	1,138	

(a) Including tin-plate and terne-plate scrap.

EXPORTS OF PIG-IRON, FERRO-ALLOYS, STEEL INGOTS AND CASTINGS, ETC. (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Indonesia—						
Scrap	8,312	984	1,673	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Israel—						
Scrap	1,739	1,342	1,199	1,418	1,253	351
Japan—						
Pig-iron	235	1,867	288	514	3,444	20,503
Ferro-chrome	15,911	12,288	7,840	3,800	23,358	21,904
Ferro-manganese	14,249	21,091	14,158	8,724	15,072	14,808
Ferro-silicon	18	2,646	557	157	993	1,341
Ferro-silico-manganese	772	6,463	3,701	427	712	589
Other ferro-alloys	794	648	767	738	1,405	1,956
Ingots, blooms, billets	1,032	28,913	56,443	57,994	451,273	161,881
Scrap	95	663	1,715	4,239	2,757	2,767
Korea (South)—						
Scrap	500	445	90	30	<i>n.a.</i>	<i>n.a.</i>
Lebanon—						
Scrap	3,796	<i>n.a.</i>	154	795	764	4,356
Philippine Republic—						
Scrap	—	—	492	—	<i>n.a.</i>	<i>n.a.</i>
Thailand—						
Scrap	4,605	576	2,847	2,526	3,225	202
Turkey—						
Pig iron	10,039	<i>n.a.</i>	<i>n.a.</i>	—	492	—
Ingots, blooms, billets	34,595	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Old and scrap	5,388	584	276	133	492	365

IMPORTS OF PIG-IRON, FERRO-ALLOYS, STEEL INGOTS AND CASTINGS, ETC.

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Pig-iron—						
Charcoal	1,492	808	22,234	88,608	69,212	71,738
Forge and foundry ..	4,080	1,436				
Hematite	17,720	59,088	122,336	166,869	160,502	232,514
Basic	4,922	66,760	42,139	77,854	83,476	78,853
Other (vanadium-titanium pig-iron produced in electric furnace)	4,436	3,756	2,558	2,395	2,859	1,922
Sponge-iron	5,519	5,693	7,769	9,856	9,276	9,325
Spiegeleisen	41,830	44,206	345	35	151	49
Ferro-manganese ..			54,205	62,037	80,387	75,849
Ferro-silicon	85,234	75,804	87,825	109,673	117,817	98,290
Ferro-silicon-chrome ..	2,984	3,043	3,848	4,473	4,495	4,133
Ferro-chrome	42,358	24,510	34,458	47,254	60,894	50,065
Ferro-vanadium	71	24	59	85	239	81
Silico-manganese	26,497	25,056	27,297	35,837	32,722	27,847
Other ferro-alloys	2,144	2,016	2,578	4,339	6,740	5,662
Iron and steel ingots, etc.	28,369	4,627	556	15,019	13,229	32,697
Blooms, billets, slabs—						
Iron	—	127	1	11,089	13,894	68,960
Steel	70,757	151,719	255,428	430,383		
Old and scrap (a)	22,648	4,524	4,201	5,004	72,430	5,261
Malta—						
Ingots, etc.	—	306	1,093	2,590	22	79
Ghana—						
Pig-iron	382	191	288	231	241	1,213
Ferro-manganese	24	—	—	21	25	4
Ingots, blooms, etc. ..	13	27	22	2,031	3,098	160
Kenya—						
Pig-iron	1,387	493	493	619	997	1,499
Ferro-alloys	10	2	37			
Ingots, blooms, etc. ..	1,495	1,496	2,554	33	82	27
Mauritius—						
Pig-iron, ingots, etc. ..	34	62	33	43	28	22
Rhodesia (b)—						
Pig-iron, ingots, etc. ..	601	1,491	42	371	262	n.a.
Ferro-alloys	1,353	1,820	1,904	1,164	1,370	n.a.
Tanzania—						
Pig-iron	101	94	94	240	807	1,433
Ferro-alloys	394	723	860			
Ingots, blooms, etc. ..	231	163	282	n.a.	—	—
Uganda—						
Pig-iron	—	45	50	86	518	571
Ferro-alloys	—	192	162			
Ingots, blooms, etc. ..	133	338	182	n.a.	73	—
Zambia—						
Pig-iron	n.a.	n.a.	n.a.	2,472	6,800	5,084
Ferro-alloys	n.a.	n.a.	n.a.	389	1,282	28
Ingots	n.a.	n.a.	n.a.	33	1	123
Canada—						
Pig-iron	308	9,023	15,751	14,188	29,887	28,979
Sponge iron	667	795	1,096	2,046	1,673	1,753
Ferro-manganese and spiegeleisen	10,772	13,332	20,211	19,491	30,859	43,855
Ferro-chrome	(c)	(c)	(c)	9,359	13,693	11,193
Ferro-silicon	3,846	5,332	3,415	3,065	5,589	5,247
Ferro-tungsten	231	127	279	77	158	86
Ferro-vanadium	(c)	(c)	(c)	232	290	427
Silico-manganese and silico-spiegel	1,940	2,434	2,102	1,557	703	1,724

(a) Excluding ships intended for breaking up as follows (gross tonnage): 1961—37,407; 1962—16,413; 1963—14,956; 1964—13,511; 1965—25,316; 1966—n.a.

(b) Figures for the years 1961 to 1963 relate to Rhodesia and Nyasaland.

(c) Included with "Other ferro-alloys".

IMPORTS OF PIG-IRON, FERRO-ALLOYS, STEEL INGOTS AND CASTINGS, ETC. (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES (cont.)						
Canada (cont.)—						
Other ferro-alloys ..	5,939	8,468	8,144	1,334	2,565	2,029
Ingots, blooms, billets ..	5,144	5,595	3,743	5,715	26,433	33,816
Scrap	313,878	400,618	580,971	766,296	911,427	640,819
Jamaica—						
Pig-iron	112	76	210	587	238	350
Trinidad and Tobago—						
Pig-iron	33	11	14	11	4	20
Ingots, etc.	141	733	930	275	162	591
Guyana—						
Pig-iron, ingots, etc. ..	767	65	n.a.	229	1,369	715
Ceylon—						
Pig-iron	695	586	519	1,091	777	1,384
Ingots, blooms, billets etc.	3,809	4,385	2,142	3,714	1,302	6,963
Cyprus—						
Pig-iron	—	50	199	145	59	255
Ingots, etc.	901	714	961	972	778	356
Hong Kong—						
Pig-iron	1,957	5,260	9,576	7,080	9,328	12,101
Ingots, blooms, billets ..	627	4,619	2,982	813	7,377	10,542
Old and scrap	23,457	40,464	39,974	58,872	90,012	35,915
Tinplate scrap	10,707	11,922	14,347	16,992	15,780	16,806
India (b)—						
Pig-iron	1,672	826	207	104,690	75,161	1,958
Ingots, blooms, billets ..	16,958	76,647	50,397	53,069	40,970	27,019
Ferro-chrome	803	656	477	1,280	861	519
Ferro-manganese	519	453	677	462	534	875
Ferro-silicon	5,614	534	118	403	97	57
Other ferro-alloys	922	760	2,486	1,318	628	675
Old and scrap	6,669	1,710	1,213	686	4,219	7,008
Malaysia (West)—						
Pig-iron	n.a.	n.a.	n.a.	n.a.	5,568	7,805
Ingots, slabs, etc.	n.a.	n.a.	n.a.	n.a.	401	215
Scrap	n.a.	n.a.	n.a.	n.a.	1,119	4,268
Pakistan—						
Pig-iron	42,920	76,343	50,714	64,364	n.a.	n.a.
Ferro-alloys	1,145	930	573	289	n.a.	n.a.
Ingots, blooms, billets ..	228,214	229,705	226,273	340,786	n.a.	n.a.
Old and scrap	518	49	872	972	n.a.	n.a.
Sabah—						
Ingots, etc.	322	730	1,954	248	116	215
Singapore—						
Pig-iron	2,250	7,656	10,303	5,778	8,163	10,445
Ferro-alloys	11	14	88	143	422	606
Ingots, blooms, etc.	3,164	4,950	6,936	5,826	16,094	4,945
Scrap	14,327	3,799	10,763	18,134	23,918	24,005
Australia—						
Ferro-manganese	40,276	8,723	12,897	5,893	9,896	7,832
Ferro-chrome	4,133	1,974	2,713	2,993	5,864	2,420
Ferro-molybdenum	283	63	149	249	279	366
Ferro-silicon	9,677	3,798	9,558	7,630	13,002	7,500
Other ferro-alloys	1,590	1,660	3,461	2,506	3,546	1,889
Ingots and billets, etc.(c)	410	(a) 191	117	245	54,195	187
Scrap (c)	(a) 2,466	15	81	224	527	(a) 8
New Zealand—						
Pig-iron	9,238	8,896	(c) 7,235	(c) 6,336	(c) 8,362	(c) 7,142
Ferro-manganese	(d)	(d)	(c) 603	(c) 524	(c) 525	n.a.
Other ferro-alloys	263	709	(c) 266	(c) 352	(c) 281	(c) 576
Billets and blooms	2,762	6,729	(c) 2,817	(c) 47	(c) 97	(c) 240

(a) Excess of re-exports.

(b) Years ended March 31 following that stated.

(c) Years ended June 30 of that stated.

(d) Included with "other ferro-alloys."

IMPORTS OF PIG-IRON, FERRO-ALLOYS, STEEL INGOTS AND CASTINGS, ETC. (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
Irish Republic—						
Pig-iron and sponge iron	3,641	3,354	8,507	27,158	20,965	19,998
Ferro-alloys	573	491	541	950	1,053	884
Ingots, blooms, billets, etc.	5,658	9,349	1,403	20,096	51,027	10,503
OTHER COUNTRIES						
Albania—						
Pig-iron	2,185	4,960	2,904	2,642	1,806	n.a.
Austria—						
Pig-iron	67,021	35,299	95,090	188,679	230,527	151,170
Spiegeleisen	1,698	2,255	2,331	2,654	3,063	2,485
Ferro-manganese	8,679	8,481	9,407	11,784	11,230	12,095
Ferro-silicon	8,564	7,787	7,825	8,410	9,151	9,130
Other ferro-alloys	15,815	14,285	16,300	20,097	25,027	25,186
Ingots and blooms	3,212	375	8,521	5,587	27,745	47,871
Scrap	78,267	41,119	52,361	141,326	106,150	53,719
Belgium-Luxemburg						
E.U.—						
Pig-iron	379,182	418,972	465,048	281,271	227,560	206,274
Sponge-iron	1,064	2,094	40	30	572	1,348
Spiegeleisen	16,143	22,537	19,010	18,284	13,768	12,672
Ferro-chrome, etc.	4,161	4,672	4,469	6,950	6,325	6,571
Ferro-manganese	52,644	56,141	37,914	74,556	67,986	67,754
Ferro-silico-manganese	3,766	3,578	3,601	4,488	7,523	4,643
Ferro-molybdenum	532	498	297	379	152	100
Ferro-silicon	20,881	15,636	14,311	17,808	20,028	20,574
Ferro-tungsten	234	132	82	57	14	22
Other ferro-alloys	896	744	1,115	1,771	1,034	2,033
Ingots	57,914	14,344	25,175	196,335	145,147	182,553
Blooms, billets, etc.	32,634	81,943	125,637	167,059	89,124	99,827
Old and scrap	193,644	120,620	85,966	61,962	56,747	190,389
Bulgaria—						
Pig-iron	110,455	132,477	146,720	131,990	162,247	n.a.
Czechoslovakia—						
Pig iron	175,000	250,000	186,000	116,000	116,000	106,000
Denmark—						
Pig-iron	74,175	108,880	80,361	117,078	106,421	92,401
Ferro-chrome	437	413	308	347	414	480
Ferro-manganese, etc.	2,428	2,209	2,932	2,896	2,760	4,159
Ferro-silicon	3,426	2,832	2,557	3,756	3,328	4,275
Other ferro-alloys	259	97	118	37	84	104
Ingots, blooms, billets	20,625	11,656	12,163	36,362	65,813	47,307
Old and scrap	1,289	905	1,172	2,212	271	583
Finland—						
Pig-iron	2,682	3,379	6,945	13,063	1,241	2,730
Billets	103,657	78,928	58,989	36,024	59,495	65,167
Ferro-manganese and spiegeleisen	2,194	2,545	2,598	1,530	1,789	1,258
Other ferro-alloys	7,019	7,026	7,266	5,576	9,056	8,111
Old and scrap	101,353	126,029	81,072	138,641	136,709	120,548
France—						
Pig-iron—hematite	148,191	138,468	169,837	158,757	90,765	120,169
do. other	28,544	23,837	41,134	30,815	22,658	25,280
Sponge-iron	667	2,163	2,275	2,674	3,685	1,629
Spiegeleisen	2,151	2,022	2,658	2,046	1,387	2,262
Ferro-manganese	7,276	7,626	9,963	10,098	8,819	16,421
Ferro-silicon	1	74	915	545	356	834
Ferro-chrome	361	942	889	1,218	449	356
Ferro-nickel	20,957	12,238	19,587	22,349	32,388	28,202
Other ferro-alloys	674	1,073	1,716	3,083	3,672	2,755
Ingots	80,314	126,196	145,552	154,117	109,695	132,133
Blooms, billets, etc.	680,485	495,074	495,417	499,818	448,246	449,057
Old and scrap	730,655	361,304	568,078	575,246	485,875	502,989

IMPORTS OF PIG-IRON, FERRO-ALLOYS, STEEL INGOTS AND CASTINGS, ETC. (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (Federal)—						
Pig-iron	319,545	586,139	457,467	253,542	124,034	133,805
Spiegeleisen	15,223	14,930	13,697	16,002	9,859	10,013
Ferro-alloys	242,207	205,761	207,646	274,844	276,378	182,007
Rough blooms, ingots, bars, etc.	279,656	229,154	662,770	1,052,298	826,739	992,846
Old and scrap	926,736	611,407	628,197	1,736,761	1,070,560	659,187
Germany (East)—						
Pig-iron	554,200	619,300	647,300	779,700	757,200	638,800
Greece—						
Pig-iron	25,346	43,833	28,671	15,128	26,247	26,960
Spiegeleisen	556	125	189	60	147	<i>n.a.</i>
Ferro-alloys	737	722	836	1,170	1,425	1,920
Ingots, blooms, slabs, etc.	74,602	<i>r</i> 107,322	<i>r</i> 69,327	41,875	70,674	79,488
Old and scrap	9,566	5,023	534	1,100	1,155	635
Hungary—						
Pig iron	38,239	100,939	87,394	76,289	103,000	129,000
Ferro-chrome	3,419	4,035	5,632	4,215	4,556	10,254
Ferro-manganese	7,621	10,485	11,208	11,651	11,774	14,634
Ferro-silicon	1,445	2,087	2,466	2,647	3,024	2,393
Other ferro-alloys	368	422	355	343	<i>n.a.</i>	<i>n.a.</i>
Ingots	173,756	323,002	366,817	370,803	<i>n.a.</i>	<i>n.a.</i>
Italy—						
Pig-iron	<i>r</i> 872,327	<i>r</i> 784,466	876,391	<i>r</i> 526,675	641,875	799,585
Spiegeleisen	<i>r</i> 12,512	<i>r</i> 13,476	19,064	6,524	5,223	13,716
Ferro-chrome	<i>r</i> 14,195	<i>r</i> 10,118	14,753	<i>r</i> 16,711	14,673	24,291
Ferro-manganese	<i>r</i> 30,785	<i>r</i> 42,952	53,853	<i>r</i> 53,145	77,451	76,652
Ferro-molybdenum	(<i>a</i>)	—	(<i>a</i>)	453	616	722
Ferro-silicon	1,420	<i>r</i> 6,000	7,386	<i>r</i> 7,241	9,554	13,956
Ferro-silico-manganese	<i>r</i> 2,910	<i>r</i> 2,700	5,535	3,203	5,914	6,710
Ferro-titanium	<i>r</i> 489	<i>r</i> 458	401	<i>r</i> 528	866	607
Ferro-tungsten	<i>r</i> 235	185	129	107	96	178
Ferro-vanadium	(<i>a</i>)	840	(<i>a</i>)	179	334	334
Other ferro-alloys	<i>r</i> 986	<i>r</i> 683	1,672	<i>r</i> 1,000	2,708	5,825
Ingots	1,135,401	990,023	712,099	<i>r</i> 1,372,133	843,731	281,136
Blooms, billets, etc.	3,362,802	<i>r</i> 3,906,685	3,783,838	<i>r</i> 3,103,493	4,520,086	4,035,596
Old and scrap						
Netherlands—						
Pig-iron	13,610	13,063	31,940	84,425	32,112	70,154
Sponge iron	1,106	1,542	1,887	1,730	2,144	2,928
Spiegeleisen	935	483	1,075	708	458	915
Ferro-manganese	14,210	8,297	12,009	16,649	19,824	17,236
Ferro-chrome	302	438	396	820	2,207	2,551
Ferro-silicon	5,249	4,792	4,556	5,964	6,922	6,900
Ferro-silico-manganese	896	405	282	372	252	323
Ferro-molybdenum	51	99	56	50	87	87
Other ferro-alloys	984	1,476	1,018	1,142	1,464	1,990
Ingots, blooms, billets	114,113	57,835	257,322	219,732	134,003	214,439
Old and scrap	36,956	81,097	88,131	42,920	96,763	50,250
Norway—						
Pig-iron	16,813	8,352	10,036	8,679	12,100	17,505
Ferro-alloys	4,816	317	212	274	2,101	486
Ingots, blooms, billets	11,757	8,376	76,022	77,808	80,932	68,898
Old and scrap	52,430	43,490	33,398	26,885	60,471	38,486
Poland—						
Pig-iron	82,389	1,000	63,186	308,500	780,541	763,184
Ferro-alloys	2,126	1,000	1,884	2,504	1,819	3,855
Scrap	<i>n.a.</i>	<i>n.a.</i>	1,128	1,690	2,811	3,787
Portugal—						
Iron and steel ingots	1,113	1,223	224	131	1,105	3,228
Old and scrap	1,176	1,108	1,340	1,371	4,597	4,246

 (*a*) Included, if any, with "Other ferro-alloys".

IMPORTS OF PIG-IRON, FERRO-ALLOYS, STEEL INGOTS AND CASTINGS, ETC. (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Roumania—						
Ferro-alloys	27,300	34,800	33,300	42,300	51,800	50,600
Spain—						
Pig-iron	1,470	3,670	3,204	1,801	15,242	14,167
Ferro-manganese	1,421	1,397	1,483	1,610	1,558	1,324
Other ferro-alloys	1,911	2,670	3,468	5,252	5,322	6,099
Ingots and blooms	278	172,545	138,083	271,775	936,868	597,585
Old and scrap	242,981	301,751	145,188	303,755	423,961	376,939
Sweden—						
Pig-iron	128,436	178,431	185,024	225,753	330,193	418,530
Sponge iron	4,466	478	854	—	—	49
Spiegeleisen	139	100	200	167	492	—
Ferro-manganese	10,806	9,982	12,170	12,347	16,052	22,727
Ferro-chrome	7,288	3,060	5,059	7,516	23,407	16,889
Ferro-silicon and ferro-silicon-manganese	9,496	9,628	14,631	11,984	15,430	15,560
Ferro-tungsten	396	260	256	402	693	709
Other ferro-alloys	3,689	1,289	3,568	6,775	12,770	15,897
Blooms, billets, etc.	22,352	4,814	6,862	5,497	23,361	11,622
Old and scrap	163,907	28,946	121,059	235,680	244,348	215,562
Switzerland—						
Pig-iron	74,463	81,618	63,997	53,483	61,656	59,698
Ferro-alloys	10,718	9,118	13,019	12,798	12,971	16,266
Ingots, blooms, billets	217,092	278,244	299,047	214,904	185,767	166,442
Old, filings and scrap	17,997	37,900	10,998	5,307	4,923	52,107
U.S.S.R.—						
Pig-iron	132,100	138,800	226,000	192,300	145,600	136,300
Ferro-alloys	16,000	12,200	12,200	2,900	5,900	7,200
Ingots	<i>n.a.</i>	121,800	55,300	76,000	30,100	—
Yugoslavia—						
Pig-iron	83,580	112,468	78,791	187,952	221,336	240,579
Ferro-alloys	1,042	1,030	1,460	1,449	1,971	1,559
Ingots	18,651	3,329	20,302	3,723	26,078	44,406
Scrap	123,102	78,421	48,026	118,572	97,495	118,487
Egypt—						
Pig-iron and spiegeleisen	39,933	121,231	49,158	46,253	129,182	73,294
Ferro-alloys	2,371	4,680	5,021	3,751	7,277	4,461
Ingots, billets, etc.	2,950	16,851	<i>n.a.</i>	105,045	40,038	104,442
Scrap	8,088	26,244	50,962	43,653	29,767	139,465
Morocco—						
Pig-iron	901	863	1,408	1,046	880	<i>n.a.</i>
Ferro-alloys	168	189	232	222	289	<i>n.a.</i>
Scrap, etc.	600	409	342	44	75	<i>n.a.</i>
South Africa—						
Pig-iron and steel ingots	307	148	359	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ferro-silicon	447	453	843	1,822	1,335	1,393
Other ferro-alloys	379	417	141	234	265	308
Sudan—						
Crude iron and steel	17,918	49,806	<i>n.a.</i>	<i>n.a.</i>	56	<i>n.a.</i>
Tunisia—						
Pig-iron	100	120	99	480	605	715
Old and scrap	59	12	545	103	104	<i>n.a.</i>
Honduras—						
Ingots, blooms, etc.	<i>n.a.</i>	<i>n.a.</i>	950	1,865	3,953	5,884
Mexico—						
Pig-iron	429	—	38	546	(a) 29,792	(a) 34,480
Ferro-manganese	106	97	530	424	326	308
Other ferro-alloys	1,446	1,415	1,413	2,547	1,186	972
Ingots, blooms, billets	10	7	1	1	29,085	(a) 58,273

(a) Owing to reclassification not strictly comparable with earlier years.

IMPORTS OF PIG-IRON, FERRO-ALLOYS, STEEL INGOTS AND CASTINGS, ETC. (cont.)
Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Mexico <i>(cont.)</i> —						
Scrap	351,553	269,289	142,531	696,494	} 751,477	709,296
Tin-plate scrap	8,942	12,348	15,163	13,108		
Salvador—						
Ingots, blooms, billets	2,037	47	337	1,378	5,326	19,457
Scrap	154	411	401	106	667	706
United States—						
Pig-iron	336,768	446,437	576,191	657,564	787,524	1,059,589
Ferro-chrome	24,834	32,428	25,931	23,321	49,216	59,151
Ferro-manganese	198,157	112,156	132,705	189,847	229,767	173,717
Ferro-silicon	12,259	14,580	13,055	11,751	14,726	11,726
Ferro-titanium	163	107	37	25	15	—
Ferro-tungsten	191	294	487	108	172	169
Sponge iron	3,928	5,126	4,338	11,138	15,292	46,558
Bar-iron, slabs, blooms, etc.	54	189	237	222	} 185,078	200,300
Steel ingots, blooms, etc.	159,746	152,326	232,460	307,822		
Scrap	210,134	215,016	174,449	231,409	172,752	348,397
Tin-plate scrap	29,499	18,832	19,486	20,143	16,954	14,687
Argentina—						
Pig-iron	41,270	12,035	35	22,937	139,686	105,692
Ferro-manganese	415	452	178	292	2,294	474
Ferro-silicon	23,796	706	173	1,143	2,593	878
Ingots	720,552	270,872	81,147	149,160	599,146	1,336
Blooms and billets	684,243	457,262	160,271	312,691	422,915	302,176
Old and scrap	3,228	70	9,195	141	156	24,980
Brazil—						
Ferro-manganese	171	44	58	24	37	319
Ferro-silicon	57	160	82	85	44	538
Ferro-chrome	881	895	985	472	243	1,174
Other ferro-alloys	295	304	113	210	243	677
Chile—						
Pig-iron	} 688	100	6	n.a.	939	n.a.
Ferro-alloys						
Colombia—						
Pig-iron	—	9	—	—	633	1,302
Ingots, etc.	10	—	1,124	—	} 16,682	35,046
Blooms, billets, etc.	—	4,867	10	44,658		
Ferro-alloys	2,105	1,855	3,634	3,447	2,609	3,322
Peru—						
Pig-iron	137	298	81	1,053	168	n.a.
Ferro-alloys	1,042	371	429	620	1,049	1,454
Uruguay—						
Ingots etc.	n.a.	n.a.	n.a.	n.a.	26,094	35,422
Ferro-alloys	n.a.	n.a.	n.a.	n.a.	233	154
Venezuela—						
Pig-iron	234	741	6,355	97	1,263	161
Ferro-alloys	607	4,556	1,973	3,959	8,939	5,850
Scrap	4	11,000	n.a.	n.a.	5,781	4,008
Ingots, blooms and billets	9,991	43,225	6,503	1,007	1,976	363
Formosa—						
Blooms, billets, etc.	10,061	10,956	994	3,007	6,234	14,298
Ferro-alloys	1,027	600	125	240	178	329
Old and scrap	180,443	291,292	170,944	246,196	432,437	268,138
Iran (a)—						
Pig-iron	712	6,586	2,591	19,045	20,796	9,210
Old and scrap	2,587	2,897	5,012	5,547	5,972	4,307
Israel—						
Pig-iron	23,094	18,240	19,854	42,748	11,376	9,918
Spiegeleisen	118	1,676	984	980	n.a.	n.a.
Ferro-alloys	839	4,471	4,467	2,106	1,091	475

(a) Years ended March 20 of year following that stated.

IMPORTS OF PIG-IRON, FERRO-ALLOYS, STEEL INGOTS AND CASTINGS, ETC. (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Japan—						
Pig-iron	2,027,909	1,424,473	1,524,730	3,305,559	2,582,652	2,814,460
Ferro-alloys	21,445	6,541	2,081	25,303	8,932	3,056
Ingots, blooms, billets..	124,259	113,727	4,206	7,299	1,977	4,452
Old and scrap	6,900,920	3,577,393	4,518,587	5,018,222	3,352,764	3,478,335
Jordan—						
Ingots, blooms, billets..	31,258	34,702	40,858	43,122	49,301	64,613
Korea (South)—						
Pig-iron	<i>n.a.</i>	<i>n.a.</i>	2,276	18,488	9,106	50,418
Ferro-alloys	2,249	5,385	4,778	3,081	417	170
Scrap	<i>n.a.</i>	<i>n.a.</i>	60,074	43,779	75,911	192,534
Ingots, blooms, etc. ..	18,737	1,465	43,719	25,207	13,146	56,965
Lebanon—						
Pig-iron	6,968	4,030	6,016	7,037	10,697	10,207
Ferro-alloys	572	303	540	1,274	552	69
Old and scrap	7,554	1,672	2,665	11,406	5,261	689
Philippine Republic—						
Pig-iron	14,097	10,945	9,944	20,758	14,325	<i>n.a.</i>
Ferro-alloys	150	1,098	958	1,959	1,428	<i>n.a.</i>
Ingots, blooms, billets..	6,831	2,237	30,315	65,265	102,157	<i>n.a.</i>
Syria—						
Pig-iron	645	1,414	968	1,913	311	1,308
Scrap	1,475	1,952	2,086	1,626	1,560	931
Thailand—						
Pig-iron	315	296	298	—	90	694
Ferro-alloys	723	602	607	1,122	1,000	1,829
Turkey—						
Pig-iron	5,015	8,033	12,819	27,040	25,237	21,453
Ferro-alloys	3,627	4,400	1,077	6,258	8,359	9,827
Blooms, billets, etc. ..	—	8,079	73,695	88,333	99,919	175,036
Scrap	426	939	9,535	25,384	28,577	31,476

LEAD
PRODUCTION OF LEAD ORE
(Metal content)

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom ..	1,587	903	1,600	1,500	2,400	2,900
Nigeria (a)	6	—	—	—	700	690
Rhodesia	31	—	—	—	—	—
Tanzania (c)	345	—	—	—	—	—
Zambia (b)	15,139	14,592	19,300	12,953	21,008	18,464
Canada (d)	205,745	192,258	179,611	181,890	260,542	266,929
India	3,997	4,523	4,248	4,421	3,918	3,675
Australia	269,656	370,110	410,291	374,856	362,137	362,724
TOTAL	496,506	582,386	615,100	575,600	650,700	655,400
Irish Republic	249	—	—	—	2,311	39,300
OTHER COUNTRIES						
Austria	6,021	5,887	5,442	5,830	5,798	5,595
Bulgaria	78,800	92,900	87,500	89,800	89,600	(e) 100,000
Czechoslovakia (e) ..	6,400	13,300	13,300	13,300	14,000	14,000
Finland (f)	3,071	2,822	1,127	1,860	6,207	4,560
France	18,558	14,050	8,263	11,997	17,766	26,300
Germany—						
Federal Republic ..	48,777	48,968	51,069	48,164	47,880	54,804
East (g)	7,000	7,000	10,000	10,000	10,000	10,000
Greece	11,382	12,597	8,709	r 7,999	8,317	9,596
Hungary	900	900	1,000	r 1,200	1,400	(e) 1,400
Italy	46,622	42,188	28,482	30,622	31,951	32,209
Norway	2,254	2,815	2,944	3,522	3,448	3,470
Poland	37,600	37,300	38,100	37,700	40,500	44,400
Portugal	25	43	220	193	150	1,688
Roumania (b) (g) ..	11,000	12,000	12,000	12,000	15,000	20,000
Spain	78,449	69,877	61,212	57,363	55,745	61,406
Sweden	62,963	66,715	69,904	66,404	67,861	69,766
U.S.S.R. (b) (g) ..	370,000	400,000	400,000	400,000	410,000	410,000
Yugoslavia	95,153	100,383	99,972	99,991	104,571	101,006
Algeria	9,230	8,897	(g) 8,000	9,514	10,275	4,872
Congo (Republic of) ..	1,458	329	325	2,135	(e) 2,800	(e) 3,500
Egypt (e)	35	530	500	—	—	15
Morocco	86,874	88,681	72,804	70,164	75,893	78,360
South Africa	91	5	14	—	3	—
South West Africa ..	62,000	73,038	81,000	94,730	86,000	85,000
Tunisia	16,560	12,864	13,620	12,450	15,620	13,965
Greenland	9,021	795	—	—	—	—
Guatemala (f)	8,445	953	735	(e) 500	668	460
Honduras	6,037	5,823	(e) 8,200	7,366	9,502	10,899
Mexico (f)	178,462	190,245	186,986	172,063	167,406	179,195
United States (f) ..	233,858	211,568	226,222	255,366	268,880	292,293
Argentina	27,971	r 29,113	26,047	25,515	29,178	31,000
Bolivia (h)	20,002	18,184	19,622	16,951	16,404	n.a.
Brazil (e)	13,700	15,000	17,100	14,500	14,500	22,000

(a) Excluding native production.

(b) Smelter.

(c) Exports.

(d) Lead in base bullion plus recoverable lead in ores exported.

(e) United States Bureau of Mines' estimate.

(f) Amount estimated as recoverable.

(g) Estimated.

(h) Exports of ore (metal content) and metal.

PRODUCTION OF LEAD ORE (cont.)

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Chile	2,007	1,378	1,135	989	1,000	1,000
Colombia	889	(c) 392	295	476	453	588
Ecuador	109	122	159	137	112	68
Peru (a)	134,244	126,152	144,882	148,294	151,906	142,474
Burma	16,500	20,000	19,700	18,500	n.a.	n.a.
China (d)	90,000	90,000	100,000	100,000	100,000	100,000
Iran (d) (e)	14,500	10,000	10,000	r 15,000	17,000	20,000
Japan	45,549	52,611	51,884	53,218	54,062	62,099
Korea (South)	850	1,400	1,900	3,300	4,400	6,800
Korea (North) (b)	50,000	50,000	50,000	r 55,000	60,000	60,000
Philippine Republic	99	81	70	r 102	102	49
Thailand	2,300	2,500	2,200	3,600	5,500	6,600
Turkey	3,159	3,838	976	1,600	1,655	921
TOTAL	1,900,000	1,900,000	1,900,000	2,000,000	2,000,000	2,100,000
WORLD'S TOTAL	2,400,000	2,500,000	2,600,000	2,500,000	2,700,000	2,800,000

(a) Amount estimated as recoverable.

(b) Estimated.

(c) Imports into the United States.

(d) United States Bureau of Mines' estimate.

(e) Years ended March 20 of year following that stated.

METAL PRODUCTION OF LEAD

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom (h) ..	24,784	29,152	27,942	24,428	22,594	15,890
Zambia	15,139	14,592	19,300	12,953	21,008	18,464
Canada	153,422	135,908	138,393	135,154	166,504	165,063
India	3,606	2,804	3,481	3,567	2,347	2,599
Australia (c) ..	210,354	263,235	305,266	281,404	260,213	267,227
TOTAL	407,305	455,691	494,382	457,506	472,666	469,243
OTHER COUNTRIES						
Austria (b)	11,260	11,031	8,820	11,962	11,648	9,509
Belgium (b)	98,312	91,685	96,878	82,001	109,008	91,196
Bulgaria	40,267	43,019	50,521	86,118	91,946	(d) 89,500
Czechoslovakia (a) ..	9,000	14,000	15,000	15,000	20,000	20,000
France	69,705	69,452	76,401	88,372	96,803	106,922
Germany—Federal ..	123,539	125,363	108,496	105,805	102,388	107,894
do. East (a) (b) ..	25,000	25,000	25,000	25,000	25,000	25,000
Greece	2,917	4,392	3,500	5,000	(d) 5,100	5,400
Hungary	1,000	500	400	200	200	(d) 200
Italy	42,332	38,127	41,275	r 37,576	38,803	52,709
Norway	—	—	—	4,000	1,700	n.a.
Poland	39,200	40,100	38,300	40,800	40,700	42,800
Portugal	1,485	1,988	1,100	1,344	1,287	1,041
Roumania (a)	11,000	12,000	12,000	12,000	15,000	20,000
Spain	76,498	71,131	61,103	57,078	52,965	52,171
Sweden	38,166	38,158	40,124	39,725	39,614	43,000
U.S.S.R. (a)	370,000	400,000	400,000	400,000	410,000	410,000
Yugoslavia	88,973	96,379	102,529	99,489	99,901	95,985
Morocco	24,102	23,762	18,464	18,541	16,960	18,479
South West Africa ..	—	—	1,783	47,040	64,992	74,087
Tunisia	18,160	15,578	12,600	11,890	14,000	14,000
Guatemala	55	62	46	74	112	212
Mexico	187,356	178,734	179,438	167,321	169,677	178,238
United States (e) ..	401,397	335,736	352,439	401,276	373,430	393,513
Argentina	26,100	24,000	23,621	22,637	31,495	21,652
Bolivia (f)	4	—	—	1	67	n.a.
Brazil	12,379	13,423	r 15,740	12,995	5,232	9,781
Chile	472	250	217	—	—	—
Peru	75,226	67,282	79,845	88,307	85,436	87,360
Burma	15,514	17,110	17,458	17,768	(d) 18,000	(d) 18,000
China (a) (b)	85,000	85,000	85,000	r 100,000	100,000	100,000
Iran (g)	1,283	393	(d) 500	369	(d) 400	(d) 400
Japan	74,532	86,371	93,237	97,788	106,637	116,710
Korea (North) (a) ..	40,000	40,000	40,000	r 45,000	50,000	50,000
Turkey	623	627	1,851	1,929	904	500
TOTAL	2,000,000	2,000,000	2,000,000	2,100,000	2,200,000	2,300,000
WORLD'S TOTAL ..	2,400,000	2,400,000	2,500,000	2,600,000	2,600,000	2,700,000

(a) Estimated.

(b) Including secondary metal.

(c) Including lead in base bullion as follows:

Year	Long tons	Year	Long tons
1961	48,090	1964	78,304
1962	73,110	1965	66,907
1963	80,661	1966	74,295

(d) United States Bureau of Mines' estimate.

(e) In addition the recovery of secondary lead was as follows:

Year	Long tons	Year	Long tons
1961	404,279	1964	483,555
1962	396,609	1965	514,214
1963	440,599	1966	511,459

(f) Exports.

(g) Years ended March 20 of year following that stated.

(h) Source: British Bureau of Non-Ferrous Metal Statistics.

EXPORTS OF LEAD, ETC.*

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Unwrought	25,913	32,076	38,657	35,781	37,599	34,959
do. alloys	3,086	3,570	3,657	3,729	4,810	8,013
Semi-manufactures (a)	2,489	2,049	1,963	1,887	1,827	1,740
White lead	2,140	3,614	1,690	1,510	1,146	1,992
Red lead, etc	3,876	3,928	4,050	4,269	4,699	4,757
Nigeria—						
Ore and concentrates	522	610	195	938	1,575	1,282
Tanzania—						
Concentrates						
(Pb content)	345	—	—	—	—	—
Zambia (c)—						
Ore	15	—	—	—	—	—
Unwrought	10,951	13,916	14,029	13,177	15,401	24,265
Canada—						
Ore (Pb content)	63,363	53,120	47,996	71,747	95,504	100,834
Unwrought	105,033	112,323	86,736	85,596	115,237	95,061
Scrap (a)	2,238	1,589	3,561	4,712	8,214	4,005
Hong Kong—						
Unwrought (a)	—	20	—	—	—	—
Scrap	225	45	13	4	110	379
Singapore—						
Semi-manufactures (a)	52	141	147	193	214	368
Australia (b)—						
Ores and concentrates						
(Pb content)	60,655	59,802	106,289	95,928	74,104	69,464
Base bullion (Pb content)	53,365	46,140	77,564	82,715	56,380	89,140
Unwrought	127,055	199,942	169,264	169,035	151,211	159,811
do. alloys	4,933	1,390	1,495	6,829	2,701	4,370
Scrap (a)	531	6	73	2,547	2,575	1,642
Semi-manufactures	1,140	351	1,106	2,226	2,881	1,248
Red and white lead, etc.	2,061	2,468	2,373	1,981	2,503	2,072
Irish Republic—						
Ore and concentrates	1,249	—	—	—	—	87,178
Scrap	196	912	283	310	871	796
OTHER COUNTRIES						
Austria—						
Unwrought (a)	2,829	2,680	1,733	3,751	2,719	1,950
Scrap	10	—	6	14	19	1
Red and white lead, etc.	961	611	1,078	655	170	1,522
Belgium-Luxemburg						
E.U.—						
Ore	—	—	7	590	259	6,418
Unwrought	53,613	57,781	63,833	41,769	61,598	49,832
do. alloys	2,492	2,923	5,610	7,061	9,078	6,219
Scrap	1,191	2,031	2,088	3,298	2,204	2,228
Semi-manufactures (a)	6,479	6,994	6,351	6,209	7,739	7,986
Red and white lead, etc.	4,547	4,922	4,406	3,682	3,605	5,147

*In these tables the description "unwrought" lead corresponds to item 685.1 of the Standard International Trade Classification (Revised) and comprises base bullion, pigs, unwrought bars, etc. "Semi-manufactures" corresponds to S.I.T.C.(R). 685.2 and includes foil and powder as well as wrought bars, wire, sheets, tubes, pipes, etc.

(a) Including alloys.

(b) Years ended June 30 of that stated.

(c) Figures for the years 1961 to 1963 relate to Rhodesia and Nyasaland.

EXPORTS OF LEAD, ETC. (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES (cont.)						
Denmark—						
Unwrought	5,230	1,091	1,443	2,623	3,209	2,882
do. alloys	3,251	3,267	2,566	2,188	1,403	2,762
Scrap	—	—	—	—	5	—
Semi-manufactures (a)	168	218	314	303	272	144
Finland—						
Unwrought (a) ..	124	57	2	67	—	1
France—						
Ore	8,367	4,837	123	4,976	3,130	1,613
Unwrought	4,699	3,408	2,792	3,316	10,532	6,229
do. alloys	1,382	1,993	1,340	2,570	4,156	2,849
Scrap	1,642	7,432	8,237	9,568	11,939	2,240
Semi-manufactures (a)	1,148	757	709	1,376	1,137	988
Red and white lead, etc.	4,850	4,809	4,897	6,334	5,784	7,073
Germany (Federal)—						
Ore	—	5	10,054	941	6,918	3,870
Unwrought (a) ..	25,271	22,482	17,684	21,251	12,629	40,897
Scrap (a)	2,770	5,066	8,690	9,215	14,639	25,620
Semi-manufactures (a)	4,293	3,268	2,950	3,855	5,432	8,678
Red and white lead ..	10,725	9,884	9,943	9,334	8,147	7,963
Greece—						
Ore	14,185	12,066	9,430	6,800	10,273	10,088
Unwrought	8	—	—	—	—	n.a.
Italy—						
Ore	r 4,984	5,442	4,370	r 5,321	4,588	2,860
Unwrought (a) ..	4	89	112	r 190	125	101
Semi-manufactures (a)	r 183	r 46	400	r 53	61	153
Red and white lead ..	1,378	r 1,586	942	1,371	1,546	1,678
Netherlands—						
Unwrought	7,243	5,859	5,381	7,243	7,595	7,912
do. alloys	1,072	1,207	1,843	1,827	2,088	3,516
Scrap (a)	3,178	2,683	3,196	8,297	7,484	4,599
Semi-manufactures (a)	2,994	2,477	2,882	1,817	1,230	2,006
Red and white lead ..	1,520	2,038	1,664	1,502	1,467	2,406
Norway—						
Ore	3,386	5,070	3,378	7,338	5,810	7,293
Unwrought (a) ..	481	251	183	171	354	576
Semi-manufactures (a)	192	341	412	338	275	255
Scrap	2,356	2,369	2,692	3,297	2,898	2,944
Poland—						
Concentrates	n.a.	n.a.	5,814	6,042	12,170	16,025
Portugal—						
Unwrought (a) ..	8	5	11	13	34	31
Semi-manufactures (a)	20	22	37	52	88	100
Red and white lead ..	42	41	10	133	72	98
Spain—						
Ore	1,165	533	20	—	—	—
Unwrought (a) ..	35,795	28,791	11,444	1,879	312	153
Semi-manufactures (a)	39	152	42	32	20	19
Sweden—						
Ore	22,443	41,966	41,385	48,282	40,814	44,141
Unwrought	14,306	12,686	11,820	6,396	8,109	9,795
do. alloys	1,576	1,567	2,111	1,766	905	200
Scrap	167	52	170	238	158	91
Semi-manufactures (a)	196	233	27	19	25	38
Red and white lead, etc.	1,606	1,352	1,469	1,879	1,572	1,506
Switzerland—						
Unwrought	6	1	15	854	345	36
Scrap	2,092	2,377	3,405	6,929	10,452	5,396
Semi-manufactures ..	78	101	105	83	133	160
U.S.S.R.—						
Unwrought	100,700	92,900	108,500	94,600	100,900	86,500

(a) Including alloys.

EXPORTS OF LEAD, ETC. (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Yugoslavia—						
Unwrought	50,128	51,251	51,766	52,577	53,289	51,591
do. alloys	1,260	863	828	4,437	4,907	6,587
Semi-manufactures (a)	6,715	14,424	7,652	4,971	2,921	2,309
Red lead	245	411	695	736	704	1,012
Algeria—						
Ore	12,405	11,972	11,867	10,868	12,594	8,210
Congo (Republic of)—						
Ore	2,603	—	—	<i>n.a.</i>	—	—
Morocco—						
Ore	96,789	91,975	135,410	94,272	140,943	87,463
Unwrought	23,411	23,758	11,034	16,806	13,930	<i>n.a.</i>
do. alloys	39	20	2,760	—	48	<i>n.a.</i>
Scrap	32	—	—	20	40	<i>n.a.</i>
South Africa—						
Unwrought	67	36	375	37,181	57,076	58,908
Semi-manufactures ..	2	—	<i>n.a.</i>	96	65	27
South West Africa—						
Complex concentrates						
(Pb content)	57,386	69,115	67,008	34,977	36,143	20,287
Lead-vanadium						
concentrates	8,296	7,594	10,510	10,548	9,762	12,286
Tunisia—						
Unwrought (a)	18,745	14,993	13,069	10,653	14,076	12,797
Scrap	415	329				
Greenland—						
Ore	12,567	2,290	—	—	—	—
Guatemala—						
Ore	15,139	2,929	1,392	902	29	851
Honduras—						
Ore and concentrates ..	7,847	8,438	9,743	10,223	15,452	8,236
Mexico—						
Ores and concentrates..	3,897	4,344	2,894	3,125	<i>n.a.</i>	2,454
Unwrought—						
Refined	148,155	121,557	122,433	91,943	95,199	97,003
Base bullion	17,385	10,408	11,752	10,983	10,202	14,991
Antimonial	1,578	335	368	363	<i>n.a.</i>	127
Semi-manufactures ..	—	—	—	375	<i>n.a.</i>	—
Red and white lead ..	18,151	22,356	29,114	32,131	32,836	31,048
United States—						
Ore, mattes and base						
bullion (Pb content) ..	3,961	2,588	4	17	<i>n.a.</i>	<i>n.a.</i>
Unwrought (a)	1,904	1,882	972	9,470	5,143	3,114
Scrap	4,610	2,197	2,162	11,739	3,387	444
Semi-manufactures (a)	611	836	710	1,189	1,830	1,739
Red and white lead, etc.	2,056	1,714	<i>n.a.</i>	1,500	2,041	2,321
Argentina—						
Ore	—	—	266	309	150	215
Unwrought	—	1	2	—	—	—
Bolivia—						
Ore, etc. (Pb content) ..	19,998	18,184	19,622	16,950	16,337	20,927
Unwrought	4	—	—	1	67	<i>n.a.</i>
Brazil—						
Ore	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	12,721	4,921
Chile—						
Ore and concentrates ..	2,850	2,128	2,819	<i>n.a.</i>	433	<i>n.a.</i>
Colombia—						
Ore	—	—	—	216	714	1,117
Ecuador—						
Concentrates	410	<i>n.a.</i>	997	2,455	696	<i>n.a.</i>

(a) Including alloys.

EXPORTS OF LEAD, ETC. (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Peru—						
Ore and concentrates						
<i>(Pb content)</i>	64,481	125,901	64,496	63,604	64,523	64,865
Unwrought (<i>Pb content</i>)						
Refined	75,510	71,734	54,103	100,451	84,052	79,553
Unrefined	221	224	37	48	53	n.a.
Burma—						
Ore	396	450	576	360	162	n.a.
Unwrought	12,363	18,643	16,579	11,263	11,778	n.a.
do. alloys	327	468	486	854	227	n.a.
Iran (<i>b</i>)—						
Ore	20,938	30,045	28,048	43,590	50,737	44,225
Japan—						
Unwrought (<i>a</i>)	73	68	108	313	8,406	7,430
Semi-manufactures (<i>a</i>)	813	339	3,727	968	2,947	325
Red and white lead ..	18	(c) 17	(c) 4	(c) 12	(c) 219	(c) 283
Korea (South)—						
Ore	1,596	1,420	4,903	10,817	6,978	11,586
Thailand—						
Ore	5,002	4,262	4,998	7,022	10,367	12,209
Turkey—						
Ore	2,313	2,411	5,008	2,500	1,476	984

(a) Including alloys.

(b) Years ended March 20 following that stated.

(c) Excluding white lead.

IMPORTS OF LEAD, ETC.*

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore and concentrates (Pb content) (c) ..	22,939	26,647	25,404	29,258	20,829	21,983
Unwrought (a) ..	179,865	180,282	179,622	189,767	169,170	203,863
Scrap (a) ..	886	2,135	1,593	4,173	2,672	2,821
Semi-manufactures (a)	475	203	232	202	17	77
Channel Islands—						
Unwrought and semi-manufactures (a) ..	150	139	78	1,262	184	111
Ghana—						
Unwrought (a) ..	52	40	18	3	10	4
Semi-manufactures (a)	291	235	383	36	455	1,330
Kenya—						
Unwrought (a) ..	80	119	104	94	200	197
Semi-manufactures (a)	10	17	7	10	1	10
Mauritius—						
Unwrought (a) ..	10	6	1	28	13	24
Semi-manufactures (a)	37	34	25	29	28	36
Nigeria—						
Unwrought and semi-manufactures (a) ..	505	1,179	414	1,123	519	149
Rhodesia (d)—						
Semi-manufactures (a)	106	67	84	728	836	n.a.
Red and white lead, etc.	137	127	117	n.a.	n.a.	n.a.
Sierra Leone—						
Semi-manufactures (a)	92	45	36	30	44	44
Tanzania—						
Unwrought (a) ..	11	21	64	22	55	26
Semi-manufactures (a)	7	10	6	6	3	11
Uganda—						
Unwrought (a) ..	10	24	8	43	56	105
Semi-manufactures (a)	6	9	5	12	14	12
Barbados—						
Unwrought (a) ..	—	11	4	10	(b) 56	(b) 25
Semi-manufactures (a)	51	35	80	63	107	117
Jamaica—						
Unwrought (a) ..	80	110	134	156	111	47
Semi-manufactures (a)	71	53	76	85	93	76
Trinidad and Tobago—						
Unwrought (a) ..	14	2	9	4	7	2
Semi-manufactures (a)	39	46	119	108	39	56
Red and white lead, etc.	16	13	9	13	13	11
Canada—						
Unwrought ..	1,001	516	1,555	65	63	559
Scrap ..	83	41	49	n.a.	n.a.	n.a.
Semi-manufactures, etc.	56	61	87	n.a.	230	203
Red and white lead, etc.	1,008	921	1,122	1,357	1,058	1,342
Guyana—						
Semi-manufactures (a)	29	19	n.a.	17	34	47
Ceylon—						
Unwrought (a) ..	100	156	428	243	543	364
Semi-manufactures (a)	59	91	4	34	128	17
Cyprus—						
Semi-manufactures (a)	125	164	63	81	62	277
Hong Kong—						
Unwrought (a) ..	28	r(b) 166	r(b) 409	(b) 355	52	366
Scrap ..	11	1	19	19	16	20
Semi-manufactures (a)	162	106	112	227	117	190

*See footnote on p. 178 concerning the descriptions "unwrought" lead and "semi-manufactures" used in these tables.

(a) Including alloys.

(b) Excess of re-exports.

(c) Source: British Bureau of Non-Ferrous Metal Statistics.

(d) Figures for the years 1961 to 1963 relate to Rhodesia and Nyasaland.

IMPORTS OF LEAD, ETC. (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES (cont.)						
India (b)—						
Ore	79	30	9	6	27	17
Unwrought	27,781	33,088	35,955	32,514	33,833	47,750
do. alloys	284	346	511	732	324	1,225
Semi-manufactures (a)	405	96	166	322	499	323
Malaysia (West)—						
Unwrought (a) ..	n.a.	n.a.	n.a.	n.a.	185	184
Semi-manufactures (a)	n.a.	n.a.	n.a.	n.a.	867	440
Pakistan—						
Ore	438	233	255	333	n.a.	n.a.
Unwrought (a) ..	1,448	n.a.	1,126	6,063	n.a.	n.a.
Semi-manufactures (a)	248	n.a.	15	96	n.a.	n.a.
Litharge, red and white lead, etc.	561	148	124	90	n.a.	n.a.
Sabah—						
Semi-manufactures (a)	25	24	90	31	45	38
Singapore—						
Semi-manufactures (a)	79	118	135	88	135	177
Australia (c)—						
Unwrought and semi-manufactures (a) ..	2,395	4,296	2,283	235	440	(d) 69
Red and white lead, etc.	162	137	97	108	170	167
Fiji—						
Unwrought and semi-manufactures (a) ..	47	78	80	89	79	52
New Zealand—						
Unwrought (a) ..	5,215	4,379	(c) 5,099	{(c) 5,773	(c) 6,110	(c) 7,280
Semi-manufactures (a)	6	111	(c) 1,156	{(c) 179	(c) 28	(c) 56
Red and white lead, etc.	1,030	1,056	(c) 1,156	(c) 502	(c) 487	(c) 955
Irish Republic—						
Unwrought (a) ..	497	493	614	420	364	330
Semi-manufactures (a)	77	44	87	92	97	100
OTHER COUNTRIES						
Austria—						
Ore	4,577	4,217	3,642	5,354	4,458	2,559
Unwrought (a) ..	10,277	12,647	12,698	12,027	12,244	12,700
Scrap	233	65	43	449	489	1,101
Semi-manufactures (a)	243	232	306	389	198	222
Belgium-Luxemburg						
E.U.—						
Ore	152,380	149,660	123,621	100,008	194,331	181,622
Unwrought	13,954	19,048	18,028	16,210	13,860	13,112
do. alloys	169	754	670	773	544	436
Scrap	4,599	3,522	3,988	17,441	20,634	13,289
Semi-manufactures (a)	508	632	812	823	900	1,327
Red and white lead, etc.	1,050	1,139	1,069	1,268	1,627	2,318
Denmark—						
Unwrought	18,878	15,412	13,147	13,819	13,679	12,699
do. alloys	107	308	581	1,199	592	1,424
Scrap	3,692	3,789	3,631	4,574	5,411	5,705
Semi-manufactures (a)	294	625	871	794	719	526
Red and white lead ..	1,988	1,637	1,540	1,485	513	517

(a) Including alloys.

(c) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

(d) Owing to reclassification not strictly comparable with earlier years.

IMPORTS OF LEAD, ETC. (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Finland—						
Unwrought (a) ..	10,904	10,655	15,254	10,853	10,063	14,165
Semi-manufactures (a)	1,275	969	685	643	541	1,213
Red and white lead, etc.	443	548	570	514	570	530
France—						
Ore	90,894	96,096	130,182	141,813	128,328	119,109
Unwrought	63,602	63,725	64,404	54,729	26,121	32,679
do. alloys	1,858	2,602	2,316	2,516	1,543	2,162
Scrap	3,034	2,313	3,938	1,425	2,902	4,082
Semi-manufactures (a)	101	164	136	343	475	687
Red and white lead, etc.	2,110	2,511	2,764	2,172	2,605	2,129
Germany (Federal)—						
Ore	144,394	142,462	107,473	107,333	137,294	185,610
Unwrought (a) ..	75,330	98,382	98,974	98,468	114,835	86,638
Scrap (a)	1,243	1,265	1,226	10,184	5,470	1,571
Semi-manufactures (a)	470	1,214	1,815	2,115	2,025	2,090
Red and white lead, etc.	4,419	4,429	3,355	3,613	3,739	2,817
Greece—						
Ore	1,827	5,010	4,203	3,887	6,823	n.a.
Unwrought	453	r 1,722	r 495	286	967	2,644
Semi-manufactures (a)	66	86	185	90	345	n.a.
Red and White lead ..	391	553	553	595	474	n.a.
Hungary—						
Unwrought	11,020	10,286	10,951	12,231	n.a.	n.a.
Iceland—						
Unwrought	224	278	255	262	232	142
Semi-manufactures (a)	32	30	70	85	72	100
Red and white lead ..	21	11	19	14	7	6
Italy—						
Ore	r 8,821	r 8,027	20,635	r 9,218	32,244	19,677
Unwrought (a) ..	r 38,614	r 47,189	38,350	r 36,047	29,778	45,113
Scrap	r 13,126	20,298	21,044	r 15,969	30,384	24,598
Semi-manufactures (a)	r 2,823	r 4,656	3,752	r 3,251	3,177	2,578
Red and white lead ..	642	2,158	3,839	r 4,251	3,677	2,894
Netherlands—						
Ore	1	3	2	—	707	5
Unwrought	41,707	39,738	31,846	35,948	42,145	39,441
do. alloys	13,853	10,007	8,086	12,270	12,681	11,539
Scrap (a)	1,287	1,178	3,649	5,098	3,402	2,930
Semi-manufactures (a)	2,592	2,322	2,672	3,037	3,063	2,992
Red and white lead ..	5,952	6,545	4,029	4,414	4,291	4,180
Norway—						
Unwrought	8,454	7,990	9,348	8,017	7,617	8,699
do. alloys	1,224	1,381	1,692	2,129	1,720	2,507
Semi-manufactures (a)	1,083	1,334	1,041	1,096	1,272	1,416
Red and white lead ..	700	714	847	785	936	1,025
Poland—						
Unwrought	14,800	n.a.	13,352	20,532	19,163	17,122
Portugal—						
Unwrought (a) ..	6,593	6,385	7,784	8,909	6,665	8,277
Scrap	37	47	44	94	73	131
Semi-manufactures (a)	12	4	10	26	72	77
Red and white lead, etc.	172	145	119	86	93	59
Spain—						
Ore	—	—	—	—	210	3,708
Unwrought	20	20	1	1,632	22,706	13,601
Scrap	61	12	15	29	415	887
Red and white lead ..	233	232	350	495	223	95
Sweden—						
Unwrought	8,688	11,782	6,957	6,382	6,711	6,079
do. alloys	1,264	893	1,133	680	836	774
Scrap	325	307	584	409	655	—
Semi-manufactures (a)	1,619	2,333	2,038	2,160	1,973	1,828
Red and white lead ..	1,402	1,711	1,404	1,569	2,302	1,787

(a) Including alloys.

IMPORTS OF LEAD, ETC. (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Switzerland—						
Unwrought	21,917	23,738	19,529	21,063	23,547	20,593
Semi-manufactures ..	683	677	560	439	329	509
Red and white lead ..	715	631	598	770	823	318
U.S.S.R.—						
Unwrought	38,900	25,700	38,200	49,100	47,100	30,600
Yugoslavia—						
Ore	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	12,536
Unwrought	<i>n.a.</i>	738	2,998	1,546	312	1,564
Scrap	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	2,194	2,225	3,413
Angola—						
Semi-manufactures ..	59	59	74	85	138	124
Red and white lead ..	38	39	54	50	39	48
Egypt—						
Unwrought and scrap ..	4,427	5,993	5,241	5,529	1,357	2,795
Semi-manufactures ..	40	37	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Red and white lead ..	678	1,757	<i>n.a.</i>	1,104	1,269	<i>n.a.</i>
Malagasy Republic—						
Unwrought (a)	66	81	126	112	123	211
Semi-manufactures (a) ..	21	58	50	33	51	48
Red and white lead ..	11	18	25	17	11	10
Morocco—						
Semi-manufactures (a) ..	58	86	90	48	36	<i>n.a.</i>
Red and white lead ..	152	160	110	105	173	<i>n.a.</i>
Mozambique—						
Semi-manufactures (a) ..	132	35	109	120	144	148
Red and white lead ..	26	27	42	35	24	37
South Africa—						
Unwrought	11,922	13,431	15,241	9,624	8,471	4,631
Semi-manufactures ..	27	75	48	98	1,408	2,610
Red and white lead ..	106	89	80	(b) 72	(b) 74	(b) 47
Sudan—						
Semi-manufactures ..	24	41	144	300	129	144
Tunisia—						
Ore	3	1	8	6	<i>n.a.</i>	<i>n.a.</i>
Costa Rica—						
Unwrought (a)	23	54	183	40	79	34
Mexico—						
Unwrought	9	7	9	10	14	9
Nicaragua—						
Unwrought	14	35	50	90	133	210
Salvador—						
Unwrought	36	100	101	56	46	113
Semi-manufactures ..	156	89	88	135	223	213
United States—						
Ore, matte and flue dust (Pb content)	122,196	118,821	120,040	114,345	115,119	57,009
Bullion and base bullion (Pb content)	211	1,860	3,355	6,371	505	1,721
Unwrought (Pb content) do. alloys (Pb content)	220,828	230,273	196,784	183,530	199,519	255,168
Scrap (Pb content) ..	6,405	7,626	3,966	4,988		
Semi-manufactures ..	3,477	1,856	13,764	1,674	3,182	3,102
Red and white lead, etc.	2,540	2,032	2,169	2,890	1,828	1,888
Argentina—						
Unwrought	<i>n.a.</i>	801	3,249	1	3	2
Brazil—						
Unwrought	13,283	7,953	15,585	4,149	2,136	5,466
do. alloys	28					
Red and white lead ..	1,008	354	1,771	425	266	520

(a) Including alloys.

(b) Red lead only.

IMPORTS OF LEAD, ETC. (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
(cont.)						
Chile—						
Unwrought	296	724	1,536	n.a.	1,756	n.a.
Bars and sheets	5	182	122	n.a.	—	n.a.
Red and white lead	151	196	209	n.a.	97	n.a.
Colombia—						
Unwrought (a)	1,204	228	1,275	1,383	468	2,301
Semi-manufactures (a)	97	11	43	30	109	194
Red and white lead	514	767	998	1,102	638	1,130
Ecuador—						
Unwrought	193	152	176	162	209	n.a.
Red and white lead	121	93	106	126	123	n.a.
Peru—						
Semi-manufactures (a)	103	48	89	51	30	33
Red and white lead	52	40	47	12	34	7
Uruguay—						
Unwrought	n.a.	n.a.	n.a.	n.a.	907	809
Red and white lead, etc.	n.a.	n.a.	n.a.	n.a.	164	270
Venezuela—						
Unwrought	1,861	1,855	2,767	2,721	1,666	4,352
Semi-manufactures	201	268	147	315	490	711
Red and white lead	1,496	1,575	1,140	656	1,075	697
Burma—						
Semi-manufactures (a)	36	62	5	5	—	n.a.
Formosa—						
Unwrought (a)	1,205	1,873	2,481	2,443	3,129	3,656
Semi-manufactures (a)	50	24	84	142	74	23
Red and white lead, etc.	95	91	41	25	50	51
Indonesia—						
Unwrought and scrap	3,338	n.a.	n.a.	n.a.	n.a.	n.a.
Semi-manufactures (a)	596	n.a.	n.a.	n.a.	n.a.	n.a.
Red and white lead	797	n.a.	n.a.	n.a.	n.a.	n.a.
Iran (b)—						
Unwrought	43	38	59	367	1,047	2,658
Semi-manufactures	28	177	26	59	43	29
Red and white lead	n.a.	376	506	692	662	840
Iraq—						
Semi-manufactures	46	24	58	7	n.a.	n.a.
Israel—						
Unwrought	824	1,314	904	1,131	1,111	1,284
Scrap	201	311	14	65	24	9
Semi-manufactures	222	100	192	125	695	389
Red and white lead	355	538	581	691	683	n.a.
Japan—						
Ore	68,090	38,005	67,565	50,886	66,185	79,753
Unwrought	43,590	25,781	23,802	67,896	37,665	22,655
Scrap	856	781	873	1,409	2,911	470
Semi-manufactures (a)	3	4	13	—	34	21
Red and white lead	—	1	1	5	4	7
Jordan—						
Unwrought	189	275	281	n.a.	222	772
Red lead	n.a.	n.a.	n.a.	n.a.	117	158
Korea (South)—						
Unwrought and semi-manufactures	n.a.	n.a.	3,625	527	1,492	3,551
Lebanon—						
Unwrought	398	274	299	499	655	953
Semi-manufactures (a)	273	75	43	40	31	73
Philippine Republic—						
Unwrought (a)	1,638	3,577	1,911	1,972	3,181	n.a.
Semi-manufactures (a)	490	364	112	421	409	n.a.
Red and white lead	1,390	473	393	96	525	n.a.
Syria—						
Unwrought	664	n.a.	594	351	263	218
Red and white lead	n.a.	n.a.	n.a.	112	114	120

(a) Including alloys.

(b) Years ended March 20 of year following that stated.

IMPORTS OF LEAD, ETC. (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Thailand—						
Unwrought (a) ..	643	1,023	674	816	969	1,340
Semi-manufactures (a) ..	66	48	130	100	216	102
Turkey—						
Unwrought (a) ..	549	2,103	2,303	1,432	16	2,517
Scrap	65	73	93	49	65	156
Semi-manufactures (a) ..	296	99	16	5	6	18
Red and white lead ..	94	450	548	289	119	377

(a) Including alloys.

LITHIUM MINERALS
PRODUCTION OF LITHIUM MINERALS

Long tons

Producing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Rhodesia—						
Amblygonite	77	31	46	—	(b) —	n.a.
Eucryptite	1,678	773	1,039	720	(b) 476	n.a.
Lepidolite	21,462	18,967	14,426	20,485	(b) 11,867	n.a.
Petalite	24,730	19,379	26,738	32,544	(b) 20,034	n.a.
Spodumene	1,453	1,336	1,996	6,219	(b) 10,278	n.a.
Uganda—						
Amblygonite	23	20	47	—	20	(a) 70
Canada—						
Lithium minerals (Li ₂ O content)	239	223	288	472	452	109
Australia—						
Petalite	96	84	390	208	310	} 933
Amblygonite	24	28	20	—	—	
Spodumene	5	24	22	52	—	
OTHER COUNTRIES						
Spain—						
Amblygonite	17	—	—	—	—	—
Mozambique—						
Lepidolite	151	270	102	—	75	n.a.
Rwanda and Burundi—						
Amblygonite	1,655	321	362	290	—	n.a.
South Africa—						
Spodumene	232	1,128	372	160	855	301
South West Africa—						
Amblygonite	121	126	115	12	35	27
Lepidolite	1,266	1,590	77	363	266	326
Petalite	2,268	899	772	712	1,189	1,200
Argentina—						
Lithium minerals	396	443	1,413	713	612	276
Brazil—						
Amblygonite (a)	—	—	—	—	25	—
Spodumene (a)	—	148	25	—	6,707	98
Surinam—						
Amblygonite (a)	424	738	507	n.a.	n.a.	n.a.

Lithium minerals are also produced in the United States and lithium chemicals recovered from Searles Lake brines in California.

(a) Exports.

(b) January to September only.

EXPORTS OF LITHIUM MINERALS

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Rhodesia (a)—						
Lithium minerals	29,056	29,203	35,931	66,325	49,932	n.a.
Uganda—						
Amblygonite	n.a.	50	—	20	—	70
Australia (b)—						
Lithium minerals	n.a.	n.a.	n.a.	—	—	345
OTHER COUNTRIES						
Germany (Federal)—						
Lithium minerals	n.a.	331	406	621	606	243
Mozambique—						
Lepidolite	151	270	102	n.a.	75	n.a.
South Africa—						
Lithium minerals	50	916	380	335	409	486
South West Africa—						
Amblygonite	68	130	176	—	597	12
Lepidolite	822	1,318	281	484	152	534
Petalite	2,104	310	681	1,028	991	1,185
Brazil—						
Amblygonite	—	—	—	—	25	—
Spodumene	—	148	25	—	6,707	98
Surinam—						
Amblygonite	424	738	507	n.a.	n.a.	n.a.

(a) Figures for years 1961 to 1963 relate to Rhodesia and Nyasaland.

(b) Years ended June 30 of that stated.

IMPORTS OF LITHIUM MINERALS*

Long tons

Importing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom (a)	4,000	3,400	4,300	10,300	7,000	n.a.
OTHER COUNTRIES						
Belgium-Luxemburg E.U.	n.a.	164	118	90	227	311
France	n.a.	n.a.	n.a.	n.a.	n.a.	4,602
Germany (Federal)	9,814	10,307	9,809	14,701	10,766	9,667
Italy	n.a.	17	407	2,347	3,551	12,796
Netherlands (a)	5,100	3,000	3,200	4,400	6,500	n.a.
Spain	16	9	57	60	130	241
United States	23,954	27,419	20,056	24,123	10,040	8,268
Japan (a)	2,000	4,000	3,100	7,000	3,500	n.a.

*Imports of lithium minerals are not separately recorded in the trade returns of most importing countries.

(a) Figures represent exports to the country stated from the principal producing countries and are not necessarily complete.

MAGNESITE AND DOLOMITE
PRODUCTION OF MAGNESITE AND DOLOMITE

Long tons

Producing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Dolomite, crude (a) ..	2,800,000	2,700,000	3,000,000	3,700,000	3,800,000	4,200,000
Kenya—						
Magnesite, crude ..	1,723	—	257	167	66	667
Rhodesia—						
Magnesite, crude ..	12,394	10,375	10,774	37,867	35,037	(e) 29,000
Dolomite	—	—	—	—	n.a.	n.a.
Tanzania—						
Magnesite, crude (c) ..	42	—	84	487	1,025	1,079
Canada—						
Magnesitic dolomite (b)	n.a.	n.a.	n.a.	n.a.	69,441	n.a.
	£1,079,395	£1,143,386	£1,138,999	£1,184,739	£1,330,810	£1,305,513
Ceylon—						
Dolomite	n.a.	n.a.	n.a.	n.a.	5,004	n.a.
India—						
Magnesite, crude ..	206,431	213,938	230,861	204,652	234,936	228,000
Dolomite	710,784	856,294	1,068,300	512,901	953,000	1,022,000
Pakistan—						
Magnesite	160	300	864	607	515	(e) 490
Dolomite	346	509	n.a.	n.a.	n.a.	n.a.
Australia—						
Magnesite, crude ..	98,795	62,191	56,946	31,250	26,362	19,556
Dolomite	191,624	180,697	214,339	236,068	258,661	245,666
New Zealand—						
Magnesite, crude ..	581	635	781	603	837	557
Dolomite	3,550	5,748	4,387	9,164	7,556	13,251
OTHER COUNTRIES						
Austria—						
Magnesite—						
Crude	1,770,273	1,582,022	1,292,054	1,630,411	1,786,933	1,589,135
Caustic (d) ..	127,698	130,450	129,961	133,355	133,530	135,663
do. powder (d) ..	51,573	47,925	37,721	55,332	61,690	60,330
Dead-burned (d) ..	533,760	476,524	404,598	513,756	556,958	483,533
Bricks (d)	290,081	270,260	219,540	272,472	277,978	265,116
Belgium—						
Dolomite—						
Crude	481,940	576,760	681,420	894,140	854,020	791,233
Calcined	294,910	291,470	318,450	332,160	312,840	314,075
Finland—						
Dolomite	93,220	90,800	n.a.	n.a.	n.a.	n.a.
France—						
Dolomite, crude ..	757,558	832,941	935,076	1,102,505	1,279,800	1,363,662
Germany (Federal)—						
Dolomite	n.a.	n.a.	n.a.	133,478	276,360	159,128
Greece—						
Magnesite—						
Crude	146,047	214,522	r 262,999	354,513	(e) 350,000	(e) 370,000
Caustic (d) ..	46,343	67,585	47,335	53,977	n.a.	n.a.
Dead-burned (d) ..	23,059	28,872	41,648	46,048	n.a.	n.a.
Hungary—						
Dolomite	447,889	423,966	424,981	474,500	551,000	612,000
Italy—						
Magnesite, crude ..	6,677	8,281	6,707	6,209	3,480	2,560
Dolomite—						
Metallurgical ..	60,594	69,955	75,853	80,222	n.a.	n.a.
Refractory, etc. ..	640,583	693,604	772,818	821,303	n.a.	n.a.

(a) Estimated.

(b) Including brucite, dead-burned magnesitic dolomite and serpentine.

(c) Exports.

(d) Derived from crude shown and not additional.

(e) United States Bureau of Mines' estimate.

PRODUCTION OF MAGNESITE AND DOLOMITE (cont.)

Long tons

Producing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES (cont.)						
Norway—						
Dolomite	209,839	213,811	251,175	444,512	307,000	360,400
Poland—						
Magnesite, crude	26,672	33,600	26,200	37,400	41,300	n.a.
Portugal—						
Dolomite	2,707	3,740	3,858	5,285	2,928	4,466
Spain—						
Magnesite	81,877	70,260	83,317	91,852	n.a.	n.a.
Sweden—						
Dolomite—						
Crude	55,004	50,692	53,499	72,443	89,983	181,300
Calcined (d)	51,154	47,225	54,885	58,066	62,665	61,600
Yugoslavia—						
Magnesite, crude	268,752	367,465	405,453	489,564	517,634	518,367
South Africa—						
Magnesite, crude	60,475	91,386	96,704	83,431	85,526	91,828
Mexico—						
Dolomite	67,200	n.a.	n.a.	n.a.	n.a.	n.a.
United States—						
Magnesite—						
Crude	538,979	439,706	471,121	n.a.	n.a.	n.a.
Caustic (b) (c)	71,493	77,508	120,426	143,000	n.a.	n.a.
Dead-burned (b) (c)	534,794	514,038	636,370	751,797	800,966	760,829
Dolomite—						
Dead-burned (c)	1,770,321	1,658,427	1,740,137	1,935,288	1,942,679	1,958,069
Argentina—						
Dolomite	40,474	n.a.	n.a.	n.a.	97,074	n.a.
Brazil—						
Magnesite	75,491	92,275	88,872	92,260	122,673	125,064
Dolomite	308,109	414,673	470,259	325,169	219,684	197,363
Colombia—						
Magnesite	100	100	250	217	190	—
Dolomite	2,000	2,638	5,000	3,166	11,519	6,378
Peru—						
Dolomite	870	963	558	n.a.	n.a.	n.a.
Uruguay—						
Dolomitic limestone	11,145	692	26,383	26,512	20,091	28,483
Formosa—						
Dolomite	21,832	29,366	30,416	32,168	49,778	50,763
Iran (a)—						
Magnesite	500	n.a.	n.a.	n.a.	n.a.	n.a.
Japan—						
Dolomite	1,844,771	1,767,642	1,723,823	1,805,922	1,647,000	1,684,000
Philippine Republic—						
Dolomite	7,137	4,916	5,009	5,138	n.a.	n.a.
Turkey—						
Magnesite	2,155	9,586	17,634	38,451	74,393	64,750
Dolomite	n.a.	n.a.	n.a.	n.a.	n.a.	364,600
New Caledonia—						
Magnesite	—	1,157	12	991	743	625

Magnesite is known to have been produced in Bulgaria, Czechoslovakia, U.S.S.R., Chile, Mexico, Korea and Manchuria. Dolomite is known to have been produced in other countries. Magnesia is extracted from sea-water in the United Kingdom.

(a) Years ended March 20 of year following that stated.

(b) Derived partly from crude shown and partly from other sources, e.g. sea-water, brucite, dolomite.

(c) Sold or used by producers.

(d) Derived partly from crude shown.

PRODUCTION OF MAGNESIUM

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom (a) ..	5,200	5,000	4,600	4,700	5,300	3,700
Canada	6,817	7,871	7,951	8,351	9,025	6,059
OTHER COUNTRIES						
France	2,042	2,087	1,715	973	2,780	3,300
Germany (Federal) (b) ..	400	500	500	500	500	200
Italy	5,683	5,614	5,400	5,900	6,200	6,400
Norway	14,302	14,352	17,795	20,604	23,526	25,388
U.S.S.R. (b)	31,000	31,000	31,000	31,000	33,000	34,000
United States	36,379	61,567	67,719	70,971	72,644	71,245
Japan	2,212	2,054	2,401	2,891	3,700	5,200
WORLD'S TOTAL* ..	104,000	130,000	139,000	146,000	157,000	155,000

*Excluding magnesium known to have been produced in China.

(a) Including re-melt alloys.

(b) "Metallgesellschaft" estimate.

EXPORTS OF MAGNESITE, ETC.*

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Magnesium and alloys ..	1,807	2,013	(e) 2,967	(e) 2,324	1,740	1,208
Magnesium compounds	20,801	21,397	n.a.	n.a.	n.a.	n.a.
Rhodesia (d)—						
Crude and calcined ..	12,057	8,826	9,363	23,395	33,563	n.a.
Dolomite	n.a.	n.a.	n.a.	115	n.a.	n.a.
Tanzania—						
Crude	42	—	84	487	1,025	1,079
Canada—						
Magnesium	5,384	5,867	(£1,217,459)	(£1,311,446)	(£1,478,028)	(£1,144,942)
India (c)—						
Crude and calcined ..	30,956	31,270	34,823	37,466	50,149	43,045
Chloride	41	211	106	—	—	5
Malaysia (West)—						
Dolomite	—	n.a.	n.a.	n.a.	1,853	2,150
Singapore—						
Crude	15	132	98	638	998	988
Australia (b)—						
Crude and calcined ..	240	2,629	318	731	2,573	2,270
OTHER COUNTRIES						
Austria—						
Crude	593	761	413	754	567	406
Caustic	95,494	95,074	93,080	99,766	97,854	90,084
Dead-burned	234,126	185,998	161,699	233,223	270,915	220,432
Bricks	251,815	231,187	89,133	117,249	100,427	95,479
Dolomite	15,654	15,234	18,358	33,241	41,266	38,136
Belgium-Luxemburg						
E.U.—						
Crude	10	—	—	—	12	8
Calcined	83	25	36	43	8	218
Carbonate	—	—	4	—	63	31
Chloride	3	1	1	—	1	6
Oxide and hydroxide ..	—	1	4	1	81	2
Sulphate	48	15	25	30	22	158
Dolomite, crude ..	163,686	212,206	271,599	313,567	369,675	276,291
do. calcined ..	164,296	166,637	169,707	175,390	173,073	191,538
Czechoslovakia	114,000	116,000	101,000	142,000	190,000	204,000
France—						
Crude and calcined ..	778	810	435	216	734	225
Magnesium metal (a) ..	93	62	92	148	132	140
Carbonate	714	823	830	1,391	1,147	1,175
Chloride	1,440	2,662	1,139	1,394	1,017	567
Oxide and hydroxide ..	934	1,589	1,404	1,491	1,429	1,593
Sulphate	102	119	85	386	100	165
Dolomite, crude ..	15,347	17,085	18,725	21,108	19,575	23,347
do. calcined ..	4,685	5,835	5,346	3,750	3,821	4,108
Germany (Federal)—						
Crude and calcined ..	4,135	2,484	3,858	8,132	5,542	6,519
Magnesium metal ..	607	231	427	900	1,135	1,008
Carbonate	338	358	277	456	348	298
Chloride	19,233	33,807	63,091	72,706	70,920	77,484
Oxide and hydroxide ..	938	1,104	1,574	1,874	2,242	2,727
Sulphate	50,596	52,651	40,299	39,188	39,169	39,727
Dolomite	69,658	83,540	56,597	72,729	89,165	98,338
Kieserite	126,538	159,845	168,346	195,824	206,839	230,344
Germany (East)—						
Sulphate	21,110	20,309	20,297	21,438	24,402	28,414

* Magnesite unless otherwise stated.

(a) Including alloys and scrap.

(b) Years ended June 30 of that stated.

(c) Years ended March 31 following that stated.

(d) Figures for years 1961 to 1963 relate to Rhodesia and Nyasaland.

(e) Including scrap.

EXPORTS OF MAGNESITE, ETC. (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES (cont.)						
Greece—						
Crude	18,166	23,065	20,040	20,602	17,887	12,448
Calcined	75,464	79,637	90,249	94,053	115,634	130,549
Italy—						
Crude	r 97	r 66	19	20	20	11
Calcined	74	r 100	88	r 40	70	250
Magnesium metal including alloyed	r 4,408	r 4,491	4,100	r 5,626	5,826	4,558
Carbonate	r 109	r 128	138	147	109	74
Chloride	r 23	r 17	10	16	5	36
Oxide	317	r 252	290	348	9,191	23,563
Dolomite, crude do. calcined	r 2,202 r 7,768	r 2,313 r 8,826	} 11,344	{ r1,526 r8,889	} 8,649	} 15,068
Netherlands—						
Crude	722	775	802	1,073	1,185	1,318
Magnesium metal	177	245	362	239	289	273
Calcined	23,942	30,100	35,234	37,150	31,033	27,165
Chloride	505	452	533	672	383	284
Sulphate	889	374	716	425	493	550
Norway—						
Crude	100	—	—	—	1	—
Magnesium metal	12,157	14,526	18,889	22,748	24,608	29,946
Dolomite, crude	45,782	58,834	65,095	76,303	76,547	89,905
Poland—						
Dolomite	3,692	n.a.	2,226	2,426	2,557	2,796
Spain—						
Crude and calcined	14,715	7,733	17,571	28,620	30,382	15,793
Dolomite, crude	7,304	6,036	4,387	614	2,050	3,597
Sweden—						
Crude and calcined	291	196	193	156	202	114
Dolomite	5,286	5,793	3,836	4,373	3,662	3,923
Bricks	433	111	441	12	14	4
U.S.S.R.—						
Magnesium metal	1,800	1,900	2,100	2,800	3,400	8,000
Yugoslavia—						
Crude	2,628	486	3,779	6,055	1,770	—
Ground and dead-burned	55,718	61,787	84,285	119,744	117,396	101,385
Bricks	10,347	13,651	11,533	25,904	47,054	21,409
South Africa—						
Crude and calcined	—	10	—	7,612	2,309	3,302
Mexico—						
Crude	856	49	—	—	—	—
United States—						
Dead-burned	109,501	64,166	69,312	70,821	63,972	65,420
Magnesium metal (a)	5,500	5,737	2,918	15,010	16,357	13,258
Brazil	3,701	4,796	15,477	1,935	12,166	4,580
Uruguay—						
Dolomite, crude	—	14,724	10,472	13,717	4,724	14,833
Formosa—						
Carbonate	n.a.	n.a.	525	477	672	633
Japan—						
Dolomite	2,037	1,403	1,816	2,279	2,241	41,689
Magnesium metal	—	50	19	22	72	119
Carbonate	2,109	2,438	3,334	2,448	3,414	3,433
Chloride and sulphate	346	(b) 57	(b) 145	(b) 136	(b) 185	(b) 451
Korea (South)—						
Dolomite	n.a.	n.a.	4,527	11,810	19,401	12,996
Turkey—						
Carbonate	1,613	3,297	10,437	28,482	19,393	66,008
Oxide	n.a.	n.a.	n.a.	97	98	49

(a) Including alloys and scrap.

(b) Sulphate only.

IMPORTS OF MAGNESITE, ETC.*

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Crude and calcined ..	151,454	46,833	37,378	85,728	107,745	109,004
Magnesium (c)	5,480	5,516	4,086	3,157	4,506	4,777
Chloride	5,012	4,930	3,974	6,826	5,079	3,832
Dolomite	n.a.	n.a.	10,051	12,061	13,768	19,322
Zambia—						
Crude	n.a.	n.a.	n.a.	n.a.	253	762
Salts	n.a.	n.a.	n.a.	n.a.	75	340
Canada—						
Calcined and dead-burned	22,125	24,613	16,644	27,482	32,161	31,087
Magnesium metal	n.a.	n.a.	n.a.	1,425	1,465	2,685
do. alloys	n.a.	n.a.	n.a.	165	148	294
	(£150,252)	(£59,815)	(£60,178)	(£255,000)	(£187,799)	(£301,824)
Oxide	1,069	780	681	3,237	812	1,070
Carbonate				n.a.	n.a.	n.a.
Sulphate	2,314	2,505	3,001	n.a.	n.a.	n.a.
Other salts	1,674	1,889	10,581	n.a.	n.a.	n.a.
Bricks	(£173,117)	(£153,600)	(£71,261)	(£276,825)	(£359,803)	(£545,937)
Dolomite, calcined	n.a.	n.a.	n.a.	13,387	26,568	15,382
Trinidad and Tobago—						
Crude	49	39	31	80	83	27
Hong Kong—						
Crude	73	59	99	220	236	100
India (b)—						
Crude and calcined	—	—	—	—	343	—
Magnesium metal	85	147	270	157	79	100
Carbonate	782	676	439	550	425	144
Chloride	21	—	—	—	9	4
Oxides	87	43	37	53	136	81
Other salts	22	26	69	34	n.a.	n.a.
Malaysia (West)—						
Crude	n.a.	n.a.	n.a.	n.a.	72	154
Dolomite	—	n.a.	n.a.	n.a.	128	126
Pakistan—						
Chloride	131	32	130	140	n.a.	n.a.
Sulphate	129	12	n.a.	3	n.a.	n.a.
Other salts	n.a.	n.a.	248	41	n.a.	n.a.
Singapore—						
Crude	11	25	121	301	527	299
Dolomite	—	628	1,038	2,322	1,912	2,185
Australia (a)—						
Crude and calcined	12,815	12,558	3,863	50,054	41,673	22,524
Magnesium metal and powder	148	125	203	489	455	872
Oxide	222	269	389	255	234	312
Carbonate	164	135	153	201	257	175
Sulphate	—	—	—	218	211	383
Dolomite	n.a.	n.a.	n.a.	n.a.	n.a.	411
New Zealand—						
Crude	46	302	(a) 146	(a) 174	(a) 167	(a) 279
Magnesium metal	n.a.	n.a.	(a) 23	(a) 21	(a) 84	n.a.
Sulphate	974	689	(a) 590	(a) 596	(a) 705	(a) 506
Other salts	353	n.a.	n.a.	n.a.	n.a.	n.a.
Irish Republic—						
Magnesium salts	349	378	n.a.	n.a.	n.a.	n.a.

* Magnesite unless otherwise stated.

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

(c) Unwrought including alloys.

IMPORTS OF MAGNESITE, ETC. (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
Austria—						
Crude	2,148	4,176	10,621	25,751	19,905	31,803
Magnesium metal	333	318	451	506	532	502
Chloride	1,840	2,481	1,764	1,685	1,468	1,403
Dolomite	2,246	1,982	2,470	3,084	3,058	3,243
Belgium-Luxemburg						
E.U.—						
Crude	197	406	757	481	244	428
Calcined	4,299	3,545	2,816	3,569	6,064	3,244
Magnesium metal	370	510	479	714	706	1,074
Carbonate	243	249	261	284	300	247
Chloride	382	458	646	668	849	889
Oxide and hydroxide	407	455	642	734	913	985
Sulphate	1,727	1,807	2,128	2,076	1,911	2,153
Dolomite, crude	7,028	8,519	7,341	9,503	6,997	10,674
do. calcined	5,863	5,292	5,527	6,874	11,720	12,441
Denmark—						
Crude	2,419	2,506	3,315	3,756	4,640	5,466
Carbonate	109	90	1,005	107	104	77
Chloride	831	486	537	445	707	587
Sulphate	1,474	1,754	2,210	4,760	2,488	1,812
Dolomite	11,231	17,457	16,669	17,823	15,373	19,287
Finland—						
Crude and calcined	1,140	1,862	1,884	1,546	1,998	2,006
Bricks	2,896	3,875	3,574	3,960	4,755	4,427
Carbonate	105	88	60	63	113	98
Chloride	411	214	222	263	288	307
Sulphate	239	215	309	370	1,202	609
France—						
Crude	3,660	4,456	3,163	1,689	767	1,369
Calcined	23,232	23,729	22,714	33,114	41,516	40,121
Bricks	n.a.	n.a.	29,477	32,540	36,313	31,629
Magnesium metal (a)	456	1,176	1,847	2,622	1,183	1,029
Carbonate	270	217	275	234	221	272
Chloride	40	96	30	121	370	1,839
Oxide and hydroxide	422	420	567	472	311	265
Sulphate	2,103	2,765	2,621	1,974	3,041	2,630
Dolomite, crude	29,999	47,669	49,733	50,063	49,470	58,778
do. calcined	135,460	139,253	132,452	131,113	125,815	121,592
Germany (Federal)—						
Crude	1,942	1,371	1,182	8,745	3,018	1,124
Caustic	108,487	110,152	102,475	113,603	121,437	119,658
Dead-burned	97,318	99,274	97,513	174,708	220,402	189,379
Magnesium metal (a)	25,980	29,538	30,528	33,963	40,398	35,295
Carbonate	291	210	223	783	949	1,068
Chloride	—	33	92	15	17	17
Oxide and hydroxide	2,061	3,170	4,007	2,361	2,081	2,014
Sulphate	2	3	17	41	50	67
Dolomite	103,213	59,155	117,379	116,361	118,524	145,671
Greece—						
Crude and calcined	360	301	250	409	496	n.a.
Magnesium metal	8	6	15	27	4	n.a.
Chloride	76	124	86	79	88	n.a.
Sulphate	37	79	366	312	263	n.a.
Dolomite	538	242	41	106	194	n.a.
Hungary—						
Dead-burned	58,605	68,226	64,118	58,037	62,375	76,945
Italy—						
Crude	11,328	r 13,949	12,413	15,282	12,780	9,359
Calcined	r 41,454	r 32,004	26,054	29,363	35,996	35,363
Chloride	r 3,433	3,917	4,259	4,204	4,060	3,946
Oxide	205	271	379	r 312	331	620
Sulphate	1,268	r 1,808	2,518	4,956	5,834	6,733
Dolomite	963	r 2,146	1,065	1,070	429	1,123

(a) Including alloys and scrap.

IMPORTS OF MAGNESITE, ETC. (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES (cont.)						
Netherlands—						
Crude	2,242	1,910	2,150	2,519	2,808	2,930
Calcined	31,488	34,188	37,580	48,778	40,123	33,394
Magnesium metal	154	309	387	485	388	397
Carbonate	441	455	457	6,576	458	403
Oxide and hydroxide	343	238	347	410	444	533
Sulphate	6,232	7,122	8,225	7,285	6,562	6,549
Chloride	2,264	2,386	2,593	2,688	2,888	2,870
Dolomite, crude	157,367	204,108	210,260	260,935	361,519	315,309
do. calcined	47,007	45,894	49,478	47,650	53,840	60,485
Norway—						
Crude and calcined	4,864	7,547	7,221	7,643	3,895	3,964
Chloride	473	14,061	41,477	51,500	51,890	54,418
Sulphate	5,754	8,445	482	381	268	333
Dolomite	3,414	3,695	6,657	12,326	15,580	4,619
Poland—						
Calcined and caustic	78,200	n.a.	123,700	120,600	157,095	152,248
Magnesium metal	210	n.a.	422	276	295	394
Chloride	5,896	n.a.	7,860	5,867	6,376	6,929
Portugal—						
Crude and calcined	673	1,066	750	533	245	1,016
Carbonate	111	76	107	123	117	142
Oxide	271	29	18	73	245	48
Sulphate	1,141	1,240	1,586	1,728	1,836	496
Spain—						
Crude and calcined	3,498	3,190	1,140	3,859	11,547	7,096
Magnesium metal	127	173	161	205	298	339
Dolomite, crude	235	1,191	1,885	1,809	687	925
do. calcined	24	32	157	163	146	122
Sweden—						
Crude and calcined	5,369	4,417	6,722	9,204	7,872	15,673
Bricks	24,350	22,619	20,121	28,568	38,804	41,961
Magnesium metal	411	487	490	582	471	380
Carbonate	206	223	167	201	188	226
Chloride	1,243	1,243	1,482	1,154	2,157	3,704
Sulphate	2,443	2,302	4,512	11,976	9,372	10,004
Dolomite	22,303	24,488	20,043	31,187	27,443	22,781
Switzerland—						
Magnesium metal	465	689	573	745	510	644
Calcined	3,467	3,933	3,557	4,242	3,867	4,049
Carbonate	205	184	126	283	191	236
Chloride	4,991	5,596	5,547	5,729	4,650	4,315
Sulphate	1,327	1,632	923	641	747	734
Dolomite, calcined	7,854	8,094	7,777	8,870	11,670	12,882
U.S.S.R.—						
Crude (a)	55,100	69,200	96,000	78,800	135,700	104,700
Yugoslavia—						
Bricks	5	10	2,015	—	7	318
Magnesium metal	574	153	269	487	651	491
Carbonate	n.a.	n.a.	n.a.	n.a.	203	91
Dolomite	n.a.	n.a.	n.a.	663	1,217	2,275
Angola—						
Sulphate	20	9	23	1,032	49	81
Egypt—						
Magnesite and dolomite	3,663	4,551	4,587	623	3,518	2,664
Sulphate	197	696	n.a.	n.a.	n.a.	n.a.
Morocco—						
Crude	78	59	2	n.a.	54	n.a.
Chloride	3	204	346	262	228	n.a.
Sulphate	147	123	227	168	362	n.a.
Dolomite	394	448	692	n.a.	154	n.a.

(a) Magnesite "powder", mainly from North Korea.

IMPORTS OF MAGNESITE, ETC. (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
South Africa—						
Crude	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	25,745	35,615	34,681
Carbonate	13,285	10,214	9,832	25,744	<i>n.a.</i>	<i>n.a.</i>
Chloride	184	125	174	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sulphate	1,379	1,321	904	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Mexico—						
Crude	3,418	8,222	56	53	22	993
Magnesium metal	322	357	586	476	466	639
Oxide	1,535	1,139	1,187	1,011	295	376
Sulphate	286	263	370	289	127	92
United States—						
Crude	52	1,493	<i>n.a.</i>	2	45	278
Calcined	3,977	6,908	8,868	8,379	10,625	11,876
Dead-burned	46,437	87,283	77,348	53,657	64,261	115,135
Bricks	11,878	13,431	10,266	16,439	18,694	17,977
Magnesium metal, etc.	897	2,106	1,652	1,988	2,278	1,562
Oxide	221	163	83	113	132	68
Carbonate, precipitated	305	355	556	993	1,116	973
Chloride	903	1,316	596	671	327	157
Sulphate	8,956	8,301	7,628	8,526	5,929	8,273
do. calcined	44,803	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Kieserite	6,890	45,366	21,495	37,478	44,966	41,682
Argentina—						
Crude	2,549	2,718	2,367	4,712	4,992	2,153
Carbonate	370	347	368	536	108	211
Chloride	100	50	25	113	124	207
Oxide	9	31	23	44	37	75
Brazil—						
Magnesium metal	91	601	1,779	1,478	1,309	2,772
Carbonate	205	11	229	170	168	324
Chloride	61	140	58	64	54	46
Oxide	92	87	117	102	79	123
Sulphate	1,015	552	772	410	112	193
Chile—						
Crude	54	20	52	<i>n.a.</i>	42	<i>n.a.</i>
Calcined	2,308	3,579	3,406	<i>n.a.</i>	7,291	<i>n.a.</i>
Sulphate	4	—	—	<i>n.a.</i>	—	<i>n.a.</i>
Dolomite, crude	30,781	7,538	11,521	<i>n.a.</i>	11,265	<i>n.a.</i>
do. calcined	86,854	2,955	3,347	<i>n.a.</i>	5,938	<i>n.a.</i>
Colombia—						
Crude and calcined	48	19	36	47	52	75
Carbonate	114	14	14	9	14	23
Chloride	17	44	58	64	97	115
Oxide	118	121	159	127	155	767
Sulphate	513	338	600	296	197	752
Dolomite	4,607	2,605	4,724	4,524	1,966	3,320
Peru—						
Crude and calcined	906	1,172	941	990	1,187	1,253
Carbonate	34	41	46	55	63	35
Oxide	3	8	54	26	—	115
Hydroxide	49	16	27	73	227	171
Sulphate	153	301	67	128	285	171
Chloride	4	8	16	27	17	9
Venezuela—						
Crude	378	754	635	804	2,146	2,868
Sulphate	358	350	375	329	766	362
Iran (a)—						
Sulphate	167	260	256	319	451	144
Israel—						
Crude	893	1,319	948	1,443	2,276	1,278
Japan—						
Crude	3,396	2,914	2,849	4,408	4,442	3,950
Dead-burned	90,320	67,062	20,234	19,220	21,316	19,806

(a) Years ended March 20 of year following that stated.

IMPORTS OF MAGNESITE, ETC. (cont.)

Long ton

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Japan <i>cont.</i> —						
Magnesium metal ..	6	3	488	917	560	1,030
Dolomite	<i>n.a.</i>	185	4,828	12,471	20,323	11,691
Korea (South)—						
Crude	499	1,695	2,044	1,972	1,250	294
Philippine Republic—						
Crude and calcined ..	618	741	768	387	274	<i>n.a.</i>
Sulphate	<i>n.a.</i>	<i>n.a.</i>	180	584	200	<i>n.a.</i>
Dolomite	3,056	2,263	2,803	2,656	3,225	<i>n.a.</i>
Syria—						
Sulphate	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	40	<i>n.a.</i>	<i>n.a.</i>
Thailand—						
Chloride	59	66	41	67	59	117
Sulphate	344	321	393	677	396	617
Turkey—						
Crude	145	76	92	3	7	68
Carbonate	35	70	43	56	64	68
Chloride	94	212	144	205	169	182
Oxide	57	12	10	27	28	21
Sulphate	141	535	422	381	369	629

MANGANESE
PRODUCTION OF MANGANESE ORE
(including Ferruginous Manganese Ore)

Long tons

Producing Country	Estimated Manganese Content						1966	1965	1964	1963	1962	1961	1966	1965	1964	1963	1962	1961	
	1961	1962	1963	1964	1965	1966													
COMMONWEALTH COUNTRIES																			
Botswana ..	28,337	23,623	10,605	27,356	8,676	—	568,100	—	n.a.	179,000	n.a.	207,000	n.a.	218,000	n.a.	192,000	n.a.	284,000	273,000
Ghana ..	431,600	373,400	401,000	454,800	592,500	n.a.	26,280	26,280	25,000	27,000	n.a.	25,000	27,000	20,200	n.a.	18,400	18,400	16,400	14,200
Rhodesia ..	183	7,123	—	143	n.a.	n.a.	180,000	180,000	89,000	114,000	n.a.	89,000	114,000	49,000	n.a.	59,000	59,000	70,000	76,000
Zambia ..	52,247	56,636	34,694	37,410	30,326	—	1,571,000	1,571,000	500,000	500,000	n.a.	500,000	500,000	540,000	n.a.	450,000	450,000	640,000	660,000
Guyana ..	212,126	271,103	140,473	116,881	166,194	—	72,000	72,000	35,000	30,000	n.a.	35,000	30,000	34,000	n.a.	64,000	64,000	37,000	24,000
India ..	1,210,597	1,189,912	1,083,395	1,282,969	1,512,000	—	82,127	82,127	n.a.	n.a.	n.a.	100	300	300	n.a.	400	400	—	—
Goa ..	98,027	86,368	192,000	100,024	109,375	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia (West) ..	6,366	304	6,872	—	2,666	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Pakistan ..	338	925	1,387	980	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Australia ..	87,411	71,646	36,061	61,109	100,369	—	302,120	302,120	41,700	34,600	n.a.	41,700	34,600	30,800	n.a.	17,700	17,700	49,900	141,400
Papua ..	—	—	—	—	—	—	—	—	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Fiji ..	3,455	1,073	3,233	897	5,392	—	5,242	5,242	1,600	500	n.a.	1,600	500	400	n.a.	1,500	1,500	2,600	2,500
New Hebrides (b) ..	4,000	68,530	87,965	54,082	76,534	—	82,629	82,629	1,000	17,000	n.a.	1,000	17,000	16,000	n.a.	26,000	26,000	23,000	25,000
TOTAL ..	2,134,700	2,150,600	1,998,000	2,136,700	2,604,000	—	2,890,000	2,890,000	—	—	—	—	—	—	—	—	—	—	—
OTHER COUNTRIES																			
Bulgaria ..	36,400	34,500	37,900	51,200	41,000	(a)41,000	89,000	89,000	15,000	15,000	n.a.	15,000	15,000	15,000	n.a.	15,000	15,000	15,000	15,000
Czechoslovakia ..	99,000	82,000	84,000	83,000	79,000	—	1,788	1,788	197	300	n.a.	197	300	277	n.a.	280	280	303	394
France ..	892	1,340	1,285	1,257	1,378	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Greece ..	27,853	13,480	18,998	18,188	18,000	(a)70,000	207,000	207,000	11,000	5,000	n.a.	11,000	5,000	8,000	n.a.	8,000	8,000	30,000	32,000
Hungary ..	122,866	127,185	149,965	168,492	210,000	—	43,289	43,289	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Italy ..	48,389	43,719	44,525	r 47,126	47,055	—	6,885	6,885	13,600	13,100	n.a.	13,600	13,100	14,100	n.a.	13,300	13,300	14,100	13,000
Portugal ..	11,154	11,309	8,423	6,885	7,642	—	8,471	8,471	4,685	4,750	n.a.	4,685	4,750	2,616	n.a.	3,201	3,201	3,179	3,262
Roumania ..	203,000	186,000	256,000	a 100,000	124,000	(a)134,000	19,022	19,022	71,000	65,000	n.a.	71,000	65,000	35,000	n.a.	90,000	90,000	43,000	47,000
Spain ..	15,261	12,590	15,051	15,859	17,185	—	25,539	25,539	5,000	4,200	n.a.	5,000	4,200	5,000	n.a.	5,000	5,000	5,500	6,100
Sweden ..	16,399	3,266	7,201	5,850	25,539	—	21,400	21,400	2,641	572	n.a.	2,641	572	860	n.a.	1,210	1,210	3,831	3,600
U.S.S.R. ..	5,878,000	6,301,000	6,558,000	6,984,000	7,456,000	—	7,584,000	7,584,000	2,650,000	2,840,000	n.a.	2,650,000	2,840,000	3,140,000	n.a.	2,950,000	2,950,000	3,360,000	3,410,000
Yugoslavia ..	13,925	14,605	8,004	7,661	7,969	—	8,480	8,480	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Angola ..	21,879	12,668	—	—	—	—	18,257	18,257	9,000	5,000	n.a.	9,000	5,000	—	n.a.	—	—	—	8,000

(a) United States Bureau of Mines' estimate.

(b) Production of ore as mined. Production of sintered ore (about 50% Mn) was as follows (long tons): 1962—19,517; 1963—25,015; 1964—59,312; 1965—65,066; 1966—75,036.

PRODUCTION OF MANGANESE ORE (cont.)

Long tons

Producing Country	Estimated Manganese Content						1966	Estimated Manganese Content					
	1961	1962	1963	1964	1965	1966		1961	1962	1963	1964	1965	1966
OTHER COUNTRIES—(cont.)													
Congo Republic ..	311,246	311,203	265,768	304,808	371,612	236,000	150,000	150,000	130,000	150,000	180,000	110,000	
Egypt ..	274,049	182,749	47,883	322,831	179,268	183,341	80,000	55,000	15,000	95,000	55,000	55,000	
Ethiopia ..	6,889	5,905	—	—	—	—	3,500	3,000	—	—	—	—	
Gabon ..	200,034	200,034	626,533	944,421	1,260,174	1,253,407	—	102,000	320,000	482,000	643,000	639,000	
Ivory Coast ..	122,770	105,274	136,867	134,407	165,688	173,138	56,000	51,000	66,000	65,000	80,000	83,000	
Morocco ..	562,064	461,944	329,658	335,691	369,944	356,696	260,000	210,000	150,000	150,000	170,000	160,000	
South Africa ..	1,395,294	1,441,606	1,336,420	1,444,512	1,747,395	1,950,981	540,000	567,800	558,600	590,700	713,700	800,000	
South West Africa ..	44,906	—	—	(d) 8,500	5,989	22,650	21,600	n.a.	—	n.a.	2,900	10,900	
Sudan ..	—	1,000	(d) 250	(d) 1,000	1,000	1,500	—	n.a.	n.a.	n.a.	n.a.	n.a.	
Costa Rica (a) ..	—	—	590	—	—	1,500	—	—	n.a.	—	—	—	
Mexico ..	d 139,200	rd 140,000	rd 120,000	rd 140,000	d 130,000	d 81,000	67,619	61,876	53,483	63,077	57,882	30,608	
United States (c) ..	146,191	194,360	357,848	208,734	290,298	298,940	32,191	33,621	47,084	34,707	46,271	43,964	
Argentina ..	39,274	28,783	37,949	36,679	28,314	25,038	11,000	12,000	16,000	16,000	12,000	11,000	
Bolivia (a) ..	47	260	—	—	—	—	n.a.	n.a.	—	—	—	—	
Brazil ..	1,000,301	1,152,199	1,234,579	r 1,327,764	1,374,013	1,431,919	450,000	518,000	556,000	597,000	618,000	644,000	
Chile ..	31,290	42,640	45,830	19,547	16,326	17,638	14,000	19,000	21,000	9,000	7,000	8,000	
Peru ..	3,463	6,610	510	r 366	974	840	1,600	3,000	200	200	400	400	
Burma (b) ..	175	190	n.a.	—	n.a.	n.a.	70	80	n.a.	—	n.a.	n.a.	
China (d) ..	790,000	790,000	980,000	980,000	980,000	980,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Indonesia ..	13,090	6,407	2,800	(d) 500	—	—	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Iran (e) ..	2,067	r 5,400	r 15,000	31,000	33,000	d 37,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Japan ..	299,318	303,716	272,347	280,202	297,000	306,000	108,000	105,000	94,000	94,000	100,000	100,000	
Korea (South) ..	1,355	986	4,089	4,244	6,585	5,379	500	400	1,600	1,700	2,600	2,400	
Philippine Republic ..	18,737	11,750	7,945	7,879	50,927	57,206	8,300	5,200	3,400	3,400	23,000	25,000	
Thailand ..	524	2,853	6,505	10,880	32,901	69,487	280	1,500	3,400	5,800	17,400	36,800	
Turkey ..	30,000	20,912	6,204	19,973	13,995	21,618	12,000	9,000	3,000	9,000	6,000	10,000	
TOTAL	11,700,000	12,300,000	r 13,000,000	14,100,000	15,400,000	15,800,000	—	—	—	—	—	—	
WORLD'S TOTAL	13,800,000	14,500,000	r 15,000,000	16,200,000	18,000,000	18,700,000	—	—	—	—	—	—	

Manganese ore is also produced in Cuba and North Vietnam.

(a) Exports.

(b) Concentrates.

(c) Shipments.

(d) United States Bureau of Mines' estimate.

(e) Years ended March 20 following that stated.

EXPORTS OF MANGANESE ORE, ETC.

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Metal	175	25	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Spiegeleisen	662	873	76	60	93	—
Ferro-manganese			940	10,036	13,076	22,101
Ghana—						
Ore	385,073	476,379	387,866	497,993	564,797	589,506
Zambia (<i>f</i>)—						
Ore	41,577	45,138	42,874	26,546	32,113	25,695
Canada—						
Ferro-manganese	212	121	9	2,999	3,408	5,109
Guyana—						
Ore and concentrates	187,383	230,162	(<i>d</i>) 191,892	136,124	157,607	194,050
Cyprus—						
Ore and concentrates	—	—	104	—	—	—
India (<i>b</i>)—						
Ore	789,148	616,843	634,422	1,011,827	630,936	688,955
Ferruginous manganese ore	160,168	121,899	304,902	533,795	699,593	478,503
Ferro-manganese	55,406	12,093	21,581	86,768	55,532	10,127
Goa—						
Ore	107,000	118,429	(<i>e</i>)	(<i>e</i>)	(<i>e</i>)	(<i>e</i>)
Malaysia (West)—						
Ore	—	2,000	6,885	—	1,100	68,220
Singapore—						
Ore	732	511	691	1,057	817	1,485
Australia (<i>a</i>)—						
Ore	46,976	87,361	25,054	27,157	54,737	69,031
Fiji—						
Ore	2,265	10,335	10,182	761	4,809	5,089
New Hebrides—						
Concentrates—						
Unsintered	—	—	—	4,630	7,854	1,370
Sintered	—	14,188	22,791	64,703	70,276	62,762
Papua (<i>a</i>)—						
Ore	1,830	2	2	6	<i>n.a.</i>	<i>n.a.</i>
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Ore	32	2,188	2,438	1,987	7,397	1,202
Ferro-manganese	16,644	22,946	29,017	36,731	43,021	63,070
Ferro-silico-manganese	7,260	7,743	4,912	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Spiegeleisen	4,253	4,163	1,964	4,080	1,076	2,066
France—						
Ore (<i>c</i>)	756	1,596	1,812	1,731	1,567	751
Metal	29	20	199	1,027	1,565	3,389
Ferro-manganese	156,294	152,040	147,755	192,878	200,471	184,815
Spiegeleisen	14,142	17,332	12,733	15,821	16,872	12,073
Germany (Federal)—						
Ore	6,477	5,885	6,600	7,197	8,869	5,766
Metal	789	1,163	1,224	2,118	2,589	1,460
Ferro-manganese	25,764	30,440	66,252	61,279	54,904	90,111
Spiegeleisen	9,519	16,771	17,619	10,034	9,214	11,533
Greece—						
Ore	27,189	7,657	<i>r</i> 12,254	13,179	21,261	23,662
Italy—						
Ore (<i>c</i>)	<i>r</i> 546	634	726	668	1,035	548
Ferro-manganese	2,352	1,276	2,008	<i>r</i> 7,497	6,969	9,125

 (*a*) Years ended June 30 of that stated.

 (*c*) Including manganiferous iron ore.

 (*b*) Years ended March 31 following that stated.

 (*d*) Provisional.

 (*e*) With effect from April, 1963, figures included with those of India.

 (*f*) Figures for the years 1961 to 1963 relate to Rhodesia and Nyasaland.

EXPORTS OF MANGANESE ORE, ETC. (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Netherlands—						
Ore (b)	5,562	5,590	6,983	8,452	8,589	10,596
Norway—						
Ore	400	200	2,600	4,300	8,237	3,000
Ferro-manganese	47,360	45,844	59,499	72,177	100,190	112,460
Ferro-silico-manganese	84,891	70,570	83,022	105,999	116,953	106,830
Portugal—						
Ore	1,976	866	6,048	8,326	2,839	7,705
Roumania—						
Ore	73,600	71,000	70,900	72,700	78,600	47,700
Sweden—						
Ore	743	484	1,290	581	24,495	23,385
Metal	30	17	69	129	62	37
Ferro-manganese	2,540	2,537	4,281	2,913	3,129	8,028
Ferro-silico-manganese	15	25	20	1,004	25	15
U.S.S.R.—						
Ore	881,800	947,800	970,400	963,500	1,004,000	1,198,800
do. (dioxide)	9,100	11,300	8,800	12,900	15,600	16,600
Ferro-manganese	50,800	54,800	56,000	58,700	66,200	86,000
Yugoslavia—						
Ferro-manganese	7,037	7,693	8,130	4,631	3,038	701
Silico-manganese	2,504	1,794	4,564	1,812	2,105	8,960
Angola—						
Ore	21,828	9,375	2,869	9,484	848	5,674
Congo Republic—						
Ore (a)	300,000	250,000	350,000	325,000	400,000	230,000
Egypt—						
Ore	235,969	157,095	120,830	179,566	160,505	120,297
Gabon—						
Ore	—	91,108	594,139	867,823	1,131,308	1,162,374
Ivory Coast—						
Ore	107,687	96,018	103,638	114,530	166,907	173,420
Morocco—						
Ore	443,046	427,156	344,135	281,109	315,869	329,468
South Africa—						
Ore	838,834	820,508	922,200	870,787	993,244	1,482,352
Metal	<i>n.a.</i>	3,604	4,460	4,749	5,023	5,883
Ferro-manganese	130,214	104,861	77,444	120,310	155,110	154,400
South West Africa—						
Ore	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	—	24,329
Costa Rica—						
Ore	—	—	590	—	—	—
Cuba—						
Ore	13,216	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Mexico—						
Ore	174,359	130,322	108,024	118,316	86,865	39,965
<i>Mn content</i>	58,872	61,060	53,085	53,749	42,287	18,227
United States—						
Ore	6,722	7,717	7,407	12,896	12,634	14,721
Metal	1,997	1,976	1,841	3,124	2,167	1,698
Ferro-manganese	419	3,673	605	3,485	2,922	487
Spiegeleisen	469	638	1,050	701	<i>n.a.</i>	<i>n.a.</i>
Bolivia—						
Ore	47	260	—	—	—	—
Brazil—						
Ore	857,784	747,913	827,431	819,763	1,050,899	941,450
Ferro-manganese	49	4,937	—	—	7,145	764
Chile—						
Ore	7,511	9,723	4,651	3,412	12,641	<i>n.a.</i>
Ferro-manganese	3,673	13,509	10,818	5,526	2,796	<i>n.a.</i>
Silico-manganese	644	—	—	<i>n.a.</i>	1,614	<i>n.a.</i>

(a) Estimated.

(b) Including manganese iron ore.

EXPORTS OF MANGANESE ORE, ETC. (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Peru—						
Ore	913	6,858	694	831	463	—
Indonesia—						
Ore	4,200	6,517	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Iran (a)—						
Ore	1,250	246	11,950	26,431	34,459	39,171
Japan—						
Ore	960	805	478	50	356	386
Ferro-manganese ..	14,249	21,091	14,158	8,724	15,072	14,808
Ferro-silico-manganese	772	6,463	3,701	427	712	589
Korea (South)—						
Ore	492	<i>n.a.</i>	276	1,097	2,766	<i>n.a.</i>
Philippine Republic—						
Ore	24,720	8,370	5,257	7,666	16,276	<i>n.a.</i>
Thailand—						
Ore	108	296	2,712	6,629	18,319	65,404
Turkey—						
Ore	19,011	22,127	11,854	17,854	14,707	6,605

(a) Years ended March 20 following that stated.

IMPORTS OF MANGANESE ORE, ETC.

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore	470,929	342,390	305,196	524,393	494,188	364,962
Metal	1,655	1,056	2,061	3,135	2,135	1,861
Ferro-manganese	41,830	44,206	54,205	62,037	80,387	75,849
Spiegeleisen						
Silico-manganese	26,497	28,056	27,297	35,837	32,722	27,847
Canada—						
Ore	67,871	81,004	95,439	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
<i>Mn content</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	56,083	79,893	164,377
Ferro-manganese and						
spiegeleisen	10,772	13,332	20,211	19,491	30,859	43,855
Silico-manganese	1,940	2,434	2,102	1,557	703	1,724
Hong Kong—						
Ore	30	1	—	406	151	311
India (c)—						
Ore	6,412	14,430	12,673	4,706	761	8,740
Ferro-manganese	519	453	677	462	534	875
Malaysia (West)—						
Ore	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	817	1,382
Singapore—						
Ore	3,643	2,295	2,726	3,387	3,424	5,576
Australia (b)—						
Ore	1,520	12,151	54,365	49,542	73,340	34,340
Metal	78	177	208	346	327	(d) 241
Ferro-manganese	36,026	31,300	6,364	11,672	9,575	11,122
New Zealand—						
Ferro-manganese	<i>n.a.</i>	<i>n.a.</i>	(b) 603	(b) 524	(b) 525	<i>n.a.</i>
OTHER COUNTRIES						
Austria—						
Ore	55,408	14,018	681	621	949	1,285
Spiegeleisen	1,698	2,255	2,331	2,654	3,063	2,485
Ferro-manganese	8,679	8,481	9,407	11,784	11,230	12,095
Belgium-Luxemburg						
E.U.—						
Ore (a)	268,274	205,208	219,683	266,806	304,467	254,802
Ferro-manganese	52,644	56,141	60,318	74,556	67,986	67,754
Ferro-silico-manganese	3,766	3,578	3,601	4,488	7,523	4,643
Spiegeleisen	16,143	22,537	19,108	18,284	13,768	12,672
Czechoslovakia—						
Ore	215,000	206,000	232,000	314,000	329,000	282,000
Denmark—						
Ore	1,712	5,660	6,327	8,450	6,260	8,056
Ferro-manganese	1,241	1,599	1,242	945	508	1,665
Ferro-silico-manganese	1,187	710	1,690	1,951	2,252	2,494
Finland—						
Ferro-manganese and						
spiegeleisen	2,194	2,545	2,598	1,530	1,789	1,258
France—						
Ore (a)	690,313	705,956	701,050	778,700	841,229	826,816
Metal	315	302	953	603	714	547
Ferro-manganese	7,276	7,626	9,963	10,098	8,819	16,421
Spiegeleisen	2,151	2,022	2,658	2,046	1,387	2,262
Germany (Federal)—						
Ore	500,742	440,778	639,156	679,792	626,248	607,071
do. (ferruginous)	44,407	69,350	79,987	71,865	93,905	246,627
Metal	1,577	1,638	1,452	2,711	2,380	1,831
Ferro-manganese	81,005	78,794	70,203	88,867	86,762	87,323
Spiegeleisen	15,223	14,930	13,697	16,002	9,859	10,013

(a) Including manganiferous iron ore.

(b) Years ended June 30 of that stated.

(c) Years ended March 31 following that stated.

(d) Excluding waste and scrap.

IMPORTS OF MANGANESE ORE, ETC. (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (East)—						
Ore (b)	77,748	86,511	85,199	70,919	84,000	72,613
Greece—						
Ore	33	22	1,617	7,636	67	<i>n.a.</i>
Hungary—						
Ferro-manganese ..	7,621	10,485	11,208	11,651	11,774	14,634
Italy—						
Ore (a)	136,582	r 101,732	165,732	r 104,179	104,553	90,339
Metal	r 174	r 115	144	r 559	500	1,104
Spiegeleisen	r 12,512	r 13,476	19,064	6,524	5,223	13,716
Ferro-manganese ..	r 30,785	r 42,952	53,853	r 53,145	77,451	76,652
Ferro-silico-manganese	r 2,910	r 2,700	5,535	3,203	5,914	6,710
Netherlands—						
Ore (a)	83,177	36,650	12,723	16,561	16,309	26,829
Ferro-manganese ..	14,210	8,297	12,009	16,649	19,824	17,236
Ferro-silico-manganese	896	405	282	372	252	323
Spiegeleisen	935	483	1,075	708	458	915
Norway—						
Ore	225,348	279,620	229,759	354,317	502,055	480,844
Poland—						
Ore	261,736	294,277	299,494	374,200	342,215	391,293
Spain—						
Ore	66,369	60,762	100,754	147,304	85,257	140,683
Ferro-manganese ..	1,421	1,397	1,483	1,610	1,580	1,324
Sweden—						
Ore	86,962	56,894	76,133	56,085	94,459	45,230
Metal	605	918	1,115	1,120	1,052	1,256
Ferro-manganese ..	10,806	9,982	12,170	12,347	16,052	22,727
Spiegeleisen	139	100	200	167	492	—
Ferro-silico-manganese	3,279	3,583	7,277	6,214	8,265	8,567
Yugoslavia—						
Ore	37,539	44,225	35,465	40,038	43,417	34,502
Metal	92	41	17	98	75	110
Ferro-manganese ..	253	265	334	362	434	267
South Africa—						
Ore	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	617	509	930
Mexico—						
Ferro-manganese ..	106	97	530	424	326	308
United States—						
Ore (over 35% Mn) ..	1,917,136	1,764,840	2,133,500	2,700,211	3,442,497	2,367,784
<i>Mn content</i>	920,591	842,553	1,003,669	1,277,171	1,630,097	1,126,325
Ore (10% to 35% Mn) ..	5,500	6,536	7,373	9,862	33,061	<i>n.a.</i>
<i>Mn content</i>	1,763	2,101	<i>n.a.</i>	<i>n.a.</i>	10,087	11,088
Metal	504	1,343	2,108	784	1,235	1,803
Ferro-manganese ..	198,157	112,156	132,705	189,847	229,767	230,270
<i>Mn content</i>	151,963	86,643	103,015	144,710	176,887	173,717
Silico-manganese ..						
<i>Mn content</i>	12,027	15,315	12,883	6,133	10,358	21,470
Argentina—						
Ferro-manganese ..	415	452	178	292	2,294	474
Brazil—						
Ferro-manganese ..	171	44	58	24	37	319
Chile—						
Ferro-manganese ..	3	<i>n.a.</i>	—	<i>n.a.</i>	—	<i>n.a.</i>
Silico-manganese ..	8	3	—	<i>n.a.</i>	13	<i>n.a.</i>
Japan—						
Ore	362,774	316,740	361,922	550,123	1,048,021	1,122,356
Manganiferous iron ore	134,594	169,237	96,698	68,851	213,868	239,632
Turkey—						
Ferro-manganese ..	3,030	3,502	766	4,977	6,977	8,507

(a) Including manganiferous iron ore.

(b) Mn. content.

MERCURY
PRODUCTION OF MERCURY

Lb. avdp.

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Canada	—	—	—	5,548	1,520	—
OTHER COUNTRIES						
Italy	4,209,000	4,142,000	4,138,000	4,332,000	4,354,000	4,070,000
Roumania	26,590	16,890	14,780	14,780	14,520	14,440
Spain	3,891,355	4,012,668	4,328,536	5,952,000	6,289,800	5,928,200
U.S.S.R. (c)	1,900,000	2,700,000	2,700,000	2,700,000	3,000,000	3,000,000
Yugoslavia	1,210,000	1,240,000	1,200,000	1,320,000	1,250,000	1,210,000
Tunisia	4,100	—	—	—	13,200	19,300
Mexico	1,380,000	1,430,000	1,240,000	953,748	1,458,440	1,680,000
United States	2,406,300	1,997,100	1,452,900	1,074,800	1,488,200	1,672,600
Bolivia (a)	—	840	7,980	n.a.	4,489	n.a.
Chile	114,700	60,142	46,632	20,310	32,498	7,295
Colombia	14,525	—	242	265	3,520	6,395
Peru	228,100	264,700	234,966	248,902	236,873	n.a.
China (c)	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000
Japan	1,930,860	1,246,750	1,413,730	788,695	717,000	n.a.
Philippine Republic	240,700	210,300	201,500	189,700	181,200	185,700
Turkey	141,700	202,200	226,600	196,200	187,000	260,000
WORLD'S TOTAL (b) ..	20,000,000	19,000,000	19,000,000	20,000,000	21,000,000	21,000,000

Mercury is also produced in Czechoslovakia; an allowance has been made for this in the total.

(a) Exports.

(b) Estimated.

(c) United States Bureau of Mines' estimate.

EXPORTS OF MERCURY, ETC.

Lb. avdp.

Exporting Country and Description	1961	1962	1963	1964	1965	1966
Belgium-Luxemburg						
E.U.—						
Mercury	18,300	63,100	27,800	22,000	24,900	30,000
Mercury compounds ..	200	<i>n.a.</i>	<i>n.a.</i>	25,800	1,100	200
Denmark—						
Mercury oxide	882	882	2,646	6,614	2,000	—
France—						
Mercury	24,700	18,000	24,300	11,000	8,800	11,000
Mercury compounds ..	16,300	4,000	8,800	13,200	50,700	—
Germany (Federal)—						
Mercury	467,400	78,500	58,000	102,500	134,700	125,700
Italy—						
Mercury	r 2,484,296	2,715,213	5,755,400	r 6,348,232	3,883,000	3,452,000
Mercury compounds ..	864	1,179	220	33	—	—
Netherlands—						
Mercury	463,000	40,000	8,800	15,400	46,000	49,000
Mercury oxide	30,865	17,637	6,614	6,614	7,000	4,000
Spain—						
Mercury	3,654,583	3,487,713	3,733,598	5,376,789	4,923,360	3,999,829
Mercury compounds ..	259,455	285,106	394,003	111,567	133,721	64,177
Sweden—						
Mercury	13,000	7,000	6,600	20,000	35,000	51,000
Switzerland—						
Mercury	1,572	6,609	1,435	32,809	2,410	7,476
U.S.S.R.—						
Mercury	1,378,000	1,323,000	1,102,000	220,000	53,000	44,000
Yugoslavia—						
Mercury	735,916	724,452	800,928	824,348	1,049,014	1,088,005
Mercury compounds ..	301,509	381,483	199,018	181,855	89,728	44,101
Mexico—						
Mercury	1,462,837	1,651,791	1,433,005	1,017,819	1,468,000	1,485,000
United States—						
Mercury	21,626	17,053	14,212	r 14,288	573,268	27,132
Bolivia—						
Mercury	—	840	7,980	<i>n.a.</i>	4,489	<i>n.a.</i>
Chile—						
Mercury	183,171	80,826	29,507	<i>n.a.</i>	7,450	<i>n.a.</i>
Colombia—						
Mercury	9,193	—	—	—	—	2,191
Peru—						
Mercury	183,125	279,365	196,095	293,918	124,762	210,369
Japan—						
Mercury	1,554	1,786	3,492	58,956	199,304	120,359
Philippine Republic—						
Mercury	128,479	261,753	146,579	110,194	167,919	<i>n.a.</i>
Turkey—						
Mercury	162,000	166,000	208,500	245,700	176,300	236,602

IMPORTS OF MERCURY, ETC.

Lb. avdp.

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Mercury	1,418,269	1,136,261	1,575,810	1,689,576	1,381,274	1,140,702
Rhodesia (c)—						
Mercury	11,655	11,079	10,402	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Canada—						
Mercury	312,913	245,059	447,592	293,900	1,071,900	404,600
Mercury compounds ..	(£1,326)	(£1,284)	(£3,153)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Hong Kong—						
Mercury	33,566	38,244	40,160	31,428	19,704	25,438
India (b)—						
Mercury	273,373	477,625	398,545	407,540	484,635	242,012
Mercury compounds ..	17,633	47,329	26,579	38,287	<i>n.a.</i>	<i>n.a.</i>
Malaysia (West)—						
Mercury	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	27,526	9,066
Pakistan—						
Mercury	31,605	22,343	70,336	11,648	<i>n.a.</i>	<i>n.a.</i>
Australia (a)—						
Mercury	156,164	128,728	139,623	114,316	203,742	102,215
Mercury compounds ..	549,459	26,178	34,645	18,327	6,551	13,390
New Zealand—						
Mercury	5,804	8,360	(a) 11,445	(a) 15,563	(a) 7,294	(a) 9,933
Mercury compounds ..	6,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
OTHER COUNTRIES						
Austria—						
Mercury	103,600	61,300	52,690	29,321	51,600	44,300
Belgium-Luxemburg						
E.U.—						
Mercury	75,000	46,500	235,700	126,500	271,400	103,800
Mercury compounds ..	13,900	15,900	15,200	15,200	14,600	20,300
Denmark—						
Mercury	207,000	44,000	57,300	77,200	46,000	46,000
Mercury compounds ..	55,115	52,911	70,547	57,320	37,000	13,000
Finland—						
Mercury	55,000	62,000	57,320	33,069	117,000	77,000
France—						
Mercury	1,155,900	1,138,000	1,164,000	754,000	983,300	637,000
Mercury compounds ..	40,600	29,000	77,200	70,500	68,300	64,000
Germany (Federal)—						
Mercury	2,056,700	1,789,900	1,241,200	1,849,000	1,745,800	1,479,100
Greece—						
Mercury	2,584	6,598	7,919	1,828	3,488	81,952
Italy—						
Mercury	r 2,771	r 46,445	29,762	r 22,688	83,300	79,600
Mercury compounds ..	r 38,982	r 45,876	40,124	r 12,641	8,200	27,100
Netherlands—						
Mercury	578,000	110,000	139,000	152,000	439,000	269,000
Mercury compounds ..	121,000	126,000	132,000	143,000	119,000	146,000
Norway—						
Mercury	101,000	64,000	55,000	77,000	51,000	46,000
Poland—						
Mercury	403,200	<i>n.a.</i>	342,400	366,600	692,000	622,000
Portugal—						
Mercury	28,900	33,300	23,000	51,600	19,000	58,000
Mercury compounds ..	4,600	4,400	4,900	5,700	3,500	2,000
Sweden—						
Mercury	196,000	282,000	309,000	139,000	161,000	185,000
Switzerland—						
Mercury	102,001	81,606	97,089	118,759	73,224	54,820
Yugoslavia—						
Mercury	37	<i>n.a.</i>	227,764	235,288	—	26
Mercury compounds ..	992	53	78,055	40,512	922	2,465

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

(c) Figures for years 1961 to 1963 relate to Rhodesia and Nyasaland.

IMPORTS OF MERCURY, ETC. (cont.)

Lb. avdp.

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Angola—						
Mercury	298	212	18,365	137	7,948	522
Mercury compounds ..	637	119	538	483	14,482	24,260
Egypt—						
Mercury	322	38,638	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Morocco—						
Mercury	1,528	2,405	7,994	580	518	<i>n.a.</i>
Mozambique—						
Mercury	165	123	35	104	104	251
South Africa—						
Mercury	43,946	72,191	61,175	48,354	61,531	255,025
Sudan—						
Mercury	359	—	—	—	—	—
Tunisia—						
Mercury	747	1,499	48,998	661	216	<i>n.a.</i>
Costa Rica—						
Mercury	<i>n.a.</i>	<i>n.a.</i>	3,968	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
United States—						
Mercury	935,813	2,395,216	3,277,576	3,127,629	1,234,088	2,383,747
Mercury compounds ..	90,700	46,368	14,899	8,625	12,452	<i>n.a.</i>
Argentina—						
Mercury	13,532	24,332	38,116	216,113	28,894	54,168
Mercury compounds ..	1,453	3,840	4,810	6,920	11,184	6,027
Brazil—						
Mercury	192,089	101,071	255,134	228,231	131,519	122,820
Chile—						
Mercury	693	232	1,065	<i>n.a.</i>	254	<i>n.a.</i>
Mercury compounds ..	1,780	2,821	2,066	<i>n.a.</i>	1,733	<i>n.a.</i>
Colombia—						
Mercury	2,127	6,764	14,162	16,133	6,413	10,029
Mercury compounds ..	9,156	14,597	14,511	10,357	2,389	14,561
Peru—						
Mercury	1,512	<i>n.a.</i>	1,239	2,355	2,319	1,197
Mercury compounds ..	397	419	456	547	1,093	4,037
Uruguay—						
Mercury	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	132	1,750
Venezuela—						
Mercury	8,682	10,225	31,337	3,296	8,854	11,449
Mercury compounds ..	24,736	6,740	15,849	11,942	19,571	11,956
Formosa—						
Mercury	11,579	19,941	20,979	97,228	151,109	69,845
Indonesia—						
Mercury	3,691	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Iran (a)—						
Mercury	1,938	45,365	1,316	3,386	3,314	8,056
Japan—						
Mercury	700,025	1,570,328	1,961,444	3,849,145	2,087,709	1,748,184
Korea (South)—						
Mercury	37,000	55,000	849,000	2,169,000	1,210,000	—
Philippine Republic—						
Mercury	9,405	276	606	1,462	666	<i>n.a.</i>
Thailand—						
Mercury	17,170	1,179	2,427	7,068	3,702	27,302
Mercury compounds ..	2,304	2,434	2,663	3,777	3,239	5,298
Turkey—						
Mercury compounds ..	3,697	2,942	3,399	5,172	6,312	4,559

(a) Years ended March 20 of year following that stated.

MICA
PRODUCTION OF MICA

Lb. avdp.

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Kenya—						
Block and sheet ..	222	2,293	1,760	—	—	—
Rhodesia—						
Crude	102,300	172,888	225,819	156,355	180,000	n.a.
Block and sheet ..	64,011	33,136	58,452	74,910	64,000	n.a.
Tanzania—						
Sheet	190,000	210,000	235,000	211,500	227,400	193,900
Waste	—	—	—	323,790	371,240	880,700
Uganda	850	180	—	—	—	—
Zambia—						
Sheet	—	—	—	3,305	8,731	—
Canada (a)—						
Rough mine-run or rified	73,541	72,187	12,021	—	—	—
Trimmed	56,585	33,437	4,235	20,454	1,261	—
Splittings	22,556	—	—	—	—	—
Sold for mechanical splitting	24,577	26,400	—	68,100	10,800	4,000
Ground	1,434,097	609,968	813,935	615,968	299,500	339,800
Scrap	204,804	455,805	352,850	493,640	236,050	200,000
Ungraded	—	6,237	—	—	—	—
By varieties—						
Phlogopite and biotite	1,565,740	1,204,034	1,182,041	1,198,114	n.a.	n.a.
Muscovite and schist	250,420	—	1,000	48	n.a.	n.a.
India (c)(d)—						
Block	4,676,619	4,274,029	3,896,919	4,032,120	3,147,892	3,846,576
Splittings	18,479,395	18,562,593	17,408,950	18,433,579	19,604,512	12,805,646
Ground and waste ..	39,293,188	52,112,644	43,961,185	46,079,728	70,276,740	22,067,733
Other unmanufactured	35,382	404,958	216,734	216,498	173,629	212,177
Pakistan (e)	—	—	2,000	9,000	15,000	—
Australia (b)—						
Crude	185,920	—	—	—	—	—
Scrap	—	—	16,352	32,032	—	—
OTHER COUNTRIES						
Austria	194,000	33,000	—	—	—	—
France	304,000	190,000	388,000	646,000	430,000	492,000
Germany (Federal) ..	18,000	20,000	11,000	18,000	26,000	—
Italy	22,000	n.a.	n.a.	n.a.	n.a.	n.a.
Norway—						
Crude	7,700,000	—	—	n.a.	n.a.	n.a.
Waste	2,200,000	n.a.	—	—	—	—
Sweden (a)—						
Ground	110,000	130,000	44,000	46,000	—	—
Yugoslavia	4,000	4,000	77,000	26,000	119,000	44,000
Angola—						
Sheet	3,571	—	—	—	—	—
Waste and splittings ..	45,966	—	—	—	—	—
Malagasy Republic—						
Phlogopite (block and splittings)	2,224,000	2,961,000	2,120,000	1,500,000	1,390,000	1,580,000
Mozambique	1,150	1,214	—	—	22,000	n.a.
South Africa—						
Sheet	1,341	2,608	} 4,680,000	{ 103,633	2,000	1,068
Waste	5,440,000	4,900,000			6,764,000	5,000,000	4,926,000

(a) Sales.

(b) The following amounts of damourite were also produced (lb. avdp.): 1961—1,140,000; 1962—1,090,000; 1963—1,100,000; 1964—1,270,000; 1965—1,510,000; 1966—1,380,000.

(c) Years ended March 31 following that stated. (d) Exports. (e) West Pakistan.

PRODUCTION OF MICA (cont.)

Lb. avdp.

Producing Country	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
South West Africa ..	—	150,000	1,200,000	832,000	260,000	56,000
Mexico	—	—	—	—	—	873,000
United States (a)—						
Sheet (uncut)	526,007	363,016	102,961	242,662	716,086	4,500
Scrap (b)	198,090,000	215,404,000	218,646,000	229,458,000	240,509,000	226,266,000
Argentina—						
Sheet	120,510	110,000	200,000	241,191	205,510	210,000
Waste	—	—	—	456,760	259,420	n.a.
Brazil	9,101,000	3,885,000	3,289,000	3,241,000	3,089,000	2,244,000
Uruguay	n.a.	n.a.	95,000	n.a.	n.a.	n.a.
TOTAL*	291,000,000	307,000,000	298,000,000	314,000,000	347,000,000	278,000,000

* Excluding mica known to have been produced in Roumania, U.S.S.R. and China.

(a) Sold or used by producers.

(b) Including mica recovered from kaolin and mica schists.

EXPORTS OF MICA

Lb. avdp.

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Splittings	} 5,652,000	6,279,000	7,728,000	9,538,000	5,593,000	5,472,000
Ground and waste						
Kenya—						
Unmanufactured (a)	—	500	1,800	—	—	—
Rhodesia (e)—						
Unmanufactured (a)	122,378	33,327	99,877	777,053	<i>n.a.</i>	<i>n.a.</i>
Tanzania—						
Unmanufactured (a)	197,100	218,600	241,100	535,800	598,080	1,097,300
Zambia—						
Block or sheet	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	5,760	887	<i>n.a.</i>
Waste	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	960	—	<i>n.a.</i>
Canada—						
Rough	181,100	97,900	—	—	—	—
Trimmed block or sheet	41,300	102,300	—	—	—	—
Waste	(d)	(d)	—	—	—	—
Hong Kong—						
Manufactured	—	—	560	560	1,120	—
India (c)—						
Block	4,676,619	4,274,029	3,896,919	4,032,120	3,147,892	3,846,576
Splittings	18,479,395	18,562,593	17,408,950	18,433,579	19,604,512	12,805,646
Ground and waste	39,293,188	52,112,644	43,961,185	46,079,728	70,276,740	22,067,733
Other unmanufactured	35,382	404,958	216,734	216,498	173,629	212,177
Manufactured	449,194	175,113	459,205	532,485	2,607,211	2,611,234
Singapore—						
Unmanufactured (a)	—	900	2,000	400	—	1,300
Manufactured	68	4,482	1,282	511	287	845
Australia (b)—						
Unmanufactured	98,096	57,344	60,397	68,418	73,564	64,991
Manufactured	(£23,599)	(£12,858)	(£16,367)	(£23,813)	(£20,153)	(£19,898)
OTHER COUNTRIES						
Austria—						
Unmanufactured	(a) 10,600	(a) 11,000	66,800	11,000	21,800	23,400
Manufactured	28,200	40,800	17,000	24,000	20,300	32,000
Belgium-Luxemburg						
E.U.—						
Unmanufactured (a)	55,600	45,000	19,600	50,900	30,400	73,200
Manufactured	131,200	257,900	285,500	435,200	381,400	442,700
Denmark—						
Ground	1,100	2,000	2,200	2,200	7,000	51,000
Manufactured	900	2,000	—	1,100	—	2,000
Finland—						
Unmanufactured (a)	121,000	165,000	132,000	110,000	110,000	55,000
France—						
Unmanufactured (a)	138,200	110,000	53,000	390,200	136,700	62,000
Ground	224,000	254,000	<i>n.a.</i>	388,000	1,135,400	1,550,000
Manufactured	504,400	518,000	615,100	716,500	623,900	547,000
Germany (Federal)—						
Unmanufactured (a)	713,000	945,100	1,072,300	1,218,700	1,065,900	1,350,000
Manufactured	241,000	220,700	187,600	277,300	265,900	374,600
Italy—						
Ground	} 134,361	r 81,467	106,000	131,219	{ 170,400	968,000
Waste						
Manufactured	r 33,067	r 49,650	52,700	r 69,856	69,000	76,000
Netherlands—						
Unmanufactured	117,000	247,000	346,000	392,000	229,000	168,000
Manufactured	13,200	15,400	24,300	—	—	4,000
Norway—						
Unmanufactured	6,437,000	6,446,000	7,917,000	8,768,000	9,074,000	9,458,000
Waste	26,000	214,000	—	71,000	77,000	—

(a) Including waste.

(b) Years ended June 30 of that stated.

(c) Years ended March 31 following that stated.

(d) Included with "Rough".

(e) Figures for years 1961 to 1963 relate to Rhodesia and Nyasaland.

EXPORTS OF MICA (cont.)

Lb. avdp.

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Spain—						
Manufactured	—	—	992	24,467	16,149	31,802
Sweden—						
Unmanufactured ..	4,000	18,000	13,000	20,000	57,000	—
Switzerland—						
Unmanufactured (a) ..	54,057	44,509	45,102	25,904	10,293	11,643
Manufactured	458,815	528,302	367,881	434,456	335,872	354,406
U.S.S.R.—						
Unmanufactured ..	4,000	—	15,000	7,000	—	—
Yugoslavia—						
Waste	70,394	—	—	—	—	—
Angola—						
Unmanufactured ..	11,720	<i>n.a.</i>	} 5,732	—	—	33,000
Waste	3,660	<i>n.a.</i>		—	—	—
Malagasy Republic—						
Unmanufactured ..	2,715,173	2,356,741	1,856,881	2,125,805	2,099,050	2,109,698
Mozambique—						
Unmanufactured ..	2,923	1,214	—	—	22,000	13,000
South Africa—						
Unmanufactured (a) ..	6,756,000	5,312,000	4,704,000	5,402,000	3,936,000	3,446,000
Mexico—						
Unmanufactured ..	33,669	16,405	—	—	227	—
United States—						
Unmanufactured ..	334,211	430,856	594,427	542,516	} 7,802,539	10,810,194
Ground	7,074,850	7,427,420	7,244,428	8,263,497		
Manufactured	190,320	197,441	204,246	281,131		
Unmanufactured ..	—	—	—	—	523,338	537,556
Argentina—						
Unmanufactured ..	727,459	650,088	1,067,716	2,011,037	1,087,573	732,856
Brazil—						
Unmanufactured ..	1,969,263	1,944,902	2,759,680	3,837,220	4,989,404	4,172,724
Manufactured	51,099	60,197	33,600	22,540	12,763	9,233
Japan—						
Unmanufactured (a) ..	692,000	40,000	33,000	126,000	88,200	379,000
Manufactured	56,780	88,851	33,788	32,952	91,717	77,640

(a) Including waste.

IMPORTS OF MICA

Lb. avdp.

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Block	856,000	473,000	677,000	867,000	(c) 16,000	(c) 999,000
Splittings	2,999,000	1,693,000	2,556,000	2,589,000	3,011,000	1,516,000
Ground and waste	11,872,000	10,385,000	21,726,000	10,940,000	22,118,000	13,104,000
Manufactured	n.a.	n.a.	81,000	164,000	210,000	279,000
Kenya—						
Unmanufactured (a)	35,300	15,500	29,400	20,200	74,300	33,700
Mauritius—						
Unmanufactured	4	351	—	—	—	110
Manufactured	981	7	271	—	(c) 143	172
Tanzania—						
Unmanufactured (a)	13,200	24,500	16,700	8,800	—	21,800
Zambia—						
Block or sheet	n.a.	n.a.	n.a.	42,540	6,020	13,250
Canada—						
Unmanufactured	1,475,800	2,296,300	d 4,451,387	d 5,884,000	d 6,235,600	d 6,368,300
Manufactured	(£126,259)	(£146,920)	d (£167,443)	d (£246,135)	d (£200,788)	d (£227,000)
Jamaica—						
Unmanufactured	118,046	187,889	142,779	203,120	230,320	225,781
Manufactured	473	147	842	270	152	697
Trinidad and Tobago—						
Unmanufactured (a)	—	2,500	16,500	21,000	59,500	55,700
Manufactured	125	165	245	85	325	432
Hong Kong—						
Unmanufactured (a)	16,400	9,000	6,700	4,400	3,800	(c) 89,824
Manufactured	600	12,300	11,000	22,000	17,800	27,000
India—						
Unmanufactured	48,828	8,800	—	—	—	—
Manufactured	423	2,200	4,400	—	2,240	9,389
Malaysia (West)—						
Unmanufactured (a)	n.a.	n.a.	n.a.	n.a.	4,210	11,600
Manufactured	n.a.	n.a.	n.a.	n.a.	8,584	10,441
Sarawak—						
Unmanufactured (a)	4,000	—	—	22	—	38,640
Singapore—						
Unmanufactured (a)	75,700	1,600	22	1,100	14,700	6,030
Manufactured	1,925	6,938	5,822	4,905	2,992	4,682
Australia (b)—						
Block or sheet	43,859	15,150	40,393	74,571	97,900	75,225
Splittings	237,818	144,714	178,034	246,699	316,491	223,749
Ground	394,876	310,592	590,616	567,760	768,639	725,289
Waste	531,280	663,261	575,472	718,587	1,528,894	872,844
Manufactured	(£15,054)	(£8,583)	(£5,828)	(£6,094)	(£11,990)	(£10,000)
New Zealand—						
Unmanufactured	(£NZ23,910)	£NZ12,407	b £NZ9,542	b £NZ12,414	b £NZ11,317	b £NZ19,672
Waste	(£NZ 4,094)		b £NZ27,121	b £NZ37,348	b £NZ38,694	n.a.
Manufactured	(£NZ2,248)	n.a.				
OTHER COUNTRIES						
Austria—						
Unmanufactured (a)	436,500	515,700	817,700	744,900	571,200	842,400
Manufactured	74,500	56,000	45,000	63,000	38,800	59,700
Belgium-Luxemburg						
E.U.—						
Unmanufactured (a)	1,568,400	1,965,400	1,675,300	2,330,300	3,021,900	2,650,600
Manufactured	70,800	89,100	72,500	109,100	89,100	88,200
Denmark—						
Unmanufactured	12,300	13,000	26,500	8,800	97,000	22,000
Ground	338,000	245,000	482,800	412,300	538,000	650,000
Manufactured	123,500	152,000	108,000	128,000	161,000	112,000

(a) Including waste.

(b) Years ended June 30 of that stated.

(c) Excess of re-exports. United Kingdom imports, before deduction of re-exports, were (lb. avdp.): 1965—1,187,000; 1966—1,140,000.

(d) Owing to reclassification not strictly comparable with earlier years.

IMPORTS OF MICA (cont.)

Lb. avdp.

Importing Country and Description	1961	1962	1963	1964	1965	1966	
OTHER COUNTRIES							
<i>(cont.)</i>							
Finland—							
Unmanufactured (a) ..	574,298	686,709	1,091,337	801,400	1,052,910	1,638,059	
Manufactured	57,000	62,000	59,500	53,000	68,000	46,000	
France—							
Unmanufactured (a) ..	5,193,200	4,409,000	4,334,300	8,474,600	7,209,100	12,577,000	
Ground	2,587,600	2,919,000	3,661,900	3,785,300	3,388,500	4,063,000	
Manufactured	58,000	88,000	68,300	94,800	502,700	120,000	
Germany (Federal)—							
Unmanufactured (a) ..	10,260,300	9,882,700	9,886,800	14,050,500	15,114,500	12,075,000	
Manufactured	229,700	181,200	237,400	318,800	450,000	2,898,000	
Greece—							
Unmanufactured	24,341	63,160	50,797	62,576	49,547	65,389	
Manufactured	10,395	11,438	16,976	12,483	17,666	n.a.	
Italy—							
Unmanufactured	r 2,675,543	3,670,264	1,475,300	r 1,110,823	751,100	} 4,184,600	
Ground	1,962,780	2,682,448	} 2,568,400	{ 2,061,999	1,827,900		
Waste	1,393,310	1,799,034		{ 903,329	2,294,600		
Manufactured	r 750,259	r 534,090	283,000	r 219,814	163,600		256,398
Netherlands—							
Unmanufactured (a) ..	1,257,000	1,565,000	1,389,000	1,748,000	2,110,000	1,810,000	
Manufactured	137,000	123,000	126,000	4,000	132,000	123,000	
Norway—							
Unmanufactured	791,000	55,000	71,000	754,000	2,769,000	337,000	
Waste	5,767,000	9,231,000	7,520,000	7,416,000	11,510,000	10,644,000	
Manufactured	71,000	368,000	88,000	77,000	86,000	44,000	
Poland—							
Unmanufactured	1,322,300	n.a.	1,351,200	2,100,800	2,429,000	2,282,000	
Portugal—							
Unmanufactured	226,600	284,400	205,500	289,500	323,400	190,700	
Manufactured	11,900	15,000	15,200	16,800	21,800	90,610	
Spain	409,284	838,257	1,467,831	1,037,292	2,031,910	1,461,885	
Sweden—							
Unmanufactured (a) ..	2,648,000	2,496,000	2,544,000	2,324,000	2,709,000	2,710,000	
Manufactured	71,000	93,000	90,000	108,000	88,000	93,000	
Switzerland—							
Unmanufactured (a) ..	1,773,683	2,042,483	2,027,829	1,519,957	1,884,698	1,381,818	
Manufactured	190,687	228,820	130,218	265,756	356,807	206,763	
U.S.S.R.—							
Unmanufactured	1,404,000	730,000	441,000	529,000	829,000	194,000	
Yugoslavia—							
Unmanufactured	—	13,227	50,521	—	1,323	14,090	
Manufactured	20,682	21,314	73,921	101,911	84,210	82,124	
Egypt—							
Unmanufactured	55,676	15,926	n.a.	n.a.	n.a.	n.a.	
Manufactured	10,143	3,865	n.a.	n.a.	n.a.	n.a.	
Malagasy Republic—							
Unmanufactured	25,353	17,637	1,653	4,411	77	478	
Morocco—							
Unmanufactured (a) ..	—	—	—	—	—	n.a.	
Ground	3,000	2,425	7,055	3,300	3,300	n.a.	
Manufactured	2,659	2,383	2,077	2,354	—	n.a.	
South Africa—							
Unmanufactured	n.a.	n.a.	n.a.	1,003,600	497,900	838,100	
Manufactured	n.a.	n.a.	n.a.	377,532	(£271,000)	(£217,211)	
Mica and micanite sheets	60,910	64,146	89,791	(b)	(b)	(b)	
Sudan—							
Unmanufactured	n.a.	n.a.	16,199	11,000	2,000	7,000	
Manufactured	n.a.	n.a.	35,713	9,004	22,159	29,000	
Tunisia—							
Unmanufactured	} 15	11,023	14,980	37,593	302,069	n.a.	
Ground		} 6,600	1,700	1,900	1,000	1,528	n.a.
Manufactured							

(a) Including waste.

(b) Included with "manufactured".

IMPORTS OF MICA (cont.)

Lb. avdp.

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Guatemala—						
Unmanufactured ..	6,931	7,857	14,145	17,379	19,427	21,208
Manufactured ..	22	18	42	227	260	225
Mexico—						
Unmanufactured ..	91,558	201,474	177,126	124,035	360,617	527,520
Waste ..	309,077	417,604	263,946	77,329		
United States—						
Unmanufactured ..	852,648	1,110,739	1,133,521	942,547	653,734	3,810,703
Ground ..	23,000	69,000	31,000	23,000	87,000	
Waste ..	6,047,586	8,916,421	16,075,434	5,465,748	3,043,355	
Films and splittings ..	7,457,035	10,460,437	8,442,887	9,830,594	11,117,748	
Other manufactures ..	164,179	276,196	231,283	244,495	384,026	
Argentina ..	11,054	4,031	28,590	42,443	43,297	18,894
Bolivia ..	37	265	31,200	18	—	—
Brazil—						
Unmanufactured ..	60	2,244	661	500	701	3,955
Manufactured ..	7,247	11,188	58,784	14,654	48,264	49,582
Chile—						
Unmanufactured ..	51,399	64,146	39,930	<i>n.a.</i>	14,559	<i>n.a.</i>
Manufactured ..	14,808	6,942	10,699	<i>n.a.</i>	20,681	<i>n.a.</i>
Colombia—						
Unmanufactured ..	391,331	425,915	300,587	259,841	186,876	319,121
Manufactured ..	16,435	12,807	22,306	21,272	24,690	38,638
Peru—						
Ground and waste ..	210,283	205,594	225,046	285,307	302,620	296,143
Venezuela—						
Unmanufactured ..	905,387	733,473	312,657	657,489	846,740	863,182
Manufactured ..	40,812	21,308	4,376	7,553	5,280	14,974
Indonesia—						
Manufactured ..	21,213	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Iran (a)—						
Unmanufactured ..	679,158	251,911	835,420	453,650	1,072,300	601,483
Manufactured ..	4,879	11,764	11,508	64,137	202,984	
Japan—						
Unmanufactured ..	4,057,000	3,851,000	3,126,000	9,301,000	11,105,000	5,483,000
Ground ..	207,000					
Waste ..	5,456,000	3,538,000	3,258,000	3,018,000	3,472,000	4,475,000
Manufactured ..	1,208	2,185	1,468	840	637	952
Lebanon—						
Unmanufactured ..	6,523	8,234	21,566	54,611	71,564	55,281
Philippine Republic—						
Unmanufactured ..	149,264	84,957	109,989	82,642	143,772	<i>n.a.</i>
Thailand—						
Unmanufactured ..	5,364	1,107	4,273	10,911	20,049	22,048
Manufactured ..	1,325	3,565	7,824	4,969	10,190	12,233
Turkey—						
Unmanufactured ..	7	25,026	39,979	116,845	72,753	18,023
Manufactured ..	2,297	5,150	16,506	356,024	18,435	39,110

(a) Years ended March 20 of year following that stated.

MOLYBDENUM
PRODUCTION OF MOLYBDENUM ORE
(MoS₂ content or equivalent)

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Nigeria	—	—	2	—	3	2
Canada (a)	574	609	621	912	7,116	15,336
Australia	1	1	10	—	19	2
OTHER COUNTRIES						
Norway	396	427	345	375	393	398
U.S.S.R. (b)	8,900	9,300	9,300	9,800	10,200	10,600
Mexico	3	96	68	88	80	147
United States	49,563	38,156	48,407	48,849	57,611	67,410
Chile	3,006	4,005	4,770	6,323	7,702	7,016
Peru	—	—	r 836	648	1,116	1,243
China (b)	2,500	2,500	2,500	2,500	2,500	2,500
Japan	600	613	544	460	455	465
Korea (South)	52	122	115	200	334	491
Philippine Republic	185	186	176	173	130	(b) 80
TOTAL*	65,800	56,000	r 67,700	r 70,300	87,700	105,700

*Excluding molybdenum ore known to have been produced in Roumania, Spain, Argentina, North Korea and Turkey.

(a) Shipments.

(b) United States Bureau of Mines' estimate.

EXPORTS OF MOLYBDENUM ORE, ETC.

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ferro-molybdenum ..	246	229	160	130	277	478
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Ferro-molybdenum ..	246	143	2	—	—	—
France—						
Ferro-molybdenum ..	375	412	569	618	467	507
Oxide and molybdates ..	2	10	57	38	61	73
Germany (Federal)—						
Ore	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	114	83	35
Metal	27	22	35	80	83	94
Italy—						
Ferro-molybdenum ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	r 13	1	1
Netherlands—						
Metal	58	70	55	65	123	153
Norway—						
Ore	394	480	417	400	417	426
Sweden—						
Ferro-molybdenum ..	261	326	271	308	420	607
U.S.S.R.—						
Ferro-molybdenum ..	4,400	2,500	3,000	5,300	4,600	1,100
Mexico—						
Ore and concentrates (<i>MoS₃ content</i>) ..	3	96	68	88	107	64
United States—						
Ore and concentrates (<i>MoS₃ content</i>) ..	26,553	11,582	19,765	18,570	16,388	13,289
Metal, alloys and scrap ..	197	34	62	627	49	26
Ferro-molybdenum ..	160	85	107	779	1,001	982
Wire, powder and semi- fabricated	14	21	25	128	309	94
Chile—						
Ore	3,918	5,049	5,844	6,936	5,574	7,261
Peru—						
Ore (<i>MoS₃ content</i>) ..	—	8	264	773	579	825
Korea (South)—						
Ore	<i>n.a.</i>	<i>n.a.</i>	302	358	524	1,012
Philippine Republic—						
Concentrates	203	235	169	271	148	<i>n.a.</i>

IMPORTS OF MOLYBDENUM ORE, ETC.

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore	7,961	5,510	5,780	6,398	7,823	8,997
Metal	22	30	42	81	120	67
Canada—						
Oxide	119	147	116	219	339	297
Australia (a)—						
Oxide	26	66	61	90	146	84
Ferro-molybdenum ..	525	74	77	260	182	244
OTHER COUNTRIES						
Austria—						
Oxide	208	237	291	296	393	529
Ferro-molybdenum ..	51	121	65	37	10	10
Belgium-Luxemburg E.U.—						
Oxide	—	14	9	86	15	15
Ferro-molybdenum ..	532	498	297	379	152	100
Denmark—						
Ferro-molybdenum ..	38	42	15	29	34	47
Finland—						
Ferro-molybdenum ..	185	133	59	67	76	124
France—						
Ore	5,641	3,190	4,547	4,785	4,105	5,576
Metal and alloys ..	33	26	34	73	86	84
Oxide and molybdates ..	32	42	39	7	18	79
Germany (Federal)—						
Ore	9,047	4,790	9,227	7,847	8,886	9,802
Metal	120	88	64	438	311	381
Hungary—						
Ferro-molybdenum ..	193	195	158	116	—	n.a.
Italy—						
Ore	1,500	1,150	1,115	r 1,273	1,501	1,974
Metal	15	52	20	r 40	121	28
Ferro-molybdenum ..	n.a.	—	n.a.	453	616	722
Netherlands—						
Metal	21	14	12	12	34	91
Ferro-molybdenum ..	51	99	56	50	86	87
Oxide and molybdates ..	269	206	183	218	207	78
Norway—						
Ferro-molybdenum ..	61	50	43	n.a.	n.a.	n.a.
Poland—						
Concentrates	n.a.	n.a.	239	324	105	244
Sweden—						
Ore	2,751	1,891	2,295	3,022	3,400	3,950
Metal	12	24	22	69	44	70
Ferro-molybdenum ..	1,141	351	596	405	592	1,611
United States—						
Metal	1	20	154	110	n.a.	n.a.
Semi-fabricated ..	8	14	8	5	15	n.a.
Japan—						
Ore and concentrates ..	5,149	1,285	1,619	4,998	4,962	7,220

(a) Years ended June 30 of that stated.

NICKEL
PRODUCTION OF NICKEL ORE
(Metal content)

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Rhodesia	65	105	159	231	<i>n.a.</i>	<i>n.a.</i>
Canada (b)	208,028	207,359	193,777	204,015	231,413	199,652
TOTAL	208,093	207,464	193,936	204,246	232,000	200,000
OTHER COUNTRIES						
Finland (c)	2,157	2,584	3,040	3,260	3,060	(a) 3,000
Poland	1,297	1,302	1,088	1,186	1,804	(a) 1,300
U.S.S.R. (d)	75,000	80,000	80,000	80,000	80,000	90,000
Morocco	254	282	270	r 331	354	384
Cuba (a) (e)	14,570	16,340	r 19,474	r 22,061	27,000	27,000
United States (f)	9,979	10,015	10,207	10,879	12,062	11,819
Brazil (i)	81	r 236	r 1,014	(a) 1,000	1,096	(a) 1,100
Burma (g)	137	106	90	70	<i>n.a.</i>	<i>n.a.</i>
Indonesia	620	440	1,600	1,700	2,800	(a) 4,000
Korea (South)	28	26	25	18	1	—
Philippine Republic	9	11	—	—	<i>n.a.</i>	<i>n.a.</i>
New Caledonia (h)	53,000	33,000	44,000	61,000	61,000	63,000
TOTAL*	160,000	150,000	160,000	180,000	190,000	200,000
WORLD'S TOTAL* ..	370,000	360,000	350,000	380,000	420,000	400,000

*Ores containing nickel are also produced in Albania, East Germany and South Africa. Totals are approximate.

(a) United States Bureau of Mines' estimate.

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

(c) Nickel content of concentrates and nickel sulphate.

(d) Estimated. Source: Metallgesellschaft.

(e) Estimated nickel content of nickel oxide and sulphide.

(f) Metal from domestic ore plus nickel produced as a by-product in the electrolytic refining of copper (partly from imported blister copper).

Secondary metal was recovered in the United States as follows:

	Long tons				Long tons			
1961	9,543	1964	20,637					
1962	9,918	1965	17,328					
1963	16,961	1966	23,908					

(g) Nickel content of nickel speiss.

(h) Content of dry ore mined. The estimated content of matte and ferro-nickel produced was:

	Long tons				Long tons			
1961	25,000	1964	26,167					
1962	15,062	1965	30,873					
1963	22,095	1966	33,881					

(i) Content of ferro-nickel.

EXPORTS OF NICKEL*

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Unwrought (a) ..	21,918	20,129	23,604	26,882	27,783	25,385
Semi-manufactures ..	2,396	2,273	2,910	3,072	2,979	3,822
do. alloys ..	3,390	3,292	3,528	4,441	3,745	4,206
Scrap (a) ..	2,088	2,141	2,738	3,237	3,398	2,995
Nickel oxide ..	519	476	481	149	38	11
Rhodesia (d)—						
Ore ..	224	262	570	698	<i>n.a.</i>	<i>n.a.</i>
Canada—						
Matte or speiss (Ni content) ..	82,980	69,116	74,457	66,755	73,506	74,631
Unwrought ..	119,200	108,672	97,461	114,580	120,712	121,954
Scrap (a) ..	552	865	854	965	934	1,056
Nickel oxide (Ni content) ..	16,090	9,929	13,579	31,965	36,568	30,028
Hong Kong—						
Scrap ..	95	18	62	56	20	43
Australia (c) ..						
Unwrought and semi-manufactures (a) ..	133	103	115	192	252	255
OTHER COUNTRIES						
Belgium-Luxemburg E.U.—						
Unwrought ..	—	4	—	2	9	172
do. alloys ..	29	6	5	28	—	15
Scrap ..	920	367	606	494	454	463
Semi-manufactures (a) (b) ..	94	141	126	116	163	259
Denmark—						
Unwrought ..	—	—	—	—	—	5
Scrap (a) ..	43	199	221	201	173	405
Finland—						
Unwrought ..	1,519	2,190	2,329	3,122	2,508	2,585
France—						
Matte and speiss ..	50	429	1,201	656	55	22
Unwrought ..	3,255	5,231	5,494	3,041	4,704	7,010
do. alloys ..	26	20	—	14	27	26
Scrap (a) ..	1,639	1,077	3,099	828	1,357	1,565
Semi-manufactures (a) ..	730	961	1,066	1,114	1,729	1,921
Germany (Federal)—						
Unwrought and scrap (a) ..	644	913	824	1,085	1,194	2,571
Semi-manufactures (a) ..	4,586	5,031	4,312	4,307	5,047	5,964
Greece—						
Unwrought ..	<i>n.a.</i>	220	595	45	56	<i>n.a.</i>
Italy—						
Semi-manufactures (a) ..	718	717	972	777	1,071	1,020
Netherlands—						
Scrap (a) ..	797	976	1,524	1,534	1,167	1,270
Semi-manufactures (a) ..	124	181	90	106	123	195
Norway—						
Unwrought ..	29,207	27,243	23,559	33,330	30,745	30,138
Scrap ..	337	244	212	150	64	130
Semi-manufactures (a) ..	648	602	507	498	266	216

*In these tables the description "unwrought" nickel corresponds to item 683.1 of the Standard International Trade Classification (Revised) which excludes all electro-plating anodes. "Semi-manufactures" corresponds to S.I.T.C. (R) 683.2 and includes electro-plating anodes as well as sheets, bars, rods, etc.

(a) Including alloys.

(b) Excluding anodes.

(c) Years ended June 30 of that stated.

(d) Figures for years 1961 to 1963 relate to Rhodesia and Nyasaland.

EXPORTS OF NICKEL (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Sweden—						
Unwrought	6	122	9	—	70	33
Scrap	48	75	55	74	343	364
Semi-manufactures (a)	585	588	703	763	812	1,008
Switzerland—						
Unwrought and scrap (a)	467	517	474	589	802	675
Semi-manufactures (a)	868	675	775	773	1,061	994
South Africa—						
Unwrought	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	740	1,077	1,266
United States—						
Ore, concentrates and matte	1,576	41	11	7	<i>n.a.</i>	<i>n.a.</i>
Unwrought and semi-manufactures (a)	8,258	8,996	10,534	12,790	10,414	15,493
Scrap (a)	39,714	15,643	43,854	48,364	6,003	5,247
Burma—						
Unwrought	434	—	706	615	—	<i>n.a.</i>
Indonesia—						
Ore	14,763	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Ferro-nickel	289	—	11	—	3	186
Unwrought	1	—	—	} 7	1	1
do. alloys	—	—	—			
Semi-manufactures (a)	60	176	133	240	388	3,059
Korea (South)—						
Ore	738	902	537	—	—	—
Philippine Republic—						
Ore	43	54	34	—	<i>n.a.</i>	<i>n.a.</i>
New Caledonia—						
Ore	997,330	607,603	606,969	1,066,559	879,821	1,069,493
Matte	15,276	11,377	17,581	16,901	18,107	19,372
Ferro-nickel	45,791	20,943	29,003	46,591	54,543	71,112

(a) Including alloys.

IMPORTS OF NICKEL*

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore, concentrates and matte	63,057	53,712	61,621	56,183	63,038	55,270
Unwrought	19,769	7,594	7,485	18,612	16,592	23,763
do. alloys	11	10	934	121	124	361
Semi-manufactures (a)	4,799	4,162	3,078	4,818	2,015	1,721
Scrap (a)	2,888	2,349	2,508	3,722	3,091	2,883
Nickel oxide	1,273	1,064	1,027	1,674	97	643
Rhodesia (g)—						
Semi-manufactures (a)	18	12	10	17	48	n.a.
Canada—						
Unwrought (a)	12	132	8,212	} (e) 11,257	(e) 13,437	(e) 28,256
Semi-manufactures (a)	3,831	6,559	1,586			
Cyprus—						
Semi-manufactures (a)	4	5	1	2	—	n.a.
Hong Kong—						
Semi-manufactures (a)	85	104	103	143	125	116
India (c)—						
Unwrought	1,316	1,304	1,663	1,249	634	269
do. alloys	47	45	39	60	480	113
Scrap	120	431	190	752	799	298
Semi-manufactures (a)	385	202	266	396	676	567
Australia (b)—						
Matte, speiss, etc.	—	—	300	82	1,409	456
Unwrought	825	355	624	947	1,252	972
do. alloys	(d) 143	(d) 96	(d) 162	(d) 213	(d) 318	319
Semi-manufactures (a)	963	845	1,054	996	1,104	(e) 793
New Zealand—						
Unwrought (a)	26	34	(b) 28	(b) 31	(b) 41	(b) 53
Semi-manufactures (a)	71	140	(b) 180	(b) 164	(b) 176	(b) 228
Irish Republic—						
Unwrought (a)	} 147	155	10	23	32	13
Semi-manufactures (a)			{ 141	116	61	101
OTHER COUNTRIES						
Austria—						
Matte and speiss	244	120	293	385	363	726
Unwrought	2,615	2,049	3,020	2,788	2,488	2,210
Scrap	—	1	2	9	23	117
Semi-manufactures (a)	358	365	341	423	431	559
Belgium-Luxemburg						
E.U.—						
Unwrought	1,082	1,098	984	1,143	1,030	1,194
do. alloys	201	232	137	176	138	167
Scrap	179	287	403	349	523	550
Semi-manufactures (a)	467	536	611	689	678	657
Denmark—						
Unwrought	137	93	69	65	100	110
do. alloys	28	38	8	18	17	13
Semi-manufactures (a)	523	613	568	574	684	792

*See footnote on p. 222 concerning the descriptions "unwrought" nickel and "semi-manufactures" used in these tables.

(a) Including alloys.

(b) Years ended June 30 of that stated.

(c) Years ended March 31 following that stated. (g) Figures for years 1961 to 1963 relate to

(d) Including scrap.

(e) Owing to reclassification not strictly comparable with earlier years.

Rhodesia and Nyasaland.

IMPORTS OF NICKEL (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Finland—						
Unwrought (a) ..	473	387	145	227	263	249
France—						
Matte and speiss ..	14,511	13,554	12,501	11,079	16,556	12,963
Ferro-nickel ..	20,957	12,238	19,587	22,349	32,388	28,202
Unwrought ..	4,159	4,057	4,783	8,236	8,005	8,363
do. alloys ..	5	4	27	57	122	58
Scrap (a) ..	1,745	1,641	1,804	1,324	476	578
Semi-manufactures (a)	1,598	1,704	1,727	2,488	2,083	2,607
Germany (Federal)—						
Ore ..	16	20	682	119	521	5
Matte and speiss ..	1,205	481	1,240	3,622	4,067	6,069
Unwrought (a) ..	19,278	18,610	18,914	23,033	23,555	23,439
Scrap (a) ..	3,409	3,758	4,257	3,158	1,865	2,700
Semi-manufactures (a)	1,440	1,201	893	1,354	1,824	1,736
Italy—						
Matte and speiss .. r	781	r 1,003	1,046	r 999	620	1,717
Unwrought (a) .. r	5,332	r 4,325	6,067	r 7,114	8,322	10,983
Scrap .. r	972	r 679	598	179	602	957
Semi-manufactures (a) r	1,323	r 1,683	1,457	r 1,060	981	1,571
Nickel oxide ..	1,267	142	232	182	113	131
Netherlands—						
Unwrought ..	464	405	528	628	749	1,590
do. alloys ..	76	42	57	102	63	64
Scrap (a) ..	304	446	862	896	733	1,042
Semi-manufactures (a)	1,545	1,514	1,343	1,875	1,908	1,892
Nickel oxide ..	169	166	206	228	127	65
Norway—						
Ore ..	90	211	—	—	—	—
Matte (copper-nickel) ..	63,328	59,896	55,559	50,009	59,760	60,405
Scrap (a) ..	3,938	524	165	1,397	2,727	1,845
Semi-manufactures (a)	323	333	283	264	243	266
Portugal—						
Unwrought and semi-manufactures ..	112	200	82	151	201	238
Spain—						
Matte and speiss ..	819	374	291	326	434	463
Unwrought (a) ..	174	691	817	888	1,191	1,153
Semi-manufactures (a)	334	537	765	698	1,103	1,089
Sweden—						
Matte and speiss ..	898	358	340	375	575	2,276
Unwrought ..	8,592	6,980	8,047	11,352	12,795	12,072
do. alloys ..	374	398	198	246	181	302
Scrap (a) ..	225	94	266	620	824	1,277
Semi-manufactures (a)	930	965	968	815	782	936
Switzerland—						
Unwrought and scrap (a)	1,636	1,591	1,084	1,317	972	1,387
Semi-manufactures (a)	751	743	637	741	1,397	1,088
Yugoslavia—						
Unwrought ..	216	353	566	576	562	354
Semi-manufactures (a)	19	17	82	92	96	121
Egypt—						
Semi-manufactures ..	181	45	n.a.	n.a.	n.a.	n.a.
Mexico—						
Unwrought ..	296	240	146	222	204	93
Semi-manufactures ..	182	209	253	214	817	898
United States—						
Ore and matte ..	—	21	30	—	72	—
Unwrought and scrap ..	103,806	104,083	97,170	95,241	121,066	101,586
Semi-manufactures ..	287	362	n.a.	3,014	2,304	4,129
Nickel oxide ..	13,048	7,733	11,506	15,056	12,136	6,884

(a) Including alloys.

IMPORTS OF NICKEL (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Argentina—						
Unwrought	69	62	73	177	202	201
Semi-manufactures ..	288	136	127	331	307	280
Brazil—						
Unwrought (a)	741	866	322	352	273	468
Semi-manufactures (a)	192	307	267	142	230	397
Chile—						
Unwrought	38	19	<i>n.a.</i>	<i>n.a.</i>	74	<i>n.a.</i>
Colombia—						
Unwrought (a)	30	34	48	37	7	18
Semi-manufactures (a)	193	101	340	616	108	170
Formosa—						
Unwrought (a)	91	99	177	101	106	129
Iran—						
Semi-manufactures ..	388	319	290	196	132	160
Japan—						
Ore	1,030,024	664,212	668,764	1,125,173	951,474	1,249,886
Matte	707	676	3,869	5,343	4,288	4,974
Ferro-nickel	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	6,495	6,601	670
Unwrought (a)	251	1,054	169	2,438	2,615	3,034
Semi-manufactures (a)	544	669	776	1,351	654	629
Philippine Republic—						
Semi-manufactures (a)	37	21	12	58	39	<i>n.a.</i>
Turkey—						
Semi-manufactures (a)	44	86	101	87	68	77

(a) Including alloys.

NITROGEN COMPOUNDS
PRODUCTION OF NITROGEN COMPOUNDS*

Long tons

Producing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom (a)—						
Nitrogenous fertilizers expressed as 25% NH ₃	2,235,900	2,257,300	2,630,200	r 2,784,400	2,952,000	3,188,300
Actual ammonium sulphate	1,084,000	1,090,000	1,152,600	1,170,000	990,000	913,600
Canada—						
Ammonium sulphate	269,070	253,589	246,740	284,504	260,437	307,125
Ammonium nitrate	n.a.	311,312	404,538	380,441	462,882	553,735
Trinidad (b)—						
(N content)						
Nitrogen fertilizers	12,028	25,546	(f) 26,000	(f) 30,000	(f) 30,000	n.a.
India—						
Ammonium sulphate	389,000	411,000	436,000	421,110	431,658	n.a.
do. (N content)	77,800	82,300	87,100	84,200	81,600	85,000
Pakistan (d)—						
Ammonium sulphate	50,506	51,964	49,724	40,002	37,931	40,456
Ammonium nitrate	1,321	41,884	66,955	61,199	n.a.	n.a.
Australia—						
Ammonium sulphate	103,840	100,980	86,410	97,370	107,830	111,000
OTHER COUNTRIES						
Austria (b)—						
(N content)						
Nitrogen fertilizers	159,400	169,600	170,700	167,100	181,800	n.a.
Belgium—						
(N content)						
Synthetic ammonia, etc.	271,310	276,710	309,740	351,610	391,660	396,609
Ammonium sulphate	14,300	16,950	13,520	15,930	14,700	13,819
Mixed fertilizers	31,260	38,450	50,690	59,540	67,950	70,471
Technical products	12,800	14,520	19,760	23,690	18,790	17,563
Bulgaria—						
(N content)						
Nitrogen fertilizers	86,341	92,530	99,353	202,150	241,951	n.a.
Czechoslovakia—						
Nitrogen fertilizers (N content)	143,891	151,485	151,382	155,881	216,313	246,566
Denmark—						
Lime ammonium nitrate	—	—	—	14,566	70,161	n.a.
Finland (b)—						
(N content)						
Cyanamide	29	—	76	135	143	n.a.
Ammonium nitrate	16,300	13,778	13,262	19,783	23,239	n.a.
Calcium nitrate	—	—	882	1,312	1,929	n.a.
Other nitrogen fertilizers	30,418	30,451	23,042	29,296	38,972	n.a.
Mixed fertilizers	5,639	6,029	7,879	8,858	8,619	n.a.
France (e)—						
(N content)						
Ammonium sulphate	74,200	79,600	71,800	86,300	87,400	84,500
Cyanamide	2,881	2,533	2,859	2,347	2,573	2,350
Sodium nitrate	—	—	3	80	3	800
Calcium nitrate	37,700	39,200	32,200	41,700	35,100	32,100
Ammonium nitrate	394,800	451,000	425,800	508,600	611,400	n.a.
Ammonium phosphate (c)	—	—	700	1,500	500	n.a.
Other nitrogen fertilizers	31,800	47,100	53,100	64,100	84,800	n.a.
Mixed fertilizers	118,800	140,900	147,700	193,400	233,600	n.a.

*Includes by-product ammonium sulphate which is separately recorded as far as available on pages 83-86.

(a) Source: British Sulphate of Ammonia Federation.

(d) West Pakistan.

(b) Years ended June 30 of the year stated.

(e) Years ended April 30 of the year stated.

(c) Included with mixed fertilizers.

(f) Estimated.

PRODUCTION OF NITROGEN COMPOUNDS (cont.)

Long tons

Producing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (Federal)—						
Chemical nitrogen						
<i>(N content)</i>						
Fertilizer	1,124,441	1,154,680	1,201,683	1,244,842	1,339,555	1,426,323
Technical use	231,775	258,164	277,163	330,800	356,399	n.a.
Germany (East)—						
<i>(N content)</i>						
Ammonium sulphate	172,350	170,405	173,669	168,705	168,717	161,251
Cyanamide	15,752	16,401	15,947	17,854	17,215	16,685
Lime ammonium nitrate	117,687	119,377	117,790	119,436	121,073	123,427
Potassium ammonium nitrate	12,614	13,420	12,492	5,324	15,800	17,658
Hungary—						
Nitrogen fertilizers	324,870	347,533	380,839	441,674	711,000	803,000
Iceland (a)—						
Ammonium nitrate	7,000	7,300	6,400	6,600	6,400	n.a.
<i>(N content)</i>						
Italy—						
Ammonium sulphate	1,342,846	1,315,190	1,312,500	1,313,346	1,468,058	1,609,749
Ammonium sulpho-nitrate	—	28,299	59,110	43,109	48,703	59,211
Cyanamide	77,449	119,298	111,750	81,181	84,976	121,439
Sodium nitrate	9,418	7,534	6,873	8,728	8,781	6,951
Potassium nitrate	6,762	9,441	17,419	71,160	11,546	13,144
Calcium nitrate	334,189	324,875	331,488	354,159	336,605	315,769
Ammonium nitrate	793,523	779,442	707,020	r 584,634	770,889	654,364
Di-ammonium phosphate	243,097	339,535	387,151	491,722	456,831	487,161
Ammonium phosphate						
Netherlands (a)—						
<i>(N content)</i>						
Ammonium sulphate	75,200	79,800	69,900	69,900	68,600	n.a.
Ammonium nitrate	219,400	214,000	214,000	269,900	304,300	n.a.
Calcium nitrate	28,100	20,500	23,600	24,600	22,900	n.a.
Other nitrogen fertilizers	56,600	79,500	81,700	72,800	98,200	n.a.
Mixed fertilizers	31,000	34,700	60,600	30,800	24,900	n.a.
Norway—						
Cyanamide	4,058	2,788	4,104	4,713	4,261	4,392
Ammonium nitrate	12,350	13,856	14,034	18,455	19,596	22,270
Calcium nitrate	1,145,270	1,576,278	1,161,066	1,160,136	1,154,272	1,166,284
Sodium nitrate	2,740	3,015	1,402	1,775	1,401	—
Lime ammonium nitrate	94,535	115,266	95,265	118,356	147,101	39,821
Poland—						
Ammonium sulphate	145,000	159,000	170,000	194,000	217,000	246,000
Cyanamide	178,000	161,000	149,000	179,000	165,000	n.a.
"Saletrzak"	537,000	571,000	613,000	634,000	601,000	675,000
Portugal—						
Cyanamide	14,875	5,511	10,369	8,724	8,174	9,850
Ammonium sulphate	177,721	178,479	244,985	240,856	273,301	247,649
Ammonium nitrate	62,723	82,766	166,092	195,646	194,329	200,200
Calcium nitrate	5,475	17,042	15,499	20,367	22,859	14,271
Roumania—						
Nitrogen fertilizers	29,461	43,256	83,510	106,276	163,680	260,063
<i>(N content)</i>						
Spain—						
<i>(N content)</i>						
Cyanamide	841	775	747	764	1,353	935
Lime ammonium nitrate	39,983	49,415	65,676	74,685	90,264	129,374
Ammonium sulphate	85,495	83,180	103,840	128,382	135,100	150,259

(a) Years ended June 30 of the year stated.

PRODUCTION OF NITROGEN COMPOUNDS (cont.)

Long tons

Producing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES (cont.)						
Sweden—						
Ammonium nitrate ..	11,699	12,672	14,032	16,987	13,389	n.a.
Ammonium sulphate ..	3,326	10,059	9,369	8,446	8,160	n.a.
Cyanamide ..	26,150	17,977	9,057	714	8,297	n.a.
Lime ammonium nitrate	169,101	150,440	157,334	187,197	175,813	n.a.
Mixed fertilizers ..	85,377	92,751	141,078	176,029	220,484	n.a.
Switzerland (a)—						
<i>(N content)</i>						
Cyanamide ..	2,100	2,100	2,000	2,000	2,200	n.a.
Ammonium sulphate	5,100	4,100	5,200	5,200	5,300	n.a.
Ammonium nitrate ..	5,300	5,700	8,100	8,100	8,500	n.a.
Calcium nitrate ..	3,000	3,000	3,800	3,500	3,500	n.a.
Mixed fertilizers ..	1,800	2,100	4,000	4,000	4,000	n.a.
U.S.S.R.—						
Nitrogen fertilizers						
<i>(N content)</i> ..	1,150,000	1,392,000	1,731,000	2,066,000	n.a.	n.a.
Yugoslavia—						
Ammonium nitrate ..	24,255	20,440	11,356	n.a.	n.a.	n.a.
Ammonium sulphate ..	12,279	10,954	11,269	12,220	11,981	n.a.
Cyanamide ..	10,572	29,274	29,227	874	1,854	n.a.
Egypt—						
Ammonium nitrate ..	311,000	338,000	324,618	428,788	370,770	385,461
Calcium nitrate ..	266,935	268,323	256,916	251,288	273,258	256,614
Ammonium sulphate ..	—	—	28,375	90,205	58,768	96,260
South Africa —						
Nitrogen fertilizers						
<i>(N content)</i> ..	37,600	58,400	(b) 120,000	(b) 130,000	133,000	n.a.
Mexico—						
Ammonium sulphate ..	150,110	154,776	135,804	n.a.	185,867	210,856
Ammonium nitrate ..	69,848	121,989	136,295	n.a.	92,554	143,859
Netherlands Antilles—						
Nitrogen compounds ..	n.a.	n.a.	n.a.	102,168	129,077	n.a.
Mixed fertilisers ..	n.a.	n.a.	n.a.	38,840	46,015	n.a.
United States—						
Sulphate equivalent of ammonia produced (coke-ovens) ..	618,807	598,777	641,766	708,846	717,641	769,649
Actual ammonium sulphate (coke-ovens)	529,980	522,661	553,286	607,935	619,011	681,938
Actual ammonium sulphate (synthetic plants)	849,000	992,000	1,049,000	1,452,000	1,784,000	1,886,000
Anhydrous ammonia (synthetic plants) ..	4,649,000	5,187,231	5,975,911	6,186,332	7,777,591	9,518,883
Ammonium nitrate, original ..	2,888,000	3,041,000	3,536,000	4,056,000	4,128,000	4,489,000
Ammonium phosphate	(b) 1,103,000	(b) 1,420,000	2,353,000	2,764,000	2,601,000	3,304,000
Brazil—						
Ammonium sulphate ..	6,695	8,151	8,034	10,032	11,646	12,205
Lime ammonium nitrate	58,696	56,144	54,484	24,738	57,707	18,954
Chile—						
Sodium and potassium nitrate (natural) ..	1,092,527	1,085,129	1,117,932	1,154,386	1,140,152	1,047,081
Peru (a)—						
Nitrogen fertilizers						
<i>(N content)</i> (c) ..	(b) 49,000	(b) 61,400	(b) 65,200	n.a.	n.a.	n.a.
Formosa—						
Cyanamide ..	62,858	77,364	63,064	50,648	26,267	11,440
Ammonium sulphate ..	28,876	69,371	109,633	219,512	275,520	273,036
Nitro-phosphate ..	19,802	—	—	3,521	7,898	5,118
Nitro-chalk ..	52,177	56,743	54,221	62,148	47,843	42,382
Israel—						
Ammonium sulphate ..	32,475	65,438	68,252	78,520	76,522	75,958

(a) Years ended June 30 of the year stated.

(b) Estimated.

(c) Including guano.

PRODUCTION OF NITROGEN COMPOUNDS (cont.)

Long tons

Producing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Japan—						
Ammonium sulphate ..	2,464,079	2,470,000	2,224,000	2,256,000	2,449,000	2,612,000
Cyanamide	329,104	297,000	314,000	329,000	339,000	372,000
Ammonium nitrate ..	51,584	51,210	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ammonium chloride ..	332,531	485,965	486,656	472,398	494,490	549,540
Philippine Republic (a)—						
<i>(N content)</i>						
Ammonium sulphate	7,300	7,300	} 7,600	(b) 8,000	9,000	30,000
Ammonium phosphate	—	—				
Turkey—						
Ammonium sulphate ..	4,200	<i>n.a.</i>	87,401	62,484	90,200	91,000
Ammonium nitrate ..	<i>n.a.</i>	<i>n.a.</i>	57,865	84,556	62,900	64,000

In addition, natural nitrate of potash is known to have been produced in India and Spain and nitrified earth in China.

(a) Years ended June 30 of the year stated.

(b) Estimated.

EXPORTS OF NITROGEN COMPOUNDS

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ammonium sulphate ..	166,711	359,439	384,722	366,239	417,976	339,010
Ammonium chloride ..	16,227	11,162	11,248	13,938	11,232	11,818
Ammonium nitrate ..	487	454	3,104	11,621	14,326	17,544
Other manufactured nitrogen fertilizers ..	1,097					
Liquid ammonia ..	3,852	4,346	3,736	3,954	5,697	6,306
Anhydrous ammonia ..						
Canada—						
Ammonium sulphate ..	(£2,612,495)	(£2,376,851)	(£2,167,006)	(£2,010,432)	(£2,965,482)	(£2,747,264)
Ammonium nitrate ..	n.a.	(£3,891,663)	(£4,352,326)	(£3,654,737)	(£3,381,919)	(£2,986,401)
Other nitrogen fertilizers ..	(£7,880,620)	(£4,654,386)	(£5,241,100)	(£5,150,709)	(£4,940,746)	(£4,591,045)
Trinidad and Tobago—						
Ammonium sulphate ..	87,642	73,733	82,287	78,825	91,837	115,054
India (a)—						
Potassium nitrate ..	8	8	5	—	3	6
Sodium nitrate ..	31	32	4	3	—	—
Malaysia (West)—						
Nitrogen fertilizers ..	n.a.	n.a.	n.a.	n.a.	1,291	841
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Potassium nitrate ..	—	1	1	1	1	—
Sodium nitrate ..	56	60	246	8	26	18
Calcium nitrate ..	344	—	—	—	1	2
Ammonium sulphate ..	552,353	390,206	390,893	259,044	402,245	(b) 48,366
Ammonium chloride ..	34	106	23	35	46	77
Ammonium nitrate ..	139,345	167,488	195,161	208,985	281,521	(b) 23,776
Cyanamide ..	3,900	3,794	2,988	6,597	17,534	(b) 4,368
Anhydrous ammonia ..	n.a.	n.a.	25,887	45,952	49,138	53,692
Bulgaria—						
Nitrogen fertilizers ..	66,616	93,471	75,966	98,599	57,054	n.a.
France—						
Potassium nitrate ..	2,079	2,322	2,762	2,076	1,935	1,939
Sodium nitrate ..	1,298	455	800	571	756	686
Calcium nitrate ..	17,100	15,450	16,667	30,551	95,825	31,202
Ammonium sulphate ..	169,582	149,272	250,820	210,348	215,837	238,641
Ammonium chloride ..	58	4	4	47	52	176
Ammonium nitrate ..	124,102	206,484	46,514	44,005	53,364	63,790
Cyanamide ..	471	195	57	30	1,661	1,111
Anhydrous ammonia ..	18,294	5,138	16,040	7,858	27,289	34,468
Germany (Federal)—						
Potassium nitrate ..	11,582	12,254	12,746	14,305	13,949	14,033
Sodium nitrate ..	24,883	19,881	10,706	9,918	5,319	2,358
Calcium nitrate ..	125,679	104,923	109,446	122,481	129,820	94,796
Ammonium nitrates ..	780,638	886,430	1,012,752	700,956	448,740	563,366
Other nitrogen fertilizers ..	831,309	759,096	814,711	728,474	759,463	711,342
Germany (East)—						
Nitrogen fertilizers (b) ..	104,222	99,512	91,245	65,620	72,014	47,503
Anhydrous ammonia ..	4,546	5,102	755	811	873	977
Hungary—						
Nitrogen fertilizers ..	40,835	25,313	—	—	—	—
Italy—						
Potassium nitrate ..	971	925	910	80	999	2,476
Sodium nitrate ..	38	15	477	r 65	135	111
Calcium nitrate ..	9,635	12,795	16,999	r 4,669	1,986	396
Ammonium nitrate ..	r 431,691	553,468	411,979	r 197,956	352,112	206,249
Ammonium sulphate ..	r 808,738	r 674,536	908,035	728,796	746,339	754,055
Cyanamide ..	1,282	r 514	3,451	1,769	6,826	n.a.

(a) Years ended March 31 following that stated.

(b) N content.

EXPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Netherlands—						
Potassium nitrate ..	84	134	70	104	421	639
Sodium nitrate ..	188	63	274	240	372	610
Calcium nitrate ..	63,887	47,774	37,502	48,750	45,422	7,621
Ammonium sulphate ..	183,802	296,552	363,209	277,931	354,270	47,552
Ammonium chloride ..	110	66	22	30	129	156
Ammonium nitrate ..	342,237	314,819	154,942	120,442	172,137	37,773
Lime ammonium nitrate						
Anhydrous ammonia ..	3,881	2,053	2,140	2,283	5,013	37,845
Norway—						
Sodium nitrate ..	2,405	1,912	1,625	1,901	—	<i>n.a.</i>
Calcium nitrate ..	1,117,534	1,119,803	1,173,265	1,138,565	1,231,470	1,005,686
Ammonium nitrate ..	1,630	2,624	7,422	8,549	6,813	5,412
Cyanamide ..	1,372	536	1,718	1,215	1,471	1,241
Anhydrous ammonia ..	385	185	849	737	2,798	2,585
Poland—						
Ammonium chloride ..	3,105	<i>n.a.</i>	4,335	3,614	3,595	4,326
Nitrogen fertilizers ..	46,105	<i>n.a.</i>	19,979	25,500	44,000	41,000
Portugal—						
Ammonium sulphate ..	36,928	36,726	39,294	44,808	25,233	37,106
Ammonium nitrate ..	113	24	23,146	56,754	34,055	30,240
Sodium nitrate ..	99	458	73	140	245	—
Calcium nitrate ..	1,179	4,440	8,391	10,257	9,198	3,614
Sweden—						
Ammonium nitrate ..	187	185	278	1,370	648	1,520
Switzerland—						
Potassium and sodium nitrates (purified) ..	3	—	—	—	—	4
Ammonium sulphate, etc. ..	10,041	11,883	20,046	26,519	28,589	31,271
U.S.S.R.—						
Ammonium nitrate ..	126,900	75,400	157,000	41,800	8,200	71,000
Ammonium sulphate ..	265,900	397,400	404,000	220,300	325,200	488,000
Yugoslavia—						
Ammonium nitrate ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	415	1,057
Lime ammonium nitrate	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	4,921
Cyanamide ..	—	598	2,181	46	262	975
United States—						
Sodium nitrate ..	1,087	852	2,129	848	416	562
Ammonium nitrate ..	26,676	37,699	22,386	78,783	92,604	77,675
Ammonium sulphate ..	128,973	480,816	437,812	431,950	858,572	1,437,553
Other nitrogen fertilizers ..	16,201	55,962	11,877	53,953	30,857	22,000
Nitrogen phosphatic fertilizers ..	69,202	107,607	165,430	324,211	285,404	689,000
Anhydrous ammonia (a)	91,444	53,096	67,215	132,571	164,467	201,753
Chile—						
Sodium nitrate ..	1,012,080	822,000	895,704	870,154	907,664	792,481
Potassium nitrate ..	67,301	60,422				
Israel—						
Anhydrous ammonia ..	1,156	2,762	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Cyanamide ..	313	280	13	19,807	44,406	48,025
Ammonium nitrate ..	2,359	11,392	5,892	8,300	20,572	13,587
Ammonium chloride ..	52,670	63,207	322	234,773	176,910	302,097
Ammonium sulphate ..	792,563	850,923	1,207,225	833,218	1,242,930	1,172,469
Anhydrous ammonia ..	134	50	81	253	595	5,760
Other nitrogen fertilizers	3,042	60,805	6,456	37,350	31,742	62,001

(a) Ammonia content.

IMPORTS OF NITROGEN COMPOUNDS

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Natural sodium nitrate ..	19,775	15,201	13,347	14,952	17,915	19,143
Manufactured fertilizers—						
Nitrogenous	204,663	199,274	314,539	292,196	272,183	180,518
Ammonium phosphate ..	17,912	14,820	10,904	11,557	3,429	3,222
Potassium nitrate ..	3,368	3,434	2,793	3,029	3,026	4,004
Malta—						
Ammonium sulphate ..	2,468	1,131	2,367	2,118	931	561
Gambia—						
Ammonium sulphate ..	2	—	—	—	—	—
Ghana—						
Ammonium sulphate ..	207	513	79,436	757	855	5,018
Other nitrogen fertilizers	426	94	7	7	4	—
Kenya—						
Ammonium sulphate ..	7,544	6,814	4,652	12,157	20,586	8,531
Other nitrogen fertilizers	7,914	10,317	12,916	19,502	26,552	21,668
Malawi—						
Ammonium sulphate ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	6,097	7,806	<i>n.a.</i>
Ammonium nitrate ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	41	200	<i>n.a.</i>
Mauritius—						
Nitrogen fertilizers ..	34,860	41,861	36,743	26,908	20,393	14,415
Nigeria—						
Ammonium sulphate ..	996	3,448	3,040	8,821	14,601	10,948
Other nitrogen fertilizers	129	218				
Rhodesia (a)—						
Ammonium sulphate ..	33,528	35,720	31,964	53,522	53,996	<i>n.a.</i>
Other nitrogen fertilizers	42,038	47,856	53,668	61,565	71,713	<i>n.a.</i>
Sierra Leone—						
Ammonium sulphate ..	126	322	571	1	43	388
Tanzania—						
Ammonium sulphate ..	3,036	3,113	3,465	8,077	8,679	7,976
Other nitrogen fertilizers	631	1,959	3,180	5,118	5,981	5,941
Uganda—						
Ammonium sulphate ..	3,868	1,579	2,905	5,015	5,457	5,356
Other nitrogen fertilizers	2,940	2,040	505	1,195	858	447
Zambia—						
Ammonium sulphate ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	2,111	11,052	1,134
Ammonium nitrate ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	472	616	3,987
Canada—						
Potassium nitrate ..	818	815	760	789	1,308	1,443
Sodium nitrate ..	14,604	15,195	14,955	18,044	19,958	22,997
Ammonium sulphate ..	8,875	12,635	12,731	15,739	13,814	15,278
Ammonium chloride ..	276	261	229	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ammonium nitrate ..	578	67	45	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Anhydrous ammonia ..	6,027	1,095	2,903	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Other nitrogen fertilizers	592	888	691	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Antigua—						
Nitrogen fertilizers ..	808	—	<i>n.a.</i>	3	—	1
Barbados—						
Nitrogen fertilizers ..	11,024	12,303	12,118	13,683	8,567	10,225
Grenada—						
Ammonium sulphate ..	450	595	827	392	372	283
Other nitrogen fertilizers	1,076	855	690	176	490	77
Jamaica—						
Ammonium sulphate ..	24,137	22,522	25,306	33,485	23,188	14,364
Other nitrogen fertilizers ..	2,606	1,099	2,681	2,139	1,651	6,529
St. Kitts—						
Nitrogen fertilizers ..	2,155	2,306	2,202	2,616	2,433	2,370
St. Lucia—						
Nitrogen fertilizers ..	640	445	899	849	442	311

(a) Figures for years 1961 to 1963 relate to Rhodesia and Nyasaland.

IMPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES (cont.)						
St. Vincent—						
Ammonium sulphate ..	1,135	868	420	205	871	799
Trinidad and Tobago—						
Ammonium sulphate ..	—	(c) 390	n.a.	n.a.	200	n.a.
Guyana—						
Ammonium sulphate ..	19,855	20,703	n.a.	16,923	21,431	23,617
Ceylon—						
Natural sodium nitrate ..	25	59	99	61	270	12
Ammonium sulphate ..	138,588	170,669	166,419	179,036	182,490	175,528
Ammonium nitrate ..	220	181	180	334	206	7,899
Cyanamide ..	78	24	—	—	25	—
Cyprus—						
Ammonium sulphate ..	21,256	21,798	26,660	14,872	17,419	28,528
Other nitrogen fertilizers	10,819	9,293	15,945	11,543	13,423	15,082
Hong Kong—						
Potassium nitrate ..	299	684	626	423	404	341
Sodium nitrate ..	515	531	596	723	826	947
Ammonium sulphate ..	5,352	4,862	242	892	659	727
Synthetic nitrates ..	236	10	94	45	255	608
Ammonium chloride ..	(c) 153	1,051	1,219	1,055	932	1,044
India (a)—						
Potassium nitrate ..	6	19	2	2	—	5
Sodium nitrate ..	19,844	21,771	18,929	9,398	15,545	14,718
Ammonium sulphate ..	238,243	564,238	444,729	445,983	826,596	983,123
Ammonium nitrate ..	12,881	10,114	1,486	1,032	863	33,201
Ammonium phosphate ..	8	9,846	23,581	35,632	46,636	128,902
Ammonium chloride ..	11	1	7	2	2,977	6,957
Other nitrogen fertilizers	43,380	20,365	26,826	6,553	22,856	65,301
Malaysia (West)—						
Nitrogen fertilizers ..	n.a.	n.a.	n.a.	n.a.	139,140	152,759
Anhydrous ammonia ..	n.a.	n.a.	n.a.	n.a.	6,197	6,588
Pakistan—						
Sodium nitrate ..	160	241	88	n.a.	n.a.	n.a.
Ammonium sulphate ..	103,860	107,164	150,873	n.a.	n.a.	n.a.
Ammonium chloride ..	523	443	329	154	n.a.	n.a.
Anhydrous ammonia ..	83	24	46	n.a.	n.a.	n.a.
Sabah—						
Ammonium sulphate ..	327	728	595	n.a.	n.a.	n.a.
Other nitrogen fertilizers	115	35	13	1,979	2,076	1,236
Sarawak—						
Ammonium sulphate ..	290	3,698	3,568	n.a.	7,069	5,731
Other nitrogen fertilizers	177	358	244	6,680		
Australia (b)—						
Potassium nitrate ..	519	355	424	403	470	422
Sodium nitrate ..	5,670	7,709	5,611	8,939	7,215	6,506
Sodium and potassium nitrate ..	572	1,481	2,183	1,500	4,499	1,120
Ammonium chloride ..	90	1,162	1,424	1,517	2,039	1,475
Ammonium sulphate ..	110	17,493	37,458	117,593	71,406	52,558
Ammonium nitrate ..	469	576				
Other nitrogen fertilizers	n.a.	n.a.	n.a.	n.a.	n.a.	1,055
Fiji—						
Nitrogen fertilizers ..	n.a.	n.a.	18,648	29,014	28,518	18,105
New Zealand—						
Potassium nitrate ..	196	116	(b) 128	(b) 166	(b) 184	(b) 185
Sodium nitrate ..	3,781	2,320	(b) 85	(b) 121	(b) 3,790	(b) 3,923
Calcium nitrate ..	n.a.	n.a.	(b) 639	(b) 644	(b) 1,362	n.a.
Ammonium sulphate ..	8,226	6,608	(b) 9,850	(b) 6,745	(b) 13,723	(b) 12,557
Ammonium chloride ..	784	n.a.	n.a.	(b) 1,750	(b) 2,034	n.a.
Ammonium nitrate ..	5,624	1,913	(b) 942	(b) 1,025	(b) 771	(b) 1,886
Anhydrous ammonia ..	38	83	(b) 114	(b) 92	(b) 147	(b) 127
Cyanamide ..	—	23	(b) 45	(b) 376	(b) 267	n.a.

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

(c) Excess of re-exports.

IMPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
Irish Republic—						
Sodium nitrate ..	4,316	4,350	2,865	2,166	973	917
Ammonium sulphate ..	94,358	97,135	124,531	120,327	81,960	13,589
Anhydrous ammonia ..	110	113	119	133	14,398	3,843
Ammonium nitrate ..	26,449	29,063	39,147	28,996	27,407	8,363
Other nitrogen fertilizers	699	427	3,267	8,879	4,714	3,164
OTHER COUNTRIES						
Austria—						
Calcium nitrate ..	927	798	861	807	610	440
Potassium nitrate ..	428	320	399	385	507	547
Cyanamide ..	2,251	2,949	2,758	2,211	1,775	1,629
Belgium-Luxemburg						
E.U.—						
Potassium nitrate ..	2,279	2,156	2,631	2,809	2,607	2,519
Sodium nitrate ..	22,876	23,910	22,619	33,514	17,913	29,152
Calcium nitrate ..	5,816	10,299	7,437	8,890	9,571	(a) 1,090
Cyanamide ..	479	384	455	501	2,082	(a) 992
Ammonium sulphate ..	7,808	11,142	12,105	15,729	22,603	(a) 6,569
Ammonium chloride ..	1,892	2,314	2,064	2,567	2,449	3,131
Ammonium nitrate ..	24,162	21,705	82,758	82,477	108,210	(a) 10,097
Anhydrous ammonia ..	n.a.	n.a.	1,178	1,759	5,241	13,892
Bulgaria—						
Nitrogen fertilizers ..	n.a.	24,300	69,100	5,400	100	n.a.
Czechoslovakia—						
Nitrogen fertilizers (a)	37,000	21,000	43,000	49,000	49,000	40,000
Denmark—						
Potassium nitrate ..	879	1,034	1,206	1,335	1,295	1,314
Sodium nitrate ..	16,092	11,079	25,567	37,275	32,067	18,258
Calcium nitrate ..	728,911	727,037	669,238	580,497	539,356	424,969
Ammonium sulphate ..	10,501	9,975	9,312	9,689	7,047	6,212
Ammonium chloride ..	966	695	1,086	954	1,215	1,453
Ammonium nitrates ..	14,728	25,279	23,718	58,368	44,449	11,988
Cyanamide ..	160	120	174	141	116	59
Finland—						
Potassium nitrate ..	263	383	168	528	552	461
Sodium nitrate ..	386	356	3,078	2,244	360	643
Calcium nitrate ..	69,352	60,311	61,758	86,283	65,344	52,117
Ammonium nitrate ..	33,327	2,918	13,657	7,508	31,053	5,035
Ammonium sulphate ..	34,221	34,336	40,031	38,158	50,364	62,431
Ammonium chloride ..	1,002	694	606	1,153	1,517	1,055
France—						
Sodium nitrate ..	66,823	63,885	49,685	64,820	45,591	30,920
Calcium nitrate ..	—	119	485	660	1,419	594
Ammonium sulphate ..	22,977	25,007	43,270	49,008	38,465	50,306
Ammonium nitrate ..	3,768	39,402	14,010	8,329	3,335	4,226
Ammonium chloride ..	1,572	1,710	1,961	2,171	1,890	1,835
Anhydrous ammonia ..	7,030	9,530	27,224	39,959	41,759	51,642
Cyanamide ..	192	492	2,582	4,171	5,251	6,448
Germany (Federal)—						
Potassium nitrate ..	756	1,069	1,188	2,202	3,019	4,577
Sodium nitrate ..	13,021	12,859	11,712	11,173	464	897
Ammonium nitrates ..	21,074	26,817	81,006	117,580	146,335	196,745
Ammonium chloride ..	21	158	359	860	1,504	n.a.
Other nitrogen fertilizers	25	2,182	517	791	9,213	35,865
Greece—						
Potassium nitrate ..	89	95	79	104	167	79
Sodium nitrate ..	2,362	2,882	6,084	5,597	5,110	13,913
Ammonium nitrate ..	49,145	40,174	56,869	38,671	54,587	11,367
Ammonium sulphate ..	129,696	159,907	182,769	125,699	105,746	104,788
Ammonium chloride ..	186	250	206	171	123	212
Lime ammonium nitrate	56,778	74,484	74,049	64,034	30,435	28,186
Other nitrogen fertilizers						
Anhydrous ammonia ..	280	407	11,976	1,759	5,600	5,856

(a) N content.

IMPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES (cont.)						
Hungary—						
Nitrogen fertilizers ..	147,779	299,208	463,763	475,095	310,000	265,000
Iceland—						
Calcium nitrate	177	198	—	5	1	—
Lime ammonium nitrate ..	—	30	6,308	10,266	11,303	6,842
Nitrophoska	2,116	—	—	4,486	—	—
Italy—						
Potassium nitrate	758	r 728	1,027	r 2,081	1,501	1,523
Sodium nitrate	r 15,335	r 10,688	4,724	r 140	85	1,365
Ammonium chloride	444	488	1,492	r 1,398	1,059	1,005
Ammonium nitrate	3,284	3,397	2,999	2,616	1,743	2,535
Ammonium sulphate	853	r 850	4,043	112	115	219
Cyanamide	r 13	324	1,372	—	—	—
Netherlands—						
Potassium nitrate	1,841	2,477	2,807	2,914	3,146	3,282
Sodium nitrate	24,643	29,357	34,238	19,711	32,075	30,753
Calcium nitrate	1	13	14,042	1	1	—
Ammonium sulphate	2,009	245	2,271	455	650	230
Ammonium chloride	1,401	1,460	1,481	1,779	2,043	1,797
Ammonium nitrate	} 67,371	} 78,408	} 95,343	} 379	} 303	} 198
Lime ammonium nitrate ..						
Cyanamide	3,221	3,300	1,369	2,273	4,855	636
Anhydrous ammonia	n.a.	119	13,629	19,021	27,078	3,436
Other nitrogen fertilizers ..	17,797	16,060	7,113	35	681	1,835
Norway—						
Potassium nitrate	156	215	178	164	240	234
Ammonium chloride	331	336	412	416	467	554
Ammonium sulphate	354	456	479	407	407	466
Anhydrous ammonia	—	13,612	9,310	36,801	20,325	24,098
Poland—						
Nitrogen fertilizers	27,400	n.a.	49,300	50,200	280,000	86,000
Portugal—						
Potassium nitrate	402	291	296	286	430	459
Sodium nitrate	8,050	4,594	12,524	3,100	604	524
Calcium nitrate	6,681	—	—	—	—	—
Ammonium sulphate	28,145	—	10,039	24	4,472	50
Ammonium chloride	167	102	137	153	143	173
Ammonium nitrate	5,918	1,575	443	10	10	49
Cyanamide	—	—	—	—	1,947	—
Nitrophoska	11,853	15,022	14,672	8,326	n.a.	n.a.
Anhydrous ammonia	15,849	2,872	12,823	—	1,982	—
Roumania—						
Nitrogen fertilizers (a)	4,400	1,200	3,445	1,900	—	100
Spain—						
Sodium nitrate	83,605	135,790	118,147	123,170	120,295	118,715
Ammonium sulphate	513,250	591,856	454,349	519,116	469,619	193,778
Calcium nitrate	83,422	131,325	126,785	143,124	126,056	149,497
Other nitrogen fertilizers ..	59,974	38,802	55,740	40,637	61,110	33,876
Anhydrous ammonia	419	1,839	2,847	1,627	5,405	14,892
Sweden—						
Potassium nitrate	873	1,129	1,005	1,122	1,206	1,636
Sodium nitrate	39,410	27,813	24,815	31,160	33,523	27,361
Calcium nitrate	328,165	352,820	352,660	376,481	403,984	457,808
Ammonium nitrate	79	36	156	325	357	22
Ammonium sulphate	16,500	9,281	11,347	14,233	7,828	4,224
Ammonium chloride	1,182	1,215	1,055	1,265	1,521	1,191
Switzerland—						
Potassium and sodium nitrates ..	604	842	933	925	944	1,093
Ammonium sulphate, etc.	544	607	501	683	827	827
Ammonium chloride	830	793	889	993	1,080	832
Ammonium and calcium nitrates ..	218	253	5,266	264	176	446

(a) N content.

IMPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Yugoslavia—						
Sodium nitrate ..	40	207	162	28,276	4,529	1,350
Ammonium sulphate ..	19,988	46,480	95,072	97,250	101,813	134,346
Ammonium nitrate ..	129	12,861	10,801	9,428	1,798	497
Lime ammonium nitrate	314,847	467,631	414,818	327,259	129,848	251,618
Other nitrogen fertilizers	15	85	6,107	28,009	1,798	225
Angola—						
Sodium nitrate ..	268	221	136	273	35	190
Ammonium nitrate ..	1,669	1,257	913	1,284	816	1,257
Ammonium sulphate ..	3,887	4,811	5,443	6,309	8,666	9,888
Cameroun—						
Nitrogen fertilizers ..	6,319	10,743	12,976	32,859	22,037	<i>n.a.</i>
Canary Islands—						
Ammonium sulphate ..	51,095	62,688	50,112	62,396	55,495	43,432
Calcium nitrate ..	549	689	196	1,034	747	936
Other nitrogen fertilizers	5,722	6,249	3,622	3,246	2,117	6,784
Central African Republic	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	803	1,937	436
Congo, Republic of ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,141	1,059	1,265
Egypt—						
Sodium nitrate ..	36,805	248	10	139	71	<i>n.a.</i>
Calcium nitrate ..	—	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ammonium sulphate ..	195,325	60,374	<i>r</i> 167,117	<i>r</i> 267,793	387,378	416,170
Ammonium chloride ..	299	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ammonium nitrate ..	181,313	44,293	15,324	32,173	51,446	9,844
Ammonium sulpho-nitrate ..	—	187,760	<i>r</i> 29,531	<i>r</i> 26,083	10,779	<i>n.a.</i>
Other nitrogen fertilizers	<i>n.a.</i>	<i>n.a.</i>	133,799	78,275	98,515	82,773
Malagasy Republic—						
Nitrogen fertilizers ..	2,150	1,376	1,049	1,803	1,776	2,862
Morocco—						
Potassium nitrate ..	62	308	231	254	216	<i>n.a.</i>
Sodium nitrate ..	293	228	467	133	71	<i>n.a.</i>
Calcium nitrate ..	524	829	745	458	220	<i>n.a.</i>
Ammonium nitrate ..	12,467	16,329	7,156	3,626	6,861	<i>n.a.</i>
Ammonium sulphate ..	18,984	24,240	24,215	31,378	29,359	<i>n.a.</i>
Other nitrogen fertilizers	1,676	3,949	8,443	11,192	9,296	<i>n.a.</i>
Reunion—						
Nitrogen fertilizers ..	10,794	7,797	9,967	10,688	10,147	4,912
South Africa—						
Potassium nitrate ..	605	849	1,273	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sodium nitrate ..	1,459	1,008	983	<i>n.a.</i>	<i>n.a.</i>	1,043
Ammonium sulphate ..	50,833	60,599	117,179	131,247	42,197	24,326
Ammonium chloride ..	2,116	801	1,111	820	1,636	1,783
Ammonium nitrate ..	33,626	21,957	49,355	738	3,044	993
Sudan—						
Sodium, calcium and ammonium nitrates (synthetic) ..	26,233	62,019	14,387	25,484	59,815	30,573
Other nitrogen fertilizers	41,521					
Tunisia—						
Nitrogen fertilizers ..	12,596	13,289	25,869	24,613	16,253	19,814
Costa Rica—						
Nitrogen fertilizers ..	13,416	16,613	11,487	11,948	82,496	29,245
Dominican Republic—						
Ammonium sulphate ..	33,938	17,290	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
French West Indies—						
Guadeloupe—						
Nitrogen fertilizers ..	3,194	1,578	2,165	2,248	2,887	2,059
Martinique—						
Nitrogen fertilizers ..	10,436	8,310	8,132	7,605	6,648	7,157
Guatemala—						
Sodium nitrate ..	1,019	299	20	153	60	1
Other nitrogen fertilizers	10,872	7,291	16,216	16,907	33,087	31,191

IMPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
(cont.)						
Honduras—						
Nitrogen fertilizers ..	11,731	11,936	12,410	14,565	20,728	15,647
Mexico—						
Sodium nitrate ..	8,571	9,125	3,074	356	13,183	14,415
Ammonium chloride ..	837	343	—	1	332	45
Ammonium sulphate ..	1	3	4	8,264	69,039	55,637
Ammonium nitrate ..	11,411	826	6,129	18,834	41,870	24,387
Anhydrous ammonia ..	62,983	34,785	51,043	73,150	102,383	126,228
Nicaragua—						
Sodium nitrate ..	101	n.a.	389	423	124	—
Other nitrogen fertilizers	6,266	11,777	11,777	3,831	27,163	18,562
Panama Republic—						
Nitrogen fertilizers ..	14,670	11,465	15,319	19,007	n.a.	n.a.
Salvador—						
Sodium nitrate ..	1,069	1,383	592	267	12	248
Other nitrogen fertilizers	52,886	50,026	76,450	100,810	73,646	56,936
United States—						
Potassium and sodium						
nitrates, crude ..	12,322	27,301	34,000	12,052	6,615	36,000
Potassium nitrate ..	3,961	3,187	3,970	2,824	4,377	24,617
Sodium nitrate ..	441,379	434,000	106,737	324,300	349,949	286,841
Calcium nitrate ..	65,837	51,935	37,210	48,875	29,643	34,131
Ammonium sulphate ..	216,845	215,177	209,381	185,682	161,490	143,000
Ammonium chloride ..	5,268	4,607	2,311	n.a.	2,916	n.a.
Ammonium nitrate ..	222,521	302,322	185,375	212,552	159,796	137,000
Ammonium phosphates	100,887	75,034	115,812	85,845	155,768	160,000
Cyanamide ..	37,488	32,987	25,800	21,428	16,713	16,904
Argentina—						
Potassium nitrate ..	68	2	—	—	—	97
Sodium nitrate ..	16,352	13,791	9,845	10,667	10,590	8,935
Ammonium sulphate ..	12,580	4,324	23,866	38,110	45,081	2,172
Ammonium chloride ..	1,234	1,354	1,003	2,576	1,589	1,516
Brazil—						
Potassium nitrate ..	749	802	777	750	894	739
Sodium nitrate ..	53,131	32,122	34,309	25,304	30,628	27,649
Potassium and sodium						
nitrates ..	2,989	12,104	16,429	7,171	21,296	18,411
Ammonium chloride ..	1,617	1,948	1,363	2,078	1,104	2,540
Ammonium nitrate ..	8,884	5,758	2,180	7,577	100	—
Ammonium sulphate ..	124,441	115,893	178,611	141,295	206,667	234,346
Cyanamide ..	133	165	—	90	41	104
Other nitrogen fertilizers	9,685	7,324	6,876	9,483	4,294	9,999
Chile—						
Ammonium chloride ..	566	496	361	n.a.	57	n.a.
Ammonium sulphate ..	354	170	657	n.a.	525	n.a.
Ammonium nitrate ..	7,368	7,866	20,179	n.a.	20,029	n.a.
Anhydrous ammonia ..	109	50	43	n.a.	93	n.a.
Colombia—						
Potassium nitrate ..	247	208	401	196	87	498
Sodium nitrate ..	30	384	1,551	20	20	10
Ammonium chloride ..	540	478	684	606	229	375
Ammonium sulphate ..	9,728	4,758	4,508	491	—	4,020
Other nitrogen fertilizers	19,766	17,047	14,442	6,745	203	2,076
Anhydrous ammonia ..	133	207	122	2	5	5
Ecuador—						
Nitrogen fertilizers ..	4,322	3,656	5,873	8,857	11,633	n.a.
Peru—						
Potassium nitrate ..	76	63	9	95	156	141
Sodium nitrate ..	6,254	5,696	4,651	6,508	5,430	2,416
Anhydrous ammonia ..	37	24	46	65	16	28
Other nitrogen fertilizers	107,720	121,955	93,901	85,678	109,833	34,830
Uruguay—						
Potassium nitrate ..	n.a.	n.a.	n.a.	n.a.	7	11
Sodium nitrate ..	n.a.	n.a.	n.a.	n.a.	19	510
Ammonium sulphate ..	n.a.	n.a.	n.a.	n.a.	5,303	8,351

IMPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Venezuela—						
Potassium nitrate ..	172	105	210	177	140	414
Sodium nitrate ..	377	478	120	215	184	182
Calcium nitrate ..	4,090	—	—	—	3	—
Ammonium sulphate ..	18,894	19,146	18,562	2,267	—	10,000
Anhydrous ammonia ..	698	598	798	716	148	—
Cyanamide ..	1	—	—	49	—	—
Burma—						
Nitrogen fertilizers ..	207	180	37,079	13,911	8,934	n.a.
Formosa—						
Sodium nitrate ..	287	n.a.	440	707	1,245	1,241
Ammonium chloride ..	1,322	633	3,562	400	589	741
Ammonium sulphate ..	187,826	231,550	105,704	171,009	108,988	22,981
Other nitrogen fertilizers	46,672	71,978	83,860	75,341	71,394	45,668
Indonesia—						
Potassium nitrate ..	76	224,510	n.a.	n.a.	n.a.	n.a.
Sodium nitrate ..	23		n.a.	n.a.	n.a.	n.a.
Ammonium chloride ..	575		n.a.	n.a.	n.a.	n.a.
Ammonium sulphate ..	116,902		n.a.	n.a.	n.a.	n.a.
Anhydrous ammonia ..	1,654		n.a.	n.a.	n.a.	n.a.
Other nitrogen fertilizers	57,216		n.a.	n.a.	n.a.	n.a.
Iran (a)—						
Ammonium chloride ..	n.a.	490	185	258	105	286
Nitrogen fertilizers ..	8,960	5,205	7,503	4,706	7,987	7,173
Iraq—						
Nitrogen fertilizers ..	3,932	6,680	8,337	9,117	n.a.	n.a.
Israel—						
Nitrogen fertilizers ..	—	19,916	n.a.	2,116	2,517	1,932
Japan—						
Sodium nitrate ..	20,285	18,701	20,143	20,408	22,243	21,659
Ammonium sulphate ..	886	2	n.a.	n.a.	n.a.	n.a.
Jordan—						
Nitrogen fertilizers ..	1,958	2,628	4,521	2,523	3,617	6,840
Korea (South)—						
Ammonium sulphate ..	573,008	602,762	600,023	204,738	339,828	79,732
Ammonium nitrate ..	2,416	14,114	1,604	1,968	2,693	4,114
Ammonium chloride ..	461	n.a.	n.a.	n.a.	n.a.	n.a.
Cyanamide ..	1,806	n.a.	n.a.	n.a.	n.a.	n.a.
Other nitrogen fertilizers	n.a.	n.a.	58,920	144,791	51,833	112,521
Lebanon—						
Nitrogen fertilizers ..	42,275	30,431	52,983	52,744	50,005	59,334
Philippine Republic—						
Potassium nitrate ..	n.a.	n.a.	28	218	n.a.	n.a.
Sodium nitrate ..	309	1,123	732	289	69	n.a.
Ammonium phosphate ..	24,858	19,708	6,882	15,966	27,711	n.a.
Ammonium sulphate ..	60,050	102,754	30,844	85,553	95,943	n.a.
Other nitrogen fertilizers	33,283	35,785	10,122	60,380	27,818	n.a.
Syria—						
Nitrogen fertilizers ..	46,198	38,307	n.a.	18,192	44,405	59,066
Thailand—						
Potassium nitrate ..	705	743	933	855	866	1,198
Ammonium chloride ..	1,358	1,297	1,533	2,016	1,998	1,991
Ammonium sulphate ..	29,621	28,520	42,349	32,311	26,525	39,181
Other nitrogen fertilizers	2,383	2,765	1,846	1,735	2,163	1,949
Turkey—						
Potassium nitrate ..	59	74	296	211	267	587
Sodium nitrate ..	1,434	348	952	1,688	4,144	1,868
Ammonium chloride ..	775	507	359	511	584	646
Ammonium sulphate ..	121,679	136,731	15,922	31,979	126,829	259,482
Ammonium nitrate ..	2,038	6,302	63	146	9,957	48,026
Vietnam (South)—						
Nitrogen fertilizers ..	48,582	53,504	182,372	n.a.	n.a.	n.a.

(a) Years ended March 20 of year following that stated.

PETROLEUM AND ALLIED PRODUCTS
PRODUCTION OF CRUDE PETROLEUM*

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Crude petroleum	105,800	110,900	122,800	127,400	82,400	76,800
Shale oil	43,100	15,500	—	—	—	—
Nigeria (b)	2,302,000	3,373,000	3,824,000	6,027,000	13,564,000	20,881,000
Canada (b)	29,446,411	32,548,687	34,354,904	36,612,711	39,437,267	42,856,000
Barbados (b)	241	18	3	—	—	—
Trinidad (b)	6,538,253	6,982,306	6,954,038	7,103,495	6,979,848	7,943,355
Abu Dhabi (c)	—	729,000	2,350,000	5,928,853	9,010,743	12,053,582
Bahrain Islands (c) ..	2,213,000	2,213,000	2,227,000	2,402,000	2,789,000	3,021,000
Brunei	4,015,618	3,720,253	3,383,789	3,488,000	3,874,000	4,619,000
India	502,000	1,001,657	1,626,560	2,177,240	2,980,000	4,570,000
Pakistan (b)	393,000	463,700	474,900	504,400	520,000	500,000
Qatar (c)	8,249,305	8,670,919	8,953,349	8,802,292	9,013,660	8,915,387
Sarawak	59,498	57,274	51,126	48,243	48,125	47,336
Australia	—	—	—	274,258	329,041	425,437
New Zealand	627	569	570	581	616	521
TOTAL	53,869,000	59,887,000	64,323,000	73,496,000	88,629,000	105,909,000
OTHER COUNTRIES						
Albania	758,744	772,807	738,935	751,661	805,000	<i>n.a.</i>
Austria	2,318,657	2,355,883	2,578,480	2,620,829	2,809,460	2,713,568
Bulgaria	203,000	196,000	170,000	157,000	225,000	398,000
Czechoslovakia	152,000	174,000	177,000	192,000	189,000	187,000
France	2,129,211	2,327,419	2,476,219	2,792,152	2,930,890	2,886,000
Germany (Federal)—						
Crude petroleum	6,106,467	6,669,330	7,266,112	7,551,440	7,759,378	7,743,949
Shale oil	15,946	1,899	—	—	—	—
Hungary	1,433,945	1,614,641	1,729,562	1,772,522	1,775,000	1,679,000
Italy	1,940,497	1,777,353	1,756,007	2,627,143	2,193,654	1,783,263
Netherlands	2,014,169	2,123,000	2,180,000	2,230,000	2,357,400	2,331,000
Poland	199,400	199,300	209,100	277,500	333,400	394,100
Roumania	11,399,107	11,676,293	12,040,000	12,199,000	12,372,000	12,622,000
Sweden—						
Shale oil	105,519	99,187	78,078	79,763	56,465	25,000
U.S.S.R.	163,445,000	183,303,000	202,814,000	220,072,000	239,052,000	263,570,000
Yugoslavia	1,319,574	1,501,393	1,585,181	1,770,194	2,030,497	2,187,075
Algeria (e)	15,419,724	20,174,000	23,273,000	25,817,000	25,614,000	32,736,000
Angola	102,780	463,793	787,028	890,468	645,014	621,348
Congo (Republic of) ..	101,313	121,440	107,495	31,987	70,000	61,013
Egypt	3,759,000	4,602,000	5,504,000	6,254,000	6,385,000	6,170,000
Gabon	762,217	813,958	875,629	1,041,650	1,244,474	1,424,000
Libya	861,000	8,691,000	21,748,000	40,913,000	57,550,000	71,100,000
Morocco	78,740	125,296	147,534	117,877	101,265	101,344
Senegal	2,100	400	—	—	—	—
South Africa—						
Shale oil (a)	6,045	—	—	—	—	—
Cuba (b) (d)	12,000	13,000	10,000	40,000	40,000	40,000
Mexico (b)	15,040,000	15,750,000	16,178,000	16,278,000	16,610,000	17,700,000
United States (b) ..	349,567,700	356,825,200	367,029,700	371,576,300	379,801,900	403,701,700
Argentina (b)	11,886,848	13,821,175	13,670,100	14,112,500	13,831,100	14,728,400
Bolivia (b)	329,800	317,200	384,500	381,700	404,800	738,453
Brazil (b)	4,462,400	4,282,000	4,578,000	4,268,000	4,400,000	5,438,000
Chile	1,189,000	1,500,000	1,695,000	1,756,000	1,630,000	1,590,000
Colombia (b)	7,500,000	7,311,000	8,499,000	8,816,324	10,312,856	10,129,089
Ecuador (b)	389,861	342,806	321,499	372,810	379,835	345,100

*Excluding Natural Gasoline. See page 242.

(a) Years ended June 30 of that stated.

(b) The following conversion rates have been used: 35 gallons=1 barrel, and the undermentioned barrels=1 ton—Nigeria 7·3, Canada 7·5, Barbados 8·1, Trinidad 7·0, Burma 7·4, Pakistan 7·2 (1961—1962) 7·4 (1963 onwards), Cuba 6·8, Mexico 7·1, United States 7·5, Argentina 7·1, Bolivia 8·2, Brazil 7·8, Colombia 7·1, Ecuador 7·5, Venezuela 7·1, Indonesia 7·5.

(c) British Protected State.

(d) Estimated.

(e) Including French Sahara.

PRODUCTION OF CRUDE PETROLEUM (cont.)

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Peru	2,546,000	2,777,000	2,822,000	3,039,000	3,032,000	3,000,000
Venezuela	149,992,000	164,370,000	166,846,000	174,765,000	178,400,000	173,172,000
Burma	569,965	590,021	642,965	562,282	549,000	474,000
China (a)	6,600,000	(e)6,500,000	(e)6,000,000	(e)6,000,000	(e)8,000,000	(e)8,500,000
Formosa	2,190	1,850	2,450	8,040	17,295	29,805
Indonesia	20,948,230	22,424,000	21,923,000	r26,430,000	27,520,000	23,150,000
Iran (b)	57,094,000	63,461,000	70,497,000	81,114,000	88,473,000	98,829,000
Iraq	48,054,764	48,214,537	55,576,822	60,350,313	63,150,413	66,679,542
Israel	r 132,822	r 132,000	r 148,000	r 202,713	206,905	184,000
Japan	642,000	743,608	767,296	642,096	660,000	765,000
Kuwait	90,721,636	81,408,294	95,666,630	105,033,846	107,322,975	112,500,000
Mongolia	26,000	23,000	19,000	18,000	16,000	n.a.
Netherlands New Guinea (c)	164,791	n.a.	n.a.	n.a.	n.a.	n.a.
Saudi Arabia	68,138,424	74,554,207	79,768,933	84,442,667	99,436,852	117,568,598
Turkey	418,071	586,004	733,168	906,864	1,510,000	2,008,884
Neutral Zone (d)	9,349,000	12,846,000	16,487,000	r18,918,000	19,043,000	21,990,000
TOTAL	1,060,000,000	1,129,000,000	1,219,000,000	r1,310,000,000	1,391,000,000	1,495,000,000
WORLD'S TOTAL	1,114,000,000	1,189,000,000	1,283,000,000	r1,384,000,000	1,480,000,000	1,601,000,000

(a) Including oil from shale and coal.

(b) 1954 Oil Agreement Area only.

(c) Exports.

(d) Neutral Zone of Kuwait and Saudi Arabia.

(e) Estimated.

PRODUCTION OF NATURAL GASOLINE

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Canada	213,068	227,380	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Trinidad (a)	21,539	22,024	19,364	22,696	22,361	21,359
Brunei	63,289	65,040	68,565	65,000	56,000	55,000
New Zealand	—	374	398	405	23	—
OTHER COUNTRIES						
Austria	<i>n.a.</i>	<i>n.a.</i>	2,000	2,000	2,000	<i>n.a.</i>
France	214,272	254,104	265,496	281,240	290,445	200,000
Germany (Federal)	13,000	12,000	12,000	10,000	8,000	<i>n.a.</i>
Italy	56,239	54,209	54,218	62,126	66,951	90,745
Poland	19,900	21,100	19,400	20,000	23,200	26,100
Roumania	302,702	315,044	343,299	346,000	375,000	<i>n.a.</i>
Yugoslavia	5,000	5,000	6,000	10,000	15,000	<i>n.a.</i>
Algeria	134,000	199,000	237,000	254,000	547,000	600,000
Egypt	9,000	9,000	7,000	7,000	5,000	<i>n.a.</i>
Mexico	1,162,000	1,127,000	1,270,000	1,612,000	1,642,000	<i>n.a.</i>
United States	11,635,440	12,027,560	12,944,890	14,174,460	14,621,880	14,911,880
Argentina	9,291	10,000	12,000	11,000	13,000	<i>n.a.</i>
Chile	18,000	48,000	60,000	59,000	<i>n.a.</i>	<i>n.a.</i>
Colombia	75,633	73,335	74,587	84,854	<i>n.a.</i>	<i>n.a.</i>
Ecuador	14,480	12,590	12,420	13,604	13,624	13,000
Peru	111,000	112,000	109,000	106,000	104,000	<i>n.a.</i>
Venezuela	399,397	383,911	376,000	411,000	422,000	<i>n.a.</i>
Formosa	570	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Japan	6,000	10,796	18,461	26,153	7,000	<i>n.a.</i>
WORLD'S TOTAL (b)	14,000,000	15,000,000	16,000,000	18,000,000	19,000,000	19,000,000

(a) Incomplete, as about half the production is blended with crude petroleum at field storage.

(b) Totals refer only to those countries reported above.

PRODUCTION OF NATURAL GAS*

Million cubic feet

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom ..	106	115	200	200	<i>n.a.</i>	<i>n.a.</i>
Nigeria	<i>n.a.</i>	<i>n.a.</i>	1,130	(b) 1,500	<i>n.a.</i>	<i>n.a.</i>
Canada	655,738	946,703	1,117,425	1,407,098	1,445,354	1,547,802
Barbados	85	100	111	80	102	<i>n.a.</i>
Trinidad	29,375	30,018	29,365	38,452	41,456	48,691
Brunei	(a) 2,844	(a) 2,830	(a) 2,377	6,297	7,450	7,100
Pakistan	34,665	42,076	49,459	59,102	66,000	<i>n.a.</i>
Australia	12	56	96	106	143	143
New Zealand ..	5	4	5	5	5	4
OTHER COUNTRIES						
Austria	54,952	57,734	59,999	62,290	60,873	66,163
Czechoslovakia ..	44,600	37,720	35,200	33,300	<i>n.a.</i>	<i>n.a.</i>
France	213,966	247,384	265,593	280,354	279,768	279,000
Germany (Federal) ..	22,158	28,345	39,752	61,375	91,399	114,183
Hungary	11,429	12,010	21,590	27,702	39,130	54,810
Italy	242,355	252,521	256,628	r 271,376	275,469	311,652
Netherlands	15,900	17,600	20,100	29,500	61,600	<i>n.a.</i>
Poland	25,900	29,000	34,700	43,470	48,660	48,590
Roumania	385,400	455,800	503,700	546,800	610,300	657,400
U.S.S.R.	2,082,900	2,596,500	3,172,400	3,834,000	4,508,500	5,103,100
Yugoslavia	2,428	3,366	6,748	9,675	11,655	14,208
Algeria (Sahara) ..	21,600	30,700	40,360	45,700	73,240	72,250
Gabon	237	310	304	334	376	406
Morocco	300	350	420	420	390	<i>n.a.</i>
Tunisia	256	253	258	277	288	296
Mexico	360,564	371,358	401,560	485,050	493,300	529,300
United States	13,254,025	r13,801,244	r14,666,559	r15,462,143	16,039,753	17,206,628
Argentina	173,345	218,299	213,240	232,712	<i>n.a.</i>	<i>n.a.</i>
Brazil	18,604	18,056	17,774	18,777	24,125	27,848
Chile	44,530	62,220	67,840	62,900	<i>n.a.</i>	<i>n.a.</i>
Colombia	14,700	20,900	24,800	29,500	32,400	38,800
Peru	28,700	31,000	32,500	37,100	<i>n.a.</i>	<i>n.a.</i>
Venezuela	170,117	183,236	198,111	180,206	227,709	237,868
Burma	333	634	570	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Formosa	1,309	1,356	1,789	5,982	10,936	15,509
Indonesia	91,455	96,000	99,000	<i>n.a.</i>	<i>n.a.</i>	57,000
Iran	34,720	37,143	40,212	42,100	43,400	51,000
Israel	100	375	347	1,041	2,559	3,371
Japan	33,559	42,698	59,845	65,641	62,862	64,510
Kuwait	<i>n.a.</i>	<i>n.a.</i>	53,540	59,220	63,350	<i>n.a.</i>

*So far as possible the figures represent only that part of the gas produced which is actually utilized.

NOTE.—Production and shipments of helium in the United States were as follows (million cubic feet)

Production: 1961—728; 1962—713; 1963—2,232; 1964—4,027; 1965—4,365; 1966—4,525.

Shipments from Bureau of Mines plants: 1961—552; 1962—600; 1963—627; 1964—667;

1965—699; 1966—809.

(a) Sales. (b) Estimated.

PRODUCTION OF ASPHALT ROCK

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
France	94,561	101,800	104,523	102,549	114,761	126,632
Germany (Federal) ..	81,025	97,329	91,000	120,054	100,178	85,757
Italy	334,477	313,682	380,461	r 340,816	265,334	287,691
Angola	22,423	35,665	53,876	r 43,645	22,513	29,444
United States (a) ..	1,014,000	1,067,200	1,088,900	1,289,500	n.a.	n.a.
Indonesia	5,502	5,957	10,323	5,231	n.a.	7,153
Philippine Republic ..	6,546	6,824	5,104	—	—	—

(a) Shipments.

PRODUCTION OF NATURAL ASPHALT, ETC.

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Trinidad	175,326	162,613	169,308	189,246	165,881	157,703
OTHER COUNTRIES						
Spain	8,915	8,366	7,700	9,500	n.a.	n.a.
United States (a)—						
Gilsonite	377,100	403,300	n.a.	n.a.	n.a.	n.a.
Argentina—						
Grahamite ("Rafaelite")	1,059	(b) 713	(b) 828	(b) 1,052	348	(b) 150
Impsonite	3,613	2,200	4,100	2,400	3,152	829
Turkey	n.a.	n.a.	n.a.	n.a.	n.a.	10,672

NOTE.—This table is incomplete owing to the fact that official statistics of production of natural asphalt are published by only a few countries.

(a) Shipments.

(b) Exports.

PRODUCTION OF OIL-SHALE

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom ..	467,813	156,000	—	—	—	—
OTHER COUNTRIES						
Austria	542	606	320	44	571	315
France	4,046	2,883	2,977	3,359	4,119	3,000
Germany (Federal) (a) ..	306,230	96,428	56,929	107,385	136,973	110,563
Italy	173	246	n.a.	n.a.	n.a.	n.a.
Spain	842,908	719,077	798,608	701,139	620,283	220,000
Sweden (b)	3,400,944	3,447,067	3,263,446	3,536,385	1,880,165	2,242,370

NOTE.—Oil-shale is known to have been produced in U.S.S.R. and Manchuria.

(a) The amounts used as retort shale were as follows (long tons): 1961—103,648; 1962—67,898; 1963—nil; 1964—nil; 1965—nil; 1966—nil.

(b) Alum shale. The amounts used as retort shale were as follows (long tons): 1961—3,122,535; 1962—3,174,219; 1963—3,049,010; 1964—3,174,128; 1965—1,419,707; 1966—n.a.

PRODUCTION OF PETROLEUM REFINERY PRODUCTS IN CERTAIN COUNTRIES*

Long tons

Producing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom (a)—						
Aviation and motor spirit	8,353,000	8,493,000	7,634,000	8,656,000	9,431,000	9,297,000
Other spirit	157,000	150,000	156,000	163,000	152,000	172,000
Kerosine	2,683,000	2,610,000	3,083,000	3,169,000	3,375,000	3,791,000
Gas oil and diesel oil ..	8,618,000	9,966,000	10,788,000	11,993,000	13,423,000	14,663,000
Fuel oil	21,150,000	21,962,000	21,142,000	22,810,000	25,873,000	28,668,000
Fuel used in refineries ..	3,470,000	3,619,000	3,803,000	3,972,000	4,143,000	4,568,000
Lubricating oil	958,000	899,000	967,000	1,036,000	1,001,000	1,073,000
Bitumen	1,133,000	1,220,000	1,305,000	1,458,000	1,422,000	1,577,000
Paraffin wax	39,000	38,000	55,000	59,000	53,000	57,000
Ghana—						
Motor spirit	—	—	32,288	141,436	128,049	121,158
Kerosine	—	—	13,370	46,148	55,631	46,982
Gas oil	—	—	71,754	260,561	261,983	198,101
Fuel oil	—	—	48,785	255,616	250,335	252,388
Kenya—						
Motor spirit	—	—	20,000	215,000	260,000	n.a.
Kerosine	—	—	10,000	115,000	180,000	n.a.
Gas and diesel oil	—	—	21,000	230,000	291,000	n.a.
Fuel oil	—	—	42,000	629,000	676,000	n.a.
Asphalt	—	—	—	11,000	28,000	n.a.
Barbados—						
Motor spirit	2,057	2,484	2,468	3,076	7,022	11,271
Kerosine	2,127	2,102	2,123	3,010	3,693	9,184
Gas oil	375	454	875	—	592	2,923
Diesel oil	3,752	3,777	3,211	9,228	11,819	22,748
Fuel oil	12,181	11,159	11,100	14,547	17,446	19,000
Asphalt	790	1,321	1,090	2,803	4,529	4,960
Canada (b)—						
Aviation spirit	109,716	164,765	173,007	162,561	157,432	158,212
Motor spirit	11,654,678	12,389,273	13,321,500	13,929,830	14,574,753	15,588,628
Naphtha	201,561	186,280	225,779	245,726	275,491	282,788
Kerosine	2,007,569	2,242,058	2,397,362	2,334,603	2,362,426	2,303,135
Aviation turbine fuel ..	813,779	868,034	948,340	899,853	867,756	1,030,905
Gas oil, etc.	6,754,731	6,996,664	8,181,244	7,804,947	8,163,654	8,664,550
Diesel oil	3,674,460	4,131,139	4,527,930	4,943,335	5,337,146	5,982,641
Fuel oil	6,866,810	7,639,835	8,369,558	8,620,484	8,689,147	9,393,627
Lubricating oil and grease	210,244	227,256	244,051	243,422	240,662	229,877
Coke	333,365	268,139	222,143	169,205	196,141	185,330
Asphalt	1,444,049	1,475,778	1,586,547	1,691,706	1,796,629	1,947,483
Jamaica—						
Motor spirit	—	—	—	120,198	187,707	231,646
Kerosine and jet fuel ..	—	—	—	68,398	127,819	143,922
Diesel oil	—	—	—	170,082	248,978	265,849
Fuel oil	—	—	—	555,685	666,471	641,868
Asphalt	—	—	—	3,624	16,110	27,751
Trinidad—						
Aviation spirit	432,917	433,791	(d) 107,765	(d) 108,562	(d) 95,965	(d) 223,958
Motor spirit	1,481,959	1,516,930	(d) 2,153,195	(d) 2,087,839	(d) 2,024,964	(d) 2,088,016
White spirit	9,250	7,650	8,222	7,260	4,023	34,715
Kerosine	486,117	255,160	229,692	302,046	390,790	407,068
Aviation turbine fuel ..	(c)	1,093,405	974,132	1,201,118	1,808,290	1,719,014
Gas and diesel oil	2,256,397	2,397,588	2,747,295	2,692,921	2,664,524	2,764,360
Fuel oil	8,668,667	9,301,140	10,195,646	10,967,287	11,606,922	12,255,514

*This table refers to the more important products obtained and does not include in some cases items classified as "other products". It follows, therefore, that the sum of the products shown for a particular country does not necessarily represent the total refinery production.

(a) Including distillation plants.

(b) Including the amount used in the refineries.

(c) Included with "Other products".

(d) Owing to reclassification not strictly comparable with earlier years.

PRODUCTION OF PETROLEUM REFINERY PRODUCTS IN CERTAIN COUNTRIES (cont.)

Long tons

Producing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES (cont.)						
Trinidad (cont.)—						
Lubricating oil and greases	153	278	343	67,640	139,140	168,785
Bitumen	34,370	37,943	36,199	116,940	169,849	266,115
Other products	1,047,194	69,787	57,681			
Aden—						
Motor spirit etc.	474,000	439,000	404,000	390,000	394,000	488,000
Kerosine	510,000	661,000	649,000	764,000	681,000	732,000
Gas and diesel oil	1,055,000	1,203,000	1,275,000	1,281,000	1,254,000	1,246,000
Fuel oil	2,685,000	3,256,000	3,346,000	3,520,000	3,730,000	3,557,000
Other products	340,000	427,000	404,000	570,000	608,000	612,000
Bahrain Islands (c)—						
Motor spirit	2,148,000	1,931,000	1,655,000	1,662,000	1,272,000	1,155,000
Kerosine	617,000	569,000	531,000	437,000	399,000	346,000
Jet fuel	—	746,000	645,000	823,000	1,055,000	1,182,000
Gas oil and diesel oil	2,443,000	2,700,000	2,618,000	2,081,000	1,683,000	1,683,000
Fuel oil	4,630,000	5,121,000	4,906,000	4,069,000	4,050,000	4,335,000
Lubricating oil	28,000	n.a.	—	77,000	115,000	84,000
Bitumen	109,000	87,000	28,000	33,000	—	3,000
India—						
Motor and other spirits	1,051,906	1,142,926	7,529,230	8,317,020	8,842,500	n.a.
Kerosine	1,001,311	1,149,152				
Gas and diesel oils	1,642,241	1,762,800				
Fuel oil, etc.	1,782,482	1,924,358				
Lubricating oils	24,994	25,269				
Bitumen	431,434	362,373				
Other refined products	69,697	126,649				
Pakistan—						
Motor spirit	89,000	108,000	110,000	54,000	113,000	103,000
Kerosine	24,000	28,000	33,000	16,000	37,000	40,000
Diesel oil	93,000	115,000	123,000	61,000	140,000	133,000
Fuel oil	114,000	127,000	144,000	75,000	154,000	136,000
Lubricating oil	10,000	12,000	12,000	6,000	15,000	18,000
Bitumen	20,000	22,000	22,000	16,000	23,000	24,000
Sarawak—						
Motor spirit	5,100	12,500	—	6,800	7,900	218,500
Gas and diesel oils	1,169,400	1,074,000	394,500	419,300	1,400,600	368,000
Fuel oil	11,100	43,300	15,700	48,600	26,600	13,800
Feedstocks (a)	1,075,100	1,069,800	1,717,800	1,849,900	839,500	1,741,000
Singapore and Malaysia (West)—						
Motor spirit	—	(b) 775,000	1,071,000	1,153,000	n.a.	n.a.
Kerosine	—	(b) 397,000	271,000	416,000	n.a.	n.a.
Gas and diesel oils	—	b 1,257,000	1,376,000	1,745,000	n.a.	n.a.
Fuel oil	—	b 2,849,000	3,234,000	3,274,000	n.a.	n.a.
Australia—						
Aviation spirit	43,054	31,880	27,022	30,354	41,001	34,664
Motor spirit	3,863,924	3,977,627	4,281,400	4,621,548	4,966,106	5,292,000
Kerosine	136,941	154,920	174,443	273,799	325,860	358,487
Aviation turbine fuel	298,573	271,595	279,734	346,112	304,087	508,777
Gas and diesel oils	2,513,954	2,501,940	2,646,557	r2,462,321	2,608,253	2,858,383
Fuel oil	3,737,178	4,273,460	4,712,293	r4,904,359	5,069,289	5,560,503
do. (used in refineries)	930,286	1,078,605	1,291,972	1,495,332	1,666,603	1,802,304
Lubricating oil	22,279	15,363	77,581	194,848	252,773	261,655
Bitumen	288,485	298,990	320,872	355,531	384,765	395,596

(a) Mainly gasoline-type and fuel oil-type feedstocks, previously included with motor spirit and fuel oil.

(b) Estimated.

(c) British Protected State.

PRODUCTION OF PETROLEUM REFINERY PRODUCTS IN CERTAIN COUNTRIES (cont.)

Long tons

Producing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
<i>(cont.)</i>						
New Zealand—						
Motor spirit	124	247	295	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
White spirit	41	47	34	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Kerosine	127	158	136	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Diesel oil	123	176	165	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Fuel oil	184	275	299	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Irish Republic—						
Motor spirit	301,800	319,000	332,000	376,000	418,000	343,000
Kerosine	8,000	9,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Jet fuel	6,000					
Gas and diesel oils ..	445,200	463,000	487,000	531,000	610,000	458,000
Fuel oil	586,500	636,000	651,000	740,000	865,000	609,000
OTHER COUNTRIES						
Albania—						
Motor spirit	54,848	47,884	53,867	51,430	44,000	<i>n.a.</i>
Kerosine	3,296	1,979	2,109	2,302	<i>n.a.</i>	<i>n.a.</i>
Diesel oil	61,679	74,539	90,559	79,196	77,000	<i>n.a.</i>
Austria—						
Motor spirit	241,041	273,725	368,211	505,653	633,794	690,341
Kerosine	45,237	36,017	57,021	68,269	50,510	91,809
Gas oil	627,668	771,203	831,366	845,773	836,980	847,007
Fuel oil	914,453	1,194,747	1,370,472	1,565,966	1,755,219	1,819,897
Lubricating oil	87,432	117,497	108,988	189,040	182,404	203,485
Bitumen	85,923	111,699	124,660	156,360	184,060	211,623
Belgium—						
Aviation spirit and aviation turbine gasoline ..	177,900	216,650	224,970	244,030	271,960	201,227
Motor spirit	1,269,250	1,286,240	1,458,880	1,590,977	1,899,821	1,923,903
White spirit, etc. ..	34,010	52,200	59,950	59,110	75,360	113,031
Kerosine, including aviation kerosine	224,120	236,170	324,260	421,230	485,505	553,840
Gas oil	1,586,340	1,533,980	2,338,950	2,462,830	2,651,050	2,773,301
Diesel oil	766,550	970,160	1,363,670	1,634,530	2,032,394	1,930,682
Fuel oil	2,447,060	2,573,640	3,889,990	4,215,265	5,266,032	5,593,005
Lubricating oil	27,350	29,800	30,570	36,825	41,537	<i>n.a.</i>
Bitumen	336,800	381,150	472,960	504,150	404,240	455,888
Bulgaria—						
Motor spirit	—	—	67,000	302,000	365,000	<i>n.a.</i>
Kerosine	—	—	8,000	41,000	73,000	<i>n.a.</i>
Diesel oil	38,000	29,000	115,000	486,000	615,000	<i>n.a.</i>
Fuel oil	46,838	41,413	261,090	984,572	1,079,804	<i>n.a.</i>
Lubricating oil	22,000	23,000	33,000	44,000	46,000	<i>n.a.</i>
Czechoslovakia—						
Motor spirit	531,000	526,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Kerosine	85,000	116,000	89,000	108,000	135,000	132,000
Diesel oil	1,342,000	1,434,000	1,627,000	1,751,000	2,039,000	2,207,000
Denmark—						
Motor spirit	47,827	198,929	361,341	584,486	780,457	<i>n.a.</i>
Kerosine and gas oil ..			425,043	459,416	534,519	<i>n.a.</i>
Diesel oil			33,848	182,726	352,086	<i>n.a.</i>
Fuel oil			1,020,606	1,296,415	1,437,855	<i>n.a.</i>
Lubricating oil	2,247	2,418	2,453	2,739	2,159	<i>n.a.</i>
Grease	3,302	3,095	1,672	1,817	2,414	<i>n.a.</i>
Asphalt	28,822	24,740	23,069	24,553	25,427	45,000

PRODUCTION OF PETROLEUM REFINERY PRODUCTS IN CERTAIN COUNTRIES (cont.)
Long tons

Producing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES (cont.)						
France—						
Motor spirit	6,946,000	6,923,000	7,804,000	8,598,000	9,422,000	10,137,000
Kerosine and jet fuel ..	1,550,000	1,672,000	1,789,000	1,771,000	1,901,000	1,986,000
Gas and diesel oil ..	4,274,000	4,422,000	4,386,000	4,665,000	5,801,000	6,542,000
Fuel oils	16,387,000	18,218,000	21,949,000	26,251,000	30,800,000	34,210,000
Lubricating oil	683,000	683,000	791,000	841,000	797,000	875,000
Other products (a) ..	2,494,000	2,900,000	3,151,000	r 3,947,000	4,352,000	4,827,000
Germany (Federal)—						
Aviation spirit	832,718	839,962	1,084,771	1,358,162	1,452,807	1,580,000
Motor spirit	6,510,549	7,225,298	8,127,307	8,957,683	9,720,428	10,251,357
White spirit	129,233	134,634	130,369	143,571	144,173	145,417
Kerosine	409,012	619,415	632,715	669,029	675,517	805,930
Diesel oil	5,485,114	6,057,543	7,131,679	6,680,977	6,801,165	7,993,310
Fuel oil	17,138,325	19,018,595	22,701,996	31,585,781	37,341,837	42,875,179
Lubricating oil	509,474	555,014	544,939	590,062	597,920	598,518
Grease	16,951	17,867	16,962	21,740	23,579	21,908
Paraffin wax	69,208	76,303	95,842	87,207	91,148	100,115
Coke	341,987	382,796	422,777	436,773	414,943	444,244
Bitumen	1,365,205	1,775,578	2,267,779	2,776,008	3,183,632	3,448,079
Greece—						
Motor spirit	212,326	254,536	233,577	r 248,182	235,839	230,938
Kerosine	121,014	135,000	139,691	r 143,043	131,220	119,264
Aviation turbine fuel ..	66,500	44,488	23,313	30,963	31,501	69,469
Diesel oil	498,160	534,068	594,151	r 575,752	585,087	545,331
Fuel oil	727,606	741,712	692,245	r 698,405	604,016	658,893
Asphalt	36,956	47,846	63,150	r 62,332	74,748	51,875
Hungary—						
Motor spirit	333,057	342,905	328,062	364,204	449,000	551,000
Kerosine	63,786	67,221	70,943	37,778	20,694	18,485
Diesel oil	779,987	847,326	847,098	944,649	1,028,000	1,217,000
Fuel oil	1,121,609	1,262,263	1,381,142	1,616,987	1,698,000	1,695,000
Lubricating oils	98,973	100,112	98,934	109,482	114,211	118,418
Grease	18,242	18,476	18,399	18,516	18,837	18,660
Bitumen	339,756	378,064	409,607	448,470	478,000	506,000
Italy—						
Motor spirit	5,430,611	6,478,411	7,098,878	8,377,303	10,141,324	11,687,624
White spirit	36,977	36,730	46,306	42,852	39,276	38,654
Kerosine	1,356,829	1,350,744	1,504,246	1,597,528	2,302,303	2,879,580
Gas oil	6,276,158	7,487,436	8,811,322	10,171,158	12,109,050	14,023,230
Fuel oil and diesel oil ..	17,507,015	21,268,132	24,780,750	30,104,155	36,104,917	41,630,758
Lubricating oil	152,960	169,842	166,458	255,077	342,074	435,636
Bitumen	829,117	881,570	1,005,890	1,207,710	1,208,832	1,278,431
Other products	809,004	979,362	1,119,882	1,524,789	1,937,448	2,683,517
Netherlands—						
Motor spirit	2,898,000	3,446,000	3,602,000	2,725,000	2,703,000	2,214,000
White spirit and other solvents	130,000	n.a.	n.a.	n.a.	n.a.	n.a.
Kerosine	1,611,000	935,000	955,000	940,000	1,109,000	1,058,000
Aviation fuels	n.a.	950,000	843,000	961,000	765,000	1,269,000
Gas and diesel oil	4,668,000	5,379,000	5,082,000	5,930,000	6,463,000	7,713,000
Residual fuel oil	8,350,000	9,484,000	9,995,000	10,770,000	12,684,000	13,201,000
Lubricating oil	255,000	242,000	241,000	247,000	327,000	333,000
Bitumen	462,000	n.a.	n.a.	n.a.	n.a.	n.a.
Poland—						
Aviation and motor spirit	132,900	240,200	296,600	377,100	695,600	805,300
Kerosine	79,600	27,600	20,800	15,700	30,800	20,000
Gas and diesel oil	276,700	411,500	470,400	579,000	901,400	1,080,600
Fuel oil	67,700	191,000	223,400	463,000	1,249,200	1,090,800
Lubricating oil	150,300	155,200	180,500	168,400	180,600	180,500
Grease	23,100	25,000	25,000	23,800	26,800	30,700
Paraffin wax	9,200	9,900	7,800	10,200	11,700	13,200
Bitumen	120,100	143,400	182,900	200,600	237,200	299,500

(a) Other than butane and propane.

PRODUCTION OF PETROLEUM REFINERY PRODUCTS IN CERTAIN COUNTRIES (cont.)

Long tons

Producing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Portugal—						
Motor spirit	320,203	356,104	373,610	372,554	384,929	392,920
Kerosine	164,864	150,303	162,901	181,174	195,542	182,076
Jet fuel	8,901	11,685	31,282	28,687	38,674	73,447
Gas and diesel oil	255,056	250,519	284,965	316,749	325,766	364,829
Fuel oil	443,453	448,475	502,407	560,832	586,977	558,356
Roumania—						
Motor spirit	2,625,182	2,362,293	2,396,000	2,472,000	2,419,000	2,312,000
Kerosine and white spirit	1,214,526	1,214,977	1,067,000	974,000	950,000	905,000
Gas oil	2,611,434	2,864,085	3,061,000	3,333,000	3,543,000	3,687,000
Fuel oil	3,627,000	3,884,000	3,991,000	3,770,000	3,713,000	3,890,000
Bitumen	272,000	264,000	290,000	316,000	336,000	364,000
Spain—						
Motor spirit	(a) 703,000	732,000	706,000	1,065,000	1,118,000	n.a.
Kerosine and jet fuel ..	(a) 294,000	367,000	369,000	391,000	379,000	n.a.
Gas oil	} a1,213,000	1,373,000	1,380,000	1,842,000	1,990,000	n.a.
Diesel oil						
Fuel oil	a 2,087,000	2,548,000	2,679,000	3,089,000	3,404,000	n.a.
Lubricating oil	(a) 56,000	94,000	90,000	173,000	198,000	n.a.
Sweden—						
Motor spirit	365,921	358,749	386,741	492,732	494,145	n.a.
White spirit etc.	12,999	13,554	14,821	10,333	10,346	n.a.
Kerosine	5,789	8,017	4,000	3,000	n.a.	n.a.
Fuel oil, etc.	1,747,000	1,808,000	1,873,000	2,439,000	2,714,000	n.a.
Lubricating oil	53,448	51,768	53,008	57,010	67,909	n.a.
Asphalt	324,888	334,482	367,016	428,667	468,502	n.a.
Yugoslavia—						
Motor spirit	288,919	316,540	338,525	379,471	537,697	775,421
White spirit	8,297	10,427	12,107	15,830	15,372	15,982
Kerosine	57,936	79,706	87,458	96,648	80,406	92,185
Gas oil	398,152	523,847	608,119	690,317	875,752	1,124,155
Fuel oil	402,891	484,394	472,471	672,656	1,129,916	1,736,284
Lubricating oil	71,095	97,506	110,481	124,321	132,031	155,309
Bitumen	78,766	112,036	117,924	r 148,468	110,580	n.a.
Other products	6,151	6,317	7,415	10,679	15,767	n.a.
Angola—						
Motor spirit	32,912	49,691	64,235	r 72,663	54,864	59,166
Kerosine	2,513	3,806	9,435	r 22,815	6,843	6,930
Jet fuel	—	—	—	—	36,420	43,371
Gas and diesel oil	53,138	89,628	123,559	r 122,195	116,029	128,838
Fuel oil	110,398	184,731	251,901	r 284,843	286,580	336,488
Asphalt	—	2,105	6,304	r 7,514	10,313	10,697
Canary Islands—						
Motor spirit	394,615	506,807	570,501	552,320	702,401	584,586
Kerosine	103,418	120,767	135,744	182,680	208,777	267,425
Jet fuel	55,634	44,406	58,792	3,873	15,055	n.a.
Gas oil	427,514	643,736	864,053	339,586	860,002	896,163
Diesel oil	207,331	236,325	214,624	269,026	198,264	230,819
Fuel oil	1,430,090	1,961,388	2,453,337	2,722,368	3,439,980	3,546,668
Lubricating oil	25,568	28,426	29,635	36,642	53,430	58,545
Asphalt	143,481	154,764	150,338	227,020	219,701	189,533
Egypt—						
Motor spirit	380,379	543,791	702,025	744,814	845,243	835,472
Kerosine	447,715	535,745	796,996	968,134	839,278	908,823
Jet fuel	26,496	47,117	29,215	11,629	38,049	23,475
Gas and diesel oil	706,458	880,753	1,021,560	1,180,372	1,216,104	1,429,559
Fuel oil	2,609,091	2,778,036	3,335,614	4,170,900	4,606,845	4,129,710
Asphalt	121,804	150,390	140,740	148,394	131,398	131,843
Morocco—						
Motor spirit	67,900	75,400	251,200	165,000	240,000	240,000
Kerosine	15,500	26,000	76,600	62,000	66,000	66,000
Gas and fuel oils	109,600	200,700	559,600	639,000	692,000	880,000

(a) United States Bureau of Mines' estimate.

PRODUCTION OF PETROLEUM REFINERY PRODUCTS IN CERTAIN COUNTRIES (cont.)

Long tons

Producing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Mozambique—						
Motor spirit	82,933	90,337	r 101,582	100,022	102,789	115,692
Gas oil	98,372	110,448	r 127,544	131,706	145,903	189,466
Fuel oil	211,866	211,025	r 247,776	242,372	237,870	293,917
South Africa—						
Motor spirit	543,000	591,000	592,000	r 1,394,000	1,304,000	n.a.
Kerosine	130,000	142,000	} 184,000	} 158,000	135,000	n.a.
Jet fuel	30,000	31,000			74,000	88,000	n.a.
Gas and diesel oil	388,000	422,000	533,000	1,209,000	1,208,000	n.a.
Fuel oil	323,000	343,000	840,000	1,899,000	1,523,000	n.a.
Guatemala—						
Motor spirit	—	—	n.a.	n.a.	102,421	136,064
Kerosine	—	—	n.a.	n.a.	26,689	40,227
Aviation turbine fuel	—	—	n.a.	n.a.	2,124	22,645
Diesel oil	—	—	n.a.	n.a.	96,868	155,564
Fuel oil	—	—	n.a.	n.a.	149,739	194,550
Mexico—						
Aviation spirit	76,346	71,057	71,935	r 77,158	87,834	70,715
Motor spirit	3,249,296	3,141,662	3,191,105	3,201,917	3,256,798	2,838,710
Kerosine	1,396,092	1,424,619	1,464,242	r 1,544,313	1,533,429	1,575,214
Gas and diesel oil	2,335,114	2,821,797	3,131,505	r 3,910,210	4,116,314	4,535,570
Fuel oil	6,911,873	6,584,388	6,194,844	5,821,877	6,102,767	5,875,307
Lubricating oil	156,333	153,978	164,925	171,854	190,893	182,030
Grease	4,807	6,276	6,400	6,546	6,963	6,317
Paraffin wax	40,926	38,610	41,547	46,251	45,767	45,424
Asphalt	283,000	328,000	319,000	369,000	504,000	959,000
Netherlands Antilles (b)—						
Aviation spirit	1,455,000	1,601,000	1,563,000	1,558,000	1,504,000	1,138,000
Motor spirit	2,524,000	2,424,000	2,508,000	2,825,000	3,031,000	3,109,000
White spirit	57,000	61,000	56,000	74,000	72,000	50,000
Kerosine	1,060,000	830,000	859,000	724,000	642,000	444,000
Aviation turbine fuel	2,155,000	2,264,000	n.a.	2,882,000	3,008,000	3,641,000
Gas oil	3,665,000	4,378,000	4,705,000	3,488,000	2,836,000	3,701,000
Diesel oil	1,296,000	1,302,000	1,465,000	1,678,000	1,245,000	1,396,000
Fuel oil	20,792,000	21,802,000	21,357,000	21,858,000	21,860,000	19,453,000
Lubricating oil	655,000	814,000	599,000	809,000	939,000	654,000
Asphalt	894,000	835,000	808,000	898,000	865,000	934,000
Nicaragua—						
Motor spirit	—	—	(a) 41,000	79,000	77,000	85,000
Kerosine	—	—	(a) 15,000	21,000	19,000	22,000
Gas and diesel oil	—	—	(a) 28,000	55,000	64,000	69,000
Fuel oil	—	—	(a) 58,000	67,000	45,000	66,000
Panama—						
Motor spirit	—	(a) 135,000	257,000	235,000	307,000	n.a.
Kerosine	—	(a) 79,000	67,000	75,000	94,000	n.a.
Jet fuel	—	(a) 5,000	25,000	48,000	43,000	n.a.
Gas and diesel oil	—	(a) 187,000	597,000	614,000	689,000	n.a.
Fuel oil	—	(a) 451,000	929,000	976,000	1,047,000	n.a.
Salvador—						
Motor spirit	—	—	86,121	117,441	113,669	n.a.
Kerosine	—	—	33,550	46,556	54,577	n.a.
Diesel oil	—	—	202,662	119,117	232,826	n.a.
Lubricating oil	—	—	n.a.	169,662	n.a.	n.a.
United States—						
Aviation spirit	13,152,000	13,586,000	13,800,000	14,203,000	} 199,000,000	} 209,000,000
Motor spirit	162,503,000	167,668,000	172,246,000	178,973,000		
Kerosine (c)	18,161,000	20,030,000	21,120,000	21,575,000	} 36,352,000	} 40,418,000
Jet fuels (military)	12,118,000	13,016,000	12,646,000	13,745,000		
Distillate fuel oil	94,521,000	97,705,000	103,808,000	100,738,000	103,858,000	106,628,000
Residual fuel oil	46,022,000	43,120,000	40,237,000	38,912,000	39,166,000	38,494,000
Lubricating oil	8,296,000	8,605,000	8,832,000	8,914,000	8,810,000	9,157,000

(a) United States Bureau of Mines' estimate.

(b) Exports.

(c) Including commercial jet fuel

PRODUCTION OF PETROLEUM REFINERY PRODUCTS IN CERTAIN COUNTRIES (cont.)

Long tons

Producing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
United States <i>(cont.)</i> —						
Paraffin wax	723,000	669,000	641,000	669,000	682,000	722,000
Coke	13,452,000	14,058,000	14,409,000	15,058,000	15,364,000	15,724,000
Asphalt	16,529,000	17,778,000	18,173,000	18,649,000	20,066,000	21,036,000
Road oil	926,000	1,126,000	1,081,000	1,014,000	1,044,000	1,153,000
Argentina—						
Aviation spirit	47,000	44,800	35,100	42,700	21,200	50,800
Motor spirit	2,164,400	2,672,600	2,532,200	2,730,900	3,092,900	3,300,000
Kerosine	1,017,200	1,183,600	972,200	1,140,000	982,690	907,900
Gas oil	739,500	1,053,200	1,424,400	1,382,900	1,940,600	2,402,600
Diesel oil	929,800	971,700	1,184,000	1,048,800	1,082,900	1,187,900
Fuel oil	6,565,400	6,774,600	6,288,500	6,829,700	7,691,700	7,876,700
Lubricating oil	137,500	129,300	108,100	126,400	141,500	128,800
Bolivia—						
Motor spirit	105,494	117,799	115,719	129,095	135,476	155,070
Kerosine	50,774	54,775	54,736	59,409	65,145	72,663
Diesel oil	48,655	59,997	57,005	61,213	72,083	74,222
Fuel oil	73,331	92,193	106,352	115,127	119,324	125,775
Brazil—						
Motor spirit	2,718,000	3,532,000	3,764,000	4,068,000	4,201,000	4,756,000
Kerosine	502,000	555,000	516,000	r 582,000	524,000	608,000
Diesel oil	2,061,000	2,683,000	3,052,000	r 3,560,000	3,784,000	3,891,000
Fuel oil	4,214,000	5,653,000	5,993,000	r 5,780,000	5,144,000	5,635,000
Lubricating oil	1,175	1,788	6,934	400	5,000	—
Paraffin wax	—	16,189	10,410	572	6,135	3,231
Asphalt	202,132	227,216	253,941	r 203,601	287,225	394,533
Chile—						
Aviation spirit	35,390	48,950	40,930	45,660	769,000	860,000
Motor spirit	537,000	676,800	651,850	695,820		
Kerosine	150,530	203,910	233,660	242,920	165,000	258,270
Diesel oil	275,230	340,420	361,450	418,410	940,000	1,320,000
Fuel oil	375,670	583,030	562,170	591,390		
Colombia—						
Aviation spirit	59,668	66,803	62,861	60,016	87,293	131,000
Motor spirit	1,166,584	1,181,487	1,190,552	r 1,257,750	1,375,405	1,525,000
Other spirit	56,200	65,100	58,400	63,600	n.a.	n.a.
Kerosine	203,163	236,223	230,285	228,143	246,918	268,000
Jet fuel	15,448	22,152	19,539	24,862	31,000	50,000
Gas oil	1,229	—	7,431	n.a.	n.a.	n.a.
Diesel oil	513,758	556,314	549,533	563,666	605,562	647,000
Fuel oil	1,296,779	1,528,069	1,340,586	1,274,819	1,462,791	1,669,000
Lubricating oil and grease	17,048	19,443	20,107	52,722	58,529	60,600
Coke	96,345	91,835	93,549	96,487	n.a.	n.a.
Asphalt	49,895	67,528	53,757	r 67,591	66,194	68,900
Ecuador—						
Motor spirit	139,870	110,160	134,430	233,739	247,521	248,000
Kerosine	40,444	40,822	45,743	53,841	57,239	60,600
Aviation turbine fuel	n.a.	n.a.	n.a.	6,937	23,041	n.a.
Diesel oil	102,240	95,374	111,100	117,493	131,672	143,000
Residual fuel oil	224,950	177,550	169,870	189,018	215,846	219,000
Peru—						
Aviation spirit	6,000	7,000	5,000	5,000	6,000	n.a.
Motor spirit	572,900	616,000	625,000	659,000	686,000	n.a.
Kerosine	389,500	381,800	380,000	398,000	416,000	n.a.
Aviation turbine fuel	41,900	62,700	62,000	92,000	100,000	n.a.
Diesel oil	748,900	818,800	792,000	808,000	855,000	n.a.
Fuel oil	351,500	404,000	661,000	735,000	792,000	n.a.
Lubricating oil and grease	12,000	11,000	8,000	11,000	12,000	n.a.
Uruguay—						
Motor spirit	234,647	284,842	251,538	257,373	255,675	263,815
Kerosine	172,269	167,212	165,549	175,300	161,996	165,992

PRODUCTION OF PETROLEUM REFINERY PRODUCTS IN CERTAIN COUNTRIES (cont.)

Long tons

Producing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Uruguay <i>(cont.)</i> —						
Aviation turbine fuel ..	9,581	17,181	14,322	15,585	14,006	16,459
Gas oil ..	175,670	188,567	190,840	239,142	230,589	234,297
Diesel oil ..	37,891	47,988	66,041	62,390	63,527	70,219
Fuel oil ..	635,635	660,166	601,394	625,405	720,875	701,573
Lubricating oil ..	875	313	473	766	355	470
Asphalt ..	12,800	18,900	14,900	12,800	13,200	20,100
Venezuela—						
Motor spirit ..	4,882,540	5,570,306	5,824,489	5,469,000	5,998,000	5,808,000
Kerosine ..	1,379,521	1,294,876	1,125,419	1,490,000	1,218,000	772,000
Gas and diesel oils ..	8,632,145	10,187,728	10,792,154	10,534,000	9,982,000	9,766,000
Fuel oil ..	27,433,708	30,934,189	31,267,995	34,092,000	37,444,000	37,777,000
Lubricating oil ..	515,916	567,210	616,000	649,600	521,000	524,000
Asphalt ..	1,041,000	1,070,000	839,000	865,000	877,000	787,000
Burma—						
Motor spirit ..	143,910	148,194	142,090	139,450	151,000	155,000
Kerosine ..	88,629	89,229	108,720	117,330	139,000	150,000
Jet fuel ..	<i>n.a.</i>	21,842	25,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Diesel oil ..	125,680	167,940	171,130	181,380	139,000	<i>n.a.</i>
Fuel oil ..	71,437	48,521	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Paraffin wax ..	13,349	17,143	18,631	13,824	<i>n.a.</i>	<i>n.a.</i>
Coke ..	<i>n.a.</i>	12,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Formosa—						
Aviation spirit ..	226,000	229,000	237,000	249,000	257,000	314,000
Motor spirit ..						
Kerosine ..	28,400	31,000	31,500	31,300	24,100	27,100
Jet fuel ..	144,500	(b) 168,000	(b) 145,000	177,000	213,000	<i>n.a.</i>
Diesel oil ..	175,200	219,900	185,800	234,200	295,900	321,600
Fuel oil ..	424,900	521,300	561,300	573,700	852,900	1,080,400
Lubricating oil ..	—	—	—	—	4,100	17,100
Asphalt ..	60,722	67,232	51,202	39,852	52,716	78,384
Indonesia—						
Aviation spirit ..	117,460	83,000	67,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Motor spirit ..	1,982,879	1,805,000	1,707,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Kerosine ..	1,704,781	1,742,000	1,828,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Fuel, gas, diesel and lubricating oils ..	7,002,858	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Paraffin wax ..	89,985	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Asphalt ..	43,895	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Other products ..	758,775	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Iran (a)—						
Aviation spirit ..	473,000	566,000	554,000	563,000	710,000	725,000
Motor spirit ..	1,717,000	2,100,000	2,038,000	1,904,000	1,882,000	1,996,000
Kerosine ..	1,913,000	2,127,000	1,925,000	2,217,000	1,823,000	1,805,000
Aviation turbine fuel ..	522,000	712,000	896,000	925,000	1,197,000	1,292,000
Gas and diesel oils ..	2,538,000	3,005,000	2,898,000	2,741,000	2,866,000	3,034,000
Fuel oil ..	6,640,000	7,541,000	7,895,000	8,189,000	8,377,000	8,462,000
Lubricating oil ..	19,000	19,000	25,000	35,000	44,000	52,000
Bitumen ..	284,000	223,000	169,000	193,000	174,000	222,000
Iraq—						
Motor spirit ..	(b) 309,000	264,756	257,996	278,298	292,000	<i>n.a.</i>
Kerosine ..	(b) 363,000	371,524	382,116	459,133	451,000	<i>n.a.</i>
Aviation turbine fuel ..	<i>n.a.</i>	<i>n.a.</i>	27,015	43,614	44,000	<i>n.a.</i>
Gas oil ..	b 361,000	214,303	228,960	310,342	576,000	<i>n.a.</i>
Diesel oil ..		187,117	181,120	218,842		
Fuel oil ..	(b) 949,000	1,032,469	1,004,215	1,142,536	1,145,000	<i>n.a.</i>
Israel—						
Motor spirit ..	192,805	272,105	310,000	347,000	(b) 379,000	<i>n.a.</i>
Kerosine ..	203,069	232,769	239,000	308,000	<i>n.a.</i>	<i>n.a.</i>
Gas and diesel oils ..	426,747	548,444	717,000	791,000	(b) 1,310,000	<i>n.a.</i>
Fuel oil ..	660,887	890,849	1,091,000	1,241,000	(b) 1,376,000	<i>n.a.</i>

(a) Abadan Refinery only.

(b) Estimated.

PRODUCTION OF PETROLEUM REFINERY PRODUCTS IN CERTAIN COUNTRIES (cont.)

Long tons

Producing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Japan—						
Aviation spirit	50,109	57,675	62,022	68,141	} 7,870,000	9,080,000
Motor spirit	5,182,037	5,715,077	6,628,860	7,096,906		
Kerosine	1,857,440	2,364,045	3,151,229	3,571,549	4,440,000	5,062,000
Jet fuel	383,491	432,075	546,788	806,754	1,030,000	1,198,000
Gas oil	2,451,956	2,995,404	3,815,205	4,563,959	5,155,000	6,068,000
Diesel oil	1,394,390	1,473,107	1,629,237	2,116,674	2,516,000	3,368,000
Fuel oil	17,383,070	20,356,971	27,336,602	32,887,532	38,260,000	45,630,000
Lubricating oil	647,932	527,216	525,372	625,991	<i>n.a.</i>	<i>n.a.</i>
Paraffin wax	44,959	48,327	51,790	63,556	68,000	<i>n.a.</i>
Asphalt	596,016	613,095	654,916	920,744	<i>n.a.</i>	<i>n.a.</i>
Jordan—						
Motor spirit	34,000	41,075	45,450	52,259	60,223	76,153
Kerosine	38,000	51,386	53,833	64,915	66,760	69,505
Gas oil	40,000	111,207	114,836	106,488	130,130	133,772
Fuel oil	51,000	40,542	47,712	75,147	80,529	89,527
Asphalt	12,000	18,677	27,049	26,474	28,492	40,498
Korea (South)—						
Motor spirit	—	—	—	66,810	161,768	231,583
Kerosine	—	—	—	40,133	65,105	93,437
Jet fuel	—	—	—	—	53,592	94,117
Diesel oil	—	—	—	157,170	420,173	527,598
Fuel oil	—	—	—	396,563	675,491	762,947
Kuwait—						
Motor spirit	95,000	162,000	180,000	186,000	193,000	218,000
Kerosine	51,000	56,000	64,000	67,000	69,000	85,000
Gas and diesel oils	1,725,000	2,084,000	2,402,000	2,623,000	2,561,000	2,739,000
Fuel oil	5,102,000	5,548,000	5,754,000	6,181,000	6,252,000	6,312,000
Bitumen	35,000	22,000	28,000	19,000	13,000	26,000
Lebanon—						
Motor spirit	99,514	121,433	159,000	221,054	280,000	248,000
Kerosine	63,451	100,813	121,900	119,920	126,500	153,000
Gas oil	175,438	161,053	173,500	216,146	230,000	226,000
Fuel oil	331,674	408,543	518,150	617,714	755,000	725,810
Philippine Republic—						
Motor spirit	718,800	841,700	965,500	1,050,000	1,087,000	1,193,000
Kerosine	237,000	} 294,800	273,000	292,900	279,100	426,000
Jet fuel	10,000		73,600	94,600	133,000	<i>n.a.</i>
Gas and diesel oil	554,000	671,600	854,500	968,000	976,000	1,060,000
Fuel oil	710,600	940,500	1,118,000	1,401,000	1,617,700	1,991,000
Saudi Arabia—						
Aviation spirit	47,277	34,862	37,657	40,853	27,099	36,279
Motor spirit	1,038,129	955,557	1,219,834	1,519,692	1,956,815	2,025,421
Kerosine	742,985	480,420	487,585	415,685	278,760	244,537
Jet fuel	427,802	563,282	595,458	748,920	1,062,143	1,307,877
Diesel oil	1,786,261	1,683,032	2,071,339	1,898,714	1,741,322	2,191,489
Fuel oil	7,277,150	7,611,459	7,809,318	8,270,362	9,305,802	8,798,702
Asphalt, etc.	57,839	57,112	46,330	59,811	44,663	104,010
Syria—						
Motor spirit	(a) 118,000	(a) 130,000	123,000	(a) 140,000	154,000	<i>n.a.</i>
Kerosine	(a) 108,000	(a) 93,000	104,000	(a) 118,000	135,000	<i>n.a.</i>
Gas and diesel oil	(a) 199,000	(a) 199,000	255,000	(a) 290,000	276,000	<i>n.a.</i>
Fuel oil	(a) 314,000	(a) 284,000	324,000	(a) 369,000	383,000	<i>n.a.</i>
Turkey—						
Motor spirit	76,060	514,611	532,578	626,000	687,000	750,000
Kerosine	10,700	277,484	389,357	469,000	417,000	415,000
Jet fuel	—	—	—	14,000	65,000	80,000
Diesel oil	37,660	605,993	r 885,000	r 1,095,000	1,110,000	1,282,000
Fuel oil	184,300	1,097,364	1,406,693	1,640,000	1,670,000	1,900,000
Asphalt	56,265	88,683	117,509	99,000	131,000	137,000

(a) United States Bureau of Mines' estimate.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS*

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Crude petroleum (f) ..	110,166	994,829	1,420,842	338,542	267,809	125,485
Aviation spirit (bunkers) (a) ..	79,915	40,029	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Aviation spirit ..	213,568	259,208	180,071	116,719	134,957	143,471
Aviation turbine fuel (d) ..	296,281	338,910	347,064	380,122	455,554	373,776
Motor spirit ..	968,353	1,096,401	877,657	774,103	979,663	1,000,728
Other spirit ..	44,150	50,799	167,783	157,662	113,841	150,725
Kerosine (e) ..	797,842	815,140	697,914	560,870	654,757	724,566
Gas oil ..	2,050,963	2,684,097	2,956,580	2,964,586	3,333,104	3,482,086
Diesel oil ..	295,129	393,370	396,167	285,984	480,128	488,367
Fuel oil ..	2,361,820	3,251,910	3,169,343	3,155,000	3,869,586	4,753,153
do. (bunkers) (a) ..	4,281,575	3,227,644	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Lubricating oil ..	484,233	574,952	513,133	519,037	478,961	538,668
Greases (c) ..	32,398	32,834	33,846	34,966	33,391	30,873
Other heavy oils ..	10,674	11,383	81,688	190	7,065	3,053
Petroleum jelly ..	<i>n.a.</i>	<i>n.a.</i>	435	530	635	1,072
Petroleum waxes ..	6,094	6,643	8,348	6,077	4,561	3,428
Malta (bunkers) (b)—						
Aviation spirit ..	11,872	11,936	12,030	5,003	8,719	9,066
Aviation turbine fuel ..	33,202	31,282	38,265	1,793	40,736	66,630
Gas oil ..	2,449	6,000	6,580	12,048	8,209	4,968
Diesel oil ..	—	—	—	—	5,215	8,772
Fuel oil ..	224	3,669	2,081	10,507	8,876	21,506
Ghana—						
Gas oil (bunkers) ..	—	—	151	13,198	7,425	<i>n.a.</i>
do. do. (b) ..	6,731	9,323	1,311	2,780	16	<i>n.a.</i>
Diesel oil (bunkers) (b) ..	2,056	2,805	282	23,673	435	<i>n.a.</i>
Fuel oil ..	—	—	17,299	196,634	183,536	206,257
do. (bunkers) (b) ..	5,793	6,654	793	3,201	550	<i>n.a.</i>
Lubricating oil (bunkers) (b) ..	47	113	16	282	209	<i>n.a.</i>
Kenya—						
Aviation spirit (bunkers) (b) ..	19,264	3,658	4,605	2,964	2,287	2,091
Motor spirit ..	—	—	<i>n.a.</i>	4,540	5,322	27,503
do. (bunkers) ..	(b) 35	(b) 816	(b) 6	(b) 2	(a) 1	13
Aviation turbine fuel (bunkers) ..	—	(b) 41,710	(b) 41,008	(b) 41,649	81,271	78,959
Kerosine ..	—	—	<i>n.a.</i>	2,186	3,512	7,713
Gas, diesel and fuel oils do. bunkers ..	(b) 143,820	(b) 135,371	(b) 124,472	(a) 134,614	(a) 135,768	171,183
Lubricating oil (bunkers) (b) ..	577	522	490	375	468	616
Asphalt and bitumen ..	—	—	<i>n.a.</i>	2,583	10,048	16,107
Mauritius (bunkers) (b)—						
Aviation spirit ..	2,165	1,977	1,615	<i>n.a.</i>	2,243	2,111
Aviation turbine fuel ..	492	718	1,427	<i>n.a.</i>	2,627	3,150
Fuel oils ..	12,556	14,141	8,224	<i>n.a.</i>	20,331	25,707

*Excluding the United Kingdom, the following rates have been used for converting Imperial gallons to long tons: Aviation spirit 315, Motor spirit 305, White spirit 280, Aviation turbine fuel 275, Kerosine 275, Gas oil 260, Diesel oil 256, Fuel oil 240, Lubricating oil 250, Asphalt 220, Road oil 220, Crude petroleum 245 (except for countries mentioned in footnote (b) on page 240).

(a) Including foreign produce.

(e) Including kerosine jet type fuel.

(b) Foreign produce. See imports.

(f) Including partly refined.

(c) Including cable impregnating compounds.

(d) Wide cut gasoline.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES (cont.)						
Nigeria—						
Crude petroleum ..	2,224,140	3,367,504	3,694,981	5,782,608	13,019,779	18,945,374
Motor spirit ..	—	—	—	—	—	51,520
do. (bunkers) ..	—	—	—	—	—	743
Aviation turbine fuel ..	—	—	—	—	—	3,066
do. (bunkers) ..	—	—	—	—	—	365
do. do. (a) ..	—	—	18,095	24,173	493	1,743
Gas oil ..	—	—	—	—	—	22,709
do. (bunkers) ..	—	—	—	—	—	2,275
do. do. (a) ..	2,589	3,689	(g)	(g)	(g)	(g)
Diesel oil ..	—	—	—	—	—	4,601
do. (bunkers) ..	—	—	—	—	—	374
do. do. (a) ..	1,026	3,220	294	132	1,550	77
Fuel oil ..	—	—	—	—	—	11
do. (bunkers) ..	—	—	—	—	—	625
do. do. (a) ..	2,504	2,784	(h) 9,503	(h) 13,865	(h) 16,065	(h) 6,720
Sierra Leone (bunkers) (a)—						
Aviation spirit ..	166	472	411	n.a.	n.a.	n.a.
Aviation turbine fuel ..	176	534	2,036	n.a.	n.a.	n.a.
Fuel and diesel oils ..	304,681	274,974	228,619	n.a.	n.a.	n.a.
Tanzania (bunkers)—						
Aviation spirit (a) ..	272	3,310	2,007	2,322	1,590	—
Aviation turbine fuel (a) ..	—	2,954	6,615	5,911	—	9,529
Gas, diesel and fuel oils (a) ..	(a) 1,245	(a) 835	(a) 3,873	(a) 512	(a) 2,224	(f) 4,940
Uganda (bunkers) (a)—						
Aviation spirit ..	3,585	3,534	2,676	2,466	1,123	1,237
Aviation turbine fuel ..	—	8,431	8,211	11,300	—	—
Canada—						
Crude petroleum ..	8,696,335	12,210,695	12,116,775	13,501,180	14,401,380	17,670,192
Motor spirit ..	65,426	110,676	55,178	119,423	29,217	49,553
Fuel oil ..	152,390	285,768	310,417	337,289	297,737	345,683
do. (bunkers) ..	1,403,484	1,489,833	n.a.	n.a.	n.a.	n.a.
Diesel oil (bunkers) ..	426,577	454,043	n.a.	n.a.	n.a.	n.a.
Lubricating oil (c) ..	280	4,635	9,138	4,546	4,801	5,877
Petroleum coke ..	(d) 46,793	(d) 28,445	(d) 16,086	(d) 18,951	(d) 15,269	(d) 8,632
Natural gas (million cu.ft.) ..	168,180	319,566	340,953	404,143	403,908	426,223
Barbados (bunkers)—						
Aviation spirit (a) ..	1,843	1,119	1,376	1,443	2,005	1,328
Aviation turbine fuel (a) ..	4,062	5,333	8,077	7,635	9,566	25,836
Gas, diesel and fuel oils ..	563	366	427	118	559	7,578
Do. do. (a) ..	521	64,057	258,000	98,881	131,201	272,196
Bermuda (bunkers) (a)(b)—						
Aviation spirit ..	79,655	66,028	44,106	28,443	24,868	71,913
Motor spirit ..	3,629	3,872	3,676	2,426	2,350	2,924
Aviation turbine fuel ..	63,567	67,350	55,369	68,021	60,340	74,829
Kerosine ..	462	474	419	377	330	220
Fuel oil ..	19,818	34,237	39,278	33,541	25,980	31,718
Diesel oil ..	92	36	48	36	29	16
Lubricating oil ..	—	—	—	—	—	—
Jamaica (bunkers) (e)—						
Aviation spirit ..	9,444	12,987	7,703	6,927	4,861	n.a.
Gas oil ..	7,871	4,736	8,269	7,473	7,520	n.a.
Diesel oil ..	53,006	32,352	22,437	21,362	22,034	n.a.
Fuel oil ..	155,072	88,780	2,309	107,095	146,260	n.a.

(a) Foreign produce. See imports.

(d) Including pitch coke.

(b) Including bunkers for military forces.

(c) Including grease.

(e) Foreign produce. Domestic exports of refinery products from Jamaica included 33,564 tons of motor spirit in 1964 and 75,678 tons of motor spirit in 1965.

(f) Including foreign produce.

(g) Included with fuel oil.

(h) Gas and fuel oils.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
<i>(cont.)</i>						
Trinidad and Tobago—						
Crude petroleum ..	728,029	870,541	932,488	1,337,201	1,329,220	930,596
Aviation spirit (d) ..	1,360,395	1,426,354	r1,301,629	r1,628,647	2,165,429	2,152,296
do. (bunkers) ..	8,229	4,838	9,288	37,296	27,541	32,620
Motor spirit ..	1,233,518	1,063,230	r1,204,020	r1,045,728	813,285	1,002,936
do. (bunkers) ..	8,505	39	2,987	28	11	437
Kerosine ..	320,118	217,706	r 92,986	r 155,196	112,076	18,962
do. (bunkers) ..	20,569	32,180	28,910	149	18	136
Gas oil ..	1,379,996	1,058,377	r1,140,601	r1,487,506	942,268	584,101
do. (bunkers) ..	49,260	117,260	57,456	37,615	37,644	45,971
Diesel oil ..	356,034	874,695	r1,180,688	r 936,228	1,394,654	1,803,173
do. (bunkers) ..	364,342	356,270	186,619	187,445	152,723	131,697
Fuel oil ..	6,613,960	7,346,859	r8,307,560	r9,269,922	9,888,972	9,536,221
do. (bunkers) ..	1,803,873	1,762,723	1,376,901	1,627,337	1,329,922	1,152,768
Lubricating oil ..	—	24	64	51,128	95,742	154,277
Road oil ..	12,809	9,640	6,430	8,428	12,518	9,224
Asphalt—						
Dried ..	57,980	65,344	67,728	79,080	58,544	58,695
Asphalt cement ..	7,749	4,261	3,180	4,100	2,812	1,766
Bituminous asphalt ..	30,182	49,575	36,109	26,170	18,015	15,367
Falkland Islands—						
<i>(bunkers) (a)—</i>						
Fuel oil ..	17,758	16,996	—	5,605	2,581	<i>n.a.</i>
Guyana (a)—						
Aviation spirit (bunkers)	1,680	13,515	<i>n.a.</i>	926	149	4
Abu Dhabi (c)—						
Crude petroleum ..	—	—	70,415	5,919,230	8,928,097	12,135,404
Aden (f)—						
Aviation and motor						
spirits ..	789,634	812,251	793,513	946,288	1,046,853	1,053,213
Kerosine ..	497,969	559,129	601,913	684,838	620,220	656,209
Gas, diesel, fuel oils ..	1,779,578	1,931,273	2,451,748	2,475,113	2,522,760	2,245,863
Fuel oil (bunkers) ..	3,509,121	3,405,878	3,786,449	3,875,597	3,215,970	3,615,681
Bahrain Islands (c)—						
Aviation spirit ..	1,549,000	1,836,000	1,900,000	1,793,000	1,245,000	1,152,000
Motor spirit ..						
Aviation turbine fuel ..	451,000	526,000	474,000	596,000	848,000	1,049,000
Kerosine ..	687,000	716,000	640,000	557,000	502,000	431,000
Diesel oil ..	2,383,000	2,562,000	2,469,000	2,014,000	1,587,000	1,703,000
do. (bunkers) ..	85,000	76,000	(e)	(e)	(e)	(e)
Fuel oil ..	3,877,000	4,390,000	4,152,000	3,126,000	3,125,000	3,299,000
do. (bunkers) ..	733,000	751,000	876,000	1,014,000	961,000	1,027,000
Asphalt ..	101,000	84,000	29,000	30,000	8,000	2,000
Brunei—						
Crude petroleum (b) ..	4,379,000	3,757,077	3,424,099	3,463,277	3,868,849	4,544,422
Natural gas (<i>million cubic feet</i>) ..	2,656	2,653	2,204	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ceylon (bunkers) (a)—						
Aviation spirit ..	7,638	7,536	5,944	5,886	1,455	—
Gas oil ..	3,878	3,484	6,614	3,679	2,860	4,181
Diesel oil ..	52,854	49,305	24,035	29,045	24,408	27,266
Fuel oil ..	330,513	247,529	161,690	210,985	230,679	203,505
Cyprus (bunkers) (a)—						
Aviation spirit ..	1,196	1,143	1,506	1,737	2,189	1,527

(a) Foreign produce. See imports.

(b) Exported to Sarawak for refining. Some, however, is re-exported from Sarawak and shown as exports from that country.

(c) British Protected State.

(d) Including J.P.4 type aviation turbine fuel.

(e) Included, if any, with fuel oil (bunkers).

(f) Domestic and foreign produce.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES (cont.)						
India (g)—						
Motor spirit	162,452	239,647	366,115	369,862	n.a.	n.a.
Other spirit						
Diesel oil						
Fuel oil	—	—	—	—	n.a.	n.a.
Paraffin wax	12,043	11,939	9,370	11,535	n.a.	n.a.
Malaysia (West)—						
Crude petroleum	n.a.	n.a.	n.a.	n.a.	223,016	259,866
Aviation spirit	n.a.	n.a.	n.a.	n.a.	609	117
do. do. (bunkers)	n.a.	n.a.	n.a.	n.a.	10,198	16,158
Motor spirit	n.a.	n.a.	n.a.	n.a.	96,621	104,741
Aviation turbine fuel	n.a.	n.a.	n.a.	n.a.	17,701	22,675
Kerosine	n.a.	n.a.	n.a.	n.a.	21,645	32,271
Gas oil	n.a.	n.a.	n.a.	n.a.	54,722	36,031
Diesel oil	n.a.	n.a.	n.a.	n.a.	75,524	71,789
Fuel oil	n.a.	n.a.	n.a.	n.a.	242,780	309,915
Fuel and diesel oil (bunkers)	n.a.	n.a.	n.a.	n.a.	35,619	44,578
Petroleum coke	n.a.	n.a.	n.a.	n.a.	40,031	53,336
Asphalt and bitumen	n.a.	n.a.	n.a.	n.a.	4,256	4,400
Qatar (e)—						
Crude petroleum	8,143,706	8,614,642	8,971,403	8,754,450	8,903,998	8,936,394
Sabah—						
(bunkers) (b)—						
Aviation spirit	591	921	6,238	11,027	4,526	458
Fuel oil	9,479	6,097	10,180	8,259	9,964	400
Sarawak—						
Crude petroleum (c)	1,879,638	1,871,940	1,516,472	1,736,481	1,898,056	2,374,797
Motor spirit (d)	262,459	287,222	258,618	376,058	256,287	373,402
Kerosine	—	—	13,852	137,516	135,875	141,097
Aviation turbine fuel	—	—	—	6,408	172,065	138,291
Gas oil	33,754	50,922	36,731	121,482	142,350	138,899
Diesel oil	951,764	1,090,062	1,095,426	358,459	91,491	98,748
Fuel oil	459,825	531,799	393,537	708,362	1,100,749	1,314,507
do. (bunkers) (f)	106,589	81,634	46,377	37,828	23,312	23,959
Singapore—						
Crude petroleum	n.a.	1,295,234	1,240,060	—	—	9,782
Aviation spirit	121,648	176,839	161,879	170,009	207,868	269,114
do. (bunkers)	38,552	46,384	47,752	54,190	73,009	66,712
Motor spirit	791,816	771,240	828,853	750,451	680,611	889,708
White spirit	90,851	78,137	72,666	44,016	22,046	29,050
Aviation turbine fuel	249,038	303,948	283,007	235,259	553,257	1,242,362
Kerosine	348,960	335,233	372,621	232,617	225,421	267,891
Gas oil	593,173	736,427	846,758	756,997	663,525	1,065,994
Diesel oil	322,755	338,608	376,104	300,227	401,057	461,577
Fuel oil	654,920	970,833	971,164	1,747,173	2,619,309	2,788,929
Fuel and diesel oil (bunkers)	2,362,365	2,614,181	2,606,992	2,470,657	2,854,708	3,022,486
Lubricating oil	10,052	11,532	31,224	58,355	74,011	95,104
Asphalt and bitumen	n.a.	29,673	70,682	57,139	41,137	50,271
Australia (a)—						
Aviation spirit	10,319	8,031	1,983	1,344	736	5,626
do. do. (bunkers)	8,079	7,799	1,439	5,828	3,315	13,619
do. do. do. (b)	8,892	2,997	1,319	5,873	3,585	3,316
Motor spirit	81,971	138,370	126,490	141,515	52,813	46,336
Kerosine	73,667	13,965	20,810	3,650	8,773	11,413

(a) Years ended June 30 of that stated.

(e) British Protected State.

(b) Foreign produce. See imports.

(f) Including diesel oil bunkers.

(c) Including crude petroleum imported from Brunei as well as enriched waxy crude.

(d) Excluding motor spirit blended with crude petroleum and exported as enriched waxy crude.

(g) Years ended March 31 following that stated.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
<i>(cont.)</i>						
Australia (cont.)—						
Aviation turbine fuel ..	35,533	68,233	63,986	23,734	51,672	70,559
do. (bunkers) ..	4,371	6,680	5,125	32,881	72,183	112,942
do. do. (d) ..	10,834	1,965	792	2,400	11,802	13,887
Lubricating oil ..	5,872	4,467	14,813	50,610	52,227	62,046
Diesel and fuel oils ..	1,465,540	1,758,225	2,189,523	1,671,995	1,037,107	744,030
Fuel oil (bunkers)—						
Domestic produce ..	698,751	583,321	670,440	752,493	718,586	785,614
Foreign produce ..	6,652	8,410	5,448	8,845	4,614	2,506
Fiji (bunkers)(d)—						
Aviation spirit ..	5,398	5,381	2,353	2,085	1,669	1,574
Aviation turbine fuel ..	28,738	35,708	30,357	39,193	50,932	53,681
Diesel oil ..	11,660	12,429	13,415	9,574	9,378	11,755
Gas oil ..	382	2,129	1,521	1,460	3,008	2,797
Fuel oil ..	—	326	2,070	6,863	5,133	11,574
New Zealand—						
Aviation spirit (bunkers) (d) ..	5,063	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Diesel oil ..	—	—	—	—	(a) 4,129	(a) 1,340
do. (bunkers) ..	—	—	—	—	(a) 47,092	(a) 90,809
do. (bunkers) (d) ..	46,992	34,263	29,970	(a) 23,826	(a) 29,319	(a) 13,484
Fuel oil ..	—	—	—	(a) 28,986	(a) 222,144	(a) 288,731
do. (bunkers) ..	—	—	—	—	(a) 14,256	(a) 58,729
do. (bunkers) (d) ..	55,065	43,362	24,110	(a) 40,911	(a) 43,232	(a) 13,734
Lubricating oil (bunkers) (d) ..	1,547	1,632	1,660	(a) 1,848	(a) 1,921	(a) 1,934
Irish Republic—						
Aviation spirit (d) (b) ..	2,845	2,900	3,248	3,801	3,859	3,837
do. (d) (c) ..	44,239	34,574	20,045	15,857	14,478	11,065
Motor spirit ..	4,048	7,100	6,709	6,527	9,862	8,180
Aviation turbine fuel (c) ..	—	—	3,545	—	—	—
do. (d) (b) ..	10,699	12,137	14,073	15,399	6,111	38,691
do. (d) (c) ..	72,207	72,866	73,274	91,631	97,077	98,562
Gas and diesel oils ..	135,726	133,990	142,944	144,111	211,183	86,391
do. (bunkers) (d) (b) ..	—	—	—	—	5,864	8,909
do. do. (b) ..	9,509	7,405	9,359	11,036	10,542	5,964
Fuel oil ..	241,682	111,485	38,264	21,204	62,378	12,221
do. (bunkers) (d) (b) ..	11,282	5,255	—	—	—	—
do. do. (b) ..	86,045	70,130	81,632	93,248	101,646	91,970
OTHER COUNTRIES						
Albania—						
Crude petroleum ..	285,900	268,300	305,400	289,700	280,000	<i>n.a.</i>
Natural asphalt ..	27,700	11,200	11,200	10,000	11,000	<i>n.a.</i>
Other asphalt ..	166,100	134,600	193,000	238,400	264,000	<i>n.a.</i>
Austria—						
Crude petroleum ..	1	1	—	1	1	1
Motor spirit ..	4	37	52	59	21	184
Gas oil ..	82,753	191,625	202,674	128,922	123,974	24,562
Fuel oil ..	201	10	—	2	6	16
Lubricating oil, etc. ..	4,487	10,780	14,936	75,865	71,964	54,449

(a) Years ended June 30 of that stated.

(b) Bunkers for foreign ships or aircraft only.

(c) Exports to Shannon Free Airport.

(d) Foreign produce. See imports.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Belgium-Luxemburg						
E.U.—						
Crude petroleum ..	79	1,670	—	28	—	157,143
Motor spirit	369,321	426,213	832,347	613,902	848,683	878,642
Kerosine	161,043	177,712	206,528	396,171	434,780	461,470
Gas oil	782,454	794,451	1,207,982	1,303,896	1,295,950	1,082,749
do. (bunkers) (a) ..	80,180	83,470	85,465	109,033	208,020	260,239
Fuel oil, etc. .. .	677,278	600,031	1,002,879	730,742	521,286	847,546
do. (bunkers) (a) ..	707,488	980,462	1,219,691	1,412,951	1,592,888	1,529,519
Lubricating oil ..	103,818	111,023	123,106	129,520	154,133	154,196
do. (bunkers) (a) ..	4,386	8,665	5,234	9,872	7,006	6,877
Other heavy oils ..	39	2,994	4	29,885	2,576	1,888
Petroleum jelly ..	1,581	1,665	1,311	804	354	234
Paraffin wax .. .	76	65	80	93	67	161
Ozokerite and ceresin (c) ..	35	45	68	28	44	40
Petroleum coke ..	816	5,943	27,549	40,410	25,228	26,836
Natural asphalt ..	335	47	193	255	254	368
Pitch	196,472	223,005	287,945	234,859	194,920	220,997
Bulgaria—						
Crude petroleum ..	124,353	114,190	78,400	40,177	3,871	<i>n.a.</i>
Denmark—						
Aviation spirit .. .	1,497	2,845	5,561	3,070	5,925	1,498
Motor spirit	1,411	138,147	80,335	171,466	259,965	319,570
White spirit	40	1,090	925	482	28	6
Kerosine	494	6,820	17,576	6,835	4,559	24,166
Gas oil	7,925	74,123	33,726	44,591	63,269	(b) 322,552
Diesel oil	328	11,463	8,313	65,087	146,981	(b) —
Fuel oil	31,292	294,856	215,527	308,744	193,071	(b) 32,761
Gas oil (bunkers) ..	30,190					
Diesel oil (bunkers) ..	78,919	273,571	314,810	352,949	376,058	446,632
Fuel oil (bunkers) ..	89,062					
Lubricating oil ..	3,832	2,362	4,331	7,998	10,690	16,743
Grease	1,202	1,531	1,401	933	910	1,308
France—						
Aviation spirit .. .	61,183	13,998	16,894	11,788	(b) 2	(b) 7,371
Motor spirit	1,688,088	1,398,105	1,356,938	1,752,649	(b) 1,575,749	(b) 1,608,622
White spirit	8,840	8,090	13,922	23,262	(b) 21,386	(b) 22,320
Kerosine	648,016	589,058	444,225	220,200	(b) 202,247	(b) 49,123
Gas oil						
do. (bunkers)—	2,118,805	2,366,527	2,268,847	2,514,422	(b) 3,373,771	(b) 4,203,045
Domestic produce ..						
Fuel oil						
do. (bunkers)—	2,694,757	2,203,474	2,585,524	3,025,240	(b) 3,129,967	(b) 4,935,240
Domestic produce ..						
Lubricating oil ..						
do. (bunkers)—	179,386	183,578	216,536	252,438	(b) 232,993	(b) 264,147
Domestic produce ..						
Petroleum jelly ..	124	230	1,735	1,876	(b) 1,996	(b) 1,098
Paraffin wax .. .	8,860	9,647	8,168	10,391	(b) 7,975	(b) 11,256
Ozokerite, ceresin, etc. ..	798	763	592	639	(b) 28	(b) 35
Petroleum coke ..	2,301	1	2,963	<i>n.a.</i>	(b) 34	(b) 11
Natural asphalt and bitumen	27,054	21,063	20,183	20,106	(b) 18,926	(b) 23,603
Mastic asphalt .. .	5,344	3,421	2,956	3,160	(b) 1,949	(b) 2,475
Bitumen	183,885	126,846	130,436	235,651	(b) 267,377	(b) 366,088

(a) Bunkers for foreign ships or aircraft only.

(b) Owing to reclassification not strictly comparable with earlier years.

(c) Including montan wax.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (Federal)—						
Aviation spirit						
(bunkers) (a) ..	63,502	52,870	53,324	57,340	65,410	50,331
Motor spirit	1,150,893	1,151,549	1,216,740	1,105,860	1,062,878	1,156,711
White spirit	4,272	5,779	8,624	10,272	9,057	6,232
Kerosine	8,093	4,921	30,352	16,477	4,515	11,936
Aviation turbine fuel ..	9,606	205,686	19,414	104,652	11,543	23,392
do. (bunkers) (a) ..	139,711	187,890	227,130	290,209	335,965	453,519
Gas and diesel oil ..	736,148	770,568	1,128,708	964,552	342,260	321,815
do. (bunkers) (a) ..	100,308	147,656	203,152	254,410	220,702	256,558
Fuel oil	2,184,887	1,261,259	1,892,879	2,735,669	2,732,093	2,737,497
do. (bunkers) (a) ..	501,512	737,826	835,672	1,222,496	1,286,208	1,332,908
Lubricating oil	80,027	73,770	87,891	97,296	98,917	153,096
do. (bunkers) (a) ..	9,463	9,726	9,970	9,901	—	—
Petroleum jelly	5,266	7,189	9,031	10,648	13,340	13,521
Paraffin wax	22,037	29,846	31,840	34,925	417,829	47,588
Ozokerite, etc.	74	26	38	36	<i>n.a.</i>	<i>n.a.</i>
Natural asphalt and bitumen	568	567	504	2,055	1,627	847
Bitumen	67,414	105,925	131,010	177,352	222,349	220,830
Petroleum coke	96,722	101,333	141,538	148,452	161,075	150,956
Germany (East)—						
Motor spirit	364,455	381,854	412,176	418,138	465,532	114,188
Diesel oil	370,316	364,062	426,783	435,901	665,578	505,527
Greece—						
Diesel and fuel oils ..	47	26,555	19,346	20,326	2,869	<i>n.a.</i>
Hungary—						
Motor spirit	94,506	115,664	81,177	121,638	148,000	160,000
Kerosine	10,070	140	236	208	<i>n.a.</i>	<i>n.a.</i>
Gas oil	171,707	193,045	159,466	164,198	153,000	157,000
Fuel oil	212,287	259,240	227,028	258,571	175,000	311,000
Lubricating oil	13,222	13,401	13,319	13,546	13,523	13,492
Paraffin wax and ceresin	1,526	1,991	1,198	512	<i>n.a.</i>	<i>n.a.</i>
Bitumen	148,956	169,773	194,237	165,822	167,000	198,000
Italy—						
Crude petroleum	r 468,025	r 328,937	176,478	331	81	59
Aviation and motor spirits	r1,753,438	1,845,429	1,785,448	r1,852,096	2,572,511	3,482,393
do. (bunkers) (a) ..	r 205,175	209,453	321,208	r 305,687	63,519	103,000
White spirit	12,826	14,530	15,656	13,295	(b)	(b)
Kerosine	r 559,281	634,485	779,177	r 792,613	1,249,745	1,322,649
Lubricating oil	r 28,659	48,880	54,090	r 80,165	142,055	235,469
Gas oil	r2,507,468	r3,342,617	4,073,429	r7,677,762	14,789,304	15,639,935
do. (bunkers) (a) ..	r 255,648	298,857	232,473	r3,897,546	1,836,740	4,789,793
Fuel oil	2,528,374	r2,477,806	2,576,418	(c)	(c)	(c)
do. (bunkers) (a) ..	r2,248,540	r2,408,929	2,553,257	(d)	(d)	(d)
Paraffin wax	868	1,017	1,346	r 1,246	749	1,954
Natural asphalt and bitumen	r 9,082	8,346	9,007	6,859	6,858	6,221
Pitch	r 116,921	r 121,139	140,220	132,350	113,820	122,864
Netherlands—						
Aviation spirit						
(bunkers) (a)	1,537	1,807	3,542	3,443	9,743	8,835
Motor spirit	2,548,248	2,818,378	2,780,236	2,940,537	3,132,500	3,766,313
Kerosine	607,625	631,326	558,292	647,964	735,480	735,739
Gas oil	2,577,081	2,659,159	2,264,160	2,085,516	2,893,940	3,615,192
do. (bunkers) (a) ..	455,390	415,683	330,132	352,607	502,628	502,666
Fuel oil	4,896,176	4,800,485	3,451,824	3,511,260	3,558,226	3,943,932
do. (bunkers) (a) ..	1,424,970	1,688,191	2,042,368	2,778,157	2,753,230	2,921,736

(a) Bunkers for foreign ships or aircraft only.

(b) Included with aviation and motor spirits.

(c) Included with gas oil.

(d) Included with gas oil (bunkers).

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Netherlands (cont.)—						
Lubricating oil ..	223,686	263,329	239,328	309,681	301,269	291,350
Petroleum jelly ..	4,944	6,104	6,315	7,620	8,379	7,368
Paraffin wax ..	17,272	9,128	10,854	13,890	13,429	12,529
Ozokerite and ceresin(d)	218	195	304	221	58	126
Pitch ..	225,607	230,106	364,785	377,831	341,067	356,127
Natural asphalt ..	31	—	43	—	51	81
Petroleum coke ..	36,495	54,335	54,713	56,681	57,443	51,402
Norway—						
Motor spirit ..	72,225	146,112	123,873	227,004	143,655	151,167
Kerosine ..	4,962	12,559	7,977	2,651	22	7
Fuel oil and solar oil ..	546,812	1,017,629	1,077,229	1,183,648	1,063,147	923,849
Lubricating oil ..	15,865	17,944	18,631	20,581	45,762	22,544
Poland—						
Kerosine ..	7,400	n.a.	14,271	} 576,700	} 1,010,874	} 510,489
Fuel oils ..	269,800	n.a.	545,841			
Lubricating oil ..	3,235	n.a.	3,530			
Paraffin wax ..	5,597	n.a.	2,974			
Asphalt ..	1,306	n.a.	9,928			
Portugal (b)—						
Motor spirit ..	75,994	46,733	47,141	57,204	42,885	47,883
Kerosine ..	40,979	28,242	44,589	18,742	13	132,338
Fuel oil ..	98,214	73,056	113,912	151,212	126,282	48,501
do. (bunkers) (a) ..	4,394	1,818	3,428	26,734	57,569	44,298
Lubricating oil, etc. ..	1,660	1,591	2,363	2,693	4,115	5,131
Bitumen ..	79	5	20	204	7	30
Natural asphalt ..	522	55	274	487	332	48
Roumania—						
Motor spirit(c) ..	2,044,100	1,841,600	1,764,500	1,629,200	1,421,300	1,162,700
Kerosine ..	607,100	592,000	412,600	332,400	275,700	272,500
Gas oil ..	1,740,000	1,621,800	1,583,400	1,869,800	1,947,800	1,918,900
Fuel oil ..	1,283,600	1,444,600	1,618,500	1,864,500	1,612,700	1,928,700
Lubricating oil ..	242,400	201,700	270,500	298,300	289,200	269,800
Paraffin wax ..	30,200	23,100	24,700	20,600	19,500	20,000
Petroleum coke ..	26,100	27,900	54,300	55,400	50,700	36,300
Bitumen ..	84,900	97,700	99,300	103,200	104,500	68,600
Spain—						
Motor spirit ..	63,717	53,887	61,555	117	100	13
Diesel oil ..	—	—	19,522	2,023	89,463	163,077
Fuel oil ..	41,423	20,679	—	—	39	233,683
Sweden—						
Motor spirit, etc. ..	2,663	12,740	87,017	172,440	127,591	143,763
White spirit ..	510	} 1,194	9,372	505	5	—
Kerosine ..	2,361		7,664	7,967	13,746	
Fuel oil and gas oil ..	49,492	66,727	117,593	147,738	151,029	194,068
Lubricating oil and grease ..	36,135	40,013	41,330	47,649	46,809	47,283
Paraffin wax ..	27	14	11	3	39	16
Asphalt ..	3	23	42	26	38	—
Pitch ..	30,430	36,742	30,599	40,482	46,141	40,666
Switzerland—						
Motor spirit ..	16	3	567	11,521	21,606	15,637
Fuel oil ..	1	35	953	62,230	104,587	116,516
Lubricating oil and grease ..	1,077	1,222	419	1,379	843	1,157
Petroleum coke ..	3,713	8,733	15,570	17,568	9,430	7,081
Asphalt and bitumen ..	2,124	2,002	1,810	3,533	2,634	2,973
U.S.S.R.—						
Crude petroleum ..	23,018,900	25,864,400	29,765,300	36,111,200	42,746,000	49,519,700
Motor spirit ..	3,532,700	3,104,800	3,289,400	2,703,800	2,315,600	2,660,000

(a) Bunkers for foreign ships or aircraft only.

(b) See imports for amounts imported for bunkering national ships.

(c) Including white spirit and special kerosine.

(d) Including montan wax.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
U.S.S.R. (cont.)—						
Kerosine	1,058,800	1,274,400	1,248,700	875,500	1,146,700	1,232,800
Diesel oil	5,607,700	6,286,500	7,370,100	6,743,200	7,244,500	8,157,600
Fuel oil	6,748,500	7,614,400	8,440,900	8,913,300	9,556,200	10,469,200
Lubricating oil and grease	416,000	431,700	381,200	290,000	271,400	265,600
Paraffin wax	23,300	30,000	28,700	32,900	27,500	29,300
Bitumen	73,600	21,700	18,300	23,100	22,900	29,700
Yugoslavia—						
Crude petroleum	175,692	551,867	447,903	310,843	142,442	318,900
Aviation spirit	<i>n.a.</i>	<i>n.a.</i>	654	17	1,261	1,001
Motor spirit	16,084	25,239	9,771	21,026	22,120	161,626
White spirit	167	189	247	379	143	293
Aviation turbine fuel	<i>n.a.</i>	<i>n.a.</i>	1,536	—	—	12,804
Gas oil	3,974	151,928	3,904	1,735	19,695	184,822
Fuel oil	60,926	75,724	65,276	73,660	132,492	409,443
Lubricating oil	10,160	24,931	46,016	44,757	51,895	42,863
Mastic asphalt	394	12	—	—	—	—
Algeria—						
Crude petroleum	—	—	23,309,700	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Angola—						
Crude petroleum	—	113,135	312,697	355,348	122,378	1
Fuel oil	71,690	85,451	168,262	196,979	203,199	186,500
Canary Islands—						
Motor spirit (a)	176,533	318,511	189,775	246,218	292,170	172,197
Kerosine (a)	53,976	61,422	68,377	122,899	108,042	167,149
Diesel (a) (b)	114,486	147,944	166,484	154,187	196,898	134,972
do. (bunkers) (b)	174,217	121,209	119,693	92,134	8,463	57,776
Fuel oil (a) (b)	201,776	255,730	375,377	592,709	699,500	396,689
do. (bunkers) (b)	288,411	345,175	342,856	319,201	33,577	297,156
Paraffin wax (a)	327	—	—	—	339	9
Asphalt (a)	33,122	52,144	46,962	37,304	33,735	76,529
Ceuta (c)—						
Diesel oil	6,096	441	28	—	—	—
do. (bunkers)	105,679	489,887	95,360	21,118	24,285	28,597
Fuel oil (bunkers)	412,199	414,437	396,006	122,857	157,590	175,780
Congo (Republic of)—						
Crude petroleum	91,949	132,875	99,464	77,951	69,880	64,153
Egypt—						
Crude petroleum	1,780,886	2,802,844	3,386,654	2,982,145	1,592,062	1,509,830
Motor spirit	46,764	266,709	145,663	470,451	431,176	588,759
Kerosine	4,591	4,288	3,937	12,795	15,340	44,462
Gas and diesel oils	7,323	12,184	829,686	1,127,705	1,733,455	1,077,438
Fuel oil	29,347	171,508				
do. (bunkers) (d)	137,281	84,146				
Gabon—						
Crude petroleum	726,155	804,758	928,871	1,051,237	1,260,982	1,364,557
Libya—						
Crude petroleum	681,000	7,727,929	23,859,392	44,901,448	63,304,220	71,084,574
Morocco—						
Gas oil	6	7,129	3,089	<i>n.a.</i>	39,728	<i>n.a.</i>
South Africa—						
Motor spirit	47	4	137	4,030	2,784	46,439
do. (bunkers) (c)	5,318	13,121	5,823	1,272		
Kerosine	1,765	98	9,100	22,796	23,415	48,727
Gas oil (bunkers) (c)	8,896	16,723	14,069	<i>n.a.</i>		
Diesel oil	45	153	25,410	64,688	100,391	201,578
do. (bunkers)	4,705	4,324	17,410	52,816		
do. (bunkers) (c)	28,777	26,313	23,559	8,191	984,725	1,207,046
Fuel oil	12,146	241	36,074	587,379		
do. (bunkers)	245,664	267,448	360,575	732,558	18,946	<i>n.a.</i>
do. (bunkers) (c)	210,537	152,062	127,583	18,946		
Asphalt and bitumen	43,414	43,263	26,614	6,095	<i>n.a.</i>	<i>n.a.</i>

(a) Excluding exports to Spain and other Spanish Dependencies.

(b) Including foreign produce.

(d) Bunkers of foreign produce.

(c) Foreign produce. See imports.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Tunisia (bunkers)—						
Aviation spirit	—	—	—	5,698	—	n.a.
Fuel oil	—	25	—	254	3,976	n.a.
Lubricating oil and grease	185	116	123	143	193	n.a.
Mexico—						
Crude petroleum	913,531	1,038,797	989,559	1,113,693	1,037,149	1,453,597
Motor spirit	40,920	3,115	20,141	4,739	873	9,601
Fuel oil	1,132,626	1,607,093	1,578,429	1,378,775	1,482,139	1,022,564
do. (bunkers)	22,168	46,189	55,118	24,679	22,912	34,630
Gas oil	7,132	5,778	37,166	302	22	225
Paraffin wax	704	1,581	1,664	1,794	2,783	949
Natural gas (million cu. ft.) (a)	51,756	49,888	47,621	59,510	54,327	16,096
Netherlands Antilles—						
Crude petroleum	322,000	374,000	289,000	478,000	369,000	339,000
Aviation spirit	1,455,000	1,601,000	1,563,000	1,558,000	1,504,000	1,138,000
Motor spirit	2,524,000	2,424,000	2,508,000	2,825,000	3,031,000	3,109,000
White spirit	57,000	61,000	56,000	74,000	72,000	50,000
Kerosine	1,060,000	830,000	859,000	724,000	642,000	444,000
Aviation turbine fuel	2,155,000	2,264,000	n.a.	2,882,000	3,008,000	3,641,000
Gas oil	3,665,000	4,378,000	4,705,000	3,488,000	2,836,000	3,701,000
Diesel oil	1,296,000	1,302,000	1,465,000	1,678,000	1,245,000	1,396,000
Fuel oil	20,792,000	21,802,000	21,357,000	21,858,000	21,860,000	19,453,000
Lubricating oil	655,000	814,000	599,000	809,000	939,000	654,000
Asphalt	894,000	835,000	808,000	898,000	865,000	934,000
United States—						
Crude petroleum	430,373	239,015	242,465	181,480	224,071	521,432
Natural gasoline	942	995	2,224	1,661	(b)	(b)
Aviation spirit	323,678	161,654	139,047	97,177	96,747	139,134
Motor spirit	77,085	62,343	91,183	51,278	65,843	61,923
Other finished light products	128,492	146,658	n.a.	n.a.	261,456	66,325
Kerosine	26,767	39,680	65,321	20,319	21,163	31,636
Aviation turbine fuel	15,452	10,585	21,173	21,597	19,625	15,028
Gas oil and distillate fuel oil	957,356	1,248,478	2,353,099	910,949	592,233	522,030
Residual fuel oil	2,080,066	1,874,269	2,228,511	2,790,584	2,187,049	1,931,417
Fuel oil (bunkers)	10,801,000	9,837,000	9,168,000	9,205,000	8,520,000	n.a.
Lubricating oil	2,248,462	2,326,245	2,444,273	2,410,537	1,986,713	2,067,445
Transformer oil	43,181	43,188	51,194	57,372	50,882	51,819
Greases	47,551	52,678	50,244	52,362	50,686	49,911
Paraffin wax	123,440	144,801	148,049	179,597	174,514	198,689
Petroleum jelly	32,911	31,884	32,100	31,624	29,378	26,544
Natural asphalt and bitumen	29,455	40,790	36,478	34,161	37,826	36,252
Other asphalt, etc.	82,793	116,384	106,467	99,635	55,292	60,615
Petroleum coke	1,298,341	1,331,473	1,921,902	2,431,794	2,114,689	2,588,429
Liquefied petroleum gases	299,434	326,923	387,870	452,705	633,744	689,406
Natural gas (million cu. ft.)	10,747	14,835	15,964	17,275	23,891	51,754
Argentina—						
Crude petroleum	31,502	250,388	100,260	15,960	—	3,039
Kerosine	1,997	24,758	7,482	—	1,033	191
Gas oil	n.a.	n.a.	33,458	—	5	154,547
Fuel oil	32,037	488,024	610,169	469,865	878,065	985,792
Paraffin wax	20	430	790	974	758	1,354
Asphalt	348	1,092	3,271	2,068	1,351	5,723
Grahamite ("Rafaelite")	1,152	713	828	1,052	443	150
Bolivia—						
Crude petroleum	r 90,061	r 67,131	96,868	r 39,995	36,104	66,824
Motor spirit	7,035	976	n.a.	n.a.	n.a.	n.a.
Kerosine	—	81	n.a.	n.a.	n.a.	n.a.

(a) Imports into the United States.

(b) Included with motor spirit.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES (cont.)						
Brazil—						
Crude petroleum ..	1,035,867	292,855	354,445	n.a.	n.a.	n.a.
Fuel oil	73,643	75,926	31,732	728	n.a.	n.a.
Colombia—						
Crude petroleum ..	3,800,199	3,348,082	4,295,293	4,181,307	5,521,144	4,816,877
Gas and diesel oil ..	—	2,181	17,071	—	—	—
Fuel oil	395,166	597,856	344,781	686,455	701,951	904,405
Ecuador—						
Crude petroleum ..	—	145,892	160,972	76,000	76,147	n.a.
Peru—						
Crude petroleum ..	330,958	362,406	370,882	393,550	338,623	274,495
Natural gasoline ..	919	3,168	—	—	6	—
Aviation spirit ..	6,580	1,654	—	225	—	—
Motor spirit	4,894	357	39	1	—	362
Kerosine	36,513	671	322	40	61	36
Gas oil (a)	188,978	112,643	24,096	6,508	6,000	8,685
Fuel oil and diesel oil ..	68,568	105,617	75,851	62,964	75,743	41,573
do. (bunkers) ..	36,437	25,074	27,228	26,371	40,577	38,770
Lubricating oil and grease	331	1,211	2,585	1,365	3,686	1,988
Asphalt	20	—	—	2	—	—
Venezuela—						
Crude petroleum ..	104,045,485	113,757,962	113,892,005	120,452,116	119,472,921	116,117,048
Motor spirit	2,265,766	2,349,614	2,677,331	2,187,050	2,984,333	2,326,263
Kerosine	877,551	1,160,292	1,208,577	1,524,263	1,924,508	2,090,325
Aviation turbine fuel ..	263,987	552,917	218,864	305,882	270,875	177,971
Gas oil	3,348,942	3,739,665	4,794,759	4,013,734	3,252,247	41,877,901
Diesel oil	2,558,107	2,759,686	2,898,506	2,467,774	2,308,104	
Fuel oil	27,826,224	29,619,033	30,836,490	34,196,501	36,775,054	255,380
Lubricating oil ..	194,323	242,623	259,662	233,360	274,689	
Paraffin wax	—	—	—	—	1,707	—
Asphalt	490,927	539,476	500,893	478,564	517,804	495,596
Burma—						
Paraffin wax	7,617	9,649	10,661	6,555	4,608	n.a.
Formosa—						
Motor spirit, etc. ..	10,666	35,818	—	1,267	4,104	4,242
Fuel oil	39,018	32,788	50,304	80,384	36,524	n.a.
Lubricating oil ..	n.a.	n.a.	12	30	480	n.a.
Asphalt	31,573	36,745	27,639	12,776	12,221	17,957
Indonesia—						
Crude petroleum ..	9,577,801	5,445,685	9,398,856	n.a.	n.a.	n.a.
Motor spirit	1,149,511	1,147,770	938,825	n.a.	n.a.	n.a.
White spirit	—	—				
Kerosine	427,653	484,418	387,423	n.a.	n.a.	n.a.
Gas and diesel oils ..	913,687	977,295	4,193,290	n.a.	n.a.	n.a.
do. do. (bunker oil)	123,817	82,538				
Fuel oil	2,423,030	3,323,435	n.a.	n.a.	n.a.	n.a.
do. (bunker oil) ..	517,113	337,908	44,063	n.a.	n.a.	n.a.
Lubricating oil ..	20,146	26,194				
Paraffin wax	61,278	61,766	n.a.	n.a.	n.a.	n.a.
Iran (b)—						
Crude petroleum ..	41,162,557	44,521,989	51,383,320	57,128,588	74,122,716	74,774,554
Motor spirit	2,229,280	2,441,973	2,539,360	2,805,275	3,002,058	3,705,045
Kerosine	855,041	796,876	654,616	826,136	565,977	497,150
Gas oil	1,081,857	1,421,767	1,115,294	1,183,547	1,120,734	1,217,418
Diesel oil	575,763	557,483	473,513	386,888	289,941	319,437
Fuel oil	6,426,674	6,708,862	7,091,693	7,990,372	7,802,112	7,776,523
Pitch	2,173	97,646	75,884	88,182	37,439	72,295
Iraq—						
Crude petroleum ..	45,851,135	45,937,931	53,237,116	58,246,932	60,674,147	62,014,787
Motor spirit	n.a.	n.a.	1,426	n.a.	n.a.	n.a.
Kerosine	n.a.	n.a.	4	n.a.	n.a.	n.a.

(a) Including bunkers.

(b) Years ended March 20 following that stated.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Japan—						
Motor spirit	460,436	319,111	238,943	260,413	393,580	369,613
Kerosine	40,409	68,400	84,275	175,850	178,905	294,266
Gas oil	77,450	75,022	75,125	163,658	178,561	194,680
Lubricating oils	6,680	10,675	401,245	90,317	76,361	220,880
Paraffin wax	9,080	8,355	8,270	11,696	12,737	18,219
Asphalt and pitch	67,570	81,758	173,592	94,569	23,663	13,539
Jordan—						
Motor spirit	440	691	484	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Kerosine	<i>n.a.</i>	<i>n.a.</i>	56	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Asphalt and bitumen	<i>n.a.</i>	<i>n.a.</i>	9,094	6,350	15,037	20,224
Kuwait—						
Crude petroleum	72,997,668	81,298,330	85,323,283	94,443,539	96,261,808	101,684,739
Light distillate	600,096	565,000	610,000	1,017,000		
Gas oil	1,460,859	1,795,000	2,144,000	2,446,000		
Diesel oil	48,348	91,000	26,000	34,000		
do. (bunkers)	141,201	(b)	(b)	(b)		
Fuel oil	2,094,033	2,035,000	2,064,000	2,291,000		
do. (bunkers)	2,947,494	3,612,000	3,833,000	3,991,854		
					6,669,724	6,551,509
					3,673,359	3,664,397
Netherlands New Guinea—						
Crude petroleum	164,791	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Neutral Zone (a)—						
Crude petroleum	7,463,000	9,394,000	13,273,000	15,527,000	15,575,000	<i>n.a.</i>
Fuel oil	975,000	2,478,000	2,288,000	2,622,000	1,458,000	<i>n.a.</i>
Saudi Arabia—						
Crude petroleum	55,955,606	62,089,088	66,472,079	70,832,950	84,213,009	102,459,954
Aviation spirit	18,700	25,200	12,700	16,000	10,000	<i>n.a.</i>
Motor spirit	811,300	749,800	967,000	1,234,200	1,771,000	<i>n.a.</i>
Kerosine	611,000	414,000	384,500	280,100	136,000	<i>n.a.</i>
Aviation turbine fuel	411,600	562,200	566,400	752,600	1,040,000	<i>n.a.</i>
Diesel oil	1,504,700	1,450,400	1,871,000	1,557,200	1,527,000	<i>n.a.</i>
Fuel oil	5,332,400	5,339,500	5,759,700	5,922,700	6,438,000	<i>n.a.</i>
Syria—						
Natural asphalt	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	100	551	296
Turkey—						
Motor spirit	<i>n.a.</i>	<i>n.a.</i>	41,194	46,261	17,615	28,297
Fuel oil	23,519	489,611	663,747	679,382	490,006	381,768

(a) Neutral Zone of Kuwait and Saudi Arabia.

(b) Included with fuel oil.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS*
(Less Re-exports)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Crude petroleum (g) ..	48,900,509	52,240,771	54,173,381	59,339,000	65,653,203	70,152,881
Aviation spirit (a) ..	289,035	185,832	170,971	145,257	131,192	132,604
Aviation turbine fuel ..	144,719	103,576	51,227	39,081	32,171	12,199
Motor spirit (f) ..	2,192,403	2,385,290	2,888,706	3,151,744	3,163,714	3,462,064
Other spirit ..	342,670	707,927	986,046	1,762,400	2,091,415	2,922,502
Kerosine ..	482,884	708,049	791,324	572,547	633,259	666,755
Aviation jet fuel ..	81,527	183,534	216,085	242,715	358,350	355,182
Fuel oil (a) ..	5,310,629	7,317,177	8,474,633	8,852,982	10,258,862	9,958,374
Diesel oil ..	121,856	170,544	154,312	226,710	219,980	337,479
Gas oil ..	2,042,461	2,164,449	2,766,285	2,711,069	2,246,371	2,735,003
Lubricating oil ..	515,185	503,072	528,036	532,319	560,608	603,118
Greases ..	2,503	2,805	2,589	752	450	487
Other oils ..	68,433	205,625	26,837	2,532	1,752	2,204
Mineral jelly ..	4,824	4,583	3,691	3,920	3,097	3,116
Paraffin wax ..	31,682	23,967	22,730	10,719	11,969	35,611
Other petroleum wax ..	53,579	836,787	764,142	159,074	105,696	75,299
Petroleum coke ..	44,272	58,869	68,012	94,884	92,685	93,197
Asphalt and bitumen (d)	83,866	86,040	82,122	98,060	81,151	76,888
Natural gas (Million cu. ft.) ..	—	—	—	3,200	22,700	21,600
Channel Islands—						
Aviation spirit ..	3,558	3,975	3,427	3,514	2,734	2,021
Motor spirit ..	25,777	26,369	27,631	19,432	31,387	23,116
Other spirit (b) ..	42	309	299	51	128	132
Kerosine ..	9,854	12,796	14,037	14,425	18,513	22,137
Gas and fuel oil ..	100,449	126,333	167,218	174,609	201,906	75,074
Lubricating oil ..	1,504	1,679	1,645	1,831	1,745	2,470
Greases (b) ..	26	27	48	164	23	30
Gibraltar (e)—						
Aviation spirit ..	7,540	4,808	(h) 4,000	(h) 5,000	(h)(c) 413	(h) 10,118
Motor spirit ..	5,000	10,400	8,400	10,000	3,375	3,354
Diesel oil ..	10,441	11,470	} 192,000	} 179,000	{ (c) 11,181	(c) 20,399
Fuel oil ..	3,288	3,288				
Lubricating oil ..	1,075	1,161	1,848	2,250	1,709	1,595
Kerosine ..	41	50	65	90	31	33
Malta—						
Aviation spirit (a) ..	6,972	9,998	14,428	12,044	9,080	2,131
Motor spirit ..	20,330	16,167	21,445	19,238	23,979	20,264
Aviation turbine fuel (a)	26,097	30,595	47,607	38,831	40,505	44,818
Kerosine ..	27,339	25,137	24,112	30,026	19,953	28,367
Fuel oil (a) ..	38,701	55,251	58,597	91,040	89,835	75,724
Gas oil (a) ..	17,453	17,863	18,301	22,596	33,494	36,441
Lubricating oil ..	1,367	1,532	1,146	1,536	1,339	1,851
Paraffin wax ..	438	441	421	400	15	215
Bitumen ..	1,440	1,439	2,038	1,721	1,999	1,993
Gambia—						
Aviation spirit ..	284	—	—	—	—	—
Motor spirit ..	2,938	3,129	3,438	3,690	3,857	4,785
Kerosine ..	667	698	776	737	860	913
Aviation turbine fuel ..	415	175	—	—	—	—
Other fuel oils ..	—	115	14	—	—	—
Gas oil ..	2,808	2,908	3,001	1,554	} 3,966	} 4,684
Diesel oil ..	521	553	587	1,856		
Lubricating oil ..	229	354	294	251	203	3,326
Asphalt and bitumen ..	296	867	689	827	—	11

*Excluding the United Kingdom, the following rates have been used for converting Imperial gallons to long tons: Aviation spirit 315, Motor spirit 305, Aviation turbine fuel 275, Kerosine 275, Gas oil 260, Diesel oil 256, Fuel oil 240, Lubricating oil 250, Crude petroleum 245, Asphalt 220, Road oil 220.

(a) Including imports for bunkering purposes.

See exports.

(b) Jersey only.

(c) Excess of re-exports.

(d) Natural.

(e) Excluding imports for bunkers.

(f) Including white spirit.

(g) Including partly refined.

(h) Including aviation turbine fuel.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES (cont.)						
Ghana—						
Crude petroleum ..	2	—	205,594	549,593	604,293	487,215
Aviation spirit (b) ..	2,518	3,192	2,859	4,937	1,236	2,055
Motor spirit ..	103,127	130,776	92,810	1,225	1,079	6,295
White spirit ..	1,312	2	18	345	406	269
Kerosine ..	34,498	45,126	26,421	20	—	1
Aviation turbine fuel ..	4,591	14,161	12,866	12,288	20,390	8,347
Fuel oil (b) ..	25,260	29,047	52,516	7,002	7,673	—
Gas oil (b) ..	145,518	181,824	156,137	222	3,040	—
Diesel oil ..	131,675	29,001	14,811	750	2	1
Lubricating oil (b) ..	12,423	15,424	14,359	15,095	20,759	10,718
Greases ..	540	752	1,398	954	986	796
Petroleum jelly ..	80	823	1,095	259	606	1,255
Asphalt and bitumen ..	15,415	39,136	7,480	9,489	12,008	9,282
Kenya—						
Crude petroleum ..	—	—	217,566	1,476,566	1,814,865	1,819,368
Aviation spirit (b) ..	14,959	13,358	15,033	11,319	5,830	9,861
Motor spirit (b) ..	106,527	117,334	105,171	14,689	821	12,507
Kerosine ..	74,264	(b)(c)96,570	(b)(c)89,171	(b)(c)38,628	(b)(c) 5,350	(b)(c)86,022
Gas, diesel, fuel oils (b)	573,589	601,182	576,269	53,227	97,819	15,494
Lubricating oil (b) ..	14,296	13,256	5,455	8,529	14,547	8,812
Greases ..	922	832	679	134	723	463
Petroleum jelly and paraffin wax ..	354	459	617	447	903	772
Asphalt ..	16,178	16,910	9,493	4,244	842	1,000
Malawi—						
Aviation spirit ..	} n.a.	} n.a.	} n.a.	21,102	n.a.	n.a.
Motor-spirit ..				17,895	15,709	n.a.
Kerosine ..				6,203	6,132	n.a.
Aviation turbine fuel ..				556	436	n.a.
White spirit ..				15	2	n.a.
Gas oil ..				21,568	23,086	n.a.
Diesel oil ..				111	} 1,933	n.a.
Fuel oil ..				1,390		n.a.
Lubricating oil ..				1,354		n.a.
Grease ..				58	81	n.a.
Asphalt and bitumen ..	744	1,501	n.a.			
Mauritius—						
Aviation spirit (b) ..	1,293	2,664	1,225	1,202	2,607	2,004
Motor spirit ..	12,109	23,509	24,161	21,692	23,159	20,266
Aviation turbine fuel (b)	1,361	836	1,620	3,019	3,453	1,724
Kerosine ..	2,797	5,491	5,165	7,668	13,549	12,226
Lubricating oils ..	2,065	1,881	1,792	2,130	2,292	1,581
Gas, diesel, fuel oils (b)	39,861	47,990	34,617	68,393	58,138	52,689
Grease ..	147	200	185	130	114	108
Asphalt and pitch ..	2,752	2,345	2,739	4,455	5,867	1,795
Asphalt, natural ..	1,333	417	498	512	1,433	559
Nigeria—						
Aviation spirit ..	21,624	(a) 3,919	(a) 19,374	50,661	6,719	(a) 178
Motor spirit ..	211,180	701,905	228,929	270,871	245,782	(a) 3,459
White spirit ..	101	21,932	23,736	1,336	746	1,613
Aviation turbine fuel ..	28,394	43,712	20,730	77,987	64,928	2,754
Kerosine ..	102,358	475,060	132,889	411,782	84,678	13,895
Gas oil (b) ..	169,050	185,837	259,010	320,850	340,225	16,858
Diesel oil (b) ..	45,150	26,256	6,866	(a) 2,613	688	(a) 2,405
Fuel oil (b) ..	166,526	140,383	199,517	229,817	255,080	(a) 124,689
Lubricating oil ..	18,100	20,744	22,916	24,352	23,000	30,492
Petroleum jelly ..	41	1,159	1,734	1,372	960	1,996
Asphalt and bitumen ..	11,634	19,329	9,739	8,698	23,440	(a) 2,354

(a) Excess of re-exports.

(c) Including aviation turbine fuel.

 (b) Including imports for bunkering purposes.
 See exports.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES (cont.)						
Rhodesia (e)—						
Aviation spirit	10,267	9,417	7,542	4,333	4,802	n.a.
Motor spirit	244,723	248,642	237,509	148,162	53,682	n.a.
Kerosine	40,867	42,782	44,564	30,157	32,473	n.a.
Aviation jet fuel	25,878	32,664	35,661	32,319	10,110	n.a.
White spirit	2,251	2,253	2,260	1,853	976	n.a.
Other oils	1,396	1,372	1,052	1,064	1,218	n.a.
Gas oil	174,185	191,788	202,243	148,703	46,425	n.a.
Fuel oil	4,599	6,065	6,105	955	210	n.a.
Lubricating oil	17,528	21,153	18,263	12,329	13,754	n.a.
Greases (c)	1,803	2,040	1,601	1,286	1,634	n.a.
Paraffin wax	1,462	2,022	1,437	2,095	1,671	n.a.
Asphalt and bitumen	17,288	21,254	17,406	15,009	5,212	n.a.
St. Helena—						
Motor spirit	191	220	270	295	292	313
Kerosine	97	130	148	105	134	92
Fuel oils	141	208	115	264	614	397
Lubricating oil	10	15	17	19	16	12
Seychelles—						
Motor spirit	388	370	521	639	773	920
Kerosine	372	402	544	445	531	604
Fuel oil	650	860	1,660	2,538	2,885	3,500
Sierra Leone—						
Aviation spirit (a)	1,686	1,454	1,391	2,065	2,494	1,499
Motor spirit	19,372	21,571	21,680	20,973	25,748	24,647
Aviation turbine fuel (a)	—	802	1,924	n.a.	6,157	3,069
Kerosine	11,102	13,574	12,886	15,615	9,830	10,131
Gas oil (a)	138,696	158,084	131,787	244,060	(d) 3,392	149,449
Diesel oil (a)						
Fuel oil (a)	219,515	179,422	177,673	16,218	25,085	9,833
Lubricating oil	2,134	2,317	2,475	3,557	2,174	2,141
Asphalt and bitumen	2,900	2,972	5,676	2,947	3,500	n.a.
Tanzania—						
Crude petroleum	—	—	—	—	—	281,468
Aviation spirit (a)	3,047	4,603	1,512	3,777	4,669	3,073
Motor spirit	58,566	63,316	61,057	43,446	11,587	(d) 32,672
Aviation turbine fuel (a)	n.a.	n.a.	n.a.	6,232	n.a.	14,783
Kerosine	30,636	37,525	39,115	32,543	18,972	10,424
Gas, diesel, fuel oils (a)	165,573	175,379	205,094	66,499	45,553	(d) 26,239
Lubricating oil	6,048	8,086	6,400	6,622	6,567	9,202
Greases	650	605	513	348	473	541
Petroleum jelly and paraffin wax	47	91	83	81	116	200
Asphalt	7,699	3,390	4,600	910	140	810
Uganda—						
Aviation spirit (a)	3,703	3,334	3,265	3,336	3,604	2,984
Motor spirit	54,719	55,768	62,152	24,449	37,515	—
Kerosine	27,536	(a)(b)30,108	(a)(b)32,828	(a)(b)19,499	(a)(b)22,152	314
Gas, diesel, fuel oils	37,289	42,658	44,465	19,998	23,731	12
Lubricating oil	3,544	3,797	3,874	4,059	4,440	4,405
Greases	302	362	305	317	299	329
Petroleum jelly and paraffin wax	93	126	156	193	177	166
Asphalt	4,568	1,755	709	626	289	51
Zambia—						
Aviation spirit	n.a.	n.a.	n.a.	2,528	3,183	1,255
Motor spirit				72,769	93,293	69,920
Aviation turbine fuel				2,141	4,141	12,430
Kerosine				11,177	14,208	7,632
White spirit				123	530	36

(a) Including imports for bunkering purposes. See exports.

(d) Excess of re-exports.

(b) Including aviation turbine fuel.

(c) Including mineral jelly. (e) Figures for years 1961 to 1963 relate to Rhodesia and Nyasaland.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES (cont.)						
Zambia (cont.)—						
Gas oil	} <i>n.a.</i>	} <i>n.a.</i>	} <i>n.a.</i>	} 50,529	} 65,741	} 78,293
Diesel oil						
Fuel oil						
Lubricating oil and grease						
Paraffin wax						
Canada—						
Crude petroleum ..	19,035,569	19,216,815	21,102,981	19,137,461	19,224,555	20,868,127
Tops for refiners ..	—	—	6,689	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Aviation spirit	115,909	75,947	38,818	38,279	19,008	17,357
Motor spirit	84,493	90,496	242,898	236,183	252,221	276,032
Aviation turbine fuel ..	(c) 33,485	(c) 34,782	(c) 25,058	(f) 22,525	(f) 34,946	(f) 51,946
Kerosine, etc.	153,765	150,563	157,164	(f) 187,759	(f) 225,931	(f) 256,473
Lubricating oils	324,282	373,528	382,818	418,501	866,260	852,732
Diesel oil	2,962,946	3,094,324	3,416,641	f 4,193,310	f 6,210,475	f 5,979,186
Fuel oil	do. (e) 2,518	1,269	—	—	—	—
Other petroleum oils ..	7,208	5,178	5,226	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Liquefied petroleum gas	7,813	6,719	8,945	(f) 7,135	(f) 7,965	(f) 6,680
Grease	6,911	6,944	6,534	6,331	6,814	5,984
Petroleum jelly	(c) 18,610	(c) 17,006	(c) 16,751	1,478	1,476	2,084
Paraffin wax, etc. ..	5,565	6,292	13,224	(d) 15,510	(d) 14,971	(d) 6,701
Asphaltum oil, etc. ..	(g) 28,289	(g) 15,397	(g) 38,082	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Natural asphalt	326,557	301,846	328,943	391,381	366,308	445,673
Asphalt	142,852	138,928	137,647	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Petroleum coke	5,574	5,575	6,877	8,046	15,673	43,551
Other products						
Natural gas (million cubic feet)						
Antigua—						
Aviation spirit	2,906	2,888	5,178	4,096	3,266	4,874
Motor spirit	3,339	3,243	3,629	1,856	3,433	5,747
Kerosine	5,170	9,929	21,125	10,626	18,635	35,105
Fuel oils	5,988	6,745	7,482	5,314	10,377	117,090
Lubricating oil	378	100	235	229	322	2,798
Bahamas—						
Motor spirit	43,980	40,174	42,357	46,056	49,046	47,600
Kerosine	13,018	10,233	818	5,822	5,764	8,898
Fuel oils	59,900	88,204	80,258	113,587	103,820	107,896
Lubricating oil	1,492	1,112	1,220	1,680	1,768	1,912
Barbados—						
Crude petroleum	23,218	16,280	29,266	24,589	39,036	72,726
Aviation spirit (b) ..	2,232	2,252	2,512	1,880	2,108	2,799
Motor spirit	10,965	14,977	21,725	20,411	12,675	13,621
Kerosine (a) (b) ..	14,198	15,753	17,850	17,997	19,811	13,818
Gas oil and diesel oil (b)	} 16,384	} 221,696	} 262,301	} 93,853	} 147,956	} 368,464
Fuel oil (b)						
Lubricating oil						
Bermuda (b)—						
Aviation and motor spirits	96,264	70,859	59,517	55,053	49,206	40,552
Aviation turbine fuel ..	38,113	43,838	37,794	20,711	46,023	30,635
Kerosine	22,069	22,768	16,583	27,398	34,045	35,664
Diesel oil	41,375	48,411	40,413	41,819	22,713	<i>n.a.</i>
Fuel oil	19,974	12,349	22,759	29,610	34,509	12,916
Lubricating oil	957	1,025	894	941	718	945
Asphalt	577	1,614	—	1,832	1,157	1,130

(a) Including aviation turbine fuel.

(c) Included with "Other products".

(e) Fx warehoused, for ships' stores.

(b) Including imports for bunkering purposes. See exports.

(d) Paraffin wax only.

(f) Owing to reclassification not strictly comparable with earlier years.

(g) Included with "asphalt".

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES (cont.)						
British Honduras—						
Aviation spirit	41	207	489	143	30	—
Motor spirit	4,258	8,089	6,688	9,288	7,873	9,385
Kerosine	2,236	4,744	3,497	3,633	3,748	4,435
Diesel and fuel oils ..	9,989	8,847	7,881	8,620	14,335	12,873
Lubricating oil	490	828	6,648	522	770	948
Asphalt, etc.	102	516	1,447	42	14	731
Cayman Islands—						
Aviation and motor spirits	1,716	1,537	1,584	2,295	1,780	2,479
Kerosine	1,380	857	754	1,083	925	885
Diesel oil	972	358	1,036	1,321	908	1,823
Dominica—						
Aviation and motor spirits	1,980	1,753	3,176	2,665	3,093	3,407
Kerosine	960	920	1,176	1,185	1,312	1,180
Fuel oil and diesel oil ..	1,184	1,011	988	1,166	1,299	1,356
Lubricating oil	238	69	71	107	130	133
Road oil	246	291	239	496	1,535	550
Grenada—						
Aviation and motor spirits	2,933	3,587	3,498	3,878	4,231	4,873
Kerosine	1,679	2,019	1,458	1,947	2,285	2,479
Fuel oils	1,235	2,115	1,257	708	1,468	2,285
Lubricating oil	209	71	90	108	178	133
Road oil	1,496	56	27	605	6,451	446
Jamaica—						
Aviation spirit (b)	12,341	12,007	14,765	11,207	6,576	3,657
Motor spirit	78,190	84,927	83,602	36,731	750	109
Kerosine	20,602	37,938	74,290	48,530	1,559	5,516
Gas oil (b)	52,235	53,058	49,644	30,463	18,695	659
Diesel oil (b)	91,862	89,606	83,216	35,127	12,629	15,177
Fuel oil (b)	596,994	497,743	519,478	427,901	47,467	127,880
Lubricating oil	5,179	5,545	5,135	5,818	6,456	8,591
Grease	354	385	300	324	8	338
Petroleum jelly	248	246	279	296	230	322
Paraffin wax	12	12	23	57	101	82
Natural asphalt	1,812	2,348	3,708	6,589	1,804	792
Montserrat—						
Motor spirit	340	350	251	517	n.a.	n.a.
Kerosine	213	232	105	326	n.a.	n.a.
Fuel oils	359	606	322	517	n.a.	n.a.
Lubricating oil	18	29	46	61	n.a.	n.a.
St. Kitts—						
Motor spirit	1,280	(a) 2,443	1,559	1,707	1,965	2,295
Kerosine	1,873	(a) 2,118	1,793	1,983	2,079	2,284
Fuel oils	1,975	(a) 2,908	2,201	1,679	2,801	2,949
Lubricating oil	135	(a) 172	146	161	154	173
St. Lucia—						
Motor spirit	1,965	2,044	2,758	3,067	3,550	4,165
Kerosine	929	975	1,174	1,187	1,296	1,481
Fuel oil	2,513	2,702	2,804	3,181	3,351	3,738
Lubricating oil	112	142	142	128	229	189
Road oil	434	1,118	699	1,056	10	1
St. Vincent—						
Aviation and motor spirits	2,237	2,199	3,427	2,708	2,484	2,987
Kerosine	1,247	1,401	1,232	1,643	1,503	1,718
Gas, diesel and fuel oils	762	657	819	982	810	1,025

(a) Total imports.

 (b) Including imports for bunkering purposes.
See exports.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES (cont.)						
<i>St. Vincent (cont.)—</i>						
Lubricating oil	95	76	101	296	87	86
Road oil	860	439	389	585	804	833
Asphalt	5	4	—	n.a.	19	20
<i>Trinidad and Tobago—</i>						
Crude petroleum	8,795,309	9,036,205	9,740,022	11,998,998	12,832,504	12,761,889
Aviation and motor spirits	—	—	13,496	46,484	128	31,028
Kerosine	4	—	—	—	—	—
Fuel oil	—	18,337	8	(d) 1	5	29,931
Lubricating oil	6,558	6,572	8,286	8,048	4,452	4,114
Greases	378	246			232	297	265
Petroleum jelly	100	88	146	126	108	157
Paraffin wax	18	27	21	96	217	438
<i>Turks and Caicos Islands—</i>						
Aviation and motor spirit	156	131	354	n.a.	n.a.	n.a.
Kerosine	189	203	254	n.a.	n.a.	n.a.
Gas, diesel and fuel oils	98	204	347	n.a.	n.a.	n.a.
Lubricating oil	7	n.a.	n.a.	n.a.	n.a.	n.a.
<i>Virgin Islands—</i>						
Motor spirit	314	768	891	1,241	1,320	1,522
Kerosine	140	316	395	317	386	638
Diesel oil	122	430	372	578	791	1,397
Lubricating oil	10	30	35	31	64	106
<i>Falkland Islands—</i>						
Motor spirit	259	253	77	303	201	n.a.
Kerosine	30	31	7	24	8	n.a.
Gas and diesel oils	3,883	54	11,498	4,127	2,612	n.a.
Fuel oil (c)	63,178	31,168	14,944	5,705	3,127	n.a.
Lubricating oil	128	25	12	40	23	n.a.
<i>Guyana—</i>						
Aviation spirit (c)	7,929	4,262	n.a.	3,472	3,739	2,460
Motor spirit	21,967	18,618	n.a.	21,329	22,178	27,614
Kerosine	16,385	17,927	n.a.	18,681	22,369	35,130
Gas, diesel and fuel oils	414,193	287,145	n.a.	480,647	317,086	324,948
Lubricating oil	2,780	2,620	n.a.	2,263	3,259	3,486
Grease	292	273	n.a.	237	349	360
Paraffin wax	27	26	n.a.	33	21	40
Petroleum jelly	66	68	n.a.	54	56	89
Road oil	1,345	527	n.a.	652	1,201	3,108
Asphalt and bitumen	2,850	1,433	n.a.	1,548	3,922	10,071
Asphalt natural	879	753	n.a.	191	351	153
<i>Aden—</i>						
Crude petroleum	5,284,281	6,216,214	6,305,476	6,758,120	6,895,912	6,840,415
Motor spirit	26,921	33,792	35,393	75,569	114,508	89,886
Kerosine	—	761	—	10,881	7,310	—
Gas and fuel oils (c)	1,591,976	1,138,797	1,621,335	1,603,304	919,467	1,086,884
Lubricating oil and greases	4,097	6,479	6,815	7,198	5,775	8,295
<i>Aden Protectorate (b)—</i>						
Motor spirit	8,603	7,125	(e)	(e)	(e)	(e)
Kerosine	7,260	8,267	(e)	(e)	(e)	(e)
Gas and fuel oils	5,109	3,691	(e)	(e)	(e)	(e)
Lubricating oil and grease	98	198	(e)	(e)	(e)	(e)
<i>Bahrain Islands (a)—</i>						
Crude petroleum	8,444,000	9,533,000	8,799,000	7,666,000	6,740,000	6,753,000

(a) British Protected State.

(b) Exports from Aden to the Protectorate.

(c) Including imports for bunkering purposes. See exports.

(d) Excess of re-exports.

(e) Included with Aden.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES (cont.)						
Brunei—						
Aviation and motor spirits	525	103	272	509	1,023	2,124
Kerosine	1,233	1,547	1,741	1,557	717	1,764
Diesel oil	(c) 24	(c) 27	(c) 98	(c) 8	(c) 16	8
Fuel oil	(c) 11	4	—	(c) 3	(c) 1	4
Lubricating oil	1,188	1,670	934	1,019	1,292	1,813
Grease	29	117	50	95	25	53
Ceylon—						
Aviation spirit (a)	2,877	1,985	1,683	929	9,327	13,334
Motor spirit	164,435	134,160	136,683	102,780	161,813	159,313
Kerosine	154,795	176,634	136,826	151,694	180,783	291,577
Gas oil (a)	125,452	153,647	129,409	111,428	186,450	138,080
Diesel oil (a)	147,795	138,973	131,569	136,650	141,058	165,925
Fuel oil (a)	421,599	391,499	332,784	305,286	287,568	549,078
Lubricating oil	10,022	12,788	16,363	9,857	14,463	15,259
Other oils and greases	494	637	174	117	399	653
Paraffin wax	384	506	108	642	615	1,735
Asphalt (incl. natural)	1,719	3,718	4,183	10,314	5,777	21,161
Cyprus—						
Aviation spirit (a)	5,665	3,704	3,617	6,392	6,211	2,253
Motor spirit	55,396	59,408	56,798	54,782	63,870	68,336
Aviation turbine fuel	22,584	4,332	29,303	20,734	4,393	3,624
Kerosine, etc.	21,886	25,273	24,501	26,560	18,766	30,360
Gas oil	67,728	68,090	76,916	82,122	86,365	86,436
Other fuel oils	103,866	111,824	126,936	99,707	162,584	189,224
Lubricating oil	3,778	2,812	4,370	2,715	4,382	4,354
Paraffin wax	96	194	93	206	111	126
Asphalt and bitumen	10,925	13,527	15,872	10,480	10,600	12,156
Hong Kong—						
Aviation spirit	12,538	6,923	4,885	3,273	4,977	11,019
Motor spirit	60,014	54,812	66,346	64,359	65,285	74,777
White spirit	5,097	9,940	8,168	9,690	14,866	20,869
Aviation turbine fuel	54,288	83,149	106,830	98,127	159,299	161,536
Kerosine	107,210	120,439	141,708	130,675	130,538	169,500
Diesel oil and gas oil	219,799	243,716	271,116	264,440	300,774	377,854
Fuel oil	858,254	969,656	1,124,850	1,225,510	1,356,817	1,389,896
Lubricating oil	11,233	15,553	13,430	19,708	13,828	16,761
Greases	811	917	904	849	1,060	979
Petroleum jelly	258	264	315	376	183	290
Paraffin wax	1,028	1,410	1,317	1,141	1,120	7,132
Asphalt and bitumen	10,278	11,272	10,958	13,547	12,542	12,469
Asphalt (natural)	658	483	403	325	357	323
India (b)—						
Crude petroleum	6,220,280	4,258,742	7,024,269	4,161,948	5,427,392	5,067,363
Aviation and motor spirits	105,168	98,559	80,038	63,114	n.a.	n.a.
Other spirit						
Kerosine	711,235	1,590,508	1,289,740	848,808	n.a.	n.a.
Diesel oil	343,502	452,200	560,081	3,721,319	n.a.	n.a.
Fuel oil	164,983	200,920	905,390	296,173	n.a.	n.a.
Lubricating oil and grease	232,834	272,903	380,703	281,209	n.a.	n.a.
Turpentine substitute	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Petroleum jelly	1,735	1,513	1,570	3,622	n.a.	n.a.
Paraffin wax	11	16	—	2	n.a.	n.a.
Asphalt and bitumen	18,042	10,525	6,963	3,056	642	310
Malaysia (West)—						
Crude petroleum	n.a.	n.a.	n.a.	n.a.	2,224,834	2,645,259
Aviation spirit	n.a.	n.a.	n.a.	n.a.	1,866	4,159

(a) Including imports for bunkering purposes. See exports.

(b) Years ended March 31 following that stated.

(c) Excess of re-exports

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
<i>(cont.)</i>						
Malaysia (West) <i>(cont.)</i> —						
Motor spirit	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	96,897	82,464
White spirit	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	8,969	5,755
Aviation turbine fuel ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	14,033	21,052
Kerosine	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	43,543	41,458
Gas oil	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	223,253	286,927
Diesel oil	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	30,671	37,594
Fuel oil	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	16,578	35,865
Lubricating oil	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	21,917	22,534
Paraffin wax	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	3,087	2,521
Petroleum jelly	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	349	391
Grease	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,392	1,244
Asphalt and bitumen ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	10,773	9,901
Natural asphalt	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	144	264
Pakistan—						
Motor spirit	152,549	115,798	88,402	31,782	<i>n.a.</i>	<i>n.a.</i>
Kerosine	270,638	238,542	157,995	1,026,625	<i>n.a.</i>	<i>n.a.</i>
Diesel oil	1,374,823	769,334	827,844	1,039,519	<i>n.a.</i>	<i>n.a.</i>
Fuel oil						
Lubricating oil	48,628	47,147	84,816	52,903	<i>n.a.</i>	<i>n.a.</i>
Paraffin wax	1,384	1,107	1,155	2,293	<i>n.a.</i>	<i>n.a.</i>
Asphalt	25,354	41,836	30,140	53,809	<i>n.a.</i>	<i>n.a.</i>
Sabah—						
Aviation and motor spirits (a)	16,872	22,646	23,974	21,584	20,762	29,092
Kerosine	6,886	9,425	12,771	11,115	24,389	20,092
Diesel oil (a)	27,184	35,590	44,314	49,016	54,665	66,862
Fuel oil (a)	8,941	7,561	8,519	8,819	10,492	11,878
Lubricating oil	3,441	3,640	3,292	3,323	4,691	5,082
Sarawak—						
Crude petroleum	3,708,753	3,840,782	3,382,548	3,494,507	3,826,614	2,702,491
Aviation spirit	693	594	226	1,921	4,062	2,463
Motor spirit	12,220	13,174	14,489	15,447	22,005	22,775
Kerosine	10,621	11,155	13,176	13,874	9,423	9,516
Aviation turbine fuel ..	—	—	—	3,392	20,641	18,945
Gas oil	16,259	15,830	18,342	28,777	21,981	25,132
Diesel oil	3,527	4,635	4,319	7,130	22,288	19,878
Fuel oil	5,971	6,225	(b) 8,895	310	999	4,985
Lubricating oil	2,303	2,650	2,776	2,024	3,746	4,061
Paraffin wax	14	16	12	11	5	5
Mineral jelly	25	31	39	22	32	19
Natural gas (million cubic feet)	2,421	2,473	1,952	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Singapore—						
Crude petroleum	1,276,468	3,265,971	3,561,908	2,298,787	2,611,311	3,616,063
Aviation spirit	170,419	162,990	158,218	150,415	221,543	270,271
Motor spirit	752,351	581,389	657,002	573,634	443,463	584,147
White spirit	125,901	192,861	157,860	48,312	38,684	38,721
Aviation turbine fuel ..	251,499	273,934	206,981	173,903	542,677	980,487
Kerosine	458,059	423,089	340,838	293,804	443,462	353,304
Gas oil	714,345	645,820	819,839	655,721	677,199	819,726
Diesel oil	917,764	868,341	545,693	358,887	201,630	238,024
Fuel oil	2,443,005	2,162,328	2,457,507	3,428,784	4,165,714	3,466,158
Lubricating oil	26,725	28,632	50,528	63,912	88,181	120,708
Petroleum jelly	476	448	578	298	347	232
Grease	888	920	1,349	505	736	690
Asphalt and bitumen ..	<i>n.a.</i>	23,049	13,414	4,879	5,888	6,062
Petroleum coke	<i>n.a.</i>	4,015	6	3	26,065	21,048

(a) Including imports for bunkering purposes. See exports.

(b) Excess of re-exports.

(c) Including aviation turbine fuel.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES (cont.)						
Australia (c)—						
Crude petroleum ..	12,684,109	13,373,103	14,887,129	15,287,562	16,198,642	17,555,088
Aviation spirit (a) ..	38,643	48,004	46,889	63,736	68,573	63,711
Motor spirit ..	601,646	522,474	723,805	704,752	688,752	714,006
White spirit ..	55,807	46,806	49,014	49,279	25,130	(d) 6,207
Kerosine ..	345,107	254,197	224,597	166,176	92,450	87,425
Aviation turbine fuel (a)	69,413	74,657	119,923	87,207	150,619	177,143
Lubricating oil ..	207,231	183,764	235,195	183,843	119,769	73,524
Gas, diesel and fuel oils (a) ..	55,229	271,150	359,396	512,360	970,144	814,507
Other oils ..	40,978	9,209	11,795	10,725	7,776	n.a.
Petroleum jelly ..	1,586	1,236	1,817	1,711	1,748	2,043
Paraffin wax ..	6,728	5,405	8,871	10,764	8,700	13,040
Natural asphalt ..	1,369	1,277	1,777	1,494	486	3,711
Bitumen and pitch ..	1,011	544	6,175	1,610	2,207	190
Fiji—						
Aviation spirit (a) ..	8,431	9,517	3,733	5,557	4,922	3,698
Motor spirit ..	20,302	19,202	21,256	27,865	26,944	22,462
Aviation turbine fuel (a)	35,297	32,460	32,028	82,202	106,242	53,285
Kerosine ..	7,089	6,768	7,502	9,552	10,995	7,922
Gas oil (a) ..	13,731	14,337	10,113	20,526	27,083	16,332
Diesel oil (a) ..	23,747	35,235	42,535	60,027	50,860	46,594
Fuel oil (a) ..	—	844	4,366	45,268	21,732	23,081
Lubricating oil ..	1,237	1,537	1,593	2,242	1,967	2,187
Greases ..	145	140	174	188	217	150
Bitumen ..	1,378	1,152	1,595	1,793	2,832	1,665
New Guinea (c)—						
Aviation and motor spirits ..	17,610	19,322	26,979	25,955	26,042	32,477
Kerosine ..	4,844	2,935	4,926	4,647	6,739	5,477
Fuel oils ..	23,329	21,049	27,587	26,122	30,703	43,750
Lubricating oil ..	1,110	1,115	1,261	1,342	1,892	2,597
New Hebrides—						
Aviation spirit ..	387	274	207	257	258	307
Motor spirit ..	2,239	1,825	1,882	1,992	1,748	2,227
Kerosine ..	966	1,218	1,049	593	712	730
Lubricating oil ..	(b)	426	300	268	438	333
Other oils ..	5,113	r 5,421	r 5,465	6,469	8,084	8,099
New Zealand—						
Crude petroleum ..	—	—	—	(c) 189,467	(c) 2,599,763	(c) 2,732,753
Aviation spirit (a) ..	33,847	} 960,435	(c) 980,930	c 1,021,616	(c) 512,473	(c) 101,123
Motor spirit ..	959,996					
White spirit ..	12,205	11,394	(c) 16,890	(c) 20,740	(c) 26,528	(c) 20,864
Aviation turbine fuel ..	34,837	46,338	(c) 47,763	(c) 59,242	(c) 84,904	(c) 93,272
Kerosine ..	39,657	39,280	(c) 29,706	(c) 48,431	(c) 37,633	(c) 31,766
Gas oil ..	300,946	327,618	(c) 306,196	(c) 391,742	} c 204,988	(c) 74,589
Diesel oil (a) ..	168,860	138,262	(c) 95,430	(c) 106,976		
Fuel oil (a) ..	226,312	306,157	(c) 366,137	(c) 379,428	(c) 67,709	n.a.
Lubricating oil (a) ..	43,044	46,712	(c) 39,990	(c) 41,071	(c) 47,174	(c) 5,472
Transformer oil ..	930	1,767	(c) 1,327	(c) 2,198	(c) 2,089	n.a.
Petroleum jelly ..	158	240	(c) 346	(c) 353	(c) 385	(c) 387
Paraffin wax ..	1,390	2,141	(c) 1,677	(c) 1,738	(c) 2,169	(c) 3,045
Ozokerite ..	8	n.a.	n.a.	(c) —	n.a.	n.a.
Asphalt and bitumen ..	65,901	63,722	(c) 63,636	(c) 62,203	(c) 31,908	n.a.
do. natural ..	610	240	(c) 637	(c) 436	(c) 368	(c) 446
Papua (c)—						
Aviation and motor spirits ..	10,034	11,333	13,528	18,814	14,265	13,314
Kerosine ..	2,536	1,319	2,182	2,401	5,398	5,361
Fuel oil ..	5,972	6,588	6,781	7,947	18,111	15,482

(a) Including imports for bunkering purposes. See exports.

(b) Included with "other oils."

(c) Years ended June 30 of that stated.

(d) Owing to reclassification not strictly comparable with earlier years.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
<i>(cont.)</i>						
Papua (<i>d</i>) (<i>cont.</i>)—						
Lubricating oil and grease	653	511	512	834	885	1,018
Solomon Islands—						
Aviation spirit	133	172	172	269	404	401
Aviation turbine fuel .. .. .							56
Motor spirit	1,244	1,100	899	1,020	1,218	1,268
Kerosine	602	543	591	708	771	758
Fuel oils	3,041	3,357	3,176	4,210	5,078	5,243
Lubricating oil	<i>n.a.</i>	119	145	189	300	287
Western Samoa—						
Motor spirit	3,433	3,708	4,019	4,575	4,383	6,270
Kerosine	771	781	910	1,000	1,021	1,305
Fuel oil	1,251	1,035	1,854	1,961	2,675	2,434
Lubricating oil	83	148	104	175	200	181
Irish Republic—						
Crude petroleum	1,551,140	1,616,420	1,740,789	1,861,734	2,167,718	1,669,114
Aviation spirit (<i>b</i>)	51,042	39,472	21,025	22,503	15,883	17,265
Motor spirit	4,960	9,313	7,876	25,055	14,790	91,638
White spirit	3,379	3,315	2,984	4,539	3,925	3,293
Kerosine	104,185	70,656	88,594	83,867	77,865	87,697
Aviation turbine fuel (<i>b</i>)	74,027	106,767	94,896	124,715	129,881	139,499
Gas and diesel oils (<i>b</i>)	9,506	9,544	9,428	10,597	25,712	85,976
Fuel oil (<i>b</i>)	159,347	193,884	254,397	277,448	394,628	623,516
Lubricating oil	22,493	22,810	22,426	26,846	23,831	28,916
Greases	246	246	241	352	267	276
Other oils	3,069	3,423	3,050	2,341	3,188	11,464
Paraffin wax (<i>c</i>)	2,634	2,111	2,783	1,930	1,817	2,897
Asphalt and bitumen	68,756	87,755	3,244	5,089	2,657	3,227
do. natural	136	152	7,711	3,198	12	781
OTHER COUNTRIES						
Austria—						
Crude petroleum	266,994	618,378	811,662	775,394	651,219	1,143,989
Motor spirit	408,912	519,430	514,900	468,158	459,211	592,388
White spirit	6,864	6,933	6,409	6,589	7,013	7,263
Gas oil	60,303	61,431	69,110	79,937	102,391	110,526
Fuel oil	772,982	875,487	1,007,613	1,222,641	1,177,398	1,196,339
Lubricating oil, etc.	37,696	38,103	43,412	48,044	49,104	69,879
Petroleum jelly	269	280	272	293	295	320
Paraffin wax	5,065	5,630	6,344	6,856	7,205	7,068
Ozokerite and ceresin (<i>a</i>)	615	339	283	205	143	118
Natural asphalt	1,089	1,695	2,392	1,921	1,817	1,312
Petroleum coke	6,786	563	8,763	10,794	6,601	15,560
Bitumen, etc.	82,926	82,807	106,379	112,647	131,762	157,975
Belgium-Luxemburg						
E.U.—						
Crude petroleum	7,714,263	8,401,677	11,860,905	13,074,070	15,222,247	16,325,827
Motor spirit, etc.	362,963	423,065	343,866	269,138	324,763	362,132
Kerosine	25,563	40,460	22,002	28,607	16,981	17,142
Gas oil	826,347	1,100,286	1,123,187	1,146,457	1,507,141	1,863,925
Fuel oil	1,760,838	2,273,488	2,168,449	2,793,024	2,150,607	2,510,756
Lubricating oil	169,413	196,278	205,704	220,214	208,609	263,043
Other heavy oils	6,816	337	55,885	13,096	36,164	21,789
Petroleum jelly	1,481	1,441	1,348	1,204	1,196	1,289
Paraffin wax	5,908	6,507	6,711	8,007	7,067	7,063
Ozokerite and ceresin (<i>a</i>)	335	145	163	109	318	339
Petroleum coke	19,310	34,902	79,173	81,684	84,624	96,694

 (*a*) Including montan wax.

 (*b*) Including imports for bunkering purposes. See exports.

 (*c*) Including other mineral jellies and waxes.

 (*d*) Years ended June 30 of that stated.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Belgium-Luxembourg						
E. U. <i>(cont.)</i> —						
Natural asphalt.. ..	2,693	2,747	4,264	4,972	3,399	7,354
Pitch	13,527	18,521	25,515	26,967	33,139	39,483
Bulgaria—						
Crude petroleum	<i>n.a.</i>	<i>n.a.</i>	444,000	1,782,000	2,165,000	<i>n.a.</i>
Denmark—						
Crude petroleum	232,875	1,263,488	1,719,782	2,924,240	3,296,634	4,571,483
Aviation spirit	80,840	120,597	33,274	58,450	63,751	57,405
Motor spirit	1,000,610	945,344	896,982	983,904	1,112,099	1,017,074
White spirit	14,582	20,315	17,106	17,758	13,312	10,618
Kerosine	298,157	298,983	391,897	150,999	144,582	146,544
Gas oil	1,030,020	1,138,385	1,298,907	1,201,468	1,004,792	(a)3,075,648
Diesel oil	771,491	868,078	1,056,309	1,251,575	1,736,059	(a) 159,931
Fuel oil	2,182,827	2,360,095	2,378,893	2,653,885	2,725,151	2,696,835
Lubricating oil	70,133	80,244	66,115	85,701	80,994	103,692
Grease	942	1,311	1,427	1,320	1,788	1,759
Petroleum jelly	463	500	504	450	511	525
Ozokerite, etc.	863	1,351	1,093	1,164	799	1,008
Paraffin wax	5,735	5,890	5,768	6,328	7,283	7,958
Natural asphalt.. ..	959	1,752	1,976	2,473	1,434	1,407
Other asphalt	100,884	111,639	108,790	149,529	177,851	187,780
Faroe Islands—						
Motor spirit	2,402	2,058	2,578	2,302	2,950	3,217
Kerosine	2,751	2,687	2,080	3,398	3,860	2,363
Fuel oils	28,354	31,485	31,553	30,280	34,421	36,478
Lubricating oil, etc. ..	317	476	492	530	615	600
Finland—						
Crude petroleum	1,361,407	1,488,311	1,524,865	3,040,341	2,271,436	2,600,668
Motor spirit	32,301	16,506	18,911	12,210	26,457	<i>n.a.</i>
White spirit	4,733	6,145	5,255	5,189	8,194	5,698
Kerosine	26,923	24,392	26,507	17,300	23,183	25,433
do. Power	6	1	6	35	2	39
Fuel oil	1,459,568	1,863,309	1,913,954	2,192,472	3,131,687	1,591,760
Lubricating oil	45,170	48,796	46,839	59,540	64,440	77,011
Petroleum jelly	369	511	470	330	337	394
Paraffin wax	4,862	5,065	6,912	7,157	8,553	8,103
Asphalt, etc.	17,431	16,744	14,600	18,446	17,720	19,812
France—						
Crude petroleum	34,463,365	36,573,573	42,574,849	48,496,711	57,631,540	61,760,699
Aviation spirit	134,094	112,344	102,261	95,643	(a) 43,283	(a) 77,561
Motor spirit	572,603	636,937	586,656	499,056	(a) 422,244	(a) 433,651
White spirit	3,542	3,844	8,913	8,725	(a) 10,776	(a) 11,660
Kerosine	8,154	3,040	10,028	5,227	(a) 6,555	(a) 7,011
Lubricating oil	10,309	18,453	19,269	25,898	(a) 28,521	(a) 45,574
Fuel oil	1,108,191	1,588,227	2,529,976	2,588,116	(a)2,259,217	(a) 225,457
Gas oil	221,720	212,002	426,176	632,382	(a) 516,782	a 2,275,057
Petroleum coke	103,885	130,187	336,418	386,727	196,674	174,183
Paraffin wax	3,834	4,346	5,342	4,379	5,097	2,776
Ozokerite and ceresin ..	7,266	8,676	8,679	9,097	130	90
Petroleum jelly	686	671	696	706	564	512
Natural asphalt and bitumen	1,925	2,066	2,153	1,629	2,136	3,052
Bitumen.. ..	727	305	184	313	656	3,730
Natural gas (<i>million cu. ft.</i>)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	11	22
Germany (Federal)—						
Crude petroleum	28,830,783	32,677,499	39,444,856	50,466,543	58,135,270	66,617,607
Aviation spirit	154,515	164,174	159,415	177,076	} 990,978	1,401,074
Motor spirit	359,996	398,946	424,246	646,571		
White spirit	5,589	7,367	12,354	21,990		
Kerosine	74,128	13,015	20,092	32,613		

(a) Owing to reclassification not strictly comparable with earlier years.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (Federal)						
<i>(cont.)—</i>						
Aviation turbine fuel	97,530	166,473	122,150	190,925	216,711	265,989
Gas and diesel oil ..	717,760	1,083,065	1,419,579	2,137,570	2,475,567	1,415,487
Fuel oil ..	4,635,838	9,237,703	10,267,190	8,882,234	10,019,372	11,760,103
Lubricating oil, etc.	170,688	215,742	175,330	242,406	189,533	189,373
Petroleum jelly ..	1,691	1,936	1,388	1,741	1,564	1,437
Paraffin wax ..	14,237	24,244	20,959	24,839	21,083	28,565
Ozokerite, etc. ..	163	27	5	3	—	—
Natural asphalt and bitumen ..	11,625	14,079	16,717	18,118	16,437	20,913
Bitumen ..	347,114	459,162	845,838	671,130	488,400	528,359
Petroleum coke ..	98,658	120,920	165,580	194,787	278,803	368,761
Germany (East)—						
Crude petroleum ..	2,234,000	2,550,000	3,113,000	4,193,000	5,051,000	6,338,000
Greece—						
Crude petroleum ..	1,576,603	r1,437,274	2,129,000	1,678,770	2,548,843	3,064,299
Aviation spirit ..	11,981	13,587	11,295	11,690	11,927	8,956
Motor spirit ..	1,678	13,029	16,175	15,202	102,142	153,978
White spirit ..	869	1,163	1,440	1,866	2,476	2,915
Kerosine ..	94	2,868	503	1,359	3,938	3,744
Fuel oil and diesel oil ..	747,423	r1,049,261	1,385,879	1,220,547	1,978,947	1,275,318
Lubricating oil, etc. ..	22,054	23,358	26,809	31,839	37,746	36,815
Petroleum jelly ..	90	97	101	107	130	108
Paraffin wax ..	246	382	427	448	332	354
Asphalt and bitumen ..	680	1,628	7,223	16,083	6,605	991
Hungary—						
Crude petroleum ..	1,389,327	1,515,703	1,799,056	1,994,252	2,215,000	2,865,000
Motor spirit ..	56,137	61,602	88,136	120,656	106,000	55,000
Kerosine ..	—	—	—	29,320	—	—
Gas oil ..	89,243	118,676	177,466	221,783	157,000	129,000
Fuel oil ..	81,897	65,772	133,221	201,134	100,000	258,000
Iceland—						
Aviation spirit ..	10,848	12,118	12,857	14,991	15,265	4,720
Motor spirit ..	38,341	43,910	47,810	42,154	47,247	50,922
White spirit ..	466	470	491	833	15	485
Kerosine ..	7,705	1,488	1,272	3,868	490	835
Gas oil and fuel oil ..	278,895	306,887	343,875	346,170	374,813	403,481
Lubricating oil ..	4,074	4,794	4,267	4,380	4,707	5,204
Greases ..	137	184	—	—	—	—
Paraffin wax ..	145	181	188	203	152	174
Petroleum jelly ..	14	4	18	6	16	10
Asphalt ..	832	1,527	885	416	827	2,174
Italy—						
Crude petroleum ..	r32,852,477	r 39,399,986	45,366,105	r 54,241,053	66,225,989	74,937,863
Aviation and motor spirits ..	r 112,384	r 119,115	118,775	r 144,256	279,956	375,110
Kerosine ..	r 741	r 946	3,136	r 9,632	6,647	6,071
Gas oil ..	r 4,362	r 1,021	35,701	r 1,733,178	1,906,575	2,454,650
Fuel oil ..	r 1,968,616	r 2,801,017	3,102,497	r 1,733,178	1,906,575	2,454,650
Lubricating oil ..	r 108,465	r 120,256	155,336	r 145,004	93,198	92,664
Petroleum jelly ..	r 1,711	r 2,079	2,140	r 2,121	1,788	1,646
Paraffin wax ..	r 21,197	r 23,067	25,197	r 29,175	12,864	34,609
Pitch ..	r 180	r 285	200	r 1,895	330	437
Petroleum coke ..	r 132,035	r 151,885	191,438	r 238,427	220,682	266,364
Ozokerite and ceresin ..	r 470	r 328	280	(a)	(a)	(a)
Natural asphalt and bitumen ..	r 2,814	r 2,433	2,496	r 2,697	2,541	2,569
Netherlands—						
Crude petroleum ..	18,980,919	19,613,218	20,560,260	23,067,690	25,962,556	29,174,723
Motor spirit, etc. ..	113,062	109,550	120,656	277,575	389,719	302,675
Kerosine ..	209,526	235,305	345,505	369,995	374,078	296,709
Gas oil ..	1,014,940	989,196	1,232,137	1,365,985	1,280,555	1,776,059

(a) Included with paraffin wax.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Netherlands (cont.)—						
Fuel oil	3,578,248	3,565,012	2,936,625	3,688,683	4,017,995	3,854,840
Lubricating oil	151,793	144,166	157,096	175,801	123,483	346,038
Petroleum jelly	2,291	2,559	2,734	2,570	2,401	1,936
Paraffin wax	23,588	17,966	16,939	25,577	16,059	17,419
Ozokerite and ceresin (a)	155	156	128	166	196	195
Pitch	36,089	60,569	92,933	115,106	116,099	145,862
Petroleum coke	10,949	13,619	39,033	51,592	53,351	97,201
Natural asphalt	1,413	1,738	1,417	1,336	1,494	953
Norway—						
Crude petroleum	1,711,949	2,317,740	2,495,638	2,655,006	2,710,089	2,887,864
Aviation spirit	24,964	24,600	32,381	36,874	45,340	29,880
Motor spirit	305,700	432,831	406,661	399,795	444,463	473,503
White spirit	17,436	18,923	16,372	19,013	17,254	19,908
Kerosine	80,929	89,198	116,888	111,214	134,467	202,092
Aviation turbine fuel	104,375	70,208	76,359	93,579	67,222	112,688
Diesel oil	321,783	269,015	239,655	295,300	295,781	321,923
Gas oil	563,515	715,108	813,741	777,961	855,565	1,018,095
Fuel oil	1,222,330	1,119,421	1,273,368	1,498,522	1,156,662	1,542,826
Lubricating oil	36,838	37,442	39,471	44,548	21,157	51,152
Petroleum jelly	221	306	273	299	339	410
Paraffin wax	2,684	2,541	2,735	3,149	4,020	4,017
Greases	1,788	1,633	1,690	1,791	2,024	1,770
Pitch	17,325	11,064	30,929	41,908	51,892	49,679
Petroleum coke	96,349	124,572	113,108	144,290	173,943	169,530
Asphalt, etc.	13,645	14,769	425	1,889	1,524	1,607
Poland—						
Crude petroleum	727,900	1,025,000	1,393,200	1,680,900	3,164,788	3,293,857
Motor spirit	1,029,900		1,090,800			
Kerosine	45,500		51,800			
Fuel oils	972,600		1,454,700			
Lubricating oil	66,506	2,560,019	81,178	2,883,060	2,212,454	2,304,654
Paraffin wax	14,981		16,640			
Asphalt	85,464		68,991			
Petroleum coke	22,674		22,364			
Portugal—						
Crude petroleum	1,285,538	1,312,884	1,474,027	1,495,275	1,689,700	1,532,394
Motor spirit	22,212	23,285	21,628	51,366	89,855	100,821
Kerosine	24,137	39,699	19,426	18,446	11,548	18,037
Aviation turbine fuel	—	5	674	4,551	11,348	7,154
Gas oil and diesel oil	296,801	293,974	322,393	316,220	282,578	262,135
Fuel oil	247,877	275,512	284,625	266,167	343,815	340,242
Lubricating oil	34,184	32,363	34,796	39,059	45,843	46,527
Petroleum jelly	142	130	153	118	140	144
Paraffin wax	3,512	2,818	2,832	3,582	3,134	3,340
Ozokerite and ceresin	95	66	49	167	67	105
Bitumen	(c) 37,046	44,508	39,084	40,960	25,475	41,720
Natural asphalt	7,097	9,569	6,108	615	3,015	1,218
Spain—						
Crude petroleum	4,653,518	5,425,060	5,798,073	7,392,403	7,941,114	9,975,330
Motor spirit (b)	80,149	83,164	37,715	40,520	50,406	38,391
Kerosine (b)	17,315	28,741	9,075	16,798	3,924	46,461
Aviation turbine fuel	6,336	18,822	49,982	67,690	87,353	102,841
Diesel oil (b)	115,769	45,351	40,085	27,535	3,880	7,168
Lubricating oil (b)	11,082	39,333	6,779	32,902	12,593	35,394
Fuel oil (b)	9,818	9,210	34,390	28,241	132,774	145,101
Petroleum jelly (b)	732	931	850	1,400	1,274	1,308
Paraffin wax (b)	1,535	735	1,113	4,326	3,261	7,428
Asphalt (b)	713	536	1,062	834	1,407	17,951
Sweden—						
Crude petroleum	2,551,145	2,421,148	2,633,817	3,440,800	3,665,812	3,497,967
Motor spirit, etc.	1,540,238	1,832,333	2,696,592	3,001,259	2,378,378	2,480,620

(a) Including montan wax.

(b) Excluding imports from Canary Islands.

(c) Including petroleum coke.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Sweden (cont.)—						
White spirit	47,305	50,000	69,802	84,815	68,078	60,022
Kerosine	289,111	318,000	445,298	435,893	348,161	420,475
Fuel oil and gas oil ..	8,590,473	9,622,528	11,941,440	12,779,669	12,078,102	15,373,951
Lubricating oil and grease	114,944	130,866	123,743	151,360	154,603	151,604
Petroleum jelly	647	810	858	979	836	723
Paraffin wax	7,179	7,846	7,631	7,956	7,080	7,597
Ozokerite, ceresin, etc.	1,421	1,521	1,925	2,129	1,997	1,792
Asphalt	507	1,067	683	920	1,021	1,095
Pitch	7,018	8,424	9,441	9,545	10,473	21,778
Petroleum coke	12,849	9,947	12,700	10,053	24,824	18,966
Switzerland—						
Crude petroleum	<i>n.a.</i>	4,202	353,368	824,788	1,190,104	2,315,440
Motor spirit	1,132,780	1,032,682	1,253,188	1,274,386	1,313,958	1,319,360
White spirit	10,776	8,861	7,796	8,501	9,490	9,280
Kerosine	15,424	16,425	19,844	16,235	15,954	16,201
Gas and diesel oils ..	448,601	298,718	494,894	544,227	583,021	488,924
Fuel oil	2,398,116	3,302,971	4,192,766	3,905,578	4,617,356	4,180,938
Lubricating oil and grease	66,755	68,933	77,762	73,660	73,345	74,189
Petroleum jelly	805	830	702	742	829	781
Paraffin wax and ceresin	5,149	5,660	6,090	6,720	7,413	6,465
Asphalt and bitumen ..	128,279	147,039	191,804	215,752	230,619	264,506
Petroleum coke	27,052	35,954	65,173	49,363	53,550	49,449
U.S.S.R.—						
Crude petroleum	873,600	488,000	535,000	—	—	—
Motor spirit	1,752,000	1,556,300	1,510,800	1,363,800	1,202,100	922,200
Kerosine	268,500	240,200	200,400	148,800	166,300	46,900
Diesel oil	261,800	223,100	237,700	226,500	223,000	142,000
Fuel oil	47,000	42,900	50,200	51,700	49,600	324,300
Lubricating oil and grease	143,700	115,300	144,500	152,100	146,400	132,000
Paraffin wax	38,900	33,300	26,500	17,500	11,800	9,800
Bitumen	177,600	61,600	67,000	71,700	65,100	40,100
Yugoslavia—						
Crude petroleum	282,657	735,070	765,773	748,243	1,089,520	2,167,417
Aviation spirit	10,370	16,564	10,466	23,186	27,191	27,760
Motor spirit	103	—	1	—	1	1,523
Kerosine	9,402	4,632	4,509	5,549	2,527	8,573
Aviation turbine fuel ..	—	—	—	4	—	—
Fuel oils	123,460	229,432	137,381	258,315	134,896	181,658
Lubricating oil	23,381	19,761	21,671	49,722	14,070	42,880
Greases	317	194	334	639	160	3,163
Paraffin wax	1,786	2,682	2,755	3,856	5,035	5,905
Petroleum jelly	444	571	648	691	273	288
Ozokerite and ceresin ..	160	224	327	570	489	416
Petroleum coke	15,698	13,653	15,255	18,553	21,150	25,992
Pitch	5,022	1,820	21,240	76,349	59,823	17,640
Algeria—						
Motor spirit	323,600	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Kerosine	102,077	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Gas oil	420,991	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Fuel oil and diesel oil ..	451,500	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Lubricating oil	28,500	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Angola—						
Crude petroleum	119,691	—	—	—	—	—
Motor spirit	17,413	9,246	10,375	10,140	6,450	6,688
Kerosine	10,000	9,579	6,834	6,019	4,705	6,109
Gas oil and fuel oil ..	49,044	40,777	15,525	11,960	21,720	32,246
Lubricating oil	7,360	7,818	9,680	9,463	11,168	13,199
Paraffin wax	59	24	61	32	73	78
Petroleum jelly	29	27	34	41	33	20
Asphalt and bitumen ..	744	48	4,078	34	22	4,928

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Cameroun—						
Motor spirit, etc. ..	50,601	50,684	48,792	58,358	48,895	<i>n.a.</i>
Kerosine	26,062	24,327	26,760	30,008	25,189	<i>n.a.</i>
Gas and fuel oil ..	27,654	31,584	34,907	44,640	39,710	<i>n.a.</i>
Lubricating oil ..	3,596	3,939	4,107	8,171	4,942	<i>n.a.</i>
Canary Islands—						
Crude petroleum ..	2,658,809	4,100,273	4,554,742	5,044,962	5,243,457	6,051,080
Motor spirit	14,860	37,897	—	16,157	21,248	23,670
Diesel (b)	41,762	18,361	6,312	—	—	6,889
Fuel oil (b)	—	22,637	—	—	—	—
Cape Verde Islands—						
Motor spirit	551	783	599	629	958	700
Kerosine	1,750	1,610	1,988	2,212	2,360	2,618
Central African Republic—						
Aviation spirit ..				88	3,499	2,442
Motor spirit				11,414	12,941	10,865
Kerosine	(c)	(c)	(c)	4,202	4,760	4,282
Gas oil				8,872	10,855	10,135
Diesel oil				835	1,007	200
Ceuta (a)—						
Kerosine	<i>n.a.</i>	<i>n.a.</i>	—	84	—	—
Diesel (b)	111,055	130,299	121,271	47,924	37,639	41,471
Fuel oil (b)	267,007	303,399	292,915	44,762	62,477	56,996
Lubricating oil ..	3,811	367	3,523	3,212	3,632	3,424
Congo (Republic of)—						
Aviation spirit ..				10,635	3,344	2,562
Motor spirit				19,519	15,843	19,044
Kerosine	(c)	(c)	(c)	21,572	7,889	19,080
Gas oil				39,276	39,766	45,743
Fuel oil				4,273	7,615	18,851
Lubricating oil ..				3,498	3,786	3,574
Dahomey—						
Aviation spirit ..	373	832	13,021	478	492	176
Motor spirit	14,140	13,335	13,021	15,140	16,722	13,094
Kerosine	12,855	12,726	12,116	13,664	13,398	10,056
Gas oil	12,409	14,795	13,641	15,124	16,211	13,263
Fuel oils	837	535	777	729	1,145	844
Lubricating oil ..	807	1,146	1,348	1,264	1,398	1,215
Egypt—						
Crude petroleum ..	2,741,198	3,650,185	4,254,450	4,674,980	3,918,497	3,827,174
Motor spirit	9,821	5,529	23,149	8,743	11,059	16,568
White spirit	10	29	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Kerosine	330,537	312,931	138,623	21,713	35,367	139,518
Fuel oil	100,229	81,696	106,839	88,800	1,388	333
Gas oil	149,218	156,576	63,206	34,677	11,378	2,272
Diesel oil	15,156	17,687	3,149	12,290	2,684	148
Lubricating oil ..	52,201	34,880	65,497	57,036	44,985	84,654
Petroleum jelly ..	324	169	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Paraffin wax	1,104	151	<i>n.a.</i>	<i>n.a.</i>	3,240	2,474
Ozokerite and ceresin ..	100	151	<i>n.a.</i>	<i>n.a.</i>	3,240	2,474
Asphalt and bitumen ..	23	2,041	2,365	2	491	3
Equatorial African Community—						
Aviation spirit ..	26,411	23,616	<i>n.a.</i>	(d)	(d)	(d)
Motor spirit	50,181	56,702	<i>n.a.</i>	(d)	(d)	(d)
Kerosine	14,130	12,158	<i>n.a.</i>	(d)	(d)	(d)
Gas oil	71,450	73,760	<i>n.a.</i>	(d)	(d)	(d)
Fuel oil	5,789	6,321	<i>n.a.</i>	(d)	(d)	(d)
Lubricating oil, etc. ..	7,502	6,691	<i>n.a.</i>	(d)	(d)	(d)

(a) Excluding imports from Spain and Canary Islands.

(b) Imported chiefly for bunkering purposes. See exports.

(c) Included in Equatorial African Community.

(d) See Central African Republic, Congo (Republic of) and Gabon.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Ethiopia (a)—						
Aviation spirit	9,346	<i>n.a.</i>	1,684	6,489	<i>n.a.</i>	10,586
Motor spirit	79,534	<i>n.a.</i>	171,223	90,942	<i>n.a.</i>	58,690
Kerosine	4,017	<i>n.a.</i>	3,995	3,758	<i>n.a.</i>	5,223
Gas and fuel oils	28,644	<i>n.a.</i>	13,528	21,420	<i>n.a.</i>	77,272
Lubricating oil and grease	5,396	<i>n.a.</i>	3,864	4,368	<i>n.a.</i>	5,066
French Somaliland—						
Motor spirit	2,645	3,015	4,557	4,651	16,250	6,803
Kerosine	777	868	1,050	1,493		
Fuel oil, etc.	5,013	6,055	6,772	8,928		
Lubricating oil	400	467	457	585		
Gabon—						
Aviation spirit	(b)	(b)	(b)	3,313	3,080	2,972
Motor spirit				11,793	13,275	14,197
Kerosine				4,621	4,236	4,841
Gas oil				35,620	40,765	53,136
Fuel oil				142	207	212
Lubricating oil			3,142	2,825	3,736	
Ivory Coast—						
Crude petroleum	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	606,560
Aviation spirit	859	654	1,449	1,222	1,938	896
Motor spirit	90,757	88,203	86,259	107,574	98,599	2,663
Kerosine	28,396	28,171	28,983	32,951	30,125	674
Gas oil	35,251	42,730	52,088	69,090	66,497	237
Fuel oils	20,808	27,311	29,957	51,722	41,221	286
Lubricating oil	5,731	6,766	8,111	10,541	9,832	10,509
Liberia—						
Motor spirit	24,993	18,241	18,000	23,000	<i>n.a.</i>	<i>n.a.</i>
Kerosine	4,139	8,228	8,300	8,100	<i>n.a.</i>	<i>n.a.</i>
Diesel oil, etc.	26,884	57,398	58,000	58,000	<i>n.a.</i>	<i>n.a.</i>
Lubricating oil	2,328	4,135	4,000	4,500	<i>n.a.</i>	<i>n.a.</i>
Libya—						
Motor spirit	52,120	65,623	73,902	96,029	100,428	108,007
Kerosine, etc.	18,151	22,807	29,145	37,615	41,272	77,089
Gas oil and diesel oil	88,822	88,716	103,779	158,373	151,608	206,746
Fuel oil	6,731	7,280	17,208	24,237	32,674	59,290
Lubricating oil, etc.	6,047	6,946	8,260	12,170	9,245	9,991
Malagasy Republic—						
Aviation spirit	5,611	4,492	4,815	5,985	5,865	5,511
Motor spirit	51,533	54,354	55,918	60,557	61,573	61,951
Kerosine	16,972	17,710	18,167	20,236	20,196	17,801
Gas oil	38,832	46,105	50,385	50,523	72,290	63,190
Fuel oils	1,093	1,207	1,482	1,357	2,810	2,350
Lubricating oil	3,985	5,754	6,348	6,372	5,892	5,653
Road oil, etc.	5,289	3,520	4,759	6,063	6,395	8,407
Paraffin wax	117	761	665	1,427	1,743	2,337
Petroleum jelly	17	21	29	16	22	41
Asphalt and bitumen	34	18	427	347	24	38
Mali—						
Aviation spirit	2,195	3,048	5,702	69,142	1,874	1,219
Motor spirit	17,058	21,985	27,028		31,326	34,540
Kerosine	5,276	6,362	10,034		10,132	8,953
Gas and fuel oil	16,047	15,450	18,122		23,651	20,865
Lubricating oil	1,531	2,306	2,378		2,149	1,955
Morocco—						
Crude petroleum	127,134	119,293	451,162	1,094,507	1,103,106	<i>n.a.</i>
Aviation spirit	13,095	11,331	6,084	3,873	4,520	<i>n.a.</i>
Motor spirit	152,506	95,003	2,603	1,304	1,811	<i>n.a.</i>
White spirit	1,435	1,422	1,739	1,444	2,354	<i>n.a.</i>
Kerosine	45,724	28,057	17,290	21,883	21,135	<i>n.a.</i>
Gas oil	199,121	70,981	6,846	9,185	6,559	<i>n.a.</i>

(a) Years ended September 10.

(b) Included in Equatorial African Community.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
(cont.)						
Morocco (cont.)—						
Fuel oil	207,343	81,777	9,704	4,827	3,434	n.a.
Lubricating oil, etc. ..	19,052	17,072	17,673	13,866	15,443	n.a.
Paraffin wax	5,325	8,390	5,193	7,522	5,119	n.a.
Asphalt, bitumen, etc. . .	24,444	25,566	27,345	33,047	37,082	n.a.
Mozambique—						
Motor spirit	36,760	18,516	10,421	27,488	22,067	27,842
Kerosine	20,357	16,523	15,878	25,168	18,603	21,186
Fuel oil	75,461	31,059	18,374	50,402	40,319	49,980
Lubricating oil	7,093	6,130	6,487	9,243	8,848	9,769
Paraffin wax	80	61	79	76	35	2
Petroleum jelly	38	20	43	44	8	5
Asphalt and bitumen (a)	5,269	6,061	4,303	8,014	6,435	3,999
Niger—						
Aviation spirit	975	2,987	1,336	1,757	1,292	n.a.
Motor spirit	8,964	4,954	11,091	14,366	11,759	n.a.
Kerosine	2,361	3,001	3,634	4,747	4,532	n.a.
Gas oil	4,457	5,008	9,659	n.a.	2,704	n.a.
Fuel oils	335	1,767	2,485	3,251	3,961	n.a.
Lubricating oil	334	983	530	1,077	1,062	n.a.
Reunion—						
Motor spirit, etc.	16,900	18,934	22,293	25,549	27,635	29,264
Kerosine	2,538	2,683	3,866	4,490	6,508	8,268
Fuel oil, etc.	7,895	6,469	8,732	9,153	11,470	16,623
Lubricating oil	1,033	1,209	2,360	1,083	1,303	1,625
S. Tome and Principe—						
Motor spirit	n.a.	n.a.	n.a.	1,168	1,287	1,419
Gas and diesel oils	n.a.	n.a.	n.a.	1,275	1,369	1,489
Senegal—						
Aviation spirit	5,878	3,928	5,563	4,696	2,717	1,980
Motor spirit	66,797	71,821	65,401	37,865	42,776	72,342
Kerosine	11,683	12,324	18,276	6,043	6,937	13,441
Gas oil	17,304	20,209	16,767	9,775	10,849	17,197
Fuel oils	116,451	140,973	146,546	51,348	77,247	79,001
Lubricating oil	3,547	4,231	3,645	4,022	4,151	4,914
Somali Republic (c)—						
Aviation and motor spirit	5,816	6,470	5,212	6,052	3,849	n.a.
Kerosine	1,106	942	959	1,114	970	n.a.
Gas oil	2,775	3,110	2,927	4,437	3,586	n.a.
Lubricating oil	241	260	202	454	133	n.a.
South Africa—						
Crude petroleum	1,583,306	1,726,547	2,267,049	(e)5,105,000	(e)5,361,429	(e)5,737,106
Motor spirit (b)	1,173,318	1,191,633	1,056,403	(d) 656,839	(d) 698,243	(d) 774,626
Other spirit	16,449	17,977	19,184	(d) 6	—	n.a.
White spirit	30,355	29,803	33,111	36,979	39,925	35,207
Kerosine	391,749	370,520	381,895	(d) 411,669	(d) 340,309	(d) 421,913
Gas oil (b)	593,715	621,562	581,604	(d)357,188	(d) 459,223	(d) 608,160
Diesel oil (b)	4,840	23,535	23,688	—	—	—
Fuel oil (b)	208,296	228,396	128,292	(d) 3,858	(d) 85,013	(d) 18,988
Lubricating oil	119,008	143,376	101,208	(d) 149,892	(d) 195,092	(d) 187,184
Transformer oil	5,192	4,069	5,619	n.a.	n.a.	n.a.
Road oil	2,261	346	9	n.a.	n.a.	n.a.
Other oils	4,004	21,990	25,209	(d) 129,604	n.a.	n.a.
Paraffin wax	9,769	11,873	13,878	18,724	10,777	10,223
Asphalt and bitumen	33,633	31,014	32,208	6,087	4,961	14,502
Petroleum jelly	2,645	2,976	3,434	3,471	3,924	4,038
Sudan—						
Aviation spirit (b)	12,789	10,169	8,613	10,463	5,740	3,575
Motor spirit	74,105	70,266	81,302	76,849	42,596	(f) 9,348
Kerosine	51,684	60,014	68,468	64,173	31,126	4,909

(a) Including coal tar and pitch.

(b) Including imports for bunkering purposes. See exports.

(c) Former British Protectorate only.

(d) Owing to reclassification not strictly comparable with earlier years.

(e) Including partly-refined.

(f) Excess of re-exports.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Sudan (cont.)—						
Gas oil	99,074	111,677	141,880	113,564	80,413	22,896
Diesel oil	21,786	23,767	34,321	60,737	10,491	2,160
Fuel oil	176,403	195,998	195,514	158,034	44,039	(a) 9,923
Lubricating oil, etc.	11,339	12,085	13,471	11,902	11,306	(a) 6,600
Petroleum jelly	9	8	10	19	38	63
Paraffin wax	10	30	172	36	76	125
Asphalt and bitumen	6,799	8,631	8,040	7,455	3,847	2,155
Togo—						
Motor spirit	8,008	8,070	7,282	7,868	8,321	9,710
Kerosine	6,622	7,732	7,627	8,490	8,605	10,071
Fuel oil	14,450	13,421	20,526	25,251	26,514	37,966
Lubricating oil	1,020	526	776	1,155	1,084	1,273
Tunisia—						
Aviation spirit	68,841	73,639	75,979	18,070	1,782	n.a.
Motor spirit						
White spirit	140	323	441	577	566	4,380
Kerosine	45,517	48,130	51,560	18,324	2,127	
Fuel oil	233,761	236,571	262,607	68,393	n.a.	n.a.
Gas oil	109,910	119,112	136,013	25,164	1,920	n.a.
Lubricating oil	13,500	8,869	10,864	12,718	10,677	13,615
Petroleum jelly	12	19	1	39	44	n.a.
Paraffin wax	83	58	171	n.a.	180	n.a.
Upper Volta—						
Aviation spirit	1,539	1,009	564	34,672	29,905	n.a.
Motor spirit	13,111	10,774	11,816			
Kerosine	5,664	4,918	4,681			
Gas oil	5,976	5,345	5,362			
Fuel oils	3,093	5,452	5,932			
Lubricating oil	861	1,365	1,061			
Costa Rica—						
Motor spirit	53,816	57,013	62,019	61,982	65,992	69,357
Kerosine	9,901	13,054	13,398	12,143	14,214	14,870
Diesel oil, etc.	65,124	91,641	99,964	136,016	170,828	177,817
Fuel oil	27,049	12,308	15,070	—	—	17,201
Lubricating oil	5,372	7,676	10,196	10,601	10,318	10,210
Grease	244	337	266	293	364	294
Petroleum jelly	129	117	125	128	198	133
Paraffin wax	1,328	1,179	1,591	1,634	1,751	1,947
Asphalt	4,221	4,828	2,841	7,119	10,033	7,511
Dominican Republic—						
Aviation spirit	3,889	4,488	—	3,000	n.a.	n.a.
Motor spirit	72,402	66,971	98,000	140,000	n.a.	n.a.
Kerosine	15,366	16,035	19,000	23,000	n.a.	n.a.
Diesel oil	74,204	63,291	50,000	58,000	n.a.	n.a.
Fuel oil	126,152	n.a.	195,000	235,000	n.a.	n.a.
Lubricating oil, etc.	7,038	7,135	7,746	9,281	n.a.	n.a.
Paraffin wax	929	n.a.	n.a.	n.a.	n.a.	n.a.
Asphalt	9,005	10,627	n.a.	n.a.	n.a.	n.a.
French West Indies—						
Guadeloupe—						
Motor spirit, etc.	26,064	25,797	29,463	29,089	31,588	35,092
Kerosine	15,679	17,634	17,006	16,891	12,026	12,481
Gas and fuel oil	14,305	15,993	15,889	20,523	20,353	29,046
Lubricating oil	2,620	2,507	2,443	2,252	2,516	2,012
Martinique—						
Motor spirit, etc.	22,400	21,321	57,629	28,581	30,584	30,394
Kerosine	11,316	9,013	12,974	11,704	11,395	12,288
Gas and fuel oil	22,221	23,815	27,227	33,535	32,948	37,868
Lubricating oil	2,329	2,508	2,975	2,586	3,521	3,383
Greenland—						
Motor spirit	3,307	2,824	2,773	3,314	4,710	5,152
Kerosine	3,097	2,293	3,423	3,389	8,002	5,323
Fuel oil	50,592	45,226	53,904	66,478	72,765	79,743
Lubricating oil	343	470	644	613	1,392	1,343

(a) Excess of re-exports.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Guatemala—						
Crude petroleum, etc.	209,557	220,532	157,902	188,765	210,911	239,227
Aviation spirit ..	} 122,374	103,000	92,205	89,915	260,023	11,731
Motor spirit ..						
Kerosine ..	42,941	50,092	49,924	44,356	17,986	1,455
Diesel oil ..	} 87,807	84,210	52,144	271,035	99,887	123,000
Fuel oil ..						
Lubricating oil ..	5,417	6,369	8,717	9,347	10,210	6,666
Grease ..	520	523	633	510	729	619
Asphalt ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	4	3
Paraffin wax, etc. ..	5,428	5,664	5,529	7,133	6,196	7,117
Honduras—						
Crude petroleum ..	102,582	85,146	67,196	68,514	68,809	131,356
Motor spirit ..	40,291	43,587	44,006	50,651	48,677	53,745
Kerosine ..	10,623	12,387	13,397	15,230	16,790	19,540
Gas, diesel and fuel oils	75,227	72,883	92,640	83,545	90,051	97,834
Lubricating oil ..	5,828	4,892	4,003	} 4,073	4,028	} 3,352
Greases ..	513	465	392			
Pitch, asphalt, etc. ..	<i>n.a.</i>	<i>n.a.</i>	442	702	2,305	1,973
Mexico—						
Crude petroleum ..	26	2	20,798	82,290	(a) 33	(a) 18
Aviation spirit ..	6,353	6,528	3,129	3,715	(a) 6,238	(a) 23,633
Motor spirit ..	42,651	10,343	7,092	9,632	(a) 2,786	(a) 116,225
Kerosine ..	653	420	150	113	(a) 218	(a) 88
Gas oil ..	33,008	282	334	26,716	(a) 10,747	(a) 44
Fuel oil ..	82,802	91,288	159,354	207,153	<i>n.a.</i>	(a) 46,259
Lubricating oil ..	21,823	14,768	5,204	7,776	(a) 22,096	(a) 27,083
Grease ..	2,945	2,443	3,718	2,597	(a) 1,762	(a) 985
Paraffin wax ..	20,353	1,822	22,655	19,967	20,733	23,421
Petroleum jelly ..	1,611	1,411	2,176	1,641	2,002	1,382
Asphalt ..	1,039	468	814	505	157	442
Asphalt rock ..	123	173	136	252	352	585
Natural gas (<i>million cu. ft.</i>) ..	8,900	9,620	9,384	9,299	8,252	8,809
Netherlands Antilles—						
Crude petroleum ..	39,327,000	39,155,000	38,356,000	40,252,000	40,223,000	39,133,000
Aviation spirit ..	463,000	425,000	483,000	700,000	589,000	287,000
Motor spirit ..	810,000	444,000	455,000	215,000	366,000	251,000
Kerosine ..	131,000	82,000	46,000	100,000	230,000	241,000
Fuel oil ..	1,274,000	3,358,000	4,000,000	2,542,000	899,000	760,000
Diesel oil ..	74,000	21,000	20,000	3,000	91,000	104,000
Gas oil ..	248,000	266,000	172,000	64,000	123,000	191,000
Lubricating oil, etc. ..	92,000	17,000	—	2,000	10,000	7,000
Asphalt ..	—	—	—	—	10,000	3,000
Nicaragua—						
Crude petroleum ..	22	18,298	143,211	268,983	273,166	206,265
Aviation spirit ..	} 63,110	64,355	40,796	14,173	11,891	14,648
Motor spirit ..						
Kerosine ..	17,393	18,145	17,432	10,480	2,113	4,182
Fuel oil ..	90,799	103,709	62,414	8,525	8,781	14,122
Lubricating oil ..	4,492	4,109	3,954	6,287	5,713	5,389
Paraffin wax ..	} 809	853	915	1,107	913	1,358
Petroleum jelly ..						
Natural asphalt ..	—	—	—	—	3	3
Panama Republic—						
Aviation spirit ..	47,714	57,526	32,692	<i>n.a.</i>	} <i>n.a.</i>	<i>n.a.</i>
Motor spirit ..	88,013	59,861	363	459		
Kerosine ..	31,076	22,826	1,692	770	<i>n.a.</i>	<i>n.a.</i>
Diesel oil ..	64,211	42,135	12,620	13,010	} <i>n.a.</i>	<i>n.a.</i>
Fuel oil ..	146,244	168,251	98,231	30,758		
Lubricating oil ..	4,757	4,707	5,749	4,200	<i>n.a.</i>	<i>n.a.</i>
Grease ..	240	362	399	249	<i>n.a.</i>	<i>n.a.</i>
Paraffin wax, etc. ..	364	582	847	628	<i>n.a.</i>	<i>n.a.</i>

(a) Owing to reclassification not strictly comparable with earlier years.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
St. Pierre and Miquelon—						
Motor spirit	521	504	563	645	701	733
Gas oil and fuel oil ..	21,225	12,743	10,957	20,194	16,534	22,145
Lubricating oil	446	332	217	365	370	453
Salvador—						
Motor spirit	63,624	64,146	7,422	18,218	6,751	5,818
Kerosine	28,564	32,523	25,118	26,491	10,338	1,840
Gas oil and diesel oil ..	38,536	53,254	31,750	8,915	1,140	1,424
Fuel oil	48,232	52,886	368,135	467,183	305,327	484,815
Lubricating oil	3,558	3,612	4,436	4,301	4,958	4,958
Grease	333	389	388	384	503	523
Paraffin wax, etc.	815	1,106	1,230	1,242	1,633	1,795
Petroleum jelly	228	241	239	193	277	198
Asphalt	4,858	5,124	5,056	6,202	5,431	6,228
United States—						
Crude petroleum	58,897,926	64,398,618	64,946,020	68,882,069	71,641,242	76,062,104
Aviation spirit	1,619	299,897	304,265	387,799	270,509	584,257
Motor spirit, etc.	215,765					
Naphtha, etc.	112,394	1,281,455	1,078,140	2,721,273	433,455	n.a.
Kerosine	54,084	379	28,326	18,967	64,031	200
Aviation turbine fuel ..	1,476,386	2,213,007	3,325,304	3,102,997	4,051,197	4,220,937
Fuel oil	33,640,432	38,335,669	39,616,420	43,300,000	51,082,146	55,488,474
Gas oil and diesel oil ..	1,853,292	1,314,012	1,241,000	1,600,000		
Unfinished distillates and topped oils	3,674,336	3,028,321	n.a.	n.a.	n.a.	n.a.
Lubricating oil, etc. ..	2,381	3,961	3,473	5,223	4,451	4,480
Road oil, etc.	228,606	318,310	n.a.	n.a.	n.a.	n.a.
Paraffin wax, etc.	356	205	668	1,331	1,499	777
Ozokerite and ceresin ..	2,835	3,058	3,067	n.a.	n.a.	n.a.
Petroleum jelly	4	7,930	n.a.	n.a.	n.a.	n.a.
Asphalt (petroleum) ..	837,810	719,124	819,876	995,000	1,049,700	1,028,051
Natural asphalt and bitumen	21,051	43,930	25,389			
Natural gas (million cu. ft.)	218,860	372,389	406,204	427,641	453,199	480,000
Argentina—						
Crude petroleum	1,771,838	1,097,826	854,790	1,454,214	3,495,878	3,646,397
Motor spirit	66,220	50,158	34,062	27,466	62,783	24,972
Kerosine	522,444	328,334	30,667	16,151	13,051	84
Gas oil	642,228	679,302	396,336	753,379	530,187	434,230
Fuel oil	2,336	—	—	—	—	15,796
Diesel oil	219,533	266,528	57,217	277,531	46,149	—
Lubricating oil	34,731	109,380	72,287	67,956	104,547	93,923
Grease	341	647	132	337	353	139
Paraffin wax	17	28	15	53	59	2
Petroleum jelly	14	40	53	234	69	65
Bolivia—						
Aviation spirit	9,280	10,893	11,931	12,530	10,567	n.a.
Motor spirit	33	89	67	22	43	n.a.
Kerosine	92	167	82	53	88	n.a.
Fuel oil	n.a.	6,957	163	411	211	n.a.
Lubricating oil and grease	2,356	2,785	1,363	1,052	1,290	n.a.
Paraffin wax, etc.	1,644	1,699	1,845	1,989	2,117	n.a.
Tar, pitch, etc.	957	5	10	5	26	n.a.
Brazil—						
Crude petroleum	7,429,857	9,803,889	10,210,620	10,632,724	10,085,482	11,143,663
Aviation spirit	248,219	238,206	200,977	145,817	159,987	128,930
Motor spirit	548,472	174,457	313,385	145,522	n.a.	n.a.
White spirit	2,793	3	1	2	n.a.	3
Kerosine	135,576	85,025	16,427	245,129	271,738	263,836
Diesel oil	589,916	37,549	53,631	n.a.	—	—
Fuel oil	1,269,636	122,001	—	n.a.	19,157	17,071
Lubricating oil	179,182	231,679	214,240	260,651	206,339	272,834

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Brazil (cont.)—						
Transformer oil ..	1,772	6,669	10,291	7,335	5,928	9,743
Petroleum jelly ..	1,210	1,146	1,461	1,610	1,053	1,561
Greases	174	58	79	16	23	83
Paraffin wax ..	13,446	20,574	16,441	14,161	12,267	19,747
Ozokerite and ceresin ..	203	1	230	317	125	558
Asphalt and bitumen ..	4,175	626	515	498	365	711
Chile—						
Aviation spirit ..	8,847	12,855	697	5,800	343	<i>n.a.</i>
Motor spirit ..	18,335	19,404	12,612		9,759	<i>n.a.</i>
Kerosine ..	37,449	43,384	71,849	57,000	66,353	<i>n.a.</i>
Diesel oil ..	153,564	111,109	140,322	60,000	114,266	<i>n.a.</i>
Residual fuel oil (a) ..	1,164,540	991,234	951,231	823,000	1,200,269	<i>n.a.</i>
Lubricating oil ..	15,823	10,642	12,600	30,000	9,611	<i>n.a.</i>
Petroleum jelly ..	205	139	347		271	<i>n.a.</i>
Greases ..	2,567	1,243	2,080	<i>n.a.</i>	1,911	<i>n.a.</i>
Paraffin wax ..	8,730	5,558	13,371		11,186	<i>n.a.</i>
Natural asphalt ..	234	230	1,405	<i>n.a.</i>	358	<i>n.a.</i>
Colombia—						
Aviation spirit ..	17,348	13,040	31,329	42,308	11,838	9,841
Motor spirit ..	104,631	169,079	3,814	1,100	22	31,510
Kerosine ..	5,948	407	402	55	41	187
Gas oil and diesel oil ..	12,692	468	—	28	9	264
Fuel oils ..	780	840	—	—	333	—
Lubricating oil ..	34,267	34,667	27,846	15,672	9,663	4,426
Petroleum jelly ..	429	510	692	409	300	974
Paraffin wax ..	28,020	23,225	24,783	27,860	19,871	30,685
Natural asphalt ..	9	7	9	12	61	257
Ecuador—						
Motor spirit ..	10,733	<i>n.a.</i>	29,656	<i>n.a.</i>	15,000	<i>n.a.</i>
Lubricating oil and greases ..	5,470	5,218	6,434	9,995	6,580	<i>n.a.</i>
Petroleum jelly ..	76	90	106	103	113	<i>n.a.</i>
Paraffin wax ..	2,946	3,506	3,909	3,894	3,979	<i>n.a.</i>
Natural asphalt ..	213	1,723	8,643	2,021	9,309	<i>n.a.</i>
French Guiana—						
Motor spirit, etc. ..	2,856	2,891	4,036	4,236	4,653	4,923
Kerosine ..	1,086	577	1,107	655	955	948
Fuel oil, etc. ..	2,754	2,631	4,549	4,803	6,126	6,655
Lubricating oil ..	238	220	219	210	481	186
Paraguay—						
Motor spirit ..	36,000	39,000	40,000	41,000	41,000	<i>n.a.</i>
Kerosine ..	15,000	18,000	19,000	17,000	24,000	<i>n.a.</i>
Fuel oil, etc. ..	63,000	67,000	70,000	76,000	108,000	<i>n.a.</i>
Lubricating oil ..	2,400	2,500	3,200	2,500	4,200	<i>n.a.</i>
Peru—						
Aviation spirit ..	36,591	24,774	27,954	29,018	42,878	40,531
Motor spirit ..	3,212	17,984	44,382	74,149	133,044	239,505
Diesel oil and fuel oil ..	556,365	514,126	441,214	534,835	470,729	625,913
Lubricating oil ..	14,882	16,352	15,025	13,883	30,668	31,560
Petroleum jelly ..	185	122	228	197	283	332
Paraffin wax ..	6,910	8,719	9,749	10,259	12,168	11,295
Asphalt and bitumen ..	4,293	947	339	2,397	928	689
Greases ..	1,410	1,860	1,860	1,886	2,404	1,898
Ozokerite ..	18	23	28	22	46	104
Surinam—						
Motor spirit ..	<i>n.a.</i>	1,158	17,518	18,739	16,038	19,068
Kerosine ..	<i>n.a.</i>	5,431	5,352	5,310	5,534	5,771
Gas oil ..	<i>n.a.</i>	745	67,189	78,292	77,962	76,412
Diesel oil ..	<i>n.a.</i>	59,999				
Fuel oil ..	<i>n.a.</i>	73,526	74,189	97,119	147,216	229,307
Lubricating oil ..	<i>n.a.</i>	3,731	3,949	3,204	4,200	3,443
Asphalt ..	<i>n.a.</i>	2,997	529	1,250	1,452	1,301

(a) Including crude petroleum.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES (cont.)						
Uruguay—						
Crude petroleum ..	1,334,000	1,500,000	1,449,000	1,522,000	1,180,993	1,769,276
Motor spirit, etc. ..	38,000	5,000	6,000	7,000	18,805	2,185
Kerosine ..	—	11,000	—	15,000	n.a.	7,300
Gas oil ..	44,000	127,947	48,000	23,000	7,601	9,929
Diesel oil ..						
Fuel oil ..	39,000				36,968	99,921
Lubricating oil and greases ..	11,000	13,680	12,600	13,300	10,841	11,584
Paraffin wax ..	n.a.	n.a.	n.a.	n.a.	289	350
Venezuela—						
Motor spirit ..	18,124	12,086	3,088	16,075	3,630	4,393
White spirit ..	535	430	856	1,215	1,101	1,383
Gas and fuel oils ..	2	6	34	62	10	13
Lubricating oil and grease ..	24,298	19,808	8,278	8,059	5,528	3,890
Paraffin wax ..	2,756	4,325	5,761	9,128	5,034	2,906
Petroleum jelly ..	506	607	424	625	759	714
Asphalt ..	159	99	177	236	161	85
Bitumen, pitch, etc. ..	752	1,602	664	n.a.	1,517	1,081
Burma—						
Crude petroleum ..	n.a.	—	—	156,615	200,499	n.a.
Motor spirit ..	10,554	14,077	5,341	—	3	n.a.
Kerosine ..	8,410	15,576	12,515	—	—	n.a.
Gas and diesel oils ..	23,360	78,378	14,720	21,442	24,008	n.a.
Lubricating oil ..	18,880	14,676	6,368	15,230	13,709	n.a.
Grease ..	1,358	542	480	511	657	n.a.
Paraffin wax ..	1	—	—	—	2	n.a.
Petroleum jelly ..	851	984	461	234	443	n.a.
Asphalt ..	11,971	19,722	15,530	21,304	14,692	n.a.
Formosa—						
Crude petroleum ..	1,340,871	1,238,626	1,470,384	1,265,815	1,377,198	2,554,553
Motor spirit ..	1	—	—	4	—	6
Lubricating oil ..	15,343	24,678	17,961	23,490	25,388	27,967
Grease ..	535	1,067	372	1,316	1,469	1,585
Paraffin wax ..	1,519	1,847	1,836	1,965	2,291	3,427
Asphalt ..	2,007	3,653	2,731	3,961	3,561	5,295
Indonesia—						
Crude petroleum ..	2,108,305	1,372,260	n.a.	n.a.	n.a.	n.a.
Motor spirit ..	365,170	209,510	147,000	126,000	n.a.	n.a.
Kerosine, etc. ..	183,314	199,000	64,000	n.a.	n.a.	n.a.
Lubricating oil ..	63,913	80,930	65,000	70,000	n.a.	n.a.
Paraffin wax ..	679	n.a.	n.a.	n.a.	n.a.	n.a.
Petroleum jelly ..	1,067	n.a.	n.a.	n.a.	n.a.	n.a.
Asphalt ..	50,874	n.a.	n.a.	n.a.	n.a.	n.a.
Iran (a)—						
Lubricating oil ..	25,414	25,041	8,130	3,975	1,408	3,329
Paraffin wax ..	1,353	414	1,100	1,287	651	969
Petroleum jelly ..	275	615	414	327	753	434
Iraq—						
Lubricating oil ..	2,909	2,237	1,279	1,400	4,733	n.a.
Israel (b)—						
Lubricating oils ..	13,454	16,287	17,376	18,386	17,196	8,608
Paraffin wax ..	1,455	1,976	1,839	2,143	2,193	944
Petroleum jelly ..	109	112	295	117	169	176
Asphalt ..	340	179	156	204	128	256
Japan—						
Crude petroleum ..	33,344,140	39,451,896	51,075,352	64,806,881	75,548,739	89,189,290
Aviation spirit ..	65,649	80,217	69,302	37,982	36,093	14,891
Motor spirit ..	27,336	16,569	14,726	367,120	473,284	933,682
Kerosine ..	310	2,037	44,444	13,425	25,730	31,164
Aviation turbine fuel ..	82,647	75,794	62,465	14,410		
Gas oil ..	66,358	10,222	1,840	26,878	29,607	1,962

(a) Years ended March 20 of year following that stated.

(b) Figures include amounts obtained from imported crude petroleum.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Japan (cont.)—						
Fuel oil	8,213,673	8,942,941	9,910,848	11,147,377	13,022,633	11,269,248
Lubricating oil	220,527	282,365	330,415	431,289	282,986	340,463
Grease	3,050	3,334	69,760	7,124	2,502	2,758
Petroleum jelly	4,205	3,413	1,814	3,846	3,617	3,634
Paraffin wax	3,557	5,253	4,096	5,252	4,851	6,335
Gilsonite	3,861	3,925	3,589	3,882	3,214	2,800
Asphalt and pitch	134	74	66	327	337	—
Petroleum coke	489,945	410,281	582,629	875,447	945,625	1,080,842
Jordan—						
Crude petroleum	203,794	248,432	324,039	353,597	403,231	462,185
Motor spirit	5,456	1,758	1,182	5,109	9,850	5,550
Kerosine	19,813	16,333	16,005	10,787	22,790	19,450
Fuel oil, etc.	58,734	50,848	30,985	6,411	<i>n.a.</i>	<i>n.a.</i>
Lubricating oil	3,749	5,833	4,691	5,776	5,905	5,931
Natural asphalt	2,004	307	9,094	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Korea (South)—						
Crude petroleum	<i>n.a.</i>	9,644	14,100	396,349	709,378	1,325,472
Aviation spirit	1,495	1,457	9,003	1	1,000	3,206
Motor spirit	108,261	78,976	62,956	26	2,000	15,552
Kerosine, etc.	39,380	49,546	51,141	7	—	—
Gas, diesel and fuel oils	533,257	812,814	1,089,530	113,956	129,000	304,691
Lubricating oils	8,123	12,457	31,865	2,898	4,081	22,960
Greases	863	569	941	309	97	181
Petroleum jelly	129	220	268	174	260	142
Paraffin wax	9,470	7,826	6,983	2,655	4,594	2,867
Asphalt and pitch	19,274	35,010	63,960	28,279	39,089	<i>n.a.</i>
Laos—						
Aviation spirit	10,085	15,500	21,000	15,000	12,000	<i>n.a.</i>
Motor spirit	13,249	14,918	16,000	17,000	22,000	<i>n.a.</i>
Kerosine	2,315	2,540	4,000	3,000	5,000	<i>n.a.</i>
Gas oil	8,427	4,884	6,000	9,000	13,000	<i>n.a.</i>
Fuel oil	1,995	2,286	3,000	4,000	5,000	<i>n.a.</i>
Lubricating oil	1,115	980	1,000	3,000	2,000	<i>n.a.</i>
Lebanon—						
Crude petroleum	721,019	198,462	1,087,000	1,366,000	<i>n.a.</i>	<i>n.a.</i>
Motor spirit	187,835	198,462	202,814	230,974	265,613	296,610
Kerosine	128,945	131,456	46,271	47,065	41,406	44,178
Fuel oil	444,816	363,367	473,280	454,011	511,585	539,192
Lubricating oil	3,783	1,284	9,218	8,386	10,575	12,515
Paraffin wax	234	231	239	578	364	401
Natural asphalt	784	113	1,125	1,600	149	6
Philippine Republic—						
Crude petroleum	2,248,718	2,988,521	3,559,994	4,148,988	4,461,889	<i>n.a.</i>
Aviation spirit	18,902	17,621	20,248	29,359	26,902	<i>n.a.</i>
Motor spirit	153,981	86,142	15,825	6,950	32,500	<i>n.a.</i>
Kerosine	40,280	18,404	5,340	850	19,422	<i>n.a.</i>
Diesel oil	125,580	55,491	40,532	9,301	25,532	<i>n.a.</i>
Fuel oils	66,790	57,124	3,594	111	101	<i>n.a.</i>
Lubricating oils	60,626	41,934	56,423	83,859	78,863	<i>n.a.</i>
Grease	4,155	3,544	2,906	3,694	2,612	<i>n.a.</i>
Petroleum jelly	1,248	717	1,213	1,181	1,910	<i>n.a.</i>
Paraffin wax	5,389	6,329	7,336	7,286	7,910	<i>n.a.</i>
Asphalt	19,229	6,238	955	2,124	1,199	<i>n.a.</i>
Syria—						
Crude petroleum	744,337	773,252	866,569	998,843	1,001,359	1,038,142
Motor spirit	6,294	5,686	7,332	17,236	9,982	8,110
Kerosine	5,724	5,424	7,606	8,109	8,827	7,392
Fuel oil and diesel oil ..	110,415	620	<i>n.a.</i>	33,780	129,583	985,993
Lubricating oil	12,805	21,743	16,925	10,709	17,437	22,928
Natural asphalt	405	9,322	8,504	2,122	609	92
Thailand—						
Aviation spirit	7,666	35,033	27,508	45,696	36,162	73,297
Motor spirit	353,943	399,155	361,583	337,535	132,053	120,960

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966		
OTHER COUNTRIES								
<i>(cont.)</i>								
Thailand <i>(cont.)</i> —								
Kerosine	103,756	100,179	128,123	223,642	382,604	1,271,115		
Gas, diesel and fuel oils	681,050	812,819	990,294	1,009,916	645,040	644,794		
Lubricating oil	30,471	47,896	39,540	52,411	58,768	75,326		
Grease	1,537	2,588	2,917	3,028	2,986	3,952		
Paraffin wax	1,714	2,943	2,057	3,123	1,942	4,229		
Petroleum jelly	552	648	796	757	1,090	1,139		
Asphalt	43,345	50,714	44,842	42,202	9,642	1,047		
Turkey—								
Crude petroleum	162,911	1,990,006	3,032,060	3,375,961	3,003,288	2,763,059		
Motor spirit	337,164	182,354	4,879	2,530	4,599	1,482		
Kerosine	290,749	291,743	37,893	26,518	33,230	22,331		
Gas and diesel oils	499,049	455,174	7	—	1	57,633		
Fuel oil	70,847	57,314	100	—	—	10,931		
Lubricating oils and grease	48,241	62,348	90,317	59,737	50,844	83,712		
Paraffin wax	1,057	1,860	1,741	1,420	2,124	2,572		
Petroleum jelly	258	20	163	201	304	496		
Asphalt	1,002	14	14	1	2	18		
Vietnam (South)—								
Aviation spirit	527	1,822	137,100	121	83	<i>n.a.</i>		
Motor spirit	149,678	125,266				124,154	158,222	<i>n.a.</i>
Kerosine	59,817	65,555	79,000	72,845	92,271			<i>n.a.</i>
Gas oil	71,368	85,469	354,700	80,612	88,832	<i>n.a.</i>		
Fuel oils	256,839	230,314				293,542	384,842	<i>n.a.</i>
Lubricating oils and grease	13,346	16,422	20,728	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>		
Petroleum jelly	153	100	120	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>		
Paraffin wax	5,381	2,390	3,771	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>		
French Polynesia—								
Motor spirit, etc.	6,022	5,744	25,464	10,044	16,743	22,839		
Kerosine	2,805	2,958				3,783	4,156	9,713
Other oils	13,565	9,471				19,897	45,337	49,829
New Caledonia—								
Motor spirit, etc.	16,528	16,843	16,690	18,923	21,095	21,695		
Kerosine	3,725	3,670	3,789	3,542	4,438	3,737		
Gas and fuel oils	66,709	49,463	47,549	16,971	133,798	193,671		
Lubricating oil, etc.	31,345	17,324	64,243	11,669	8,226	2,226		

PHOSPHATES
(Including Apatite)

PRODUCTION OF PHOSPHATE-ROCK

Producing Country	Estimated Tribasic Phosphate of Lime Content or equivalent						Long tons
	1961	1962	1963	1964	1965	1966	
COMMONWEALTH COUNTRIES							
Kenya ..	—	—	—	—	—	—	70
Rhodesia (d) ..	446	—	—	1,964	—	—	n.a.
Seychelles (a) (b) ..	7,455	5,338	6,965	3,787	n.a.	1,300	4,000
Tanzania (c) ..	—	19	—	—	n.a.	2,000	2,000
Uganda (d) ..	395	1,105	6,959	9,393	16,123	r 6,100	n.a.
Jamaica (c) ..	32	22	—	—	—	r 8,500	14,000
Christmas Island (b) (g) ..	694,210	520,750	651,461	774,801	739,568	554,000	808,000
India (d) ..	19,822	28,560	12,920	3,985	6,964	5,000	6,000
Australia—							
Phosphate rock ..	4,759	4,317	4,909	5,689	4,504	2,000	2,500
Guano ..	115	68	16	—	15	10	—
Nauru Island (b) ..	1,436,032	1,525,650	1,547,242	1,820,066	1,456,535	1,312,000	1,724,000
Ocean Island (b) ..	337,533	256,650	356,128	322,848	359,322	221,000	322,000
TOTAL ..	2,501,000	2,343,000	2,587,000	2,943,000	2,591,000	2,900,000	3,372,000
OTHER COUNTRIES							
Belgium (e) ..	13,795	12,285	13,416	21,707	(h) 20,000	2,000	4,000
France (e) ..	65,000	66,000	50,000	42,000	34,000	15,000	7,500
Poland ..	46,000	55,000	64,000	88,000	92,000	n.a.	n.a.
U.S.S.R. (f)—							
Apatite ..	5,510,000	r 10,050,000	r 11,130,000	r 15,690,000	18,500,000	4,820,000	16,170,000
Phosphate rock ..	3,150,000	r 7,870,000	r 8,370,000	r 8,660,000	8,660,000	2,080,000	5,850,000
Algeria ..	432,666	383,709	342,642	r 71,726	84,813	290,000	57,000
Egypt ..	616,635	592,243	602,403	603,552	584,322	380,000	360,000
Morocco ..	7,824,147	8,033,053	8,413,403	9,938,045	9,669,209	5,767,000	7,110,000

(a) Phosphate guano.
(b) Exports.
(c) Bat guano.

(d) Apatite.
(e) Including phosphatic chalk.
(f) United States Bureau of Mines' estimate.

(g) In addition, the following amounts of phosphate dust were exported (long tons): 1961—76,438; 1962—79,527; 1963—80,552; 1964—72,416; 1965—90,033; 1966—89,453.
(h) Estimated.

PRODUCTION OF PHOSPHATE ROCK (cont.)

Long tons

Producing Country	1961	1962	1963	1964	1965	1966	Estimated Tribasic Phosphate of Lime Content or equivalent				1966	
							1961	1962	1963	1964		1965	1966
OTHER COUNTRIES (cont.)												
Senegal—												
Phosphate rock ..	400,541	489,239	457,599	666,387	889,106	974,000	333,000	406,000	380,000	553,000	738,000	808,000
Aluminium phosphates ..	137,179	139,192	123,827	119,029	132,809	142,494	86,000	88,000	78,000	75,000	84,000	90,000
South Africa—												
Phosphate rock (h) ..	291,904	302,312	447,729	569,754	600,142	1,046,539	173,000	184,000	264,000	394,000	434,000	566,000
Guano ..	4,687	4,700	2,552	4,279	3,307	3,303	1,100	1,100	600	1,000	800	800
South West Africa (f) ..	922	574	1,354	412	1,384	1,804	200	100	300	100	300	400
Togoland ..	116,035	188,677	509,700	755,400	958,268	1,134,000	92,000	153,000	411,000	611,000	776,000	919,000
Tunisia ..	1,951,000	2,064,000	2,333,281	2,707,492	2,991,826	3,165,407	1,268,000	1,342,000	1,517,000	1,760,000	1,945,000	2,058,000
Mexico ..	29,174	(a) 30,000	(a) 30,000	27,454	(a) 28,000	(a) 28,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Netherlands Antilles (b) ..	149,596	129,474	126,254	117,666	113,075	145,140	109,000	95,000	92,000	86,000	83,000	106,000
United States (e) ..	18,559,000	19,382,000	19,855,000	22,960,000	26,282,000	34,866,000	12,681,000	13,118,000	13,592,000	15,797,000	17,815,000	23,628,000
Argentina (f) ..	158	179	798	177	118	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Brazil—												
Apatite ..	240,056	305,219	211,888	191,996	188,806	290,552	139,000	177,000	147,000	133,000	131,000	202,000
Phosphate rock ..	408,951	251,406	62,503	50,334	85,535	81,837	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Chile—												
Apatite ..	13,734	12,295	13,689	12,931	10,111	—	8,000	7,000	8,000	8,000	6,000	—
Guano ..	19,000	16,000	22,000	15,000	21,000	15,000	7,000	6,000	9,000	6,000	8,000	6,000
Peru (f) ..	157,000	203,000	189,000	201,860	167,214	54,000	40,000	50,000	50,000	50,000	40,000	14,000
China (a) (d) ..	500,000	600,000	700,000	800,000	900,000	1,000,000	350,000	450,000	500,000	600,000	700,000	750,000
Indonesia (g) ..	9,000	6,000	30,000	(c) 30,000	(c) 30,000	(a) 30,000	4,000	3,000	13,000	13,000	13,000	13,000
Israel ..	217,000	207,000	295,000	236,000	382,000	a 394,000	137,000	130,000	190,000	155,000	250,000	260,000
Jordan ..	415,839	670,254	604,732	555,539	814,865	1,019,576	304,000	489,000	441,000	406,000	595,000	744,000
Philippine Republic—												
Phosphate rock ..	—	3,713	1,049	2,812	10	98	—	n.a.	n.a.	n.a.	n.a.	n.a.
Guano ..	396	93	1,450	1,172	4,106	526	95	20	350	280	1,000	130
Vietnam (North) (d) ..	555,000	667,000	910,000	a 980,000	a 980,000	a 980,000	480,000	580,000	790,000	850,000	850,000	850,000
French Polynesia (Makatea) ..	374,679	312,081	330,150	382,292	303,364	174,188	307,000	256,000	271,000	313,000	249,000	143,000
TOTAL ..	42,000,000	45,000,000	45,000,000	46,000,000	47,000,000	84,000,000	88,000,000	88,000,000	88,000,000	88,000,000	88,000,000	88,000,000
WORLD'S TOTAL ..	45,000,000	45,000,000	45,000,000	46,000,000	47,000,000	84,000,000	88,000,000	88,000,000	88,000,000	88,000,000	88,000,000	88,000,000

Phosphate rock is also known to have been produced in Venezuela, North Korea and North Vietnam. Guano is known to have been produced in Sarawak and the Somali Republic.

(a) United States Bureau of Mines' estimate. (b) Exports. (c) Estimated. (d) Apatite. (e) Marketable production. (f) Phosphatic guano. (g) Source: International Superphosphate Manufacturers' Association. (h) Including apatite and aluminium phosphate.

PRODUCTION OF SUPERPHOSPHATES

Long tons

Producing Country	1961	1962	1963	1964	1965	1966	Estimated P ₂ O ₅ Content				1966		
							1961	1962	1963	1964		1965	1966
COMMONWEALTH COUNTRIES													
United Kingdom—													
Single	654,224	609,776	516,477	505,687	437,989	379,829	130,800	122,000	103,300	101,100	87,600	76,000	
Concentrated*	172,139	179,452	70,500	73,688	85,733	95,400	72,200	79,000	31,000	32,400	37,800	42,000	
Uganda—													
Single	—	163	7,173	12,209	23,849	24,220	—	40	1,600	2,700	5,200	5,300	
Canada*—													
Single	285,100	292,000	297,400	266,300	298,900	c 350,000	57,000	58,400	62,800	53,100	59,700	70,000	
Concentrated (c)	n.a.	n.a.	150,000	160,000	160,000	n.a.	n.a.	n.a.	70,000	70,000	70,000	n.a.	
India—													
Single	366,000	437,898	573,000	c 700,000	c 680,000	c 700,000	61,100	74,200	95,100	116,100	113,000	116,200	
Pakistan (a)—													
Single	8,048	7,842	6,651	7,160	8,940	5,780	1,400	1,400	1,200	1,300	1,600	1,000	
Australia—													
Single	2,540,544	2,778,337	3,055,988	(e) 3,667,501	(e) 3,725,436	(e) 4,356,000	{ 558,900	611,200	672,300	806,900	819,600	958,300	
Concentrated (d)	—	—	—	—	—	—	—	—	—	—	—	—	
New Zealand—													
Single (b)	1,050,000	1,000,000	1,204,000	1,455,000	1,585,000	1,611,000	210,000	200,000	241,000	291,000	317,000	322,000	
TOTAL .. .. .	..	..	..	..	..	..	1,090,000	1,146,000	r1,278,000	r1,475,000	1,512,000	1,660,000
Irish Republic*—													
Single	211,432	216,700	258,900	318,000	326,400	279,000	39,700	40,100	47,800	r 57,700	59,700	51,100	
Concentrated	22,858	(c)20,600	28,000	29,700	34,338	48,600	9,900	9,000	12,000	12,900	15,200	21,300	
OTHER COUNTRIES													
Austria*—													
Single	183,998	243,691	256,300	282,300	212,400	204,600	33,100	43,900	46,100	50,700	38,200	36,800	
Belgium*—													
Single	191,216	209,400	219,000	250,500	259,900	171,900	34,300	38,100	39,400	45,300	45,900	30,900	
Concentrated (c)	65,000	69,600	120,000	130,000	120,000	120,000	28,000	31,000	53,000	57,000	54,000	54,000	
Bulgaria—													
Single	c 300,000	c 380,000	c 390,000	c 490,000	c 510,000	n.a.	54,883	68,540	69,456	88,864	92,193	n.a.	
Czechoslovakia—													
Single	618,000	695,000	804,000	1,082,000	1,187,000	1,257,000	111,325	125,168	144,807	194,672	213,644	226,211	

*Source: International Superphosphate Manufacturers' Association.

(a) West Pakistan. (b) Superphosphate content of all fertilizers made. (c) Estimated.

(d) Calculated as single superphosphate. (e) Including ammonium phosphate calculated as single superphosphate.

PRODUCTION OF SUPERPHOSPHATES (cont.)

Long tons

Producing Country	1961	1962	1963	1964	1965	1966	Estimated P ₂ O ₅ Content					
							1961	1962	1963	1964	1965	1966
OTHER COUNTRIES (cont.)												
Denmark*—	r 440,000	r 478,000	r 449,300	r 461,000	475,200	450,300	79,200	86,100	80,900	83,000	85,500	81,100
Single (a)	22,474	8,108	28,300	34,000	37,600	24,600	7,200	2,600	9,100	10,900	12,000	7,900
Enriched												
Finland*—	210,600	224,116	321,690	371,882	312,900	447,800	40,000	42,600	61,100	70,700	59,500	85,100
Single	138,012	111,556	122,590	138,515	119,000	84,123	26,200	21,200	28,200	26,300	27,400	16,000
Kotka-phosphate												
France*—	1,286,826	1,437,116	1,417,400	1,478,052	1,579,400	1,456,700	231,000	259,400	260,200	277,300	301,700	279,700
Single	56,085	67,083	85,109	143,800	185,543	224,600	23,300	28,200	35,200	61,100	83,900	101,100
Concentrated												
Germany (Federal)*—	288,549	276,450	283,300	360,072	419,900	369,600	52,500	51,100	52,600	67,200	80,000	66,500
Single												
Germany (East)—	596,000	608,000	674,000	673,000	829,000	856,000	107,200	109,500	121,300	121,100	149,300	154,000
Single												
Greece*—	165,737	151,400	197,800	220,634	184,100	147,300	29,000	28,200	37,500	41,900	35,000	28,000
Single												
Hungary—	322,204	417,651	504,722	530,693	605,711	700,000	53,800	71,200	85,800	97,000	114,000	128,000
Single												
Italy—	1,463,000	1,353,000	1,433,000	1,236,000	1,366,363	1,645,066	299,000	276,000	281,000	245,000	260,000	310,000
Single	44,000	40,000	19,000	23,000								
Concentrated												
Netherlands*—	499,039	350,519	373,000	451,013	325,500	259,900	90,100	63,600	67,700	83,500	59,800	48,600
Single	117,523	119,982	122,900	155,300	148,340	163,500	49,400	48,000	52,000	69,000	64,200	73,600
Concentrated												
Norway—	62,000	38,823	41,200*	40,500*	37,966*	15,000*	11,500	7,000	7,500	7,200	6,800	2,700
Single (c)	25,650	26,054	30,475	29,674	24,000	22,400	r 8300	r 8400	r 9300	r 8900	r 7000	r 6900
Enriched*(d)												
Poland (b)—	810,000	979,000	994,000	1,230,000	1,358,000	1,462,000	134,000	162,000	164,000	203,000	224,000	241,000
Single												
Portugal—	448,197	413,582	435,384	424,524	423,031	401,458	81,000	74,000	78,000	76,000	76,000	72,000
Single												
Concentrated (e)												

*Source: International Superphosphate Manufacturers' Association.

(a) The majority of this material was used to make potash superphosphate, production of which was as follows (long tons): 1961—634,353; 1962—765,986; 1963—725,865; 1964—703,092; 1965—743,637; 1966—n.a.

(b) The following amounts of "Supertomasyna" were produced (long tons): 1961—247,000; 1962—256,000; 1963—269,000; 1964—284,000; 1965—296,000; 1966—301,000.

(c) The majority of this material was used to make potash superphosphate, production of which was as follows (long tons): 1961—n.a.; 1962—n.a.; 1963—n.a.; 1964—39,616; 1965—31,562; 1966—n.a.

(d) Including concentrated superphosphate.

(e) Calculated as single superphosphate.

PRODUCTION OF SUPERPHOSPHATES (cont.)

Producing Country	Estimated P ₂ O ₅ Content						Long tons	
	1961	1962	1963	1964	1965	1966	1965	1966
OTHER COUNTRIES (cont.)								
Roumania—								
Single	350,000	530,000	610,000	690,000	780,000	960,000	56,000	85,000
Spain (a)—								
Single	1,810,000	1,823,000	1,980,000	1,880,000	2,000,000	1,700,000	293,200	295,400
Sweden*								
Single (b)	469,673	455,338	391,390	r 417,400	401,300	324,900	91,600	88,800
Enriched	19,251	21,596	35,750	39,024	47,100	34,900	5,600	6,300
Switzerland*—								
Single	16,000	24,000	r 12,000	r 13,000	9,500	9,200	3,000	4,000
Concentrated	—	—	—	—	—	—	—	—
U.S.S.R.								
Single	6,699,000	6,924,000	7,734,000	10,508,000	12,047,000	n.a.	1,270,000	1,320,000
Concentrated	—	—	—	—	—	—	—	—
Yugoslavia—								
Single	405,997	512,000	720,000	953,000	788,000	n.a.	77,000	97,000
Concentrated	—	—	—	—	—	—	—	—
Algeria—								
Single	54,372	46,200	53,300	87,000	94,000	n.a.	8,700	7,400
Egypt—								
Single	175,108	161,100	160,978	206,114	247,643	272,547	26,300	24,200
Morocco*—								
Single	88,000	93,000	r 96,500	r 97,300	(c) 110,000	88,300	15,000	16,200
South Africa*—								
Single	633,157	750,900	837,120	954,300	750,000	n.a.	120,300	142,000
Tunisia—								
Single	24,100	26,500	47,400*	48,000*	78,500*	84,500*	4,000	4,000
Concentrated	133,000	144,000	136,000	150,000	155,000	n.a.	57,000	62,000
Cuba*—								
Single	(c) 40,000	47,800	r 38,300	52,100	52,000	(c) 60,000	7,000	8,600
Mexico—								
Single	102,388	107,700	n.a.	121,290	129,792	159,777	18,400	19,400
Concentrated	—	23,485	n.a.	41,259	32,663	47,053	—	9,400
Salvador—								
Single	—	—	—	7,701	6,124	12,353	—	—
United States*—								
Single	6,201,851	6,017,100	6,084,800	5,980,100	5,533,900	5,637,600	1,116,000	1,083,100
Concentrated	2,073,661	1,835,704	2,207,960	2,680,200	3,205,324	3,334,500	933,100	826,100

*Source: International Superphosphate Manufacturers' Association.

(a) Including Canary Islands.

(c) Estimated.

(b) The majority of this material was used to make potash superphosphate, production of which was as follows (long tons): 1961—404,984; 1962—449,551; 1963—455,448; 1964—479,478; 1965—478,034; 1966—n.a.

PRODUCTION OF SUPERPHOSPHATES (cont.)

Long tons

Producing Country	Estimated P ₂ O ₅ Content					
	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES (cont.)						
Brazil—						
Single	219,745	252,288	330,841	345,833	300,459	311,485
Colombia—						
Single	n.a.	n.a.	n.a.	n.a.	5,000*	n.a.
Peru—						
Single	(a) 24,000	27,600	33,400	34,900	35,000	(a) 35,000
Uruguay*—						
Single	(a) 28,000	(a) 26,000	27,400	29,500	34,000	(a) 35,000
Venezuela*—						
Single	n.a.	(a) 10,000	n.a.	n.a.	n.a.	n.a.
Formosa—						
Single	127,947	141,444	169,441	181,931	192,757	208,652
Israel*						
Single	79,224	79,559	62,800	56,300	54,200	55,800
Concentrated (b)	1,709	1,111	n.a.	—	5,800	4,900
Japan*						
Single	1,817,864	1,788,700	1,636,300	1,634,100	1,525,400	1,268,400
Concentrated (b)	9,333	14,667	23,300	49,300	63,580	77,200
Jordan—						
Single	248	516	663	1,827	2,654	2,169
Lebanon*—						
Single	(a) 18,000	31,100	34,990	47,000	75,400	51,200
Philippine Republic*—						
Single	2,000	2,000	2,000	3,400	6,000	3,800
Turkey—						
Single	20,860	28,000	172,000	149,137	217,800	218,600
TOTAL						
	6,100,000	6,200,000	6,800,000	7,900,000	8,400,000	8,500,000
WORLD'S TOTAL	7,200,000	7,300,000	8,100,000	9,400,000	9,900,000	10,200,000

Single and concentrated superphosphates are also produced in Rhodesia but figures are not available for publication. Concentrated superphosphate is also produced in Australia, Germany (Federal) and Spain.

*Source : International Superphosphate Manufacturers' Association.

(a) Estimated.

(b) May include enriched superphosphate.

PRODUCTION OF BASIC SLAG

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom ..	(a) 731,439	(a) 940,617	(a) 812,549	(b) 920,322	(b) 638,875	(b) 655,700
OTHER COUNTRIES						
Belgium (a) (c) ..	1,127,000	1,210,000	1,184,000	1,135,000	1,314,000	n.a.
Czechoslovakia (c) ..	165,000	150,000	147,000	149,000	n.a.	n.a.
France	2,376,508	2,337,246	2,314,115	2,533,159	2,505,966	2,519,475
Germany (Federal) ..	3,436,000	3,170,000	3,006,000	3,186,000	2,933,000	2,742,000
Germany (East) (c) ..	108,000	115,000	112,000	118,000	119,000	112,000
Italy	115,506	123,272	110,082	86,361	17,667	—
Luxemburg	782,995	773,923	755,297	805,427	823,502	764,561
Poland (c)	409,000	427,000	444,000	467,000	n.a.	n.a.
Sweden	35,574	33,691	29,363	49,729	41,089	n.a.
Egypt	18,300	26,202	19,723	29,014	31,309	27,527
United States (a) (c) ..	—	40,000	30,000	—	—	n.a.
Colombia (a) (c) ..	n.a.	n.a.	n.a.	35,000	35,000	n.a.

Basic slag has also been produced in the U.S.S.R., South Africa and Japan.

(a) Years ended June 30 of that stated.

(b) Years ended May 31 of year following that stated.

(c) Estimated.

EXPORTS OF PHOSPHATES, ETC.

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Phosphatic fertilizers ..	9,871	9,280	839	2,769	19,372	44,193
Seychelles—						
Phosphatic guano ..	7,455	5,338	6,965	3,787	5,904	3,805
Uganda—						
Phosphate-rock ..	453	584	464	365	193	—
Canada—						
Phosphatic fertilizers ..	(£6,933,905)	(£6,475,384)	(£4,329,440)	(£3,403,812)	(£6,453,415)	(£7,558,541)
Christmas Island—						
Phosphate-rock ..	694,210	520,750	651,461	774,801	739,568	950,517
Phosphate dust ..	76,438	79,527	80,552	72,416	90,033	89,453
Malaysia (West)—						
Natural phosphates ..	n.a.	n.a.	n.a.	n.a.	56	39
Australia (a)—						
Superphosphates ..	36	16	—	—	—	—
New Zealand—						
Superphosphates ..	37	110	(a) 172	(a) 250	(a) 196	(a) 428
Nauru Island—						
Phosphate-rock ..	1,436,032	1,525,650	1,547,242	1,820,066	1,456,535	2,004,592
Ocean Island—						
Phosphate-rock ..	337,533	256,650	356,128	322,848	359,322	374,030
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Phosphate-rock ..	9,863	20,197	25,056	28,629	30,710	30,410
Superphosphates—						
Single ..	107,832	148,388	} 211,812	277,817	216,478	(b) 48,774
Concentrated ..	65,694	69,485				(b) 268,653
Basic slag ..	1,218,800	1,558,412	1,717,465	1,768,548	1,843,036	
France—						
Phosphate-rock ..	3,508	1,209	2,549	2,329	14,293	1,638
Superphosphates ..	49,318	31,927	38,290	49,705	38,017	28,264
Basic slag ..	283,407	294,591	298,105	337,678	331,999	337,142
Di-calcium phosphates	805	595	465	267	277	9,440
Germany (Federal)—						
Phosphate-rock ..	29,687	33,013	35,653	42,555	34,077	41,840
Superphosphates ..	17,921	14,941	14,489	18,411	21,656	31,800
Basic slag ..	357,866	360,459	401,772	348,782	281,959	220,510
Other phosphatic fertilizers ..	23,017	21,465	9,252	1,759	3,808	3,137
Hungary—						
Superphosphates ..	6,289	31,586	15,957	n.a.	n.a.	n.a.
Italy—						
Superphosphates ..	96,820	68,480	47,705	31,417	1,794	2,230
Netherlands—						
Phosphate-rock ..	5,056	3,596	3,450	1,303	961	548
Superphosphates ..	421,792	364,472	370,075	457,518	371,682	106,020
Basic slag ..	n.a.	—	39	187	7,671	757
Norway—						
Superphosphates ..	30,706	25,949	23,749	18,070	23,952	6,206
Portugal—						
Superphosphates ..	82,042	55,328	91,412	78,795	43,401	63,895
Spain—						
Superphosphates, etc. ..	76,269	59,682	32,342	123,814	56,683	62,980
Di-calcium phosphates	984	10,671	3,809	3,100	7,172	2,418
Sweden—						
Phosphate-rock ..	—	—	628	—	—	—
Di-calcium phosphates	808	1,333	7,330	13,479	18,127	16,426
Basic slag ..	5,345	8,020	6,712	22,166	20,031	20,190

(a) Years ended June 30 of that stated.

(b) P₂O₅ content.

EXPORTS OF PHOSPHATES, ETC. (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
U.S.S.R.—						
Apatite ore ..	164,200	140,600	80,100	63,900	80,000	77,600
do. concentrates ..	2,020,900	2,206,700	2,187,000	2,942,300	3,437,900	4,212,900
Superphosphates ..	334,900	316,600	290,400	223,300	192,100	280,300
Yugoslavia—						
Superphosphates ..	75,943	59,161	—	87,571	210,771	348,287
Algeria—						
Phosphate-rock ..	373,200	400,558	320,556	—	56,115	12,578
Egypt—						
Phosphate-rock ..	414,458	r 177,238	413,556	322,561	367,597	365,000
Morocco—						
Phosphate-rock ..	r 7,502,117	7,999,454	8,386,884	9,916,687	9,397,397	8,990,000
Hyperphosphates ..	5,636	3,723	5,040	4,309	1,237	n.a.
Superphosphates ..	17,918	1	6,102	32,359	261	n.a.
Senegal—						
Phosphate-rock ..	303,686	344,847	r 340,788	623,199	755,021	704,132
Aluminium phosphates	88,842	84,671	r 48,604	86,845	98,322	94,135
Phosphate fertilizers ..	18,681	32,292	13,364	22,687	3,977	21,468
South Africa—						
Phosphate rock ..	n.a.	n.a.	n.a.	11,266	12,400	458
Super-phosphates ..	3,296	1,746	3,731	5,274	5,523	2,116
Other phosphatic fertilizers ..	n.a.	n.a.	n.a.			
South West Africa—						
Phosphatic guano ..	—	237	n.a.	—	909	1,124
Togoland—						
Phosphate-rock ..	56,259	r 181,806	434,462	788,808	799,790	953,433
Tunisia—						
Phosphate-rock ..	1,601,311	1,804,707	r 1,934,528	2,179,736	2,225,031	2,347,200
Hyperphosphates ..	63,432	35,780	72,448	109,052	113,924	69,000
Superphosphates ..	154,211	113,271	144,891	122,850	253,044	166,500
Mexico—						
Phosphate-rock ..	23,960	27,289	23,590	27,455	30,824	36,468
Netherlands Antilles—						
Phosphate-rock ..	149,596	129,474	126,254	117,666	113,075	145,140
United States—						
Phosphate-rock ..	r 4,122,732	r 4,242,057	r 4,624,912	r 5,652,573	6,653,602	8,231,541
Superphosphates—						
Single ..	131,927	115,928	601,887	172,215	528,161	78,832
Concentrated ..	337,271	442,260					535,728	570,558
Venezuela—						
Superphosphates ..	6,810	20,038	23,501	55,133	n.a.	n.a.
French Polynesia (Makatea)—						
Phosphate-rock ..	362,960	321,574	316,173	368,208	325,000	196,953
Israel—						
Phosphate-rock ..	92,236	64,385	145,288	r 178,124	303,230	416,807
Japan—						
Phosphate-rock ..	4,698	11,815	11,128	701	121	898
Superphosphates ..	29,971	64,898	33,716	159,789	164,375	15,899
Thermal phosphates ..	37,620	117,582	41,212	35,914	9,444	17,131
Other phosphatic fertilizers ..	18,485	5,546	8,892	7,954	17,126	3,602
Jordan—						
Phosphate-rock ..	376,763	352,685	351,497	617,170	595,098	743,109
Lebanon—						
Superphosphates ..	11,215	n.a.	13,362	12,874	10,173	14,159

IMPORTS OF PHOSPHATES, ETC.

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Phosphate-rock ..	1,355,649	1,399,288	1,413,829	1,485,010	1,667,262	1,638,486
Superphosphates ..	28,390	25,520	25,738	16,069	11,478	2,666
Basic slag ..	71,411	76,837	96,821	76,343	46,217	42,240
Ammonium phosphate ..	17,912	14,820	10,904	11,557	3,429	3,222
Ghana—						
Superphosphates ..	66	47	118	50	1,640	1
Other phosphatic fertilizers ..	459	1,595	1,039	192	2,477	1
Kenya—						
Superphosphates ..	11,163	10,390	12,079	12,125	11,400	18,976
Other phosphatic fertilizers ..	1,382	1,276	1,893	45	122	1,591
Mauritius—						
Phosphatic guano ..	10,521	7,494	8,928	7,295	11,460	5,780
Phosphatic fertilizers ..	5,496	7,016	7,910	7,093	5,689	1,378
Nigeria—						
Phosphate-rock ..	47	11	8,269	13,022	10,492	16,023
Superphosphates ..	159	3,199				
Other phosphatic fertilizers ..	1,807	8,628				
Rhodesia (a)—						
Phosphate-rock ..	66,236	66,504	84,816	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Superphosphates ..	21,188	20,203	27,491	5,735	2,379	<i>n.a.</i>
Other phosphatic fertilizers ..	529	3,991	1,744	5,998	10,255	<i>n.a.</i>
Sierra Leone—						
Superphosphates ..	—	1	374	6	50	556
Other phosphatic fertilizers ..	467	10	566	200	675	1,449
Tanzania—						
Superphosphates ..	1,135	570	630	845	1,129	906
Other phosphatic fertilizers ..	8	33	15	13	60	4
Uganda—						
Superphosphates ..	1,185	1,402	647	1,489	1,654	974
Other phosphatic fertilizers ..	1	310	2	2	15	2
Zambia—						
Phosphatic fertilizers ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	922	1,822	1,767
Canada—						
Phosphate-rock ..	943,647	1,032,113	1,158,417	1,272,842	1,513,657	1,947,626
Superphosphates, triple do. other ..	60,210	49,548	37,452	100,527	80,603	63,114
Basic slag ..	111,218	98,043	74,944	56,481	47,249	40,569
Other phosphatic fertilizers ..	491	268	—	—	—	—
Other phosphatic fertilizers ..	6,008	19,232	33,051	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Antigua—						
Phosphatic fertilizers ..	3	52	—	1,051	203	14
Barbados—						
Phosphatic fertilizers ..	10	34	50	35	36	58
Grenada—						
Superphosphates ..	310	635	33	20	423	381
Other phosphatic fertilizers ..	<i>n.a.</i>	90	368	46	705	910
Jamaica—						
Phosphatic fertilizers ..	812	1,568	2,075	3,546	3,313	2,327
St. Kitts—						
Phosphatic fertilizers ..	304	174	188	310	221	145
St. Lucia—						
Phosphatic fertilizers ..	83	1,280	7	150	175	58

(a) Figures for years 1961 to 1963 relate to Rhodesia and Nyasaland.

IMPORTS OF PHOSPHATES, ETC. (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES (cont.)						
St. Vincent—						
Superphosphates ..	24	—	—	285	210	78
Trinidad and Tobago—						
Superphosphates ..	1,287	1,029	299	130	n.a.	n.a.
Guyana—						
Superphosphates ..	1,711	555	n.a.	1,229	160	315
Basic slag ..	1,138	5	n.a.	5	3	—
Other phosphatic fertilizers ..	3,169	456	n.a.	1,400	3,146	2,340
Ceylon—						
Phosphate-rock ..	57,704	52,275	72,174	64,898	39,602	40,002
Superphosphates ..	847	1,452	1,193	2,128	1,115	582
Basic slag ..	40	26	25	20	56	—
Other phosphatic fertilizers ..	349	15	20	10	10,970	5,432
Cyprus—						
Superphosphates ..	37,421	32,403	33,305	31,261	31,853	25,738
Basic slag, etc. ..	683	198	27	—	975	10
Hong Kong—						
Phosphatic fertilizers ..	213	81	85	50	71	8
India (b)—						
Phosphate-rock ..	249,956	301,065	331,458	419,577	556,760	845,528
Other natural phosphates ..	1,963	63	4	—	8	—
Superphosphates ..	737	2,213	534	136	6,917	50
Ammonium phosphate ..	8	9,846	23,581	35,632	46,636	128,902
Malaysia (West)—						
Natural phosphates ..	n.a.	n.a.	n.a.	n.a.	88,652	111,066
Phosphatic fertilizers ..	n.a.	n.a.	n.a.	n.a.	7,174	6,471
Sabah—						
Natural phosphates ..	n.a.	n.a.	904	238	1,203	579
Superphosphates ..	81	—	10	n.a.	n.a.	n.a.
Other phosphatic fertilizers ..	44	1,279	n.a.	1,251	742	185
Sarawak—						
Natural phosphates ..	19	797	1,511	5,560	5,886	2,610
Phosphatic fertilizers ..	5,146	5,018	6,999	849	947	1,945
Australia (a)—						
Phosphate-rock ..	1,723,518	1,835,070	1,694,916	1,989,413	2,517,313	2,795,056
Superphosphates ..	96	126	95	—	—	—
Calcium phosphate ..	n.a.	652	606	666	1,073	1,311
Other phosphatic fertilizers ..	n.a.	n.a.	n.a.	n.a.	n.a.	266
Fiji—						
Phosphatic fertilizers ..	n.a.	n.a.	3,870	5,210	4,157	3,448
New Zealand—						
Phosphate-rock ..	597,568	580,620	645,756	(a) 722,871	(a) 932,789	a1,026,480
Phosphatic guano ..	—	5,324	n.a.	(a) 3,455	(a) —	n.a.
Superphosphates ..	54	49	(a) 82	(a) 99	(a) 28	(a) 66
Basic slag ..	31,516	21,522	21,341	(a) 23,876	(a) 20,050	(a) 11,848
Other phosphates ..	4,750	4,849	7,697	(a) 1,723	(a) 2,959	(a) 2,928
Irish Republic—						
Phosphate-rock ..	221,938	221,806	226,935	235,691	239,813	255,149
Superphosphates ..	14,031	2,358	4,744	8,090	15,026	5,952
Basic slag ..	65,655	121,378	121,527	155,579	150,237	88,677
Di-calcium phosphate ..	(c)	(c)	(c)	365	1,155	2,279
Other phosphatic fertilizers ..	13,637	16,179	24,328	24,548	16,298	2,839

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

(c) Included, if any, with "other phosphatic fertilizers".

IMPORTS OF PHOSPHATES, ETC. (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
Austria—						
Phosphate-rock .. r	151,960	190,273	195,017	265,880	228,513	260,544
Superphosphates (b) ..	26,902	11,750	9,750	10,327	14,180	6,115
Basic slag ..	264,049	269,146	316,404	344,641	331,859	320,734
Belgium-Luxemburg						
E.U.—						
Phosphate-rock ..	886,094	865,992	993,935	1,160,803	1,265,999	1,180,569
Superphosphates ..	1,254	6,307	304	1,616	382	(b) 873
Basic slag ..	44	4	5	23	22	(b) 3
Bulgaria—						
Phosphate rock ..	n.a.	220,900	299,000	505,300	497,800	n.a.
Czechoslovakia—						
Phosphatic fertilizers (a)	170,000	191,000	208,000	256,000	286,000	266,000
Denmark—						
Phosphate-rock ..	302,353	281,522	307,792	279,362	337,285	301,167
Superphosphates ..	188,398	126,929	101,733	87,627	79,410	38,198
Di-calcium phosphates ..	23,544	25,981	26,214	33,785	33,199	34,346
Basic slag ..	6,146	9,365	8,370	9,118	9,324	4,087
Finland—						
Phosphate-rock ..	273,625	231,706	r 230,067	319,901	360,961	381,034
Superphosphates ..	73,302	62,335	16,187	35,533	134,142	1,573
Basic slag ..	10,089	10,947	10,366	9,873	15,207	11,170
Di-calcium phosphates ..	165	888	1,426	394	9,450	n.a.
France—						
Phosphate-rock ..	1,762,437	1,998,572	2,118,068	r 2,382,588	2,733,898	2,800,037
Aluminium phosphates .. r	80,206	r 83,472	r 79,271	r 87,560	90,891	87,604
Other phosphates ..	7,221	1,717	2,000	12,620	—	5,195
Superphosphates ..	270,980	287,682	329,634	369,667	306,255	238,616
Calcined phosphates ..	13,195	19,123	16,957	20,009	24,251	25,004
Basic slag ..	598,419	871,444	873,203	775,525	725,218	671,942
Di-calcium phosphates ..	22,505	27,113	18,597	20,768	20,088	10,389
Germany (Federal)—						
Phosphate-rock, etc. ..	1,488,526	1,596,262	1,615,589	2,254,392	2,481,278	2,466,740
Superphosphates ..	18,636	34,935	38,160	22,680	22,256	16,917
Basic slag ..	521,858	436,911	406,447	416,930	520,726	576,801
Other phosphatic fertilizers ..	117	273	631	729	1,433	1,176
Germany (East) (a)—						
Phosphate rock ..	231,100	236,100	246,400	320,000	315,300	305,800
Other phosphatic fertilizers ..	58,217	25,136	44,303	92,787	86,733	74,178
Greece—						
Phosphate-rock ..	141,260	r 145,633	r 200,843	r 25,409	155,160	223,844
Basic slag ..	n.a.	444	758	296	93	n.a.
Other phosphatic fertilizers ..	17,994	r 86,908	81,193	82,069	59,387	20,586
Hungary—						
Phosphate-rock ..	185,744	227,319	301,634	474,712	422,000	397,000
Iceland—						
Superphosphates ..	6,617	10,789	3,554	3,865	8,134	10,280
Italy—						
Phosphate-rock ..	r 1,363,572	r 1,548,818	r 1,455,265	r 1,689,441	1,628,954	1,847,217
Superphosphates ..	—	8	1,162	1,988	8,805	39,862
Basic slag ..	11,590	23,247	17,762	1,685	67,596	105,660
Netherlands—						
Phosphate-rock ..	700,260	555,807	r 664,484	797,667	771,066	891,935
Superphosphates ..	36,897	77,073	52,922	98,949	57,452	48,558
Basic slag ..	131,862	146,177	152,219	230,553	249,506	29,839
Di-calcium phosphates ..	3,621	185	9,490	2,863	2,965	336
Norway—						
Phosphate-rock ..	150,507	165,708	147,418	196,600	170,633	222,517
Basic slag ..	9,039	7,779	6,247	7,057	5,051	6,625

 (a) P_2O_5 content.

(b) Including other phosphatic fertilisers.

IMPORTS OF PHOSPHATES, ETC. (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Poland—						
Apatite concentrates .. r	335,000	351,000	312,200	r 425,200	548,200	620,000
Phosphate rock ..	446,400	557,700	475,800	549,400	635,000	588,000
Portugal—						
Phosphate-rock ..	271,063	238,388	268,982	252,341	270,635	220,398
Basic slag ..	11,417	9,351	9,900	14,311	10,471	9,949
Roumania—						
Phosphate-rock (a) ..	78,500	101,200	147,900	93,000	171,500	204,000
Spain—						
Phosphate-rock ..	926,640	r 1,010,041	985,844	1,084,069	1,069,482	1,134,671
Superphosphates, etc. ..	—	—	539	98	50	1,921
Basic slag ..	13,262	29,649	41,199	20,214	31,306	32,241
Di-calcium phosphates	816	219	—	—	—	3,528
Sweden—						
Phosphate-rock ..	367,750	r 396,710	378,970	420,019	480,742	418,128
Superphosphates ..	938	10	281	2,724	652	18,157
Di-calcium phosphates	7,822	5,586	3,941	3,638	2,771	2,448
Switzerland—						
Phosphate-rock ..	34,530	30,641	34,021	35,993	36,717	28,895
Superphosphates, etc. ..	11,885	12,600	12,304	14,471	12,503	14,593
Basic slag ..	172,023	176,664	180,799	189,590	191,258	191,253
Di-calcium phosphates	2,302	2,665	3,677	5,442	8,852	10,975
Yugoslavia—						
Phosphate-rock ..	250,616	319,154	532,056	634,749	464,391	677,410
Superphosphates ..	2,953	73,877	215,240	16,339	n.a.	3
Basic slag ..	2,814	7,598	76,279	116,044	6,939	11,122
Angola—						
Superphosphates ..	715	1,565	982	2,689	2,540	3,262
Cameroun—						
Phosphatic fertilizers ..	257	405	265	734	563	n.a.
Canary Islands—						
Phosphate-rock ..	16,598	14,293	16,500	14,587	19,025	17,782
Egypt—						
Superphosphates ..	129,647	73,921	n.a.	n.a.	n.a.	n.a.
Equatorial African Community—						
Phosphatic fertilizers ..	407	59	n.a.	106	496	1,286
Malagasy Republic—						
Phosphatic fertilizers ..	344	401	262	613	1,017	503
Morocco—						
Superphosphates ..	—	438	541	166	974	n.a.
Di-calcium phosphates	2,923	1,756	487	10	13	n.a.
Reunion—						
Phosphate fertilizers ..	1,729	790	873	882	642	282
South Africa—						
Phosphate-rock ..	364,471	443,691	313,926	297,976	172,356	154,797
Superphosphates ..	2,662	6,321	13,069	(b)	(b)	(b)
Basic slag ..	51,157	44,053	39,446	26,488	27,661	20,625
Other phosphatic fertilizers ..	n.a.	n.a.	n.a.	51,235	4,772	63,665
Sudan—						
Superphosphates ..	579	1,144	62	69	48	153
Tunisia—						
Phosphatic fertilizers ..	68	—	346	70	—	n.a.
Costa Rica—						
Phosphatic fertilizers ..	21,495	8,675	387	2,555	57,146	15,267
Dominican Republic—						
Superphosphates ..	4,732	5,321	n.a.	n.a.	n.a.	n.a.

 (a) P_2O_5 content.

(b) Included with "other phosphatic fertilizers".

IMPORTS OF PHOSPHATES, ETC. (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
French West Indies—						
Guadeloupe—						
Phosphatic fertilizers ..	523	184	345	98	1,198	469
Martinique—						
Phosphatic fertilizers ..	3,041	2,470	1,071	1,616	679	1,020
Guatemala—						
Phosphatic fertilizers ..	508	5,395	3,123	5,431	2,843	82
Honduras—						
Phosphatic fertilizers ..	135	579	32	3,042	2,864	2,045
Mexico—						
Phosphate-rock	65,263	126,186	196,109	200,445	224,586	285,195
Superphosphates	34,195	6,513	5,961	744	—	3
Ammonium phosphates	11,509	16,720	3,527	7,339	3,404	—
Nicaragua—						
Phosphatic fertilizers ..	341	714	1,937	4,547	13,900	14,670
Panama Republic—						
Phosphatic fertilizers ..	674	1,552	1,209	1,000	<i>n.a.</i>	<i>n.a.</i>
Salvador—						
Phosphatic fertilizers ..	1,109	1,131	1,338	3,449	15,472	23,705
United States—						
Phosphate-rock	134,004	133,628	160,708	155,819	132,263	158,721
Superphosphates—						
Single	1,151	13,860	64,144	70,512	51,698	<i>n.a.</i>
Concentrated	1,946	44,352				
Ammoniated	140	954	1,552	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Basic slag	46	2,012	527	—	146	<i>n.a.</i>
Di-calcium phosphates	10,149	9,193	4,326	6,291	2,683	<i>n.a.</i>
Ammonium phosphates	100,887	144,722	115,812	85,845	155,795	159,634
Brazil—						
Phosphate-rock	56,632	94,365	218,387	178,892	152,274	110,427
Superphosphates—						
Single	20,534	14,012	9,626	5,420	5,685	6,360
Concentrated	51,376	43,502	70,282	48,488	48,945	51,511
Calcined phosphates ..	2,809	2,046	4,399	4,353	2,092	1,985
Di-calcium phosphate ..	2,708	2,879	2,398	1,673	591	1,417
Basic slag	4,310	2,262	4,650	5,788	5,546	6,056
Chile—						
Superphosphates	35,128	58,788	77,864	<i>n.a.</i>	93,439	<i>n.a.</i>
Basic slag	13,585	15,529	33,695	<i>n.a.</i>	8,813	<i>n.a.</i>
Di-calcium phosphates	35,137	31,498	40,504	<i>n.a.</i>	37,698	<i>n.a.</i>
Other phosphatic fertilizers	18,556	31,184	32,769	<i>n.a.</i>	37,747	<i>n.a.</i>
Colombia—						
Phosphate-rock	3,347	8,191	16,829	26,370	6,449	17,083
Superphosphates	4,351	13,983	28,963	27,464	26,635	24,231
Di-calcium phosphates	31,354	9,623	7,364	2,477	451	12
Peru—						
Phosphate-rock	11,993	13,119	11,606	14,114	2,746	—
Phosphatic fertilizers ..	2,568	3,472	206	1,242	20,237	221
Uruguay—						
Phosphate-rock	36,332	37,152	5,905	41,692	44,703	82,563
Venezuela—						
Calcium phosphates and superphosphates ..	10,408	4,664	6,847	1,512	1,677	6,498
Burma—						
Phosphatic fertilizers ..	—	6,780	—	16,500	24,540	<i>n.a.</i>
Formosa—						
Calcium phosphate	(a)	(a)	539	786	1,108	45,290
Other phosphatic fertilizers	43,370	6,060	17,553	9,940	<i>n.a.</i>	
Indonesia—						
Superphosphates	121,553	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Phosphatic fertilizers ..	15,149	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

(a) Included, if any, with "Other phosphatic fertilizers".

IMPORTS OF PHOSPHATES, ETC. (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Iran (a)—						
Phosphatic fertilizers ..	9,523	17,020	17,038	13,878	18,897	37,302
Iraq—						
Phosphatic fertilizers ..	2,113	1,073	1,608	2,975	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Phosphate-rock ..	2,070,072	1,864,237	2,030,526	2,279,150	2,380,063	2,518,555
Jordan—						
Phosphatic fertilizers ..	722	2,219	1,709	2,523	2,362	5,025
Korea (South)—						
Superphosphates ..	46,530	55,479	27	1,981	<i>n.a.</i>	<i>n.a.</i>
Calcium phosphates ..	<i>n.a.</i>	<i>n.a.</i>	27	10,122	78,445	18,414
Other phosphatic fertilizers ..	<i>n.a.</i>	<i>n.a.</i>	246,755	239,920	200,994	315,277
Lebanon—						
Phosphatic fertilizers ..	9,574	12,484	20,296	21,714	43,862	1,942
Philippine Republic—						
Phosphate-rock ..	10,185	12,292	11,985	18,457	56,884	<i>n.a.</i>
Superphosphates ..	—	1,493	886	1,194	1,237	<i>n.a.</i>
Ammonium phosphate	24,858	19,708	6,882	15,966	27,111	<i>n.a.</i>
Other phosphatic fertilizers ..	17,086	52,430	4,682	24,087	18,777	<i>n.a.</i>
Syria—						
Phosphatic fertilizers ..	27,940	13,852	23,988	14,534	12,240	19,179
Thailand—						
Superphosphates ..	788	2,783	3,030	2,013	1,987	2,751
Phosphatic fertilizers ..	11,317	18,209	26,996	36,755	21,732	45,810
Turkey—						
Phosphate-rock ..	18,572	32,823	114,412	91,056	98,941	145,750
Superphosphates ..	36,659	37,996	19,202	29,010	111,647	130,553
Ammonium phosphate	19	15	31	26	53	3,045
Other phosphatic fertilizers ..	2,731	49	<i>n.a.</i>	<i>n.a.</i>	6,348	5,517
Vietnam (South)—						
Calcium phosphates ..	51,600	46,000	77,900	45,925	<i>n.a.</i>	<i>n.a.</i>
Other phosphatic fertilizers ..	6,084	8,078	23,629	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

(a) Years ended March 20 of year following that stated.

PLATINUM
PRODUCTION OF PLATINUM METALS

Troy ounces

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Canada—						
Recovered from Ontario nickel-copper ores (c)—						
Platinum	418,278	470,792	357,653	376,238	463,127	396,059
Other platinum metals						
Australia—						
New South Wales—						
Concentrates (Pt content)	2	2	4	—	—	—
New Guinea—						
Platinum	5	4	4	1	4	—
OTHER COUNTRIES						
U.S.S.R.—						
Crude platinum (d) ..	500,000	800,000	800,000	1,500,000	1,700,000	1,700,000
Ethiopia—						
Crude platinum ..	180	180	(d) 180	(d) 180	353	(d) 350
South Africa—						
Crude and matte (Pt metals content) (d)	350,000	300,000	300,000	600,000	750,000	780,000
Osmiridium (crude) (b)	5,769	5,603	5,185	4,135	3,820	4,000
United States (a)—						
New platinum metals recovered by refineries from crude platinum and gold and copper ores of domestic origin						
Platinum	17,155	14,244	20,818	15,608	11,376	18,103
Palladium	22,668	14,141	28,099	22,863	22,500	29,907
Iridium	1,284	739	1,381	2,423	1,414	1,513
Osmium	147	95	189	366	315	219
Rhodium	932	439	1,073	2,757	2,156	2,361
Ruthenium	306	146	398	286	400	558
Colombia (e)—						
Crude platinum ..	20,232	14,100	22,983	20,647	11,141	—
Japan—						
Platinum	2,247	1,872	1,714	2,199	2,466	2,733
Palladium	1,550	1,372	1,326	1,875	2,952	5,495
Philippine Republic—						
Platinum	177	172	—	—	—	—
Palladium	215	141	—	—	—	—
WORLD'S TOTAL (f)	1,300,000	1,600,000	1,500,000	2,500,000	3,000,000	3,000,000

(a) Secondary platinum metals recovered in the United States were as follows (troy ounces):

	1961	1962	1963	1964	1965	1966
Platinum	51,218	71,817	54,084	66,043	53,562	49,563
Palladium	32,451	56,273	59,993	49,879	50,025	50,009
Iridium	193	767	440	764	960	402
Osmium	6	99	273	928	763	728
Rhodium	1,836	2,570	1,990	2,338	2,590	2,434
Ruthenium	267	576	319	195	625	185

(b) Sales.

(c) Metal content of concentrates produced from nickel-copper ores.

(d) United States Bureau of Mines' estimate.

(e) Exports. Total production may be very much greater.

(f) Estimated.

EXPORTS OF PLATINUM*

Troy ounces

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Platinum—						
Ingots, grain and powder	307,461	253,320	509,580	429,125	489,054	472,592
Other kinds (a)	39,616	58,018	76,307	79,084	88,777	111,286
Other platinum metals and alloys	363,471	259,998	279,899	273,418	323,918	378,853
Canada—						
Concentrates, etc. (b) ..	626,876	542,985	506,782	404,891	492,501	431,723
Platinum metals	4,619	28,262	42,845	3,901	53,450	7,604
Scrap	n.a.	n.a.	n.a.	n.a.	n.a.	32,406
Australia (c)—						
Platinum and platinum group metals	677	101	417	548	423	1,538
OTHER COUNTRIES						
Austria—						
Unwrought platinum and platinum metals	1,157	579	354	514	804	1,382
Denmark—						
Rods, sheets, wire, scrap, etc.	n.a.	—	—	—	482	32
France—						
Unwrought platinum and scrap (a)	6,714	14,277	28,270	15,846	17,306	26,492
Palladium (inc. scrap) (a)	7,748	8,809	17,972	24,081	30,157	37,745
Drawn or rolled platinum	16,886	17,573	9,646	15,378	20,596	20,930
Germany (Federal)—						
Platinum metals (a)	90,439	123,041	121,147	174,061	332,242	364,686
Italy—						
Unwrought platinum	15,175	11,831	22,216	24,242	19,869	37,102
Netherlands—						
Unwrought platinum and platinum metals ..	21,541	8,359	22,120	8,552	20,706	7,877
Drawn or rolled	46,554	33,083	25,367	25,335	22,892	19,323
Norway—						
Platinum (incl. scrap) ..	10,706	15,786	10,610	18,551	18,004	14,564
Switzerland—						
Unwrought platinum ..	3,151	7,105	6,720	40,285	35,752	38,195

*Official figures which, in many cases, do not include platinum sent by post.

(a) Including alloys.

(b) Platinum and platinum metals contained in concentrates and other forms.

(c) Years ended June 30 of that stated.

EXPORTS OF PLATINUM (cont.)

Troy ounces

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
U.S.S.R.	(a)	(a)	(a)	(a)	(a)	(a)
Yugoslavia—						
Palladium	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	4,887	15,465
South Africa—						
Crude platinum metals	} (£8,700,183)	} (£6,639,594)	} (£4,885,269)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Osmiridium						
United States—						
Ores, etc. (<i>Pt content</i>) . .	} 41,385	} 49,651	} 51,236	} 125,139	} 72,925	} 102,031
Ingots, sheets, wire, etc.						
Palladium, rhodium, etc. and alloys						
Colombia—	20,460	10,940	11,776	21,167	30,172	103,425
Platinum	20,232	14,100	22,983	20,647	11,141	—

(a) Exports of platinum metals from U.S.S.R. are not published, but imports into the under-mentioned countries from U.S.S.R. were as follows (troy ounces):

	1961	1962	1963	1964	1965	1966
United Kingdom	23,378	13,889	39,402	28,332	68,658	52,777
France	49,470	87,808	56,824	67,034	17,755	20,364
Germany (Federal) . . .	113,653	141,017	163,916	152,471	288,300	291,736
Netherlands	30,479	27,264	35,655	26,267	13,214	11,478
United States	227,632	113,989	230,855	145,519	504,812	389,482
Japan	100,905	127,171	92,933	167,339	299,323	382,003

IMPORTS OF PLATINUM*

Troy ounces

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ores and concentrates	(£15,806,086)	(£14,532,560)	(£12,506,237)	(£17,176,633)	(£22,280,604)	(£24,146,847)
Platinum and platinum group metals	89,344	99,373	78,474	100,739	134,697	123,789
Canada—						
Platinum and platinum group metals	(£500,864)	(£1,432,386)	(£1,141,090)	(c) (£168,091)	(£687,531)	n.a.
Nigeria—						
Platinum and platinum group metals	—	—	7,712	2,356	9,976	37,209
Sierra Leone—						
Platinum and platinum group metals	—	5	908	n.a.	58	n.a.
Hong Kong—						
Platinum and platinum group metals	5,588	10,632	15,427	18,007	19,140	25,866
India (a)—						
Platinum	2,827	2,117	2,336	2,929	2,393	1,146
Malaysia (West)—						
Unwrought platinum ..	n.a.	n.a.	n.a.	n.a.	102	62
Sarawak—						
Platinum	n.a.	n.a.	n.a.	1,197	584	n.a.
Singapore—						
Unwrought platinum ..	427	219	6,204	145	2,540	7,673
Australia (b)—						
Platinum bars, rods, sheets, etc.	784	362	138	410	802	} (d)(e) 6,015
Bars, rods, sheets, etc. of other platinum metals	1,937	22	5	83	405	
Platinum metal powder	669	1,071	2,914	3,850	2,585		(d)(e) 701
Wire	2,127	1,546	720	1,636	1,592	(d)(e) 11,123
New Zealand—						
Platinum and platinum group metals	2,874	2,763	(b) 2,557	(b) 1,980	(b) 1,894	n.a.
OTHER COUNTRIES						
Austria—						
Unwrought platinum and platinum metals	2,379	997	5,626	1,447	1,093	2,476
Denmark—						
Rods, sheets, wire and scrap	1,640	1,800	1,865	2,379	6,400	7,073
Finland—						
Unwrought platinum etc.	8,809	21,380	4,003	n.a.	4,662	5,276
France—						
Unwrought platinum, alloys and scrap ..	87,319	101,198	107,607	83,076	90,725	78,176
Unwrought palladium, alloys and scrap ..	31,218	52,084	61,729	66,648	64,129	66,884
Drawn or rolled platinum	703	10,352	2,266	4,921	9,679	15,938
Germany (Federal)—						
Platinum metals and alloys	219,439	215,803	325,349	358,687	507,093	540,872
Italy—						
Unwrought platinum .. r	33,726	33,790	33,019	43,082	63,819	37,134
Drawn or rolled .. r	8,906	11,060	7,652	5,916	4,630	9,484
Other platinum metals r	17,522	33,983	22,698	21,284	5,048	23,663

*Official figures, which in many cases do not include platinum sent by post.

(a) Years ended March 31 following that stated.

(b) Years ended June 30 of that stated.

(c) Excess of re-exports

(d) Including alloys.

(e) Owing to reclassification not strictly comparable with earlier years.

IMPORTS OF PLATINUM (cont.)

Troy ounces

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
(cont.)						
Netherlands—						
Unwrought platinum and platinum metals ..	66,359	48,194	65,427	42,953	49,172	33,694
Drawn or rolled ..	11,639	12,732	12,539	22,827	32,548	31,186
Norway—						
Unwrought platinum ..	2,218	1,640	1,350	547	739	1,222
Drawn or rolled ..	1,198	1,244	1,377	932	2,508	1,800
Portugal—						
Sheets, wire, etc. ..	41	130	22	100	4,611	1,022
Spain—						
Bars, sheets, wire, etc. ..	6,559	4,083	32	1,134	n.a.	n.a.
Switzerland—						
Unwrought platinum ..	26,524	32,569	42,117	49,866	28,003	37,809
Yugoslavia—						
Unwrought platinum ..	9,227	15,754	19,162	13,343	13,310	21,863
South Africa—						
Platinum	845	2,403	1,687	1,533	4,118	3,663
Mexico—						
Platinum	240	149	17	133	n.a.	64
Palladium	2,088	3,679	3,428	4,968	n.a.	5222
United States—						
Ore (a)	568	—	—	n.a.	n.a.	63,622
Grains and nuggets (a) ..	22,997	23,366	50,691	35,916	58,297	86,700
Sponge and scrap (a) (b) ..	110,057	n.a.	n.a.	n.a.	210,560	192,486
Ingots, bars, sheets(a) (b) ..	138,352	93,202	n.a.	114,174	132,139	78,862
Iridium	4,366	9,001	13,059	6,571	8,060	} 12,319
Osmium and osmiridium ..	3,067	1,086	2,091	3,947	4,257	
Palladium	571,693	431,872	503,843	445,913	507,745	855,522
Rhodium and ruthenium ..	26,363	38,622	40,417	66,089	47,693	72,507
Brazil—						
Unwrought platinum ..	514	7,268	—	—	1,061	3
Palladium	900	1,125	—	—	—	—
Colombia—						
Unwrought platinum ..	1,254	932	64	129	64	64
Uruguay—						
Platinum metals ..	n.a.	n.a.	n.a.	n.a.	192	n.a.
Venezuela—						
Unwrought platinum ..	3,762	13,310	36,523	12,603	3,697	3,054
Japan—						
Platinum	95,193	133,843	221,844	165,718	180,636	185,018
Palladium	96,541	87,494	147,070	168,287	260,524	379,787
Rhodium	1,605	1,711	2,950	4,127	4,325	6,123
Iridium, etc.	1,489	2,666	2,267	1,816	1,852	2,359
Lebanon—						
Unwrought platinum ..	2,861	4,559	2,875	2,780	5,153	3,311
Turkey—						
Sheets	900	n.a.	3,440	96	32	n.a.

(a) Platinum content.

(b) As recorded in official trade returns. According to the U.S. Bureau of Mines, however, these items have been re-classified as follows:

	1961	1962	1963	1964	1965	1966
Sponge and scrap ..	9,933	6,185	7,647	(d) 5,127	(d) 4	(d) 851
Platinum metal ..	236,859	210,220	382,596	281,922	317,000	272,482

(c) Sponge only.

(d) Scrap only.

POTASH MINERALS
PRODUCTION OF POTASH

Long tons

Producing Country and Description	K ₂ O Content or Equivalent					
	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Canada— Potash salts	---	n.a.	n.a.	n.a.	n.a.	n.a.
OTHER COUNTRIES						
France (b)— Sylvinite, 12-22% K ₂ O Fertilizer salts 30-40% K ₂ O	41,391 124,887 1,516,573	47,151 138,112 1,509,344	34,517 116,234 1,543,591	36,553 126,631 1,614,844	53,741 137,415 1,666,698	26,586 106,358 1,621,002
Germany— Federal Republic— Kainite, sylvinite, etc. Eastern— Potash salts	19,200,561 n.a.	18,121,975 n.a.	18,244,498 n.a.	20,263,188 n.a.	21,851,925 n.a.	21,143,258 n.a.
Italy— Crude potash salts	894,010	1,022,188	1,243,738	1,446,846	1,698,000	1,833,000

(a) United States Bureau of Mines' estimate.

(b) Crude salts as mined. The K₂O content by salts relates to the marketable product only.

PRODUCTION OF POTASH (cont.)

Producing Country and Description	K ₂ O Content or Equivalent										Long tons		
	1961	1962	1963	1964	1965	1966	1961	1962	1963	1964		1965	1966
OTHER COUNTRIES													
Spain—													
Carnallite, sylvinite, etc.	1,695,397	1,553,577	1,819,025	2,117,145	2,601,140	3,045,422	289,375	260,386	295,683	339,209	420,000	490,000	
U.S.S.R. (a)—	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	1,299,000	1,900,000	2,020,000	2,165,000	2,310,000	2,500,000	
Potash salts							2,439,823	2,190,108	2,557,176	2,586,600	2,804,000	2,964,000	
United States—	4,133,000	3,721,000	4,349,000	4,423,000	4,822,000	5,090,000							
Potash salts (b)													
Chile—													
Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	13,843	17,447	(a)18,300	13,300	(a)14,000	(a)14,500	
Israel—							83,600	89,500	110,000	190,000	288,000	n.a.	
Chloride	d 137,751	d 148,290	d 185,000	d 314,700	473,000								
Japan—							n.a.						
Alunite	1,784												
World's Total (c)							9,900,000	10,400,000	11,500,000	12,400,000	13,800,000	14,600,000	

(a) United States Bureau of Mines' estimate.

(b) Marketable production.

(c) Estimated.

(d) Years ended March 31 of year following that stated.

EXPORTS OF POTASH SALTS

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Nitrate	} 255	35	12	104	143	156
Sulphate						
Other compounds						
India (a)—	4,117	4,473	n.a.	n.a.	n.a.	n.a.
Nitrate	8	8	5	3	3	6
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Fertilizer salts	3,962	595	344	25	317	2,337
Carbonate	1,469	2,496	2,352	2,560	2,284	1,624
Chloride	795,950	770,048	768,648	701,649	594,241	(b) 326,962
Chlorates	—	1	6	10	—	n.a.
Nitrate	—	1	1	1	1	—
Sulphate	279,715	250,789	286,197	262,756	314,030	(b) 142,018
Finland—						
Chlorate	77	39	—	—	—	—
France—						
Sylvinite, etc.	240,880	137,666	72,043	90,037	90,698	69,509
Carbonate	13,916	13,154	16,165	20,638	19,461	21,775
Caustic potash	9,820	11,111	10,459	11,774	9,926	91,161
Chlorate	1,198	1,055	13,109	1,268	1,351	1,442
Chloride	1,228,067	1,028,710	1,082,522	1,187,890	1,008,291	973,842
Sulphate	10,830	13,291	11,327	5,795	1,362	898
Nitrate	2,079	2,322	2,762	2,076	1,935	1,939
Germany (Federal)—						
Fertilizer salts	1,650,061	1,343,640	1,507,028	1,542,227	1,970,886	1,572,209
Carbonate	7,485	6,984	7,967	10,039	10,184	13,026
Caustic potash	n.a.	n.a.	11,690	12,108	12,173	11,304
Chlorate	736	597	542	545	497	439
Nitrate	11,582	12,254	12,746	14,305	13,949	14,033
Germany (East)—						
Fertilizer salts						
(K ₂ O content)	1,030,000	1,129,000	1,143,000	1,199,000	1,271,000	1,352,000
Carbonate	7,946	9,614	9,910	9,508	10,095	9,245
Caustic potash	5,904	5,640	6,422	7,156	8,326	7,108
Italy—						
Nitrate	971	925	910	80	999	2,476
Caustic potash	1,750	3,455	4,162	2,631	1,969	2,390
Sulphate	r 58,314	r 55,382	75,391	85,029	111,622	117,966
Netherlands—						
Carbonate	57	93	1,248	844	401	1,172
Caustic potash	10	10	32	37	44	32
Chloride	643	738	786	461	766	428
Nitrate	84	134	70	104	421	639
Sulphate	233	373	518	497	767	411
Poland—						
Caustic potash	1,729	n.a.	1,388	899	820	961
Chlorate	739	n.a.	645	900	785	1,080
Portugal—						
Caustic potash	9	9	7	336	5	46
Chloride	161	94	60	253	249	272
Sulphate	49	43	89	255	1,192	643
Spain—						
Chloride	288,349	225,113	253,374	305,150	388,981	438,121
Nitrate	441	707	1,371	990	951	709
Sulphate	2,657	19,054	11,962	12,012	7,352	7,332

(a) Years ended March 31 following that stated.

 (b) K₂O content.

EXPORTS OF POTASH SALTS (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Sweden—						
Carbonate	—	1	—	—	—	—
Caustic potash	2,491	2,278	2,462	2,770	2,794	2,651
U.S.S.R.—						
Fertilizer salts	749,600	863,800	976,500	742,300	812,500	1,072,000
United States—						
Chloride	644,614	717,856	593,113	821,407	815,661	761,692
Other fertilizer salts	48,981	39,241	38,171	95,062	123,897	129,129
Caustic potash	2,087	3,246	3,627	5,233	5,040	3,442
Other compounds	23,927	8,223	<i>n.a.</i>	14,017	36,289	<i>n.a.</i>
Chile—						
Nitrate	67,301	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	96,221	<i>n.a.</i>
Israel—						
Fertilizer salts	72,264	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	(a) 6,542	(b) 654
Chloride	80,368	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Chlorate	688	873	1,365	971	1,070	939
Chloride	6,604	3,520	5,665	10,005	11,276	3,121
Sulphate	2,153	105	267	297	5,973	2,101
Caustic potash	<i>n.a.</i>	16	23	52	397	297

(a) Potassium sulphate only.

(b) Potassium carbonate only.

IMPORTS OF POTASH SALTS

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Fertilizer salts	52,997	52,165	28,855	37,025	37,645	35,584
Carbonate	5,535	4,719	5,836	8,374	7,921	8,951
Caustic potash and lyes	1,937	1,832	<i>n.a.</i>	2,327	2,027	2,482
Chlorate	1,031	1,077	(a)	(a)	(a)	(a)
Chloride	693,156	666,464	680,098	660,597	677,779	630,370
Nitrate	3,368	3,434	2,793	3,029	3,026	4,004
Sulphate	21,710	23,995	27,742	33,636	32,952	37,704
Other compounds	3,210	6,557	13,975	6,983	2,912	6,640
Ghana—						
Fertilizer salts	672	455	1,075	1,301	263	279
Kenya—						
Fertilizer salts	30	28	376	155	276	828
Mauritius—						
Fertilizer salts	8,450	11,143	13,304	12,988	7,912	8,490
Nigeria—						
Fertilizer salts	1,394	1,341	655	835	3,222	1,728
Rhodesia (b)—						
Fertilizer salts	28,973	26,263	31,005	37,342	29,013	<i>n.a.</i>
Compounds	351	680	430	220	177	<i>n.a.</i>
Sierra Leone—						
Fertilizer compounds ..	11	76	374	5	—	25
Tanzania—						
Fertilizer salts	537	667	1,659	898	1,344	1,336
Uganda—						
Fertilizer salts	521	2,835	1,981	1,685	367	623
Canada—						
Caustic potash	1,524	1,482	1,936	1,629	1,620	1,472
Chlorate	45	52	21	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Crude chloride	151,587	132,119	66,137	59,855	48,047	25,130
Nitrate	818	815	760	789	1,308	1,443
Crude sulphate	23,641	21,412	16,888	17,463	16,601	22,639
Other compounds	6,393	5,922	4,698	<i>n.a.</i>	8,081	10,545
Antigua—						
Fertilizer salts	5	2,928	<i>n.a.</i>	—	—	<i>n.a.</i>
Barbados—						
Fertilizer salts	6,535	3,372	4,204	7,763	3,122	4,475
Grenada—						
Fertilizer salts	266	50	150	81	30	370
Jamaica—						
Fertilizer salts	5,434	2,121	6,430	10,151	6,639	8,032
St. Kitts—						
Potassic fertilizers ..	952	855	1,116	985	1,001	1,010
St. Lucia—						
Potassic fertilizers ..	100	200	586	745	455	120
St. Vincent—						
Chloride	7	7	83	15	912	1,881
Trinidad and Tobago—						
Chloride and sulphate ..	3,300	2,755	2,966	2,668	3,175	1,491
Guyana—						
Fertilizer salts	3,625	3,862	<i>n.a.</i>	2,005	1,235	2,022
Ceylon—						
Kainite and sylvinite ..	417	100	120	382	—	—
Chloride	47,483	38,516	60,569	47,879	57,050	53,896
Nitrate of potash refuse	2	108	100	22	—	20
Sulphate	315	120	195	2,135	428	2,270
Cyprus—						
Fertilizer salts	507	468	385	273	494	370
Hong Kong—						
Nitrate	299	684	626	423	404	341
Chlorate	90	99	72	66	88	170
Other fertilizer salts ..	326	47	27	18	16	57

(a) Included, if any, with "Other compounds". (b) Figures for years 1961 to 1963 relate to Rhodesia and Nyasaland.

IMPORTS OF POTASH SALTS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
<i>(cont.)</i>						
India (a)—						
Carbonate	1,207	1,227	1,172	1,224	1,086	1,270
Caustic potash	2,488	2,480	3,304	3,649	2,910	2,557
Nitrate	6	19	2	2	—	5
Sulphate	8,812	3,218	4,242	10,538	6,379	23,719
Chlorate	2	—	74	—	11	172
Chloride	43,815	76,661	69,684	75,315	123,224	147,481
Malaysia (West)—						
Fertilizer salts	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	32,651	45,796
Pakistan—						
Chlorate	694	599	145	1,157	<i>n.a.</i>	<i>n.a.</i>
Other compounds	<i>n.a.</i>	<i>n.a.</i>	87	176	<i>n.a.</i>	<i>n.a.</i>
Sabah—						
Fertilizer salts	157	155	9	657	353	567
Sarawak—						
Fertilizer salts	30	552	443	898	1,434	1,065
Australia (c)—						
Carbonate	679	774	969	993	1,223	1,153
Caustic potash	805	898	969	1,099	1,426	1,148
Chloride	45,109	65,214	47,472	84,864	101,098	82,411
Nitrate	519	355	424	403	470	421
Sulphate	7,417	8,842	10,343	11,361	7,926	11,152
Other fertilizer salts	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	14,570
Other compounds	1,240	365	353	319	480	312
New Zealand—						
Chloride	120,366	96,945	100,460	(c) 96,862	(c) 143,223	(c) 172,249
Nitrate	196	116	(c) 128	(c) 166	(c) 184	(c) 184
Sulphate	3,595	2,687	3,671	(c) 3,673	(c) 4,503	(c) 4,046
Other fertilizer salts	248	7,873	1,080	(c) 27,091	(c) 3,060	(c) 1,063
Compounds other than fertilizer	340	241	(c) 165	(c) 178	(c) 144	(c) 227
Irish Republic—						
Fertilizer salts	3,082	3,322	4,986	4,548	244	241
Chloride	117,434	142,720	158,217	154,772	147,820	148,190
Other compounds	591	811	235	192	10,022	9,592
OTHER COUNTRIES						
Austria—						
Fertilizer salts	232,236	228,394	240,502	231,337	208,586	156,568
Caustic potash	397	385	435	418	378	415
Carbonate	968	821	966	1,050	816	962
Chloride	6,871	28,017	39,313	59,607	65,093	134,137
Nitrate	428	320	399	385	507	547
Sulphate	9,639	10,564	14,471	11,808	25,750	17,486
Belgium-Luxemburg						
E.U.—						
Fertilizer salts	223,108	190,310	65,290	78,293	85,284	(d) 13,506
Carbonate	866	997	899	974	1,263	1,521
Chlorates	591	298	482	522	470	409
Chloride	1,269,205	1,158,098	1,108,101	1,257,902	1,297,205	(d) 679,322
Nitrate	2,279	2,156	2,631	2,809	2,607	2,519
Sulphate (b)	24,246	20,837	22,944	18,545	26,725	(d) 7,259
Czechoslovakia—						
Fertilizer salts (K ₂ O content)	198,000	233,000	249,000	343,000	353,000	397,000

(a) Years ended March 31 following that stated.

(c) Years ended June 30 of that stated.

(b) Including patent potash.

 (d) K₂O content.

IMPORTS OF POTASH SALTS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Denmark—						
Carbonate	379	363	354	393	369	399
Caustic potash	1,000	1,019	960	1,106	997	1,064
Chlorate	91	76	106	110	108	117
Chloride	371,940	281,323	279,700	278,982	275,469	217,250
Nitrate	879	1,034	1,206	1,335	1,295	1,314
Sulphate	1,833	2,238	1,963	2,696	1,363	1,134
Finland—						
Fertilizer salts	125,176	127,210	128,797	133,249	204,223	171,881
Carbonate	407	513	522	427	474	780
Caustic potash	215	301	203	266	274	275
Nitrate	263	383	168	528	552	461
Sulphate	6,765	9,681	8,785	9,725	16,139	13,968
France—						
Chloride	—	1,467	—	69	4,658	18,866
Sulphate	19,441	40,936	47,942	55,622	60,392	34,315
Caustic potash	70	74	88	141	122	105
Patent potash	4,409	4,784	5,356	7,509	6,590	7,852
Germany (Federal)—						
Fertilizer salts	27,934	36,327	47,807	47,437	48,408	37,160
Carbonate	1,439	1,678	5,647	5,273	5,594	4,681
Caustic potash	621	718	813	2,526	3,959	9,192
Chlorate	599	1,074	959	589	596	535
Nitrate	756	1,069	1,188	2,202	3,019	4,577
Greece—						
Carbonate	677	r 1,086	1,497	1,071	1,052	3,102
Caustic potash	57	29	47	32	64	103
Nitrate	89	95	79	104	167	79
Sulphate	20,475	r 15,847	r 22,195	19,230	36,372	27,917
Hungary—						
Fertilizer salts	114,259	195,475	214,385	200,103	196,000	281,000
Iceland—						
Fertilizer salts	2,999	5,167	4,676	8,030	11,081	9,031
Carbonate	8	16	59	88	83	80
Caustic potash	30	53	66	71	59	26
Italy—						
Fertilizer salts	47,483	r 38,061	37,389	r 39,822	35,765	40,986
Carbonate	r 4,031	4,408	3,653	3,202	4,199	5,652
Caustic potash	r 1,679	1,411	1,059	707	577	322
Chloride	105,549	154,643	130,094	r 167,962	157,903	215,912
Nitrate	758	r 728	1,027	r 2,081	1,501	1,523
Sulphate	20,244	11,632	8,531	r 9,878	5,802	3,965
Netherlands—						
Kainite	23,098	22,271	25,236	40,753	40,058	n.a.
Fertilizer salts						
(20% K ₂ O)	25,001	17,144	26,833	37,948	45,570	n.a.
do. (40% K ₂ O)	152,510	120,810	132,461	159,654	161,684	n.a.
Carbonate	5,156	6,306	7,081	6,576	7,019	8,205
Caustic potash	8,163	7,939	17,834	55,689	60,622	75,575
Chloride	89,881	104,518	112,758	123,585	128,540	126,542
Nitrate	1,841	2,477	2,807	2,914	3,146	3,282
Sulphate	46,291	64,275	53,672	66,567	72,007	47,896
Patent potash	44,296	44,093	47,365	45,857	42,257	10,452
Norway—						
Fertilizer salts	409	307	516	295	352	226
Carbonate	708	329	308	336	332	300
Caustic potash	1,276	1,265	1,350	1,325	1,301	1,211
Chlorate	132	137	126	126	142	145
Chloride	76,164	81,004	100,407	111,246	116,061	144,809
Nitrate	156	215	178	164	240	234
Sulphate	12,935	4,435	9,178	10,068	6,240	10,177

IMPORTS OF POTASH SALTS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES (cont.)						
Poland						
Fertilizer salts	791,200	n.a.	735,694	(b) 970,500	(b) 1,253,000	(b) 1,519,000
Carbonate	1,471	n.a.	1,713	2,030	5,342	3,199
Chloride	11,538	n.a.	14,271	(a)	(a)	(a)
Sulphate	2,911	n.a.	3,364	(a)	(a)	(a)
Portugal—						
Carbonate	62	144	109	170	84	104
Caustic potash	100	707	257	320	295	280
Chlorate	214	220	178	195	220	250
Chloride	14,003	13,890	21,398	21,975	30,767	22,723
Nitrate	402	291	296	286	430	457
Sulphate	1,595	1,132	1,329	2,177	2,581	15
Roumania—						
Fertilizer salts (c)	11,800	10,100	5,700	8,700	13,100	21,700
Sweden—						
Fertilizer salts						
(40% K ₂ O)						
do. (other)	448	736	826	838	503	449
Carbonate	920	890	966	1,012	962	1,165
Caustic potash	212	260	246	299	758	245
Chloride	137,821	144,294	134,849	144,780	171,941	142,348
Nitrate	873	1,129	1,005	1,122	1,206	1,636
Sulphate	13,646	13,673	20,602	29,660	19,095	24,714
Switzerland—						
Fertilizer salts	96,104	101,437	104,111	108,571	116,106	101,781
Carbonate	1,760	2,114	1,933	2,520	2,505	2,053
Caustic potash	2,143	2,033	1,483	1,705	1,494	1,098
Nitrate	560	768	839	880	743	788
Sulphate	1,037	950	540	921	866	691
U.S.S.R.—						
Caustic potash	3,100	2,700	6,600	7,200	9,400	5,800
Yugoslavia—						
Fertilizer salts	75,664	107,166	289,531	370,326	152,888	299,705
Caustic potash	636	482	738	746	635	712
Chlorate	n.a.	n.a.	n.a.	n.a.	310	522
Chloride	35,226	13,367	19,080	17,000	16,922	n.a.
Sulphate	4,234	4,178	2,928	2,011	4,408	5,034
Angola—						
Chloride	553	457	576	865	343	462
Sulphate	200	79	183	103	1,113	657
Cameroun—						
Fertilizer salts	2,212	2,010	782	4,049	7,013	n.a.
Canary Islands—						
Fertilizer salts	—	—	—	—	1,154	1,229
Congo, Republic of—						
Fertilizer salts	n.a.	n.a.	n.a.	2,395	705	6,685
Egypt—						
Carbonate	272	401	n.a.	n.a.	n.a.	n.a.
Caustic potash	383	37	n.a.	n.a.	n.a.	n.a.
Chlorate	256	n.a.	n.a.	n.a.	n.a.	n.a.
Malagasy Republic—						
Fertilizer salts	946	382	694	518	2,255	2,173
Morocco—						
Chloride	5,063	4,214	4,672	4,264	4,193	n.a.
Sulphate	7,513	6,877	8,001	6,639	10,127	n.a.
Reunion—						
Fertilizer salts	2,154	755	1,092	2,416	1,622	875
South Africa—						
Fertilizer salts	65,169	80,305	116,573	121,361	77,627	68,089
Nitrate	605	849	1,273	n.a.	n.a.	n.a.
Caustic potash	283	376	307	421	452	592
Other compounds	1,147	1,248	1,163	n.a.	609	65,577

(a) Included with fertilizer salts.

 (c) K₂O content.

(b) Including chloride and sulphates.

IMPORTS OF POTASH SALTS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Sudan—						
Caustic potash	<i>n.a.</i>	<i>n.a.</i>	67	75	1	21
Tunisia—						
Fertilizer salts	2,477	4,426	5,063	6,411	1,722	3,491
Caustic potash	2,340	2,203	2,836	3,841	113	<i>n.a.</i>
Costa Rica—						
Fertilizer salts	968	3,000	671	2,732	11,140	13,293
Dominican Republic—						
Chloride	4,348	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
French West Indies—						
Guadeloupe—						
Fertilizer salts	7,235	5,788	3,079	3,409	373	122
Martinique—						
Fertilizer salts	7,686	6,059	4,161	4,624	3,708	3,296
Guatemala—						
Fertilizer salts	82	68	73	824	25,945	860
Honduras—						
Fertilizer salts	88	1,820	1,711	5,896	6,166	7,726
Mexico—						
Carbonate	440	476	578	429	608	760
Chloride	13,981	20,790	19,986	26,961	30,977	40,131
Caustic potash	482	533	497	710	531	945
Sulphate	100	11	8	12	6,485	7,173
Nicaragua—						
Fertilizer salts	165	444	361	759	4,369	2,591
Panama Republic—						
Fertilizer salts	450	453	569	501	<i>n.a.</i>	<i>n.a.</i>
Salvador—						
Fertilizer salts	1,083	902	1,129	431	3,832	3,943
United States—						
Carbonate	159	103	228	425	55	1,279
Caustic potash	856	1,125	932	824	868	1,945
Chlorates	392	601	704	681	511	<i>n.a.</i>
Chloride	296,343	407,650	788,153	1,067,604	1,589,537	2,131,447
Cyanide	681	858	774	942	988	1,040
Nitrate	3,961	5,646	7,110	5,294	4,377	24,617
Potassium-sodium nitrate mixtures	12,322	24,376	34,000	12,052	6,615	35,804
Sulphate	80,512	99,322	92,593	60,029	47,619	51,631
Argentina—						
Carbonate	561	235	388	649	419	493
Caustic potash	484	432	794	3,330	1,059	855
Chlorate	1,096	419	461	404	92	386
Nitrate	68	2	—	15	—	—
Sulphate	355	98	20	493	49	344
Brazil—						
Caustic potash	553	907	1,541	733	577	1,388
Nitrate	749	802	777	750	894	739
Nitrate of potash and soda	2,989	12,104	16,429	7,171	21,296	18,411
Chloride	109,374	104,082	144,184	108,759	152,903	141,816
Sulphate	7,333	6,266	4,232	4,218	5,996	8,238
Carbonate	523	541	891	455	446	1,532
Chlorate	20	—	10	—	—	—
Chile—						
Caustic potash	122	118	319	<i>n.a.</i>	179	<i>n.a.</i>
Chlorate	60	12	2,163	<i>n.a.</i>	14,394	<i>n.a.</i>
Chloride	1,669	1,472	1,890	<i>n.a.</i>	1,153	<i>n.a.</i>
Sulphate	8,411	6,538	5,064	<i>n.a.</i>	1,829	<i>n.a.</i>
Other fertilizer salts	689	734	2,920	<i>n.a.</i>	1,675	<i>n.a.</i>

IMPORTS OF POTASH SALTS (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Colombia—						
Chlorate	370	224	362	280	194	265
Chloride	14,671	15,691	29,593	38,432	30,968	30,307
Nitrate	247	208	401	196	87	498
Sulphate	3,710	1,771	4,444	4,361	5,076	17,465
Other fertilizer salts ..	143	—	—	—	4,515	196
Peru—						
Fertilizer salts	2,364	4,045	2,332	1,780	9,830	2,379
Nitrate	76	62	9	95	156	141
Carbonate	28	45	38	20	32	45
Chloride	24	110	35	96	60	2,036
Caustic potash	27	34	18	28	21	31
Uruguay—						
Nitrate	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	7	11
Caustic potash	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	49	153
Venezuela—						
Carbonate	69	61	23	47	46	65
Chlorate	317	164	116	239	247	260
Chloride	2,740	1,970	2,288	4,905	5,020	10,629
Nitrate	172	105	210	177	140	414
Sulphate	7,021	5,746	4,145	7,698	19,438	4,948
Burma—						
Fertilizer salts	—	414	257	351	—	<i>n.a.</i>
Formosa—						
Fertilizer salts	42,792	49,878	46,730	92,990	88,844	31,259
Indonesia—						
Fertilizer salts	13,434	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Nitrate	76	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Iran (a)—						
Fertilizer salts	3,141	704	1,477	689	—	—
Iraq—						
Fertilizer salts	247	615	200	311	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Kainite, etc.	492	1,279	5,445	16,513	19,203	15,000
Chloride	918,040	691,305	952,460	976,434	961,080	1,068,942
Sulphate	136,189	38,398	99,268	65,531	86,093	82,021
Jordan—						
Fertilizer salts	1,648	766	1,488	4,016	6,149	6,926
Korea (South)—						
Chloride	1	8,084	41,993	44,883	55,516	20,612
Other fertilizer salts ..	<i>n.a.</i>	<i>n.a.</i>	53,261	9,879	39,856	310,379
Lebanon—						
Fertilizer salts	3,792	3,608	3,489	4,596	2,097	5,554
Philippine Republic—						
Nitrate	<i>n.a.</i>	<i>n.a.</i>	28	218	<i>n.a.</i>	<i>n.a.</i>
Sulphate	<i>n.a.</i>	2,686	4,592	1,105	2,982	<i>n.a.</i>
Other fertilizer salts ..	33,855	40,156	9,021	37,656	48,226	<i>n.a.</i>
Thailand—						
Chlorate	177	301	143	187	254	455
Chloride	64	72	53	984	127	40
Nitrate	705	743	933	855	866	1,198
Sulphate	305	886	937	787	2,037	250
Turkey—						
Carbonate	1,687	1,150	648	706	1,108	1,583
Caustic potash	379	363	246	355	467	429
Chlorates	70	221	170	156	434	442
Nitrate	59	74	296	211	267	587
Sulphate	31	1,547	570	541	6,112	3,122
Vietnam (South)—						
Fertilizer salts	15,399	7,597	11,600	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

(a) Years ended March 20 of year following that stated.

PYRITES
PRODUCTION OF PYRITES
 (see also Sulphur)
 (including Cupreous Pyrites)

Producing Country	Estimated Sulphur Content										Long tons		
	1961	1962	1963	1964	1965	1966	1961	1962	1963	1964		1965	1966
COMMONWEALTH COUNTRIES													
United Kingdom ..	164	26,988	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Rhodesia ..	58,442	50,456	65,055	81,129	n.a.	n.a.	22,200	19,200	24,700	n.a.	n.a.	n.a.	n.a.
Canada (c) ..	461,837	461,882	425,391	314,152	n.a.	n.a.	228,014	229,539	210,187	154,627	n.a.	n.a.	n.a.
Cyprus (d) ..	824,771	809,263	907,940	673,786	341,229	289,489	398,000	388,000	442,000	324,000	170,000	474,000	145,000
Australia (b) ..	213,423	148,566	194,059	220,078	977,829	947,444	102,100	65,100	84,600	94,600	88,800	88,800	111,800
TOTAL ..	1,558,637	1,497,155	1,600,000	1,300,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000
Irish Republic ..	49,921	37,229	—	—	—	—	n.a.	n.a.	—	—	—	—	—
OTHER COUNTRIES													
Bulgaria (b) ..	119,785	140,056	127,880	144,530	150,501	n.a.	50,000	59,000	54,000	61,000	63,000	n.a.	n.a.
Czechoslovakia (b) ..	363,000	395,000	342,000	355,000	369,000	346,000	141,000	133,000	133,000	140,000	142,000	133,000	133,000
Finland (b) ..	270,043	467,171	532,556	542,517	576,184	500,000	114,000	118,000	224,000	260,000	280,000	260,000	260,000
France (d) ..	280,930	299,153	288,525	188,319	132,239	86,685	117,769	124,592	106,785	78,434	55,887	35,676	35,676
Germany (Federal) ..	501,475	380,717	351,813	419,081	438,984	444,015	194,057	148,133	145,474	176,843	183,392	183,392	191,691
Germany (East) ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	40,000	41,000	43,000	41,000	43,000	43,000	53,000
Greece ..	184,917	141,891	110,866	r 113,141	n.a.	n.a.	86,000	66,000	52,000	53,000	n.a.	n.a.	n.a.
Italy ..	1,555,229	1,558,970	1,380,224	r 1,373,815	1,379,396	1,283,846	716,000	721,000	640,000	640,000	640,000	640,000	590,000
Norway ..	721,808	797,077	710,052	708,040	697,675	666,798	319,000	355,000	323,000	317,000	313,000	297,000	297,000
Poland ..	198,000	219,000	213,000	230,000	n.a.	n.a.	76,000	82,000	85,000	87,000	n.a.	n.a.	n.a.
Portugal ..	642,609	631,164	592,559	597,808	606,657	549,043	295,600	290,336	272,577	274,991	279,062	279,062	252,560
Roumania ..	259,000	300,000	328,000	403,000	n.a.	n.a.	103,000	120,000	131,000	160,000	n.a.	n.a.	n.a.

(a) Saleable.

(b) Pyrite concentrate.

(c) Producers shipments of pyrites produced as a by-product in the treatment of copper and copper-zinc ores.

(d) In addition the sulphur content of mispickel and auriferous pyrites was as follows (long tons): 1961—8,217; 1962—9,018; 1963—9,314; 1964—8,033; 1965—9,664; 1966—9,182.

PRODUCTION OF PYRITES (cont.)

Producing Country	Long tons											
	Estimated Sulphur Content											
	1961	1962	1963	1964	1965	1966	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES (cont.)												
Spain	2,096,877	2,095,432	1,995,226	2,355,423	2,386,100	2,388,635	1,001,000	997,000	950,000	1,117,000	1,131,000	1,131,000
Sweden	431,322	371,683	396,260	445,239	434,363	426,800	220,424	188,967	202,161	227,524	221,475	220,000
U.S.S.R. (c) .. .	2,756,000	2,953,000	3,149,000	3,149,000	3,250,000	3,250,000	1,457,000	1,565,000	1,673,000	1,673,000	1,720,000	1,720,000
Yugoslavia (a) ..	358,000	407,000	350,000	421,000	401,000	372,000	143,000	163,000	140,000	168,000	160,000	149,000
Algeria	48,085	42,000	37,154	59,994	55,978	40,729	22,000	19,000	17,000	28,000	26,000	19,000
Morocco	13,855	20,417	22,777	20,885	18,029	14,661	5,000	7,000	7,000	6,000	5,000	4,000
South Africa .. .	439,751	434,030	411,943	425,647	421,532	473,587	176,000	174,000	152,000	164,000	158,000	179,000
United States (b) ..	987,309	915,890	824,800	847,493	874,957	872,414	398,519	379,046	343,566	353,831	353,645	355,512
China (c)	984,000	1,083,000	1,181,000	1,279,000	1,480,000	1,480,000	443,000	492,000	531,000	575,000	665,000	665,000
Formosa	46,717	44,772	46,021	45,592	38,640	41,342	17,500	16,800	17,300	17,100	14,500	15,500
Japan (d)	2,476,924	2,539,396	2,514,762	2,728,646	2,925,000	n.a.	1,132,112	1,170,121	1,163,690	1,261,439	1,350,000	n.a.
Korea (South) .. .	723	—	37	59	168	21,834	300	—	17	27	n.a.	n.a.
Korea (North) (c) ..	295,000	344,000	394,000	415,000	445,000	445,000	118,000	138,000	157,000	167,000	177,000	177,000
Philippine Republic ..	50,776	55,409	57,138	43,218	103,630	113,000	24,000	27,000	27,000	20,000	48,000	51,000
Turkey	96,863	105,389	95,549	111,307	130,072	170,789	46,000	51,000	46,000	51,000	60,000	79,000
TOTAL*	16,300,000	16,900,000	16,600,000	17,600,000	18,200,000	18,000,000	8,200,000	8,400,000	8,400,000	8,700,000	9,200,000	9,000,000
WORLD'S TOTAL*	17,900,000	18,400,000	18,200,000	18,900,000	19,800,000	20,000,000	8,200,000	8,400,000	8,400,000	8,700,000	9,200,000	9,000,000

*Including an estimate for pyrites produced in Cuba but excluding pyrites known to have been produced in Brazil.

(a) Concentrates.

(b) Including by-product pyrites.

(c) United States Bureau of Mines' estimate.

(d) Including pyrrhotite.

EXPORTS OF PYRITES

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Canada (a)	(£316,927)	(£297,827)	(£310,557)	(£291,585)	(£324,653)	(£325,373)
Cyprus—						
Iron pyrites	822,263	790,020	748,786	724,138	701,162	735,022
Cupreous pyrites	138,477	105,622	103,848	86,128	173,513	161,653
OTHER COUNTRIES						
Austria	18,285	3,925	—	131	—	—
Belgium-Luxemburg						
E.U.	828	—	—	—	929	3
Finland—						
Concentrate	68,047	69,889	53,761	77,458	61,653	50,421
Germany (Federal)	591	1	12	32	81	262
Greece	16,643	46,710	r 43,300	56,577	7,736	5,935
Italy—						
Iron pyrites	} 223,990	155,768	100,245	46,804	51,739	51,475
Cupreous pyrites						
Norway	431,799	550,880	636,594	622,815	576,702	546,023
Poland	n.a.	n.a.	n.a.	30,960	8,632	38,926
Portugal—						
Iron pyrites	260,980	287,469	269,668	289,552	313,599	268,218
Cupreous pyrites	2,241	2,102	2,153	172	—	—
Spain—						
Iron pyrites	} 1,017,327	1,006,004	1,015,116	1,198,642	1,149,427	813,913
Cupreous pyrites						
Sweden	40,169	23,511	13,833	20,907	13,009	40,674
U.S.S.R.	652,500	768,700	1,000,000	927,100	1,213,000	1,478,000
Yugoslavia	271,474	289,346	276,646	107,723	159,041	187,147
Algeria	31,953	34,144	32,381	31,642	35,313	n.a.
Morocco	n.a.	177	5,948	n.a.	3,889	n.a.
Turkey	89,988	108,938	84,145	94,139	121,213	89,740

(a) Sulphur in ores (pyrite).

IMPORTS OF PYRITES

Long tons

Importing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom ..	267,719	281,527	200,323	284,306	224,340	259,233
Irish Republic	15,913	2,638	1,381	3,060	2,171	1,950
OTHER COUNTRIES						
Austria	53,094	30,126	24,409	29,616	27,243	26,047
Belgium-Luxemburg ..						
E.U.	331,394	313,586	297,329	277,572	263,844	259,844
Czechoslovakia (a) ..	43,000	68,000	108,000	129,000	118,000	48,000
Denmark	124,156	134,388	130,380	132,535	140,465	182,105
France	464,090	432,379	389,375	363,157	345,434	333,629
Germany (Federal) ..	1,263,767	1,315,889	1,476,010	1,576,463	1,523,811	1,417,052
Germany (East) (a) ..	108,376	92,638	88,653	138,223	109,877	106,102
Hungary	100,077	91,660	122,248	204,246	143,000	152,000
Italy	523,877	679,026	754,010	840,611	916,883	943,346
Netherlands	289,661	245,552	237,071	252,535	207,479	265,572
Poland	59,700	n.a.	23,900	n.a.	n.a.	n.a.
Sweden	92,191	82,120	62,922	29,464	81,403	122,769
Switzerland	53,872	34,450	36,735	31,414	47,354	45,583
Egypt	50,215	33,498	159,049	58,273	44,746	91,874
South Africa	n.a.	n.a.	n.a.	7,391	—	7,487
Tunisia	6,520	3,861	12,750	16,890	3,727	7,857
United States	81,604	301,899	194,171	n.a.	n.a.	n.a.
Japan	n.a.	n.a.	n.a.	n.a.	28,975	261,370

(a) S content.

RARE EARTH AND THORIUM MINERALS
PRODUCTION OF RARE EARTH AND THORIUM MINERALS

Long tons

Producing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Nigeria—						
Monazite	7	10	11	12	126	35
Thorite (c)	—	—	—	—	1	—
Ceylon—						
Monazite	213	—	—	23	(a) 125	35
India—						
Monazite (d)	1,031	2,598	2,368	2,060	(e) 2,500	2,300
Malaysia (West) (a)—						
Monazite	696	623	885	303	695	1,022
Australia (b)—						
High-grade concentrates	1,463	772	1,875	1,848	2,165	1,781
OTHER COUNTRIES						
Malagasy Republic—						
Monazite	448	627	605	949	1,068	837
Uranothorianite (f)	404	500	473	551	505	413
South Africa—						
Monazite	—	(g) 4,755	(g) 2,054	—	—	—
Gadolinite	—	—	1	—	—	—
Brazil—						
Monazite	301	374	513	654	588	734
Indonesia—						
Monazite	99	137	151	138	25	n.a.
Korea (South)—						
Monazite	1	674	—	—	—	—

Rare earth and thorium minerals are also produced in the United States and thorium obtained as a by-product during the treatment of uranium in Canada.

(a) Exports.

(b) Monazite content. Estimated.

(c) Between 5% and 6% ThO₂.

(d) Years ended March 31 of year following that stated. Source United States Bureau of Mines.

(e) Estimated.

(f) Containing an average of 60% Th.

(g) ThO₂ content as follows: 1962—5.4%; 1963—5.76%.

EXPORTS OF RARE EARTH MINERALS, ETC.

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Ceylon—						
Monazite	—	—	300	—	125	<i>n.a.</i>
India—						
Monazite	<i>n.a.</i>	<i>n.a.</i>	—	475	1,706	<i>n.a.</i>
Malaysia (West)—						
Monazite	696	623	885	303	695	1,022
Australia—						
Concentrates	1,802	1,460	2,313	2,041	2,240	2,092
OTHER COUNTRIES						
Austria—						
Salts of rare earth minerals (a)	266	143	201	—	32	—
France—						
Salts of rare earth minerals	207	888	275	249	302	450
Germany (Federal)—						
Compounds of rare earth minerals	20	838	13	59	26	378
Malagasy Republic—						
Monazite	429	569	683	845	1,021	898
Uranothorianite	394	535	474	610	414	353
United States—						
Cerium ores, metals, etc.	3	2	57	731	<i>n.a.</i>	<i>n.a.</i>
Thorium ore, concentrates and compounds	46	489	21	32	18	54
Brazil—						
Cerium chloride	1,369	906	851	875	4,244	1,573

(a) Including uranium salts.

IMPORTS OF RARE EARTH MINERALS, ETC.

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Canada—						
Thorium and cerium salts	(£10,892)	(£7,789)	(£2,570)	n.a.	n.a.	n.a.
OTHER COUNTRIES						
Austria—						
Salts of rare earth minerals (a)	974	1,128	1,042	934	—	—
France—						
Rare earth minerals ..	1,425	1,779	1,040	1,465	1,382	1,376
Salts of rare earth minerals	626	42	45	32	96	104
Germany (Federal)—						
Rare earth minerals ..	—	25	20	5	—	—
Salts of rare earth minerals (a)	931	838	723	529	774	4,219
United States—						
Monazite sand and other thorium ore	2,691	6,830	5,741	1,879	1,811	n.a.

Rare earth minerals are also imported into the United Kingdom and Canada but statistics of imports are not recorded in the trade returns of these countries.

(a) Including uranium salts.

SALT
PRODUCTION OF SALT

Long tons

Producing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Rock-salt	285,000	477,000	752,000	693,000	723,000	1,030,000
Brine-salt	1,189,354	1,259,960	1,388,788	1,347,000	1,428,000	1,455,000
Salt in brine (a) ..	4,194,854	4,243,786	4,251,621	4,598,000	4,738,000	4,732,000
Malta—						
Sea-salt	1,720	1,846	1,605	2,077	1,976	3,000
Ghana	18,000	19,000	20,000	30,000	27,000	35,000
Kenya	22,650	18,568	32,683	40,056	50,741	53,333
Mauritius—						
Sea-salt	4,000	3,700	4,100	4,300	4,100	4,100
Nigeria	340	326	276	548	890	834
Tanzania	25,726	29,377	31,908	35,251	(e) 38,429	41,340
Uganda	6,493	3,159	3,072	2,849	5,429	5,461
Zambia	—	6	—	—	—	—
Canada—						
Rock-salt	1,204,221	1,667,486	1,563,782	1,674,266	2,298,236	2,034,304
Other salt (c)	1,745,602	1,604,605	1,738,813	1,881,346	1,948,526	2,059,166
West Indies—						
Sea-salt—						
Bahamas (d)	168,643	154,571	105,857	220,786	413,714	520,000
St. Kitts (d)	722	1,332	783	2,777	4,009	5,505
Virgin Islands (d) ..	2	6	n.a.	3	4	2
Turks and Caicos Islands	29,651	(b) 30,000	(b) 25,000	n.a.	3,000	n.a.
Aden	84,000	77,000	85,000	r 79,000	71,000	71,000
Ceylon	34,427	45,796	22,531	50,698	77,203	63,467
Cyprus	2,055	5,663	6,848	—	5,003	3,949
India—						
Rock-salt	4,232	4,400	3,300	2,800	2,800	} 4,437,000
Other salt	3,421,400	3,820,300	4,469,000	4,570,600	4,625,400	
Goa	n.a.	10,000	n.a.	n.a.	n.a.	n.a.
Pakistan—						
Rock-salt	216,387	187,902	244,645	219,277	268,815	259,767
Sea-salt	183,580	252,484	213,733	183,990	215,525	207,993
Australia	508,657	536,019	581,537	545,491	654,533	644,497
New Zealand	5,017	8,900	11,000	21,332	34,170	35,450
TOTAL	13,300,000	14,500,000	15,600,000	16,200,000	17,600,000	17,700,000
OTHER COUNTRIES						
Austria—						
Rock-salt	3,316	5,033	5,005	1,359	969	802
Evaporated salt	136,517	144,366	163,444	164,168	182,668	182,525
Bulgaria	124,000	146,000	104,000	81,000	123,000	n.a.
Czechoslovakia	184,985	178,980	184,000	181,000	188,000	n.a.
France—						
Rock-salt (incl. refined)	657,694	677,365	749,183	833,598	1,052,947	926,000
Salt in brine	2,252,198	2,266,430	2,291,092	2,356,783	2,217,926	2,421,000
Sea-salt	874,210	1,247,267	595,167	778,021	1,108,290	1,047,000
Germany (Federal)—						
Rock-salt	4,277,614	4,487,751	5,150,981	5,318,420	5,024,379	5,041,156
Brine-salt	335,744	340,491	357,515	392,518	431,110	564,097
Salt in brine	n.a.	503,368	n.a.	542,889	1,140,449	1,189,355

(a) Used for purposes other than salt-making.

(b) Estimated.

(c) Including salt in brine.

(d) Exports.

(e) Exports and local sales.

PRODUCTION OF SALT (cont.)

Long tons

Producing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES (cont.)						
Germany (East)	1,968,000	2,000,000	2,046,000	2,046,000	1,860,000	(a)2,000,000
Greece—						
Sea-salt	117,352	112,751	81,658	r 100,565	87,249	n.a.
Italy—						
Rock-salt and brine-salt	1,599,220	1,703,942	1,858,223	r 1,999,792	2,095,174	2,083,741
Sea-salt	1,173,226	1,116,054	n.a.	n.a.	n.a.	n.a.
Netherlands (brine-salt)	1,096,578	1,242,000	1,456,000	1,571,000	1,680,600	1,828,000
Poland—						
Rock-salt	598,000	598,000	635,000	650,000	663,000	750,000
Brine-salt	232,000	238,000	242,000	265,000	281,000	287,000
Other salt	1,188,000	1,205,000	1,221,000	1,291,000	1,316,000	1,334,000
Portugal—						
Rock-salt	71,689	72,631	77,723	87,632	88,162	95,991
Sea-salt	262,610	309,836	263,527	228,325	402,989	333,325
Roumania	1,309,000	1,454,000	1,611,000	1,780,000	1,984,000	2,014,000
Spain—						
Rock-salt	604,591	616,200	688,344	721,812	746,000	n.a.
Sea-salt	937,706	965,600	951,300	1,133,273	n.a.	n.a.
Other salt	17,871	18,036	13,976	18,497	n.a.	n.a.
Switzerland	154,793	165,291	187,704	178,703	226,730	187,057
U.S.S.R.	(a)7,400,000	8,400,000	9,409,000	9,940,000	(a)9,400,000	(a)9,400,000
Yugoslavia—						
Sea-salt	44,000	86,000	32,000	52,000	39,000	} 162,000
Evaporated salt.. ..	114,000	126,000	132,000	129,000	131,000	
Algeria—						
Brine-salt and sea-salt..	126,325	116,000	122,000	114,000	n.a.	n.a.
Angola	65,754	59,413	67,520	79,813	58,679	60,298
Canary Islands (sea-salt)	14,074	14,112	17,673	20,130	n.a.	n.a.
Cape Verde Islands	17,089	26,437	28,666	31,072	39,000	n.a.
Congo Republic(rock-salt)	551	n.a.	n.a.	n.a.	n.a.	n.a.
Egypt	509,051	551,329	385,860	663,901	486,317	617,064
Ethiopia (d)	149,000	195,000	251,000	r 202,000	185,000	(a) 185,000
Libya (sea-salt)	12,000	14,000	19,000	12,000	12,000	49,000
Morocco	20,866	27,135	36,752	59,750	33,746	38,186
Mozambique—						
Rock-salt	40	40	40	n.a.	30	n.a.
Other salt	n.a.	27,071	25,859	n.a.	n.a.	n.a.
Senegal	42,759	47,442	59,033	55,220	50,091	59,788
South Africa	204,647	251,081	194,656	295,378	325,496	309,938
South West Africa—						
Rock-salt	4,296	4,379	5,010	5,000	4,445	4,853
Other salt	50,000	70,000	59,000	92,000	91,100	57,573
Sudan	52,267	56,956	36,418	59,000	51,000	42,000
Tunisia (sea-salt)	158,000	167,300	303,254	210,618	348,215	322,838
Costa Rica (b)	10,000	10,000	10,000	10,000	10,000	10,000
Dominican Republic—						
Rock-salt	74,506	31,704	28,854	2,185	20,300	19,322
Sea-salt	19,782	9,740	n.a.	28,365	25,528	24,252
Guatemala (sea-salt)	15,425	16,583	18,600	17,800	14,740	19,330
Haiti (b)	10,000	10,000	10,000	10,000	10,000	10,000
Honduras	(b) 13,000	10,000	(b) 10,000	(b) 10,000	(b) 10,000	(b) 10,000
Mexico	1,046,000	1,271,000	1,205,000	1,754,000	2,165,000	2,360,000
Netherlands Antilles	(b) 150	(c) 119	(c) 106	(c) 47	n.a.	n.a.
Nicaragua (sea-salt)	11,929	12,531	16,234	16,767	17,605	17,911
Panama (sea-salt)	7,607	10,333	9,923	10,846	11,000	9,000
Salvador (sea-salt)	30,553	(b) 30,000	(b) 30,000	(b) 30,000	19,730	22,758

(a) United States Bureau of Mines' estimate.

(b) Estimated.

(c) Exports.

(d) Years ended September 10 of year stated.

PRODUCTION OF SALT (cont.)

Long tons

Producing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
United States (e)—						
Rock-salt	5,749,000	6,898,000	7,451,000	7,637,000	8,759,000	9,000,000
Salt in brine	13,287,000	14,677,000	15,647,000	16,399,000	17,814,000	19,061,000
Evaporated salt.. ..	3,917,000	4,146,000	4,260,000	4,198,000	4,397,000	4,496,000
Argentina—						
Rock-salt	1,900	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	3,344	<i>n.a.</i>
Other salt	409,017	505,946	170,000	385,203	712,977	840,000
Brazil (sea-salt)	874,902	1,220,812	1,097,490	742,015	1,180,732	1,417,971
Chile	45,384	50,207	47,480	90,529	55,448	199,480
Colombia—						
Rock-salt	262,368	262,030	258,770	284,396	275,465	278,752
Sea-salt	68,610	38,602	33,622	49,855	45,455	119,123
Ecuador (sea-salt)	31,000	26,024	(a) 30,000	(a) 30,000	(a) 30,000	34,000
Peru—						
Rock-salt	8,922	10,678	8,895	8,970	9,050	<i>n.a.</i>
Sea-salt	69,590	75,489	72,098	77,410	78,209	<i>n.a.</i>
Brine-salt	7,452	5,996	5,043	10,263	5,833	<i>n.a.</i>
Venezuela (sea-salt)	144,618	142,512	75,200	199,493	169,051	146,407
Afghanistan (d)	22,400	30,500	r 30,000	r 30,000	37,000	37,000
Burma—						
Sea-salt	123,242	151,971	} 158,000	125,000	130,000	a)(b)130,000
Brine-salt	1,304	1,267				
China (a)	11,000,000	10,000,000	10,000,000	10,000,000	13,000,000	13,000,000
Formosa (sea-salt)	424,823	585,322	616,233	592,668	551,199	404,596
Cambodia	54,000	(a)(b)39,000	r 59,000	r(a)(b)58,000	<i>n.a.</i>	<i>n.a.</i>
Indonesia	142,376	299,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	211,482
Iran (d)	143,000	265,000	340,000	217,000	221,000	<i>n.a.</i>
Iraq (c)	35,500	37,471	30,000	r(a)(b)27,000	(a)(b)60,000	(a)(b)54,000
Israel	43,412	44,302	50,799	41,883	53,925	56,727
Japan—						
Government-licensed plants	814,938	865,000	735,000	879,000	835,000	837,000
Jordan (brine-salt)	17,486	17,799	17,444	19,614	20,115	18,435
Korea (North)	386,000	414,000	a)(b)450,000	a)(b)400,000	a)(b)500,000	a)(b)500,000
Korea (South)	119,823	381,947	226,454	379,516	658,310	387,281
Lebanon (sea-salt) (a)	10,000	16,000	18,000	20,000	20,000	24,000
Philippine Republic—						
Sea-salt	91,818	94,155	69,014	45,891	221,000	140,000
Syria	7,000	18,000	15,000	r 16,000	21,000	(a)(b)20,000
Thailand	191,000	254,000	262,000	187,000	185,000	a)(b)200,000
Turkey—						
Rock-salt	29,000	28,000	29,000	32,000	34,000	31,000
Lake and spring salt	} 234,000	} 396,000	} 362,000	} 317,000	} 451,000	} 249,000
Sea-salt						
Vietnam (North)	104,000	142,000	126,000	a)(b)150,000	a)(b)150,000	a)(b)150,000
Vietnam (South)	98,000	189,603	r 193,135	r 186,157	158,860	<i>n.a.</i>
Yemen	118,000	147,000	a)(b)100,000	(a)(b)35,000	—	<i>n.a.</i>
TOTAL*	70,000,000	r76,000,000	77,000,000	r82,000,000	90,000,000	93,000,000
WORLD'S TOTAL*	83,000,000	r91,000,000	93,000,000	r98,000,000	108,000,000	111,000,000

*Salt is known to have been produced in many countries for which statistics are not available. An allowance has been made for these in the total.

(a) Estimated.

(b) United States Bureau of Mines.

(c) Years ended March 31 of year following that stated.

(d) Years ended March 20 of year following that stated.

(e) Sold or used by producers.

EXPORTS OF SALT

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom ..	323,755	319,928	362,866	357,127	399,064	447,101
Kenya	752	681	85	12	18	162
Tanzania	12,246	9,654	12,553	10,146	14,656	12,294
Uganda	1,127	660	565	546	441	1,144
Canada	2,526,016	3,560,418	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Bahamas (d)	168,643	154,571	105,857	220,786	413,714	520,000
St. Kitts	722	1,332	783	2,777	3,716	5,505
Virgin Islands	2	6	5	3	4	2
Turks and Caicos Islands	16,151	21,098	26,559	8,271	6,535	<i>n.a.</i>
Aden	116,379	99,858	72,574	93,021	47,939	74,237
India (c)	50,457	167,832	191,611	278,932	269,521	234,483
Malaysia (West)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	166	208
Pakistan	121,591	89,304	56,151	185,876	<i>n.a.</i>	<i>n.a.</i>
Singapore	4,837	4,745	1,177	4,527	3,747	4,051
Australia (a)—						
Refined salt	1,727	95	253	203	382	—
Other salt	31,242	73,702	74,606	107,144	111,289	101,313
OTHER COUNTRIES						
Austria	1,372	2,430	1,244	3	1,201	202
Belgium-Luxemburg						
E.U.	238	648	526	1,747	3,394	4,183
Denmark	481	298	235	245	351	13,223
France	96,538	103,097	135,101	135,083	92,587	115,816
Germany (Federal)	688,812	780,216	876,238	857,140	946,191	930,263
Italy	42,400	28,365	74,266	56,443	56,876	18,403
Netherlands—						
Common salt	507	—	—	—	—	—
Refined salt	651,618	724,458	849,511	943,986	963,759	1,039,909
Norway—						
Common salt	6,477	3,000	5,932	4,621	3,895	4,125
Refined salt	2	2	—	—	—	—
Poland	130,596	137,000	141,000	169,000	116,511	169,517
Portugal	409	2,269	81	8	16	21
Roumania	280,700	287,200	304,300	381,100	470,800	423,000
Spain	427,791	503,206	457,880	329,155	397,630	309,404
Sweden	53	292	1,225	32	1,316	300
Switzerland	1	1	2,569	3,282	3,137	2,046
U.S.S.R.	112,900	131,800	136,000	107,200	161,900	191,900
Angola	24,663	22,506	23,958	33,401	24,321	33,971
Cape Verde Islands	35,952	30,766	32,346	35,145	28,086	31,341
Egypt	352,315	205,544	160,130	327,201	225,981	270,000
Ethiopia	(b) 53,173	119,994	57,276	78,417	78,247	<i>n.a.</i>
Malagasy Republic	2,335	1,307	2,364	1,607	2,052	2,083
Mozambique	4,079	4,296	3,378	3,692	7,230	8,783
Morocco	—	13	10	12	3	<i>n.a.</i>
Senegal	10,519	12,212	44,685	11,725	6,061	7,843
South Africa	19,229	24,725	23,494	29,707	30,890	33,072
South West Africa—						
Rock-salt	2,093	1,895	2,271	2,882	2,513	2,461
Coarse salt	36,704	35,854	42,558	50,930	44,988	51,909
Other salt	1,487	1,104	1,512	1,409	1,031	2,166
Sudan	923	516	506	981	773	1,684
Tunisia	146,600	128,764	263,206	191,600	372,318	271,311
Dominican Republic	57,592	26,162	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Honduras	939	1,709	3,139	5,816	6,234	6,372
Mexico	707,310	1,047,209	990,573	1,428,287	1,575,789	836,137

(a) Years ended June 30 of that stated.

(b) Year ended September 10 of that stated.

(c) Years ending March 31 following that stated.

(d) Converted from bushels at the rate of 28 bushels = 1 long ton.

EXPORTS OF SALT (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Netherlands Antilles ..	102	119	106	47	—	—
Salvador	1,146	1,920	1,888	3,026	7,162	4,737
United States	573,184	593,931	251,014	530,641	615,552	591,563
Argentina	23,598	37,198	56,498	66,430	88,057	58,937
Peru	472	1,011	578	336	118	179
Burma	9,000	9,240	10,000	5,625	—	n.a.
Formosa	289,089	233,137	278,959	392,420	297,649	128,014
Iran (a)	1,746	1,954	2,460	3,337	3,549	2,015
Japan	6	20	39	13	7	4,732
Thailand.. .. .	187,071	132,874	114,933	122,903	80,495	83,517
Turkey	78,487	52,611	57,809	126,902	121,213	51,040
Vietnam (South) ..	21,702	35,677	20,270	38,433	4,921	n.a.

(a) Years ended March 20 of year following that stated.

IMPORTS OF SALT

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Salt for use of fisheries ..	35,046	42,055	170,399	30,975	53,119	54,290
Other salt	<i>n.a.</i>	<i>n.a.</i>	5,575	5,864	5,573	6,505
Channel Islands	631	535	593	641	548	420
Malta—						
Refined salt	(£5,137)	(£3,774)	(£4,055)	(£4,863)	(£6,546)	(£5,972)
Other salt	508	—	5	236	360	420
Gambia	403	325	94	254	98	120
Ghana	7,930	353	2,652	2,079	8,418	706
Kenya	3,078	6,748	9,658	11,889	5,461	4,930
Malawi	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	5,973	9,178	<i>n.a.</i>
Mauritius	74	35	158	19	148	56
Nigeria	110,913	111,449	124,005	131,522	127,993	123,557
Rhodesia (a)	36,208	39,858	38,570	28,750	38,973	<i>n.a.</i>
Seychelles	416	216	343	196	428	233
Sierra Leone	7,230	6,361	8,720	8,859	6,881	10,788
Tanzania	1,575	6,961	4,130	3,717	4,403	4,368
Uganda	18,826	23,739	25,838	26,553	34,744	22,165
Zambia	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	10,136	10,720	12,166
Canada—						
Salt for use of fisheries ..	54,031	42,564	59,674	40,772	46,291	} 454,954
Refined salt	1,226	1,060	—	—	—	
Other salt	122,747	175,871	237,273	321,347	347,995	
Antigua	213	178	200	286	190	256
Barbados—						
Rock and coarse salt	51	53	59	} (c) 7,543	1,951	6,992
Refined salt	2,120	2,098	648			
Bermuda	172	132	192	183	177	166
British Honduras	514	501	613	469	567	582
Dominica	258	554	363	263	242	317
Grenada	520	528	585	293	2,388	567
Jamaica—						
Rock-salt	48	36	56	192	105	63
Other salt	11,392	10,865	11,360	11,209	10,920	11,370
Montserrat	37	38	27	63	<i>n.a.</i>	<i>n.a.</i>
St. Kitts	94	96	82	55	996	11,756
St. Lucia—						
Common salt	719	854	474	339	595	747
Refined salt	38	78	14	2	14	40
St. Vincent—						
Unrefined salt	95	78	150	<i>n.a.</i>	6	19
Refined salt	274	315	334	<i>n.a.</i>	424	435
Trinidad and Tobago—						
Rock and coarse salt	2,217	1,024	2,878	2,373	2,137	2,339
Refined salt	3,949	5,114	3,988	4,796	6,209	7,421
Virgin Islands	7	9	9	12	14	21
Guyana—						
Rock and coarse salt	16	71	<i>n.a.</i>	17	21	(c) 2
Refined salt, etc.	2,669	2,806	<i>n.a.</i>	2,546	2,705	2,702
Aden	67	45	29	—	—	—
Brunei	386	335	3,273	336	1,006	734
Ceylon—						
Refined salt	66	28	41	72	50	80
Other salt	—	54,919	36,632	32,748	39,132	4,113
Cyprus	262	211	270	227	245	314
Hong Kong	35,652	38,058	33,664	32,652	30,803	29,465
India (b)	8	1,902	28	3,533	105	—
Malaysia (West)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	63,898	71,640
Pakistan	5,775	8,910	1,915	2,601	<i>n.a.</i>	<i>n.a.</i>
Sabah	3,054	2,916	3,288	8,354	3,180	2,965

(a) Figures for years 1961 to 1963 relate to Rhodesia and Nyasaland.

(b) Years ended March 31 following that stated.

(c) Excess of re-exports.

IMPORTS OF SALT (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
<i>(cont.)</i>						
Sarawak	5,115	5,036	6,117	5,008	5,588	5,660
Singapore	21,811	23,689	22,137	20,531	19,753	26,826
Australia (a)—						
Refined salt	923	366	11	16	45	77
Other salt	14,730	7,766	7,203	7,056	6,523	7,012
Fiji	1,795	2,066	2,308	1,767	1,514	2,173
New Guinea (a)	1,219	1,386	1,352	1,695	1,289	1,566
New Hebrides	162	164	276	207	200	221
New Zealand	53,899	51,759	57,565	(a) 62,429	(a) 50,995	(a) 50,456
Papua (a)	310	348	356	401	408	462
Solomon Islands	65	54	65	80	65	84
Western Samoa	360	352	360	280	263	386
Irish Republic—						
Refined salt	4,112	4,393	4,515	4,403	5,224	4,890
Other salt	32,817	36,841	34,991	32,874	35,765	38,913
OTHER COUNTRIES						
Austria—						
Common salt	67	102	364	90	62	767
Belgium-Luxemburg						
E.U.—						
Common salt	514,646	585,304	647,712	701,448	672,069	722,187
Refined salt	85,736	94,926	113,231	109,695	108,668	111,036
Denmark—						
Rock-salt	62,963	68,436	89,707	82,869	101,305	153,473
Refined salt	76,188	76,248	78,079	80,291	88,687	84,071
Faroe Islands	16,241	19,605	33,292	25,453	34,919	20,898
Finland	219,893	270,100	263,110	302,303	320,728	370,071
France	68,269	76,521	61,720	131,660	115,875	57,141
Germany (Federal)	15,091	24,759	55,520	94,592	92,368	98,659
Iceland—						
Common salt	47,785	56,147	53,806	52,101	50,942	42,945
Refined salt	172	207	238	289	295	310
Italy	137,441	r 141,438	54,969	r 36,958	2,143	379
Netherlands—						
Rock-salt	12,744	9,559	26,886	8,968	11,880	46,794
Sea-salt, etc.						
Refined salt	17,380	14,142	34,952	25,466	23,150	
Norway—						
Common salt	132,812	141,186	102,332	91,014	126,176	136,833
Refined salt	91,286	101,625	157,581	157,259	164,945	164,724
Portugal	3,028	5,776	11,495	9,535	27,620	20,324
Spain	—	—	105	389	336	638
Sweden	544,803	586,971	628,295	661,591	732,748	819,887
Switzerland	1,174	774	2,791	829	1,103	1,104
Yugoslavia	131,876	27,722	88,186	104,255	159,251	163,984
Cameroun	13,878	12,482	11,221	16,620	15,672	n.a.
Central African						
Republic	(b)	(b)	(b)	3,754	2,104	5,296
Congo (Republic of)	(b)	(b)	(b)	2,701	2,109	3,024
Dahomey	1,548	944	1,121	1,236	2,285	2,848
Egypt	4	11	n.a.	n.a.	n.a.	n.a.
Equatorial African						
Community	8,881	8,829	13,868	(d)	(d)	(d)
Ethiopia	(c) 172	n.a.	398	126	n.a.	n.a.
Gabon	(b)	(b)	(b)	1,327	1,746	2,012
Ivory Coast	17,502	5,629	24,937	22,673	18,683	22,111

(a) Years ended June 30 of that stated.

(c) Year ended September 10 of that stated.

(b) Included in Equatorial African Community.

(d) See Central African Republic, Congo (Republic of) and Gabon.

IMPORTS OF SALT (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Liberia	674	3,317	6,669	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Malagasy Republic	315	3,408	526	626	910	549
Mali	8,003	15,007	17,088	17,673	14,919	20,504
Morocco	602	584	1,921	5,388	235	<i>n.a.</i>
Mozambique	3,075	1,903	3,746	2,332	1,509	1,341
Niger	4,401	16,839	5,229	6,598	4,962	<i>n.a.</i>
Reunion	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,611	2,139	2,111
Senegal	160	103	177	87	73	102
South Africa	3,005	2,284	2,419	2,418	2,082	1,732
Sudan	53	77	59	1,211	58	29
Togo	8,099	9,103	10,761	10,692	6,877	6,727
Upper Volta	5,168	7,315	10,858	12,147	7,549	<i>n.a.</i>
Costa Rica	141	95	103	272	254	1,454
French West Indies—						
Guadeloupe	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,168	898
Martinique	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	2,507	2,225
Greenland	8,757	7,356	7,555	3,301	3,699	7,163
Guatemala	245	142	227	1,617	4,598	2,058
Honduras	968	1,876	1,755	1,620	2,334	140
Mexico	1,187	862	1,220	1,027	4,812	1,204
Netherlands Antilles	523	619	523	577	622	623
Nicaragua	677	681	580	1,939	2,767	3,963
St. Pierre and Miquelon	2,264	2,414	232	2,118	<i>n.a.</i>	1,551
Salvador	983	1,724	2,764	4,202	4,182	2,148
United States	937,575	1,226,588	1,353,713	2,089,176	1,575,828	1,626,000
Bolivia	163	199	161	120	186	<i>n.a.</i>
Brazil	26	37	175	51,395	245,568	194,153
Colombia	3	3	7	7	4	15
French Guiana	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	277	306	228
Peru	91	2,420	3,439	3,271	4,258	2,645
Surinam	938	1,000	1,195	1,181	<i>n.a.</i>	<i>n.a.</i>
Uruguay	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	57,804	50,072
Burma	957	1,779	1,451	816	812	<i>n.a.</i>
Iran (a)	98	119	82	78	113	185
Iraq	90	377	55	61	<i>n.a.</i>	<i>n.a.</i>
Japan	2,366,506	2,610,880	2,901,189	3,583,607	3,487,467	3,771,232
Laos	1,341	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Lebanon	5,109	1,876	1,101	1,439	1,811	412
Syria	<i>n.a.</i>	17,818	23,109	—	15,394	28,845
Philippine Republic—						
Crude	3,971	582	553	690	22,228	<i>n.a.</i>
Refined	4,235	239	147	185	169	<i>n.a.</i>
French Polynesia	324	402	—	396	557	320
New Caledonia	446	419	474	551	431	378

(a) Years ended March 20 of year following that stated.

SELENIUM
PRODUCTION OF SELENIUM

Lb. avdp.

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Zambia (a)	38,292	71,453	62,891	57,631	57,573	<i>n.a.</i>
Canada	430,612	487,066	468,772	465,746	512,077	521,163
OTHER COUNTRIES						
Belgium (b)	51,800	29,500	54,000	87,100	93,000	90,100
Finland	13,296	11,797	15,417	14,500	12,577	11,973
Sweden	213,471	155,060	156,222	181,540	176,209	144,041
Yugoslavia	1,872	3,986	4,120	8,439	17,441	(d) 18,000
Mexico	5,642	2,458	5,463	9,345	8,120	24,458
United States (c) ..	1,022,000	999,000	928,000	929,000	540,200	620,300
Peru	16,305	18,380	19,790	16,797	18,964	13,131
Japan	300,265	309,317	313,497	325,929	347,027	423,391
WORLD'S TOTAL ..	2,100,000	2,090,000	2,030,000	2,100,000	1,780,000	1,900,000

Selenium is also produced in Australia.

(a) Contained in copper slimes exported for treatment.

(b) Exports.

(c) Including selenium content of compounds and, during the year 1961, small quantities of secondary selenium.

(d) United States Bureau of Mines' estimate.

EXPORTS OF SELENIUM

Lb. avdp.

Exporting Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Zambia (a)	38,292	71,453	62,891	57,631	57,573	<i>n.a.</i>
Canada (b)	345,800	325,600	445,700	401,300	451,200	588,100
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.	51,800	29,500	54,000	87,100	93,000	90,100
Sweden	157,000	110,000	194,000	143,000	141,000	165,000
Peru	14,800	10,518	19,764	24,478	19,253	14,870
Japan	149,434	111,962	105,650	102,092	68,976	92,806

(a) Contained in copper slimes exported for treatment.

(b) Including salts.

IMPORTS OF SELENIUM

Lb. avdp.

Importing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom ..	258,372	241,330	276,167	321,938	360,866	419,015
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.	1,800	12,600	2,900	1,500	700	700
France	57,800	66,000	70,500	70,500	62,000	93,000
Germany (Federal) ..	261,200	160,300	230,400	203,500	231,900	323,000
Italy	r 47,500	r 50,841	46,738	r 61,593	38,600	38,140
Spain	n.a.	n.a.	9,572	14,533	16,557	14,306
Sweden	75,000	18,000	2,200	22,000	51,000	71,000
Yugoslavia	n.a.	n.a.	n.a.	n.a.	5,207	3,862
Morocco (b)	220	10,913	664	223	1,323	n.a.
United States (a) ..	127,482	160,389	339,000	215,098	234,645	260,028
Argentina	7,641	12,613	5,719	12,710	14,716	15,999
Brazil	9,811	9,520	9,019	4,740	3,719	17,117
Peru	214	569	225	677	862	1,466

(a) Including salts.

(b) Including tellurium.

SILLIMANITE, Etc.

PRODUCTION OF SILLIMANITE, ETC.

Long tons

Producing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Rhodesia—						
Kyanite	—	—	54	230	<i>n.a.</i>	<i>n.a.</i>
India—						
Kyanite	26,726	48,834	31,520	33,623	36,889	62,664
Sillimanite	7,985	8,125	11,311	12,167	11,098	10,124
Australia—						
Kyanite, sillimanite and andalusite (a) ..	1,787	2,637	3,515	2,634	2,554	2,664
OTHER COUNTRIES						
Spain—						
Sillimanite	—	—	454	1,275	<i>n.a.</i>	<i>n.a.</i>
Cameroun—						
Kyanite	5	<i>n.a.</i>	69	—	—	—
South Africa—						
Andalusite	6,934	18,048	9,850	13,752	21,573	21,146
Sillimanite	84,406	52,815	55,353	53,787	41,482	34,549
South West Africa—						
Kyanite	2,679	1,488	—	563	—	18
United States—						
Kyanite (b)	33,000	34,000	40,000	46,000	52,000	60,000
Argentina—						
Sillimanite	100	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Korea (South)—						
Andalusite	502	450	657	110	126	—

(a) In addition the following amounts of kaolinised sillimanite were produced (long tons): 1961—1,608; 1962—1,681; 1963—3,325; 1964—3,325; 1965—6,805; 1966—6,797.

(b) Estimated. In addition the following amounts of synthetic mullite were produced (long tons): 1961—13,212; 1962—16,983; 1963—26,418; 1964—32,239; 1965—35,758; 1966—44,242.

EXPORTS OF SILLIMANITE, ETC.

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
India—						
Kyanite	31,226	36,364	27,886	28,363	30,652	35,161
Sillimanite	5,406	4,819	5,376	8,633	5,695	6,232
OTHER COUNTRIES						
France—						
Kyanite, sillimanite, etc.						
Crude	22	183	505	346	371	239
Calcined	258	750	311	563	229	871

EXPORTS OF SILLIMANITE, ETC. (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (Federal)—						
Kyanite, sillimanite, etc.						
Crude	155	306	247	} 105	{ 120	76
Calcined	3	5	13			185	165
Italy—						
Kyanite, sillimanite, etc.						
Crude	} r 30	298	215	r 471	587	1,129
Calcined						
Netherlands—						
Kyanite, sillimanite, etc.	8,299	7,344	1,403	1,890	<i>n.a.</i>	<i>n.a.</i>
South-West Africa—						
Kyanite	2,714	1,944	—	546	206	27
South Africa—						
Andalusite	4,787	5,974	5,041	6,179	9,046	12,407
Sillimanite	86,849	39,552	37,571	46,926	39,805	28,238
United States—						
Kyanite, etc.	3,571	3,186	4,509	5,429	9,141	15,481
Japan—						
Sillimanite, etc. . .	<i>n.a.</i>	423	236	45	411	116

IMPORTS OF SILLIMANITE, ETC.*

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Kyanite, sillimanite, etc.	35,763	31,123	19,503	27,335	26,152	28,135
Canada—						
Kyanite, etc.	1,376	1,419	2,188	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Australia—						
Kyanite	1,045	9	870	1,939	1,000	1,332
Sillimanite	191	190	37	218	489	1,055
OTHER COUNTRIES						
France—						
Kyanite, sillimanite, etc.						
Crude	4,322	3,360	2,225	3,312	3,330	4,578
Calcined	1,717	1,193	1,554	1,482	2,036	1,578
Germany (Federal)—						
Kyanite, sillimanite, etc.						
Crude	18,775	20,879	20,716	15,128	17,647	18,795
Calcined	325	819	400	157	1,204	1,003
Greece—						
Kyanite, sillimanite, etc.	68	119	613	701	1,316	<i>n.a.</i>
Italy—						
Kyanite, sillimanite, etc.						
Crude	6,112	9,567	} 11,828	{ 8,720	} 4,244	11,246
Calcined	718	1,691					1,729
Netherlands—						
Kyanite, sillimanite, etc.	14,910	6,886	2,963	4,626	<i>n.a.</i>	<i>n.a.</i>
South Africa—						
Sillimanite	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	63	<i>n.a.</i>	<i>n.a.</i>
United States—						
Kyanite, sillimanite, etc.	4,835	4,715	2,343	2,131	3,613	3,040
Japan—						
Kyanite, sillimanite, etc.	(a) 38,700	18,638	18,258	32,474	26,448	25,079
Thailand—						
Kyanite, sillimanite, etc.	467	373	550	1,181	855	1,595

*These minerals are not separately recorded in the trade returns of several countries.

(a) Figures represent exports from certain producing countries only and are not necessarily complete.

SILVER
PRODUCTION OF SILVER
(Metal content)

Fine troy ounces

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom	4,744	514	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Botswana	39	33	21	1	—	—
Ghana (a)	7,027	4,443	4,827	<i>n.a.</i>	—	—
Kenya	40,731	50,160	52,422	47,702	26,785	19,003
Rhodesia	106,801	83,540	83,741	88,463	(a) 83,285	(f) 95,000
Swaziland	103	132	120	130	130	28
Tanzania	(d) 64,001	24,463	22,249	25,295	(a) 22,865	(a) 10,572
Uganda (a)	70	38	9	—	2	—
Zambia (b)	738,558	943,932	966,868	1,001,267	848,819	<i>n.a.</i>
Canada	31,381,977	30,422,972	29,932,003	29,902,611	32,272,464	33,362,208
India	191,000	138,700	128,300	152,200	168,300	21,900
Australia	13,059,166	17,553,691	19,641,925	18,426,990	17,280,839	18,474,828
Fiji	37,712	38,935	46,870	60,564	60,470	67,499
New Guinea	30,246	24,511	23,695	23,206	19,663	18,052
New Zealand	805	416	286	141	55	2
TOTAL	45,663,000	49,286,000	50,904,000	49,730,000	50,784,000	53,000,000
OTHER COUNTRIES						
Czechoslovakia (e)	1,600,000	2,400,000	2,400,000	2,400,000	2,400,000	2,400,000
Finland	456,155	r 380,504	579,967	607,906	582,186	520,103
France	1,128,800	898,970	730,110	969,440	1,401,200	2,008,300
Germany (Federal)	1,879,400	1,957,600	2,067,100	2,062,600	1,992,200	1,983,200
Germany (East) (e)	4,800,000	4,800,000	4,800,000	4,800,000	4,800,000	4,800,000
Greece	113,400	138,700	123,000	154,000	<i>n.a.</i>	<i>n.a.</i>
Italy	874,900	(h) 929,830	(h) 1,006,300	(h) 1,073,800	(h) 1,103,400	(h) 1,131,800
Portugal	48,260	52,920	48,420	48,770	63,020	354,600
Roumania (e)	600,000	600,000	600,000	600,000	600,000	600,000
Spain	4,526,600	5,684,120	4,955,200	2,300,000	<i>n.a.</i>	<i>n.a.</i>
Sweden	2,949,800	3,367,300	3,580,200	3,122,300	3,408,800	3,517,100
Yugoslavia (h)	3,454,080	3,750,930	3,791,920	4,036,880	4,148,060	3,651,420
Algeria (g)	300,000	280,000	260,000	290,000	340,000	<i>n.a.</i>
Congo Republic	3,457,880	1,595,500	1,097,200	1,480,300	1,538,400	1,851,400
Morocco	907,905	826,338	772,743	604,080	599,258	707,413
Mozambique	22	13	—	5	—	<i>n.a.</i>
South Africa	2,288,279	2,549,206	2,736,868	2,916,660	3,131,580	3,134,093
South West Africa (c)	1,061,043	1,468,932	1,312,670	1,161,220	1,637,554	<i>n.a.</i>
Tunisia	69,767	24,600	9,030	12,600	33,800	38,000
Guatemala	515,905	370,595	64,173	(i) 9,445	<i>n.a.</i>	<i>n.a.</i>
Haiti	61,424	94,761	107,022	92,057	77,488	50,690
Honduras	3,544,702	3,179,653	f 3,164,000	3,220,371	3,670,659	3,734,290
Mexico	40,350,000	41,220,000	42,760,000	41,716,260	40,332,080	41,990,000
Nicaragua	417,253	500,050	405,252	332,370	380,377	361,248
United States	34,794,456	36,798,000	35,243,000	36,334,000	39,806,033	43,668,988
Argentina	1,430,675	2,086,101	r 1,943,191	r 1,943,127	2,285,853	f 2,000,000
Bolivia (a)	3,901,010	3,759,129	4,869,037	4,810,973	4,114,427	5,124,828
Brazil	231,900	250,000	281,400	305,400	227,800	222,400
Chile	2,191,200	1,906,500	2,530,400	2,800,800	<i>n.a.</i>	<i>n.a.</i>

(a) Exports.

(b) Recovered from copper-refinery slimes.

(c) Accounted for by smelters.

(d) Including 38,372 fine troy ounces of silver in lead concentrates exported.

(e) "Metallgesellschaft" estimate.

(h) Refined.

(f) United States Bureau of Mines' estimate.

(i) Imports into the United States.

(g) Estimated.

PRODUCTION OF SILVER (cont.)

Fine troy ounces

Producing Country	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Colombia.. ..	127,943	131,599	106,280	130,353	113,451	106,757
Ecuador	101,200	127,700	121,800	117,126	69,966	76,710
Peru (c)	34,161,710	32,930,780	36,800,350	34,419,460	36,470,356	32,841,243
Burma	1,743,302	1,940,037	2,075,282	1,866,752	1,638,000	1,096,000
China (a)	800,000	800,000	800,000	800,000	800,000	800,000
Formosa	77,300	80,100	61,400	60,600	87,300	79,500
Indonesia.. ..	324,079	248,236	279,840	252,930	298,777	220,779
Japan	7,960,200	8,660,510	8,812,070	8,714,750	8,970,000	10,300,000
Korea (South) ..	460,430	412,910	444,000	404,460	434,000	500,100
Korea (North) (a) ..	500,000	500,000	500,000	500,000	500,000	600,000
Philippine Republic ..	812,793	675,570	767,249	907,504	933,938	1,162,889
TOTAL*	165,000,000	168,000,000	173,000,000	169,000,000	174,000,000	179,000,000
WORLD'S TOTAL* ..	210,000,000	218,000,000	224,000,000	218,000,000	225,000,000	232,000,000

*Totals exclude estimates for the U.S.S.R. for which no authentic figures are available. (In recent years Russian production has been estimated by the United States Bureau of Mines as 25-27,000,000 troy ounces.) An allowance, however, has been made for those other countries for which information is not yet available.

- (a) "Metallgesellschaft" estimate.
- (b) United States Bureau of Mines' estimate.
- (c) Recoverable.

EXPORTS OF SILVER*

(Metal content)

Fine troy ounces

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Bullion	11,394,246	19,794,688	15,886,206	14,218,779	20,949,074	18,989,021
Ghana—						
Bullion	7,027	4,443	4,827	<i>n.a.</i>	—	—
Kenya—						
Refined bullion.. ..	37,836	46,304	44,114	46,834	29,750	16,924
Rhodesia (b)—						
Bullion	132,547	83,913	85,077	96,280	83,285	<i>n.a.</i>
Tanzania—						
Concentrates	38,372	—	—	—	—	—
Refined bullion.. ..	25,860	23,959	22,521	25,329	22,865	10,572
Uganda—						
Bullion	70	38	9	—	2	—
Zambia—						
Bullion	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	40,000	2,539	40,000
Canada—						
Ore, concentrates, etc.	10,352,700	8,801,332	8,286,756	9,478,317	12,245,877	11,850,469
Bullion	10,783,414	9,445,094	10,834,629	10,583,439	11,268,110	12,221,142
Singapore—						
Bullion	704,000	1,711,000	1,130,000	405,000	373,000	628,000
Australia (a)—						
Ores and concentrates	2,723,394	2,748,415	3,045,752	3,766,059	2,740,289	2,959,026
Silver-lead bullion ..	4,299,192	3,260,286	5,233,426	5,502,534	3,367,282	5,887,644
Bullion, refined.. ..	1,756,486	732,480	239,166	4,536,735	1,366,813	247,428
do. unrefined	—	—	—	4,308	—	901
Beaten, rolled or drawn	88,141	7,005	4,429	33,027	89,101	178,218
Fiji—						
Bullion	—	1,840	2,560	(c) 60,260	(c) 60,640	(c) 67,783
New Guinea (a)—						
Bullion	28,961	27,438	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Irish Republic—						
Bullion	9,400	328,400	182,100	214,000	14,100	34,400
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Bullion and scrap ..	6,337,000	8,198,000	10,510,000	10,870,000	8,131,000	9,208,000
Denmark—						
Bullion	54,000	40,000	15,000	36,000	45,000	58,000
Beaten, rolled or drawn	2,000	—	1,000	13,000	12,000	4,000
France—						
Bullion and scrap ..	937,000	3,880,000	1,751,000	1,031,000	1,183,000	3,126,000
Beaten, rolled or drawn	693,000	557,000	1,096,000	3,077,000	4,904,000	2,026,000
Germany (Federal)—						
Bullion	18,621,000	19,377,000	21,873,000	18,066,000	15,751,000	14,416,000
Netherlands—						
Bullion and scrap ..	646,000	2,673,000	1,432,000	588,000	1,355,000	771,000
Beaten, rolled or drawn	304,000	295,000	233,000	284,000	345,000	211,000
Sweden—						
Bullion	1,382,000	1,591,000	1,222,000	482,000	390,000	386,000
Switzerland—						
Bullion	107,000	362,000	470,000	211,000	1,107,000	1,848,000
Yugoslavia—						
Bullion	2,572,000	2,850,000	2,572,000	2,415,000	3,079,000	2,977,000

*Excluding silver coin, but including silver shipped for minting.

(a) Years ended June 30 of that stated.

(c) Owing to revised method of calculation not strictly comparable with earlier years.

(b) Figures for 1961 to 1963 relate to Rhodesia and Nyasaland.

EXPORTS OF SILVER (cont.)

Fine troy ounces

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Morocco—						
Bullion	2,000	—	5,000	85,000	17,500	<i>n.a.</i>
South Africa—						
Bullion	1,629,320	2,120,592	1,679,079	1,699,777	2,773,203	11,827,383
South West Africa—						
Concentrates (b) ..	1,833,437	1,253,200	634,134	328,808	461,581	483,764
Guatemala (a)—						
Ore and base bullion ..	142,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	378
Honduras—						
Ore and base bullion ..	3,327,020	2,905,530	4,556,000	2,350,740	3,967,000	3,842,005
Mexico—						
Bullion, etc.	30,775,000	33,545,000	46,127,000	34,389,000	29,521,000	34,245,000
Nicaragua—						
Bullion	241,000	288,134	203,514	168,791	165,700	447,956
Salvador—						
Bullion	—	—	3,400	—	11,000	<i>n.a.</i>
United States—						
Ore and base bullion ..	653,717	770,000	1,298,000	2,676,000	537,000	369,000
Refined bullion	39,173,558	12,287,000	30,187,000	106,718,000	39,128,000	85,169,000
Argentina—						
Bullion, etc.	70,000	786,000	731,000	268,000	161,000	206,000
Bolivia—						
Ores, etc.	3,901,010	3,759,129	4,869,037	4,810,973	4,114,427	5,124,828
Chile—						
Ores, etc.	1,658,432	1,667,754	2,243,672	2,448,961	2,522,579	<i>n.a.</i>
Ecuador (a)—						
Ore and base bullion ..	62,000	70,000	53,000	51,000	39,000	20,000
Peru—						
Ores and concentrates	15,399,592	14,387,584	14,166,621	14,413,403	13,348,043	14,793,595
Bullion	17,446,202	19,620,308	17,000,000	23,000,000	19,695,419	20,576,305
Matte, slag, etc. .. .	437,971	380,721	500,674	125,169	938	—
Burma—						
Bullion	1,195,970	1,400,129	1,250,912	1,406,039	1,002,648	<i>n.a.</i>
Japan—						
Bullion and scrap .. .	12,000	(c) 386,000	(c) 94,000	(c) 2,913,000	(c) 155,000	(c) 99,000
Philippine Republic (a)—						
Ore and base bullion ..	602,000	359,000	403,000	351,700	356,700	587,000

(a) Imports into the United States from the country stated.

(b) Contained in lead complex concentrates exported.

(c) Including "beaten, rolled or drawn".

TOTAL IMPORTS OF SILVER*
(Metal content)

Fine troy ounces

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ores	3,529,000	3,731,000	4,614,000	(d) 8,000	(d) 142,000	(d) 202,000
Unrefined bullion	957,994	2,295,008	1,069,413	340,387	5,466,339	6,685,162
Refined bullion	64,845,184	37,781,500	20,353,712	54,972,152	18,469,555	31,720,892
Malta—						
Bullion	6,200	8,400	7,800	10,000	(f) 7,800	11,951
Ghana—						
Bullion	20,499	36	6,368	400	176	—
Nigeria—						
Bullion, etc.	562	13,737	19,363	22,284	20,702	47,250
Sierra Leone—						
Bullion	4,349	3,450	6,936	1,344	<i>n.a.</i>	<i>n.a.</i>
Zambia—						
Bullion	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	2,539	<i>n.a.</i>
Canada—						
Bullion	12,278,469	15,182,336	7,949,829	c) 5,197,764	c) 13,413,434	c) 14,477,787
Jamaica—						
Bullion	1,800	1,500	1,000	1,800	200	9,000
Trinidad and Tobago—						
Bullion	9,480	15,062	13,103	17,401	24,450	20,870
Guyana—						
Bullion	3,700	2,656	<i>n.a.</i>	3,260	5,655	6,190
Ceylon—						
Bullion	—	19,800	18,000	—	9,800	110,000
Cyprus—						
Bullion	55,000	60,500	62,400	43,600	76,000	109,000
Hong Kong—						
Bullion	(e) 472,000	(e) 657,000	(e) 1,343,000	(e) 3,488,000	(e) 1,352,000	(e) 637,000
India (b)—						
Bullion	70,500	44,000	33,070	7,901	6,646	6,130
Malaysia (West)—						
Bullion	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	2,500	300
Sarawak—						
Bullion	—	—	15	1,051	88	15
Singapore—						
Bullion	2,300	3,800	7,800	9,300	1,400	2,000
Australia (a)—						
Matte	11,609	25,203	5,635	—	—	—
Bullion	65,540	64,749	93,876	102,906	89,484	98,684
Beaten, rolled or drawn	340	5,429	12,850	11,529	2,740	<i>n.a.</i>
New Zealand—						
Bullion	19,079	71,901	(a) 77,423	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Beaten, rolled or drawn	22,600	871,608	(a) 20,965	(a) (e) 8,056	(a) 25,025	<i>n.a.</i>
Irish Republic—						
Bullion	—	—	—	216,981	8,430	37,825
OTHER COUNTRIES						
Austria—						
Bullion	4,065,000	1,893,000	6,086,000	2,090,000	3,199,000	3,778,000
Belgium-Luxemburg E.U.—						
Bullion and scrap	4,511,000	6,406,000	6,768,000	7,298,000	7,588,000	14,043,000
Denmark—						
Bullion	1,045,000	1,122,000	665,000	678,000	812,000	825,000
Beaten, rolled or drawn	2,074,000	2,201,000	2,385,000	3,324,000	3,625,000	3,353,000
Finland—						
Bullion, etc.	354,000	15,000	859,000	340,000	404,000	1,323,000

*Excluding silver coin, but including silver shipped for minting.

(a) Years ended June 30 of that stated.

(c) Including anodes.

(b) Years ended March 31 following that stated.

(d) Owing to reclassification not strictly comparable with earlier years.

(e) Excess of re-exports.

(f) Including partly worked.

IMPORTS OF SILVER (cont.)

Fine troy ounces

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
France—						
Bullion and scrap ..	12,856,000	18,813,000	24,732,000	27,822,000	22,061,000	27,571,000
Beaten, rolled or drawn	502,000	287,000	810,000	1,000,000	1,091,000	1,353,000
Germany (Federal)—						
Bullion	44,001,000	39,554,000	40,895,000	45,180,000	55,463,000	45,169,000
Italy—						
Bullion and scrap ..	19,030,000	12,560,395	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Netherlands—						
Bullion and scrap ..	1,847,000	4,600,000	3,326,000	3,039,000	5,098,000	4,316,500
Beaten, rolled or drawn	847,000	775,000	814,000	1,399,000	3,397,000	1,419,000
Norway—						
Bullion	919,000	830,000	629,000	1,105,000	1,726,000	1,234,000
Beaten, rolled or drawn	1,364,000	1,282,000	867,000	1,491,000	1,540,000	1,846,000
Portugal—						
Bullion and scrap ..	1,360,000	1,283,000	1,021,000	964,000	578,000	316,000
Beaten, rolled and drawn	24,000	90,000	45,000	58,000	129,000	98,000
Spain	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	6,438,668
Sweden—						
Bullion	354,000	386,000	450,000	450,000	510,000	482,000
Switzerland—						
Bullion	12,582,000	6,122,000	10,266,000	11,175,000	4,190,000	17,762,000
South Africa—						
Bullion	52,000	—	<i>n.a.</i>	1,000	94,494	142,465
Guatemala—						
Bullion	304,000	311,000	2,500	20,000	1,500	2,200
United States—						
Ore and base bullion ..	34,558,974	37,168,000	41,660,000	43,146,000	47,830,864	36,288,344
Refined bullion ..	15,697,216	39,191,000	17,402,000	8,528,000	6,878,106	27,040,450
Brazil—						
Bullion	1,007,000	1,076,000	1,195,000	1,512,000	734,000	970,000
Colombia—						
Bullion and scrap ..	36,000	19,000	50,000	56,000	66,000	59,000
Japan—						
Bullion and scrap ..	3,826,000	(a)3,402,000	3,627,000	9,937,000	4,789,000	7,032,000
Lebanon—						
Bullion and scrap ..	6,400	89,200	42,700	47,400	79,000	760,400
Turkey—						
Bullion, etc.	10,000	64,000	6,000	7,000	3,000	19,400

(a) Including "beaten, rolled or drawn".

STRONTIUM MINERALS
PRODUCTION OF STRONTIUM MINERALS

Producing Country and Description	Long tons						1967 (prev.)
	1961	1962	1963	1964	1965	1966	
COMMONWEALTH COUNTRIES							
United Kingdom—							
Celestite	8,679	6,532	9,019	17,033	9,549	9,405	7,000
Pakistan (b)—							
Celestite	414	288	379	265	444	527	
OTHER COUNTRIES							
Italy—							
Celestite	965	591	644	450	630	588	
Mexico (a)—							
Celestite	2,488	4,202	6,092	4,815	3,076	6,202	
Argentina—							
Celestite	—	n.a.	n.a.	n.a.	589	n.a.	

Strontium minerals are also known to have been produced in Germany, Poland and the U.S.S.R.

(a) Exports.

(b) West Pakistan.

also about 2,000 tons produced in Spain in 1967 has been reported.

EXPORTS OF STRONTIUM MINERALS, ETC.

Exporting Country and Description	Long tons					
	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Celestite	5,943	3,523	9,437	15,234	5,441	7,383
OTHER COUNTRIES						
France—						
Oxide	2	2	2	69	2	—
Italy—						
Strontianite and celestite	285	90	89	132	97	117
Mexico—						
Celestite	2,488	4,202	6,092	4,815	3,076	6,202

IMPORTS OF STRONTIUM MINERALS, ETC.

Importing Country and Description	Long tons					
	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
United States—						
Strontianite and celestite	8,867	6,687	14,493	19,301	8,697	10,283
Strontium compounds..	—	—	4	6	7	n.a.

SULPHUR
(see also Pyrites)
PRODUCTION OF SULPHUR

Long tons

Producing Country and Description	Estimated Sulphur Content						1966
	1961	1962	1963	1964	1965	1966	
COMMONWEALTH COUNTRIES							
United Kingdom—							
Sulphur content of zinc concentrates	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Spent oxide	n.a.	n.a.	65,629	92,591	93,049	87,980	81,161
Anhydrite (a)	n.a.	n.a.	104,447	177,229	203,895	204,656	237,647
Other (b)	n.a.	n.a.	58,406	53,701	47,992	39,712	47,557
Canada—							
Smelter gas	n.a.	n.a.	247,371	261,364	395,936	420,060	
Hydrogen sulphide (g) (i)	n.a.	n.a.	352,466	620,623	1,596,576	1,846,780	1,768,496
Trinidad (f)	(e) 5,000	7,157	5,000	7,157	5,322	n.a.	n.a.
Australia—							
Sulphur content of:							
zinc concentrates	n.a.	n.a.	175,299	184,087	190,345	193,447	193,065
lead concentrates	n.a.	n.a.	45,282	60,727	68,081	60,500	57,696
Spent oxide	7,334	6,838	2,375	2,381	190	—	—
OTHER COUNTRIES							
Austria—							
Recovered sulphur	—	—	—	—	—	6,000	6,000
Belgium—							
By-product sulphur	500	2,000	500	2,000	3,500	3,500	n.a.
Bulgaria (c)	5,000	6,000	5,000	7,000	10,000	10,000	11,000
France—							
Sulphur (d)	1,088,000	1,325,533	1,386,280	1,486,800	1,497,200	1,496,000	
Finland (e)	—	—	37,610	67,063	72,606	72,478	
Germany (Federal)—							
Refined sulphur	82,860	89,234	84,949	76,602	75,412	78,540	
Germany (East)—							
Sulphur	115,451	118,559	117,980	123,081	122,835	125,681	

(a) For sulphuric acid manufacture only.
 (b) Including sulphur recovered from petroleum refineries.
 (c) Sulphur recovered from pyrites or other sulphide ores.
 (d) Recovered from natural gas.
 (e) Estimated.

(f) Recovered from petroleum refineries.
 (g) Sales.
 (h) United States Bureau of Mines' estimate.
 (i) Recovered from natural gas and nickel sulphide.

PRODUCTION OF SULPHUR (cont.)

Long tons

Producing Country and Description	Estimated Sulphur Content						1966	1965	1964	1963	1962	1961	1966	1965	1964	1963	1962	1961	
	1961	1962	1963	1964	1965	1966													
OTHER COUNTRIES (cont.)																			
Italy—																			
Sulphur rock ..	1,200,404	1,049,354	968,867	667,773	635,084	580,183													
Fused (c) ..	69,943	53,454	r 41,133	28,472	35,654	13,834													
Ground sulphur rock (c) ..	17,567	29,122	28,035	23,033	18,627	18,160													
Netherlands (i) ..	28,000	31,000	34,000	28,400	26,500	(d)27,000													
Norway (i) ..	61,157	45,204																	
Poland—																			
Native sulphur ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.													
Portugal (i) ..	8,813	6,677	3,000																
Spain—																			
Refined sulphur (h) ..	48,323	41,836	68,036	75,451	29,671	n.a.													
Sweden—																			
Sulphur ..	30,491	29,900	25,900	27,009	21,082	n.a.													
U.S.S.R. (d)—																			
Native sulphur ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.													
By-product sulphur ..	275,000	370,000	400,000	400,000	420,000	420,000													
Egypt—																			
Native sulphur ..	44,692	30,561	4,675																
By-product sulphur (a) ..	2,546	2,039	2,363	2,427	3,790	11,490													
South Africa—																			
By-product sulphur (a) ..	2,163	1,913	1,981	5,701	7,102	(d) 6,300													
Mexico—																			
Crude sulphur (f) ..	1,148,494	1,350,375	1,456,656	1,635,767	1,481,236	1,611,446													
Sulphur ore (g) ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.													
Refined sulphur (e) ..	51,086	46,545	43,308	36,284	45,984	38,160													
Netherlands Antilles—																			
By-product sulphur (a) ..	n.a.	n.a.	n.a.	26,000	25,000	n.a.													
United States—																			
Crude sulphur (f) ..	5,385,468	4,984,578	4,881,512	5,228,207	6,116,273	7,001,360													
Sulphur ore (g) ..	400,015	162,186	1,371	794	2,592	557													
Smelter gas (h) ..	1,016,731	1,088,397	1,089,523	1,119,976	1,330,912	1,452,896													

(a) Recovered from petroleum refineries.

(b) Estimated sulphur content of gas driven off in the smelting of lead, zinc and copper concentrates, recovered as sulphuric acid.

(c) Derived from sulphur rock above.

(d) United States Bureau of Mines' estimate.

(e) Recovered from natural gas.

(f) Frasch-process mines.

(g) Other mines.

(h) Mainly recovered from pyrites.

(i) Sulphur recovered from pyrites or other sulphide ores.

PRODUCTION OF SULPHUR (cont.)

Long tons

Producing Country and Description	Estimated Sulphur Content						1966
	1961	1962	1963	1964	1965	1966	
OTHER COUNTRIES							
United States (cont.)—							
By-product sulphur (i) ..	861,413	902,124	949,567	1,024,649	1,219,312	1,241,566	1,237,994
Hydrogen sulphide and liquid sulphur dioxide (i)	126,923	115,670	136,509	143,689	162,668	161,962	133,859
Argentina—							
Refined sulphur ..	27,824	26,376	22,141	21,955	23,391	29,942	29,942
Bolivia (f)—							
Refined sulphur ..	4,897	7,247	9,793	10,635	9,305	56,554	56,554
Chile—							
Smelter gases, etc. (g) ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	11,277
Refined sulphur ..	43,994	63,226	40,271	40,496	77,720	36,694	36,500
Colombia—							
Refined sulphur ..	9,900	10,046	13,000	11,942	18,114	20,649	20,649
Ecuador—							
Native sulphur ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
China (c)—							
Native sulphur ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	120,000
Recovered sulphur (d) ..	130,000	130,000	130,000	130,000	130,000	130,000	130,000
Formosa—							
Refined sulphur ..	5,472	7,462	7,945	9,170	6,772	6,860	6,860
Indonesia—							
Native sulphur ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	804
Iran—							
Native sulphur ..	n.a.	n.a.	(h)10,500	n.a.	n.a.	n.a.	1,033
By-product sulphur (a)(c)	20,000	15,000	20,000	20,000	20,000	20,000	20,000
Japan—							
Refined sulphur (e) ..	238,455	220,438	219,094	237,412	210,000	225,000	210,000
By-product sulphur (a) ..	8,163	8,549	11,429	18,499	35,988	52,187	52,187
Philippine Republic (b) ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	158
Turkey—							
Refined sulphur ..	15,506	18,246	19,123	21,800	23,000	22,300	22,300

Sulphur is also produced in Iraq.

(a) Recovered from petroleum refineries.

(b) Including sulphur recovered from gold and silver mines.

(c) United States Bureau of Mines' estimate.

(d) Probably recovered from pyrites.

(e) From sulphur rock and sulphide ores.

(f) Exports.

(g) Sulphur contained in sulphuric acid.

(h) Year ended March 20 of year following that stated.

(i) Produced in treatment of industrial gases.

EXPORTS OF SULPHUR

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom ..	3,978	1,738	2,045	2,162	1,950	1,484
Canada	194,523	357,166	732,972	1,155,881	1,337,453	1,249,193
Singapore—						
Crude	<i>n.a.</i>	32	45	27	24	38
Refined	108	110	140	182	193	161
Australia—						
Zinc concentrates						
(<i>S content</i>) (a) ..	70,000	65,000	66,000	57,000	54,000	58,000
New Zealand	10	—	(b) 1	(b) 5	—	(b) 2
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Crude	1,546	3,752	422	283	371	—
Refined	3,245	5,529	7,674	7,438	6,658	9,298
France—						
Crude	561,958	534,930	993,977	1,017,792	898,815	868,030
Unrefined ground ..	2,775	2,707	2,413	1,638	2,316	2,127
Refined lump	1,161	767	492	504	736	735
Flowers of sulphur ..	5,411	5,346	6,527	8,274	8,797	7,697
Precipitated sulphur ..	1	21	38	—	28	5
Germany (Federal) ..	16,354	21,839	24,751	25,700	26,674	66,467
Germany (East)	33,022	41,060	20,316	11,702	5,914	7,905
Greece	<i>n.a.</i>	—	4,390	6,052	14,377	<i>n.a.</i>
Italy—						
Crude	17,550	6,082	75	3	—	20
Refined	<i>r</i> 23,408	8,746	7,461	4,303	2,131	1,415
Flowers of sulphur ..	<i>r</i> 371	297	436	286	259	305
Precipitated sulphur ..	<i>r</i> 5	30	21	3	37	13
Netherlands—						
Crude	5,005	5,042	6,833	4,388	3,002	1
Refined	14	38	6	37	3	49
Norway	34,271	32,251	7,287	425	—	2,053
Poland	<i>n.a.</i>	<i>n.a.</i>	122,337	148,152	237,202	267,435
Portugal	455	317	28	152	637	933
Spain—						
Refined	—	—	487	271	398	343
Sweden	286	330	187	189	331	89
U.S.S.R.	214,700	106,400	102,100	144,800	151,800	216,000
South Africa	151	—	—	115	449	127
Mexico	1,136,452	1,309,975	1,482,983	1,811,600	1,515,513	496,156
United States—						
Crude	1,585,531	1,537,419	1,603,438	1,920,392	2,624,052	2,326,103
Refined and flowers of sulphur	10,512	16,567	9,199	7,700	27,683	47,339
Bolivia	4,897	7,247	9,793	10,635	9,305	56,554
Chile	714	631	—	246	—	<i>n.a.</i>
Japan	284	301	133	154	188	5,717
Turkey	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	4,114

(a) Estimated amount recoverable.

(b) Years ended June 30 of that stated.

IMPORTS OF SULPHUR

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Sulphur	496,193	495,776	543,047	709,651	786,079	753,896
Wastes and residues	20,079	16,986	12,751	—	9,448	459
Malta—						
Crude	—	—	—	2	31	2
Flowers of sulphur	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	241	124
	(£9,109)	(£11,539)	(£12,347)	(£13,531)	(£9,128)	(£7,093)
Kenya	150	287	365	1,388	1,450	1,419
Mauritius	74	36	39	1	104	111
Rhodesia (a)	110	220	118	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Tanzania	460	328	272	239	266	550
Uganda	402	2,676	1,699	1,539	5,815	5,894
Zambia—						
Crude	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	4,987	3,021
Flowers of sulphur	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	34	21
Canada	291,844	174,125	134,497	(b) 133,542	(b) 144,822	(b) 129,879
Jamaica	4	16	1,103	1,004	1,006	1,009
Trinidad and Tobago	27,277	9,753	11,130	16,415	17,132	16,963
Guyana	—	1	<i>n.a.</i>	5	5	6
Ceylon	3,467	958	4,055	2,562	1,907	2,056
Cyprus	1,583	1,707	1,828	1,486	1,833	1,992
Hong Kong	1,151	1,268	1,511	422	376	709
India	188,410	244,114	256,896	237,352	278,774	283,048
Malaysia (West)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	5,063	5,372
Pakistan	5,634	5,179	4,766	16,948	<i>n.a.</i>	<i>n.a.</i>
Singapore—						
Crude	<i>n.a.</i>	46	13	1,002	59	2,000
Refined	206	198	233	184	1,343	1,346
Australia	182,052	229,195	222,527	376,639	387,868	434,045
New Zealand	144,475	104,902	146,956	(c) 174,202	(c) 204,846	(c) 211,548
Irish Republic	35,193	46,070	46,845	53,798	52,532	85,288
OTHER COUNTRIES						
Austria	60,106	73,165	84,906	88,731	112,218	80,778
Belgium-Luxemburg						
E.U.—						
Crude	163,476	167,455	176,660	210,204	269,824	215,218
Refined	280	226	330	510	403	528
Czechoslovakia	107,000	131,000	171,000	186,000	222,000	234,000
Denmark	4,399	9,744	12,337	10,791	13,612	10,318
Finland	84,749	82,571	58,589	66,329	71,245	76,622
France—						
Crude	140,868	144,801	112,824	210,593	259,615	222,468
Unrefined ground	33	225	118	156	119	59
Refined lump	44	153	264	618	255	317
Precipitated	48	50	38	77	58	39
Germany (Federal)	158,316	216,554	288,081	398,384	478,168	366,008
Greece	12,509	9,312	20,461	45,712	47,302	58,017
Hungary	27,165	31,053	124,693	162,992	156,000	149,000
Italy	17,666	129	156	60,777	72,268	84,400
Netherlands—						
Crude	125,167	120,697	133,317	163,227	212,939	196,318
Refined	1,195	1,271	1,446	1,570	1,642	1,796
Norway	9,854	14,085	35,009	45,966	57,097	40,958
Poland	10,900	<i>n.a.</i>	26,700	19,200	6,889	<i>n.a.</i>
Portugal	11,953	20,614	31,597	37,552	53,863	33,732
Spain—						
Crude	5,800	6,518	19,536	39,054	35,483	37,659
Refined, etc.						

(a) Figures for years 1961 to 1963 relate to Rhodesia and Nyasaland.

(b) Owing to reclassification not strictly comparable with earlier years.

(c) Years ended June 30 of that stated.

IMPORTS OF SULPHUR (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Sweden	95,916	81,370	84,615	126,086	157,226	176,210
Switzerland—						
Crude and ground	54,038	61,497	63,600	52,111	79,912	54,414
Flowers of sulphur	121	212	187	216	251	239
U.S.S.R.	43,800	31,600	83,800	143,500	24,800	26,900
Yugoslavia	18,633	11,426	12,473	18,187	15,468	14,566
Angola	578	364	236	485	397	560
Canary Islands—						
Crude	6,769	6,498	687	1,257	923	7,483
Refined, etc.						
Egypt	8,757	8,444	17,935	5,977	5,028	15,960
Malagasy Republic	7	3	18	29	22	20
Morocco—						
Crude	3,386	7,752	2,894	4,581	9,851	<i>n.a.</i>
Unrefined, ground	1,246	1,153	984	966	843	<i>n.a.</i>
Refined	325	75	156	92	117	<i>n.a.</i>
Flowers of sulphur	2,535	2,540	2,872	3,492	2,632	<i>n.a.</i>
Precipitated	8	12	24	46	34	<i>n.a.</i>
Mozambique	659	778	482	583	425	659
South Africa	111,326	116,393	122,151	142,110	191,008	181,838
Tunisia—						
Crude and unrefined	8,593	4,962	9,637	21,152	72,997	126,913
Refined and flowers of sulphur	823	1,623	1,019	203	886	<i>n.a.</i>
Costa Rica	147	10	132	40	<i>n.a.</i>	59
Guatemala	95	104	35	2	—	98
Mexico	146	145	151	340	422	244
Netherlands Antilles	4,002	—	3,407	1,959	—	—
Nicaragua	5,583	8,221	6,724	275	50	308
Salvador	42	16	3,420	43	39	5,444
United States	831,517	1,049,433	1,813,338	1,462,211	1,465,093	1,514,032
Argentina—						
Crude	20,188	23,856	13,674	44,310	44,367	34,829
Refined and flowers of sulphur	104	71	80	165	169	150
Bolivia	32	11	58	<i>n.a.</i>	4	<i>n.a.</i>
Brazil—						
Crude	128,018	150,351	173,814	138,577	189,299	164,331
Refined	161	182	—	—	558	524
Precipitated	12	13	35	23	3	12
Chile	6,083	9,213	7,759	<i>n.a.</i>	22,408	<i>n.a.</i>
Colombia	95	4,773	3,346	1,537	3,138	64
Ecuador	96	22	87	134	148	<i>n.a.</i>
Peru	9,825	15,515	12,745	12,062	15,757	13,043
Uruguay	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	8,441	9,291
Venezuela	8,839	10,390	10,284	22,381	33,325	3,451
Burma	1,688	1,468	402	513	1,234	<i>n.a.</i>
Formosa	11,915	15,252	39,775	86,535	116,788	68,210
Indonesia	9,290	8,310	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Iran (a)	5,148	15,521	6,517	269	146	3,717
Iraq	869	1,370	2,402	1,344	<i>n.a.</i>	<i>n.a.</i>
Israel	43,079	67,816	49,449	69,057	47,941	55,538
Japan	101	35	13,588	24,227	53,119	9,630
Jordan	1,455	1,556	2,787	2,319	1,169	2,050
Korea (South)	7,526	214	1,453	89	6,365	21,693
Lebanon	3,692	3,501	9,586	2,375	25,567	10,019
Philippine Republic	535	2,744	3,905	5,438	18,954	<i>n.a.</i>
Syria	904	1,032	558	1,363	51	2,041
Thailand	2,268	3,746	6,644	9,288	5,128	10,998
Turkey—						
Refined and flowers of sulphur	64	9	245	207	98	103

(a) Years ended March 20 of year following that stated.

TALC
PRODUCTION OF TALC
(Including Steatite and Pyrophyllite)

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom	6,930	7,357	7,976	10,155	9,977	8,978
Rhodesia	—	20	19	14	n.a.	n.a.
Swaziland—						
Pyrophyllite	2,638	3,484	2,725	1,964	905	429
Canada (c)	42,961	41,215	48,437	51,904	47,176	62,629
India—						
Steatite	96,597	102,286	119,069	131,706	154,000	145,000
Pyrophyllite	n.a.	n.a.	n.a.	5,975	11,641	8,163
Pakistan (f)	1,473	1,102	1,840	2,519	2,799	3,231
Australia—						
Talc	r 13,545	14,060	13,106	15,695	19,719	19,037
Pyrophyllite	r 1,288	931	837	381	—	—
OTHER COUNTRIES						
Austria	83,606	74,574	64,607	70,737	74,703	75,098
Finland	6,221	6,329	6,649	5,900	6,900	5,000
France	219,132	184,000	155,624	202,156	236,493	191,000
Germany (Federal)	29,193	27,152	24,069	30,004	30,249	32,393
Greece	1,825	2,377	2,701	3,705	(a) 3,500	(a) 3,500
Italy	132,773	127,554	137,134	r 131,716	117,394	110,899
Norway	89,999	89,321	71,908	75,880	75,000	77,113
Portugal	709	321	531	787	699	709
Spain	27,230	27,287	27,069	26,384	n.a.	n.a.
Sweden	15,420	17,144	18,478	16,400	18,300	18,200
U.S.S.R. (a)	290,000	300,000	345,000	345,000	350,000	350,000
Egypt	5,862	6,029	4,714	16,555	39,002	29,170
South Africa (b)	2,928	12,429	6,755	6,512	9,096	8,509
Mexico	4,121	(a) 4,000	(a) 4,000	(a) 4,000	(a) 4,000	(a) 4,000
United States—						
Talc	540,142	577,215	602,982	673,072	657,687	687,324
Pyrophyllite	140,554	111,828	115,195	121,525	112,737	111,787
Argentina	28,609	28,708	27,618	24,022	24,693	n.a.
Brazil	23,400	37,695	34,364	r 47,355	56,738	28,412
Chile	1,836	1,871	2,541	2,716	1,465	2,233
Colombia	550	650	650	718	400	1,176
Paraguay	—	—	—	46	138	59
Peru—						
Talc	329	281	169	n.a.	n.a.	} 3,774
Pyrophyllite	2,561	1,411	2,394	3,535	4,126	
Uruguay	1,658	1,688	1,688	2,090	2,337	2,094
Afghanistan (d)	700	n.a.	n.a.	n.a.	n.a.	n.a.
Burma	1,377	n.a.	n.a.	n.a.	n.a.	n.a.
China (a)	150,000	150,000	150,000	150,000	150,000	150,000
Formosa	12,219	13,197	14,553	16,713	14,988	28,298
Iran (e)	300	n.a.	n.a.	n.a.	n.a.	n.a.
Japan—						
Talc	54,971	56,333	66,976	95,962	91,724	} 1,059,763
Pyrophyllite	569,593	523,713	776,373	942,116	900,159	
Korea (South)—						
Talc	21,332	27,920	31,880	43,207	35,168	52,763
Pyrophyllite	23,606	17,826	31,309	45,429	48,141	53,826
Korea (North) (a)	14,500	20,000	r 29,000	r 39,000	49,000	49,000
Philippine Republic	187	116	93	96	584	627
TOTAL*	2,660,000	2,620,000	r 2,950,000	r 3,370,000	3,390,000	3,440,000

*Excluding talc known to have been produced in Roumania.

(a) United States Bureau of Mines' estimate.

(b) In addition the following amounts of wonderstone were produced (long tons):
1961—913; 1962—1,650; 1963—1,826; 1964—1,677; 1965—3,569; 1966—6,172.

(c) Shipments. (d) Estimated. (e) Years ended 20 March of year following that stated.

(f) West Pakistan.

EXPORTS OF TALC

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Canada	(a) 1,800	(a) 2,100	(a) 2,000	(a) 2,300	(a) 3,100	n.a.
India	9,484	15,418	14,015	11,771	10,376	10,240
Malaysia (West)	n.a.	n.a.	n.a.	n.a.	14	20
Singapore	1,026	1,210	876	877	335	458
Australia	4,191	4,988	4,025	5,181	6,778	7,634
OTHER COUNTRIES						
Austria	61,397	55,008	50,803	54,915	59,535	59,601
Belgium-Luxemburg						
E.U.	8	8	37	91	30	1,487
France	43,558	44,113	48,840	50,468	50,372	43,414
Germany (Federal)	1,137	1,041	1,187	1,196	1,201	1,128
Greece	36	116	194	30	173	n.a.
Italy	r 49,465	r 50,074	46,428	r 42,963	42,384	38,827
Netherlands	144	193	159	144	344	207
Norway	60,878	63,162	65,508	73,581	68,480	73,621
Portugal	20	5	6	87	12	33
Sweden	1,352	1,968	1,435	4,131	5,001	3,978
Switzerland	121	1,091	1,507	1,256	1,256	527
Egypt	2,012	n.a.	1,012	1,619	1,280	1,235
South Africa	n.a.	n.a.	n.a.	632	167	347
Mexico	1	—	2	6	40	18
United States	42,779	41,910	50,431	66,070	62,140	62,837
Japan	1,178	1,687	2,975	629	4,760	982
Korea (South)—						
Talc	14,279	249	17,293	26,482	19,120	40,436
Pyrophyllite	12,360	n.a.	n.a.	n.a.	n.a.	n.a.
Turkey	—	50	n.a.	20	1	46

(a) Estimated.

IMPORTS OF TALC

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Unground	994	624	44,131	47,832	45,301	47,714
Ground	38,881	42,515				
Canada	18,040	21,561	24,589	28,803	24,873	22,248
Ceylon	1,530	2,191	1,885	1,007	1,302	1,153
Malaysia (West)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,890	1,483
Singapore	5,505	1,860	3,612	2,961	1,759	1,359
Australia (a)	958	1,468	3,155	2,631	2,340	(c) 1,897
New Zealand	1,217	<i>n.a.</i>	(a) 1,254	(a) 1,315	(a) 1,311	(a) 1,750
OTHER COUNTRIES						
Austria	1,373	1,759	1,100	883	1,769	1,469
Belgium-Luxemburg						
E.U.	13,417	14,846	15,829	16,690	15,986	35,562
Denmark	11,376	11,606	10,904	12,966	13,072	13,539
Finland	2,774	2,799	2,542	3,766	4,392	4,915
France	6,622	6,899	8,543	7,635	6,784	7,549
Germany (Federal)	48,391	50,038	49,264	59,769	68,212	67,349
Greece	54	83	61	405	68	179
Italy	6,535	8,665	12,971	12,115	11,098	12,305
Netherlands	10,946	11,822	13,430	13,498	14,032	14,272
Norway	1,570	2,718	3,621	3,037	4,009	4,812
Poland	30,900	<i>n.a.</i>	8,600	10,200	17,801	14,500
Portugal	990	1,180	1,358	1,912	1,911	1,895
Spain	217	402	1,290	858	2,150	2,481
Sweden	11,614	10,428	12,867	14,457	16,487	18,329
Switzerland	15,460	15,725	15,186	13,098	13,652	12,535
U.S.S.R.	49,600	73,600	59,000	71,500	66,400	59,300
Yugoslavia	400	348	670	6,602	9,733	1,578
Egypt	15	6	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Malagasy Republic	16	9	3	8	27	76
Morocco	1,412	1,644	1,865	1,450	1,217	<i>n.a.</i>
South Africa	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,016	742	1,198
Tunisia	498	655	688	619	332	<i>n.a.</i>
Costa Rica	85	83	133	103	137	116
Guatemala	93	121	114	116	174	114
Honduras	17	15	25	17	34	• 52
Mexico—						
Talc	28,810	23,501	31,122	39,361	34,215	46,520
Pyrophyllite	271	95	60	89	148	81
Salvador	74	66	53	98	74	124
United States	24,424	23,014	22,929	20,284	18,770	19,561
Argentina	128	74	70	190	148	227
Brazil	1	—	—	—	—	—
Chile	67	53	274	<i>n.a.</i>	258	<i>n.a.</i>
Colombia	976	1,111	991	981	971	931
Ecuador	159	86	164	169	173	<i>n.a.</i>
Peru	654	493	602	732	955	795
Venezuela	1,446	1,741	1,914	2,733	2,954	2,936
Iran (b)	20	454	377	125	138	108
Iraq	389	282	325	324	<i>n.a.</i>	<i>n.a.</i>
Japan	40,029	40,816	15,604	26,403	24,698	34,049
Lebanon	301	148	218	217	226	167
Philippine Republic	1,800	1,710	2,684	2,531	2,610	<i>n.a.</i>
Syria	<i>n.a.</i>	491	44	581	485	767
Thailand	1,276	1,371	1,161	1,747	1,813	1,977
Turkey	324	179	279	93	217	71

(a) Years ended June 30 of that stated.

(b) Years ended March 20 of year following that stated.

(c) Owing to reclassification not strictly comparable with earlier years.

TANTALUM AND NIOBIUM MINERALS
PRODUCTION OF TANTALUM AND NIOBIUM MINERALS

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Kenya—						
Columbite	—	(375 lb.)	—	—	—	—
Nigeria—						
Tantalite	13	17	13	10	13	65
Columbite	2,345	2,264	2,011	2,339	2,548	2,221
Rhodesia—						
Tantalum concentrates	62	72	67	63	n.a.	n.a.
Tanzania—						
Niobium concentrates (a) (e)	120	—	—	—	—	—
Uganda—						
Tantalite and columbite	7	12	9	7	8	12
Canada—						
Niobium concentrates (Nb ₂ O ₅ content) ..	28	454	622	966	1,042	1,178
Malaysia (West)—						
Columbite	95	110	88	56	46	67
Australia—						
Tantalite and columbite	14	19	14	15	11	5
OTHER COUNTRIES						
Norway—						
Niobium concentrates (b)	316	344	377	320	148	—
Portugal—						
Tantalite and columbite	19	15	10	5	5	10
Congo Republic—						
Tantalite and columbite concentrates (d) ..	66	139	115	n.a.	n.a.	n.a.
Tin-tantalite-columbite (c)	625	n.a.	n.a.	n.a.	n.a.	n.a.
Ivory Coast—						
Tantalite and columbite	4	3	1	1	1	—
Malagasy Republic—						
Columbite	21	(a) 7	17	4	4	1
Mozambique—						
Tantalite and columbite	133	101	79	43	51	} 133
Microlite	31	51	71	139	84	
Rwanda and Burundi—						
Tantalite and columbite concentrates (d) ..	45	38	12	154	n.a.	n.a.
South Africa—						
Tantalite and columbite	9	4	29	6	3	2
South West Africa—						
Tantalum and niobium concentrates	3	5	2	1	1	1
Argentina (f)—						
Tantalite	2	2	2	—	—	4
Brazil—						
Tantalite and columbite	106	137	129	24	12	4
Pyrochlore concentrates	1,504	100	—	318	1,177	4,200
French Guiana—						
Tantalite and columbite	—	—	2	1	—	1
TOTAL (g) ..	r 4,970	r 4,300	r 4,320	r 5,500	6,300	9,500

Small quantities of tantalite and columbite have been produced in Zambia, India and the Somali Republic.

(a) Exports.

(b) 55.3% Nb₂O₅ in 1961; 57.9% Nb₂O₅ in 1962; 56.2% Nb₂O₅ in 1963; 53.7% Nb₂O₅ in 1964; 56% Nb₂O₅ in 1965.

(c) United States Bureau of Mines' estimate.

(d) Including tantalite-columbite content of tin-tantalite-columbite.

(e) 25% Nb₂O₅.

(f) Imports into the United States.

(g) Total of tantalum and niobium concentrates produced in the countries listed above.

EXPORTS OF TANTALUM AND NIOBIUM MINERALS, ETC.

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ferro-niobium and ferro-niobium-tantalum ..	83	68	173	153	212	196
Nigeria—						
Tantalite	11	13	20	11	8	11
Columbite	1,839	2,266	1,599	3,132	2,776	2,325
Rhodesia (d)—						
Tantalum concentrates	38	74	87	74	17	n.a.
Tanzania—						
Niobium concentrates ..	120	—	—	—	—	—
Uganda—						
Tantalite and columbite	3	9	6	6	15	12
Malaysia (West)—						
Columbite	138	98	65	6	52	82
Australia (a)—						
Tantalite and columbite	13	16	12	20	47	7
OTHER COUNTRIES						
Germany (Federal)—						
Tantalum metal, etc. ..	(22,000lb.)	(24,900lb.)	(13,200lb.)	(9,500lb.)	(11,500lb.)	(21,400lb.)
Niobium metal, etc. ..	(2,900lb.)	(4,200lb.)	(1,000lb.)	(1,500lb.)	(12,500lb.)	(2,900lb.)
Portugal—						
Tantalite and columbite	40	42	31	25	20	29
Norway—						
Niobium concentrates ..	192	264	281	308	165	—
Congo Republic (c)—						
Tantalite and columbite ^b	120	130	140	50	120	500
Malagasy Republic—						
Columbite	14	7	26	16	3	1
Mozambique—						
Columbite	40	101	136	203	74	n.a.
South Africa—						
Tantalite	1	10	21	—	6	11
South West Africa—						
Tantalite	2	4	1	—	1	—
United States—						
Tantalum concentrates	97	62	25	89	127	73
Niobium concentrates	25	10	21	153	n.a.	n.a.
Tantalum metal, etc. ..	(15,554lb.)	(18,078lb.)	(44,390lb.)	(32,489lb.)	(35,821lb.)	(21,722lb.)
Niobium metal, etc. ..	(13,376lb.)	(16,827lb.)	(14,276lb.)	(4,674lb.)	(4,217lb.)	(4,101lb.)
Tantalum powder	(5,585lb.)	(14,292lb.)	(14,146lb.)	(32,217lb.)	(9,621lb.)	(51,354lb.)
Brazil—						
Tantalite	118	144	103	81	163	157
Columbite	17	17	19	11	39	58
Pyrochlore concentrates	—	—	753	67	1,313	3,736

(a) Years ended June 30 of that stated.

(b) Estimated.

(c) Including Rwanda and Burundi.

(d) Figures for 1961 to 1963 relate to Rhodesia and Nyasaland.

IMPORTS OF TANTALUM AND NIOBIUM MINERALS, ETC.

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Tantalum and niobium ores and concentrates	576	485	745	1,439	1,635	1,558
Tantalum metal ..	(5,444lb.)	(5,599lb.)	(8,394lb.)	(10,940lb.)	(12,353lb.)	(33,040lb.)
OTHER COUNTRIES						
France—						
Tantalum and niobium minerals	145	88	71	148	136	422
Germany (Federal)—						
Tantalum and niobium minerals	(b) 650	(b) 350	(b) 650	n.a.	1,440	1,383
Tantalum metal, etc. ..	(11,700lb.)	(13,700lb.)	(6,600lb.)	(11,500lb.)	(26,000lb.)	(40,098lb.)
United States—						
Tantalum concentrates	361	541	422	438	534	957
Niobium concentrates..	1,328	2,255	2,628	2,054	2,184	4,142
Tantalum metal ..	(2,887lb.)	(1,788lb.)	(1,597lb.)	(3,491lb.)	(26,162lb.)	(47,748lb.)
Niobium metal (a) ..	(2,139lb.)	(9,489lb.)	(1,427lb.)	(3,792lb.)	(9,817lb.)	(4,431lb.)
Japan—						
Niobium minerals ..	55	11	76	300	279	553

(a) As recorded in official trade returns. According to U.S. Bureau of Mines includes ferro-alloy.

(b) Estimated.

TIN
PRODUCTION OF TIN ORE
(Metal contents)

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom ..	1,188	1,173	1,286	1,254	1,263	1,284
Nigeria	7,778	8,211	8,725	8,721	9,535	9,299
Rhodesia	715	706	525	536	<i>n.a.</i>	<i>n.a.</i>
Swaziland	5	5	4	2	2	—
Tanzania	169	214	242	283	255	346
Uganda	33	69	165	217	178	120
Zambia	1	5	1	9	16	3
Canada (b) .. .	500	291	414	157	168	327
Malaysia (West) ..	56,028	58,603	59,948	60,004	63,669	68,886
Australia	2,745	2,715	2,860	3,642	3,849	4,838
TOTAL	69,162	71,992	74,170	74,825	79,400	85,600
OTHER COUNTRIES						
France	153	314	272	486	447	421
Germany (Eastern) (g) ..	1,000	1,000	1,000	1,000	1,000	1,000
Portugal	729	679	718	676	557	600
Spain	230	231	158	90	113	131
Cameroun	65	20	25	39	38	42
Congo Republic .. .	6,314	6,875	6,883	r 5,108	6,324	5,100
Congo (Republic of) ..	47	46	43	35	44	44
Morocco	11	11	9	14	(a) 12	(a) 12
Niger	47	41	55	51	54	57
Rwanda and Burundi ..	1,474	(a) 1,325	1,271	1,360	1,420	(a) 960
South Africa	1,430	1,421	1,530	1,586	1,671	1,745
South West Africa ..	302	369	443	474	416	687
Mexico	530	576	1,055	1,206	503	789
United States	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	47	97
Argentina	257	231	225	343	497	1,142
Bolivia (c)	20,318	20,366	22,499	22,960	23,828	25,825
Brazil	597	731	1,153	r 729	1,673	<i>n.a.</i>
Peru (e)	14	11	21	r 36	49	37
Burma	951	1,041	914	568	464	370
China (d) (f) .. .	30,000	28,000	28,000	25,000	25,000	22,000
Indonesia	18,573	17,310	12,947	16,345	14,699	12,568
Japan	853	859	857	796	838	970
Laos	335	367	(a) 400	(a) 500	(a) 480	(a) 480
Thailand	13,270	14,679	15,585	15,597	19,048	22,565
TOTAL*	98,000	97,000	96,000	r 95,000	99,000	99,000
WORLD'S TOTAL* ..	167,000	169,000	170,000	r 170,000	178,000	185,000

*Excluding tin ore known to have been produced in Czechoslovakia, the U.S.S.R. and Vietnam.

- (a) International Tin Council estimate.
- (b) Tin in concentrates exported and in tin-lead alloy.
- (c) Content of ore plus metal exported.
- (d) Smelter.
- (e) Recoverable.
- (f) United States Bureau of Mines' estimate.
- (g) "Metallgesellschaft" estimate.

SMELTER PRODUCTION OF TIN

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom	24,449	18,749	17,444	16,849	16,494	17,499
Nigeria	622	8,034	9,050	8,749	9,369	8,225
Rhodesia	672	677	499	511	<i>n.a.</i>	<i>n.a.</i>
Malaysia (West)	79,114	82,073	84,001	71,351	72,469	71,049
Australia	2,546	2,704	2,626	<i>r</i> 3,021	3,179	3,666
TOTAL	107,403	112,237	113,620	<i>r</i> 100,481	102,000	101,000
OTHER COUNTRIES						
Belgium	6,372	9,507	8,280	6,804	5,227	6,472
Germany—						
Federal Republic	947	1,309	1,052	1,178	1,427	1,362
Eastern (<i>d</i>)	1,200	1,200	1,200	1,200	1,200	1,200
Netherlands	2,729	4,282	5,762	15,858	18,114	12,551
Portugal	784	766	663	589	603	556
Spain	731	909	1,505	1,774	1,678	2,954
Congo Republic	275	945	1,441	1,485	(<i>b</i>) 1,800	(<i>b</i>) 1,800
Morocco (<i>b</i>)	10	10	10	10	12	12
South Africa	870	821	937	1,016	962	822
Mexico	559	520	1,055	1,145	459	795
United States	(<i>b</i>) 8,500	(<i>b</i>) 5,500	(<i>b</i>) 1,500	(<i>b</i>) 3,900	3,098	3,825
Argentina (<i>b</i>)	120	120	120	120	120	120
Bolivia (<i>a</i>)	1,840	1,882	2,209	2,461	3,406	1,083
Brazil	1,525	1,835	2,051	1,478	1,545	1,211
China (<i>c</i>)	30,000	28,000	28,000	25,000	25,000	22,000
Indonesia (<i>b</i>)	2,000	2,000	2,000	1,800	1,800	1,510
Japan	1,555	1,822	1,612	1,485	1,610	1,836
Thailand	—	—	—	—	5,524	16,990
TOTAL*	60,000	61,000	59,000	<i>r</i> 67,000	73,000	77,000
WORLD'S TOTAL*	167,000	173,000	173,000	168,000	175,000	178,000

*Excluding tin metal known to have been produced in Czechoslovakia and the U.S.S.R.

In addition secondary tin recovered in the United States (as metal, in alloys, and in chemical compounds) was as follows:

	Long tons		Long tons
1961	21,690	1964	23,508
1962	21,040	1965	25,076
1963	22,332	1966	25,349

(*a*) Exports.

(*b*) International Tin Council estimate.

(*c*) United States Bureau of Mines' estimate.

(*d*) "Metallgesellschaft" estimate.

EXPORTS OF TIN, ETC.*

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Unwrought	9,799	7,156	8,450	6,443	6,682	6,003
do. alloys	1,839	2,333	2,656	2,995	2,601	3,565
Semi-manufactures (a)	301	468	334	514	937	648
Nigeria—						
Ore and concentrates	10,410	347	160	25	9	634
Unwrought	600	7,542	9,673	10,557	10,575	11,495
Rhodesia (c)—						
Ore and concentrates	254	31	—	54	71	n.a.
Unwrought	486	549	463	473	399	n.a.
Tanzania—						
Ore and concentrates	226	295	341	361	351	487
Uganda—						
Ore and concentrates	42	87	230	320	294	204
Zambia—						
Ore and concentrates	n.a.	n.a.	n.a.	155	4	n.a.
Canada—						
Concentrates (Sn content)	480	287	800	329	216	337
Hong Kong—						
Scrap	2	65	10	—	19	1
Semi-manufactures	1	2	5	3	8	25
India (b)—						
Scrap	123	34	3	53	85	10
Malaysia (West)—						
Ore	n.a.	n.a.	n.a.	n.a.	798	1,254
Unwrought	n.a.	n.a.	n.a.	n.a.	73,287	71,410
Semi-manufactures (a)	n.a.	n.a.	n.a.	n.a.	182	39
Australia—						
Ore and concentrates						
(Sn content)	178	27	139	321	682	1,313
Unwrought	1	—	7	1	—	1
do. alloys	1	2	39	8	7	4
New Zealand—						
Scrap	n.a.	n.a.	(d) 5,336	(d) 4,926	(d) 4,746	(d) 7
OTHER COUNTRIES						
Austria—						
Unwrought (a)	92	1	38	55	41	26
Belgium-Luxemburg E.U.—						
Unwrought	4,405	6,803	6,319	4,506	3,896	4,215
do. alloys	124	93	60	68	215	89
Scrap	301	166	342	317	223	174
Semi-manufactures (a)	195	296	359	209	179	239
Denmark—						
Unwrought	111	18	53	44	54	67
do. alloys	3,873	632	653	729	608	760
Scrap	—	—	4	—	336	—
Semi-manufactures (a)	24	19	29	31	38	27
France—						
Ore	257	465	371	643	642	560
Unwrought	32	18	35	70	75	89
do. alloys	143	137	53	124	155	138
Semi-manufactures (a)	182	130	103	61	81	38

*In these tables the description "unwrought" tin corresponds to item 687.1 in the Standard International Trade Classification (Revised) and comprises ingots, pigs, unwrought bars, sticks, etc. "Semi-manufactures" corresponds to S.I.T.C. (R) 687.2 and includes foil and powder as well as sheets, strip, wire, pipes, tubes, etc.

(a) Including alloys.

(b) Years ended March 31 following that stated.

(c) Figures for 1961 to 1963 relate to Rhodesia and Nyasaland.

(d) Year ended June 30 of that stated.

EXPORTS OF TIN, ETC. (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (Federal)—						
Ore	<i>n.a.</i>	84	81	81	66	59
Unwrought (a)	18,557	1,651	1,365	1,478	1,581	1,632
Scrap	<i>n.a.</i>	3	111	59	78	30
Semi-manufactures (a)	160	82	129	120	168	171
Italy—						
Unwrought (a)	27	<i>r</i> 205	23	241	162	255
Semi-manufactures (a)	19	<i>r</i> 53	9	6	7	8
Netherlands—						
Unwrought	8,583	4,157	4,187	13,813	15,651	11,659
do. alloys	3,989	504	666	605	313	232
Scrap (a)	311	281	555	323	378	334
Semi-manufactures (a)	233	322	260	367	288	362
Norway—						
Unwrought (a)	405	271	234	292	239	238
Semi-manufactures (a)	—	2	—	4	4	5
Portugal—						
Ore	65	—	116	122	35	—
Unwrought	806	486	203	375	204	89
Spain—						
Unwrought	10	—	—	494	260	41
Sweden—						
Unwrought	16	24	3	37	81	79
do. alloys	128	213	121	96	74	65
Switzerland—						
Unwrought	14	10	18	36	43	52
Scrap	254	195	164	132	134	85
Semi-manufactures (a)	33	37	35	23	26	29
U.S.S.R.—						
Unwrought	5,600	500	700	—	7	7
Cameroun—						
Ore	89	120	36	76	78	<i>n.a.</i>
Congo Republic (c)—						
Ore (b)	10,000	10,000	9,000	8,000	7,000	6,500
Unwrought	—	1,056	1,031	(b) 1,500	(b) 1,500	(b) 1,700
Congo (Republic of)—						
Ore	55	70	39	59	70	43
Niger—						
Ore	50	6	60	6	64	63
South Africa—						
Concentrates	1,394	1,422	1,730	978	1,125	943
South West Africa—						
Ore and concentrates ..	176	153	293	296	462	664
United States—						
Unwrought (a)	543	335	1,544	2,726	2,606	1,866
Scrap (a)	6,110	4,342	4,975	4,844	1,133	7,012
Semi-manufactures (a)	4,396	646	887	1,049	221	221
Argentina—						
Ore	183	137	47	70	16	3
Tin-silver ore	1,160	1,374	1,384	1,749	2,190	3,219
Bolivia—						
Ores, concentrates, etc.						
(<i>Sn content</i>)	18,478	18,494	20,290	20,499	20,422	24,742
Unwrought	1,840	1,882	2,209	2,461	3,406	1,083
Peru—						
Concentrates						
(<i>Sn content</i>)	16	23	21	39	12	19
Unwrought						
(<i>Sn content</i>)	29	7	6	—	77	33
Burma—						
Ore and concentrates						
(<i>Sn content</i>)	1,325	1,412	1,467	720	301	124

(a) Including alloys.

(b) Estimated.

(c) Including Rwanda and Burundi.

EXPORTS OF TIN, ETC. (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
China—						
Unwrought (b)	18,000	15,000	12,000	7,000	7,000	5,000
Indonesia—						
Ore	23,127	27,386	21,062	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
<i>Sn content</i>	16,788	16,710	(b) 12,000	(b) 15,000	<i>n.a.</i>	<i>n.a.</i>
Unwrought	1,796	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Unwrought	<i>n.a.</i>	19	24	33	157	211
Semi-manufactures (a)	103	351	1,026	78	177	112
Laos—						
Ore (<i>Sn content</i>) ..	550	514	402	495	366	463
Thailand—						
Ore (<i>Sn content</i>) ..	13,122	14,244	15,428	15,666	10,758	454

(a) Including alloys.

(b) Estimated.

IMPORTS OF TIN, ETC.*

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore and concentrates ..	51,364	50,058	44,883	43,518	44,606	55,697
Unwrought (a) ..	(b) 582	8,361	7,742	8,685	9,128	9,893
Ghana—						
Unwrought (a) ..	10	7	6	7	19	—
Semi-manufactures (a) ..	112	521	138	164	51	184
Kenya—						
Unwrought (a) ..	99	121	203	43	72	77
Mauritius—						
Unwrought (a) ..	5	4	5	5	2	3
Semi-manufactures (a) ..	11	—	8	17	5	3
Nigeria—						
Unwrought and semi-manufactures (a) ..	18	74	4	237	142	641
Rhodesia (d)—						
Unwrought and semi-manufactures (a) ..	77	48	132	78	76	n.a.
Tanzania—						
Unwrought (a) ..	67	47	58	20	34	18
Uganda—						
Unwrought (a) ..	41	36	39	32	25	20
Zambia—						
Unwrought and semi-manufactures (a) ..	n.a.	n.a.	n.a.	41	53	69
Canada—						
Unwrought ..	3,525	2,274	4,193	4,849	4,993	4,254
Semi-manufactures ..	12	6	6	n.a.	26	9
Barbados—						
Unwrought (a) ..	3	5	3	2	5	4
Semi-manufactures (a) ..	85	169	195	284	227	300
Jamaica—						
Unwrought (a) ..	21	36	28	186	14	31
Semi-manufactures (a) ..	945	428	5	27	232	24
Trinidad and Tobago—						
Unwrought (a) ..	72	60	38	58	13	12
Semi-manufactures (a) ..	212	495	731	2,581	4,124	4,061
Guyana—						
Unwrought (a) ..	12	14	n.a.	16	15	23
Semi-manufactures (a) ..	9	3	n.a.	3	9	1
Aden—						
Semi-manufactures (a) ..	1,296	1,220	1,098	1,693	873	710
Ceylon—						
Unwrought ..	17	11	40	30	14	53
do. alloys ..	23	33	22	14	2	41
Semi-manufactures (a) ..	1,704	2,480	3,900	4,346	2,211	2,985
Cyprus—						
Unwrought (a) ..	12	14	9	8	6	—
Hong Kong—						
Unwrought (a) ..	71	178	108	14	94	51
Scrap ..	20	44	8	4	3	3
Semi-manufactures (a) ..	2	5	(b) 3	—	(b) 10	(b) 9
India—						
Unwrought ..	4,566	4,672	4,403	5,043	4,657	2,559
Semi-manufactures (a)(c) ..	43	20	172	114	122	54
Malaysia (West)—						
Ore ..	n.a.	n.a.	n.a.	n.a.	10,696	3,242
Unwrought (a) ..	n.a.	n.a.	n.a.	n.a.	167	203
Semi-manufactures (a) ..	n.a.	n.a.	n.a.	n.a.	50	59

*See footnote on page 360 concerning the descriptions "unwrought" tin and "semi-manufactures" used in these tables.

(a) Including alloys.

(c) Years ended March 31 following that stated.

(b) Excess of re-exports.

(d) Figures for years 1961 to 1963 relate to Rhodesia and Nyasaland.

IMPORTS OF TIN, ETC. (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES (cont.)						
Pakistan—						
Unwrought (a) ..	489	461	380	683	n.a.	n.a.
Sabah—						
Unwrought	174	182	253	7	12	12
Semi-manufactures ..	130	205	11	25	8	12
Australia—						
Unwrought	778	1,778	1,751	1,283	1,582	203
Semi-manufactures (b) ..	23	6	17	20	35	21
Fiji—						
Semi-manufactures (a)	140	153	192	311	308	274
Sarawak—						
Unwrought and semi-manufactures (a) ..	7	3	33	6	36	120
New Zealand—						
Unwrought (a) ..	291	380	} 397	{ (b) 364	(b) 434	(b) 388
Semi-manufactures (a)	30	59		{ (b) 15	(b) (c) 2	(b) 16
Irish Republic—						
Unwrought (a) ..	56	44	49	70	47	63
OTHER COUNTRIES						
Austria—						
Unwrought (a) ..	788	722	782	632	599	564
Semi-manufactures (a)	26	24	36	37	31	42
Belgium-Luxemburg						
E.U.—						
Ore	10,107	9,976	8,630	6,560	5,616	6,797
Unwrought	764	1,575	2,417	3,023	2,235	3,080
do. alloys	164	130	1,556	148	145	175
Scrap	20	3	45	15	1	23
Semi-manufactures (a)	159	125	117	130	152	191
Denmark—						
Unwrought	3,653	508	576	631	687	581
do. alloys	72	102	185	548	261	459
Scrap	451	558	279	124	70	93
Semi-manufactures (a)	109	122	111	108	96	94
Finland—						
Unwrought (a) ..	645	512	330	315	442	360
France—						
Unwrought	10,043	11,209	10,998	11,061	9,973	10,441
do. alloys	598	63	51	24	69	104
Scrap	68	59	87	81	40	38
Semi-manufactures (a)	28	26	26	53	115	38
Germany (Federal)—						
Ore	6,285	7,977	8,365	7,539	7,816	7,373
Unwrought (a) ..	27,913	12,084	11,597	13,608	13,492	12,941
Scrap (a)	403	225	358	212	388	196
Semi-manufactures (a)	11	28	21	19	34	18
Greece—						
Unwrought	273	260	241	265	240	258
Hungary—						
Unwrought	1,053	962	1,162	991	1,730	1,429
Iceland—						
Semi-manufactures (a)	35	50	14	12	15	14
Italy—						
Unwrought r	4,870	r 4,712	5,168	r 4,795	5,101	5,686
do. alloys r	449	r 910	718	412	321	224
Scrap r	7	9	9	1	6	—
Semi-manufactures (a) r	60	r 79	120	r 71	39	82

(a) Including alloys.

(b) Years ended June 30 of that stated.

(c) Excess of re-exports.

IMPORTS OF TIN, ETC. (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Netherlands—						
Ore	4,154	7,527	7,804	28,782	24,022	15,880
Unwrought	2,148	2,515	2,954	1,227	879	3,184
do. alloys	11,966	195	129	275	309	483
Scrap (a)	59	60	143	170	330	286
Semi-manufactures (a)	38	81	66	71	64	58
Norway—						
Unwrought	196	318	308	322	417	417
do. alloys	338	146	203	215	179	177
Semi-manufactures (a)	177	213	220	302	296	354
Poland—						
Unwrought	3,098	2,169	2,429	2,518	2,518	3,421
Portugal—						
Unwrought (a) .. .	4	6	6	10	12	7
Semi-manufactures (a)	14	10	17	26	13	9
Spain—						
Ore	2,269	1,041	2,779	3,168	2,397	3,094
Unwrought	206	25	74	29	24	163
Sweden—						
Unwrought	727	800	612	707	904	675
do. alloys	133	107	164	85	214	85
Semi-manufactures (a)	113	101	114	106	103	104
Switzerland—						
Unwrought	1,167	1,091	1,002	727	965	865
Semi-manufactures (a)	111	87	88	90	88	141
U.S.S.R.—						
Unwrought	11,000	9,700	7,700	5,400	5,700	4,700
Yugoslavia—						
Unwrought	1,375	897	2,151	1,373	1,224	1,378
Semi-manufactures (a)	10	21	23	19	13	35
Egypt—						
Unwrought and scrap ..	713	544	442	662	1,567	1,285
Semi-manufactures .. .	86	4	n.a.	n.a.	n.a.	n.a.
Malagasy Republic—						
Semi-manufactures (a)	11	6	13	6	3	3
Morocco—						
Unwrought	261	280	298	250	199	n.a.
Mozambique—						
Semi-manufactures .. .	33	42	46	48	41	56
South Africa—						
Unwrought	670	504	794	562	440	386
Sudan—						
Unwrought and scrap ..	34	35	22	38	22	1
Semi-manufactures .. .	n.a.	n.a.	107	258	23	59
Tunisia—						
Unwrought (a) .. .	34	10	15	18	28	} 31
Semi-manufactures (a)	12	10	11	66	10	
Mexico—						
Unwrought	178	191	525	347	548	482
United States—						
Ore (<i>S_n</i> content) .. .	8,917	5,364	1,473	8,743	4,326	4,372
Unwrought	39,898	41,064	43,151	31,582	40,816	41,624
do. alloys (b) .. .	612	2,517	268	1,198	2,622	875
Scrap	18	6,570	2,154	976	335	89

(a) Including alloys.

(b) Including alloyed scrap, dross and residues.

IMPORTS OF TIN, ETC. (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Argentina—						
Unwrought	1,958	954	1,189	1,476	1,319	1,467
Brazil—						
Ore	2,143	1,843	2,942	923	1,184	234
Unwrought (a)	15	1	1	2	1	1
Colombia—						
Unwrought (a)	141	126	265	115	97	252
Semi-manufactures (a)	61	66	42	14	3	16
Chile—						
Unwrought	860	580	611	797	791	<i>n.a.</i>
Peru—						
Unwrought (a)	79	61	136	100	229	182
Uruguay—						
Unwrought	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	46	27
Venezuela—						
Unwrought	139	174	191	147	125	124
Burma—						
Unwrought	29	21	5	44	1	<i>n.a.</i>
Semi-manufactures (a)	51	24	6	—	—	<i>n.a.</i>
Formosa—						
Unwrought (a)	106	165	185	102	227	381
Iran (b)—						
Unwrought	322	205	276	216	239	236
Iraq—						
Unwrought	16	27	123	29	<i>n.a.</i>	<i>n.a.</i>
Semi-manufactures	68	63	65	32	<i>n.a.</i>	<i>n.a.</i>
Israel—						
Unwrought	72	93	101	149	120	126
Japan—						
Ore and concentrates	763	927	1,509	2,811	762	1,687
Unwrought	11,969	11,613	14,357	16,026	14,619	16,838
Jordan—						
Semi-manufactures	26	26	33	18	16	31
Korea (South)—						
Unwrought and semi-manufactures	161	313	215	261	125	214
Lebanon—						
Unwrought	13	11	10	7	16	14
Philippine Republic—						
Unwrought (a)	214	469	597	4,530	591	<i>n.a.</i>
Syria—						
Unwrought and scrap	93	70	60	84	82	80
Turkey—						
Unwrought (a)	366	884	486	844	905	1,060
Semi-manufactures (a)	22	353	15	7	3	2

(a) Including alloys.

(b) Years ended March 20 of year following that stated.

TITANIUM MINERALS
PRODUCTION OF TITANIUM MINERALS

Long tons

Producing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Sierra Leone—						
Rutile concentrates ..	—	—	(a) 100	—	—	—
Canada (shipments) (b)—						
Ilmenite.. ..	1,032,122	665,851	817,286	1,239,520	1,177,145	1,129,181
Ceylon—						
Ilmenite.. ..	10,000	4,153	(a) 19,857	45,429	(a) 59,588	(a) 40,549
India—						
Ilmenite.. ..	171,445	135,930	25,553	11,851	29,587	29,691
Rutile	802	1,581	1,841	1,841	1,296	1,787
Malaysia (West) (a)—						
Ilmenite	106,871	101,368	146,718	129,222	121,566	116,386
Australia—						
Ilmenite concentrates (c)	166,400	179,494	201,530	304,284	441,414	517,716
Rutile concentrates ..	101,431	119,195	183,260	182,371	217,330	244,528
OTHER COUNTRIES						
Finland—						
Ilmenite concentrates ..	18,993	85,812	93,000	114,230	105,138	115,703
Norway—						
Ilmenite.. ..	306,003	247,132	238,429	267,727	277,690	363,887
Portugal—						
Ilmenite.. ..	97	67	40	56	74	473
Spain—						
Ilmenite.. ..	29,629	41,014	49,772	43,230	19,792	41,561
Egypt—						
Ilmenite.. ..	42,389	43,937	532	21	—	542
Rutile	(f) 1,000	177	4	—	—	33
Malagasy Republic—						
Ilmenite.. ..	3,250	3,134	3,595	4,800	6,211	6,090
Senegal—						
Ilmenite.. ..	17,220	22,078	11,996	1,299	—	—
Rutile	174	724	697	53	—	—
South Africa—						
Ilmenite.. ..	88,402	77,764	27,713	—	—	—
Rutile	3,110	3,192	1,237	—	—	—
Mexico—						
Ilmenite.. ..	—	—	139	—	—	—
United States (e)—						
Ilmenite (d)	653,939	721,183	793,214	893,868	865,588	861,945
Rutile	8,076	8,912	10,638	7,198	n.a.	n.a.
Brazil—						
Ilmenite (g)	4,703	5,260	5,691	8,140	9,639	13,321
Rutile	218	129	321	223	310	n.a.
Japan (h)—						
Ilmenite.. ..	5,883	4,705	4,376	4,779	3,413	5,337
WORLD'S TOTAL*—						
Ilmenite	2,660,000	2,300,000	2,400,000	3,100,000	3,100,000	3,200,000
Rutile	115,000	134,000	198,000	192,000	220,000	250,000

*Excluding the U.S.S.R.

(a) Exports.

(b) Production of titanium dioxide slag (70–72% TiO₂) at Sorel was as follows (long tons):

1961—413,675; 1962—269,150; 1963—338,679; 1964—486,358; 1965—487,425; 1966—468,547.

(c) Despatches. Including leucoxene.

(d) Contains a mixed product containing ilmenite, leucoxene and rutile.

(e) Production of metal (commercial titanium sponge) was as follows (long tons):

1961—6,006; 1962—6,009; 1963—7,035; 1964—n.a.; 1965—n.a.; 1966—n.a.

(f) United States Bureau of Mines' estimate.

(g) Commissao Nacional de Energie Nuclear only.

(h) Production of metal (commercial titanium sponge) was as follows (long tons):

1961—2,247; 1962—1,489; 1963—1,731; 1964—2,945; 1965—4,764; 1966—6,330.

EXPORTS OF TITANIUM MINERALS, ETC.

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ferro-titanium	533	552	1,024	1,076	1,251	1,085
Sierra Leone—						
Rutile concentrates ..	—	—	100	—	—	7
Canada—						
Titanium dioxide slag (70% TiO ₂)	(a)	(a)	(a)	(a)	(a)	(a)
Ceylon—						
Ilmenite	—	2,750	19,857	36,982	59,588	40,549
India—						
Ilmenite	123,235	99,649	75,248	26,102	14,857	31,569
Malaysia (West)—						
Ilmenite	106,871	101,368	146,718	129,222	121,566	116,386
Singapore—						
Titanium oxide	n.a.	124	150	112	111	136
Australia—						
Rutile	99,652	117,291	154,508	193,893	239,454	231,289
Ilmenite	144,009	155,075	152,040	246,056	360,719	356,462
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Titanium oxide	5,715	9,897	6,228	1,563	3,223	3,897
do, extended	134	34	3,975	10,648	10,322	9,764
Finland—						
Ilmenite	34,397	37,176	62,305	49,785	82,608	49,864
Titanium oxide	n.a.	n.a.	n.a.	1,496	19,535	21,109
France—						
Titanium minerals	725	175	70	5	1,303	555
Ferro-titanium	1,619	1,064	1,387	1,754	2,414	2,228
Titanium oxide	6,917	6,664	7,744	10,508	10,557	5,780
do, extended	10,230	14,293	17,714	23,507	22,507	26,309
Germany (Federal)—						
Titanium minerals	n.a.	87	221	427	253	619
Titanium oxide	48,285	49,813	53,288	54,808	32,232	28,864
do, extended	n.a.	85	1,267	14,100	37,554	49,006
Italy—						
Titanium oxide	7,287	11,519	15,066	13,069	17,339	18,919
Netherlands—						
Titanium oxide	598	106	2,575	6,090	8,492	10,557
do, extended	51	14	51	86	32	564
Norway—						
Ilmenite	298,549	230,094	236,711	275,039	319,118	344,517
Rutile						
Titanium oxide, extended						
Titanium oxide, extended	2,504	1,982	1,650	3,122	5,261	7,865
Spain—						
Ilmenite	18,966	24,413	20,432	26,299	18,806	9,744
Titanium oxide	878	1,428	1,203	1,648	1,766	1,587
Sweden—						
Titanium minerals	48	26	25	25	43	28
Titanium oxide	21	26	18	24	82	66
do, extended	2	49	66	—	—	—
Cameroun—						
Rutile	—	10	—	—	n.a.	n.a.
Senegal—						
Ilmenite	21,317	22,599	13,658	2,114	—	—
South Africa—						
Ilmenite	80,494	59,356	14,459	16,194	n.a.	n.a.
Rutile	1,874	289	—	—	—	—

(a) Information not available. Most of the titanium dioxide slag produced in Canada (figures on page 367) is believed to be exported.

EXPORTS OF TITANIUM MINERALS, ETC. (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
United States—						
Ores and concentrates..	1,282	1,093	1,082	1,929	1,073	1,161
Titanium metal (a) ..	1,134	1,231	1,567	2,395	2,444	1,547
Ferro-titanium	189	116	188	483	<i>n.a.</i>	<i>n.a.</i>
Titanium oxide and pigments	27,771	25,977	23,841	26,213	24,014	24,328
Brazil—						
Titanium minerals ..	20	—	—	—	—	9
Japan—						
Titanium sponge metal	1,620	989	1,189	1,549	3,264	4,474
Titanium oxide.. ..	16,199	21,692	23,576	35,411	37,511	37,148

(a) Including alloys and scrap.

IMPORTS OF TITANIUM MINERALS, ETC.

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ilmenite.. ..	273,354	275,890	226,810	178,969	266,477	244,947
Rutile	13,842	15,629	18,267	13,955	17,225	16,953
Other titanium minerals	—	—	—	(e) 20,924	—	—
Titanium sponge	(c) 7	31	n.a.	(d) 1,706	(d) 2,409	(d) 1,865
Other titanium metal	9	9	n.a.			
Titanium oxide.. ..	1,915	1,880	3,895	2,761	3,134	2,782
Canada—						
Titanium oxide	} 23,769	11,268	3,006	1,642	1,397	4,453
do, extended		11,003	8,321	9,324	8,512	8,727
Hong Kong—						
Titanium oxide.. ..	1,788	2,246	2,137	2,237	2,262	2,456
India—						
Rutile	332	95	—	336	743	998
Titanium oxide (b)	1,477	2,392	2,793	3,002	2,758	3,805
Malaysia (West)—						
Titanium oxide	n.a.	n.a.	n.a.	n.a.	904	1,400
Singapore—						
Titanium oxide.. ..	n.a.	95	466	547	581	744
Australia (a)—						
Titanium oxide.. ..	7,046	4,644	6,075	3,149	3,384	1,464
New Zealand—						
Titanium oxide.. ..	3,558	3,494	(a) 3,783	(a) 4,286	(a) 4,849	(a) 1,639
Irish Republic—						
Titanium oxide.. ..	1,358	1,356	1,594	2,096	2,138	1,750
OTHER COUNTRIES						
Austria—						
Ferro-titanium	192	139	162	103	185	226
Titanium oxide.. ..	3,605	3,805	4,221	4,815	4,734	5,153
Belgium-Luxemburg						
E.U.—						
Ferro-titanium	319	182	216	225	251	143
Titanium oxide	4,748	5,425	6,398	6,862	8,274	10,137
do, extended	950	1,658	1,361	1,659	1,979	2,417
Denmark—						
Titanium oxide	3,649	4,607	4,709	5,362	5,762	5,855
do, extended	204	218	189	172	139	102
Finland—						
Titanium oxide	3,949	2,269	1,072	1,526	1,390	756
France—						
Titanium minerals	75,933	80,702	95,020	134,711	93,420	108,771
Titanium metal	73	175	262	250	292	332
Titanium oxide.. ..	6,441	9,661	9,595	12,727	14,488	17,033
do, extended	220	40	83	87	492	3,332
Germany (Federal)—						
Ilmenite.. ..	264,845	208,954	220,473	207,808	275,967	227,078
Other titanium minerals	96,282	68,574	58,792	142,654	128,983	138,689
Titanium metal	189	274	352	693	758	1,030
Titanium oxide.. ..	321	592	1,082	1,583	1,783	3,072
do, extended	n.a.	2,402	3,486	4,345	7,818	9,391
Greece—						
Titanium oxide.. ..	890	1,023	1,339	1,580	1,749	2,082
Hungary—						
Ferro-titanium	87	88	88	98	n.a.	n.a.
Iceland—						
Titanium oxide, extended	242	215	227	236	77	1

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

(c) Excess of re-exports.

(d) Owing to reclassification, not strictly comparable with earlier years.

(e) Imports from Canada; probably titanium dioxide slag.

IMPORTS OF TITANIUM MINERALS, ETC. (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Italy—						
Titanium minerals .. r	81,363	67,802	97,351	110,456	84,552	113,085
Ferro-titanium .. r	489	458	401	528	771	607
Titanium oxide ..	7,958	10,653	13,478	14,366	15,744	17,840
do, extended ..	198	147	156	140	103	76
Netherlands—						
Ferro-titanium ..	43	28	37	40	41	68
Titanium oxide ..	16,234	17,054	11,210	2,218	3,898	1,794
do, extended ..	1,413	1,341	9,019	14,839	10,402	13,868
Norway—						
Titanium oxide ..	1,866	820	1,079	—	—	—
do, extended ..	2,647	5,507	5,290	5,183	4,868	3,902
Poland—						
Titanium oxide ..	1,990	n.a.	2,891	3,144	4,338	6,570
Portugal—						
Rutile ..	255	326	n.a.	200	341	549
Titanium oxide ..	1,271	1,430	1,670	1,999	2,157	2,394
Spain—						
Ilmenite ..	29	30	3,474	3,936	53	7,334
Titanium oxide ..	212	947	1,679	2,482	3,687	5,244
Sweden—						
Titanium minerals ..	3,418	4,423	3,612	3,419	3,632	4,468
Ferro-titanium ..	644	264	736	1,167	1,406	1,423
Titanium oxide ..	9,085	11,778	12,524	13,147	9,648	11,734
do, extended ..	911	788	701	—	—	—
Switzerland—						
Titanium oxide ..	4,943	6,078	5,503	6,721	6,953	6,872
Yugoslavia—						
Rutile ..	424	680	1,645	1,194	1,119	1,840
Titanium oxide ..	897	1,382	1,589	3,008	1,522	2,700
Morocco—						
Titanium oxide ..	236	286	391	331	361	n.a.
do, extended ..	1	n.a.	1	n.a.	191	n.a.
Tunisia—						
Titanium oxide ..	83	87	148	182	251	n.a.
Costa Rica—						
Titanium oxide ..	n.a.	157	141	n.a.	n.a.	n.a.
Mexico—						
Titanium oxide ..	207	60	1,537	21	1,196	102
United States—						
Ilmenite (a) .. r	184,956	148,802	179,357	154,660	148,496	166,553
Rutile ..	24,551	32,112	64,277	99,090	135,489	135,251
Titanium metal ..	2,223	825	1,320	1,835	2,798	5,339
Ferro-titanium ..	163	107	37	n.a.	15	—
Titanium compounds ..	8,056	14,800	22,569	36,348	44,364	(b) 42,846
Argentina—						
Titanium oxide ..	4,534	4,363	2,887	7,159	4,905	6,107
Brazil—						
Titanium oxide ..	4,278	5,371	6,982	6,464	6,455	9,764
Chile—						
Titanium oxide extended ..	1,652	1,275	2,471	n.a.	2,011	n.a.
Colombia—						
Titanium oxide ..	1,745	2,119	2,742	2,234	271	1,602
Peru—						
Titanium oxide ..	635	755	721	1,012	71	1,415
Venezuela—						
Titanium oxide ..	107	194	196	314	330	312
do, extended ..	2,086	2,108	2,257	3,207	2,917	2,679
Formosa—						
Titanium oxide ..	374	526	721	1,363	1,564	2,291

(a) Including titanium dioxide slag (70% TiO₂) imported from Canada.

(b) Dioxide only.

IMPORTS OF TITANIUM MINERALS, ETC. (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES (cont.)						
Iran (a)—						
Titanium oxide ..	<i>n.a.</i>	97	116	304	414	642
Japan—						
Ilmenite.	139,792	120,366	139,649	183,049	208,602	319,820
Titanium oxide..	2,122	59	65	193	249	716
Korea (South)—						
Titanium oxide ..	999	1,291	967	1,580	1,569	1,651
Philippine Republic—						
Titanium oxide..	1,527	2,156	1,955	2,259	2,324	<i>n.a.</i>
do, extended ..	428	522	841	744	1,185	<i>n.a.</i>
Turkey—						
Titanium oxide ..	910	973	1,383	1,396	2,502	2,782

(a) Years ended March 20 of year following that stated.

TUNGSTEN

PRODUCTION OF TUNGSTEN ORES AND CONCENTRATES

Long tons

Producing Country and Description	Estimated WO ₃ Content					
	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Nigeria—	—	—	—	—	—	—
Wolfram ..	—	—	—	—	1	1
Rhodesia—	—	—	—	—	—	—
Concentrates ..	46	19	3	—	n.a.	n.a.
Tanzania—	—	—	—	—	—	—
Wolfram ..	9	—	—	—	11	7
Uganda—	—	—	—	—	—	—
Wolfram ..	115	11	2	—	41	78
Canada (a)—	—	—	—	—	—	—
Concentrates ..	—	3	n.a.	n.a.	n.a.	1,774
Hong Kong—	—	—	—	—	—	—
Wolfram ..	17	15	7	1	6	5
India—	—	—	—	—	—	—
Concentrates ..	9	10	4	7	13	15
Malaysia (West)—	—	—	—	—	—	—
Wolfram ..	14	9	6	5	14	4
Scheelite ..	17	—	—	(b) 1	—	—
Australia—	—	—	—	—	—	—
Wolfram ..	1,142	492	394	380	487	365
Scheelite ..	1,017	995	958	1,020	1,150	940
New Zealand—	—	—	—	—	—	—
Scheelite ..	5	8	5	5	—	2
TOTAL ..						
	1,696	1,092	980	1,010	2,954	3,190
OTHER COUNTRIES						
Austria—	—	—	—	—	—	—
Concentrates ..	242	250	192	93	169	81
Finland—	—	—	—	—	—	—
Concentrates ..	n.a.	—	—	—	—	—
	31	—	—	—	—	—

(a) Shipments (chiefly scheelite).

(b) Exports.

PRODUCTION OF TUNGSTEN ORES AND CONCENTRATES (cont.)

Producing Country and Description	Long tons											
	1961	1962	1963	1964	1965	1966	Estimated WO ₃ Content					
							1961	1962	1963	1964	1965	1966
OTHER COUNTRIES (cont.)												
France— Concentrates	647	614	—	—	—	22	432	414	—	—	—	19
Italy— Concentrates	2	1	2	1	1	1	1	—	1	1	—	1
Portugal— Scheelite	68	52	} 1,309	1,401	1,329	1,601	44	34	956	1,043	970	1,180
Wolfram	2,442	1,947					1,710	1,444				
Spain— Concentrates	441	248	46	27	n.a.	n.a.	286	179	32	18	27	58
Tin-tungsten concentrates	775	568	212	8	n.a.	n.a.	352	237	55	4		
Sweden— Concentrates	366	334	334	—	—	—	185	158	161	—	—	—
U.S.R. (b)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	5,900	6,200	6,500	6,500	6,800	6,800
Yugoslavia	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	5	31	10	76	(b) 77	64
Congo Republic— Concentrates	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	319	217	119	138	127	111
Tin-tungsten ore	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.						
Egypt— Concentrates	n.a.	—	—	—	—	—	49	—	—	—	—	—
Rwanda and Burundi— Concentrates	527	136	14	n.a.	n.a.	n.a.	393	88	7	89	162	n.a.
South Africa— Concentrates	24	22	7	4	4	7	16	14	4	2	3	5
South West Africa— Scheelite	6	2	—	—	1	1	4	1	—	—	1	1
Tin-wolfram concentrates	579	575	753	660	588	607	105	91	148	133	118	165
Mexico	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	102	47	20	5	108	85
United States— Concentrates (a)	7,362	7,526	5,051	8,254	7,097	7,957	4,417	4,515	3,031	4,952	4,258	4,775

(a) Shipments from mine.

(b) United States Bureau of Mines' estimate.

PRODUCTION OF TUNGSTEN ORES AND CONCENTRATES (cont.)

Long tons

Producing Country and Description	Estimated WO ₃ Content					
	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES (cont.)						
Argentina—						
Concentrates	735	513	148	n.a.	128	150
Bolivia (a)—						
Concentrates	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Brazil—						
Wolfram and scheelite ..	1,013	1,018	456	r 314	313	n.a.
Peru—						
Concentrates	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Burma—						
Tungsten concentrates ..	352	212	88	85	n.a.	n.a.
Tin-wolfram concentrates	1,203	1,152	1,279	958	n.a.	n.a.
China—						
Concentrates (b)	22,000	22,000	22,000	20,000	17,000	17,000
Japan—						
Concentrates	812	906	640	704	586	576
Korea—						
South—						
Concentrates	6,203	5,706	4,662	4,582	3,777	3,629
North—						
Concentrates (b)	5,000	4,000	4,000	4,000	4,000	4,000
Thailand—						
Concentrates	467	387	187	391	503	511
TOTAL						
World's TOTAL						
	39,000	37,000	r 32,000	33,000	30,000	31,000
	41,000	38,000	r 33,000	34,000	33,000	34,000

(a) Exports.
 (b) Estimated.
 (c) Recoverable.

EXPORTS OF TUNGSTEN, ETC.

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Tungsten ore	35	20	—	45	12	—
Ferro-tungsten	1,445	1,584	1,225	896	1,005	1,175
Tungsten metal, etc. ..	31	41	53	58	71	96
Nigeria—						
Tungsten ore	—	—	—	—	—	—
Rhodesia (d)						
Tungsten ores	33	26	2	<i>n.a.</i>	26	<i>n.a.</i>
Tanzania—						
Wolfram ore	9	<i>n.a.</i>	—	—	—	11
Uganda—						
Wolfram ore	189	—	6	18	64	104
Hong Kong—						
Tungsten ore	—	—	—	70	10	13
India—						
Wolfram ore	—	2	—	—	1	1
Malaysia (West)—						
Wolfram	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	5	19
Scheelite	14	—	—	1	1	—
Australia (a)—						
Wolfram ores and concentrates	1,055	760	452	475	361	560
(WO ₃ content)	767	555	327	343	269	345
Scheelite ores and concentrates	816	974	295	1,045	1,725	1,300
(WO ₃ content)	567	676	205	727	1,191	884
New Zealand—						
Scheelite	6	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
OTHER COUNTRIES						
Austria—						
Ore	196	298	207	79	189	99
Belgium-Luxemburg E.U.—						
Ferro-tungsten	101	118	96	19	10	—
France—						
Tungsten ore	388	478	106	63	5	3
Ferro-tungsten	301	274	215	168	260	451
Tungsten metal, etc. ..	68	65	71	171	201	260
Germany (Federal)—						
Tungsten metal, etc. ..	240	217	248	246	260	674
Netherlands—						
Ore	77	114	187	217	225	218
Portugal—						
Tungsten ores	2,584	2,008	1,133	1,292	1,101	1,134
do. residues	31	—	—	87	—	116
Ferro-tungsten	—	<i>n.a.</i>	<i>n.a.</i>	265	217	267
Spain—						
Tungsten ore	703	281	37	50	40	73
Sweden—						
Ore	47	—	18	222	33	24
Tungsten metal, etc. ..	45	26	96	31	33	75
Ferro-tungsten	20	104	169	71	86	147
Congo Republic (c)—						
Tungsten ores (b)	600	100	100	300	500	200
South Africa—						
Tungsten ore	—	—	4	20	3	4
South West Africa—						
Tungsten ore	—	3	—	—	—	—
Tin-tungsten ore	360	530	761	680	511	621

(a) Years ended June 30 of that stated. (b) Estimated. (c) Including Rwanda and Burundi.
 (d) Figures for years 1961 to 1963 relate to Rhodesia and Nyasaland.

EXPORTS OF TUNGSTEN, ETC. (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Mexico—						
Tungsten ore and concentrates	445	60	85	14	201	224
(WO ₃ content)	103	47	20	5	108	85
United States—						
Ore and concentrates	185	35	44	69	10	88
Ferro-tungsten	—	5	1	—	<i>n.a.</i>	<i>n.a.</i>
Tungsten metal, alloys and scrap	113	55	71	228	136	114
Tungsten powder	50	66	80	100	47	18
Argentina—						
Tungsten ore	15	2,067	1,026	5	24	49
Bolivia—						
Tungsten ore (WO ₃ content)	1,667	1,499	1,347	1,224	1,094	1,555
Brazil—						
Tungsten ores	861	615	785	323	419	335
Peru—						
Tungsten ore and concentrates (WO ₃ content)	186	234	172	578	445	425
Burma—						
Ore and concentrates	686	278	551	406	173	<i>n.a.</i>
Tin-tungsten ores	264	397	381	521	514	<i>n.a.</i>
Japan—						
Tungsten metal	18	23	55	15	105	84
Korea (South)—						
Tungsten ore	5,833	4,639	5,026	5,377	4,041	3,701
Thailand—						
Tungsten ore	246	190	253	74	206	804

IMPORTS OF TUNGSTEN, ETC.

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Tungsten ores	5,132	5,389	4,904	5,008	5,097	5,066
Tungsten metal, etc. ..	9	6	24	32	31	51
Ferro-tungsten	12	27	<i>n.a.</i>	180	202	102
Canada—						
Tungsten ore	224	1,274	288	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
<i>W</i> content	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	174	160	234
Ferro-tungsten	231	127	279	77	158	86
India—						
Tungsten ore	—	2	35	226	98	—
Australia (b)—						
Tungsten metal	10	10	16	34	31	18
OTHER COUNTRIES						
Austria—						
Tungsten ore	2,934	2,686	2,851	3,228	3,299	3,494
Tungsten metal, etc. ..	37	35	44	79	33	24
Ferro-tungsten	244	302	—	226	188	59
Belgium-Luxemburg						
E.U.—						
Tungsten ore	99	70	11	3	42	86
Ferro-tungsten	234	132	82	57	14	22
France—						
Tungsten ore	2,298	1,980	2,156	1,538	2,153	2,430
Tungsten metal, etc. ..	35	36	40	67	64	73
Germany (Federal)—						
Tungsten ore	5,240	4,681	3,913	4,831	6,024	5,228
Tungsten metal, etc. ..	161	122	79	347	442	1,156
Greece—						
Tungsten metal	—	260	39	180	1	<i>n.a.</i>
Italy—						
Tungsten ore	92	116	78	59	12	45
Tungsten metal, etc. ..	23	29	40	28	34	73
Ferro-tungsten	235	185	129	107	96	178
Netherlands—						
Tungsten ore	457	203	20	60	239	431
Ferro-tungsten	4	21	2	14	4	4
Poland—						
Tungsten concentrates ..	<i>n.a.</i>	<i>n.a.</i>	2,364	2,631	2,291	2,908
Sweden—						
Tungsten ore	1,070	1,312	1,277	1,285	1,851	1,873
Tungsten metal, etc. ..	82	75	68	93	131	151
Ferro-tungsten	396	260	256	402	693	709
U.S.S.R. (a)—						
Tungsten concentrates	18,000	12,800	11,800	5,900	5,900	3,000
Yugoslavia—						
Tungsten metal, etc. ..	4	6	16	30	36	40
Tungsten concentrates ..	91	422	15	203	58	<i>n.a.</i>
Ferro-tungsten	128	60	1	—	36	36
United States—						
Tungsten ore	1,767	3,260	2,413	2,449	3,055	3,346
(<i>WO₃</i> content)	1,775	1,799	1,366	1,405	1,615	1,919
Tungsten metal and carbide						
(<i>W</i> content)	25	222	37	27	20	<i>n.a.</i>
Ferro-tungsten	191	294	487	87	172	169
Tungsten ingots, bars, scrap, etc.	100	119	156	179	32	182
Japan—						
Tungsten ore	4,022	2,162	2,290	2,807	1,477	2,710
Tungsten metal	—	7	—	2	2	2

(a) Imports from China.

(b) Years ended June 30 of that stated.

URANIUM MINERALS
PRODUCTION OF URANIUM MINERALS
(Metal content)

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Canada (a)	7,299	6,382	6,323	5,516	3,364	2,977
.. ..	£ 68,929,772	52,701,539	45,332,644	27,716,372	20,691,256	18,058,024
Australia	(b) 1,250	1,083	919	280	n.a.	n.a.
OTHER COUNTRIES						
France	r 1,088	r 1,025	r 1,065	r 993	1,055	1,121
Portugal	n.a.	9	8	15	32	(b) 35
Spain	n.a.	n.a.	n.a.	76	97	n.a.
Congo Republic ..	121	—	—	—	—	—
Gabon	(b) 300	(b) 350	(b) 450	430	434	(b) 400
Malagasy Republic (c) ..	(b) 50	(b) 85	(b) 80	126	101	84
South Africa	4,149	3,789	3,435	3,375	2,231	2,489
.. ..	£ 645,000,000	640,000,000	637,000,000	635,000,000	623,000,000	626,000,000
United States (d)	13,136	12,879	10,765	8,970	7,906	7,180
.. ..	£ 103,000,000	97,000,000	80,400,000	68,000,000	60,000,000	54,000,000
Argentina	4	3	7	28	41	n.a.
WORLD'S TOTAL (b) ..	37,000	35,000	31,000	27,000	23,000	22,000

(a) Producers' shipments.

(b) Estimated.

(c) Uranium content of uranothorianite.

(d) In addition, the following quantities of uranium were recovered from phosphate rock (long tons): 1961—39; 1962—nil; 1963—nil; 1964—nil; 1965—nil; 1966—nil.

Uranium is known to have been produced in the U.S.S.R., in several Eastern European countries, Finland, Italy, Sweden, Western Germany, Mozambique, China, India and elsewhere. An allowance has been made for these countries in the world's total.

EXPORTS OF URANIUM MINERALS, ETC.

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Canada—						
Ores and concentrates £	67,883,901	55,549,230	45,540,191	24,777,024	17,810,184	12,061,692
OTHER COUNTRIES						
Congo Republic—						
Radium products						
(Ra content) Mgrams ..	26,900	28,700	18,300	18,100	n.a.	n.a.
Gabon—						
Concentrates Long tons ..	954	1,157	1,228	1,370	1,497	1,422
Malagasy Republic—						
Uranothorianite Long tons	394	535	474	610	414	353
South Africa—						
Concentrates (U ₃ O ₈ content) Long tons	n.a.	4,117	3,696	n.a.	n.a.	n.a.
£	n.a.	36,876,796	33,381,194	29,034,237	16,653,899	n.a.
Prescribed minerals						
(a) £	39,685,813	37,195,326	n.a.	n.a.	n.a.	n.a.
United States—						
Ores, concentrates and compounds Long tons	19	12	5	1	—	21
Metal and alloys Long tons	10	—	3	3	2	n.a.
Radium metal						
(Ra content) Mgrams.	334	328	311	177	n.a.	n.a.

(a) Mainly uranium but includes some thorium.

IMPORTS OF URANIUM MINERALS, ETC.

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Canada—						
Radium and compounds .. £	98,158	76,205	197,000	105,823	47,753	118,076
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Ore Long tons	2,443	—	—	—	22	—
France—						
Ore Long tons	120	1,396	1,912	1,880	2,204	1,714
Germany (Federal)—						
Ore Long tons	n.a.	23	6	23	—	—
United States—						
Concentrates Long tons						
(U ₃ O ₈ content)	11,531	10,429	7,859	4,729	2,366	1,829
Radium salts Mgrams.	12,947	46,962	44,660	n.a.	n.a.	n.a.

VANADIUM
PRODUCTION OF VANADIUM ORES
(Metal content)

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Zambia	95	3	—	—	—	—
OTHER COUNTRIES						
Finland	626	562	688	968	948	955
France (a)	54	—	56	33	83	71
South Africa	1,271	1,244	1,237	1,142	1,355	1,526
South West Africa	1,023	904	1,015	966	1,128	1,208
Mexico	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	—	1	<i>n.a.</i>
United States (c)	5,678	6,828	5,399	4,629	5,037	5,076
Argentina	10	8	2	2	—	<i>n.a.</i>
WORLD'S TOTAL (b) ..	8,800	9,500	8,400	7,700	8,600	8,800

(a) By-product vanadium from aluminium plants.

(b) Totals represent the sum of the countries shown and exclude vanadium ore known to have been produced in other countries. Vanadiferous iron concentrates (about 0.5% V) are produced in Norway.

(c) Shipments.

EXPORTS OF VANADIUM, ETC.

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom— Ferro-vanadium ..	19	5	3	5	117	61
OTHER COUNTRIES						
Belgium-Luxemburg E.U.— Ferro-vanadium ..	95	228	387	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Finland— Oxide	1,981	1,286	1,560	2,187	—	2,098
France— Ferro-vanadium ..	166	68	10	86	194	167
Italy— Ferro-vanadium ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	39	18	5
Oxide	45	—	—	—	—	—
Sweden— Ferro-vanadium ..	141	155	197	139	105	193
South Africa— Oxide	(b) 2,258	1,463	(c) 728	(d) 3,252	(e) 2,159	(f) 2,719
South West Africa— Concentrates (V content) (a) ..	700	600	900	900	800	1,000
United States— Ore, concentrates, etc. (V content)	1,858	902	478	1,099	695	1,412
Flue dust and other waste (V content) ..	82	73	829	97	<i>n.a.</i>	<i>n.a.</i>
Ferro-vanadium ..	107	179	164	92	197	430

(a) Estimated.

(b) Including 46 tons of ammonium vanadate.

(c) Including 24 tons of ammonium vanadate.

(d) Including 60 tons of ammonium vanadate.

(e) Including 45 tons of ammonium vanadate.

(f) Including 57 tons of ammonium vanadate.

IMPORTS OF VANADIUM, ETC.

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom (a)—						
Ferro-vanadium ..	71	24	59	85	239	81
Canada—						
Ferro-vanadium ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	232	290	427
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Ferro-vanadium ..	21	37	24	20	6	13
Oxide	264	437	501	968	403	452
France—						
Ore	—	252	—	—	—	—
Oxide	1,025	652	218	398	601	772
Hungary—						
Ferro-vanadium ..	89	138	109	129	<i>n.a.</i>	<i>n.a.</i>
Italy—						
Ore	1	—	—	—	—	—
Ferro-vanadium ..	<i>n.a.</i>	840	<i>n.a.</i>	179	334	334
Oxide	127	30	113	228	203	247
Netherlands—						
Ferro-vanadium ..	11	9	4	6	9	15
Sweden—						
Ferro-vanadium ..	61	37	52	76	156	359
United States—						
Ore	—	—	—	99	—	<i>n.a.</i>
(V content) ..	—	—	—	11	—	64
Japan—						
Ore	981	593	—	—	92	—

(a) Excluding vanadium contained in petroleum soot, slags and residues.

VERMICULITE
PRODUCTION OF VERMICULITE

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Kenya	—	20	91	33	22	75
Tanzania	140	64	27	129	90	158
India	622	426	666	422	720	492
OTHER COUNTRIES						
Egypt	—	279	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
South Africa	63,498	76,370	88,177	99,886	113,313	101,546
Sudan	50	—	—	—	—	—
United States (a)	184,497	183,703	202,034	202,053	222,636	234,215
Argentina	3,499	2,645	2,736	3,599	1,658	(b) 1,969
WORLD'S TOTAL*	252,000	264,000	294,000	306,000	339,000	339,000

*Excluding vermiculite produced in the U.S.S.R. and Brazil.

(a) Sold or used by producers.

(b) United States Bureau of Mines' estimate.

EXPORTS OF VERMICULITE

Long tons

Exporting Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Rhodesia (a)	1	4	4	22	<i>n.a.</i>	<i>n.a.</i>
OTHER COUNTRIES						
South Africa	63,455	69,527	80,768	96,620	94,596	87,768

(a) Figures for years 1961 to 1963 relate to Rhodesia and Nyasaland.

IMPORTS OF VERMICULITE

Long tons

Importing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom (a)	16,608	23,437	25,275	30,805	<i>n.a.</i>	<i>n.a.</i>
Canada	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	22,910	25,478	25,740
Australia (c)	(£162,116)	(£178,211)	(£189,842)	(£157,530)	(£188,221)	(£198,342)
	1,866	1,780	1,711	1,997	2,877	2,544
OTHER COUNTRIES						
France (b)	14,480	15,436	13,019	15,806	19,402	21,384
Greece	3	59	64	32	62	<i>n.a.</i>
Mexico	706	334	367	607	554	568
United States (a)	11,529	10,802	12,801	16,444	14,904	7,529
Venezuela	150	57	280	335	491	446

(a) Exports from South Africa to country stated.

(b) May include perlite, etc.

(c) Years ended June 30 of that stated.

ZINC

PRODUCTION OF ZINC ORE

(Metal content)

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Zambia (c)	29,861	39,800	48,670	45,974	46,687	41,654
Canada (h)	371,432	413,522	422,966	611,172	733,960	860,809
India	5,037	5,446	5,767	5,821	5,233	4,809
Australia	311,157	337,532	351,470	344,600	349,231	366,656
TOTAL	717,487	796,000	829,000	1,008,000	1,135,000	1,274,000
Irish Republic	164	—	—	—	1,283	21,780
OTHER COUNTRIES						
Austria	8,064	8,713	9,025	9,609	9,396	10,317
Bulgaria	54,600	61,700	57,000	63,200	65,200	<i>n.a.</i>
Finland (b)	45,860	51,347	65,305	61,996	67,920	53,516
France	15,432	17,175	17,911	16,575	20,572	23,000
Germany (Federal) (i)	85,883	85,707	91,716	94,318	93,128	97,098
Germany (East) (g)	7,000	7,000	7,000	7,000	8,000	9,000
Greece	17,104	16,747	12,148	10,088	<i>n.a.</i>	<i>n.a.</i>
Hungary	2,200	2,300	2,600	2,800	3,200	3,200
Italy	134,211	128,978	93,468	101,670	112,495	111,571
Norway	9,183	11,659	12,842	12,296	12,726	13,101
Poland	137,372	142,800	144,800	148,300	149,700	147,900
Portugal	—	11	168	937	2,905	2,308
Spain	86,592	77,281	90,284	87,062	38,606	55,290
Sweden	78,176	80,560	83,645	75,955	77,870	82,219
U.S.S.R. (c) (e)	400,000	430,000	440,000	450,000	470,000	500,000
Yugoslavia	58,936	60,148	60,298	65,027	90,368	82,005
Algeria	41,472	41,000	(e) 34,000	(e) 38,000	36,504	14,900
Congo Republic	97,525	93,681	101,910	103,874	117,272	113,036
Congo, Republic of	1,261	823	42	5,408	7,383	6,601
Morocco	40,135	33,876	32,516	41,677	50,409	45,952
South Africa	15	—	—	—	2	—
South West Africa	24,000	25,000	22,900	29,732	29,407	27,796
Tunisia	3,340	4,267	4,300	3,200	4,662	5,702
Greenland	6,714	2,145	—	—	—	—
Guatemala (b)	7,801	803	1,150	—	1,376	249
Honduras	(d) 6,117	6,480	(d) 7,352	8,433	10,951	12,197
Mexico	264,725	246,724	236,030	231,882	221,324	215,718
United States (b)	414,634	451,331	472,548	513,266	545,672	511,212
Argentina	31,706	30,928	28,283	22,551	29,210	30,000
Bolivia (a)	5,248	3,588	4,574	9,604	13,472	16,438
Brazil	—	—	—	—	5,167	<i>n.a.</i>
Chile	168	362	473	863	1,093	2,054
Colombia (g)	1,200	300	100	100	50	100
Ecuador	<i>n.a.</i>	162	353	373	232	133
Peru (b)	171,123	159,678	193,207	232,922	250,477	253,746
Burma	7,233	8,068	8,100	7,800	8,000	6,000
China (g)	100,000	100,000	100,000	100,000	100,000	100,000
Iran (f)	13,300	7,400	(g) 10,000	(g) 15,000	(g) 15,000	(g) 17,000
Japan	165,602	189,441	194,830	213,037	218,000	249,000
Korea (South)	450	400	1,100	2,500	7,000	11,500
Korea (North) (g)	90,000	90,000	100,000	100,000	105,000	105,000

- (a) Exports.
 (b) Recoverable.
 (c) Smelter production.
 (d) Imports into the United States.
 (e) Estimated.

- (f) Years ended March 20 of year following that stated.
 (g) United States Bureau of Mines' estimate.
 (h) Refined zinc plus recoverable zinc in ores, etc., exported.
 (i) Excluding zinc in pyrites.

PRODUCTION OF ZINC ORE (cont.)

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES (cont.)						
Philippine Republic ..	3,261	4,390	3,832	2,102	2,026	794
Thailand	886	(a) 900	(a) 900	(a) 1,400	(a) 2,000	(a) 2,500
Turkey	8,149	6,072	4,518	7,888	7,000	n.a.
TOTAL	2,600,000	2,700,000	2,800,000	2,900,000	3,000,000	3,000,000
WORLD'S TOTAL ..	3,300,000	3,500,000	3,600,000	3,900,000	4,100,000	4,300,000

Zinc ore is also produced in Czechoslovakia, Roumania and North Vietnam.

(a) Estimated.

METAL PRODUCTION OF ZINC

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom ..	92,884	97,276	99,028	109,282	105,127	99,745
Zambia	30,574	39,800	48,670	45,974	46,687	41,654
Canada	239,292	250,141	253,589	301,543	320,087	341,618
Australia	138,694	167,928	179,777	185,531	198,988	194,410
TOTAL	501,444	555,145	581,064	642,330	670,889	677,427
OTHER COUNTRIES						
Austria	11,876	11,897	11,673	12,692	12,906	13,977
Belgium	241,670	202,904	203,070	218,634	236,013	247,738
Bulgaria	21,772	50,908	55,179	57,648	64,725	(d) 60,000
France	164,000	166,500	170,600	190,900	192,700	197,400
Germany (Federal) ..	182,594	168,458	154,262	153,528	152,277	173,567
Germany (East) (a) ..	1,000	5,000	10,000	10,000	10,000	12,000
Hungary	1,200	1,500	1,500	1,400	1,500	(d) 1,500
Italy	78,256	76,835	72,403	r 71,699	79,620	76,901
Netherlands	38,967	36,464	35,197	37,107	40,176	40,704
Norway	46,009	44,266	45,821	47,593	51,746	50,313
Poland	179,000	178,000	178,000	184,000	187,000	190,000
Spain	51,665	61,591	63,708	63,413	53,637	54,714
U.S.S.R. (a)	400,000	430,000	440,000	450,000	470,000	500,000
Yugoslavia	36,286	38,683	41,577	43,809	45,337	50,282
Congo Republic	56,060	55,017	51,893	54,676	56,119	60,529
Mexico	50,999	56,009	55,854	58,487	61,748	70,454
United States (b) (c) ..	756,067	785,174	796,950	851,861	887,859	915,237
Argentina	14,211	16,506	19,388	21,876	23,227	21,931
Peru	31,255	32,236	53,834	r 60,942	61,938	62,000
China (d)	90,000	90,000	90,000	90,000	90,000	90,000
Japan	203,734	235,832	271,527	303,802	360,000	440,000
Korea (South)	—	—	—	—	—	1,402
Korea (North) (d)	60,000	60,000	65,000	70,000	75,000	75,000
TOTAL	2,700,000	2,800,000	2,900,000	3,000,000	3,200,000	3,400,000
WORLD'S TOTAL	3,200,000	3,300,000	3,500,000	3,700,000	3,900,000	4,100,000

Zinc is also produced in Czechoslovakia, Roumania and North Vietnam.

(a) Estimated.

(b) In addition secondary zinc recovered was as follows (long tons):

1961	212,471	1964	266,423
1962	233,944	1965	315,504
1963	239,513	1966	321,617

(c) The production by grades (including redistilled secondary) was as follows (long tons):

	1961	1962	1963	1964	1965	1966
A—High grade—Special ..	315,595	350,804	367,191	418,525	428,336	404,216
Ordinary	79,907	84,094	93,126	100,050	100,403	124,834
B—Intermediate grade ..	13,721	12,590	16,404	17,009	16,058	21,031
C and D—Brass special ..	62,215	67,813	87,670	72,352	77,406	92,129
Selected	—	116	3,490	291	276	—
E—Prime Western	333,947	322,328	282,912	307,559	340,040	347,370

(d) United States Bureau of Mines' estimate.

PRODUCTION OF ELECTROLYTIC ZINC IN CERTAIN COUNTRIES*

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Zambia	22,600	26,500	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Canada	239,292	250,141	253,589	301,543	320,087	341,618
Australia (Tasmania) ..	138,694	167,928	179,777	185,531	198,988	194,410
OTHER COUNTRIES						
Austria	11,876	11,897	11,673	12,692	12,906	13,977
Norway	46,009	44,266	45,821	47,593	51,746	50,313
Poland	77,700	80,800	82,200	85,900	88,600	90,400
Congo Republic	56,060	55,017	51,893	54,676	56,119	60,529
United States	289,642	316,195	319,726	347,663	364,400	387,121
Japan	132,265	154,206	171,899	196,240	240,000	270,000

*This production is already included in the Metal table.

PRODUCTION OF ZINC DUST IN CERTAIN COUNTRIES

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom	11,862	10,861	13,343	13,581	12,716	12,183
Australia	3,131	3,660	4,030	4,495	3,422	<i>n.a.</i>
OTHER COUNTRIES						
France	4,885	4,845	4,441	4,055	4,262	4,642
Germany (Federal)	8,592	8,641	7,156	8,145	6,658	5,777
United States	31,046	36,587	36,037	41,053	46,391	49,540
Japan	7,591	9,142	9,201	10,183	<i>n.a.</i>	<i>n.a.</i>

PRODUCTION OF ROLLED ZINC SHEETS, PLATES AND STRIPS
IN CERTAIN COUNTRIES

Long tons

Producing Country	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom (a)	27,401	24,178	23,007	25,395	24,738	26,750
OTHER COUNTRIES						
France	68,605	69,740	61,130	71,550	63,620	70,730
United States (b)	35,355	36,346	36,623	38,361	39,932	45,914
Japan	6,995	7,157	5,822	6,802	5,643	6,699

(a) Including wire.

(b) Excluding strip and ribbon zinc re-rolled from scrap originating in fabricating plants operated in connection with zinc rolling-mills, as follows:

Long tons			Long tons		
1961	.. .. .	11,338	1964	.. .. .	12,991
1962	.. .. .	12,104	1965	.. .. .	15,199
1963	.. .. .	10,837	1966	.. .. .	18,804

EXPORTS OF ZINC*

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore and concentrates ..	38	2,192	1,382	1,138	18	10
Unwrought	2,135	7,048	(a) 8,792	(a) 5,852	(a) 1,234	(a) 1,099
Scrap	n.a.	n.a.	1,080	2,752	270	178
Semi-manufactures (a)	(d) 5,998	(d) 7,218	4,338	5,513	6,182	4,951
Oxide	9,479	9,644	7,036	5,413	3,629	4,289
Lithopone, etc	6,194	5,447	3,897	2,955	2,376	3,110
Nigeria—						
Ore and concentrates ..	n.a.	—	—	200	1,875	1,501
Zambia (e)—						
Ores and concentrates ..	952	1,843	1,518	—	—	—
Unwrought	25,258	41,051	46,546	45,151	44,449	40,900
Canada—						
Ore (Zn content)	177,966	216,479	190,218	359,912	435,219	527,966
Unwrought	185,957	188,146	178,573	212,568	235,892	228,708
Scrap (a)	3,165	4,903	5,109	6,955	8,164	8,896
Oxide	497	1,563	—	—	—	—
Hong Kong—						
Unwrought (a)	—	—	—	100	—	—
Scrap	2	30	1	—	—	—
Semi-manufactures (a)	—	—	—	1	—	—
India (c)—						
Concentrates, etc. ..	10,190	11,653	9,765	7,364	2,663	—
Dross, scrap and ashes ..	500	140	1,102	2,665	817	2,212
Semi-manufactures (a)	314	67	184	231	4	20
Zinc white	—	112	336	455	708	372
Singapore—						
Unwrought	4	2	69	6	3	84
Semi-manufactures (a)	617	974	490	147	241	99
Oxide	n.a.	286	467	341	343	245
Australia (b)—						
Ores and concentrates						
(Zn content)	175,231	145,035	153,818	131,690	110,370	139,386
Unwrought	30,322	73,148	98,730	83,534	84,658	99,182
Scrap	6,024	156	308	66	67	119
Semi-manufactures ..	5,003	1,943	801	2,023	2,258	979
Oxide	79	94	51	4	30	64
Irish Republic—						
Ores and concentrates	1,537	—	—	—	—	26,077
OTHER COUNTRIES						
Austria—						
Ore	39	21	—	1,562	53	—
Unwrought (a)	5,015	3,631	2,736	4,098	3,627	3,811
Scrap	59	84	859	1,001	514	57
Lithopone	2,402	2,034	2,060	2,496	2,463	1,822
Belgium-Luxemburg						
E.U.—						
Ore	70,357	75,661	50,306	20,704	12,053	12,556
Unwrought	143,640	110,074	120,874	124,740	127,609	144,993
Scrap	6,056	4,031	5,743	8,440	7,356	7,555
Semi-manufactures (a)	28,461	27,587	30,773	32,014	33,127	29,494
Lithopone, etc... ..	22,311	19,686	18,705	18,066	18,125	12,098

*In these tables the description "unwrought" zinc corresponds to item 686.1 in the Standard International Trade Classification (Revised) and comprises blocks, pigs, slabs, etc. "Semi-manufactures" corresponds to S.I.T.C.(R). 284.0 (8) and 686.2, and includes zinc dust as well as rods, wire, sheets, tubes, pipes, etc.

(a) Including alloys.

(b) Years ended June 30 of that stated.

(c) Years ended March 31 following that stated.

(d) Including unwrought alloys.

(e) Figures for years 1961 to 1963 relate to Rhodesia and Nyasaland.

EXPORTS OF ZINC (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES (cont.)						
Denmark—						
Unwrought	406	129	150	83	185	64
do. alloys	2,471	1,980	904	1,142	485	321
Scrap	887	1,836	1,917	2,195	1,778	2,063
Semi-manufactures	5	156	284	9	13	14
Finland—						
Concentrates	85,509	99,870	140,685	144,929	145,296	110,765
Unwrought	85	—	238	—	—	20
France—						
Ore	23,719	7,167	491	708	497	233
Unwrought	2,182	4,559	14,020	11,156	17,375	19,723
do. alloys	95	183	324	578	364	383
Semi-manufactures (a)	4,061	3,729	4,557	2,715	4,268	3,828
Oxide	4,824	4,309	4,536	4,016	4,643	7,459
Lithopone, etc.	1,543	1,082	1,268	1,116	995	1,007
Germany (Federal)—						
Ore	18,867	12,737	32,574	43,503	45,555	49,993
Unwrought (a)	31,200	24,991	29,398	21,162	13,217	27,539
Scrap (a)	871	2,035	3,180	2,682	4,169	7,522
Semi-manufactures (a)	7,473	6,633	7,280	7,514	6,823	8,988
Zinc-white, zinc-grey	10,686	9,820	11,463	10,324	9,902	10,314
Lithopone	41,778	35,833	33,688	36,347	30,715	32,768
Greece—						
Ore and concentrates	29,692	30,647	18,766	22,053	23,603	20,410
Italy—						
Ore r	75,807	65,663	39,049	r 48,484	28,946	40,503
Unwrought	6,265	2,088	297	r 1,064	1,401	52
Semi-manufactures (a) r	358	r 376	304	r 454	140	349
Oxide	96	370	681	555	383	1,083
Lithopone, etc.	4,028	r 3,543	3,420	2,664	2,166	3,073
Netherlands—						
Ore	4,719	3,819	3,809	8,032	5,729	4,373
Unwrought	20,355	20,893	23,064	25,378	22,213	22,825
do. alloys	109	47	46	35	122	43
Scrap (a)	4,557	7,681	7,829	9,140	9,969	10,162
Semi-manufactures (a)	1,281	1,173	1,279	1,332	1,366	1,086
Oxide	9,297	8,775	10,134	10,601	9,360	9,469
Lithopone, etc.	11,462	10,207	10,224	11,890	10,314	12,045
Norway—						
Ore	9,534	14,961	14,276	14,377	19,225	15,895
Unwrought	31,232	31,641	32,335	38,089	35,655	39,114
do. alloys	810	1,347	783	1,252	1,533	1,096
Scrap	421	707	704	584	798	543
Semi-manufactures (a)	334	663	1,131	1,499	1,449	1,687
Zinc-white	773	614	766	299	195	219
Poland—						
Unwrought and sheets	89,510	82,870	87,400	96,200	95,600	71,633
Unwrought alloys	6,797	n.a.	7,955	8,338	7,869	8,765
Zinc-white	5,310	n.a.	n.a.	8,921	9,020	5,527
Lithopone	734	n.a.	468	424	n.a.	n.a.
Portugal—						
Ore	—	—	385	718	8,300	5,596
Zinc-white	9	45	72	91	57	77
Spain—						
Ore	29,653	29,123	32,178	23,924	6,479	6,060
Unwrought (a)	21,707	23,469	23,437	19,057	10,637	1,915
Oxide	163	313	189	113	55	274
Sweden—						
Ore	143,140	147,158	146,049	146,258	146,261	158,650
Unwrought (a)	146	108	71	286	188	119
Scrap	1,196	1,738	1,080	1,476	1,457	1,392
Zinc-white	998	750	945	467	459	646
Lithopone	71	73	63	59	31	22

(a) Including alloys.

EXPORTS OF ZINC (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Switzerland—						
Unwrought and scrap ..	751	1,085	1,111	1,258	1,047	1,647
Semi-manufactures (a)	51	74	37	66	29	37
Zinc-white	12	1	2	1	11	1
U.S.S.R.—						
Concentrates	38,600	19,100	—	—	—	—
Unwrought	114,400	106,300	81,100	147,400	131,600	84,900
Yugoslavia—						
Concentrates	18,552	29,563	24,662	31,673	20,093	10,585
Unwrought	7,830	7,097	5,710	3,063	2,828	5,241
Semi-manufactures ..	5,181	6,791	8,674	10,553	10,040	11,947
Oxide	1,301	558	750	1,157	1,141	797
Lithopone	96	400	443	2,028	3,629	2,664
Algeria—						
Ore	74,900	67,509	57,352	51,596	66,604	<i>n.a.</i>
Congo Republic (c)—						
Ores and concentrates..	90,000	60,000	75,000	85,000	85,000	85,000
Unwrought	50,000	60,000	45,000	45,000	35,000	30,000
Congo, Republic of—						
Ore	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	16,236	11,546
Morocco—						
Ore	74,101	62,327	65,187	63,352	96,598	88,874
South Africa—						
Unwrought	7	12	—	9	23	22
Fume, dust, shavings, etc.	111	139	84	330	76	92
South West Africa—						
Ores and concentrates (b)	23,052	38,191	38,421	33,617	31,693	35,054
Tunisia—						
Ore	9,544	6,653	6,970	8,842	2,132	10,807
Greenland—						
Ore	10,247	10,213	—	—	—	—
Guatemala—						
Ore	13,437	4,288	2,919	831	853	1,228
Honduras—						
Ore and concentrates ..	12,131	9,631	10,561	10,689	19,340	9,592
Mexico—						
Ores and concentrates	395,153	393,102	351,785	270,107	307,449	305,076
Unwrought	27,324	28,946	28,911	28,710	25,453	32,091
Oxide	2,456	1,281	2,619	3,201	6,428	7,861
United States—						
Ore and concentrates (b)	1,491	122	15	35	<i>n.a.</i>	<i>n.a.</i>
Unwrought	44,691	32,233	30,226	23,675	6,438	2,386
Scrap (b)	5,268	7,090	1,602	5,757	5,015	3,990
Semi-manufactures (a)	6,224	5,211	5,398	10,924	5,903	5,973
Oxide	1,949	1,840	2,644	2,174	2,375	7,461
Lithopone	543	312	749	1,057	544	2,694
Argentina—						
Ore	50,141	19,372	46,624	29,383	2,629	—
Unwrought	—	—	3,134	1,070	146	2
Bolivia—						
Ores (b)	5,248	3,588	4,574	9,604	13,472	16,438
Chile—						
Concentrates	—	103	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Peru—						
Ores, etc. (Zn content) ..	173,423	142,088	145,800	199,557	208,644	212,086
Unwrought (Zn content)	29,859	36,710	38,179	71,074	54,836	47,797

(a) Including alloys.

(c) Estimated.

(b) Zn content.

EXPORTS OF ZINC (cont.)

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Burma—						
Concentrates	12,403	15,462	16,002	15,407	14,310	<i>n.a.</i>
Iran (a)—						
Ore	21,219	14,970	24,704	73,062	96,244	76,322
Japan—						
Unwrought	1,329	293	1,121	5,320	54,529	58,213
Semi-manufactures	66	176	784	844	1,054	2,161
Oxide	82	49	157	170	332	1,137
Lithopone	20	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	205	323
Korea (South)—						
Ore	551	714	3,094	5,878	13,694	31,666
Philippine Republic—						
Concentrates	3,051	7,431	11,779	4,811	3,848	<i>n.a.</i>
Turkey—						
Ore	11,263	7,261	837	1,896	7,712	16,335

(a) Years ended March 20 following that stated.

IMPORTS OF ZINC*

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore and concentrates ..	206,184	188,130	212,113	303,531	229,273	234,709
Unwrought	163,070	142,109	(a) 159,171	(a) 187,109	(a) 185,268	178,698
Waste and scrap ..	n.a.	n.a.	2,713	2,298	1,944	1,214
Semi-manufactures (a)	(c) 1,777	(c) 1,027	848	601	288	600
Oxide	n.a.	n.a.	n.a.	189	425	302
Lithopone, etc... ..	2,524	1,867	2,083	2,251	1,089	1,528
Malta—						
Semi-manufactures ..	n.a.	(£7,454)	(£9,161)	(£7,376)	(£11,409)	(£14,222)
Ghana—						
Unwrought (a) ..	18	47	42	29	977	303
Semi-manufactures (a)	184	19	56	30	52	16
Kenya—						
Unwrought (a) ..	100	204	1,379	1,419	1,206	1,166
Semi-manufactures (a)	9	—	16	8	9	3
Nigeria—						
Unwrought and semi-manufactures (a)	35	37	37	950	1,948	846
Rhodesia (d)—						
Semi-manufactures (a)	49	86	537	1,085	757	n.a.
Tanzania—						
Unwrought (a) ..	4	5	301	1,407	2,015	1,153
Semi-manufactures (a)	36	26	23	25	19	15
Uganda—						
Unwrought	1	—	—	7	241	1,275
Semi-manufactures (a)	4	16	3	5	14	8
Canada—						
Ore and concentrates ..	n.a.	n.a.	n.a.	12,063	7,964	n.a.
Unwrought (a) ..	688	634	571	19	15	112
Semi-manufactures (a)	1,548	1,477	1,749	2,390	2,027	1,833
Zinc-white	1,999	2,443	1,993	1,045	976	1,442
Lithopone	562	—	—	481	512	194
Barbados—						
Semi-manufactures (a)	7	11	7	5	9	2
Jamaica—						
Semi-manufactures (a)	43	39	91	79	20	17
Trinidad and Tobago—						
Semi-manufactures (a)	59	48	32	36	18	21
Ceylon—						
Unwrought (a) ..	91	85	182	85	274	151
Semi-manufactures (a)	18	74	35	19	49	138
Cyprus—						
Semi-manufactures (a)	40	49	46	55	60	63
Hong Kong—						
Unwrought (a) ..	3,978	3,978	3,357	6,164	1,240	3,614
Scrap	188	37	77	265	62	27
Semi-manufactures (a)	333	380	369	401	233	516
Oxide	550	777	640	716	632	686
Lithopone	1,734	1,271	1,079	1,272	1,097	1,293
India (b)—						
Ore and concentrates ..	—	—	—	—	—	19,764
Unwrought	64,345	83,847	79,856	65,345	68,430	35,718
do. alloys	1,522	2,306	3,023	3,600	7,060	9,636
Semi-manufactures (a)	964	1,292	1,140	1,115	3,452	1,946
Zinc-white	5	2	182	102	172	31
Lithopone	352	474	501	343	689	802
Malaysia (West)—						
Ore	n.a.	n.a.	n.a.	n.a.	1,228	833
Unwrought (a) ..	n.a.	n.a.	n.a.	n.a.	1,228	1,533
Semi-manufactures (a)	n.a.	n.a.	n.a.	n.a.	148	47

*See footnote on p. 388 concerning the descriptions "unwrought" zinc and "semi-manufactures" used in these tables.

(a) Including alloys.

(c) Including unwrought alloys.

(b) Years ended March 31 following that stated. (d) Figures for years 1961 to 1963 relate to Rhodesia and Nyasaland.

IMPORTS OF ZINC (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES (cont.)						
Pakistan—						
Unwrought (a)	3,574	220	2,781	4,960	n.a.	n.a.
Zinc-white	413	499	378	15	n.a.	n.a.
Lithopone	1,364	1,832	1,557	1,369	n.a.	n.a.
Singapore—						
Unwrought	25	7	16	192	2,532	4,354
Semi-manufactures (a)	1,206	753	597	272	248	387
Oxide	n.a.	366	500	457	384	418
Sarawak—						
Semi-manufactures (a)	432	935	303	126	67	102
Australia (b)—						
Ore and concentrates ..	n.a.	n.a.	n.a.	n.a.	n.a.	5,083
Unwrought and semi-manufactures (a) ..	2,531	1,687	1,839	195	273	(c) 177
Lithopone	1,531	1,454	1,497	1,073	1,142	927
New Zealand—						
Unwrought (a)	2,664	2,580	} (b) 3,048	{ (b) 3,227	(b) 4,666	(b) 4,220
Semi-manufactures (a)	755	459					(b) 592	(b) 698	(b) 905
Oxide	79	101	(b) 1	(b) 10	(b) 2	(b) 8
Lithopone	136	133	(b) 134	(b) 94	(b) 131	(b) 146
Irish Republic—						
Unwrought (a)	2,464	2,729	2,733	3,439	3,286	3,203
Semi-manufactures (a)	80	149	164	312	264	200
OTHER COUNTRIES						
Albania—						
Oxide	143	279	157	—	169	n.a.
Austria—						
Ore	9,271	12,921	12,441	13,366	12,421	12,253
Unwrought (a)	7,905	5,913	5,541	8,293	7,286	7,182
Semi-manufactures (a)	499	443	422	502	548	627
Zinc-white and zinc-grey	658	721	483	512	445	477
Lithopone	3	96	372	221	289	391
Belgium-Luxemburg						
E.U.—						
Ore	496,045	440,448	416,148	442,420	501,723	530,130
Unwrought	17,436	35,155	24,023	25,719	12,087	11,447
Scrap	133	1,186	405	1,012	1,400	693
Semi-manufactures (a)	143	201	430	958	393	544
Oxide	1,433	1,799	2,013	1,991	1,774	1,862
Lithopone, etc... ..	1,608	1,349	1,361	1,646	1,636	2,497
Denmark—						
Unwrought	9,733	10,770	8,765	11,231	11,336	9,551
do. alloys	216	238	636	254	183	340
Scrap	32	63	67	89	91	186
Semi-manufactures (a)	6,257	6,740	5,084	6,449	6,744	6,422
Zinc-white	1,623	1,496	1,428	1,467	1,370	1,531
Lithopone	1,963	2,020	2,060	1,843	1,810	1,756
Finland—						
Unwrought (a)	6,286	4,642	5,770	3,781	7,769	6,985
Scrap	—	—	—	—	2	6
Semi-manufactures (a)	587	501	302	523	467	552
Zinc-white	490	424	403	268	417	313
Lithopone	1,833	1,786	1,737	1,767	1,517	1,457
France—						
Ore	320,391	293,211	276,635	362,325	326,980	342,758
Unwrought	31,108	31,881	20,207	21,767	13,636	24,207
Scrap	8,474	10,542	13,156	18,585	16,937	18,430
Semi-manufactures (a)	4,755	4,665	6,528	6,918	6,856	7,912
Oxide	1,534	883	1,341	2,219	1,725	1,233
Lithopone, etc... ..	21,051	20,134	21,385	23,592	19,499	17,805

(a) Including alloys.

(b) Years ended June 30 of that stated.

(c) Owing to reclassification not strictly comparable with earlier years.

IMPORTS OF ZINC (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES (cont.)						
Germany (Federal)—						
Ores	136,247	131,494	122,680	143,539	118,840	162,081
Unwrought (a)	139,343	126,580	133,960	164,635	181,395	124,797
Scrap (a)	409	851	780	535	540	615
Semi-manufactures (a)	9,454	12,154	14,795	14,731	20,979	18,643
Zinc-white and zinc-grey	3,254	3,438	3,763	5,292	4,470	3,922
Lithopone	3,714	3,160	2,867	2,816	3,042	3,098
Greece—						
Unwrought	4,923	5,260	4,905	5,537	5,493	7,817
Semi-manufactures (a)	286	r 257	r 357	179	219	149
Zinc-white	241	246	r 485	395	362	340
Lithopone	3,187	3,230	3,606	3,921	3,718	4,158
Hungary—						
Crude	9,225	9,897	10,777	11,630	13,162	14,176
Iceland—						
Unwrought (a)	20	22	12	12	8	15
Semi-manufactures (a)	52	63	61	80	77	56
Zinc-white	37	57	37	17	17	13
Italy—						
Ore	2,513	1,075	8,922	r 1,024	23	4,558
Unwrought	r 12,795	26,412	28,952	41,636	33,235	} 54,368
do. alloys	2,040	2,504	1,879	1,162	6,644	
Scrap	4,550	r 5,165	7,005	r 4,473	3,876	7,002
Semi-manufactures (a)	r 385	r 2,531	3,683	r 2,964	2,997	3,312
Oxide	741	684	2,281	3,526	2,549	3,022
Lithopone, etc.	1,221	294	757	1,399	1,225	751
Netherlands—						
Ore	90,282	72,593	75,554	103,926	83,802	84,376
Unwrought	13,437	14,308	13,490	13,482	15,548	14,376
do. alloys	2,068	2,194	2,165	2,102	1,758	1,491
Scrap	451	317	424	249	1,262	1,997
Semi-manufactures (a)	5,995	4,879	6,458	7,876	6,768	6,122
Oxide	1,037	1,568	1,768	1,838	2,061	1,490
Lithopone, etc.	1,980	1,926	1,986	2,714	2,543	1,838
Norway—						
Ore	65,874	68,368	83,521	77,485	101,521	85,712
Unwrought	1,040	2,259	1,720	2,234	5,207	1,171
Scrap	923	474	941	774	1,068	1,366
Semi-manufactures (a)	2,374	2,857	2,629	2,414	1,946	1,906
Zinc-white	453	588	451	568	904	1,112
Lithopone, etc.	329	354	235	242	224	144
Poland—						
Concentrates	145,104	122,000	146,200	164,600	143,824	99,298
Portugal—						
Unwrought and scrap	4,866	4,552	5,008	4,979	6,010	5,006
Semi-manufactures	192	241	264	296	260	254
Oxide	460	486	436	299	291	282
Lithopone	2,276	2,234	2,113	2,741	2,724	2,204
Spain—						
Unwrought and scrap	—	—	1	11	1,026	4,889
Semi-manufactures (a)	19	36	13	29	106	267
Oxide	11	49	79	113	145	523
Lithopone	n.a.	213	151	429	625	960
Sweden—						
Unwrought	23,844	33,174	25,134	26,059	31,470	27,116
do. alloys	2,038	2,729	2,442	2,579	3,749	2,294
Scrap	50	231	55	61	72	29
Semi-manufactures (a)	1,206	1,122	1,281	1,617	1,649	1,580
Zinc-white	4,389	4,053	3,541	3,355	3,454	2,347
Lithopone, etc.	5,603	4,466	4,348	3,927	3,110	2,506

(a) Including alloys.

IMPORTS OF ZINC (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Switzerland—						
Unwrought	26,594	19,997	20,082	20,342	25,301	22,784
Semi-manufactures (a)	3,505	3,018	3,551	3,125	3,456	3,263
Zinc-white	1,713	1,811	1,560	1,820	1,651	1,398
U.S.S.R.—						
Unwrought	69,300	50,800	49,200	70,600	57,900	16,000
do. alloys	6,299	5,708	5,905	5,807	5,800	5,400
Semi-manufactures ..	3,937	4,134	3,937	3,838	3,900	3,900
Yugoslavia—						
Unwrought	—	—	2,090	1,604	2,961	1,646
Semi-manufactures ..	5	7	75	182	140	241
Oxide	49	19	785	1,451	564	710
Lithopone	146	49	507	601	506	n.a.
Angola—						
Semi-manufactures (a)	60	93	57	90	114	111
Oxide	35	49	42	59	44	35
Egypt—						
Unwrought	951	2,088	2,411	1,954	509	491
Semi-manufactures ..	511	330	n.a.	n.a.	n.a.	n.a.
Zinc-white	950	73	n.a.	n.a.	n.a.	n.a.
Lithopone	2,691	n.a.	n.a.	n.a.	n.a.	n.a.
Malagasy Republic—						
Semi-manufactures (a)	99	126	87	76	53	105
Oxide	5	4	—	6	28	15
Morocco—						
Unwrought	463	613	557	454	576	n.a.
Semi-manufactures (a)	152	187	284	240	151	n.a.
Oxide	405	562	560	566	496	n.a.
Lithopone	1,112	977	1,358	1,217	969	n.a.
Mozambique—						
Semi-manufactures ..	22	29	25	9	27	48
Oxide	72	65	93	88	54	78
South Africa—						
Unwrought	22,596	26,667	33,767	41,385	36,628	38,406
Semi-manufactures ..	166	255	154	943	694	382
Lithopone	1,214	1,233	1,097	1,458	1,473	1,498
Oxide	234	154	270	389	115	150
Sudan—						
Unwrought	8	8	20	—	—	—
Semi-manufactures ..	146	94	195	58	166	54
Tunisia—						
Unwrought and scrap (a)	84	94	25	—	108	59
Semi-manufactures (a)	107	67	80	86	93	97
Oxide	90	157	144	200	205	n.a.
Mexico—						
Semi-manufactures ..	41	30	32	45	43	48
Oxide	35	34	43	45	39	46
Nicaragua—						
Semi-manufactures ..	30	273	65	38	721	1,078
United States—						
Ore (Zn content) ..	319,333	345,822	332,071	278,067	363,540	357,343
Unwrought	111,774	121,425	118,154	119,748	138,829	249,589
Dross and scrap ..	1,259	2,471	2,568	3,371	4,198	1,814
Semi-manufactures ..	1,133	1,986	3,696	5,003	1,684	3,031
Oxide	9,127	11,509	12,377	7,546	10,264	12,939
Lithopone	66	87	142	154	170	162
Argentina—						
Unwrought	313	84	428	439	2,490	2,138
Sheets and plates ..	219	102	63	71	35	25
Zinc-white	1	4	2	10	6	18

(a) Including alloys.

IMPORTS OF ZINC (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Brazil—						
Unwrought (a) ..	32,318	41,567	38,288	30,222	31,075	40,780
Semi-manufactures (a) ..	38	545	17	344	3	3
Zinc-white	621	82	120	70	300	59
Lithopone	9,540	9,621	7,708	6,483	5,982	5,447
Chile—						
Unwrought	4,158	3,524	5,238	<i>n.a.</i>	6,393	<i>n.a.</i>
Bars and sheets (a) ..	185	108	285	<i>n.a.</i>	187	<i>n.a.</i>
Zinc-white	2	7	1	<i>n.a.</i>	31	<i>n.a.</i>
Lithopone	10	—	10	<i>n.a.</i>	20	<i>n.a.</i>
Colombia—						
Unwrought (a) ..	721	1,223	4,739	4,301	2,311	7,564
Semi-manufactures (a) ..	533	403	148	168	95	49
Zinc-white	1,013	1,209	1,642	1,121	7	31
Lithopone	506	577	790	489	186	549
Peru—						
Semi-manufactures (a) ..	237	248	284	196	242	243
Zinc-white	23	25	21	15	72	25
Lithopone	406	417	337	414	374	230
Uruguay—						
Unwrought and sheets ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	735	1,037
Lithopone	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	282	250
Zinc-white	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	7	<i>n.a.</i>
Venezuela—						
Unwrought	191	162	301	2,987	4,006	5,250
Oxide	617	766	784	983	813	668
Lithopone	535	523	400	490	422	406
Burma—						
Unwrought	223	—	22	318	433	<i>n.a.</i>
Semi-manufactures (a) ..	201	505	327	188	—	<i>n.a.</i>
Formosa—						
Unwrought (a) ..	1,915	3,000	3,740	4,132	5,631	6,765
Semi-manufactures (a) ..	279	263	145	254	539	216
Lithopone	1,210	1,325	1,394	1,238	1,375	1,052
Indonesia—						
Unwrought and scrap ..	242	520	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Semi-manufactures (a) ..	1,514		<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Zinc-white	3,271	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Iran (b)—						
Unwrought	97	383	157	166	448	731
Semi-manufactures (a) ..	53	446	85	66	75	173
Oxide	<i>n.a.</i>	294	448	314	488	<i>n.a.</i>
Lithopone	<i>n.a.</i>	1,459	1,717	1,242	973	1,178
Iraq—						
Semi-manufactures ..	88	93	15	21	<i>n.a.</i>	<i>n.a.</i>
Israel—						
Unwrought (a)	2,861	1,896	2,019	2,748	3,484	2,678
Semi-manufactures ..	268	631	401	291	402	276
Oxide	1,293	522	423	612	592	368
Japan—						
Ore	185,432	142,414	145,176	283,891	374,325	439,066
Unwrought	47,118	8,007	8,271	67,948	6,938	7,529
Scrap	59	64	27	43	11	84
Semi-manufactures (a) ..	87	33	79	21	81	—
Korea (South)—						
Unwrought	4,638	4,938	10,302	4,741	8,791	6,748
Semi-manufactures ..		1,428	1,500	1,761	1,558	981
Lithopone						

(a) Including alloys.

(b) Years ended March 20 of year following that stated.

IMPORTS OF ZINC (cont.)

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
OTHER COUNTRIES						
<i>(cont.)</i>						
Lebanon—						
Unwrought	710	777	690	655	581	926
Semi-manufactures	148	146	248	65	89	65
Oxide and lithopone	77	66	57	105	90	130
Philippine Republic—						
Unwrought (a)	5,520	7,624	7,694	10,199	10,785	<i>n.a.</i>
Semi-manufactures (a)	883	1,225	1,541	2,253	534	<i>n.a.</i>
Oxide	1,676	1,009	880	676	780	<i>n.a.</i>
Lithopone	677	159	422	423	209	<i>n.a.</i>
Syria—						
Oxide and lithopone	953	657	568	869	505	(b) 177
Thailand—						
Unwrought (a)	5,589	7,089	9,147	10,341	8,930	11,412
Semi-manufactures (a)	1,587	1,715	1,595	1,660	1,594	2,448
Oxide	236	299	343	392	576	650
Lithopone	301	707	538	653	912	884
Turkey—						
Unwrought	3,851	3,339	1,920	2,238	5,322	3,102
Semi-manufactures (a)	1,526	2,500	3,289	2,728	2,388	2,708
Oxide	1,449	1,803	1,718	2,088	2,426	2,325
Lithopone	131	140	73	129	5	<i>n.a.</i>

(a) Including alloys.

(b) Oxide only.

ZIRCONIUM MINERALS

PRODUCTION OF ZIRCONIUM MINERALS

Long tons

Producing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Nigeria	743	—	791	153	—	—
Ceylon (b)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	(a) 2	151
Malaysia (West) (a)	56	60	258	145	582	774
Australia— Zircon concentrates	136,462	133,844	184,830	184,082	226,863	237,846
OTHER COUNTRIES						
Egypt	94	168	39	40	—	383
Malagasy Republic	315	348	382	504	634	693
Senegal	5,303	2,299	3,022	546	—	—
South Africa	6,792	6,769	2,364	—	—	—
Brazil (b)	6,612	2,359	350	508	485	487

Zirconium minerals are also known to have been produced in India, the U.S.S.R., the United States and Cambodia.

Production of zirconium sponge metal in the United States was as follows (long tons):

1961—1,515; 1962—1,136; 1963—912; 1964—*n.a.*; 1965—*n.a.*; 1966—*n.a.*

(a) Exports.

(b) Zircon and baddeleyite.

EXPORTS OF ZIRCONIUM MINERALS, ETC.

Long tons

Exporting Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
Nigeria— Ores and concentrates	(a) —	(a) 495	876	—	20	—
Ceylon— Baddeleyite	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	2	<i>n.a.</i>
Malaysia (West)— Zircon	56	60	258	145	582	774
Australia— Zircon concentrates	140,333	131,843	179,697	198,664	216,661	210,428
OTHER COUNTRIES						
Germany (Federal)— Ore	591	575	567	1,669	1,252	777
Malagasy Republic	<i>n.a.</i>	3	<i>n.a.</i>	—	3	123
Senegal— Zircon	5,280	2,054	3,247	—	—	—
South Africa— Zircon concentrates	5,240	5,950	2,504	71	2	—
United States— Ores and concentrates	1,140	1,487	1,266	2,232	1,573	2,063
Zirconium metal, etc.	80	97	131	238	95	57
Brazil (b)	53	—	—	—	—	—

(a) Years ended March 31 of year following that stated.

(b) Zircon and baddeleyite.

IMPORTS OF ZIRCONIUM MINERALS, ETC.

Long tons

Importing Country and Description	1961	1962	1963	1964	1965	1966
COMMONWEALTH COUNTRIES						
United Kingdom— Zirconium ores ..	30,756	32,924	32,356	49,351	42,140	36,885
Canada— Zirconium alloys ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	8	10	12
Zirconium oxide ..	(£11,462)	(£19,503)	(£20,172)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Zirconium silicate ..	(£74,780)	(£73,485)	(£105,702)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
OTHER COUNTRIES						
France— Zirconium ore ..	16,387	18,641	19,374	22,695	29,349	27,562
Germany (Federal)— Zirconium ore ..	23,018	23,568	25,176	28,661	25,084	26,285
Italy— Zirconium ore ..	6,700	7,450	10,980	13,029	11,603	14,260
United States— Zirconium ore ..	30,183	27,565	46,913	39,655	52,563	51,765
Zirconium metal ..	1	1	—	24	16	<i>n.a.</i>
Brazil— Zirconium ore ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,000
Japan— Zirconium ore ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	25,571	29,583

OTHER MINERALS AND METALS

These minerals are not separately recorded in the statistical returns of several countries.

Country and Description	1961	1962	1963	1964	1965	1966
Germanium (in terms of metal)						
PRODUCTION*—						
Congo Republic Lb.	29,870	17,650	16,060	18,230	32,271	33,003
South West Africa Lb.	34,580	79,505	31,132	—	—	1,854
United States (b) Lb.	40,000	37,000	20,000	15,000	30,000	30,000
EXPORTS—						
Italy Lb.	476	527	n.a.	53	1,512	3,086
South-West Africa Lb.	34,580	79,505	468	11,434	7,023	5,710
IMPORTS—						
Italy Lb.	476	511	n.a.	n.a.	n.a.	n.a.
Indium						
PRODUCTION†—						
Japan Troy ounces	n.a.	150,700	150,800	n.a.	n.a.	n.a.
Nepheline Syenite						
PRODUCTION—						
Canada Ton	214,571	227,159	226,786	259,196	303,555	327,407
Norway Ton	8,008	19,625	21,653	30,258	40,369	56,401
EXPORTS—						
Canada Ton	173,748	172,909	181,484	202,653	220,714	235,379
IMPORTS—						
United Kingdom £	145,540	206,721	n.a.	n.a.	n.a.	n.a.
Mexico Ton	n.a.	n.a.	n.a.	n.a.	84	102
United States .. Ton	167,379	168,635	175,749	183,656	193,724	226,281
Perlite						
PRODUCTION—						
United Kingdom Ton	823	1,730	3,895	1,765	255	258
Australia .. Ton	394	608	r —	489	764	1,544
New Zealand .. Ton	387	387	564	914	1,124	1,028
Greece Ton	16,911	29,209	r 28,879	29,063	n.a.	n.a.
Morocco Ton	n.a.	n.a.	n.a.	n.a.	243	—
Mexico Ton	7,124	n.a.	n.a.	n.a.	n.a.	n.a.
United States .. Ton	334,000	364,000	361,000	381,000	448,000	489,000
Turkey Ton	200	700	1,000	1,200	n.a.	n.a.
EXPORTS—						
Greece Ton	9,099	16,622	n.a.	n.a.	n.a.	n.a.
IMPORTS—						
United Kingdom £	180,198	287,414	n.a.	n.a.	n.a.	n.a.
Sodium Carbonate (Natural)						
PRODUCTION—						
Kenya Ton	142,430	122,120	101,870	80,380	81,880	110,624
United States (a) Ton	720,000	873,000	999,000	1,138,000	1,334,000	1,552,000
EXPORTS—						
Kenya Ton	142,673	111,201	106,873	63,997	73,501	105,065
Sudan Ton	102	75	345	149	421	7

*Germanium is also produced in the United Kingdom.

†The United States is also a substantial producer of indium but statistics of production are not available.

(a) Sold or used by producers.

(b) From primary material of both domestic and foreign origin. Estimated.

OTHER MINERALS AND METALS (cont.)

Country and Description	1961	1962	1963	1964	1965	1966
Sodium Sulphate (Natural)						
PRODUCTION—						
Canada Ton	224,104	220,243	229,387	297,556	308,454	361 887
Spain Ton	17,793	20,373	32,936	41,815	n.a.	n.a.
United States (d) Ton	416,000	409,000	388,000	513,000	554,000	571,000
Chile Ton	13,089	12,781	r 31,909	30,200	55,448	33,625
Argentina .. Ton	11,022	n.a.	n.a.	n.a.	15,959	n.a.
Turkey Ton	2,446	4,699	1,244	2,387	4,885	7,306
EXPORTS—						
Canada Ton	77,795	66,115	58,346	95,820	103,571	90,551
Tellurium						
PRODUCTION—						
Canada Lb.	77,609	58,725	76,842	77,782	69,794	72,239
United States (a) Lb.	205,000	264,000	201,000	145,000	195,000	199,000
Peru Lb.	76,300	50,473	26,634	46,757	36,045	39,654
Japan Lb.	16,487	23,168	13,256	7,573	20,126	22,701
EXPORTS—						
Germany (Federal) Lb.	1,102	5,952	1,543	441	n.a.	n.a.
Peru Lb.	74,673	9,202	2,121	22,992	62,131	113,421
IMPORTS—						
Germany (Federal) Lb.	22,900	22,000	8,800	14,100	n.a.	n.a.
Spain Lb.	n.a.	n.a.	639	573	3,166	3,161
Wollastonite						
PRODUCTION—						
New Zealand .. Ton	—	6	9	14	54	—
Finland Ton	2,605	2,382	2,091	3,000	2,355	3,813
South West Africa Ton	—	—	—	116	205	330
Mexico (b) .. Ton	5,000	5,000	5,000	5,000	5,000	5,000
United States—						
Industrial	(c)	(c)	(c)	(c)	(c)	(c)
Ornamental .. Ton	6,853	2,400	2,679	r 3,237	n.a.	n.a.
EXPORTS—						
South West Africa Ton	—	—	—	n.a.	232	56

(a) Including tellurium content of compounds.

(b) Estimated.

(c) In the range 30,000 to 40,000 tons per annum.

(d) Sold or used by producers.

MINERALS PRODUCED IN COUNTRIES OF THE COMMONWEALTH AND STERLING AREA

The following list comprises those minerals produced in Commonwealth and Sterling Area countries during the period 1961-1966 for which data have been given in the preceding tables. Minerals outside the general coverage of the statistics in this Summary are excluded. Where the name of an element appears alone, the word "ores" or "minerals" is implied to follow; this list does not extend to the production of metals.

Abu Dhabi (Protected State)	Bahrein (Protected State)	Canada—(cont.)
Petroleum	Petroleum	Sulphur
Aden		Talc
Salt	Barbados	Tantalite, Columbite
Australia	Natural gas	Tellurium
Antimony	Petroleum	Thorium
Asbestos		Tin
Barytes	Botswana	Titanium
Bauxite	Asbestos	Tungsten
Bentonite	Gold	Uranium
Beryl	Manganese	Zinc
Cadmium	Silver	Ceylon
China Clay		China clay
Chrome	Brunei	Feldspar
Coal	Natural gas	Graphite
Cobalt	Natural gasoline	Ilmenite
Copper	Petroleum	Magnesite, Dolomite
Diamonds		Monazite
Diatomaceous earth	Canada	Salt
Feldspar, China stone	Arsenic	Zircon
Fluorspar	Asbestos	Christmas Island
Fuller's earth	Barytes	Phosphate
Garnet	Bentonite	Cyprus
Gold	Bismuth	Asbestos
Gypsum	Cadmium	Bentonite
Iron	Coal	Chrome
Lead	Cobalt	Cobalt
Lithium	Copper	Copper
Magnesite, Dolomite	Diatomaceous earth	Gypsum
Manganese	Feldspar	Pyrites
Mica	Fluorspar	Salt
Molybdenum	Garnet	Fiji
Monazite	Gold	Gold
Natural gas	Graphite	Iron
Perlite	Gypsum, Anhydrite	Manganese
Petroleum	Indium	Silver
Phosphate	Iron	Ghana
Platinum	Lead	Bauxite
Pyrites	Lithium	Diamonds
Salt	Magnesite, Dolomite	Gold
Selenium	Mercury	Manganese
Sillimanite, Andalusite	Mica	Salt
Silver	Molybdenum	Silver
Sulphur	Natural gas	Guyana
Talc, Pyrophyllite	Natural gasoline	Bauxite
Tantalite, Columbite	Nepheline syenite	Diamonds
Tin	Nickel	Gold
Titanium	Niobium	Manganese
Tungsten	Petroleum	Hong Kong
Uranium	Platinum	China clay
Zinc	Potash salts	Feldspar
Zircon	Pyrites	Graphite
Bahamas	Salt	Iron
Salt	Selenium	Tungsten
	Silver	
	Sodium sulphate	

Minerals produced in countries of the Commonwealth and Sterling Area (cont.)

India	Kuwait (Protected State)	Ocean Island
Asbestos	Petroleum	Phosphate
Barytes	Lesotho	Pakistan
Bauxite	Diamonds	Antimony
Bentonite	Malaysia (West)	Barytes
Beryl	Bauxite	Bauxite
Bromine	China clay	Bentonite
China Clay	Columbite	China clay
Chrome	Gold	Chrome
Coal	Iron	Coal
Copper	Manganese	Dolomite
Columbite	Monazite	Feldspar
Corundum	Tin	Fuller's earth
Diamonds	Titanium	Gypsum
Feldspar	Tungsten	Iron
Fluorspar	Zircon	Magnesite
Fuller's earth	Malta	Manganese
Garnet	Salt	Mica
Gold	Mauritius	Natural gas
Gypsum	Salt	Petroleum
Iron	Nauru Island	Salt
Lead	Phosphate	Strontium
Magnesite, Dolomite	New Guinea	Talc
Manganese	Gold	Papua
Mica	Platinum	Gold
Monazite	Silver	Manganese
Nitrate of potash	New Hebrides	
Petroleum	Manganese	Qatar (Protected State)
Phosphate	New Zealand	Petroleum
Salt	Asbestos	Rhodesia
Sillimanite, Kyanite	Bentonite	Antimony
Silver	Coal	Arsenic
Talc, Pyrophyllite	Copper	Asbestos
Titanium	Diatomaceous earth	Barytes
Tungsten	Gold	Bauxite
Vermiculite	Iron	Beryl
Zinc	Magnesite, Dolomite	China clay
Zircon	Natural gas	Chrome
Jamaica	Natural gasoline	Coal
Bauxite	Perlite	Copper
Gypsum	Petroleum	Corundum
Phosphate	Pumice	Fluorspar
Kenya	Salt	Gold
Asbestos	Silver	Iron
Barytes	Tungsten	Kyanite
Beryl	Wollastonite	Lead
China clay	Nigeria	Lithium
Columbite	China clay	Magnesite, Dolomite
Copper	Coal	Manganese
Diatomaceous earth	Gold	Mica
Feldspar	Lead	Nickel
Gold	Molybdenum	Phosphate
Gypsum	Monazite, Thorite	Pyrites
Magnesite	Natural gas	Silver
Mica	Petroleum	Talc
Phosphate	Salt	Tantalite
Pumice	Tantalite, Columbite	Tin
Salt	Tin	Tungsten
Silver	Tungsten	St. Kitts
Sodium carbonate	Zircon	Salt
Vermiculite		

Minerals produced in countries of the Commonwealth and Sterling Area (cont.)

Sarawak	Uganda—(cont.)	Burma—(cont.)
Antimony	Mica	Iron
Bauxite	Phosphate	Lead
Gold	Salt	Nickel
Petroleum	Silver	Petroleum
Phosphate	Tantalite, Columbite	Salt
Seychelles	Tin	Silver
Phosphate	Tungsten	Talc
Sierra Leone	United Kingdom	Tin
Bauxite	Barytes, Witherite	Tungsten
Chrome	Bromine	Zinc
Diamonds	China clay	Iceland
Gold	China stone	Pumice
Iron	Coal	Irish Republic
Titanium	Copper	Barytes
Swaziland	Diatomaceous earth	Coal
Asbestos	Fluorspar	Copper
Barytes	Fuller's earth	Gypsum
Beryl	Germanium	Lead
China clay	Gypsum, Anhydrite	Pyrites
Coal	Iron	Zinc
Gold	Lead	Jordan
Iron	Magnesite, Dolomite	Gypsum
Pyrophyllite	Natural gas	Phosphate
Silver	Oil-shale	Salt
Tin	Perlite	Libya
Tanzania	Petroleum	Gypsum
Bentonite	Pyrites	Petroleum
China clay	Salt	Salt
Coal	Strontium	South Africa
Copper	Sulphur	Antimony
Corundum	Talc	Asbestos
Diamonds	Tin	Barytes
Gold	Zinc	Bentonite
Gypsum	Virgin Islands	Beryl
Lead	Salt	Bismuth
Magnesite	Zambia	China clay
Mica	Cadmium	Chrome
Niobium	Cobalt	Coal
Phosphate	Copper	Copper
Salt	Gold	Corundum
Silver	Gypsum	Diamonds
Tin	Lead	Diatomaceous earth
Tungsten	Manganese	Feldspar
Vermiculite	Mica	Fluorspar
Trinidad	Salt	Fuller's earth
Gypsum	Selenium	Gadolinite
Natural asphalt	Silver	Garnet
Natural gas	Tantalite, Columbite	Gold
Natural gasoline	Tin	Graphite
Petroleum	Vanadium	Gypsum
Sulphur	Zinc	Iron
Turks and Caicos Islands	Burma	Lead
Salt	Antimony	Lithium
Uganda	Barytes	Magnesite
Beryl	Bismuth	Manganese
Bismuth	Coal	Mica
Cobalt	Copper	Monazite
Copper	Gold	Nickel
Gold	Gypsum	Phosphate
Lithium		

Minerals produced in countries of the Commonwealth and Sterling Area (cont.)

South Africa—(cont.)

Platinum, Osmiridium
Pyrites
Salt
Silver
Sillimanite, Andalusite
Sulphur
Talc
Tantalite
Tin
Titanium
Tungsten
Uranium
Vanadium
Vermiculite
Zinc
Zircon

South West Africa

Arsenic
Beryl
Bismuth
Cadmium
Copper
Diamonds
Feldspar
Fluorspar
Germanium
Gold
Graphite
Iron
Lead
Lithium
Manganese
Mica

South West Africa

—(cont.)
Phosphate
Salt
Sillimanite, Kyanite
Silver
Tantalite, Columbite
Tin
Tungsten
Vanadium
Wollastonite
Zinc

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