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OVERSEAS GEOLOGICAL SURVEYS
MINERAL RESOURCES DIVISION

STATISTICAL
SUMMARY OF THE
MINERAL INDUSTRY

WORLD PRODUCTION,
EXPORTS AND IMPORTS

1957-1962



LONDON
HER MAJESTY'S STATIONERY OFFICE
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This publication is prepared by the Statistical Section of the Mineral Resources Division of Overseas Geological Surveys.

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CHANGES IN THIS ISSUE

Statistics relating to Sodium Sulphate are included for the first time.

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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, British 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 Northern Rhodesia, Nyasaland and Southern Rhodesia, production statistics are recorded separately but the trade statistics are given for the Federation as a whole.

For Swaziland and Bechuanaland, 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 1957 to 1959 the trade statistics for Spain and Spanish Dependencies exclude the trade between these territories except in the cases of coal, coke, iron ore, manganese ore, petroleum and allied products, pyrites and salt. As from 1960 the statistics exclude all trade between these territories.

From 1958 to 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, notably Aden, Hong Kong and Malaya, 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. The imports of Pakistan for the years 1961 onwards shown in the tables are not strictly comparable with those for preceding years since they include for the first time estimated quantities of imports entered in the official trade returns by value only.

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.87) and Petroleum and Allied Products (pp. 241, 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	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Kenya—						
Pumice (b)	2,071	733	2,246	2,420	696	1,110
Southern Rhodesia—						
Corundum	4,024	4,102	2,499	3,432	2,493	2,989
Tripoli	—	—	—	147	365	378
Tanganyika—						
Corundum	—	—	(a) 9	—	(a) 4	—
Garnet	80	120	181	133	—	—
Canada—						
Garnet	—	—	—	29	71	45
Grindstones	—	—	54	9	9	9
India—						
Corundum	444	389	211	246	324	296
Garnet	—	—	361	n.a.	237	400
Australia—						
Garnet	70	36	65	97	63	53
New Zealand—						
Pumice (b)	15,171	23,082	28,395	43,932	32,712	32,522
OTHER COUNTRIES						
Belgium—						
Grindstones	64	44	47	49	57	56
France—						
Pumice (b)	7,840	6,296	1,842	889	1,299	1,700
Millstones	2,619	2,519	797	1,230	1,300	1,329
Sharpening stones	73	742	467	523	139	}
Germany (Federal)—						
Pumice (d)	2,912,000	2,906,000	3,607,000	4,234,000	5,266,000	5,617,000
Tripoli	n.a.	n.a.	30	25	6	25
Greece—						
Emery	7,000	7,000	7,000	7,000	7,100	n.a.
Pumice	54,681	44,298	64,000	80,000	70,000	(c) 79,000
Pumicite	78,200	84,311	84,000	180,000	190,000	(c) 200,000
Iceland—						
Pumice (b)	13,484	(c) 10,000	(c) 9,000	(c) 8,000	(c) 8,000	6,400
Italy—						
Pumice	231,511	252,958	361,582	419,698	396,717	n.a.
Sharpening stones	2,192	2,038	1,760	320	213	n.a.
Whetstones	669	384	630	472	399	n.a.
Portugal—						
Tripoli	1,440	1,034	1,852	1,046	756	1,427
Spain—						
Tripoli	12,371	11,481	10,322	12,357	17,273	n.a.
Garnet	248	363	216	180	185	n.a.
Sweden—						
Grindstones and whetstones	597	787	794	672	n.a.	n.a.
Canary Islands—						
Pumice (b)	—	—	1,640	1,441	1,415	(c) 1,500
Egypt—						
Pumice	1,639	1,058	2,461	2,953	3,871	3,838
Malagasy Republic—						
Garnet	345	233	—	—	49	(a) 76

*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.

PRODUCTION OF NATURAL ABRASIVES (cont.)

Long tons

Producing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
South Africa—						
Corundum	1,382	1,890	555	110	142	312
Garnet	16	—	—	—	—	—
United States (c)—						
Emery	10,619	6,863	7,638	7,294	5,518	3,854
Garnet	8,729	10,985	13,007	9,395	10,765	12,648
Pumice and pumicite						
(a) (b)	1,631,230	1,761,568	2,032,250	1,973,540	2,198,737	2,008,000
Tripoli	45,283	42,004	47,293	51,529	48,787	55,118
Grindstones	1,344	761	965	n.a.	n.a.	n.a.
Grinding pebbles	2,591	1,772	1,513	1,011	n.a.	n.a.
Argentina—						
Garnet	706	281	n.a.	n.a.	n.a.	n.a.
Turkey—						
Emery	4,063	3,363	4,753	6,706	8,195	3,354

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

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

	1957	1958	1959	1960	1961	1962
Silicon carbide ..	74,394	69,221	77,007	75,546	70,704	58,798
Fused alumina ..	194,810	97,774	135,999	167,058	111,866	144,508

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):

	1957	1958	1959	1960	1961	1962
Silicon carbide ..	111,329	98,621	118,266	118,946	112,255	103,318
Aluminium oxide ..	204,028	109,704	141,421	174,916	122,278	162,432
Metallic abrasives ..	117,413	90,321	113,142	100,342	97,781	112,296

(United States plants only)

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

(a) The amounts sold for abrasive purposes were as follows:

1957	18,897 long tons
1958	n.a.
1959	n.a.
1960	n.a.
1961	n.a.
1962	n.a.

(b) Including volcanic cinders used principally for ballast which amounted to 689,629 tons in 1957, 935,652 tons in 1958, 1,332,363 tons in 1959, 1,436,652 tons in 1960, 1,362,000 tons in 1961 and 1,554,000 tons in 1962.

(c) Sold or used by producers.

EXPORTS OF ABRASIVES*

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Abrasives, natural ..	2,322	1,442	2,339	2,829	2,195	2,045
do. artificial ..	3,221	3,209	3,744	4,435	3,991	5,320
Grinding wheels, etc. ..	4,547	4,150	4,968	5,752	6,777	5,835
Other manufactured abrasives ..	296	310	357	342	301	559
Rhodesia and Nyasland—						
Corundum ..	4,027	4,343	2,940	3,342	2,620	2,926
Tanganyika—						
Corundum ..	—	—	9	—	4	—
Canada—						
Natural abrasives, including diatomaceous earth ..	52	21	59	15	5	—
Artificial abrasives, crude ..	273,690	168,393	216,869	244,946	194,328	203,246
Artificial abrasive wheels, etc. ..	(£9,181)	(£15,105)	(£78,204)	(£26,121)	} (£46,821)	} (£93,721)
Grindstones ..	(£17,098)	(£26,161)	(£24,117)	(£17,028)		
Hong Kong—						
Natural abrasives ..	8	1	590	489	7	3
Grinding and polishing wheels, etc. ..	(£15,120)	(£11,642)	170	175	86	98
Malaya—						
Grinding and polishing wheels, etc. ..	54	52	87	101	59	59
New Zealand—						
Pumice (a) ..	1,569	1,082	1,128	995	1,155	n.a.
OTHER COUNTRIES						
Austria—						
Natural abrasives ..	802	729	41	15	1	3
Millstones and grindstones ..	325	392	6	5	9	13
Corundum, artificial ..	3,328	2,720	2,235	4,382	5,706	9,380
Belgium-Luxemburg E.U.—						
Natural abrasives ..	33	35	101	120	112	1
Corundum, artificial ..	4	46	53	80	187	28
Millstones, grindstones, etc. ..	81	65	64	(b) 517	(b) 779	(b) 983
Denmark—						
Emery ..	3	8	2	—	—	2
Millstones and grindstones ..	293	385	37	2	6	7
Finland—						
Grindstones, etc. (b) ..	388	120	261	n.a.	n.a.	n.a.
France—						
Corundum and emery ..	205	462	724	260	100	84
Pumice ..	12	19	56	30	37	33
Other natural abrasives ..	80	60	257	107	314	541
Millstones and grindstones ..	846	876	804	701	817	617
Whetstones ..	73	60	41	46	76	15
Carborundum ..	1,604	1,351	2,720	2,660	2,059	2,066
Corundum, artificial ..	5,548	5,613	6,775	9,978	14,487	12,204
Germany (Federal)—						
Emery and corundum ..	209	197	321	394	533	453
Pumice ..	194	(c) 545,755	(c) 495,421	(c) 649,977	(c) 680,570	(c) 622,932

*See also Aluminium, Diamonds and Diatomaceous earth.

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

(b) Including artificial.

(c) Including pumice and pumicite for construction purposes.

EXPORTS OF ABRASIVES (cont.)

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (Federal) <i>(cont.)</i>						
Other natural abrasives	1	7	40	9	4	9
Millstones, grindstones, etc. (a)	2,439	2,206	2,447	1,898	1,871	1,910
Carborundum	<i>n.a.</i>	4,200	3,358	5,384	6,160	7,712
Corundum, artificial ..	12,871	14,368	16,287	20,907	17,235	18,207
Greece—						
Emery	8,258	5,872	3,316	6,090	5,218	6,772
Pumice	38,135	41,006	20,799	r 31,525	11,951	68,067
Italy—						
Pumice	54,565	68,256	90,948	104,209	98,860	133,306
Emery and corundum	169	78	46	319	571	24
Tripoli	45	142	38	48	88	139
Millstones	133	262	386	431	353	9
Grindstones	129	124				
Whetstones	74	50	85	73	78	71
Carborundum	175	267	882	3,928	5,929	6,985
Corundum artificial ..	200	318	316	1,480	1,544	743
Netherlands—						
Natural abrasives ..	3,317	2,853	3,007	3,876	4,088	4,205
Norway—						
Natural abrasives ..	8	9	—	—	2	15
Carborundum	<i>n.a.</i>	<i>n.a.</i>	13,463	16,720	16,503	18,114
Sweden—						
Emery	—	—	1	2	—	5
Other natural abrasives	8	4	15	11	43	36
Carborundum	331	290	765	710	555	732
Corundum, artificial ..	552	706	852	1,227	1,360	829
Millstones, grindstones, etc.	142	108	132	126	158	79
Switzerland—						
Carborundum, emery, etc., crude	74	167	22	2,169	1,958	1,924
do. do. ground	1,723	1,632	2,017			
Malagasy Republic—						
Garnet	323	244	1	49	99	76
South Africa—						
Corundum	1,635	1,206	1,048	108	143	517
Mexico—						
Pumice, etc.	21	—	232	735	231	1,581
United States—						
Corundum	186	149	81	49	86	98
Emery powder	1,046	984	1,216	1,002	1,035	731
Grindstones	295	250	358	285	110	114
Whetstones, etc. ..	88	91	152	166	89	77
Other natural abrasives	65,650	10,677	9,398	9,245	10,140	9,563
Aluminium oxide, fused	9,587	8,156	8,155	9,792	10,525	12,078
Carborundum	6,830	9,506	7,347	7,316	10,921	9,130
Unfused alumina	50	68	59	97	77	133
Other crude artificial abrasives	138	89	93	99	130	160
Japan—						
Emery	187	150	172	126	155	237
Other natural abrasives	131	68	61	118	127	231
Grindstones, etc. ..	141	152	173	215	159	189
Artificial abrasives ..	263	293	359	345	445	1,214
Turkey—						
Emery	7,843	6,468	7,096	6,975	9,649	8,570

(a) Including artificial.

IMPORTS OF ABRASIVES*

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Emery	4,209	2,314	} 3,024	2,850	4,416	2,650
Garnet concentrates—						
Unground	431	455	} 8,019	10,224	9,322	8,308
Ground	394	339				
Other natural abrasives	7,277	6,787				
Aluminium oxide ..	23,067	27,957	14,226	24,570	14,238	12,428
Carborundum	9,539	7,883	9,161	14,030	12,510	13,744
Grinding wheels of hard abrasives	} 151	177	319	370	540	691
Grindstones and whetstones						
Malta—						
Pumice	78	81	141	73	102	—
Kenya and Uganda—						
Grindstones, etc. ..	45	46	62	59	60	45
Mauritius—						
Grindstones, etc. ..	44	30	60	58	54	42
Rhodesia and Nyasaland—						
Grinding and polishing wheels and stones ..	<i>n.a.</i>	<i>n.a.</i>	135	166	229	184
Tanganyika—						
Grindstones, wheels, etc.	18	13	21	8	12	12
Canada—						
Pumice, etc.	(£94,935)	(£109,144)	(£74,625)	(£71,816)	(£59,073)	(£79,545)
Emery, etc.	(£92,868)	(£86,096)	(£89,533)	(£74,322)	(£66,716)	(£68,553)
Artificial abrasives, ground	(£820,892)	(£703,823)	(£877,375)	(£752,561)	(£833,720)	(£963,746)
Buhrstones	(£219)	—	—	—	—	—
Artificial abrasive manufactures	(£223,650)	(£203,924)	(£234,754)	(£208,550)	(£194,207)	(£190,086)
Grindstones and wheels	(£886,165)	(£774,907)	(£940,982)	(£860,635)	(£831,574)	(£903,191)
Jamaica—						
Natural abrasives ..	5	3	5	2	6	9
Grindstones	6	10	12	12	11	10
Trinidad and Tobago—						
Grindstones and wheels	15	19	25	22	19	15
Ceylon—						
Grindstones	(£9,969)	(£9,529)	(£11,848)	(£13,909)	(£12,581)	(£12,016)
Cyprus—						
Grindstones and millstones	(£3,926)	(£3,440)	(£6,751)	(£8,417)	(£7,757)	(£8,964)
Hong Kong—						
Natural abrasives ..	8	6	629	568	74	168
Grinding and polishing wheels, etc.	(£40,316)	(£35,049)	257	324	218	330
India—						
Natural abrasives ..	2,384	986	1,973	(a) 3,679	(a) 3,673	(a) 2,590
Carborundum	231	175	116	(a) 223	(a) 202	(a) 169
Malaya—						
Grinding and polishing wheels, etc.	408	368	462	476	407	462
Sarawak—						
Grinding and polishing wheels, etc.	34	24	41	38	38	44

*See also Aluminium, Diamonds and Diatomaceous earth.

(a) Years ended March 31 following that stated.

IMPORTS OF ABRASIVES (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES (cont.)						
Australia (b)—						
Emery	79	132	93	108	—	—
Corundum	26	93	13	35	—	—
Pumice	1,210	1,414	1,174	1,215	1,046	1,134
Grindstones, etc. ..	113	87	99	183	228	150
Garnet grains	41	48	53	41	50	43
Tripoli	244	306	454	303	465	338
Other natural abrasives	99	151	81	472	457	523
Artificial abrasives ..	2,887	2,793	3,132	2,813	4,202	2,648
New Zealand—						
Pumice	2	—	1	—	—	—
Corundum, emery, etc.	9	18	r 12	19	20	8
Other natural abrasives (£N.Z.)	(£3,602)	(£2,966)	(£1,968)	(£3,808)	(£4,169)	(£2,587)
Carborundum, etc. ..	50	79	69	44	74	74
Grindstones, etc. (£N.Z.)	(£17,007)	r (£15,005)	(£12,896)	(£15,856)	(£16,481)	n.a.
Irish Republic—						
Grindstones, oilstones, etc.	102	122	111	136	171	178
OTHER COUNTRIES						
Austria—						
Pumice	510	417	410	659	835	400
Other natural abrasives	221	200	173	160	107	135
Carborundum	} 2,644	} 3,000	} 1,504	1,039	1,191	1,096
Corundum, artificial ..				2,298	2,400	2,392
Grindstones				64	86	147	221	146	141
Millstones	83	97				
Belgium-Luxemburg E.U.—						
Natural abrasives ..	4,688	945	1,117	1,063	1,491	825
Corundum, artificial ..	1,196	1,094	1,130	1,524	1,604	1,824
Millstones, grindstones, etc.	236	161	166	(a) 1,014	(a) 1,170	(a) 1,186
Carborundum	1,262	1,040	1,204	1,463	1,918	1,943
Denmark—						
Emery, etc.	466	380	1,641	616	416	505
Pumice	1,406	1,696	2,008	1,986	2,655	2,927
Carborundum	608	697	317	429	286	293
Corundum, artificial ..	n.a.	n.a.	257	444	431	383
Millstones and grindstones	150	210	134	134	83	127
Finland—						
Emery, pumice, etc. ..	500	479	591	531	434	381
Carborundum	263	275	351	290	493	729
Millstones, grindstones, etc. (a)	739	726	984	1,289	1,463	1,416
France—						
Emery and corundum	830	3,030	399	1,811	1,854	1,581
Pumice	91,961	81,843	42,734	37,979	23,726	30,387
Other natural abrasives	8	412	164	151	303	256
Millstones and grindstones	103	196	271	178	233	386
Whetstones	94	130	193	142	60	44
Carborundum	1,793	1,805	1,124	2,012	4,065	4,292
Corundum, artificial ..	860	723	494	899	1,110	1,664

(a) Including artificial.

(b) Years ended June 30 of that stated.

IMPORTS OF ABRASIVES (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (Federal)—						
Emery and corundum ..	1,293	991	537	1,457	866	1,099
Pumice, etc.	6,459	6,144	6,182	9,576	8,310	6,582
Other natural abrasives	76	150	436	1,212	1,415	1,771
Millstones, grindstones,						
etc. (a)	276	331	300	281	582	341
Carborundum	<i>n.a.</i>	1,551	2,375	3,450	4,868	4,033
Corundum, artificial ..	499	398	530	2,539	2,117	2,587
Iceland—						
Millstones, etc. ..	13	16	24	12	14	16
Italy—						
Emery and corundum ..	1,545	1,896	1,376	2,277	2,651	2,003
Tripoli	639	586	536	938	1,244	1,143
Millstones	142	36	326	340	455	34
Grindstones	89	95				
Whetstones	15	15	20	28	51	31
Corundum, artificial ..	3,002	2,959	2,822	4,996	4,811	5,120
Carborundum	2,181	1,863	1,304	2,028	2,667	4,144
Netherlands—						
Emery	3,980	3,723	3,362	4,616	4,193	5,593
Other natural abrasives	1,698	1,907	2,117	1,670	614	463
Millstones and grind-						
stones	142	132	170	(a) 1,247	(a) 1,311	(a) 1,318
Corundum, artificial ..	1,464	1,526	1,820	2,236	2,246	2,025
Carborundum	579	657	739	861	523	610
Norway—						
Natural abrasives ..	552	581	362	429	436	388
Whetstones	1	3	2	3	2	8
Corundum, artificial ..	<i>n.a.</i>	<i>n.a.</i>	378	557	626	525
Portugal—						
Emery, etc.	512	613	579	191	351	186
Pumice	201	242	219	115	176	255
Millstones etc.	63	42	75	20	64	44
Spain—						
Emery powder	15	21	112	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Carborundum	1,268	395	553	381	572	788
Sweden—						
Emery	586	405	487	728	635	405
Pumice	205	263	584	416	361	700
Other natural abrasives	801	1,019				
Carborundum, etc. ..	2,517	1,815	2,582	3,819	2,947	3,891
Corundum, artificial ..	3,519	2,630	3,281	7,585	5,390	4,329
Grindstones, etc. ..	128	121	176	94	121	99
Millstones	51	48				
Switzerland—						
Emery, crude	343	532	304	625	1,353	1,503
Carborundum, emery,						
etc., ground	2,194	1,874	1,992			
Pumice (b)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	23,596	20,467	18,194
Millstones	51	83	57	148	107	82
Grindstones	202	169	198			
Whetstones	17	12	16	26	19	21
Corundum, artificial ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	3,532	3,751	4,250
Yugoslavia—						
Natural abrasives ..	1,217	1,418	1,179	570	1,091	884
Carborundum	<i>n.a.</i>	53	323	289	670	613
Algeria—						
Emery, corundum, etc.	95	78	241	102	<i>n.a.</i>	<i>n.a.</i>
Pumice (b)	23,191	32,625	43,671	45,947	<i>n.a.</i>	<i>n.a.</i>
Millstones and grind-						
stones	84	181	136	113	<i>n.a.</i>	<i>n.a.</i>

(a) Including artificial.

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

IMPORTS OF ABRASIVES (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES (cont.)						
Congo Republic—						
Natural abrasives	27	22	12	n.a.	n.a.	n.a.
Corundum, artificial	128	227	129	n.a.	n.a.	n.a.
Egypt—						
Natural abrasives	2,383	1,105	2,555	2,034	1,726	n.a.
Millstones	21	27	16	1	2	n.a.
Grindstones	14	—	6	16	2	n.a.
Whetstones	—	—	3	1	4	n.a.
Malagasy Republic—						
Natural abrasives	91	65	22	15	15	17
Morocco—						
Millstones and grindstones	30	46	46	56	50	65
Natural abrasives	131	23	35	30	96	8
South Africa—						
Emery	41	96	123	105	37	n.a.
Pumice	62	73	60	63	71	n.a.
Other abrasives	(£189,850)	(£186,205)	(£171,616)	(£186,319)	(£192,400)	n.a.
Abrasive wheels and discs	(£66,605)	(£70,044)	(£70,455)	(£124,859)	(£130,512)	n.a.
Grindstones, millstones, etc.	(£2,933)	(£4,375)	(£5,349)	(£3,084)	(£3,541)	n.a.
Sudan—						
Grindstones	119	104	104	108	64	n.a.
Tunisia—						
Pumice	7	550	25	11	252	42
Millstones and grindstones (a)	58	109	77	440	79	33
Cuba—						
Grindstones	639	1,035	246	n.a.	n.a.	n.a.
Guatemala—						
Natural abrasives	22	24	9	5	3	3
Mexico—						
Emery and carborundum	1,049	1,306	741	746	1,125	1,018
Pumice	360	7	15	27	9	67
Millstones and grindstones	795	784	680	828	887	428
United States—						
Corundum, crude	3,664	4,183	2,978	2,370	2,139	2,170
Emery, crude	1,191	11	1,000	—	1,000	2,000
Corundum and emery, ground	645	462	8	3	15	780
Pumice, crude	31,413	34,476	19,393	5,853	6,168	6,371
do. manufactured	1,897	1,673	3,561	3,496	3,628	2,843
Tripoli, etc.	8	38	15	34	—	n.a.
Crude artificial abrasives	251,351	140,830	201,357	223,352	176,784	185,657
Argentina—						
Emery	2,759	2,628	1,919	1,540	2,359	1,447
Grindstones	1	1	—	5	18	15
Brazil—						
Emery, pumice, etc.	69	63	51	99	101	71
Carborundum	460	478	452	462	470	176
Millstones, grindstones, etc.	284	173	144	166	158	98
Chile—						
Emery	68	24	51	62	n.a.	n.a.
Carborundum	7	11	2	5	n.a.	n.a.
Millstones, grindstones, etc.	290	185	228	397	n.a.	n.a.

(a) Including artificial.

IMPORTS OF ABRASIVES (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES (cont.)						
Colombia—						
Emery and pumice ..	81	50	52	65	35	69
Tripoli and other natural abrasives ..	149	87	32	39	49	30
Millstones and grindstones (a) ..	107	156	136	176	196	224
Peru—						
Emery and pumice ..	34	38	55	34	38	47
Millstones, grindstones, etc. (a) ..	89	59	86	99	109	160
Venezuela—						
Natural abrasives ..	114	66	88	102	99	77
Carborundum ..	85	113	77	38	41	22
Burma—						
Natural abrasives ..	—	47	471	453	55	194
Indonesia—						
Emery ..	109	33	47	106	66	n.a.
Other natural abrasives ..	121	76	37	39	186	n.a.
Iran (b)—						
Emery, etc. ..	9	12	21	29	n.a.	n.a.
Iraq—						
Emery, pumice, etc. ..	10	9	4	28	n.a.	n.a.
Grindstones, whetstones, etc. ..	160	170	149	256	n.a.	n.a.
Japan—						
Emery ..	190	44	106	157	194	126
Other natural abrasives ..	366	393	472	517	594	893
Grindstones, etc. ..	33	2	6	10	10	12
Artificial abrasives ..	623	451	479	834	1,772	1,363
Lebanon—						
Emery ..	7	—	6	5	1	n.a.
Pumice, etc. ..	4	11	10	673	635	n.a.
Millstones ..	20	7	35	(a) 130	106	n.a.
Philippine Republic—						
Emery ..	277	176	122	211	313	159
Pumice ..	2	42	31	—	4	8
Other natural abrasives ..	176	69	45	39	70	19
Syria—						
Emery ..	1	98	30	n.a.	n.a.	n.a.
Pumice, etc. ..	11	1,065	867	n.a.	n.a.	n.a.
Thailand—						
Natural abrasives ..	492	549	538	485	607	647
Turkey—						
Natural abrasives ..	3	—	1	—	—	—
Millstones and grindstones (a) ..	263	186	127	561	648	511

(a) Including artificial.

(b) Years ended March 20 of that following.

ALUMINIUM
(Including Bauxite and Cryolite)
PRODUCTION OF BAUXITE

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Ghana (a)	185,403	207,120	147,833	224,472	196,072	286,798
Southern Rhodesia	—	—	—	—	—	500
Jamaica (b)	4,595,943	5,721,990	5,125,603	5,744,791	6,663,120	7,495,122
British Guiana (c)	2,201,903	1,585,879	1,674,416	2,471,190	2,373,615	2,718,997
India	107,898	166,188	214,548	377,470	468,389	563,865
Malaya	325,629	262,354	381,747	451,958	409,881	349,419
Pakistan (f)	3,316	1,977	2,139	574	405	—
Sarawak	—	136,319	206,848	284,830	253,389	225,459
Australia	7,707	6,909	14,985	69,435	15,976	29,240
TOTAL	7,427,799	8,088,736	7,768,119	9,624,720	10,380,847	11,669,400
OTHER COUNTRIES						
Austria	21,972	23,198	23,602	25,595	17,729	16,693
France	1,662,852	1,800,625	1,729,283	2,034,654	2,189,765	2,124,000
Germany (Federal)	4,600	3,700	4,400	3,752	4,165	4,583
Greece	820,487	842,682	903,970	869,741	1,102,000	1,300,000
Hungary	893,140	1,032,441	923,001	1,171,120	1,336,860	1,450,000
Italy	257,478	294,307	289,596	308,088	322,012	304,439
Roumania	60,000	72,000	70,000	87,000	68,000	30,000
Spain	8,069	8,213	7,538	2,532	5,506	6,000
U.S.S.R. (e)	2,410,000	2,750,000	3,000,000	3,500,000	4,000,000	4,000,000
Yugoslavia	874,211	721,000	802,000	1,009,000	1,213,000	1,311,000
Guinea	360,100	325,000	296,220	1,356,052	1,738,775	1,348,000
Mozambique	4,963	4,672	4,216	4,764	4,597	6,118
Dominican Republic (b)	—	—	759,000	678,000	701,000	706,000
Haiti (b)	263,000	280,000	255,000	268,000	263,000	451,400
United States (b)	1,416,000	1,311,000	1,700,000	1,998,000	1,228,000	1,369,000
Brazil	62,546	68,750	95,466	118,856	96,398	187,696
Surinam	3,324,000	2,941,000	3,376,000	3,400,000	3,351,000	(a)3,201,830
Indonesia	237,653	338,473	381,137	389,429	413,225	484,000
TOTAL (d)	12,700,000	12,800,000	14,600,000	17,200,000	18,100,000	18,300,000
WORLD'S TOTAL (d)	20,100,000	20,900,000	22,400,000	26,800,000	28,400,000	30,000,000

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):

	1957	1958	1959	1960	1961	1962
Metallurgical	1,628,172	1,076,510	1,154,713	1,645,457	1,089,071	1,341,846
Chemical	84,405	75,606	92,916	143,926	142,387	129,256
Refractory	125,190	95,030	146,374	160,966	203,442	219,410
Abrasive	164,382	96,910	123,425	148,033	168,923	146,975

Exports of calcined ore are shown on page 12.

(d) Estimated.

(e) United States Bureau of Mines estimate.

(f) West Pakistan.

PRODUCTION (EXPORTS) OF CRYOLITE IN GREENLAND

Year	Long tons
1957	48,515
1958	40,323
1959	41,377
1960	41,785
1961	41,115
1962	40,296

PRODUCTION OF ALUMINIUM

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom (a) ..	29,404	26,354	24,519	28,921	32,294	34,030
Canada	497,067	566,162	530,027	680,368	592,119	616,337
India	7,784	8,185	17,081	17,967	18,095	34,653
Australia	10,624	10,906	11,370	11,655	13,204	16,200
TOTAL	544,879	611,607	582,997	738,911	655,712	701,200
OTHER COUNTRIES						
Austria	58,474	55,996	64,528	66,897	66,585	72,665
Czechoslovakia	16,425	25,980	(d) 34,500	(d) 39,000	(d) 49,000	(d) 59,000
France	157,402	166,168	170,279	234,723	275,042	289,000
Germany—						
Federal (b)	151,408	134,606	148,778	166,269	170,000	175,000
East (c)	32,000	r 35,000	r 35,000	r 40,000	40,000	40,000
Hungary	25,585	38,892	44,947	48,752	50,256	51,899
Italy	65,161	r 62,772	r 73,741	82,327	82,037	79,955
Norway	94,134	119,444	143,644	162,198	168,847	202,616
Poland	20,038	22,088	22,400	25,600	46,800	47,300
Spain	14,929	15,865	22,284	23,597	37,053	40,296
Sweden	13,356	13,493	15,277	15,732	15,592	16,658
Switzerland	30,569	31,000	33,827	39,103	41,543	48,787
U.S.S.R. (d)	490,000	540,000	620,000	670,000	880,000	880,000
Yugoslavia	17,848	21,339	18,941	24,674	26,974	27,538
Cameroun	7,411	31,358	41,647	43,246	43,010	51,423
United States (e)	1,471,169	1,397,819	1,744,743	1,798,659	1,699,742	1,891,008
Brazil	8,745	11,698	17,812	r 17,888	19,713	28,839
China (d)	20,000	26,600	69,300	78,700	98,000	98,000
Formosa	8,129	8,442	7,367	8,131	8,874	10,941
Japan	66,905	83,242	98,558	131,119	151,272	168,742
TOTAL	2,800,000	2,800,000	3,400,000	3,700,000	4,000,000	4,300,000
WORLD'S TOTAL	3,300,000	3,500,000	4,000,000	4,500,000	4,600,000	5,000,000

(a) In addition secondary metal was recovered as follows :

1957	108,385 long tons
1958	109,746 " "
1959	121,373 " "
1960	129,812 " "
1961	131,024 " "
1962	141,180 " "

(b) In addition secondary metal was recovered as follows :

1957	88,332 long tons
1958	100,154 " "
1959	111,276 " "
1960	131,580 " "
1961	133,311 " "
1962	140,486 " "

(c) Estimated.

(d) United States Bureau of Mines' estimate.

(e) In addition secondary metal was recovered as follows :

1957	323,053 long tons
1958	258,531 " "
1959	321,363 " "
1960	294,152 " "
1961	303,791 " "
1962	357,099 " "

EXPORTS OF ALUMINIUM, ETC.*

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Alumina and hydrate ..	32,725	38,243	33,424	26,349	23,829	15,825
Unwrought (a) ..	6,896	2,124	3,664	3,925	5,408	5,379
Scrap (a) ..	52	55	134	94	2,800	4,232
Semi-manufactures (a)	41,880	35,357	49,507	49,267	53,165	59,178
of which—Foil ..	5,357	6,035	7,418	7,157	6,096	6,473
Powder ..	725	529	954	983	510	466
Aluminium sulphates ..	34,619	34,841	30,263	38,457	33,486	27,807
Ghana—						
Bauxite ..	185,403	207,120	147,833	224,472	196,072	286,798
Canada—						
Alumina ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	16,853	3,458
Unwrought (a) ..	427,384	432,534	451,198	492,995	434,857	514,470
Scrap ..	11,502	11,262	14,444	24,616	26,285	27,005
Semi-manufactures (a)	11,454	14,331	22,594	27,012	20,639	20,630
of which—Foil ..	210	153	132	117	131	413
Jamaica—						
Bauxite (b) ..	3,641,353	4,799,037	4,196,793	4,147,555	4,974,802	5,986,678
Alumina ..	435,746	373,108	399,210	665,361	703,483	627,645
British Guiana—						
Bauxite, dried ..	1,734,064	1,168,637	1,242,381	1,787,963	1,235,556	(d)1,471,102
do. calcined ..	287,130	195,649	272,305	306,958	370,761	(d) 366,573
Alumina ..	—	—	—	—	120,161	(d) 207,948
Hong Kong—						
Unwrought (a) ..	7	24	5,054	10,380	4,722	1,571
Scrap ..	94	229	334	542	797	638
Semi-manufactures (a)	723	1,006	1,105	1,231	2,048	1,955
of which—Foil ..	357	180	184	88	62	112
Aluminium sulphate ..	<i>n.a.</i>	<i>n.a.</i>	3	4	—	10
India—						
Bauxite ..	8,467	20,549	23,189	74,446	97,725	172,549
Semi-manufactures (a)	25	14	11	(c) 19	(c) 19	(c) 15
Aluminium sulphate ..	246	129	135	(c) 449	(c) 62	(c) 1,649
Malaya—						
Bauxite ..	340,624	246,605	363,809	447,996	284,357	314,858
Unwrought (a) ..	10	10	16	4	17	—
Semi-manufactures (a)	225	160	286	275	241	457
of which—Foil ..	2	14	80	34	35	276
Aluminium sulphates ..	477	242	341	347	126	129
Sarawak—						
Bauxite ..	—	92,840	202,925	260,120	256,442	198,698
Australia—						
Bauxite ..	—	—	—	29,778	30,489	6,470
Unwrought (a) ..	762	—	78	20	7	40
Scrap (a) ..	155	123	587	659	564	355
Semi-manufactures (a)	83	135	162	282	345	248
OTHER COUNTRIES						
Austria—						
Bauxite ..	6,765	8,516	6,498	5,584	7,671	4,969
Unwrought (a) ..	22,524	31,695	37,642	21,399	27,858	41,144
Scrap ..	3,240	4,681	4,027	4,011	3,537	4,299
Semi-manufactures (a)	7,224	6,300	11,712	9,383	14,323	15,734
of which—Foil ..	<i>n.a.</i>	<i>n.a.</i>	2,339	3,825	2,488	2,768
Powder ..	<i>n.a.</i>	<i>n.a.</i>	573	584	828	962

*In these tables the description "unwrought" aluminium corresponds to item 684.1 of the Standard International Trade Classification and comprises ingots, blocks, unwrought bars, etc. "Semi-manufactures" corresponds to S.I.T.C. 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	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Belgium-Luxemburg—						
Alumina and hydrate ..	1	1	15	109	8	2
Unwrought ..	421	738	590	252	105	158
do. alloys ..	110	289	325	674	496	637
Scrap ..	387	2,586	1,489	1,788	1,998	2,700
Semi-manufactures (a)	19,633	25,908	33,740	43,081	51,317	57,674
Aluminium sulphates ..	18,097	16,407	16,583	17,504	12,329	12,509
Denmark—						
Refined cryolite ..	21,638	20,655	21,320	23,197	24,578	25,008
Unwrought ..	22	224	68	30	10	5
do. alloys ..	642	800	1,027	1,355	1,398	1,427
Scrap ..	290	298	613	703	851	697
Semi-manufactures (a)	444	529	860	1,327	790	705
of which—Foil ..	93	123	280	233	193	205
France—						
Bauxite ..	320,232	303,794	271,288	312,097	252,264	262,418
Cryolite ..	3	79	118	79	2	117
Alumina ..	113,738	172,215	184,685	139,413	136,148	165,097
do. hydrate ..	11,136	7,677	17,388	12,579	15,802	13,243
Unwrought ..	13,169	39,359	32,758	56,428	104,775	84,254
do. alloys ..	2,772	9,630	18,037	14,208	17,076	19,274
Scrap (a) ..	448	1,531	2,328	1,513	2,262	7,202
Semi-manufactures (a)	7,446	11,283	16,911	25,858	26,296	28,715
of which—Foil ..	1,906	2,125	3,951	6,858	5,439	7,179
Powder ..	137	186	300	495	183	90
Aluminium sulphates ..	6,489	6,283	6,905	9,436	6,828	7,824
Germany (Federal)—						
Bauxite and cryolite ..	74	165	668	406	458	622
Alumina ..	75,987	84,749	90,357	66,398	72,706	65,059
do. hydrate ..	17,941	18,631	25,109	24,776	26,897	28,146
Unwrought ..	5,059	3,646	1,093	1,713	2,407	2,015
do. alloys ..	1,877	605	659	982	1,359	3,914
Scrap (a) ..	174	23	196	215	512	1,451
Semi-manufactures (a)	21,589	24,674	31,486	37,336	41,094	46,332
of which—Foil ..	8,561	9,669	12,959	15,946	15,857	16,773
Powder ..	1,086	1,562	1,311	1,579	1,445	1,397
Greece—						
Bauxite ..	769,024	823,243	841,198	891,359	1,033,511	886,665
Hungary—						
Bauxite ..	459,419	529,977	458,915	490,959	689,509	707,661
Alumina ..	88,097	85,376	112,201	119,241	142,666	124,401
Unwrought ..	1,841	17,067	8,272	9,693	8,582	6,427
Semi-manufactures ..	4,207	5,458	4,719	4,217	5,289	5,449
Italy—						
Alumina ..	38,389	53,098	41,973	42,844	29,028	27,982
do. hydrate ..	16	637	89	90	46	2,715
Unwrought ..	1,058	8,872	9,284	894	17	131
do. alloys ..	1	187	379	323	70	
Semi-manufactures (a)	3,627	5,362	6,234	5,407	6,633	7,152
of which—Foil ..	395	445	537	979	849	739
Aluminium sulphates ..	2,152	4,470	2,219	8,733	10,530	10,388
Netherlands—						
Unwrought (a) ..	654	2,207	1,726	647	2,393	772
Scrap (a) ..	1,567	4,123	1,611	1,847	2,167	4,777
Semi-manufactures (a)	5,059	6,690	7,961	9,018	10,074	10,605
of which—Foil ..	1,866	2,033	2,462	3,186	3,232	2,992
Powder ..	331	234	300	147	81	2
Norway—						
Alumina ..	5	—	1	2	2	24
Unwrought ..	71,054	108,085	125,786	125,853	138,658	160,002
do. alloys ..			4,234	10,105	5,327	8,976
Scrap ..	96	124	158	420	291	423
Semi-manufactures (a)	4,083	4,108	4,412	5,103	4,354	4,446
of which—Foil ..	40	48	83	95	45	151

(a) Including alloys.

EXPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Roumania—						
Bauxite	<i>n.a.</i>	36,400	80,700	86,700	32,500	14,800
Spain—						
Unwrought	—	—	180	10,887	3,934	10,439
Semi-manufactures (a)	—	—	327	2,229	4,202	13,943
Sweden—						
Unwrought (a)	459	3,042	1,815	76	82	241
Scrap	2,482	2,524	1,685	904	686	822
Semi-manufactures (a)	3,550	3,004	5,778	6,401	5,919	7,382
of which—Powder ..	<i>n.a.</i>	<i>n.a.</i>	166	378	228	344
Aluminium sulphates ..	9,426	9,598	9,794	9,617	9,181	9,499
Switzerland—						
Unwrought and scrap ..	2,927	8,522	10,924	} 7,342	5,983	8,428
do. alloys	2,551	3,856	3,760			
Semi-manufactures (a)	3,330	3,776	4,812			
U.S.S.R.—						
Cryolite	1,000	100	100	3,100	3,100	2,800
Unwrought	84,100	113,100	76,200	67,000	84,600	113,900
Yugoslavia—						
Bauxite	688,916	583,019	592,019	790,398	915,107	899,523
Alumina and hydrate ..	12,502	3,592	23,450	19,317	14,000	13,959
Unwrought	2,541	5,384	—	—	—	—
Scrap	1,262	1,274	1,191	59	1,176	1,887
Semi-manufactures ..	2,225	5,925	9,862	14,229	11,745	12,456
Algeria—						
Scrap (a)	567	781	867	1,053	<i>n.a.</i>	<i>n.a.</i>
Cameroun—						
Unwrought	6,763	21,938	38,586	41,408	45,416	50,125
Guinea—						
Bauxite	369,436	259,454	275,693	693,703	346,024	<i>n.a.</i>
Alumina	—	—	—	168,669	384,663	450,425
Morocco—						
Scrap (a)	775	1,238	1,363	971	1,038	670
Mozambique—						
Bauxite	4,477	2,916	6,138	4,389	4,082	<i>n.a.</i>
Dominican Republic—						
Bauxite	—	—	481,266	774,716	855,561	(d) 873,711
Greenland—						
Cryolite	48,515	40,323	41,377	41,785	41,115	40,296
Haiti—						
Bauxite (b)	373,000	370,629	338,151	395,000	335,000	(d) 414,710
United States—						
Alumina, etc.	60,993	11,868	17,403	29,317	150,683	258,561
Cryolite (c)	148	147	157	202	149	990
Unwrought (a)	25,987	47,064	108,308	254,446	115,054	135,045
Scrap (a)	16,219	16,880	28,718	70,994	73,219	58,513
Semi-manufactures ..	19,302	14,156	14,858	21,192	31,126	49,948
of which—Foil	791	264	506	1,177	1,515	2,220
Powder (Al content)	424	296	371	302	266	427
Aluminium sulphates ..	17,580	8,807	12,935	10,970	12,691	15,871
Brazil—						
Bauxite	3,115	3,445	2,803	2,018	1,673	1,968
Surinam—						
Bauxite	3,324,649	2,820,000	3,338,000	3,577,000	3,350,000	3,201,830
Formosa—						
Unwrought (a)	3,269	1,775	2,045	60	2,403	2,585
Semi-manufactures (a)	—	11	608	921	1,251	1,483
Indonesia—						
Bauxite	253,815	385,544	243,087	342,454	414,083	442,110

(a) Including alloys.

(c) Including artificial.

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

(d) United States imports.

EXPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Japan—						
Cryolite	—	101	22	—	—	2
Alumina	6,174	50,527	94,529	77,854	102,222	94,900
do. hydrate	1,530	695	281	1,443	2,318	5,998
Unwrought	235	4,340	169	6	14	5,406
Semi-manufactures (a)	4,341	6,621	7,801	9,000	10,457	12,419
of which—Foil	675	831	1,077	1,663	2,265	3,365
Aluminium sulphates ..	2,632	3,997	14,117	9,567	12,640	12,340

(a) Including alloys.

IMPORTS OF ALUMINIUM, ETC.*

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Bauxite	354,460	350,742	327,188	375,316	395,014	425,667
Cryolite	2,203	3,622	3,458	3,578	3,855	1,930
Alumina	280	239	6,080	7,048	4,672	5,001
Unwrought	184,375	186,311	227,864	257,801	195,549	197,670
do. alloys	6,818	24,011	22,282	52,733	40,336	52,885
Scrap (a)	623	1,594	6,698	15,695	5,712	8,437
Semi-manufactures (a)	1,513	3,448	6,451	13,504	21,084	21,744
of which—Foil.. ..	857	1,176	1,578	1,848	1,777	2,263
Ghana—						
Unwrought (a)	1,189	793	2,510	1,849	2,604	924
Semi-manufactures (a)					2,081	3,303
Kenya—						
Unwrought (a)	691	1,053	832	1,634	1,209	1,235
Semi-manufactures (a)	787	881	1,009	1,267	773	621
of which—Foil.. ..	119	152	174	211	183	194
Mauritius—						
Semi-manufactures (a)	178	200	196	201	136	227
Nigeria—						
Unwrought and semi-manufactures (a)	2,172	1,882	2,681	3,877	4,779	5,257
Rhodesia and Nyasaland—						
Semi-manufactures (a)	772	676	695	1,198	1,113	1,241
of which—Foil.. ..	57	76	90	137	213	296
Sierra Leone—						
Semi-manufactures (a)	104	108	42	56	316	89
Tanganyika—						
Semi-manufactures (a)	508	452	370	285	162	156
Uganda—						
Semi-manufactures (a)	565	548	473	686	299	192
of which—Foil.. ..	41	44	44	77	87	94
Zanzibar—						
Semi-manufactures (a)	9	12	18	5	8	7
Barbados—						
Semi-manufactures (a)	121	34	61	12	33	74
Jamaica—						
Semi-manufactures (a)	877	618	983	r 1,145	1,384	1,111
Canada—						
Bauxite and alumina—						
For refining	2,026,327	1,934,371	1,849,998	2,468,174	1,976,385	1,796,491
For other purposes	241,628	134,615	165,625	195,100	158,715	197,865
Cryolite	14,212	6,103	5,369	7,446	3,601	4,562
Unwrought	1,895	10,050	761	447	567	3,441
Scrap	221	220	552	895	1,384	1,131
Semi-manufactures (a)						
(excluding Foil)	12,632	7,789	7,449	6,579	8,543	16,743
of which—Powder	323	136	146	134	60	109
Foil	(£350,091)	(£364,828)	(£335,584)	(£448,458)	(£441,451)	(£438,712)
Aluminium sulphates	14,394	6,355	7,484	8,877	4,318	2,934
Trinidad and Tobago—						
Semi-manufactures (a)	1,267	922	761	944	1,163	936
Aluminium sulphates	1,847	303	336	298	487	997
British Guiana—						
Semi-manufactures (a)	483	168	222	342	264	n.a.
Aluminium sulphates	343	424	480	510	337	n.a.
Aden—						
Semi-manufactures (a)	146	172	149	290	245	n.a.
Ceylon—						
Semi-manufactures (a)	1,159	1,918	1,667	2,317	2,515	2,882
of which—Foil.. ..	371	406	411	354	220	170

* See footnote on p.12 concerning the descriptions "unwrought" aluminium and "semi-manufactures" used in these tables.

(a) Including alloys.

IMPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES—(cont.)						
Cyprus—						
Semi-manufactures (a)	93	84	115	130	247	180
Hong Kong—						
Bauxite	169	315	412	623	745	315
Unwrought (a) ..	1,596	2,572	10,081	16,420	9,941	6,175
Scrap	5	56	70	39	14	11
Semi-manufactures (a)	1,751	1,300	1,393	2,529	2,020	2,406
of which—Foil ..	891	242	406	643	478	836
Aluminium sulphate ..	n.a.	n.a.	675	270	603	762
North Borneo—						
Semi-manufactures (a)	56	121	53	77	63	75
India—						
Cryolite	590	1,649	917	(b) 1,454	(b) 3,918	(b) 2,636
Alumina	592	59	9,945	(b) 12,188	(b) 9,264	(b) 19,672
Unwrought	5,748	7,049	6,743	(b) 10,283	(b) 7,941	(b) 14,936
do. alloys	9	66	63	(b) 13	(b) 21	(b) 3
Scrap	1,815	126	—	(b) 20	(b) 64	(b) —
Semi-manufactures (a)	14,961	12,049	12,205	(b) 14,709	(b) 17,194	(b) 22,555
of which—Foil ..	647	849	1,625	(b) 2,638	(b) 2,004	(b) 957
Powder	132	70	171	(b) 77	(b) 73	(b) 149
Aluminium sulphates ..	314	293	38	(b) 1	(b) 1	(b) 1
Malaya—						
Unwrought (a) ..	4	1	10	9	2	171
Semi-manufactures (a)	2,501	1,668	2,567	3,641	3,963	5,626
of which—Foil ..	196	204	414	391	585	1,061
Aluminium sulphates ..	3,064	4,432	4,268	6,778	8,431	6,461
Pakistan—						
Unwrought (a) ..	9,414	1,551	12,416	4,625	5,853	n.a.
Semi-manufactures (a)	1,530	757	840	926	5,446	n.a.
Aluminium sulphates ..	1,440	6,556	1,205	1,430	3,762	1,041
Sarawak—						
Semi-manufactures (a)	54	73	91	153	130	95
Aluminium sulphates ..	79	72	82	149	192	195
Australia—						
Bauxite	45,147	69,473	66,746	96,200	51,799	69,904
Cryolite	1,475	1,597	858	1,123	1,141	n.a.
Alumina and hydrate (c)	630	746	356	384	692	259
Unwrought (a) ..	8,374	14,813	19,268	26,432	16,141	31,389
Scrap (a)	10	102	24	231	282	1,074
Semi-manufactures (a)	5,564	5,816	6,247	10,932	4,714	5,427
of which—Foil ..	2,193	2,409	2,788	3,909	2,002	2,101
Powder	531	486	670	678	396	250
New Zealand—						
Unwrought	387	820	801	666	2,086	5,024
Semi-manufactures (a)	3,053	4,385	3,991	5,076	4,078	2,548
of which—Foil ..	369	769	535	573	798	344
Irish Republic—						
Unwrought (a) ..	2,289	2,392	3,519	3,328	3,604	4,897
Semi-manufactures (a)	r 1,374	r 1,581	r 2,465	r 2,470	2,463	3,080
of which—Foil ..	r 567	636	636	460	416	495
Aluminium sulphates ..	3,368	3,966	3,619	3,479	3,524	3,588
OTHER COUNTRIES						
Austria—						
Bauxite	5,522	6,076	123	10,390	18,176	12,951
Cryolite	280	203	266	328	344	334
Alumina	104,430	99,207	131,001	115,281	155,118	135,829
do. hydrate	3,147	3,306	3,314	3,779	3,862	4,393
Unwrought (a) ..	194	258	389	274	138	804
Semi-manufactures (a)	134	414	1,261	1,537	1,467	1,886
Aluminium sulphates ..	90	118	1,583	1,614	1,652	1,658

(a) Including alloys.

(c) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

IMPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Belgium-Luxemburg—						
Bauxite	1,465	1,520	16,574	7,201	4,991	5,425
Alumina	262	463	263	587	1,150	1,022
do. hydrate ..	8,654	8,645	9,302	9,012	7,899	8,377
Unwrought ..	25,194	38,465	43,313	57,265	56,511	52,470
do. alloys ..	2,116	2,939	5,296	6,106	12,030	14,754
Scrap	2,363	2,446	1,294	1,355	1,972	1,775
Semi-manufactures (a)	5,638	5,868	7,827	9,699	12,843	16,071
of which—Foil ..	1,963	2,258	2,984	3,316	3,601	3,523
Powder	437	454	489	452	332	572
Aluminium sulphates ..	557	172	974	644	1,333	544
Denmark—						
Bauxite	703	576	205	400	600	500
Crude cryolite	(b) 33,000	(b) 28,000	28,977	33,372	32,769	32,188
Unwrought	3,665	4,252	6,299	6,026	5,113	6,070
do. alloys	156	45	93	1,259	979	481
Scrap	686	731	802	421	713	377
Semi-manufactures (a)	4,294	4,802	7,068	8,569	8,196	9,992
of which—Foil ..	576	1,071	1,547	2,076	2,149	2,209
Powder	94	58	85	123	120	150
Aluminium sulphates ..	3,318	3,993	4,082	5,034	4,118	4,721
Finland—						
Alumina	53	180	73	1,577	74	86
do. hydrate					7,699	10,232
Unwrought (a) ..	2,571	4,661	7,182	3,953	5,496	6,706
Semi-manufactures (a)	7,395	5,987	9,538	12,827	10,965	11,276
of which—Foil ..	609	419	548	416	750	558
Powder	371	229	392	458	310	146
Aluminium sulphates ..	20,823	21,961	21,486	30,270	14,995	12,973
France—						
Bauxite	23,166	38,625	44,251	59,687	118,821	100,230
Cryolite	1,341	2,540	1,437	1,934	2,178	1,402
Alumina	104	265	173	43,726	133,818	191,842
do. hydrate	25	22	35	28	33	81
Unwrought	8,687	28,654	32,805	53,287	41,834	49,820
Scrap (a)	306	96	31	179	513	1,307
Semi-manufactures (a)	2,498	2,234	2,001	3,155	4,051	7,641
of which—Foil ..	1,049	718	839	1,653	2,028	3,780
Powder	57	54	29	60	61	160
Aluminium sulphates ..	17	2	2	—	3	2
Germany (Federal)—						
Bauxite	1,236,567	1,055,234	897,596	1,322,085	1,538,597	1,369,442
Cryolite	1,807	1,586	1,378	2,155	2,265	3,315
Alumina	69	403	92	340	27,303	34,071
do. hydrate	3	51	25	662	1,179	942
Unwrought	38,562	58,620	74,097	163,191	124,725	105,058
do. alloys	1,429	8,005	14,547	14,959	11,800	11,068
Scrap	18,232	28,320	27,941	38,854	45,188	41,274
Semi-manufactures (a)	1,052	2,065	2,978	8,307	11,614	12,423
of which—Foil ..	107	135	351	438	732	1,918
Powder	33	508	259	202	307	341
Germany (East)—						
Bauxite	252,006	226,323	251,203	264,150	258,707	281,425
Alumina	41,852	18,141	14,674	25,508	22,795	16,732
Greece—						
Unwrought	1,295	1,829	2,497	4,335	5,380	5,868
Semi-manufactures (a)	426	540	553	679	644	978
of which—Foil ..	375	436	434	530	509	736
Aluminium sulphates ..	640	426	431	229	504	249
Hungary—						
Cryolite	1,717	1,969	2,314	2,426	2,948	3,156
Unwrought	10,970	1,890	2,578	492	—	568

(a) Including alloys.

(b) Estimated.

IMPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Iceland—						
Semi-manufactures ..	591	218	199	352	279	459
Italy—						
Bauxite	259,767	180,758	232,518	275,678	257,809	289,082
Cryolite	494	394	266	364	541	455
Alumina	90	148	780	389	681	4,444
do. hydrate .. .	510	83	137	343	405	447
Unwrought .. .	12,343	4,633	13,649	29,384	21,382	} 43,326
do. alloys .. .	4,668	962	2,130	4,143	3,919	
Scrap	10,244	8,512	14,732	36,361	29,470	46,698
Semi-manufactures (a)	1,509	2,012	3,101	6,159	6,564	10,256
of which—Foil ..	869	1,395	2,344	2,893	2,856	3,098
Powder .. .	56	8	23	119	128	131
Aluminium sulphates ..	246	243	483	511	154	963
Netherlands—						
Bauxite	5,891	7,938	7,701	3,493	4,839	1,674
Cryolite	222	120	170	211	206	268
Alumina	} 5,200	} 5,447	} 7,209	} 875	} 745	} 806
do. hydrate .. .						
Unwrought (a) .. .	8,312	8,933	14,026	14,449	13,518	14,526
Scrap (a)	570	989	1,322	2,265	2,795	2,044
Semi-manufactures (a)	10,449	10,633	13,660	17,632	17,545	17,475
of which—Foil ..	2,111	2,029	2,713	3,513	3,865	4,019
Powder .. .	102	127	138	122	179	127
Aluminium sulphates ..	11,064	12,290	11,269	9,691	9,113	8,664
Norway—						
Bauxite	28,104	36,083	35,439	28,115	29,502	37,797
Cryolite	4,196	6,099	3,310	4,041	2,763	1,862
Alumina	190,937	193,623	305,289	322,889	297,377	405,297
Unwrought .. .	127	1,557	32	354	1,952	782
do. alloys .. .	156	155	156	187	418	572
Semi-manufactures (a)	1,989	2,013	3,691	6,138	6,238	7,760
of which—Foil ..	144	139	211	232	254	443
Powder .. .	<i>n.a.</i>	<i>n.a.</i>	209	225	185	229
Aluminium sulphates ..	8,617	9,570	10,155	10,519	12,103	10,868
Poland—						
Bauxite	<i>n.a.</i>	18,100	23,800	34,900	59,200	(c) 41,000
Alumina	48,945	39,428	40,990	53,037	86,000	107,000
Unwrought .. .	4,684	6,426	9,939	13,633	5,873	<i>n.a.</i>
Portugal—						
Cryolite	33	15	28	27	17	22
Unwrought (a) .. .	718	554	379	577	1,877	1,433
Semi-manufactures (a)	2,697	3,046	3,323	3,914	3,685	3,638
of which—Powder ..	93	76	80	96	88	74
Aluminium sulphates ..	2,012	2,153	2,588	3,046	2,880	2,752
Spain—						
Bauxite	18,617	17,544	8,942	23,203	39,587	46,088
Alumina and hydrate ..	31,067	40,614	36,244	62,132	82,635	89,678
Unwrought and scrap ..	5,053	10,921	6,380	1,718	4,198	8,307
Semi-manufactures (a)	128	419	204	409	1,116	1,849
of which—Powder ..	11	15	11	6	14	21
Sweden—						
Bauxite	7,963	3,144	12,939	5,476	25,281	23,850
Cryolite	(b) 1,260	(b) 775	409	673	758	924
Alumina and hydrate ..	27,296	18,529	30,065	33,171	24,028	39,875
Unwrought .. .	15,768	20,634	18,315	21,846	19,754	25,580
do. alloys .. .	<i>n.a.</i>	<i>n.a.</i>	2,864	5,824	3,889	4,752
Scrap	93	5	44	85	176	309
Semi-manufactures (a)	6,719	6,759	11,085	15,245	13,127	13,893
of which—Foil .. .	767	1,050	2,337	2,598	2,237	2,105
Powder .. .	<i>n.a.</i>	<i>n.a.</i>	415	594	382	342
Aluminium sulphates ..	684	309	1,183	2,816	4,339	5,315

(a) Including alloys.

(b) Including artificial.

(c) Exports to Poland from Hungary.

IMPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Switzerland—						
Bauxite	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	951	2,677	1,348
Cryolite	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,012	1,043	1,217
Alumina	61,840	59,575	55,000	85,888	91,066	105,424
Unwrought and scrap (a)	10,209	7,019	16,399	16,142	10,336	10,937
Semi-manufactures (a)	251	1,515	3,483	4,955	6,946	7,622
Aluminium sulphates ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	3,927	4,152	4,166
U.S.S.R.—						
Bauxite (b)	398,400	443,000	447,200	422,000	447,800	303,400
Yugoslavia—						
Bauxite	—	—	200	973	1,891	2,681
Cryolite	907	951	758	420	344	749
Unwrought	1,582	—	5,784	15,536	10,082	10,522
Semi-manufactures (a)	247	254	262	326	563	581
of which—Foil	47	117	47	113	181	369
Algeria—						
Bauxite	2,953	1,575	2,315	2,165	<i>n.a.</i>	<i>n.a.</i>
Unwrought (a)	865	595	303	520	<i>n.a.</i>	<i>n.a.</i>
Semi-manufactures (a)	1,405	1,269	2,001	2,464	<i>n.a.</i>	<i>n.a.</i>
of which—Foil	876	582	974	1,366	<i>n.a.</i>	<i>n.a.</i>
Powder	104	40	174	120	<i>n.a.</i>	<i>n.a.</i>
Aluminium sulphates ..	810	815	745	887	<i>n.a.</i>	<i>n.a.</i>
Angola—						
Semi-manufactures	95	102	74	43	398	323
Aluminium sulphates ..	335	207	69	121	924	403
Cameroun—						
Alumina	—	70,576	80,039	73,618	102,753	83,344
Congo Republic—						
Cryolite	59	50	3	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Alumina and hydrate	197	148	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Semi-manufactures	1,833	1,761	1,633	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
of which—Foil	59	69	60	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Aluminium sulphates ..	669	1,612	1,459	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Egypt—						
Unwrought and scrap ..	216	647	1,463	439	1,216	<i>n.a.</i>
Semi-manufactures	1,025	1,427	1,466	2,121	1,522	<i>n.a.</i>
of which—Foil	475	462	637	726	467	<i>n.a.</i>
Aluminium sulphates ..	13,234	17,758	12,506	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Malagasy Republic—						
Aluminium sulphates	127	300	184	182	198	255
Morocco—						
Bauxite	—	—	—	2,436	—	3,185
Semi-manufactures (a)	719	1,174	1,021	1,853	1,634	1,691
of which—Foil	75	397	234	440	312	280
Powder	67	113	78	67	55	57
Aluminium sulphates ..	501	1,209	1,484	1,932	1,617	1,772
Mozambique—						
Semi-manufactures (a)	81	84	95	134	201	<i>n.a.</i>
South Africa—						
Unwrought	6,575	6,761	7,301	11,104	10,199	<i>n.a.</i>
Semi-manufactures (a)	1,508	1,606	1,234	2,649	1,754	<i>n.a.</i>
of which—Foil	249	111	74	490	527	<i>n.a.</i>
Powder	35	43	62	81	59	<i>n.a.</i>
Aluminium sulphates ..	3,977	3,367	3,496	3,163	3,618	<i>n.a.</i>
Sudan—						
Semi-manufactures (a)	136	297	208	483	185	460
Tunisia—						
Unwrought and scrap (a)	7	39	194	133	105	3
Aluminium sulphates ..	107	316	324	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Costa Rica—						
Semi-manufactures (a)	214	280	256	298	332	395

(a) Including alloys.

(b) Imports from Greece.

IMPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Cuba—						
Semi-manufactures (a)	2,462	2,189	1,887	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Aluminium sulphates ..	1,204	541	535	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Guatemala—						
Aluminium sulphates ..	1,052	999	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Mexico—						
Bauxite, calcined ..	2,167	3,695	3,534	5,892	8,808	7,247
Alumina and hydrate ..	5,152	3,517	4,125	6,274	3,609	3,820
Unwrought ..	8,690	12,208	9,381	11,026	10,152	15,663
Semi-manufactures ..	657	586	639	601	574	1,999
Aluminium sulphates ..	856	830	705	695	706	579
United States—						
Bauxite, crude dried ..	7,098,000	7,915,000	8,149,000	8,739,000	9,206,000	10,585,000
do. calcined ..	67,376	29,515	108,657	118,653	70,360	120,150
Cryolite ..	29,207	21,595	19,734	15,598	12,334	11,136
Alumina and hydrate ..	1,592	47,943	115,506	79,048	168,948	157,670
Unwrought (a) ..	198,355	227,966	214,264	138,131	177,879	274,572
Scrap ..	14,527	8,859	9,749	4,502	5,359	5,800
Semi-manufactures ..	19,043	27,426	49,248	37,060	48,448	57,364
of which—Foil (b) ..	1,564	2,474	4,044	4,312	4,421	4,518
Aluminium sulphates ..	2,908	3,289	5,083	4,855	4,396	5,077
Argentina—						
Bauxite ..	12,598	26,574	15,953	29,492	39,530	26,051
Ingots and bars ..	12,385	12,927	9,155	11,887	28,776	15,252
Brazil—						
Cryolite ..	645	944	685	1,053	1,018	590
Alumina ..	193	15	2,821	51	30	4,404
do. hydrate ..	178	671	604	862	714	808
Unwrought (a) ..	12,532	13,984	8,785	14,580	18,052	19,199
Semi-manufactures (a) ..	927	692	689	259	237	278
of which—Foil ..	96	116	10	25	29	76
Powder ..	151	100	19	42	24	27
Aluminium sulphates ..	11	46	1	—	50	2
Chile—						
Unwrought ..	779	1,205	881	1,762	1,386	<i>n.a.</i>
Bars, sheets and alloys ..	126	79	133	166	290	<i>n.a.</i>
Aluminium sulphates ..	22	1	74	8	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Bauxite ..	30	1,771	3,025	4,635	4,453	5,986
Alumina and hydrates ..	115	44	439	681	423	271
Unwrought (a) ..	1,175	2,210	2,952	2,965	3,318	5,575
Semi-manufactures (a) ..	2,438	1,437	1,255	1,543	1,214	1,109
Aluminium sulphates ..	7,591	4,788	398	170	514	1,214
Ecuador—						
Semi-manufactures ..	190	245	213	<i>n.a.</i>	<i>n.a.</i>	249
Aluminium sulphates ..	596	672	809	<i>n.a.</i>	371	1,185
Peru—						
Unwrought (a) ..	178	152	206	462	557	563
Semi-manufactures (a) ..	982	841	960	1,373	2,021	1,664
Aluminium sulphates ..	2,086	4,182	3,016	3,297	3,743	3,218
Uruguay—						
Unwrought ..	806	1,342	1,425	2,065	<i>n.a.</i>	<i>n.a.</i>
Aluminium sulphates ..	4,661	2,943	3,202	3,258	<i>n.a.</i>	<i>n.a.</i>
Venezuela—						
Unwrought ..	41	433	615	730	726	1,019
Aluminium sulphates ..	3,905	3,598	4,993	4,041	10,202	7,134
Burma—						
Unwrought ..	275	171	173	241	377	456
Semi-manufactures (a) ..	2,179	1,761	1,462	1,321	2,278	2,611

(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	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Formosa—						
Bauxite	41,277	40,636	32,051	24,416	56,273	56,282
Foil	168	3	2	7	9	7
Indonesia—						
Semi-manufactures (a)	2,820	3,018	3,519	2,734	5,908	n.a.
Aluminium sulphates ..	2,454	7,199	5,271	8,065	8,686	n.a.
Iran (b)—						
Unwrought (a) ..	248	763	784	1,531	n.a.	n.a.
Semi-manufactures ..	806	925	957	948	n.a.	n.a.
Iraq—						
Unwrought (a) ..	230	399	853	534	n.a.	n.a.
Semi-manufactures (a)	949	1,129	1,561	1,751	n.a.	n.a.
Aluminium sulphates ..	963	1,473	913	3,168	n.a.	n.a.
Israel—						
Unwrought and semi-						
manufactures	1,618	2,724	2,651	3,343	5,655	6,717
of which—Foil	218	95	10	17	22	50
Aluminium sulphates ..	617	617	571	3	n.a.	n.a.
Japan—						
Bauxite	484,951	509,054	816,669	1,077,343	1,138,283	1,081,336
Cryolite	1,703	492	1,578	3,076	5,202	3,736
Unwrought	8,994	400	14,589	22,604	31,877	17,128
do. alloys	606	69	708	193	191	361
Scrap	6,967	3,404	9,784	13,424	16,840	11,371
do. alloys	1,281	1,621	2,724	5,011	14,508	5,572
Semi-manufactures (a)	438	238	270	320	587	626
Korea (South)—						
Aluminium sulphate ..	n.a.	861	2,230	482	233	n.a.
Lebanon—						
Unwrought	359	182	220	385	850	n.a.
Semi-manufactures ..	265	160	234	572	588	n.a.
Philippine Republic—						
Unwrought	2,538	2,005	2,293	5,611	1,892	1,856
Semi-manufactures (a)					1,307	704
of which—Foil					157	292
Aluminium sulphates ..	4,142	4,112	5,919	3,192	n.a.	n.a.
Syria—						
Unwrought	127	243	79	n.a.	121	n.a.
Thailand—						
Unwrought (a)	277	78	219	327	562	1,170
Semi-manufactures (a)	2,032	1,738	2,104	2,725	2,736	2,987
of which—Foil	274	285	145	502	421	666
Aluminium sulphates ..	1,705	1,280	1,073	1,118	1,080	675
Turkey—						
Unwrought (a)	183	175	679	254	489	1,260
Semi-manufactures (a)	456	379	1,199	1,417	2,483	2,865
of which—Foil	224	174	336	818	752	1,193
Aluminium sulphates ..	1,899	1,396	2,484	2,197	2,330	3,207

(a) Including alloys.

(b) Years ending March 20 following that stated.

ANTIMONY
PRODUCTION OF ANTIMONY ORE
(Metal content)

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Southern Rhodesia .. r	56	101	77	75	51	46
Canada (a)	—	—	—	—	—	—
Australia (b)	485	692	628	154	117	66
OTHER COUNTRIES						
Austria	508	616	762	915	871	983
Czechoslovakia (h) ..	1,600	1,600	1,600	1,600	1,600	1,600
France	—	37	—	—	—	—
Italy	199	167	r 206	210	247	330
Portugal	10	6	6	—	—	—
Spain	200	200	157	217	170	157
U.S.S.R. (h)	5,000	6,000	6,000	6,000	6,000	6,000
Yugoslavia (c)	1,741	1,639	2,245	2,372	2,424	2,648
Algeria	1,378	1,184	1,480	791	643	133
Morocco	385	181	225	500	364	401
South Africa	9,840	7,122	12,087	12,106	10,539	10,425
Guatemala	13	(e) 42	(e) 87	(e) 106	30	39
Mexico	5,120	2,704	3,234	4,164	3,552	4,694
United States (d) ..	633	629	605	567	615	563
Argentina	7	10	—	—	—	—
Bolivia (j)	6,273	5,194	5,415	5,243	6,634	6,538
Peru (i)	821	861	708	804	777	513
Burma	18	7	152	94	67	30
China (f)	13,700	14,700	14,700	17,000	16,500	16,500
Japan	424	266	303	r 266	192	172
Thailand	2	—	10	—	38	44
Turkey	1,100	(g) 1,506	(g) 1,232	1,357	1,220	1,752
TOTAL*	50,000	45,000	52,000	55,000	53,000	54,000

*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): 1957—607; 1958—383; 1959—740; 1960—737; 1961—594; 1962—812.
- (b) In addition the antimony content of antimonial slag obtained as a by-product of lead refining was as follows (long tons): 1957—724; 1958—664; 1959—652; 1960—632; 1961—563; 1962—808.
- (c) Metal.
- (d) Secondary metal was recovered as follows (long tons): 1957—20,147; 1958—17,424; 1959—17,896; 1960—17,950; 1961—17,380; 1962—17,287.
- (e) Imports into the United States.
- (f) United States Bureau of Mines' estimate.
- (g) Exports.
- (h) Estimate. Source "Minerais et Métaux".
- (i) Metal plus content of ore.
- (j) Content of ore exported plus exports of metal.

EXPORTS OF ANTIMONY, ETC.

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Regulus and refined ..	1,968	824	719	1,600	1,171	827
Rhodesia & Nyasaland—						
Ore	211	137	257	272	222	179
Canada—						
Antimonial lead ..						
<i>(Sb content)</i>	301	281	499	501	534	706
Hong Kong—						
Ore	176	751	—	—	—	—
Australia (a)—						
Regulus	5	133	—	12	—	—
OTHER COUNTRIES						
Austria—						
Ore	810	937	878	1,029	1,780	1,118
Sulphide	<i>n.a.</i>	<i>n.a.</i>	100	288	110	244
Belgium-Luxemburg						
E.U.—						
Oxide	700	751	707	687	966	1,251
France—						
Ore	5	—	394	5	—	—
Crude and regulus ..	127	160	115	280	135	53
Germany (Federal)—						
Ore	—	—	1	53	—	—
Regulus, scrap, etc. ..	154	149	229	400	402	1,014
Oxide	386	272	368	289	91	136
Italy—						
Regulus and scrap ..	133	65	—	1	—	2
Netherlands—						
Regulus	58	15	40	(b) 54	(b) 34	(b) 69
Portugal—						
Ore	20	—	—	—	—	—
Sweden—						
Ore	52	53	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Regulus	3	14	5	22	7	10
U.S.S.R.—						
Regulus	1,600	1,100	2,300	2,500	3,400	3,800
Yugoslavia—						
Regulus	1,344	1,574	1,896	1,970	2,039	2,245
Algeria—						
Ore	4,890	5,468	5,272	3,552	2,360	559
Morocco—						
Ore	844	—	734	546	1,129	998
South Africa—						
Ore	12,381	14,519	19,447	20,451	16,292	18,059
Mexico—						
Ore and concentrates ..	12,721	5,625	6,441	9,098	9,343	11,226
Regulus and refined ..	469	313	586	538	128	270
United States—						
Ore	57	42	147	756	6	8
Metal and alloys ..	3	35	8	53	30	31
Bolivia—						
Ore (<i>Sb content</i>) ..	6,249	5,159	5,412	5,238	6,602	} 6,538
Regulus	24	35	3	5	32	
Peru—						
Ore and metal (<i>Sb content</i>) ..	745	571	734	948	901	864
Japan—						
Regulus	9	3	2	—	3	<i>n.a.</i>
Sulphide	64	18	18	6	14	<i>n.a.</i>

(a) Years ended June 30 of that stated.

(b) Including scrap.

EXPORTS OF ANTIMONY, ETC. (cont.)

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES (cont.)						
Thailand—						
Ore	32	—	—	—	52	72
Turkey—						
Ore	2,834	2,509	2,056	2,241	2,475	2,707

IMPORTS OF ANTIMONY, ETC.

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore and concentrates (b)	11,237	11,274	11,063	15,623	11,733	12,085
Rhodesia & Nyasaland—						
Refined and regulus ..	98	27	47	50	183	60
Canada—						
Regulus	801	361	523	377	372	570
Oxide	163	144	228	195	160	280
Hong Kong—						
Ore	106	897	—	—	—	—
India—						
Ore	342	935	1,579	(d) 1,172	(d) 1,268	(d) 1,261
Metal	21	34	81	(d) 17	(d) 1	(d) —
Oxide	100	43	73	(d) 90	(d) 96	(d) 54
Sulphide	353	3	10	(d) 4	(d) 1	(d) 2
Australia (c)—						
Concentrates	530	103	36	105	271	34
Regulus	n.a.	n.a.	n.a.	n.a.	238	156
New Zealand—						
Refined and regulus ..	96	172	90	82	152	n.a.
Oxide	(a) 14	30	28	14	21	n.a.
OTHER COUNTRIES						
Austria—						
Regulus	103	153	141	206	151	128
Belgium-Luxemburg						
E.U.—						
Regulus	107	146	187	(e) 272	(e) 202	(e) 353
Oxide	80	89	124	176	138	143
Denmark—						
Regulus	274	324	400	228	313	379
France—						
Ore	5,053	8,752	5,490	6,120	4,303	2,957
Crude and regulus (e) ..	111	1	156	465	896	2,141
Sulphide	2	2	1	2	—	12
Germany (Federal)—						
Ore	1,419	1,305	2,142	2,027	2,175	1,623
Regulus, scrap, etc. ..	2,407	1,938	2,976	4,262	3,535	3,545
Oxide	124	159	218	211	211	246
Greece—						
Regulus	68	73	64	124	39	53
Italy—						
Ore	102	352	157	965	1,002	n.a.
Regulus and scrap ..	173	248	250	497	376	387
Oxide	191	192	127	345	248	—
Sulphide	14	15	14	11	n.a.	n.a.
Netherlands—						
Regulus	218	236	393	(e) 417	(e) 437	(e) 336
Oxide	503	461	592	777	501	564
Norway—						
Regulus	86	49	72	64	109	115
Poland—						
Regulus	n.a.	1,673	1,256	1,280	2,414	n.a.
Portugal—						
Crude and alloys ..	47	55	57	n.a.	n.a.	n.a.
Oxide	4	1	9	n.a.	n.a.	n.a.
Sulphide	1	—	1	2	1	n.a.

(a) Excess of re-exports.

(d) Years ended March 31 following that stated.

(b) Including crude.

(e) Including scrap.

(c) Years ended June 30 of that stated.

IMPORTS OF ANTIMONY, ETC. (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Sweden—						
Ore	113	31	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Regulus	119	224	258	373	340	386
Switzerland—						
Regulus	145	342	132	<i>n.a.</i>	<i>n.a.</i>	537
U.S.S.R.—						
Regulus	100	3,400	—	—	—	—
Algeria—						
Regulus	13	11	12	12	<i>n.a.</i>	<i>n.a.</i>
Morocco—						
Regulus	16	20	15	25	22	30
South Africa—						
Refined and regulus ..	325	152	90	113	156	<i>n.a.</i>
Mexico—						
Oxide	23	19	10	25	24	21
United States—						
Ore (<i>Sb content</i>) ..	7,320	3,060	5,773	5,764	5,994	7,681
Crude	34	122	158	21	11	15
Regulus	4,832	3,823	3,948	4,885	4,386	4,214
Oxide	1,691	1,459	1,835	2,114	1,786	2,598
Argentina—						
Ore	669	1,369	652	296	611	553
Brazil—						
Regulus	295	167	227	45	108	631
Oxide	46	27	39	42	33	62
Sulphide	124	92	116	186	101	93
Chile—						
Regulus	51	15	44	99	<i>n.a.</i>	<i>n.a.</i>
Peru—						
Sulphides	1	—	—	1	—	1
Uruguay—						
Regulus	39	13	32	21	<i>n.a.</i>	<i>n.a.</i>
Venezuela—						
Regulus	7	17	35	16	8	6
Indonesia—						
Regulus	84	79	156	77	164	<i>n.a.</i>
Israel—						
Regulus	56	42	25	35	—	<i>n.a.</i>
Japan—						
Ore and concentrates ..	3,064	2,278	4,934	5,283	6,369	4,947
Regulus	1	6	83	9	—	—
Sulphide	4	181	—	—	91	149

ARSENIC
PRODUCTION OF ARSENIC

Long tons

Producing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Southern Rhodesia—						
White arsenic	788	610	471	182	—	1,078
Canada—						
White arsenic (a) ..	1,651	1,037	705	770	187	83
OTHER COUNTRIES						
Belgium (b)—						
White arsenic	2,035	485	2,823	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
France—						
White arsenic	6,810	7,459	7,894	8,400	9,300	6,676
Germany (Federal) (b)—						
White arsenic, etc. ..	193	183	161	98	137	67
Greece—						
White arsenic	10	12	10	(c) 10	(c) 3	(c) 3
Italy—						
Mispickel (<i>As content</i>) ..	743	499	411	515	583	336
White arsenic	828	614	1,119	584	874	125
Portugal—						
Arsenic oxide (d) ..	1,336	969	599	723	295	566
Spain—						
Arsenic oxide (e) ..	230	189	286	412	316	<i>n.a.</i>
Sweden—						
White arsenic	9,940	9,119	11,000	11,564	10,851	5,662
Mexico—						
Ores (<i>As₂O₃ content</i>) ..	4,532	3,047	10,300	11,939	12,087	10,728
United States—						
White arsenic	9,369	10,275	4,633	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Brazil—						
White arsenic	168	261	328	208	57	(c) 98
Peru—						
White arsenic	19	329	468	387	346	(c) 348
Japan—						
White arsenic	1,358	1,276	1,058	1,113	935	903

Arsenic has also been produced in the United Kingdom, Austria, Czechoslovakia, East Germany, Hungary, U.S.S.R., 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.

(d) Content of pyrites mined 1957—1959. Actual production 1960 onwards.

(e) Content of ore.

EXPORTS OF ARSENIC, ETC.

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
White arsenic and other compounds of arsenic	3,727	3,123	2,546	5,996	6,774	8,166
Canada—						
White arsenic, etc. (a)	1,442	760	505	471	109	—
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Sulphide	72	128	49	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
White arsenic	2,035	485	2,823	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Arsenates and arsenites	146	7	33	225	312	313
France—						
White arsenic	4,210	5,660	8,444	7,778	10,799	9,690
Arsenates	162	115	71	131	161	117
Germany (Federal)—						
White arsenic, etc.	193	183	161	98	137	67
Arsenates	346	376	782	386	182	194
Italy—						
White arsenic	5	9	3	50	2	20
Netherlands—						
Arsenates and arsenites	65	—	15	18	9	21
Poland—						
Metallic arsenic	<i>n.a.</i>	36	19	51	38	<i>n.a.</i>
Portugal—						
White arsenic	1,173	1,046	383	34	77	1,075
Sweden—						
White arsenic	8,683	14,939	11,417	13,494	10,229	7,719
Metallic arsenic	<i>n.a.</i>	<i>n.a.</i>	92	244	182	226
Mexico—						
White arsenic, pure	3,056	1,689	5,346	6,454	6,072	6,376
do. crude	1,856	793	6,338	2,955	7,060	1,962
United States—						
Arsenate of lead	543	937	625	843	415	635
Arsenate of lime	1,241	569	55	129	299	421
Japan—						
White arsenic	45	53	10	16	12	15
Turkey—						
Ore	—	—	3	—	—	—

(a) Including arsenic contained in gold ores exported.

IMPORTS OF ARSENIC, ETC.

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
White arsenic	3,293	6,873	4,602	9,815	8,587	6,570
Canada—						
Sulphide and white arsenic	1	—	—	—	—	—
Arsenate of lead	33	58	38	29	26	19
Arsenate of lime	36	38	39	30	80	84
India—						
Arsenic and its oxides ..	483	90	297	(b) 406	(b) 602	(b) 384
Pakistan—						
Arsenic and its oxides ..	5	14	5	60	44	32
Australia (a)—						
White arsenic	1,778	1,877	2,595	2,618	2,183	1,695
Arsenate of lead	4	1	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
New Zealand—						
White arsenic, etc.	128	165	71	71	9	141
Arsenate of lead	25	30	18	9	11	31
OTHER COUNTRIES						
Austria—						
White arsenic, etc.	<i>n.a.</i>	<i>n.a.</i>	38	30	32	32
Belgium-Luxemburg E.U.—						
White arsenic	252	273	108	73	3	5
Denmark—						
Arsenate of lead	1	1	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
France—						
Sulphide	—	3	8	4	8	—
Metallic arsenic	20	17	9	9	21	15
White arsenic	12	16	8	30	30	79
Germany (Federal)—						
Metallic arsenic	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	23	27
White arsenic, etc.	1,830	2,645	3,358	4,248	2,789	2,194
Sulphide	15	19	10	9	8	1
Italy—						
White arsenic	253	288	211	418	449	1,134
Metallic arsenic	—	2	6	8	16	10
Netherlands—						
White arsenic	668	677	543	529	638	608
Arsenates and arsenites	55	28	23	85	32	15
Norway—						
White arsenic	<i>n.a.</i>	<i>n.a.</i>	50	63	51	47
Portugal—						
Metallic arsenic	1	1	1	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
White arsenic	4	16	12	9	8	5
Arsenate of soda	—	3	5	—	—	<i>n.a.</i>
Switzerland—						
White arsenic, etc.	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	149	245	99
Yugoslavia—						
Metallic arsenic	<i>n.a.</i>	8	3	5	3	—
Algeria—						
White arsenic	10	3	22	11	<i>n.a.</i>	<i>n.a.</i>
Sulphide	—	1	1	2	<i>n.a.</i>	<i>n.a.</i>
Arsenates	30	41	17	17	<i>n.a.</i>	<i>n.a.</i>
Congo Republic—						
White arsenic	2	—	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Arsenates and arsenites	154	142	139	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Malagasy Republic—						
Arsenates	8	12	9	12	16	9

(a) Years ended June 30 of that stated.

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

IMPORTS OF ARSENIC, ETC. (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Tunisia—						
Arsenates and arsenites	1	—	1	—	1	2
Mexico—						
White arsenic	101	48	95	6	100	1
United States—						
Metallic arsenic	61	28	38	65	59	102
White arsenic	9,049	8,504	17,309	11,450	17,396	14,069
Sulphide	19	56	19	14	25	30
Arsenates of lime and soda	(a) 146	(a) 77	(a) 68	96	(a) 94	(a) 114
Argentina—						
White arsenic	1,422	894	768	423	720	780
Brazil—						
White arsenic	778	730	701	846	675	784
Arsenates	4	10	30	30	28	—
Chile—						
White arsenic	21	22	74	19	<i>n.a.</i>	<i>n.a.</i>
Arsenates	40	6	33	71	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
White arsenic	39	5	44	104	34	70
Uruguay—						
White arsenic	46	172	299	296	<i>n.a.</i>	<i>n.a.</i>
Arsenate of lead	174	8	9	66	<i>n.a.</i>	<i>n.a.</i>
Formosa—						
White arsenic	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	87	88	<i>n.a.</i>
Japan—						
White arsenic	—	—	1,524	1,124	2,445	1,500
Sulphide	19	21	38	25	23	34
Turkey—						
Arsenic compounds	27	—	32	50	74	15

(a) Arsenate of soda only.

ASBESTOS
PRODUCTION OF ASBESTOS

Long tons

Producing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Bechuanaland Protectorate	1,412	2,014	1,259	1,145	1,718	2,156
Kenya—						
Anthophyllite	97	107	39	104	135	189
Southern Rhodesia	117,968	113,496	106,874	119,611	144,295	126,961
Swaziland	27,435	22,554	22,149	28,595	27,493	29,311
Canada (a)—						
Chrysotile	934,005	826,188	937,883	998,621	1,047,942	1,092,419
Crude	555	540	386	295	146	n.a.
Fibre	360,729	305,859	360,731	431,413	489,491	n.a.
Shorts and Waste	572,721	519,789	576,766	566,913	558,305	n.a.
Cyprus	13,418	14,727	12,878	r 20,818	14,471	19,992
India	1,718	1,162	1,344	1,684	1,450	1,523
Australia—						
Chrysotile	1,993	2,013	1,279	1,019	865	804
Crocidolite	11,105	11,887	14,680	12,921	14,087	15,617
New Zealand	206	405	572	284	333	408
Total	1,109,000	995,000	1,099,000	r 1,185,000	1,253,000	1,289,000
OTHER COUNTRIES						
Austria	—	—	—	r 59	504	449
Bulgaria (c)	1,000	1,000	1,000	1,100	1,100	1,000
Finland	9,803	7,082	8,553	9,405	9,231	9,704
France	14,293	r 18,520	r 20,857	r 25,178	27,451	25,000
Greece	8	—	—	—	—	—
Italy	35,547	37,946	46,670	50,313	55,760	54,673
Portugal	57	88	35	129	19	—
Spain	—	—	17	4	10	—
U.S.S.R. (c)	450,000	490,000	540,000	590,000	790,000	980,000
Yugoslavia	5,471	5,322	4,239	5,330	5,990	6,608
Egypt	20	433	448	443	227	(c) 220
Eritrea	49	25	(c) 27	n.a.	n.a.	n.a.
Morocco	118	—	—	—	—	—
Mozambique	136	177	66	20	145	331
South Africa—						
Amosite	50,713	62,297	64,036	61,277	61,816	66,860
Blue	66,831	69,812	72,444	69,421	83,750	103,866
Chrysotile	22,898	24,467	26,184	26,313	28,327	26,779
Tremolite	159	248	198	12	66	86
United States (d)	38,976	39,267	40,588	40,378	47,155	47,491
Argentina	284	r 255	286	(c) 290	(c) 290	(c) 290
Bolivia (b)	109	—	149	167	103	n.a.
Brazil	2,370	3,407	11,004	13,027	(c) 16,700	(c) 16,740
Venezuela	7,490	8,173	4,547	3,870	581	—
China (c)	29,000	r 58,000	r 80,000	r 80,000	80,000	80,000
Formosa	239	42	134	433	39	468
Iran (e)	(c) 150	13	—	—	n.a.	n.a.
Japan—						
Chrysotile	11,173	9,989	12,173	15,216	16,785	13,884
Amphibole	606	—	—	—	—	—
Korea (South)	86	20	79	621	304	1,190
Philippine Republic	—	—	50	32	74	926
Turkey	89	749	367	213	443	633
Total*	700,000	800,000	900,000	1,000,000	1,200,000	1,400,000
WORLD'S TOTAL*	1,800,000	1,800,000	2,000,000	2,200,000	2,500,000	2,700,000

*Excluding asbestos known to have been produced in Czechoslovakia, Roumania and North Korea.

(a) Sales and shipments.

(b) Exports.

(c) United States Bureau of Mines' estimate.

(d) Sold or used by producers.

(e) Years ended March 20 following that stated.

EXPORTS OF ASBESTOS

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Unmanufactured ..	5,959	5,199	6,178	7,749	7,014	7,060
Packing, etc. ..	13,760	13,436	11,522	12,654	11,741	10,608
Cement products ..	105,947	69,858	63,384	59,634	52,979	39,448
Yarn and cloth ..	2,833	2,708	2,564	3,131	3,369	3,062
Other manufactures ..	13,044	12,574	12,767	13,624	17,348	16,013
Kenya—						
Unmanufactured ..	5	65	9	29	31	18
Rhodesia & Nyasaland—						
Unmanufactured ..	95,953	84,804	92,199	114,221	119,211	129,834
Cement products ..	(£1,989)	(£4,875)	(£2,023)	(£1,599)	(£1,153)	(£1,568)
Canada—						
Crude	570	431	371	215	157	162
Fibre	351,171	284,179	358,556	408,976	470,825	475,018
Shorts and waste ..	568,403	489,167	546,360	544,821	526,232	564,704
Manufactured ..	(£701,529)	(£284,603)	(£263,977)	(£366,963)	(£345,378)	(£391,752)
Cyprus—						
Unmanufactured ..	11,886	13,118	14,403	15,328	15,805	13,879
India—						
Unmanufactured ..	71	139	32	26	34	12
Manufactured ..	558	50	159	(a) 599	(a) 614	(a) 766
Malaya—						
Cement products ..	9,418	8,241	5,831	5,933	7,116	2,918
Other manufactures ..	30	108	69	24	78	86
Hong Kong—						
Unmanufactured ..	5	550	—	—	—	—
Manufactured ..	(£37,879)	(£13,711)	60	95	57	30
Cement products ..	n.a.	n.a.	341	310	331	254
Australia—						
Unmanufactured ..	10,115	9,315	11,584	7,410	7,196	8,695
Packing (b) ..	(£31,498)	(£7,941)	(£111,546)	(£30,690)	(£13,538)	(£43,083)
New Zealand—						
Cement products	(£N.Z.) (£6,560)	(£3,635)	(£4,314)	(£5,690)	(£6,999)	(£2,959)
OTHER COUNTRIES						
Austria—						
Unmanufactured ..	—	3	28	62	337	229
Manufactured ..	137	490	(c) 1,187	(c) 1,567	(c) 1,717	(c) 1,455
Cement products ..	7,360	5,332	(d) 4,735	(d) 5,541	(d) 6,082	(d) 7,693
Belgium-Luxemburg						
E.U.—						
Unmanufactured ..	252	778	617	292	604	119
Manufactured ..	776	609	612	(c) 995	(c) 2,821	(c) 2,849
Cement products ..	122,594	113,603	161,556	(d) 220,922	(d) 218,089	(d) 214,822
Denmark—						
Unmanufactured ..	160	103	62	26	30	93
Manufactured ..	242	272	(c) 387	(c) 510	(c) 520	(c) 759
Cement products ..	4,963	6,555	(d) 4,387	(d) 5,019	(d) 6,329	(d) 7,229
Finland—						
Unmanufactured ..	6,992	5,985	5,273	5,463	5,580	5,635
Manufactured ..	391	342	443	577	647	719
France—						
Unmanufactured ..	3,630	3,005	6,169	10,619	11,210	9,905
Manufactured (c) ..	1,147	1,552	2,481	4,638	4,971	3,970
Cement products (d) ..	30,180	43,336	42,735	64,625	47,221	52,822

(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.

EXPORTS OF ASBESTOS (cont.)

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
(cont.)						
Germany (Federal)—						
Unmanufactured ..	271	108	218	222	913	364
Manufactured (a) ..	2,662	2,459	3,132	3,576	3,943	3,683
Cement products (b) ..	16,642	12,625	15,372	22,571	22,365	22,261
Italy—						
Unmanufactured ..	4,726	6,144	9,436	7,062	9,061	7,765
Manufactured (a) ..	356	439	659	915	1,061	907
Cement products (b) ..	34,407	25,810	33,261	50,253	52,706	60,586
Netherlands—						
Unmanufactured ..	25	16	34	35	259	57
Manufactured ..	1,095	1,193	1,535	(a) 1,824	(a) 8,386	(a) 2,300
Cement products ..	4,189	4,651	4,695	(b) 20,567	(b) 10,089	(b) 6,644
Portugal—						
Unmanufactured ..	31	40	56	34	31	92
Spain—						
Manufactured ..	101	120	116	(a)(b) 158	(a)(b) 456	(a)(b) 393
Sweden—						
Unmanufactured ..	1	4	2	28	51	12
Manufactured ..	55	57	(a) 61	(a) 122	(a) 103	(a) 113
Cement products ..	n.a.	n.a.	6,723	13,507	18,081	15,346
Switzerland—						
Manufactured (a) ..	n.a.	n.a.	n.a.	430	452	520
Cement products (b) ..	n.a.	n.a.	n.a.	6,652	2,351	2,319
U.S.S.R.—						
Unmanufactured ..	101,800	115,600	126,600	143,800	156,100	166,400
Yugoslavia—						
Unmanufactured ..	4,536	5,016	6,030	5,134	4,226	5,296
Algeria—						
Cement products (b) ..	3,381	2,191	2,705	1,410	n.a.	n.a.
Egypt—						
Unmanufactured ..	—	22	4	—	30	n.a.
Morocco—						
Unmanufactured ..	49	32	—	—	—	—
Cement products ..	4,230	5,168	5,888	7,348	10,389	11,261
Mozambique—						
Unmanufactured ..	369	322	66	79	157	n.a.
South Africa—						
Unmanufactured (c) ..	148,660	142,519	150,456	190,627	167,192	182,715
Cements products ..	(£107,814)	(£76,813)	(£128,006)	(£296,577)	(£207,215)	(£286,208)
Other manufactures ..	r (£11,945)	r (£9,660)	r (£10,198)	r (£37,531)	(£26,050)	(£12,340)
United States—						
Unmanufactured ..	2,477	2,622	3,855	4,876	3,189	2,521
Spun, woven and packing ..	1,293	1,041	1,039	1,181	1,149	1,298
Brake linings ..	(£1,834,241)	(£1,641,444)	(£1,663,341)	(£1,597,200)	(£1,497,467)	(£1,653,325)
Clutch facings ..	(£374,277)	(£388,483)	(£405,393)	(£409,169)	(£410,464)	(£555,751)
Pipe covering and cement ..	3,145	2,727	2,156	3,115	2,345	2,580
Other manufactures ..	15,615	12,465	9,849	8,894	10,090	8,093
Bolivia—						
Unmanufactured ..	109	—	149	167	103	n.a.
Colombia—						
Cement products ..	882	177	168	256	363	553
Peru—						
Manufactured ..	12	22	144	48	11	116
Venezuela—						
Unmanufactured ..	5,995	6,826	4,272	3,603	375	—

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

(b) Including manufactures of other fibro-cements.

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

EXPORTS OF ASBESTOS (cont.)

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Japan—						
Unmanufactured ..	30	16	53	36	15	24
Manufactured ..	632	579	898	1,076	1,663	2,160
Cement products ..	1,061	529	896	1,155	462	371
Lebanon—						
Cement products ..	3,754	6,324	9,997	10,364	10,432	<i>n.a.</i>
Thailand—						
Cement products ..	<i>n.a.</i>	79	815	1,423	1,197	1,013
Turkey—						
Unmanufactured ..	5	5	—	5	—	—

IMPORTS OF ASBESTOS

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Unmanufactured—						
Crude and fibre ..	112,341	109,765	121,531	158,315	154,942	133,656
Waste	24,638	21,566	11,887	9,870	11,582	11,261
Cement products ..	8,640	8,595	9,545	14,722	16,651	17,010
Other manufactures ..	863	1,028	932	2,541	4,780	3,970
Channel Islands—						
Manufactured	798	1,109	953	1,200	2,074	1,593
Malta—						
Manufactured	(£4,941)	(£5,806)	(£6,966)	(£20,612)	(£30,034)	(£29,433)
Gambia—						
Cement sheets and pipes	482	727	321	11	28	294
Ghana—						
Cement sheets, pipes etc.	14,240	11,958	18,814	20,804	21,584	15,285
Kenya—						
Manufactured	5,103	3,130	4,461	5,260	2,187	1,376
Mauritius—						
Manufactured	631	721	1,270	625	642	1,856
Nigeria—						
Cement sheets and pipes	20,373	r 18,295	r 25,076	r 28,866	30,290	18,844
Rhodesia & Nyasaland—						
Cement products ..	(£170,799)	(£65,722)	(£83,487)	(£66,013)	(£51,793)	(£89,005)
Sierra Leone—						
Cement sheets and pipes	1,507	309	426	1,154	1,199	621
Tanganyika—						
Manufactured	1,526	1,226	698	1,560	1,304	967
Uganda—						
Unmanufactured ..	187	639	397	817	733	652
Manufactured	1,296	1,366	1,346	506	441	407
Zanzibar—						
Manufactured	397	205	257	r 147	318	145
Canada—						
Packing	164	135	172	201	291	194
Other manufactures ..	(£1,799,192)	(£1,436,101)	(£1,397,962)	(£1,499,746)	(£1,494,336)	(£1,389,038)
Barbados—						
Manufactured	58	17	11	21	12	27
Bermuda—						
Sheets, etc.	(£9,550)	(£6,221)	(£14,757)	(£6,345)	(£17,561)	(£14,542)
Grenada—						
Manufactured	(£415)	(£440)	(£85)	(£86)	7	n.a.
Jamaica—						
Unmanufactured ..	45	24	38	34	28	21
Manufactured	751	473	424	854	93	174
Cement products	996	383	548	334	2,405	2,467
St. Vincent—						
Cement products ..	22	1	12	33	42	18
Trinidad and Tobago—						
Cement products ..	1,103	485	607	469	394	230
Other manufactures ..	442	417	1,084	305	619	602
British Guiana—						
Cement products ..	872	636	2,409	2,671	860	n.a.
Other manufactures ..	187	727	73	199	907	n.a.
Ceylon—						
Unmanufactured ..	418	974	789	—	318	—
Cement sheets, etc. ..	11,745	7,375	6,605	6,036	72	2,223
Other manufactures ..	34	49	33	377	410	30
Cyprus—						
Sheets and pipes ..	2,632	1,537	2,044	1,805	3,207	4,009
Other manufactures ..	(£17,019)	(£14,665)	(£28,769)	(£29,168)	(£37,075)	(£29,204)
Hong Kong—						
Unmanufactured ..	51	562	5	22	28	16
Manufactured	(£121,179)	(£79,396)	234	373	465	305
Cement products ..	n.a.	n.a.	24,656	29,457	34,697	27,419

IMPORTS OF ASBESTOS (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES (cont.)						
India—						
Unmanufactured ..	16,032	18,065	22,387	21,619	19,178	22,023
Manufactured ..	1,953	842	2,874	(b) 1,288	(b) 2,276	(b) 921
Cement products ..	8,034	2,622	2,703	(b) 1,178	(b) 1,826	(b) 1,589
Malaya—						
Unmanufactured ..	2,763	1,903	2,240	2,823	5,321	5,711
Cement products ..	18,894	19,336	20,339	20,630	25,362	22,384
Other manufactures ..	431	460	366	483	664	736
North Borneo—						
Manufactured ..	4	56	5	14	10	33
Pakistan—						
Cement sheets ..	1,434	493	499	102	397	1,656
Sarawak—						
Cement sheets ..	947	652	505	492	1,072	1,198
Other manufactures ..	14	11	46	17	134	43
Australia—						
Unmanufactured ..	30,257	34,721	34,223	36,609	32,947	34,915
Packing, etc. (a) ..	(£388,630)	(£581,006)	(£449,316)	(£447,615)	(£555,484)	(£412,965)
New Zealand—						
Unmanufactured ..	1,276	3,915	4,200	4,512	5,188	5,830
Manufactured (£N.Z.)	(£189,805)	r(£270,165)	r(£192,237)	(£184,637)	(£256,376)	(£191,024)
Cement products (£N.Z.)	(£355,381)	(£209,254)	r(£62,139)	(£42,424)	(£104,153)	(£118,568)
Irish Republic—						
Unmanufactured ..	1,424	1,593	2,047	2,843	1,983	2,894
Manufactured ..	1,700	2,653	2,652	2,465	4,007	2,676
OTHER COUNTRIES						
Austria—						
Unmanufactured ..	10,248	10,994	10,185	12,565	20,611	15,766
Manufactured ..	180	205	(c) 246	(c) 331	(c) 266	(c) 249
Cement products ..	372	264	(d) 105	(d) 907	(d) 3,140	(d) 3,919
Belgium-Luxemburg						
E.U.—						
Unmanufactured ..	38,800	32,162	45,593	53,135	55,305	54,627
Manufactured ..	2,247	3,720	3,450	(c) 4,301	(c) 2,924	(c) 2,950
Cement products ..	808	796	996	(d) 1,447	(d) 2,278	(d) 7,415
Czechoslovakia—						
Unmanufactured ..	22,105	17,360	23,613	26,560	31,935	27,860
Denmark—						
Unmanufactured ..	16,501	10,409	16,564	17,164	19,265	20,781
Manufactured ..	983	958	(c) 1,434	(c) 1,529	(c) 1,882	(c) 1,908
Cement products ..	254	146	(d) 7,595	(d) 11,639	(d) 20,927	(d) 6,856
Finland—						
Unmanufactured ..	2,536	3,158	2,556	4,376	6,175	6,758
Manufactured ..	300	375	376	446	711	740
France—						
Unmanufactured ..	66,497	66,366	60,579	67,505	76,785	95,881
Manufactured (c) ..	1,413	1,406	2,362	1,589	1,841	1,904
Cement products (d) ..	1,386	752	753	866	8,391	7,302
Germany (Federal)—						
Unmanufactured ..	91,862	79,884	100,630	130,532	121,332	126,123
Manufactured (c) ..	1,587	2,187	2,286	4,484	4,447	5,426
Cement products (d) ..	22,322	39,887	47,259	132,622	73,246	88,023
Greece—						
Unmanufactured ..	—	—	—	47	2,031	3,333
Manufactured ..	193	178	179	(c) 385	(c) 475	(c) 546

(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.

IMPORTS OF ASBESTOS (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Hungary—						
Unmanufactured ..	4,482	7,292	6,825	9,649	10,509	10,852
Iceland—						
Unmanufactured ..	59	55	38	36	28	24
Manufactured ..	28	31	58	35	22	29
Italy—						
Unmanufactured ..	30,168	19,357	14,307	29,138	43,139	40,199
Manufactured (a) ..	1,823	1,996	2,474	4,041	3,294	3,700
Cement products (b) ..	334	290	300	588	3,149	11,407
Netherlands—						
Unmanufactured ..	20,783	12,478	17,433	21,381	19,413	16,700
Manufactured ..	2,578	2,378	2,453	(a) 3,358	(a) 3,718	(a) 2,979
Cement products ..	53,139	45,704	62,715	(b) 78,103	(b) 88,500	(b) 71,360
Norway—						
Unmanufactured ..	4,672	4,327	5,422	6,808	5,981	5,148
Manufactured ..	987	1,024	(a) 2,630	(a) 3,547	(a) 2,998	(a) 1,722
Cement products ..	7,815	8,506	(b) 5,929	(b) 7,932	(b) 9,041	(b) 9,841
Poland—						
Unmanufactured ..	<i>n.a.</i>	9,178	11,434	15,003	19,609	<i>n.a.</i>
Portugal—						
Unmanufactured ..	3,275	1,603	1,743	2,309	2,561	2,676
Manufactured ..	136	79	62	(a) 272	(a) 425	(a) 391
Spain—						
Unmanufactured ..	17,562	10,284	16,367	14,224	22,935	27,412
Manufactured ..	560	83	102	(a)(b) 189	(a)(b) 540	(a)(b) 752
Sweden—						
Unmanufactured ..	14,484	13,122	16,179	16,836	16,749	18,555
Manufactured ..	2,102	2,250	(a) 3,500	(a) 3,839	(a) 3,671	(a) 3,949
Cement products ..	<i>n.a.</i>	<i>n.a.</i>	14,333	16,786	16,100	17,902
Switzerland—						
Unmanufactured ..				8,557	9,134	11,931
Manufactured (a) ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,703	2,134	2,488
Cement products (b) ..				289	1,308	7,691
Yugoslavia—						
Unmanufactured ..	3,819	4,619	4,407	8,589	7,601	9,181
Manufactured ..	323	384	647	659	731	691
Cement products ..	220	117	—	1	39	49
Algeria—						
Unmanufactured ..	4,396	2,554	3,757	6,091	<i>n.a.</i>	<i>n.a.</i>
Manufactured (a) ..	178	306	362	745	<i>n.a.</i>	<i>n.a.</i>
Cement products (b) ..	6,583	13,864	14,261	9,365	<i>n.a.</i>	<i>n.a.</i>
Angola—						
Unmanufactured ..	1,242	724	479	806	702	491
Manufactured ..	14	20	15	15	(a) 57	(a) 85
Congo Republic—						
Unmanufactured ..	2,855	1,938	1,028	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Manufactured (a) ..	185	126	112	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Cement products (b) ..	3,347	2,061	914	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Egypt—						
Unmanufactured ..	3,598	4,523	3,527	6,479	4,805	<i>n.a.</i>
Manufactured ..	494	762	999	963	791	<i>n.a.</i>
Libya—						
Manufactured ..	<i>n.a.</i>	900	1,652	613	1,337	838
Malagasy Republic—						
Manufactured (a) ..	121	81	125	110	88	99
Cement products ..	945	2,707	943	558	1,484	1,949
Morocco—						
Unmanufactured ..	1,056	1,670	1,016	2,634	2,077	2,178
Manufactured (a) ..	65	131	141	146	178	138
Cement products ..	560	255	203	234	109	83

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

(b) Including manufactures of other fibro-cements.

IMPORTS OF ASBESTOS (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Mozambique—						
Unmanufactured ..	805	1,264	446	709	865	<i>n.a.</i>
Manufactured ..	28	22	17	33	44	<i>n.a.</i>
South Africa—						
Packing ..	(£301,056)	(£291,185)	(£233,431)	(£243,499)	(£261,999)	<i>n.a.</i>
Cement products	(£5,730)	(£3,179)	(£7,770)	(£10,121)	(£8,997)	<i>n.a.</i>
Other manufactures	(£43,076)	(£80,468)	(£280,573)	(£135,058)	(£58,605)	<i>n.a.</i>
Sudan—						
Manufactured ..	5,037	3,044	2,357	6,199	6,296	5,801
Tunisia—						
Manufactured (a) ..	30	44	45	62	70	72
Cement products (b) ..	<i>n.a.</i>	1,999	3,457	6,870	5,830	8,395
Costa Rica—						
Manufactured ..	38	41	83	58	44	60
Guatemala—						
Unmanufactured ..	449	498	291	222	422	469
Manufactured ..	105	79	53	77	74	77
Honduras—						
Manufactured ..	15	30	23	46	29	35
Mexico—						
Unmanufactured ..	9,293	10,187	8,301	13,208	15,074	11,508
Manufactured ..	1,343	791	1,236	860	803	632
Netherlands Antilles—						
Manufactured ..	827	487	562	370	205	313
Cement sheets	2,541	2,532	2,839	1,947	2,557	2,976
Nicaragua—						
Manufactured ..	111	58	17	31	24	55
Panama Republic—						
Cement products	<i>n.a.</i>	758	678	275	347	<i>n.a.</i>
Salvador—						
Unmanufactured ..	294	343	460	223	587	406
Manufactured ..	81	117	101	79	115	4
United States—						
Unmanufactured—						
Crude ..	49,518	50,819	49,513	42,958	38,757	40,743
Mill fibre ..	122,617	120,865	135,427	133,231	128,161	13,266
Other ..	437,447	403,612	451,709	421,575	383,574	549,587
Manufactured ..	19,859	12,104	29,450	40,439	32,102	38,584
Argentina—						
Unmanufactured and manufactured ..	9,437	9,193	8,125	11,565	12,371	11,598
Brazil—						
Unmanufactured ..	10,394	11,159	10,823	13,453	15,264	11,040
Manufactured ..	706	692	675	817	605	546
Chile—						
Manufactured ..	3,916	2,802	4,740	4,048	8,000	<i>n.a.</i>
Colombia—						
Unmanufactured ..	6,553	5,019	6,376	6,728	10,100	10,909
Manufactured ..	<i>r</i> 711	<i>r</i> 567	591	<i>r</i> 543	846	822
Cement products	8	29	—	361	1,106	14,882
Ecuador—						
Unmanufactured ..	10	—	147	<i>n.a.</i>	346	384
Manufactured ..	202	346	660	<i>n.a.</i>	224	217
Peru—						
Unmanufactured ..	2,259	1,971	1,711	1,784	2,374	2,377
Manufactured ..	253	371	245	297	523	1,049
Surinam—						
Manufactured ..	1,408	934	979	1,955	<i>n.a.</i>	744
Uruguay ..	1,614	1,152	1,888	1,823	<i>n.a.</i>	<i>n.a.</i>

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

(b) Including manufactures of other fibro-cements.

IMPORTS OF ASBESTOS (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Venezuela—						
Unmanufactured ..	2,524	1,689	2,492	2,241	3,872	3,398
Manufactured ..			710	1,945	1,409	568
Cement products ..	3,796	2,158	3,428	2,478	546	1,694
Burma—						
Unmanufactured ..	—	481	194	461	665	493
Cement products ..	12,711	7,785	446	516	12	4
Formosa—						
Unmanufactured ..	906	400	417	1,030	820	1,400
Manufactured ..	524	204	262	254	158	211
Indonesia—						
Unmanufactured ..	179	224	703	579	2,171	n.a.
Manufactured ..	460	403	186	447	459	n.a.
Cement products ..	4,757	1,822	2,626	1,541	2,296	n.a.
Iran (b)—						
Unmanufactured ..	n.a.	n.a.	456	1,226	n.a.	n.a.
Manufactured ..	n.a.	49	87	243	n.a.	n.a.
Cement products ..	n.a.	1,602	1,426	1,759	n.a.	n.a.
Iraq—						
Unmanufactured ..	1,095	91	269	443	n.a.	n.a.
Manufactured ..	424	247	124	201	n.a.	n.a.
Cement products ..	1,886	1,974	853	1,673	n.a.	n.a.
Israel—						
Unmanufactured ..	n.a.	n.a.	(a) 3,152	6,510	8,533	8,031
Japan—						
Unmanufactured ..	48,712	38,126	52,836	75,838	113,002	95,147
Manufactured ..	386	397	223	149	336	622
Cement products ..	556	195	325	221	158	5
Lebanon—						
Unmanufactured ..	1,636	1,712	1,357	2,222	2,097	n.a.
Manufactured ..	18	17	40	63	53	n.a.
Cement products ..	1,055	906	325	844	488	n.a.
Philippine Republic—						
Unmanufactured ..	766	332	945	1,216	830	931
Manufactured ..	365	522	933	621	n.a.	n.a.
Cement products ..	246	48	—	350	817	n.a.
Syria—						
Cement sheets ..	782	2,582	1,774	2,151	512	4,824
Other manufactures ..	42	38	51	51	79	73
Thailand—						
Unmanufactured ..	3,551	3,426	2,215	6,331	3,531	5,311
Manufactured ..	120	93	568	211	281	360
Cement products ..	7,245	5,418	5,005	4,928	5,892	3,922
Turkey—						
Unmanufactured ..	—	960	890	463	734	1,492
Manufactured ..	172	159	701	1,313	906	811
Cement products ..	519	981	104	250	192	146

(a) April to December only.

(b) Years ended March 20 following that stated.

BARIUM MINERALS

PRODUCTION OF BARIUM MINERALS*

Long tons

Producing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom— Barytes and witherite, unground	55,140	45,610	38,283	40,591	44,825	33,784
do. ground	22,788	13,442	22,796	19,615	37,029	41,897
Canada	203,614	174,749	213,363	137,761	170,896	204,706
Southern Rhodesia	—	30	213	—	—	—
Swaziland	313	428	411	179	405	66
India	12,913	15,657	13,338	13,371	15,469	24,089
Pakistan	—	305	508	633	437	2,825
Australia	9,778	6,802	6,214	11,417	19,217	12,491
Irish Republic	10,028	7,800	r 6,014	10,450	4,160	—
OTHER COUNTRIES						
Austria	3,488	4,194	3,632	r 4,312	2,425	1,064
France	75,380	119,584	85,053	104,340	84,828	74,000
Germany (Federal)	400,129	365,272	382,414	462,194	401,000	418,000
Germany (East) (c)	25,000	25,000	25,000	25,000	n.a.	n.a.
Greece	128,169	151,455	127,691	100,181	73,815	(c) 79,000
Italy	111,558	109,800	119,406	141,004	139,285	119,990
Poland	(c) 11,000	(c) 11,000	(c) 11,000	(c) 11,000	36,751	44,501
Portugal	762	1,207	3,357	3,848	2,040	1,330
Spain	18,113	28,043	25,166	25,532	31,204	n.a.
U.S.S.R. (c)	98,000	120,000	120,000	125,000	125,000	180,000
Yugoslavia (a)	88,189	76,082	113,010	101,794	81,734	86,570
Algeria	48,477	60,635	21,463	54,968	30,253	(d) 30,000
Egypt	262	2,037	1,801	2,559	(c) 3,000	(c) 3,000
Morocco	14,532	42,018	36,227	82,986	80,885	88,375
South Africa	3,008	2,429	2,103	1,677	1,752	1,672
Cuba (a)	20,354	10,653	—	—	—	—
Mexico	(a) 383,516	(a) 194,063	(a) 177,303	266,481	244,780	313,111
United States	1,164,770	434,185	774,287	688,677	653,019	791,932
Argentina	22,557	r 16,711	17,716	(c) 18,000	(c) 18,000	(c) 18,000
Brazil	49,419	61,277	50,009	39,130	61,459	53,797
Chile	768	n.a.	n.a.	941	1,385	(c) 1,370
Colombia	6,214	13,000	10,000	7,200	10,064	8,000
Peru	85,168	105,306	94,247	107,869	109,409	112,742
Uruguay	—	—	34	—	100	n.a.
Burma	—	810	1,000	1,600	2,007	3,984
Iran (b)	n.a.	1,004	1,700	13,000	18,700	14,763
Japan	24,566	14,741	19,045	r 22,486	28,788	37,514
Korea (South)	7	—	—	200	700	905
Philippine Republic	5,436	57	166	5,534	1,883	409
Turkey	1,885	5,389	2,700	1,467	—	1,870
TOTAL†	3,100,000	2,200,000	2,500,000	2,700,000	2,600,000	2,900,000

*Barytes unless otherwise stated.

†Excluding barytes known to have been produced in Bulgaria, Czechoslovakia, Norway, China and North Korea.

(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	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Barium compounds, excluding blanc fixe ..	3,618	2,419	4,295	4,393	4,160	4,935
Canada—						
Barytes	178,379	154,412	197,965	120,511	153,300	206,163
India—						
Unground barytes ..	13,848	23,120	13,008	24,412	7,219	5,419
Australia—						
Ground barytes ..	3,377	2,494	1,108	7,650	5,902	1,663
Irish Republic—						
Unground barytes ..	9,157	9,812	8,425	9,675	8,420	<i>n.a.</i>
OTHER COUNTRIES						
Austria—						
Barytes	15	2	—	25	30	—
Belgium-Luxemburg						
E.U.—						
Barytes and witherite ..	1,195	223	1	33	438	23
Barytes, ground	12	24	3			
Sulphate	334	339	745	2,423	1,088	471
Carbonate	26	12	—	118	126	—
Chloride	54	1	4	6	36	20
France—						
Barytes	18,339	29,371	18,857	21,788	21,875	18,063
Witherite	—	30	—	—	—	—
Chloride	4,780	4,153	5,613	5,783	6,345	6,666
Carbonate	2,069	1,244	1,673	2,232	1,907	4,206
Sulphate	1,635	626	150	410	739	645
Sulphide	12	11	7	63	21	11
Germany (Federal)—						
Barytes and witherite ..	104,671	121,184	117,937	134,083	121,937	98,221
Carbonate	6,402	7,528	11,722	14,782	14,360	12,139
Chloride	4,133	3,635	4,797	3,627	4,128	3,050
Sulphate	<i>n.a.</i>	<i>n.a.</i>	15,167	15,858	16,609	18,402
Greece—						
Barytes	47,143	97,448	110,515	108,094	59,671	60,829
Italy—						
Barytes	39,179	41,613	34,536	33,095	38,012	45,944
Witherite	—	500	63	3	20	90
Carbonate	70	103	41	816	1,965	1,697
Chloride	307	194	487	1,014	1,464	1,422
Sulphate	—	11	181	344	361	571
Sulphide	26	31	69	103	<i>n.a.</i>	<i>n.a.</i>
Netherlands—						
Barytes	82	1	102	87	19	8
Sulphate	586	1,919	1,920	2,141	2,199	1,489
Sulphide	3,801	3,181	3,222	3,408	3,275	3,495
Portugal—						
Barytes	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,580	601	5
Spain—						
Barytes	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	34,983	39,461
Sweden—						
Barytes and witherite ..	18	38	—	3	5	—
Yugoslavia—						
Unground barytes ..	77,434	64,987	100,358	89,127	70,489	70,861
Ground barytes ..	10,755	11,095	12,652	12,667	11,245	15,709
Algeria—						
Barytes	21,815	11,802	3,167	3,101	814	974
Sulphate	30	428	98	—	<i>n.a.</i>	<i>n.a.</i>

*For Lithopone, see "Zinc".

EXPORTS OF BARIUM MINERALS, ETC. (cont.)

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES (cont.)						
Morocco—						
Barytes	17,208	20,450	24,355	55,401	73,522	66,010
Cuba—						
Barytes	20,354	10,653	—	—	—	—
Mexico—						
Barytes	383,516	194,063	177,303	156,083	124,655	216,270
Argentina—						
Barytes	<i>n.a.</i>	<i>n.a.</i>	1,545	866	827	626
Brazil—						
Barytes	21,210	59,606	46,308	47,047	41,723	50,196
Peru—						
Barytes	118,961	77,561	105,586	102,810	100,330	83,341
Japan—						
Barytes	123	—	—	—	325	<i>n.a.</i>
Chloride	7	—	1	5	—	9
Sulphate	166	95	62	41	77	49
Korea (South)—						
Barytes	<i>n.a.</i>	251	1,008	366	936	294

IMPORTS OF BARIUM MINERALS, ETC.*

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Unground barytes ..	27,076	32,111	19,054	27,640	22,809	19,073
Ground barytes ..	18,608	17,822	17,769	18,071	15,232	8,369
Barium compounds, excluding blanc fixe ..	2,459	2,507	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Canada—						
Barytes	1,635	1,234	1,484	1,804	1,687	2,158
Blanc fixe	332	400	905	1,076	1,021	1,032
Trinidad and Tobago—						
Barytes	19,370	36,207	33,647	27,218	30,380	<i>n.a.</i>
India—						
Barytes	68	66	18	(a) 5	(a) 8	(a) 7
Carbonate	175	206	488	(a) 646	(a) 160	(a) 1,064
Chloride	238	357	483	(a) 204	(a) 273	(a) 787
Sulphate	171	67	105	(a) 150	(a) 66	(a) 58
Pakistan—						
Barytes	5,585	7,645	1,748	3,744	392	82
Australia (b)—						
Barytes ground ..	102	137	503	151	160	—
Carbonate	118	170	186	283	204	371
Chloride	158	146	171	160	162	220
Sulphate incl. blanc fixe ..	534	490	421	520	530	261
Other compounds ..	91	86	92	126	130	—
New Zealand—						
Barytes	886	2,135	1,199	3,990	5,233	1,116
OTHER COUNTRIES						
Austria—						
Barytes	5,418	5,627	7,259	9,006	8,665	8,424
Carbonate	190	346	384	503	627	447
Chloride	145	79	89	252	315	291
Sulphate	<i>n.a.</i>	<i>n.a.</i>	334	395	287	273
Belgium-Luxemburg						
E.U.—						
Barytes and witherite ..	14,133	20,698	14,432	} 34,015	32,199	29,276
Barytes, ground	7,556	6,205	6,298			
Sulphate	1,752	1,452	1,477	1,983	1,881	1,732
Carbonate	2,079	1,575	1,955	2,099	573	1,446
Chloride	2,357	1,782	1,887	2,019	2,275	1,471
Sulphide	3,757	3,168	3,178	3,379	3,300	3,442
Denmark—						
Barytes	1,020	922	685	841	737	615
Carbonate	165	332	306	453	318	302
Chloride	142	211	172	157	231	140
Sulphate	1,166	1,094	539	435	306	298
Finland—						
Barytes	165	345	351	} 349	402	455
Witherite	—	—	—			
Chloride	145	130	73	180	136	305
Carbonate	116	51	110	96	141	186
Sulphate	210	379	471	694	733	880
France—						
Barytes	25,891	43,592	62,608	54,605	53,501	50,912
Witherite	—	—	—	89	154	3
Chloride	—	—	—	11	19	—
Carbonate	—	12	—	—	31	2
Sulphate	954	574	611	720	696	714

*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	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (Federal)—						
Barytes and witherite ..	23,745	27,175	7,945	14,644	9,804	1,094
Carbonate	—	—	763	1,543	1,709	246
Chloride	256	2	372	158	523	867
Greece—						
Sulphate	141	150	115	256	206	230
Iceland—						
Sulphate	7	2	9	12	17	21
Italy—						
Barytes	39	27	14	196	10,919	19,099
Witherite	972	—	1,937	2,574	1	24
Carbonate	262	253	159	262	29	79
Chloride	45	88	52	56	—	—
Sulphate	716	677	522	518	605	848
Sulphide	—	—	1	—	<i>n.a.</i>	<i>n.a.</i>
Netherlands—						
Barytes and witherite ..	22,970	25,166	19,113	} 36,322	37,501	22,296
Barytes, ground	5,040	3,567	4,083			
Carbonate	2,053	3,028	3,667			
Chloride	451	261	314			
Sulphate	1,355	611	854			
Sulphate				1,326	961	1,032
Norway—						
Barytes	} <i>n.a.</i>	} <i>n.a.</i>	537	593	580	354
Carbonate			357	362	461	336
Chloride			200	174	169	186
Sulphate			241	185	196	122
Poland—						
Barytes	<i>n.a.</i>	6,109	6,174	6,635	9,307	<i>n.a.</i>
Portugal—						
Barytes	127	224	174	59	100	87
Chloride	81	16	26	95	28	96
Sulphate	19	17	25	182	145	191
Sweden—						
Barytes and witherite ..	3,331	2,835	1,989	2,861	2,038	1,643
Carbonate	} 912	} 758	1,214	1,762	2,238	2,226
Chloride			251	513	395	237
Sulphate			1,695	1,584	1,919	2,520	1,505	1,822
Switzerland—						
Barytes	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,931	2,932	2,470
Sulphate	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,754	1,954	1,814
U.S.S.R.—						
Barytes	21,000	23,400	32,300	59,500	70,000	79,500
Algeria—						
Barytes	—	6,238	4,230	12,261	<i>n.a.</i>	<i>n.a.</i>
Sulphate	957	10	1	18	<i>n.a.</i>	<i>n.a.</i>
Carbonate	181	14	4	2	<i>n.a.</i>	<i>n.a.</i>
Congo Republic—						
Barytes and witherite ..	33	1	45	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Chloride	2	2	92	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sulphate	453	233	608	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Malagasy Republic—						
Barytes and witherite ..	393	291	25	49	—	<i>n.a.</i>
Morocco—						
Barytes	926	278	10	8	12	11
South Africa—						
Barytes	672	662	540	798	1,200	<i>n.a.</i>
Barium compounds	305	239	297	381	400	<i>n.a.</i>
Tunisia—						
Barytes	914	624	1,084	374	809	2,163
Sulphate	98	4	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Cuba—						
Sulphate	183	178	245	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

IMPORTS OF BARIUM MINERALS, ETC. (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Mexico—						
Barytes	1,364	644	896	368	355	660
Carbonate	201	305	331	445	426	286
Chloride	126	88	323	310	298	451
United States—						
Unground barytes ..	743,416	470,144	571,070	r 572,930	543,000	657,793
Ground barytes ..	378	902	1,467	41	6,221	124
Witherite	2,704	2,181	2,279	1,244	1,610	1,341
Carbonate	1,378	288	1,692	1,256	1,063	1,340
Chloride	1,256	1,229	1,348	897	909	1,027
Sulphate	1,292	1,405	1,569	1,454	1,230	1,539
Argentina—						
Sulphate	38	299	41	109	203	336
Barium compounds ..	378	64	176	255	290	106
Brazil—						
Carbonate	592	293	665	1,026	528	1,385
Chloride	151	192	364	363	896	602
Sulphate	557	177	379	457	585	560
Chile—						
Barytes	27	28	26	19	<i>n.a.</i>	<i>n.a.</i>
Carbonate	1	10	8	132	<i>n.a.</i>	<i>n.a.</i>
Chloride	2	1	5	—	<i>n.a.</i>	<i>n.a.</i>
Sulphate	3	2	6	4	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Barytes	2	1,614	1,620	440	—	—
Witherite	4	2	—	—	1	1
Carbonate	283	35	55	227	358	219
Chloride	19	2	15	57	4	67
Sulphate	32	2,225	2,685	451	7	9
Ecuador—						
Sulphate	230	499	359	<i>n.a.</i>	662	10
Peru—						
Carbonate	60	73	71	223	200	200
Chloride	41	28	83	105	67	96
Sulphate	30	38	38	334	70	15
Uruguay—						
Sulphate	266	159	139	189	<i>n.a.</i>	<i>n.a.</i>
Venezuela—						
Barytes	75,452	67,303	56,941	17,910	3,596	3,500
Carbonate	133	21	56	45	48	33
Chloride	283	317	505	361	618	229
Sulphate	47	45	50	34	46	56
Formosa—						
Carbonate	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	24	30	49
Chloride	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	25	26	37
Iraq—						
Barytes	28,150	12,149	22,207	5,410	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Barytes	6,508	2,540	10,714	18,212	8,863	5,797
Turkey—						
Barytes	2	—	319	971	63	6
Carbonate	47	13	27	43	102	98
Chloride	68	3	126	102	8	160
Sulphate	16	15	76	19	342	973

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

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Cyprus (a)	785	894	1,009	219	—	—
India	100	5,817	n.a.	n.a.	(b) 11,000	(b) 14,000
Australia—						
Bentonite	742	37	133	382	587	485
Bentonitic clay	187	116	152	190	307	—
New Zealand	1,573	1,801	2,149	2,165	1,661	1,488
OTHER COUNTRIES						
Austria	4,879	3,750	3,090	3,227	3,528	3,178
Greece	10,143	17,000	20,000	24,000	25,000	29,518
Hungary	41,306	44,010	51,016	69,826	73,602	n.a.
Italy	38,626	49,905	r 94,395	124,536	154,864	109,567
Spain	2,247	4,708	6,481	4,761	7,222	n.a.
Yugoslavia	4,793	n.a.	7,675	n.a.	(b) 20,000	17,711
Morocco	4,897	n.a.	22,025	n.a.	n.a.	n.a.
South Africa	—	—	2,609	3,421	4,042	5,654
United States (c) ..	1,295,417	1,153,048	1,225,255	1,132,857	1,167,135	1,289,406
Argentina	24,022	25,716	n.a.	n.a.	n.a.	n.a.
Turkey	—	600	n.a.	n.a.	n.a.	n.a.

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

(a) Exports of bentonitic clay.

(b) Estimated.

(c) Sold or used by producers.

EXPORTS OF BENTONITE

Long tons

Exporting Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Cyprus (a)	785	894	1,009	219	—	—
India	10	271	455	56	289	214
OTHER COUNTRIES						
Austria	595	421	2	74	32	86
France	1,441	2,370	3,673	3,790	<i>n.a.</i>	<i>n.a.</i>
Germany (Federal) ..	<i>n.a.</i>	1,637	891	189	1,127	702
Greece	9,649	15,255	15,531	22,568	13,210	<i>n.a.</i>
Italy	9,357	8,747	11,548	10,560	19,053	27,788
Yugoslavia	4,794	10,125	6,878	11,595	9,405	8,570
Algeria	31,118	36,150	26,014	27,650	<i>n.a.</i>	<i>n.a.</i>
Morocco	295	8,179	12,263	11,898	7,948	7,095
United States	66,000	40,000	42,192	51,867	39,119	53,853
Argentina	456	940	2,735	2,153	4,595	6,779

(a) Bentonitic clay.

IMPORTS OF BENTONITE

Long tons

Importing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
India	79	24	45	147	75	141
Australia (a)	5,051	4,952	6,330	7,270	6,895	9,205
OTHER COUNTRIES						
Austria	2,226	3,764	2,837	3,407	4,669	5,971
France	9,808	31,493	31,407	22,694	<i>n.a.</i>	<i>n.a.</i>
Germany (Federal) ..	<i>n.a.</i>	1,782	1,934	3,053	3,828	3,550
Italy	6,088	5,109	6,196	4,784	3,919	4,275
Poland	<i>n.a.</i>	3,403	4,353	5,675	6,536	<i>n.a.</i>
Portugal	619	814	652	<i>n.a.</i>	1,050	1,348
Sweden	<i>n.a.</i>	<i>n.a.</i>	7,190	9,640	9,649	6,358
Algeria	777	5,461	7,841	6,063	<i>n.a.</i>	<i>n.a.</i>
Morocco	178	357	100	13	37	45
United States	119	49	828	197	652	247
Brazil	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	3,603	7,091
Colombia	<i>n.a.</i>	<i>n.a.</i>	1,254	2,803	2,301	2,337
Ecuador	643	189	213	<i>n.a.</i>	178	117
Venezuela	20,313	8,651	7,159	3,114	3,722	4,092

(a) Including bentonitic clay.

BERYL
PRODUCTION OF BERYL

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Kenya	5	4	2	1	1	—
Northern Rhodesia	5	11	2	2	—	—
Southern Rhodesia	511	296	393	481	354	498
Swaziland	—	—	2	5	6	—
Uganda	70	77	209	419	1,015	(e) 1,064
India (a)	1,121	536	—	893	790	134
Australia	395	247	317	190	306	222
OTHER COUNTRIES						
Norway (a)	—	3	4	—	—	—
Portugal	170	46	36	29	34	17
Sweden	—	25	(a) 37	—	—	(a) 23
Congo Republic	1,487	949	250	r 332	164	272
Malagasy Republic	265	161	423	626	746	(b) 700
Mozambique	1,670	1,036	1,392	1,425	943	560
Rwanda and Burundi	94	45	166	r 277	468	351
South Africa	635	412	181	291	171	321
South West Africa	345	220	152	231	225	142
United States (c)	465	(d) 460	(d) 379	(d) 454	(d) 1,002	(d) 873
Argentina	1,402	r 884	576	659	419	n.a.
Brazil	1,296	1,173	865	1,669	1,504	987
Afghanistan	13	—	—	10	—	—
Korea (South)	—	—	—	—	5	—
TOTAL*	10,000	6,600	5,400	8,000	8,100	7,000

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

(a) Imports into the United States.

(b) United States Bureau of Mines' estimate.

(c) Shipments from mine.

(d) Including lower grade beryllium ore as follows: 1958—37 long tons; 1959—87 long tons; 1960—237 long tons; 1961—719 long tons; 1962—679 long tons.

(e) Exports.

EXPORTS OF BERYL

Long tons

Exporting Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Rhodesia & Nyasaland ..	457	288	272	533	381	451
Uganda	73	74	171	382	871	1,064
India (a)	1,121	536	—	893	790	134
Australia	397	146	—	148	167	218
OTHER COUNTRIES						
Italy	—	—	67	179	37	—
Portugal	156	52	79	29	—	—
Congo Republic ..	400	1,257	446	412	(a) 196	(a) 433
Malagasy Republic	786	112	232	607	827	713
Morocco	—	10	—	—	—	—
Mozambique	1,330	1,001	1,496	1,402	957	(a) 605
South Africa	478	382	95	217	64	312
South West Africa	278	259	99	89	91	115
Argentina	1,497	527	2,978	1,033	1,329	890
Brazil	2,212	1,401	2,613	3,417	3,128	2,963

(a) Imports into the United States.

IMPORTS OF BERYL*

Long tons

Importing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom (a) ..	909	295	255	18	26	5
OTHER COUNTRIES						
France	1,119	1,080	545	861	776	601
Italy	—	10	—	779	925	—
United States	6,509	4,106	7,177	7,985	7,603	7,636

*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	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Uganda—						
Ore (<i>Bi content</i>) ..	1	7	7	2	1	<i>n.a.</i>
Canada—						
Metal plus content of bullion and concen- trates exported ..	143	184	149	189	213	168
Australia—						
Concentrates (<i>Bi content</i>)	1	1	—	—	—	—
OTHER COUNTRIES						
France—						
Mispickel (<i>Bi content</i>) ..	44	50	45	50	52	62
Spain—						
Ore (<i>Bi content</i>) ..	93	50	27	15	9	<i>n.a.</i>
Sweden—						
Metal (c)	54	49	29	35	35	69
Yugoslavia—						
Metal	98	76	89	103	97	89
Mozambique—						
Ore (<i>Bi content</i>) ..	3	1	10	14	22	8
South Africa—						
Ore (<i>Bi content</i>) ..	19	1	—	—	—	—
South West Africa—						
Ore	1	1	1	—	1	—
Mexico—						
Ore (<i>Bi content</i>) ..	348	187	235	268	1,047	348
Argentina—						
Concentrates (<i>Bi content</i>) (a) ..	21	26	60	<i>n.a.</i>	—	—
Bolivia (b)—						
Ore, etc. (<i>Bi content</i>) ..	40	109	218	180	208	291
Peru—						
Concentrates (<i>Bi content</i>)	10	9	} 329	408	467	484
Lead bars (<i>Bi content</i>) ..	92	131				
Metal	257	240				
Japan—						
Ore (<i>Bi content</i>) ..	—	—	—	311	<i>n.a.</i>	1,184
Korea (South)—						
Ore (<i>Bi content</i>) ..	107	89	101	142	149	158

*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) Estimated.

(b) Exports.

(c) United States Bureau of Mines' estimate.

EXPORTS OF BISMUTH, ETC.

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Bismuth.. ..	328	323	407	380	382	509
Bismuth salts	173	170	173	199	214	142
Uganda—						
Ore (<i>Bi content</i>) ..	—	(8 cwt.)	6	4	—	<i>n.a.</i>
Canada—						
Bismuth.. ..	64	157	134	128	174	<i>n.a.</i>
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Bismuth.. ..	1	27	63	(a) 51	(a) 51	(a) 64
France—						
Bismuth (a)	64	34	58	54	64	44
Germany (Federal)—						
Bismuth.. ..	81	158	205	152	136	137
Netherlands—						
Bismuth (a)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	148	149
Bismuth salts	15	15	21	16	21	67
Spain—						
Bismuth.. ..	48	35	25	—	—	—
Yugoslavia—						
Bismuth.. ..	90	67	67	78	70	64
South Africa—						
Ore	106	4	70	3	1	—
Mexico—						
Bismuth, refined ..	124	139	95	90	91	122
do. impure bars ..	231	134	198	198	1,323	295
United States—						
Matte, residues, etc. ..	51	16	89	—	67	104
Metal and alloys ..	71	141	80	70	75	53
Argentina—						
Ore	22	15	48	—	—	—
Bolivia—						
Ore, etc. (<i>Bi content</i>) ..	40	109	218	180	208	291
Peru—						
Bars, etc. (<i>Bi content</i>) ..	338	346	277	339	326	731
Japan—						
Bismuth.. ..	1	—	—	10	48	87
Korea (South)—						
Bismuth, unwrought ..	131	100	73	57	56	—

(a) Including scrap.

IMPORTS OF BISMUTH, ETC.

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Bismuth	424	407	455	471	216	528
Unwrought alloys	278	128	123	124	340	348
Canada—						
Bismuth	4	6	6	3	8	25
Bismuth salts	(£9,231)	(£7,524)	5	4	6	5
India—						
Bismuth and alloys	19	42	49	(a) 38	(a) 60	(a) 44
Australia (b)—						
Bismuth	19	16	17	16	17	12
Bismuth salts	4	6	12	10	12	7
New Zealand—						
Bismuth and its salts	3	3	4	2	1	n.a.
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Bismuth	1	4	22	(c) 26	(c) 40	(c) 98
Bismuth salts	46	63	62	77	66	74
Denmark—						
Bismuth salts	10	11	n.a.	n.a.	n.a.	n.a.
France—						
Bismuth (c)	314	311	445	515	508	556
Germany (Federal)—						
Bismuth (c)	215	237	249	212	232	276
Italy—						
Bismuth	18	17	27	38	35	44
Bismuth salts	3	4	2	11	n.a.	n.a.
Netherlands—						
Bismuth salts	39	54	67	84	60	86
Poland—						
Bismuth	n.a.	37	89	44	20	n.a.
Spain—						
Bismuth	—	—	1	13	23	17
Bismuth salts	3	—	1	n.a.	n.a.	n.a.
Morocco—						
Bismuth salts	7	8	7	14	15	13
Mexico—						
Bismuth salts	7	6	5	8	8	5
United States—						
Bismuth	374	336	193	515	341	358
Argentina—						
Bismuth and its salts	2	1	1	2	5	1
Brazil—						
Bismuth	2	1	2	3	5	7
Bismuth salts	12	8	9	23	18	4
Chile—						
Bismuth	4	2	1	1	n.a.	n.a.
Colombia—						
Bismuth salts	4	5	5	8	4	5
Peru—						
Bismuth salts	1	1	1	—	1	1
Japan—						
Bismuth	—	—	—	8	2	2
Turkey—						
Bismuth salts	4	1	8	3	4	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	1957	1958	1959	1960	1961	1962
Italy— Boric acid	3,489	3,405	2,450	2,615	1,745	1,358
United States (a)— Borates	483,146	471,615	553,523	571,956	538,047	577,333
Argentina— Borates	21,429	10,480	10,479	<i>n.a.</i>	6,728	<i>n.a.</i>
Chile— Boron minerals ..	5,696	8,296	5,665	2,873	157	3,754
Turkey— Borates	26,946	68,306	78,985	68,736	63,999	112,141

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	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Borax	270	802	1,149	935	656	667
Hong Kong—						
Borax	11	36	95	21	28	2
India—						
Borax	—	1	1	(a) —	(a) —	(a) —
OTHER COUNTRIES						
Austria—						
Boric acid	3	1	4	—	—	—
Perborates	2,746	<i>n.a.</i>	2,587	<i>n.a.</i>	2,077	1,710
Belgium-Luxemburg						
E.U.—						
Borax	669	199	14	33	102	5
Boric acid	4	5	4	8	10	7
Borates and perborates	119	20	666	1,370	2,881	4,062
France—						
Borax, refined	604	591	1,241	3,878	3,094	3,273
Boric acid	158	115	178	658	3,056	5,496
Borates and perborates	1,697	392	969	911	955	4,466
Germany (Federal)—						
Borax	(b) 456	129	354	161	79	210
Boric acid	206	156	173	107	111	62
Borates and perborates	(c) 11,192	9,171	9,132	8,522	8,432	8,590
Italy—						
Boric acid crude ..	1	—	3	—	} 3,578	3,957
do, refined	634	1,451	677	1,731		
Borax, refined	3,065	4,093	2,080	1,150	905	1,537
Perborates	—	575	355	974	1,232	702
Netherlands—						
Borax	406	359	425	202	167	421
Sweden—						
Perborate of sodium ..	52	79	157	47	16	71
Switzerland—						
Borates and perborates	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	2,830	2,242	1,941
United States—						
Borax, borates and boric acid	191,515	210,343	226,494	268,398	240,421	260,950
Argentina—						
Borates of calcium and sodium	3,689	3,030	2,006	981	2,239	3,516
Japan—						
Borax	5	2	2	5	4	(d) 14
Boric acid	11	3	53	21	5	8
Turkey—						
Borates	21,646	50,452	60,525	60,552	63,305	87,081

(a) Years ended March 31 following that stated.

(b) Including other borates.

(c) Perborate of sodium only.

(d) Including other borates and perborates.

IMPORTS OF BORATES

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Boron minerals	15,883	14,889	21,967	23,712	21,438	21,591
Borax	25,724	23,708	25,616	28,699	22,412	21,497
Boric acid	2,975	3,472	3,645	6,799	3,773	3,475
Rhodesia & Nyasaland—						
Borax	76	121	117	134	117	139
Boric acid	5	3	12	12	13	12
Canada—						
Borax	9,182	9,077	8,999	8,942	10,465	11,631
Boric acid	1,420	1,457	2,017	2,082	2,018	2,378
Hong Kong—						
Borax, refined	2,182	3,149	3,753	3,147	2,210	2,780
India—						
Borax	3,935	4,881	5,731	(b) 4,974	(b) 7,206	(b) 4,333
Boric acid	875	303	717	(b) 1,042	(b) 1,046	(b) 638
Pakistan—						
Borax	267	7	651	644	404	287
Australia (a)—						
Boron minerals	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	783	1,093	1,833
Boron salts	2,545	2,519	3,495	3,940	4,311	3,417
Boric acid	1,150	1,049	1,080	1,427	1,046	1,009
New Zealand—						
Borax, crude	1,101	894	752	700	1,088	<i>n.a.</i>
Boric acid	623	230	r 247	301	388	477
Irish Republic—						
Borax	1,299	933	779	914	1,001	1,109
OTHER COUNTRIES						
Austria—						
Boron minerals	3,483	3,552	4,259	3,047	4,103	4,112
Borates	4	—	3	2	1	3
Boric acid	6	6	2	1	6	2
Perborates	1	<i>n.a.</i>	4	6	5	5
Belgium-Luxemburg						
E.U.—						
Borax	1,572	1,719	3,464	3,878	4,413	5,186
Boric acid	312	257	297	1,039	1,038	373
Borates and perborates	4,260	4,136	2,662	2,623	2,514	2,001
Denmark—						
Boron minerals	879	437	723	706	569	903
Borax	60	87	96	110	118	156
Boric acid	112	91	92	78	98	99
Borates and perborates	1,492	1,428	1,785	1,931	2,073	2,660
Finland—						
Borax	315	773	1,243	1,026	780	1,776
Boric acid	93	111	81	172	137	192
France—						
Boron minerals	13,798	21,492	20,096	25,721	25,584	32,028
Borax refined	10,537	11,574	10,472	13,400	13,990	17,586
Boric acid	761	2,767	745	1,521	1,589	1,432
Borates and perborates	625	502	568	559	560	548
Germany (Federal)—						
Boron minerals	25,622	32,318	26,810	39,874	37,736	32,262
Boric acid	4,615	4,356	5,399	7,363	6,275	7,406
Borax	(c) 8,819	9,434	11,704	13,228	12,580	13,266
Borates and perborates	(d) 350	1	74	42	214	213

(a) Years ended June 30 of that stated.

(c) Including other borates.

(b) Years ended March 31 following that stated.

(d) Perborate of sodium only.

IMPORTS OF BORATES (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Greece—						
Boron minerals	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	201	198	103
Borax	74	8	54	21	—	16
Boric acid	9	5	22	12	29	23
Italy—						
Boron minerals	10,059	11,925	18,961	28,291	36,631	57,289
Borax	1,797	2,742	2,650	3,603	3,430	4,138
Borates	—	2	5	1	378	43
Perborates	1,009	—	99	—	168	301
Netherlands—						
Boron minerals	2,263	2,851	2,756	3,259	2,078	3,770
Borax	7,764	5,554	8,897	8,065	10,674	10,166
Boric acid	793	850	1,160	934	1,572	1,431
Perborates	852	887	1,147	2,213	3,390	4,310
Norway—						
Borax	1,317	1,481	1,265	1,552	2,241	1,348
Boric acid	1,492	1,824	48	629	823	629
Perborate of sodium ..	<i>n.a.</i>	<i>n.a.</i>	1,425	1,285	1,573	2,053
Portugal—						
Boric acid	190	212	75	123	83	86
Borax	760	1,090	821	1,056	776	1,014
Spain—						
Boric acid	5	20	—	5	—	—
Borates	34	—	—	6	9	177
Sweden—						
Borax	2,887	2,499	2,696	2,134	2,879	3,731
Boric acid	283	199	344	281	349	258
Perborate of sodium ..	1,622	3,586	1,027	2,416	3,049	3,407
Switzerland—						
Borax	4,364	3,770	2,595	(a) 373	(a) 86	(a) 135
Boric acid				365	253	471
Borates	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	4,039	4,010	4,569
Perborates				118	298	478
U.S.S.R.—						
Borax	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	14,200	6,300
Yugoslavia—						
Boric acid	19	1,088	94	179	339	361
Algeria—						
Borax	100	166	83	96	<i>n.a.</i>	<i>n.a.</i>
Boric acid	8	13	11	7	<i>n.a.</i>	<i>n.a.</i>
Perborates	31	33	28	23	<i>n.a.</i>	<i>n.a.</i>
Angola—						
Borax	8	20	23	17	38	11
Congo Republic—						
Boric acid	5	5	9	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Borax	82	54	30	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Perborates	46	209	131	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Egypt—						
Borax	225	484	313	274	610	<i>n.a.</i>
Boric acid	47	73	140	169	213	<i>n.a.</i>
Morocco—						
Borax	50	113	108	95	88	276
Perborates	26	22	12	27	26	10
Mozambique—						
Borax	4	4	8	7	7	<i>n.a.</i>
Boric acid	3	1	—	3	1	<i>n.a.</i>
South Africa—						
Borax	1,440	1,188	1,320	1,194	1,983	<i>n.a.</i>
Boric acid	261	177	172	293	181	<i>n.a.</i>
Tunisia—						
Borax etc.	2	2	29	43	42	36

(a) Crude borax only.

IMPORTS OF BORATES (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES (cont.)						
Cuba—						
Borax	430	340	316	n.a.	n.a.	n.a.
Boric acid	79	95	127	n.a.	n.a.	n.a.
Mexico—						
Borax	3,262	3,595	4,209	4,638	4,141	4,134
Boric acid	506	432	535	744	737	814
Brazil—						
Boron minerals.. ..	1,352	1,410	1,110	694	1,077	1,082
Boric acid	975	575	686	386	586	873
Borax	1,612	2,462	3,848	3,440	4,479	6,212
Borates	71	15	11	4	2	1
Colombia—						
Borax	435	249	217	370	375	616
Boric acid	235	137	148	189	225	210
Perborate of sodium ..	51	46	82	108	63	99
Ecuador—						
Borax	9	8	32	n.a.	25	4
Boric acid	10	10	8	n.a.	13	9
Peru—						
Borax	330	355	438	435	324	356
Boric acid	60	77	110	113	104	51
Uruguay—						
Borates	283	165	408	407	n.a.	n.a.
Venezuela—						
Borax	155	168	211	196	262	382
Boric acid	90	67	105	74	207	102
Formosa—						
Borax	n.a.	n.a.	n.a.	1,019	559	981
Boric acid	54	88	34	66	76	92
Iran (a)—						
Borax	155	221	163	—	n.a.	n.a.
Boric acid	8	n.a.	11	5	n.a.	n.a.
Japan—						
Borax	7,919	10,545	13,249	14,739	17,164	20,154
Boric acid	2,250	2,455	4,715	4,943	5,032	5,775
Korea (South)—						
Borax	n.a.	139	189	367	296	n.a.
Philippine Republic—						
Boric acid	99	87	93	49	36	34
Syria—						
Borax	37	94	50	n.a.	n.a.	n.a.
Boric acid	3	4	2	n.a.	n.a.	n.a.
Thailand—						
Borax	118	702	445	300	565	863
Boric acid	41	25	22	13	97	80
Turkey—						
Borax	46	88	251	278	235	348
Boric acid	5	12	3	31	48	1

(a) Years ended March 20 following that stated.

BROMINE
PRODUCTION OF BROMINE

Lb. avdp.

Producing Country	1957	1958	1959	1960	1961	1962
France (a)	3,280,000	3,549,000	3,770,000	4,430,000	4,039,000	<i>n.a.</i>
Italy	1,549,534	1,211,892	1,574,308	2,816,689	3,334,202	<i>n.a.</i>
Spain	478,659	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
United States (a) (b) ..	191,971,145	176,397,000	195,483,000	175,010,000	180,798,000	190,747,000
Israel	(c)1,075,000	1,687,000	4,000,000	5,292,000	(d)9,700,000	<i>n.a.</i>
Japan	2,529,000	3,296,000	3,474,000	4,301,000	6,120,000	6,360,000

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

(a) Sales.

(b) Including bromine content of compounds.

(c) Estimated.

(d) Year ended 31st March, 1962.

EXPORTS OF BROMINE, ETC.

Lb. avdp.

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom— Bromides	533,300	376,000	481,000	698,000	647,700	<i>n.a.</i>
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Bromine	—	4,400	—	—	—	—
Bromides, etc.	7,716	4,600	1,500	17,800	700	200
France—						
Bromine	357,369	347,200	901,000	1,303,200	901,200	842,000
Bromides	1,099,886	1,455,100	1,901,500	2,289,100	1,380,500	1,817,000
Germany (Federal)—						
Bromine	650,364	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Bromides	113,097	159,200	152,100	194,900	168,900	<i>n.a.</i>
Italy—						
Bromine	3,527	—	—	59,609	—	400
Bromides	441	3,298	3,748	452	2,400	13,000
Netherlands—						
Bromides, etc.	429,901	798,000	1,082,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
United States—						
Bromine and compounds (a)	10,510,719	10,071,033	9,171,539	10,241,178	11,120,085	8,800,351
Israel—						
Bromine	961,000	1,687,000	2,209,000	2,601,000	2,313,000	2,523,000
Japan—						
Bromine	2,180	3,221	68	534	22,300	<i>n.a.</i>
Bromine compounds ..	33,711	44,000	33,281	31,268	27,818	208,052

(a) Including organic compounds.

IMPORTS OF BROMINE, ETC.

Lb. avdp.

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Bromine	407,680	672,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Canada—						
Bromine	19,065	17,397	66,434	70,301	62,007	35,415
Bromide of soda	51,933	79,806	87,918	67,353	106,103	77,906
India—						
Bromine	5,500	900	560	(b) 162,700	(b) 302,000	(b) 456,141
Bromide of potash	38,000	6,400	220	(b) 150	(b) 1,850	(b) 1,629
Bromide of soda	1,600	2,100	—	(b) 4	(b) 50	(b) —
Australia (a)—						
Bromine	(£186)	(£491)	(£412)	—	—	—
Bromate and bromide of potash	120,089	118,648	69,678	165,198	124,541	90,189
do. do. other	83,797	44,509	35,211	91,219	83,009	69,335
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Bromine	33,731	20,300	30,200	18,300	15,400	32,600
Bromides, etc.	574,745	661,200	534,800	749,100	911,400	870,400
Denmark—						
Bromine	<i>n.a.</i>	<i>n.a.</i>	197,500	4,000	31,700	11,000
Bromide of potash	9,921	14,300	12,300	23,400	11,500	22,000
Bromide of soda	45,856	58,900	82,500	87,100	24,300	90,000
Other bromides	42,549	45,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
France—						
Bromides	11,684	400	2,600	1,100	3,100	18,000
Germany (Federal)—						
Bromine	329,591	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Bromides	31,306	149,900	90,600	25,100	22,900	<i>n.a.</i>
Greece—						
Bromine	1,803	842	717	1,109	1,629	606
Italy—						
Bromine	76,942	110,700	311,407	698,788	1,023,600	477,962
Bromides	33,070	4,561	25,108	33,711	22,500	147,000
Netherlands—						
Bromides, etc.	288,806	335,000	423,000	403,000	247,000	326,000
Norway—						
Bromine	2,915	1,691	1,768	2,000	2,000	2,000
Portugal—						
Bromine	1,411	653	589	<i>n.a.</i>	1,100	882
Bromide of soda	776	1,063	745	} 4,000	20,700	9,500
Bromide of potash	7,022	4,698	6,169			
Bromide of ammonium	88	697	646			
Spain—						
Bromides	5,578	6,662	2	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sweden—						
Bromine	4,000	9,000	<i>n.a.</i>	7,000	22,000	9,000
Algeria—						
Bromine	3,527	—	200	—	<i>n.a.</i>	<i>n.a.</i>
Bromides	18,298	26,700	10,600	20,700	<i>n.a.</i>	<i>n.a.</i>
Congo Republic—						
Bromides	1,400	1,285	198	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Morocco—						
Bromides	11,627	9,830	6,934	4,672	11,691	7,072
South Africa—						
Bromine	1,879	899	1,407	6,461	14,457	<i>n.a.</i>
Cuba—						
Bromine	30,377	6,788	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<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	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Mexico—						
Bromine	323,462	130,139	85,085	151,841	49,423	130,723
Bromides of potash and soda	31,098	39,388	31,006	59,298	72,087	64,415
United States—						
Bromine and compounds	1,512	11,933	26,200	r 347,163	293,582	453,358
Argentina—						
Bromine and compounds	194,818	249,828	151,142	192,891	206,086	284,050
Brazil—						
Bromine	2,258	1,142	6,508	2,469	1,512	2,473
Bromides	70,592	133,073	311,418	779,923	672,000	668,627
Chile—						
Bromine	289	293	817	362	<i>n.a.</i>	<i>n.a.</i>
Bromides	963	2,704	2,515	1,016	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Bromine	1,151	146	60	—	—	—
Bromides, etc. ..	24,734	11,914	21,160	17,701	14,125	16,795
Peru—						
Bromine	362	163	478	604	522	269
Bromides	10,655	10,781	11,584	3,413	5,593	6,620
Iran (a)—						
Bromides	13,444	6,195	456	4,850	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Bromine compounds ..	2,635	3,109	201	—	7	6,700
Philippine Republic—						
Bromide of potash ..	22,115	4,535	24,295	18,973	<i>n.a.</i>	<i>n.a.</i>
Thailand—						
Bromide of potash ..	3,818	20,704	20,386	17,245	25,513	12,946
Turkey—						
Bromine	4,023	40	1,188	2,015	456	—
Bromides	47,278	46,244	8,093	3,497	3,622	6,285

(a) Years ended March 20 following that stated.

CADMIUM
PRODUCTION OF CADMIUM

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom ..	102	124	138	105	97	106
Northern Rhodesia ..	56	17	—	26	19	17
Canada (b) ..	1,057	784	964	1,052	606	961
Australia ..	393	353	341	r 300	311	351
OTHER COUNTRIES						
Austria ..	11	11	20	15	19	(e) 20
Belgium ..	600	960	1,200	900	1,000	1,000
France ..	173	172	240	250	250	240
Germany (Federal) ..	274	314	413	403	425	250
Italy ..	234	201	246	262	341	180
Netherlands (e) ..	34	40	40	40	40	40
Norway ..	109	107	127	108	103	113
Poland (g) ..	250	256	265	280	290	295
Spain ..	9	6	6	12	25	30
U.S.S.R. (g) ..	n.a.	r 1,279	r 1,476	r 1,673	1,968	1,968
Yugoslavia ..	25	25	32	38	(g) 39	(g) 39
Congo Republic ..	407	482	467	497	524	290
South West Africa (a) ..	1,268	1,200	578	773	780	544
Guatemala ..	37	23	—	55	42	40
Mexico (c) ..	747	758	565	1,162	764	598
United States—						
Metal (d) ..	4,710	4,318	3,840	4,545	4,516	4,750
Peru (f) ..	46	85	76	107	129	126
Japan ..	390	430	483	559	713	869
TOTAL* ..	r 10,000	r 10,000	r 10,000	r 11,000	11,000	12,000

*In the case of South West Africa and Mexico the metal is 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.

(a) Estimated cadmium content of copper-lead-zinc concentrates produced and exported for treatment.

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

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

(d) Including secondary. In 1955 secondary (metal and cadmium content of compounds) amounted to 128 long tons.

(e) Estimate. Source: "Metallgesellschaft".

(f) Including cadmium content of concentrates.

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

EXPORTS OF CADMIUM, ETC.

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Rhodesia and Nyasaland	48	35	6	5	5	35
Canada	867	564	884	918	888	1,045
Australia	201	226	143	60	156	194
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U. (a) ..	251	457	679	707	888	828
France—						
Cadmium (a)	2	1	5	17	23	21
Cadmium sulphide ..	1	1	—	—	5	18
Germany (Federal)—						
Cadmium (a)	57	57	83	106	77	63
Cadmium oxide	16	13	21	32	24	32
Italy—						
Cadmium (a)	70	24	35	23	41	81
Cadmium salts	—	5	1	21	<i>n.a.</i>	<i>n.a.</i>
Netherlands (a)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	99	118	174
Norway	(d) <i>n.a.</i> 89	(d) <i>n.a.</i> 70	133	90	92	86
Poland	<i>n.a.</i>	383	340	342	341	<i>n.a.</i>
U.S.S.R.	210	254	314	899	1,040	1,100
Congo Republic	443	425	576	(d) 500	(d) 500	(d) 300
South West Africa (b) ..	1,267	1,200	578	773	780	544
Mexico (c)	746	695	468	1,094	696	534
United States—						
Metal, alloys, dross, flue dust, etc.	309	259	402	1,093	313	320
Peru	18	49	71	71	93	117
Japan	116	114	57	4	22	255

(a) Including scrap.

(b) Cadmium content of concentrates exported for treatment.

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

(d) Estimated.

IMPORTS OF CADMIUM, ETC.

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom	849	824	1,127	1,389	1,149	1,157
India	16	61	96	(a) 77	(a) 71	(a) 41
Australia (b)—						
Cadmium salts	1	1	2	—	—	—
OTHER COUNTRIES						
Austria	<i>n.a.</i>	<i>n.a.</i>	22	17	23	12
Belgium-Luxemburg						
E.U. (c)	52	73	76	112	122	158
Denmark	<i>n.a.</i>	<i>n.a.</i>	43	43	42	36
France—						
Cadmium (c)	398	438	389	655	641	840
Cadmium sulphide	15	14	14	25	22	18
Germany (Federal)—						
Cadmium (c)	472	521	630	942	797	903
Cadmium oxide	8	12	18	20	31	54
Italy—						
Cadmium (c)	9	—	36	92	58	81
Cadmium sulphide	4	5	5	10	<i>n.a.</i>	<i>n.a.</i>
Netherlands (c)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	102	133	213
Sweden	115	86	137	104	129	102
U.S.S.R.	300	300	300	283	329	329
Yugoslavia	6	4	2	1	1	—
Algeria	1	—	1	1	<i>n.a.</i>	<i>n.a.</i>
United States—						
Cadmium	708	447	731	420	482	499
Flue dust (cadmium content)	625	544	689	831	107	701
Argentina—						
Cadmium and salts	—	1	2	1	5	2
Brazil—						
Cadmium	4	28	30	16	38	34
Cadmium salts	1	—	—	—	—	1

(a) Years ended March 31 following that stated.

(c) Including scrap.

(b) Years ended June 30 of that stated.

CEMENT
PRODUCTION OF CEMENT

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom ..	11,962,000	11,666,000	12,591,000	r13,288,000	14,149,000	14,030,000
Kenya	202,630	236,113	308,002	335,766	324,717	340,905
Nigeria	n.a.	(d) 112,990	120,700	155,000	327,000	419,000
Northern Rhodesia ..	172,000	187,000	134,000	125,000	120,000	117,000
Nyasaland	n.a.	39,000	34,219	30,000	n.a.	n.a.
Southern Rhodesia ..	476,000	596,000	n.a.	n.a.	n.a.	n.a.
Uganda	85,434	104,447	80,332	71,056	64,884	55,000
Canada (a)	5,400,980	5,494,126	5,611,148	5,167,165	5,541,025	6,059,133
Jamaica	r 142,000	r 175,400	193,600	209,069	212,303	196,520
Trinidad	130,800	147,400	177,300	174,400	96,500	162,700
Ceylon	48,195	79,079	93,463	83,623	80,473	83,442
Cyprus	65,607	81,676	81,760	r 83,722	93,098	93,695
Hong Kong	102,679	149,966	139,820	147,620	181,341	208,591
India	5,602,000	6,068,000	6,825,000	7,720,000	8,114,000	8,450,000
Malaya	112,200	108,400	189,500	281,900	327,000	320,000
Pakistan	r 1,078,000	r 1,072,000	986,000	r 1,120,000	1,223,000	1,373,000
Australia	2,285,000	2,417,500	2,574,600	2,747,400	2,813,000	2,887,000
New Zealand	531,000	552,000	553,000	607,000	641,000	621,000
TOTAL	28,400,000	29,290,000	31,000,000	33,000,000	35,000,000	36,000,000
Irish Republic	516,336	r 512,660	618,462	733,602	732,528	873,459
OTHER COUNTRIES						
Albania	69,112	77,000	r 73,000	r 72,000	118,000	(c) 118,000
Austria	2,095,260	2,120,190	2,378,330	2,785,040	3,035,450	3,008,830
Belgium (b)	4,631,000	3,993,276	4,368,480	4,318,620	4,678,792	4,817,296
Bulgaria	866,000	919,000	1,410,000	r 1,560,000	1,721,000	1,863,000
Czechoslovakia	3,614,000	4,045,000	4,669,000	4,971,000	5,259,000	5,620,000
Denmark—						
Portland cement ..	1,046,285	951,000	1,214,073	1,248,173	1,352,952	} 1,602,000
Special cements ..	99,226	100,226	153,983	170,866	206,288	
Finland	930,500	910,800	1,151,400	1,232,915	1,319,900	1,335,900
France—						
Portland cement ..	7,629,554	9,061,905	8,847,996	9,134,976	9,455,689	} (c) 16,433,000
Portland blast furnace cements ..	2,798,109	3,026,101	3,095,017	3,163,445	3,126,525	
Slag cements	24,218	47,209	156,710	30,998	63,140	
Masonry cements ..	746,496	437,341	358,004	375,118	488,174	
Natural cements ..	196,438	355,324	172,606	119,177	173,931	
Special cements ..	1,039,310	664,491	1,147,519	1,111,728	1,831,010	
Germany (Federal)—						
Portland cement ..	13,489,000	13,793,000	16,339,000	17,778,000	19,192,000	20,411,000
Portland blast furnace cements ..	4,289,000	4,479,000	5,130,000	5,849,000	6,515,000	6,701,000
Special cements ..	733,000	811,000	1,022,000	886,000	1,007,000	1,029,000
Germany (East) ..	3,405,000	3,502,000	4,139,000	4,953,000	5,192,000	5,346,000
Greece	1,230,000	1,339,000	1,421,000	1,558,661	1,741,292	1,891,000
Hungary	r 973,657	r 1,281,648	r 1,409,589	1,546,278	1,576,156	1,705,941
Iceland	—	32,000	77,000	72,000	74,000	96,000
Italy	r11,880,095	r12,566,394	r14,105,441	r15,683,552	17,698,986	19,838,415
Luxemburg	187,000	192,509	188,977	206,395	227,520	226,367
Netherlands	1,229,000	1,344,000	1,574,400	1,769,100	1,872,612	1,983,000
Norway	1,000,953	1,014,939	1,112,784	1,132,962	1,254,266	1,389,587
Poland	4,425,000	4,978,000	5,233,000	6,495,000	7,248,000	7,422,000

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

(b) Excluding natural cement.

(c) United States Bureau of Mines' estimate.

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

(e) Excluding masonry cement.

PRODUCTION OF CEMENT (cont.)

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Portugal	963,695	1,008,009	1,014,731	1,182,826	1,224,717	1,378,759
Roumania	2,317,390	2,531,043	2,805,501	3,006,200	3,255,538	3,434,129
Saar	345,000	288,000	307,000	(c)	(c)	(c)
Spain—						
Portland cement	4,046,340	4,306,789	4,565,928	4,693,092	5,603,290	} 6,342,000
Natural cement	469,326	495,031	500,475	490,495	518,953	
Other cements	369,954	428,662	523,108	390,417	285,762	
Sweden—						
Portland cement	2,338,811	2,357,810	2,714,338	2,745,842	} 2,964,000	} 3,006,000
Other cements	72,749	112,263	102,677	127,277		
Switzerland	2,471,677	2,150,637	2,640,792	2,988,196	3,544,292	3,667,018
U.S.S.R.	28,440,000	32,780,000	38,171,000	r 44,801,000	50,194,000	56,394,000
Yugoslavia	1,952,000	1,936,000	2,185,000	2,360,000	2,299,000	2,478,000
Algeria	699,700	808,900	941,500	1,045,000	1,054,800	640,000
Angola	127,417	163,203	152,349	158,603	154,051	166,721
Cameroun	11,000	11,000	(e) 11,000	—	—	—
Canary Islands	1,678	5,493	49,389	68,239	115,284	(h)
Congo Republic	457,670	385,260	339,925	(f) 200,000	140,000	(f) 150,000
Egypt	1,443,000	r 1,487,000	r 1,756,000	r 2,015,000	2,107,000	2,260,000
Ethiopia (d)	22,100	31,000	24,829	31,304	32,647	40,000
Morocco (Southern)	428,400	396,200	493,300	570,700	620,400	687,200
Mozambique	164,609	177,604	209,996	219,000	208,828	176,335
Senegal	156,000	147,000	168,000	165,100	179,100	180,300
Sudan	59,000	88,000	98,000	119,000	82,000	84,000
Tunisia	394,800	339,500	434,900	398,600	353,500	356,819
South Africa	2,485,416	2,678,635	2,605,000	2,662,000	2,557,420	2,616,870
Cuba	655,000	710,000	653,000	n.a.	n.a.	n.a.
Dominican Republic	275,974	265,324	186,520	166,984	233,023	253,000
Guatemala (f)	92,000	120,000	93,000	96,000	104,000	98,000
Haiti	30,100	36,549	38,067	52,130	49,104	55,712
Honduras	—	—	10,000	31,000	36,300	54,060
Mexico	2,519,141	2,498,642	2,666,064	3,040,339	2,987,149	3,299,000
Nicaragua	42,358	39,293	36,919	31,787	38,402	45,181
Panama Republic	78,000	66,000	96,000	107,000	112,000	106,000
Salvador	86,740	85,788	81,763	84,970	73,568	64,082
United States (a)—						
Portland cement	50,092,600	52,282,600	56,918,800	53,547,900	54,404,800	56,481,900
Prepared masonry cement (b)	2,467,700	2,410,600	2,720,100	2,442,800	2,398,500	2,518,500
Natural, slag and hydraulic lime cements	106,000	87,300	73,500	95,300	37,800	73,900
Argentina	2,327,000	2,432,000	2,330,000	r 2,599,600	2,856,900	2,857,000
Bolivia	23,284	28,454	28,990	12,166	43,809	48,646
Brazil	3,340,037	3,729,742	3,780,115	4,403,623	4,636,341	4,992,000
Chile	714,000	715,000	r 819,788	r 822,223	869,325	1,129,000
Colombia	1,192,154	1,194,100	1,326,335	1,363,048	1,542,300	1,718,393
Ecuador	152,590	157,307	154,449	197,640	215,704	191,005
Paraguay	12,131	7,287	7,100	14,000	16,000	17,000
Peru	536,528	595,387	573,000	592,000	590,218	689,503
Uruguay	410,000	426,000	415,000	408,000	383,000	368,000
Venezuela	1,719,723	1,589,998	1,842,116	1,463,523	1,489,526	1,485,053
Afghanistan (g)	—	—	33,000	36,000	40,000	(e) 69,000
Burma	34,838	30,021	35,630	44,194	38,945	52,440
China	6,750,000	9,200,000	12,080,000	12,500,000	(e) 9,800,000	(e) 8,900,000
Formosa	618,009	994,225	1,055,435	1,160,000	1,480,000	1,840,000
Indonesia	247,000	294,000	339,000	381,000	438,000	503,000

(a) Including Puerto Rico.

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

(c) Included with Germany (Federal).

(d) Years ended September 10 of that stated.

(e) United States Bureau of Mines' estimate.

(f) Estimated.

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

(h) Included with Spain.

PRODUCTION OF CEMENT (cont.)

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Iran (c)	308,444	403,642	569,668	784,666	733,000	(a) 730,000
Iraq	(b) 658,833	(b) 650,120	(a) 600,000	786,836	906,160	878,247
Israel	707,000	701,681	768,644	792,785	833,000	939,000
Japan	14,940,000	14,748,000	16,996,000	22,183,000	24,243,000	28,331,000
Jordan	105,478	112,365	108,529	162,206	219,602	231,561
Korea (South)	90,524	290,983	352,204	424,052	514,575	777,270
Korea (North)	881,000	1,244,000	1,896,000	2,249,000	2,226,000	2,338,000
Lebanon	551,427	498,510	731,698	840,254	860,639	609,644
Philippine Republic	502,959	633,177	715,677	782,461	1,002,951	945,605
Saudi Arabia	—	n.a.	n.a.	n.a.	103,000	150,000
Syria	309,976	402,000	441,000	481,000	531,000	590,000
Thailand	396,000	449,000	502,000	518,000	797,000	950,000
Turkey	1,241,278	1,492,562	1,706,659	2,005,611	1,995,971	2,279,961
Vietnam (North)	162,500	297,000	375,200	399,300	446,000	(a) 460,000
TOTAL (a)	215,000,000	229,000,000	259,000,000	278,000,000	296,000,000	317,000,000
WORLD'S TOTAL (a)	243,000,000	258,000,000	290,000,000	311,000,000	331,000,000	353,000,000

(a) Estimated.

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

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

CHINA CLAY
PRODUCTION OF CHINA CLAY

Long tons

Producing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom	1,223,808	1,212,981	1,312,353	1,638,282	1,717,669	1,463,602
Kenya	1,140	1,185	1,143	1,036	729	1,155
Nigeria	18	75	5	4	—	5
Southern Rhodesia	—	—	—	5,905	18,202	—
Swaziland	—	—	—	—	52	2,448
Tanganyika	—	98	77	219	155	156
Hong Kong	6,961	7,621	7,256	6,663	8,430	6,374
India	180,513	182,136	250,588	344,000	372,914	378,306
Malaya	1,510	1,200	1,282	1,223	1,571	3,459
Australia	43,486	37,099	36,974	48,195	47,181	36,070
OTHER COUNTRIES						
Austria (crude)	287,632	295,523	292,883	317,991	338,461	331,080
Czechoslovakia	251,000	255,000	257,000	269,000	295,000	314,000
Denmark—						
Crude	3,629	6,490	(c) 6,113	(c) 6,205	(c) 7,649	n.a.
Washed and pressed	3,992	5,532	(c) 4,331	(c) 4,826	(c) 4,169	n.a.
Washed waste	5,695	4,099	(c) 5,964	(c) 5,774	(c) 7,562	n.a.
France	128,000	136,000	142,000	134,000	143,000	n.a.
Germany (Federal)	325,478	323,559	301,678	304,162	410,000	444,000
Greece	5,187	17,000	2,500	26,000	24,800	n.a.
Hungary	21,261	32,100	32,779	42,803	41,694	n.a.
Italy—						
Crude	60,167	59,492	r 57,120	85,444	84,793	n.a.
Kaolinic earth	46,111	54,480	r 39,901	45,312	28,819	n.a.
Portugal—						
Crude	20,674	34,066	16,759	} 46,126	48,894	42,803
Washed	26,579	24,735	26,870			
Spain (crude)	83,968	89,460	114,133	110,589	124,889	n.a.
Sweden (b)	(d) 771	(d) 907	19,375	r 26,307	26,700	n.a.
Egypt	n.a.	8,964	11,041	20,000	27,000	n.a.
Malagasy Republic	19	—	—	—	—	—
Mozambique	—	49	118	113	—	—
South Africa	14,128	23,743	17,887	26,073	23,637	(b) 26,495
United States (a)	1,949,719	1,984,094	2,263,816	2,437,903	2,446,264	2,676,926
Argentina	22,031	18,684	28,000	n.a.	n.a.	n.a.
Chile	n.a.	n.a.	n.a.	8,000	14,000	29,000
Colombia	6,603	4,000	15,000	20,000	20,000	70,000
Peru	65	48	n.a.	592	459	344
Iran (e)	n.a.	463	2,160	4,200	3,000	n.a.
Japan	15,655	21,035	20,537	20,943	29,844	70,725
Korea (South)	6,517	21,224	42,137	50,422	50,369	37,590

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

- (a) Sold or used by producers. (c) Production in major establishments only.
 (b) Sales (d) Washed.
 (e) Years ended March 20 of year following that stated.

EXPORTS OF CHINA CLAY

Long tons

Exporting Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom	774,861	754,153	834,903	1,003,923	1,117,440	1,100,672
Tanganyika	—	5	42	70	74	91
Hong Kong	5,268	4,920	4,292	7,474	5,805	4,756
India	243	283	302	(b) 217	(b) 744	(b) 474
Malaya	175	81	83	97	79	70
OTHER COUNTRIES						
Austria	34,723	31,549	27,190	31,712	35,091	38,465
Belgium-Luxemburg						
E.U.	16	2	29	76	133	116
Czechoslovakia	105,000	112,000	131,000	142,000	148,000	150,000
Denmark	1,543	318	1,370	1,294	1,249	1,068
France	8,172	8,368	21,969	39,209	45,559	51,523
Germany (Federal)	22,325	23,607	20,372	26,595	33,300	37,793
Greece	r —	r 886	r 1,772	r 1,842	3,407	n.a.
Italy	206	322	37	135	93	108
Netherlands	(a) 474	(a) 545	(a) 558	597	226	44
Portugal	18,887	15,252	18,670	18,152	19,170	15,490
Spain	4,343	3,098	3,731	6,837	13,717	9,119
Sweden	—	—	—	18	159	10
Morocco	n.a.	25	—	—	7	—
United States	48,999	59,303	66,727	71,397	88,201	106,152
Argentina	59	197	198	—	—	—
Brazil	—	226	10	108	332	98
Japan	205	1,166	196	1,385	2,390	5,142
Korea (South)	n.a.	13,387	5,098	12,117	12,063	7,619

(a) Including pipe clay.

Years ended March 31 following that stated.

IMPORTS OF CHINA CLAY

Long tons

Importing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Canada	114,639	116,278	121,194	119,273	129,879	139,688
Hong Kong	71	80	77	1,019	167	349
India	4,284	5,809	4,288	(d) 6,710	(d) 10,444	(d) 6,485
Malaya	24	31	122	119	212	237
Pakistan	2,834	4,040	2,424	3,737	5,631	9,065
Australia	6,631	2,502	14,654	9,093	14,890	12,389
New Zealand	1,051	1,261	1,368	1,914	1,978	1,693
OTHER COUNTRIES						
Austria	3,699	2,279	6,159	6,745	7,173	8,546
Belgium-Luxemburg E.U.	52,213	39,907	40,938	45,711	43,810	45,537
Denmark	30,398	25,984	21,175	28,261	30,152	30,932
Finland	58,683	61,870	57,007	91,471	101,276	105,865
France	85,320	99,374	90,984	122,712	125,386	149,566
Germany (Federal)	173,210	184,706	229,858	267,868	287,664	294,688
Italy	103,133	94,361	110,905	158,135	183,183	202,408
Netherlands	(b) 80,488	(b) 78,020	(b) 98,291	111,578	108,386	100,105
Norway	37,037	33,874	38,887	47,152	56,253	48,384
Poland	n.a.	65,000	62,800	70,000	72,600	n.a.
Portugal	162	144	133	169	802	222
Spain	594	1,984	571	3,231	3,463	7,242
Sweden	78,588	80,882	94,403	116,392	121,770	128,948
Yugoslavia	8,053	9,006	6,402	6,883	8,386	16,944
Algeria	3,812	3,306	3,220	3,700	n.a.	n.a.
Angola	20	13	—	17	40	37
Morocco	1,803	1,724	2,023	2,395	1,885	1,446
Mozambique	15	19	33	19	38	n.a.
South Africa (a) ..	2,411	1,860	3,739	3,678	3,911	n.a.
Tunisia	18	13	n.a.	n.a.	n.a.	n.a.
Costa Rica	n.a.	n.a.	n.a.	1,822	381	855
Guatemala	n.a.	n.a.	2,686	2,369	1,219	241
Mexico	2,903	3,840	9,904	11,345	7,744	8,299
United States	119,917	120,296	126,014	113,677	118,251	99,954
Argentina	2,500	1,745	637	5,121	6,113	5,330
Brazil	219	40	107	122	399	195
Chile	30	124	146	63	n.a.	n.a.
Colombia	197	586	678	762	2,205	3,078
Ecuador	5	6	55	n.a.	35	29
Peru	680	492	532	478	401	552
Uruguay	1,042	798	1,969	2,276	n.a.	n.a.
Venezuela	n.a.	n.a.	2,875	2,914	4,135	6,306
Indonesia	976	753	909	1,640	2,722	n.a.
Iran (c)	60	264	n.a.	186	n.a.	n.a.
Japan	15,655	14,277	14,811	31,687	36,178	35,407
Philippine Republic	642	765	1,930	3,075	2,847	1,331
Turkey	208	110	838	15	4	1

(a) Including Cornish or China stone.

(c) Years ended March 20 following that stated.

(b) Including pipe clay.

(d) Years ended March 31 following that stated.

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

Long tons

Producing Country	Estimated Cr ₂ O ₃ content						1962	1961	1960	1959	1958	1957
	1957	1958	1959	1960	1961	1962						
COMMONWEALTH COUNTRIES												
Sierra Leone ..	15,716	14,236	17,854	5,378	(c) 8,988	(c) 9,350	6,000	6,000	7,000	2,000	4,000	4,000
Southern Rhodesia ..	583,996	552,540	484,918	596,791	527,581	453,294	280,000	265,000	233,000	286,000	253,000	218,000
Cyprus (a) ..	6,200	11,274	13,427	19,977	17,698	6,435	2,869	5,158	6,337	9,000	8,000	3,000
India ..	78,542	62,947	83,871	98,531	45,201	47,491	37,700	30,200	40,300	47,300	21,700	22,800
Pakistan (j) ..	16,173	23,767	16,023	18,094	25,103	28,345	7,800	12,000	8,000	9,000	12,000	14,000
Australia ..	3,049	776	120	529	—	—	1,420	386	60	265	—	—
TOTAL	703,676	665,540	616,193	r 739,300	625,000	545,000						
OTHER COUNTRIES												
Albania ..	164,648	198,000	243,100	281,500	230,000	250,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Greece ..	71,447	64,479	64,262	44,969	76,624	78,750	32,000	29,000	30,000	20,000	35,000	37,000
U.S.S.R. (e) ..	760,000	790,000	840,000	902,000	906,000	1,129,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Yugoslavia ..	118,367	111,775	105,326	98,993	106,418	95,512	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Egypt ..	102	—	246	295	1,366	(e) 490	n.a.	—	n.a.	n.a.	n.a.	n.a.
Malagasy Republic ..	—	—	—	—	10,300	19,000	—	—	—	—	—	—
South Africa ..	655,014	621,483	669,534	759,751	883,683	898,369	289,000	280,000	300,000	340,000	400,000	400,000
Cuba ..	150,684	(e) 73,900	(h) 39,046	(h) 29,262	(e) 24,600	(e) 20,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Guatemala ..	(b) 1,000	1,044	404	178	100	38	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
United States (f) ..	148,354	128,388	(g) 94,113	(g) 95,282	(g) 73,000	—	57,858	51,227	36,000	37,000	28,000	—
Argentina ..	44	148	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Brazil ..	7,811	5,207	6,126	5,577	15,212	24,447	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Colombia ..	—	—	—	—	179	138	—	—	—	—	—	—
Iran (d) ..	(c) 37,584	47,891	65,292	67,000	72,600	108,000	18,000	23,000	31,000	32,000	35,000	52,000
Japan ..	45,728	41,210	56,766	66,423	69,063	57,272	15,500	14,500	19,800	23,400	24,400	20,300
Philippine Republic ..	714,048	409,735	643,166	722,840	630,189	522,896	255,000	139,000	221,000	248,000	218,000	178,000
Turkey ..	899,740	512,674	381,539	472,045	(i) 396,369	b 460,000	432,000	246,000	183,000	221,000	190,000	220,000
New Caledonia ..	63,241	46,700	43,271	38,542	36,083	15,211	33,000	24,000	22,000	20,000	19,000	8,000
TOTAL	3,800,000	3,100,000	3,300,000	3,600,000	3,500,000	3,700,000						
WORLD'S TOTAL	4,500,000	3,700,000	3,900,000	4,300,000	4,100,000	4,200,000						

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

(a) Figures relate to saleable production. (b) Estimated.

(c) Years ended March 20 following that stated. Probably partial production only.

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

(e) Shipments from mine.

(f) Imports into the United States.

(g) Including saleable production only of metallurgical chromite.

(h) West Pakistan.

(i) Exports.

(j) United States Bureau of Mines' estimate.

EXPORTS OF CHROME ORE, ETC.

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Chromium metal ..	571	466	994	1,025	315	267
Rhodesia & Nyasaland—						
Ore	625,775	367,037	492,304	482,715	424,993	385,430
Ferro-chrome	8,108	6,384	9,651	9,232	8,920	8,078
Sierra Leone—						
Ore	16,378	11,211	5,011	14,719	8,988	9,357
Canada—						
Ferro-chrome	9,225	9,339	6,709	4,117	1,466	5,895
Cyprus—						
Ore and concentrates ..	5,070	11,840	12,176	14,020	18,820	9,526
India—						
Ore	41,164	48,624	80,362	(a) 29,861	(a) 41,034	(a) 17,241
Pakistan—						
Ore	12,805	12,447	13,775	10,880	12,942	9,648
OTHER COUNTRIES						
Austria—						
Ore	1,148	1,445	158	246	623	632
France—						
Chromium metal ..	152	639	580	527	409	189
Ferro-chrome	11,887	10,623	21,000	18,526	16,218	15,070
Germany (Federal)—						
Ore	577	569	574	521	7,190	778
Chromium metal ..	519	443	260	143	174	47
Greece—						
Ore	44,379	29,208	20,783	28,595	27,945	19,228
Italy—						
Ferro-chrome	3,407	5	8,743	7,488	10,797	2,276
Netherlands—						
Ore	1	73	104	289	412	1,103
Norway—						
Ferro-chrome	19,338	14,307	30,604	34,097	21,252	16,797
Ferro-silico-chrome ..	<i>n.a.</i>	<i>n.a.</i>	2,256	6,950	3,158	2,631
Sweden—						
Ore	2,821	—	—	3	—	—
Ferro-chrome	9,263	9,871	15,597	15,592	18,656	17,057
U.S.S.R.—						
Ore	254,700	211,600	267,700	420,300	431,000	464,500
Ferro-chrome	16,600	19,700	18,400	21,800	21,400	15,700
Yugoslavia—						
Ore and concentrates ..	35,580	14,180	24,507	19,675	5,538	29,668
Ferro-chrome	2,645	7,611	7,871	8,822	7,303	5,763
Egypt—						
Ore	280	5	5	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Malagasy Republic—						
Ore	—	—	—	—	4,925	18,706
South Africa—						
Ore	631,836	540,870	599,513	743,827	846,685	779,084
Cuba—						
Ore	111,719	54,349	25,530	24,400	29,298	<i>n.a.</i>
Guatemala—						
Ore	726	—	445	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
United States—						
Ore	747	640	9,893	4,629	9,343	2,398
Chromium metal ..	10	53	10	56	13	16
Ferro-chrome	4,049	1,714	5,470	13,918	7,004	2,745
Iran (b)—						
Ore	37,584	36,642	44,395	36,789	66,601	<i>n.a.</i>
Japan—						
Ferro-chrome	5,223	4,081	17,273	14,533	15,911	12,288

(a) Years ended March 31 following that stated.

(b) Years ended March 20 following that stated.

EXPORTS OF CHROME ORE, ETC. (cont.)

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Philippine Republic— Ore and concentrates ..	627,983	390,560	735,250	783,346	621,466	435,306
Turkey— Ore	562,102	507,854	301,050	380,130	382,541	344,054
New Caledonia— Ore	60,048	41,096	44,041	44,154	21,750	14,773

IMPORTS OF CHROME ORE, ETC.

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore	187,747	178,236	165,092	292,169	256,918	116,341
Ferro-chrome	29,192	25,764	31,901	46,606	42,358	24,510
Ferro-silicon-chrome	2,097	1,744	1,623	3,595	2,984	3,043
Canada—						
Ore	99,512	34,051	43,462	52,699	63,632	64,258
India—						
Ore	—	—	—	(a) 4,101	(a) 2,805	(a) 1,500
Ferro-chrome	259	131	271	(a) 410	(a) 803	(a) 656
Australia—						
Ore	8,653	8,772	6,381	21,259	17,049	8,538
Ferro-chrome	1,776	1,892	2,824	5,714	4,133	1,974
OTHER COUNTRIES						
Austria—						
Ore	105,413	54,849	52,290	58,899	82,060	61,551
Ferro-chrome	9,218	5,927	11,254	14,009	11,660	9,523
Belgium-Luxemburg						
E.U.—						
Ore	1,220	472	491	697	1,107	449
Chromium metal	55	8	6	14	9	14
Ferro-chrome and silico-chrome	1,834	2,031	2,759	4,258	4,161	4,672
Denmark—						
Ferro-chrome	132	236	321	450	437	413
Finland—						
Ferro-chrome	934	815	1,109	1,402	1,649	1,153
France—						
Ore	126,604	103,969	151,202	185,677	194,624	158,279
Ferro-chrome	2	19	12	285	361	942
Germany (Federal)—						
Ore	173,712	255,249	263,392	355,881	319,040	224,520
Chromium metal	4	6	8	40	48	38
Germany (East)—						
Ore (b)	23,103	19,815	21,441	25,630	25,740	34,310
Hungary—						
Ore	11,477	31,543	21,470	25,328	28,899	26,323
Ferro-chrome	2,207	1,754	2,130	2,260	3,419	4,035
Italy—						
Ore	32,565	19,821	53,348	69,885	74,341	55,611
Chromium metal	6	33	5	19	19	18
Ferro-chrome	5,870	6,132	8,359	15,091	14,157	10,217
Netherlands—						
Ore	94	569	708	1,235	844	2,302
Chromium metal	n.a.	n.a.	n.a.	5	10	14
Ferro-chrome	186	244	290	499	302	438
Norway—						
Ore	59,993	46,293	72,432	92,332	99,934	49,946
Poland—						
Ore	n.a.	63,000	60,900	99,100	123,000	n.a.
Spain—						
Ore	n.a.	n.a.	n.a.	n.a.	16,280	19,348
Ferro-chrome	203	402	950	581	1,314	1,656
Sweden—						
Ore	87,283	59,545	108,768	138,723	105,184	104,136
Chromium metal	n.a.	n.a.	50	115	75	32
Ferro-chrome	5,430	2,398	6,318	13,164	7,288	3,060
Yugoslavia—						
Ore	12,005	32,070	4,923	22,715	15,638	36,282
Mexico—						
Ferro-chrome	n.a.	n.a.	n.a.	222	674	630

(a) Years ended March 31 following that stated.

 (b) Cr₂O₃ content.

IMPORTS OF CHROME ORE, ETC. (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
United States—						
Ore	2,038,144	1,128,069	1,387,094	1,238,055	1,186,724	1,290,692
(Cr ₂ O ₃ content)	878,118	486,113	594,163	r 509,881	505,233	547,832
Ferro-chrome						
(Cr content)	27,598	14,255	57,202	30,523	16,694	22,144
Metal and alloys	1,209	2,077	2,558	811	618	578
Brazil—						
Ore	—	—	14	8,102	1,719	4,148
Ferro-chrome	83	250	269	585	881	895
Chile—						
Ferro-chrome	56	19	5	25	n.a.	n.a.
Japan—						
Ore	245,797	73,414	256,852	274,723	319,367	250,856
Ferro-chrome	84	51	—	2	1,006	530

COAL, COKE AND BY-PRODUCTS

PRODUCTION OF COAL (Including Brown Coal and Lignite)

Long tons

Producing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Great Britain—						
Mined—						
Anthracite	3,376,200	3,179,300	2,949,700	2,875,200	2,779,800	3,136,200
Bituminous	206,682,700	198,295,800	192,323,400	183,176,300	179,157,500	186,999,000
Opencast—						
Anthracite	620,600	765,900	656,100	719,800	767,400	766,100
Bituminous	12,948,300	13,581,100	10,177,000	6,832,900	7,760,600	6,534,800
Northern Ireland—						
Bituminous	3,508	2,971	5,362	4,965	12,527	12,165
Nigeria—						
Sub-bituminous	815,271	924,419	741,757	561,995	597,365	623,948
Southern Rhodesia—						
Bituminous	3,791,793	3,479,661	3,699,277	3,503,103	3,024,371	2,781,230
Swaziland—						
Anthracite	—	—	1,423	11,469	964	—
Tanganyika—						
Bituminous	1,046	1,109	1,739	2,264	2,302	3,024
Canada—						
Bituminous	8,081,020	6,918,115	6,201,303	6,517,646	6,095,762	5,831,511
Sub-bituminous	1,687,144	1,505,040	1,548,110	1,375,515	1,215,804	1,336,760
Lignite	2,007,868	2,011,764	1,738,732	1,938,212	1,972,188	2,014,559
India—						
Bituminous	43,504,996	45,340,447	47,066,109	} 51,810,000	{ 55,180,000	60,371,000
Lignite	3,674	6,465	8,213			62,758	206,569
Pakistan—						
Lignite	516,000	597,000	723,000	818,000	906,000	974,000
Malaya—						
Sub-bituminous	152,711	66,452	75,634	6,847	—	—
Australia—						
Bituminous and semi-anthracite	18,299,901	18,673,000	18,630,000	20,691,000	22,050,000	22,108,000
Sub-bituminous	1,619,195	1,769,049	1,668,000	1,878,000	1,956,000	2,400,000
Brown coal	10,740,989	11,643,629	13,034,605	14,967,202	16,279,569	17,137,000
New Zealand—						
Anthracite	1,700	1,975	1,919	504	169	653
Bituminous	830,290	836,684	838,990	799,621	756,363	700,427
Sub-bituminous	1,602,584	1,702,707	1,798,352	2,051,703	2,011,546	1,700,856
Lignite	177,889	178,668	170,333	160,215	156,647	148,260
TOTAL	317,466,000	311,481,000	304,059,000	300,700,000	302,740,000	315,787,000
Irish Republic—						
Anthracite including dust	163,265	139,215	152,584	128,170	114,985	116,934
Semi-bituminous and other coal	73,553	61,618	77,773	76,166	82,595	68,086
OTHER COUNTRIES						
Albania—						
Brown coal and lignite	232,010	252,000	284,000	285,000	290,000	300,000
Austria—						
Bituminous	149,933	138,820	131,865	129,951	104,540	97,786
Brown coal	6,768,660	6,391,039	6,122,495	5,879,024	5,571,311	5,621,385
Belgium—						
Anthracite	} 28,627,014	26,635,000	r6,302,530	5,800,930	5,433,390	} 20,868,807
Biruminous			r16094820	16,313,510	15,762,410	

PRODUCTION OF COAL (cont.)

Long tons

Producing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Bulgaria—						
Anthracite and bituminous	379,000	374,000	490,000	560,000	580,000	620,000
Brown coal and lignite..	11,322,000	12,155,000	14,600,000	16,310,000	17,760,000	20,110,000
Czechoslovakia—						
Bituminous	23,799,000	23,554,000	24,727,000	25,800,000	25,819,000	26,720,000
Brown coal	48,013,000	53,453,000	50,305,000	54,599,000	61,088,000	64,778,000
Lignite	2,198,000	2,487,000	2,550,000	2,882,000	3,184,000	3,609,000
Denmark—						
Lignite	2,520,000	2,406,000	2,268,000	2,273,000	2,129,000	1,993,000
France—						
Anthracite and bituminous	55,901,925	56,814,522	56,697,049	55,082,224	51,535,660	51,532,000
Lignite	2,257,166	2,281,539	2,140,170	2,242,583	2,860,683	2,836,000
Germany—						
Federal Republic (b)—						
Anthracite	6,622,603	6,903,415	7,002,177	6,680,378	7,135,369	7,942,384
Bituminous (a) ..	124,477,081	123,633,000	116,654,000	133,408,633	133,396,479	131,009,800
Pechkohle	1,781,942	1,748,717	1,751,484	1,754,782	1,735,060	1,732,211
Brown coal	95,557,192	92,240,870	92,190,421	94,620,781	95,660,108	99,581,347
East Germany—						
Bituminous	2,710,000	2,858,000	2,796,000	2,678,000	2,629,000	2,534,000
Brown coal	209,237,000	211,574,000	211,391,000	221,904,000	233,184,000	243,091,000
Greece—						
Lignite	982,000	1,174,000	1,495,600	2,453,000	2,464,000	2,547,000
Hungary—						
Bituminous	2,241,000	2,584,884	2,691,045	2,802,465	3,024,000	3,288,000
Brown coal	15,289,000	17,498,271	18,255,533	19,139,598	20,065,000	20,322,000
Lignite	3,431,000	3,782,790	4,009,631	4,162,810	4,642,000	4,588,000
Italy—						
Anthracite	54,546	43,032	30,743	19,228	23,620	15,905
Bituminous	952,916	669,508	696,251	706,059	706,264	665,586
Brown coal	387,845	817,772	1,202,832	781,887	1,501,370	1,747,504
Netherlands—						
Bituminous	11,196,165	11,692,335	11,789,011	12,301,091	12,421,637	11,390,000
Brown coal	283,395	251,323	195,625	3,908	—	—
Poland—						
Bituminous	92,609,500	93,480,900	97,500,000	102,000,000	105,000,000	108,000,000
Brown coal	5,862,000	7,421,600	9,200,000	9,200,000	10,100,000	10,900,000
Portugal—						
Anthracite	490,897	558,190	518,876	428,000	447,141	398,714
Brown coal	180,782	153,892	156,939	154,000	155,613	150,182
Roumania—						
Anthracite and bituminous ..	247,000	295,000	295,000	325,000	340,000	370,000
Lignite	2,851,975	2,901,103	3,228,000	3,095,000	3,196,000	3,625,000
Brown coal	3,845,000	4,074,000	4,328,000	4,614,000	5,030,000	5,443,000
Saar—						
Bituminous	16,195,000	16,164,000	15,972,000	(c)	(c)	(c)
Spain—						
Anthracite	2,793,701	3,071,448	2,578,866	2,474,638	2,555,714	} 12,466,000
Bituminous	10,916,852	11,144,956	10,748,167	11,091,054	11,022,547	
Lignite	2,478,825	2,629,434	2,069,094	1,734,306	2,056,400	
Spitzbergen—						
Bituminous						
Norwegian mines ..	378,101	283,414	247,704	397,240	363,224	465,380
Russian mines (d) ..	387,909	379,751	450,694	472,808	391,642	361,007

(a) Including Stockheim hard coal.

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

 Hard coal: 1957—1,162,243; 1958—935,634; 1959—798,157; 1960—903,590;
 1961—814,620; 1962—705,739.

 Brown coal: 1957—60,979; 1958—44,390; 1959—38,894; 1960—76,638; 1961—71,828;
 1962—70,788.

(c) Included with Germany (Federal).

(d) Exports.

PRODUCTION OF COAL (cont.)

Long tons

Producing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES (cont.)						
Sweden—						
Bituminous	299,388	313,719	267,921	246,565	197,000	137,000
U.S.S.R.—						
Bituminous and anthracite	322,000,000	347,000,000	359,600,000	369,010,000	370,970,000	376,000,000
Lignite	134,000,000	141,000,000	138,900,000	c132,600,000	c127,440,000	c133,000,000
Yugoslavia—						
Bituminous	1,207,000	1,188,000	1,276,000	1,263,000	1,292,000	1,169,000
Brown coal and lignite	16,435,000	17,598,000	19,498,000	20,092,000	22,401,000	23,133,000
Algeria (Sahara)—						
Bituminous and anthracite	232,237	150,713	119,784	116,283	76,319	52,000
Congo Republic—						
Bituminous	426,223	289,675	262,616	r 160,000	71,621	75,000
Malagasy Republic—						
Bituminous	1,110	—	—	—	—	—
Morocco—						
Anthracite	512,771	501,944	457,324	405,983	403,700	360,000
Mozambique—						
Bituminous	265,711	243,674	252,569	265,367	315,791	292,903
South Africa—						
Anthracite and bituminous	34,219,253	36,499,340	35,876,381	37,570,611	38,939,978	40,623,162
Greenland—						
Bituminous	17,000	31,000	27,000	28,000	31,000	26,000
Mexico—						
Bituminous	1,398,355	1,447,477	r 1,561,000	1,748,000	1,789,000	1,863,000
United States—						
Anthracite	22,623,501	18,902,805	18,436,862	16,801,287	15,577,178	15,083,612
Bituminous	437,586,226	364,302,241	365,397,000	368,539,000	357,105,000	374,189,000
Lignite	2,327,984	2,166,997	2,482,000	2,452,000	2,694,000	2,728,000
Argentina—						
Lignite	205,424	256,862	295,800	266,900	330,000	281,200
Brazil—						
Bituminous and lignite	2,040,654	2,204,393	2,293,018	2,293,287	2,351,863	2,468,371
Chile—						
Bituminous	r 2,046,453	r 1,946,863	r 1,861,853	r 1,447,728	1,735,945	1,825,503
Columbia—						
Bituminous	2,539,112	2,200,000	2,500,000	2,700,000	2,600,000	3,000,000
Peru—						
Anthracite	16,978	105,072	} 170,000	159,000	164,000	160,276
Bituminous	121,360	114,781				
Venezuela—						
Bituminous	34,022	35,956	33,452	34,730	30,134	27,002
Afghanistan—						
Bituminous	27,000	33,213	36,000	46,000	67,000	(a) 66,000
Burma	738	—	1,369	112	1,586	2,515
China	128,000,000	270,000,000	342,300,000	413,000,000	(a)370,000,000	(a)370,000,000
Formosa—						
Bituminous	2,870,028	3,131,172	3,506,856	3,899,373	4,169,663	4,481,663
Indonesia—						
Bituminous	705,958	r 593,902	627,551	r 647,717	540,449	464,000
Iran (b)—						
Bituminous	108,461	181,379	232,799	230,000	249,000	200,000
Japan—						
Anthracite	1,653,000	1,618,000	1,590,000	1,774,000	1,853,000	1,843,000
Bituminous	49,261,000	47,266,000	43,387,000	47,018,000	50,481,000	51,695,000
Lignite	1,636,219	1,557,448	1,445,501	1,386,246	1,288,342	1,093,000

(a) Estimated.

(b) Years ended March 20 following that stated.

(c) Owing to revised method of calculation, not strictly comparable with earlier years. Under previous method of calculation 1960 production equalled 136,090,000 long tons.

PRODUCTION OF COAL (cont.)

Long tons

Producing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Korea (South)—						
Anthracite	2,402,661	2,628,706	4,071,083	5,265,500	5,791,400	7,313,000
Korea (North)	^a 5,000,000	6,773,000	8,714,000	10,452,000	11,604,000	13,000,000
Philippine Republic—						
Bituminous	188,132	106,078	137,644	145,522	149,922	160,404
Thailand—						
Lignite	98,000	123,000	107,808	106,081	106,684	133,089
Turkey—						
Bituminous	6,176,017	6,446,963	6,420,846	6,207,446	6,281,000	(^a)6,348,000
Lignite	3,579,449	3,760,172	3,605,103	3,356,845	3,713,000	(^a)3,888,000
Vietnam (North)—						
Anthracite	1,068,000	1,473,000	2,167,000	2,534,000	2,767,000	(^a)2,600,000
Vietnam (South)—						
Anthracite	12,175	20,384	20,000	27,000	56,000	70,000
TOTAL	1,980,000,000	2,090,000,000	2,180,000,000	2,280,000,000	2,260,000,000	2,310,000,000
WORLD'S TOTAL ..	2,300,000,000	2,400,000,000	2,480,000,000	2,580,000,000	2,560,000,000	2,630,000,000

(^a) United States Bureau of Mines' estimate.

PRODUCTION OF COKE

Long tons

Producing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Great Britain—						
Gas-works—coke (a) ..	12,015,000	11,145,000	10,070,000	9,866,000	9,820,000	9,729,000
breeze (a) ..	2,712,000	2,634,000	2,470,000	2,474,000	2,343,000	2,377,000
Coke-ovens—coke ..	20,492,000	18,452,000	17,047,000	18,834,000	17,782,000	15,536,000
breeze ..	1,364,000	1,216,000	1,121,000	1,294,000	1,263,000	1,175,000
Northern Ireland—						
Gas works ..	115,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Southern Rhodesia ..						
	226,977	186,149	291,879	226,796	(e) 172,691	(e) 107,062
Canada—						
Gas-works—coke ..	44,037	47,886	3,656,145	3,457,859	3,481,737	3,590,870
breeze ..						
Coke-ovens—coke ..	3,633,821	3,062,029				
breeze ..						
India—						
Gas-works ..	112,692	122,470	127,377	125,524	125,080	122,920
Hard ..	2,663,116	3,023,551	4,231,448	4,702,208	6,127,780	6,937,252
Soft ..	1,721,697	1,785,470	1,781,576	1,787,286	1,775,836	2,064,961
Australia (d)—						
Gas-works—coke ..	922,702	831,615	815,464	758,668	764,626	761,355
breeze ..	152,896	146,196	173,618	(f) 316,549	(f) 376,123	(f) 456,719
Coke-ovens—coke ..	2,234,458	2,295,737	2,196,650	2,376,097	2,738,505	2,716,894
breeze ..	203,979	182,390	170,190	(g)	(g)	(g)
New Zealand (b)—						
Gas-works ..	70,229	72,493	72,016	77,036	86,732	<i>n.a.</i>
Irish Republic—						
Gas works (c) ..	<i>n.a.</i>	87,840	89,696	111,648	120,920	119,969
OTHER COUNTRIES						
Austria—						
Gas-works ..	397,358	319,259	265,928	258,288	249,906	310,203
Coke-ovens ..	1,824,297	1,602,967	1,524,766	1,808,218	1,753,878	1,628,056
Belgium—						
Gas-works ..	4,000	4,000	r 2,000	r 2,000	2,000	2,000
Coke-ovens ..	7,043,445	6,797,243	7,103,000	7,406,264	7,095,945	7,081,000
Bulgaria ..	11,582	10,302	8,878	20,037	20,000	<i>n.a.</i>
Czechoslovakia—						
Hard coke ..	7,367,000	7,254,000	7,754,000	8,324,000	8,402,000	8,789,000
Brown-coal coke ..	2,035,000	2,059,000	2,149,000	2,142,000	2,121,000	2,078,000
Denmark (gas-works) ..	r 377,000	r 303,000	330,000	392,000	399,000	411,000
Finland (gas-works) ..	104,824	124,000	128,000	136,000	<i>n.a.</i>	<i>n.a.</i>
France—						
Gas-works (e) ..	1,509,000	1,324,800	1,004,000	684,300	422,700	242,000
Coke-ovens ..	12,407,742	12,306,281	12,930,134	13,419,321	13,266,892	13,303,000
Semi-coke ..	276,818	272,108	283,297	292,622	273,202	265,000
Germany (Federal)—						
Gas-works ..	5,374,000	4,882,000	4,935,000	5,138,000	4,870,000	4,882,000
Coke-ovens—hard coke	44,616,000	42,890,000	37,921,000	44,047,000	43,829,000	42,514,000
do. brown-coal coke ..	574,000	589,000	586,000	592,000	592,000	591,000
Germany (East)—						
Hard coke ..	2,773,000	2,949,000	3,085,000	3,155,000	3,035,000	3,073,000
Brown-coal coke ..	7,290,000	7,456,000	7,422,000	7,577,000	7,544,000	7,540,000
Greece (gas-works) ..	21,175	20,519	19,057	23,000	23,000	20,000
Hungary—						
Gas-works ..	408,000	416,000	425,000	441,000	429,000	458,000
Coke-ovens—hard coke	258,000	366,000	388,000	533,000	681,000	742,000
do. brown-coal coke	36,000	45,000	47,000	47,000	47,000	41,000

(a) Excluding coke used for heating retorts.

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

(c) Including coke-breeze.

(d) Years ended June 30 of that stated.

(e) Sales.

(f) Including coke-ovens.

(g) Included with gas-works.

PRODUCTION OF COKE (cont.)

Long tons

Producing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Italy—						
Gas-works	915,782	814,698	787,308	803,192	769,788	763,270
Coke-ovens	3,628,772	3,307,264	3,006,769	3,656,403	3,835,075	4,259,293
Luxemburg—						
Gas-works	35,000	35,000	34,000	36,000	35,000	35,000
Netherlands—						
Gas-works	648,000	558,000	430,000	287,000	232,000	197,000
Coke-ovens	4,215,000	4,058,000	4,063,000	4,486,000	4,574 000	4,206,000
Norway (gas-works) ..	55,309	48,632	48,483	45,983	44,372	44,264
Poland—						
Gas-works	956,600	964,200	972,100	969,800	1,013,200	} 12,900,000
Coke-ovens	9,769,000	10,004,000	10,412,000	10,772,000	11,355,000	
Portugal (gas-works) ..	33,611	38,620	34,828	38,000	39,282	30,456
Roumania—						
Coke-ovens	428,572	553,708	599,784	806,755	924,681	1,100,858
Saar—						
Coke-ovens	4,255,660	4,109,535	} 4,367,000	(a)	(a)	(a)
Semi-coke	123,194	111,644				
Spain—						
Gas-works	249,775	264,514	268,114	243,951	248,530	219,000
Coke-ovens	1,853,977	2,018,637	2,369,221	2,532,905	2,568,001	2,676,000
Sweden (including breeze)	759,586	702,165	722,760	720,792	852,000	<i>n.a.</i>
Switzerland—						
Gas-works	500,539	450,640	460,551	476,170	472,166	488,483
U.S.S.R.	47,800,000	50,100,000	52,550,000	55,310,000	b57,700,000	b58,000,000
Yugoslavia—						
Gas-works	24,240	25,400	20,500	19,500	16,700	17,300
Coke-ovens	1,020,862	1,014,000	1,053,000	1,066,000	1,082,000	1,090,000
Algeria (gas-works) ..	90,135	86,435	87,277	91,177	61,370	<i>n.a.</i>
Libya—						
Gas-works	<i>n.a.</i>	(b) 5,000	(b) 5,000	(b) 5,000	(b) 5,000	(b) 5,000
South Africa—						
Gas-works	94,979	91,285	86,301	81,710	77,267	100,571
Coke-ovens	1,581,074	1,767,730	1,968,544	2,076,596	2,188,506	2,414,254
Mexico (coke-ovens) ..	674,000	587,000	671,000	822,000	769,000	763,000
United States—						
Coke-ovens—						
Coke	65,947,046	47,326,545	48,918,996	50,195,632	45,384,294	45,623,589
Breeze and screenings	4,341,602	3,264,462	3,313,364	3,308,434	2,979,611	3,057,786
Beehive—						
Coke	1,866,097	534,261	959,193	901,437	786,409	724,886
Breeze and screenings	45,115	52,239	66,265	33,633	47,790	38,779
Brazil	(c) 506,498	(c) 499,802	(c) 513,074	693,000	688,000	709,000
Chile	(b) 500,000	(b) 480,000	321,398	<i>n.a.</i>	255,741	<i>n.a.</i>
Colombia	235,000	276,191	244,160	244,300	197,000	<i>n.a.</i>
Peru	30,865	32,403	31,000	29,000	35,421	38,876
Uruguay (gas-works)—						
Coke	28,955	30,001	27,764	31,065	23,105	22,194
Breeze	4,997	4,253	4,036	4,485	3,774	3,823
China (d)	6,600,000	18,000,000	22,000,000	25,000,000	20,000,000	18,000,000
Formosa	251,800	213,100	187,700	(b) 200,000	(b) 200,000	<i>n.a.</i>
Iran (e)	<i>n.a.</i>	<i>n.a.</i>	22,000	25,000	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Gas-works	2,971,000	2,840,917	3,172,889	3,660,982	3,736,845	3,399,336
Coke-ovens	4,715,000	4,388,192	5,188,015	6,380,352	8,366,879	8,751,877
Beehive, etc.	1,455,000	1,424,970	1,819,864	2,033,937	2,373,635	2,614,015
Korea (North) (d) ..	390,000	420,000	450,000	500,000	500,000	500,000
Korea (South)	3,000	1,300	—	—	—	35,000

(a) Included with Germany (Federal).

(d) United States Bureau of Mines' estimate.

(b) Estimated.

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

(c) Volta Redonda only.

PRODUCTION OF COKE (cont.)

Long tons

Producing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Turkey—						
Gas-works	99,336	108,739	(a) 115,000	(a) 100,000	119,000	150,000
Coke-ovens	538,532	547,930	521,102	520,938	502,000	505,000
Semi-coke	79,108	80,025	81,320	82,437	81,000	83,000

(a) Estimated.

PRODUCTION OF BRIQUETTES

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Great Britain	2,106,000	2,199,000	1,719,000	1,453,000	1,468,000	1,548,000
Canada	352,249	182,187	136,727	72,484	60,113	(b) 60,000
Australia (a)—						
Brown-coal briquettes..	617,989	626,174	642,950	974,670	1,806,619	1,819,954
New Zealand	15,445	16,349	15,755	15,082	14,287	11,829
Irish Republic	1,800	128	483	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
OTHER COUNTRIES						
Austria—						
Brown-coal briquettes..	12,118	2,405	—	—	—	—
Belgium	1,806,000	1,020,000	985,959	1,062,400	1,152,000	1,576,900
Czechoslovakia—						
Coal briquettes	326,000	387,000	372,000	322,000	149,000	—
Brown-coal briquettes	305,000	326,000	323,000	429,000	708,000	775,000
Denmark—						
Brown-coal briquettes ..	25,469	29,915	(e) 20,062	(e) 18,491	(e) 34,249	<i>n.a.</i>
France	8,125,650	6,993,509	6,459,303	5,976,028	5,995,109	6,827,000
Germany (Federal)—						
Coal briquettes	7,243,000	5,544,000	4,636,000	5,136,354	4,791,975	5,573,939
Brown-coal briquettes ..	16,560,000	16,177,000	14,965,000	15,003,894	15,270,209	15,520,870
Germany (East)—						
Brown-coal briquettes ..	52,523,000	53,155,000	53,197,000	55,162,000	57,080,000	58,784,000
Hungary—						
Brown-coal briquettes ..	569,000	755,000	855,000	918,000	958,000	973,000
Netherlands—						
Coal briquettes	1,120,246	1,069,163	1,043,550	1,162,400	1,168,932	1,346,000
Brown-coal briquettes ..	80,165	73,931	62,860	61,500	72,888	69,700
Poland—						
Coal briquettes	654,000	631,000	672,000	707,000	664,000	644,000
Brown-coal briquettes ..	229,000	271,000	315,000	308,000	333,000	<i>n.a.</i>
Portugal	89,842	73,852	59,039	52,668	54,915	37,294
Spain	1,360,614	1,410,847	1,257,001	1,125,302	1,100,122	1,213,000
Switzerland (b)	100,000	100,000	100,000	100,000	100,000	100,000
Algeria	42,229	49,845	48,713	44,237	39,905	(b) 27,000
Morocco	18,587	17,392	15,031	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Tunisia	10,671	1,394	<i>n.a.</i>	<i>n.a.</i>	—	—
United States (c)	986,412	924,340	773,321	664,629	510,950	508,949
Korea (South)	300,000	334,866	455,048	450,000	579,134	<i>n.a.</i>
Turkey (d)	57,852	113,729	117,313	147,764	<i>n.a.</i>	<i>n.a.</i>

(a) Years ended June 30 of that stated.

(b) Estimated.

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

1957—42,221; 1958—31,937; 1959—30,103; 1960—22,059; 1961—17,125; 1962—15,571.

(d) Sales.

(e) Production in major establishments only.

PRODUCTION OF COAL BY-PRODUCTS*

Long tons

Producing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Great Britain—						
Tar (crude) distilled ..	2,866,000	2,722,000	2,616,000	2,681,000	2,656,000	2,570,000
Tar (refined)	588,000	538,000	556,000	547,000	560,000	566,000
Pitch	446,000	512,000	464,000	412,000	418,000	354,000
Motor benzol	189,000	168,000	116,000	115,000	131,000	118,000
Other motor spirits, etc.	82,700	56,700	5,700	5,700	6,300	6,700
Other refined light oils ..	227,500	226,700	260,000	287,000	238,000	223,000
Creosote-pitch mixture	1,050,000	899,000	857,000	1,051,000	904,000	1,020,000
Creosote oil	428,000	433,000	380,000	410,000	400,000	430,000
White naphthalene	8,700	6,500	6,100	6,300	7,300	6,300
Hot-pressed do.	19,600	23,500	29,300	22,600	16,800	} 72,100
Crude do.	20,700	25,100	27,200	45,300	47,000	
Pyridine bases	1,300	1,600	1,500	1,400	1,300	2,000
Natural phenol	14,900	18,600	18,200	18,500	20,600	16,300
Refined cresylic acid ..	69,000	64,000	67,000	75,000	66,000	66,000
Anthracene 40-50% ..	3,400	2,300	3,700	4,000	4,200	4,000
Southern Rhodesia—						
Tar (crude)	3,070	3,176	(c) 6,081	(c) 3,446	4,842	(c) 6,575
Motor benzol	544	507	(c) 415	(c) 562	608	(c) 297
Ammonia liquor	875	1,020	(c) 1,041	(c) 1,040	1,068	(c) 872
Canada—						
Tar (crude)	223,854	183,948	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Tar (refined)	15,264	16,482	11,678	13,490	<i>n.a.</i>	<i>n.a.</i>
Pitch	107,732	102,230	113,054	113,000	<i>n.a.</i>	<i>n.a.</i>
Creosote oils	57,067	45,600	48,325	67,043	<i>n.a.</i>	<i>n.a.</i>
Ammonium sulphate ..	27,276	26,234	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Benzol	34,532	27,665	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Toluol, xylol and naphthalene	10,018	9,531	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
India (coke-ovens)—						
Tar	111,689	113,134	163,554	203,307	255,972	311,624
Benzol	5,570	4,096	3,198	3,527	5,767	5,965
Benzene	2,108	3,094	4,268	4,277	7,260	8,898
Toluol	96	282	216	368	269	192
Toluene	431	236	685	955	1,043	2,009
Xylene	—	—	—	—	76	298
Solvent naphtha	492	478	513	492	514	735
Pitch	1,898	3,004	6,931	7,042	36,051	45,110
Naphthalene	29	82	28	7	1,206	3,985
Ammonium sulphate ..	22,276	24,547	34,471	39,125	52,525	62,492
Australia—						
Tar (crude) (a)	270,762	254,507	255,383	266,472	292,985	291,709
Tar (refined) (a)	145,010	141,805	147,161	152,041	152,168	123,440
Tar oils (crude) (a) ..	17,813	17,869	17,750	17,141	18,034	18,948
Benzol for blending ..	16,070	19,251	18,093	18,837	22,007	<i>n.a.</i>
New Zealand (b)—						
Tar (gas-works)	13,577	13,234	13,046	12,707	11,909	<i>n.a.</i>
Irish Republic (gas-works)—						
Tar	<i>n.a.</i>	12,784	14,074	13,903	12,737	17,015

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

See page 87 for conversion rates.

See Nitrogen Compounds (pages 229-231) 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.

PRODUCTION OF COAL BY-PRODUCTS (cont.)

Long tons

Producing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
Belgium—						
Tar (crude)	248,150	243,310	253,548	263,572	265,157	272,163
Benzol (motor)	50,608	54,175	57,245	20,270	} 7,070	n.a.
do. industrial	8,598	8,184	8,941	26,104		
Benzene	4,869	n.a.	n.a.	n.a.	n.a.	40,800
Toluol and xylo	2,173	1,156	} 2,090	6,058	11,610	14,362
Solvent naphtha	827	386				
Denmark (a)—						
Tar (gas-works)	41,072	39,845	n.a.	n.a.	n.a.	n.a.
Benzol (crude)	136	84	n.a.	n.a.	n.a.	n.a.
Finland (gas-works)—						
Tar	5,388	n.a.	n.a.	n.a.	n.a.	n.a.
Benzol	581	n.a.	n.a.	n.a.	n.a.	n.a.
Ammonia	343	n.a.	n.a.	n.a.	n.a.	n.a.
France—						
Tar (crude)	698,154	713,190	705,186	700,000	645,004	644,000
Ammonium sulphate	113,900	115,000	119,325	r 125,100	127,600	77,418
Benzol (crude)	131,153	135,757	144,558	151,700	152,161	160,000
Pitch	213,848	214,249	209,175	218,246	199,179	198,000
Naphthalene (crude)	24,697	32,080	43,424	45,588	50,902	52,000
Germany (Federal)—						
Tar (crude)	1,927,000	1,870,000	1,713,000	2,042,000	2,017,000	(b)1,719,000
Pitch	950,120	966,024	862,390	959,148	961,800	964,500
Tar oils	673,487	646,578	589,034	660,684	698,300	740,000
Naphthalene	97,687	91,342	108,525	126,253	140,400	147,800
Benzol (crude)	554,989	539,000	487,000	592,000	582,000	564,000
Refined benzols	554,115	559,887	511,186	642,173	620,400	605,200
Phenol	12,172	12,908	15,100	15,701	14,709	18,935
Cresol and xylo	20,823	20,422	25,317	24,323	23,787	25,198
Anthracene	40,619	39,496	32,597	32,514	35,323	40,210
Pyridine and bases	884	717	782	940	918	991
Italy—						
Tar	180,886	170,921	163,179	180,299	197,655	215,422
Ammonium sulphate	40,658	38,360	35,295	37,929	41,203	n.a.
Benzol (crude)	39,139	35,043	30,444	35,637	36,383	35,583
Naphthalene (crude)	6,969	6,751	6,109	8,848	8,874	9,010
Distillates	45,834	46,083	50,996	63,970	73,051	70,759
Benzol (refined)	21,831	20,413	23,548	27,659	30,365	29,147
Toluol and xylo	5,799	6,601	6,847	6,226	6,655	6,584
Pitch	57,092	53,226	59,045	76,574	82,896	80,121
Solvent naphtha	918	1,033	1,111	1,215	1,417	1,465
Norway—						
Tar (gas-works)	6,094	5,577	5,594	5,318	4,810	4,767
Poland—						
Tar (coke-ovens)	423,000	435,400	453,800	479,900	500,500	n.a.
Tar (gas-works)	68,000	67,100	71,200	71,100	74,300	n.a.
Ammonium sulphate (coke-ovens)	107,300	110,600	113,100	115,700	122,900	n.a.
Benzol (coke-ovens)	137,100	139,200	140,200	147,700	154,800	n.a.
Naphthalene	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Portugal (gas-works)—						
Tar (crude)	2,053	n.a.	n.a.	n.a.	n.a.	n.a.
Tar (refined)	44	n.a.	n.a.	n.a.	n.a.	n.a.
Creosote	1,466	n.a.	n.a.	n.a.	1,363	1,144
Pitch	1,320	n.a.	n.a.	n.a.	1,147	826
Spain—						
Tar	(c) 141,173	(c) 107,787	(c) 130,613	139,922	132,676	n.a.
Pitch	23,498	28,571	33,510	34,155	26,231	n.a.
Benzol	22,355	32,491	35,640	39,157	37,566	n.a.
Benzene	4,505	5,084	3,595	7,742	8,010	n.a.

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

(b) Coke-ovens only.

(c) Including some tar from oil-shale.

PRODUCTION OF COAL BY-PRODUCTS (cont.)

Long tons

Producing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Spain (cont.)—						
Toluol	1,396	1,892	1,203	2,325	2,007	n.a.
Toluene	724	788	1,150	798	812	n.a.
Xylene	—	—	—	71	422	n.a.
Solvent naphtha	303	354	244	201	230	n.a.
Anthracene	9,385	10,048	10,114	13,142	7,943	n.a.
Naphthalene	4,276	4,932	5,286	6,337	6,263	n.a.
Ammonium sulphate	r 139,928	n.a.	r 208,266	r 319,058	353,429	n.a.
Creosote	4,184	9,077	9,484	10,924	10,064	n.a.
Sweden—						
Tar (crude)	35,433	34,190	35,573	33,623	n.a.	n.a.
Other tar	29,076	31,958	32,850	n.a.	n.a.	n.a.
Pitch	587	373	297	236	n.a.	n.a.
Benzol, toluol, etc.	4,262	3,401	11,336	10,560	n.a.	n.a.
Distillates, etc.	5,829	6,093				
Switzerland—						
Tar (crude) (gas-works)	28,999	27,282	26,608	28,561	27,291	27,071
Yugoslavia—						
Benzol	8,877	8,664	11,113	11,182	11,242	n.a.
Algeria—						
Tar (gas-works)	5,295	5,173	5,250	r 5,368	3,703	n.a.
United States—						
Coke-ovens—						
Tar (crude)	3,732,796	2,860,326	2,793,710	2,938,289	2,706,743	2,778,255
Pitch	825,896	736,134	640,808	929,046	1,049,227	991,437
Sulphate equivalent of ammonia produced (a)	905,112	660,036	639,913	656,644	618,807	598,777
Benzol	597,508	394,266	399,437	451,088	400,684	380,757
do. motor	4,931	3,736	1,337	2,070	2,762	4,802
Toluol and xylo	159,407	119,218	112,704	125,733	117,551	113,754
Solvent naphtha	20,123	14,164	12,895	14,700	14,474	13,731
Other light products	27,050	15,510	10,499	12,288	11,707	14,110
All sources (c)—						
Tar (crude)	3,732,796	2,860,326	2,793,710	2,938,289	2,706,743	n.a.
Water gas and oil gas						
tar	179,915	121,970	65,342	93,162	70,513	n.a.
Crude light oil	1,006,197	730,903	710,120	781,670	713,343	n.a.
Benzol (b)	r 717,880	r 483,537	r 461,100	r 493,713	441,867	n.a.
Toluol	139,359	105,320	100,110	109,910	103,070	n.a.
Xylo	39,575	29,380	26,170	27,600	26,510	n.a.
Solvent naphtha	67,811	51,487	25,110	29,010	29,320	n.a.
Other light oil derivatives	42,810	27,730	21,230	23,260	25,280	n.a.
Naphthalene (crude)	187,619	154,056	189,863	230,821	221,949	n.a.
Creosote oil	505,429	445,817	358,880	368,390	348,250	n.a.
Tar, road	405,637	296,480	282,510	267,370	244,490	n.a.
Tar for other uses (d)	182,050	125,360	123,070	128,190	122,640	n.a.
Distillate products, others	149,111	98,417	80,210	75,317	94,008	n.a.
Pitch of tar	1,703,000	1,420,000	1,364,000	1,701,000	1,826,000	n.a.
Pitch of tar coke	25,000	26,000	31,000	25,000	12,000	n.a.

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

1957—811,520; 1958—571,802; 1959—547,087; 1960—563,967; 1961—529,980; 1962—531,000.

(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	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Brazil (a)—						
Tar	53,000	45,253	52,274	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Benzol	5,000	3,861	3,112	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Toluol and xylol	1,000	909	705	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Solvent naphtha	60	63	59	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Naphthalene	2,184	1,875	1,718	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Creosote oil	3,000	2,434	2,345	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ammonium sulphate	5,731	4,547	4,971	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Pitch	2,000	2,805	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Carbolic acid	<i>n.a.</i>	926	415	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Tar	<i>n.a.</i>	15,073	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Benzol	4,057	5,367	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ammonium sulphate	2,810	2,947	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Uruguay (gas-works)—						
Tar	2,623	2,813	2,798	2,933	2,396	2,045
Benzol	175	165	152	139	163	165
Japan—						
Tar	r 670,659	r 655,460	r 734,492	r 888,410	1,053,784	1,075,477
Benzol (crude)	130,582	126,656	160,223	196,929	243,701	254,739
do. (other)	58,815	76,046	93,326	122,873	161,407	194,298
Toluol and xylol	10,223	14,672	20,293	31,739	134,556	41,603
Solvent naphtha	6,534	7,250	8,846	10,996	10,786	8,906
Creosote oil	164,141	156,887	179,195	199,484	230,967	249,116
Carbolic acid (crude)	6,862	<i>n.a.</i>	10,409	11,287	4,211	15,359
Naphthalene (crude)	27,599	27,166	35,761	50,889	60,256	58,028
do. (refined)	28,564	29,262	10,176	10,656	11,314	9,021
Anthracene	6,450	6,107	7,904	11,621	13,322	12,568
Ammonium sulphate	122,099	118,925	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	217,603
Turkey—						
Road tar	8,819	10,954	—	17,887	18,432	<i>n.a.</i>
Pitch	15,917	15,350	14,960	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Benzol	4,894	4,963	4,404	4,581	4,244	<i>n.a.</i>
Toluol and xylol	357	372	386	436	473	<i>n.a.</i>
Solvent naphtha	175	48	25	80	43	<i>n.a.</i>
Creosote	4,490	4,788	4,452	4,716	2,312	<i>n.a.</i>
Carbolic acid	609	19	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Anthracene	121	85	45	169	6	<i>n.a.</i>
Ammonium sulphate	4,323	4,314	2,948	4,549	4,200	<i>n.a.</i>
Naphthalene	650	657	587	667	659	<i>n.a.</i>

*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.

(a) Volta Redonda only.

EXPORTS OF COAL, COKE AND BY-PRODUCTS*

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Anthracite—						
smalls and graded ..	914,149	685,313	428,955	536,065	715,278	1,016,834
large	190,118	138,488	99,549	86,856	73,583	111,494
other	514,972	293,746	283,902	269,923	295,639	272,002
Bituminous—						
smalls and graded ..	1,801,445	1,808,495	1,842,330	3,148,244	3,535,062	2,509,121
unscreened	858,174	273,213	178,211	221,573	171,316	203,095
large	1,315,767	504,404	302,594	593,030	477,988	219,702
other	1,432,064	519,025	339,303	286,850	328,188	379,933
Bunkers	1,201,585	840,162	633,503	317,372	110,108	53,510
Coke, gas	923,365	682,491	607,192	674,490	636,587	722,644
do. other	1,821,322	709,413	758,742	876,837	842,582	1,004,325
Manufactured fuel ..	225,320	148,167	134,310	93,002	59,997	100,603
Tar	89,250	73,297	55,146	69,678	68,281	74,742
Pitch	232,625	179,524	166,840	184,338	168,717	210,065
Channel Islands (Jersey)						
Coke	1,956	12,327	8,312	11,527	12,405	15,210
Tar	—	—	3,147	3,762	2,885	3,709
Gibraltar—						
Coal (bunkers) (b) ..	34,000	12,000	6,000	6,812	<i>n.a.</i>	<i>n.a.</i>
Malta—						
Coal (bunkers on merchant ships) (b) ..	1,298	218	34	—	—	—
Kenya—						
Coal (bunkers) (b) ..	—	14	63	66	176	156
Nigeria—						
Coal (incl. bunkers) ..	101,761	98,248	74,561	26,780	51,041	32,199
Rhodesia and Nyasaland—						
Coal	158,319	419,854	157,192	175,026	243,787	192,966
Coke	113,784	60,885	62,881	70,869	111,736	52,238
Canada—						
Coal	353,177	301,853	422,896	761,521	838,693	798,142
do. (bunkers) (c) ..	32,157	25,621	19,320	17,737	14,895	17,312
do. do. (a)	384,852	300,431	238,257	257,114	222,549	218,679
Lignite	672	419	112	16	<i>n.a.</i>	<i>n.a.</i>
Coke	102,875	102,163	113,009	111,392	155,621	112,521
Tar and pitch	9,642	6,101	42	8	22,568	26,876
Bermuda—						
Coal (bunkers) (b) ..	360	—	—	—	—	—
Trinidad and Tobago—						
Coal (bunkers) (b) ..	78	614	35	73	38	18
Aden—						
Coal (bunkers) (b) ..	11,661	3,565	425	—	—	—
Ceylon—						
Coal (bunkers) (b) ..	8,519	2,274	713	324	447	627
Cyprus—						
Coal (bunkers) (b) ..	2,458	90	—	—	1	—
Hong Kong—						
Coal	14,392	3,028	539	9,583	6,264	3,910
Coke	127	942	955	839	210	30
India—						
Coal	1,591,572	1,713,872	1,374,660	(d)1,129,383	(d) 919,409	(d)1,097,121
Coke	71,635	78,786	35,310	(d) 41,516	(d) 340	(d) 31
Tar and pitch	274	200	832	(d) 3,186	(d) 6,721	(d) 1,065

*For Ammonium sulphate, etc. see Nitrogen Compounds, pages 232-233.

(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.

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

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES (cont.)						
Malaya—						
Coal	—	15	5	1	—	3
do. (bunkers) (a) ..	7,476	4,322	1,361	82	54	852
Coke	449	364	332	489	496	404
Tar	151	53	69	28	18	753
Australia (c)—						
Coal	545,101	836,336	645,249	1,087,844	1,888,415	3,469,552
do. (bunkers)	9,065	11,608	8,187	8,117	179	37
Coke	129,392	112,760	8,823	75,502	81,075	78,359
New Zealand—						
Coal	2,902	1	7,142	18,157	13,559	48
do. (bunkers)	—	579	—	—	—	—
Coke	517	895	2,761	5	33	19
Tar	3	1	—	2	—	—
Irish Republic—						
Coal (bunkers) (a) ..	1,301	1,268	311	320	316	—
Coal and coke	16,667	7,522	4,532	21,808	61,297	39,908
OTHER COUNTRIES						
Austria—						
Coal	134	8	35	26	63	28
Brown coal	47,706	39,821	37,093	37,119	31,825	19,643
Coke	3	15	23	38	20	9,952
Tar	164	64	28	1	—	—
Pitch	18,087	5,169	2,772	2,932	3,854	1,054
Belgium-Luxemburg						
E.U.—						
Coal	3,868,304	2,779,509	2,216,472	2,187,163	2,730,488	2,709,649
do. (bunkers) (b) ..	14,113	6,596	7,222	15,252	8,270	8,692
Coke	742,984	828,762	625,642	736,973	624,729	416,655
Briquettes	683,954	184,721	150,948	176,007	140,306	285,990
Tar	4,626	5,885	20,373	15,251	12,512	6,261
Pitch	14,679	31,043	27,330	55,823	39,379	23,292
Czechoslovakia—						
Coal	764,000	1,482,000	1,565,000	2,160,000	2,408,000	2,347,000
Brown coal	1,516,000	1,246,000	1,295,000	1,420,000	1,342,000	1,522,000
Coke	1,141,000	1,028,000	1,190,000	1,296,000	1,348,000	1,545,000
Denmark—						
Brown coal briquettes	28,577	8,289	1,939	8,964	28,862	26,345
Coke	433	14,901	10,944	18,296	24,131	40,148
Tar and pitch	12,724	21,526	15,943	14,242	12,802	15,154
France—						
Anthracite	17,119	12,412	9,962	14,794	12,935	23,275
Bituminous	5,986,792	4,694,838	2,938,227	1,381,364	1,311,872	1,315,849
Brown coal	871	—	295	465	361	61
Coke	198,999	136,369	117,084	103,966	72,584	55,983
Briquettes	21,817	18,802	16,802	26,207	23,768	30,838
Brown coal briquettes	132	39	175	168	106	243
Coal, coke and briquettes—						
Bunkers (domestic produce)						
do. (foreign produce)	16,451	25,807	21,993	(b) 1,350	n.a.	n.a.
Tar and pitch	34,576	11,351	7,315	n.a.	n.a.	n.a.
	34,412	63,207	55,219	34,945	25,974	11,944

(a) Foreign coal (see imports).

(b) Bunkers for foreign ships only.

(c) Years ended June 30 of that stated.

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

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (Federal)—						
Coal	12,510,339	10,932,165	14,325,745	17,245,972	} 16,666,158	{ 17,572,444
do. (bunkers) (a) ..	240,402	118,125	100,591	89,180			53,940
Brown coal	13,166	23,171	71,303	214,519	245,032	222,951
Coke	9,892,048	9,229,959	8,842,565	10,719,700	10,771,878	10,151,115
Coal briquettes ..	608,294	411,219	322,589	355,006	357,468	395,102
Brown-coal briquettes	1,639,501	1,629,584	1,483,242	1,302,463	1,433,600	1,424,860
Tar and pitch	110,591	162,114	185,779	265,348	251,130	262,007
Germany (East)—						
Coal	15,196	9,649	8,570	984	198	591
Coke	113,000	77,000	86,000	104,000	117,000	113,079
Brown coal briquettes..	4,678,000	6,092,000	6,249,000	6,239,000	6,107,000	6,498,000
Hungary—						
Coal	30,517	92,000	<i>n.a.</i>	63,341	48,808	52,199
Italy—						
Coal (incl. bunkers) ..	9,472	5,722	3,281	3,054	5,149	4,418
Coke	101,361	19,253	36,617	115,369	163,649	170,007
Tar	3,061	3,116	2,437	1,776	576	3,775
Pitch	17,738	25,543	21,435	22,806	20,583	29,542
Netherlands—						
Coal	972,327	1,296,324	1,776,649	2,131,176	2,318,849	2,293,540
do. (bunkers)	(b) 160,724	(a) 6,832	(a) 6,686	(a) 1,481	(a) 1,496	(a) 1,212
Brown coal	62,729	44,972	10,342	—	22	9
Coke	2,016,521	1,658,470	2,024,599	2,269,911	2,438,035	2,187,692
Briquettes	305,017	292,443	392,221	498,463	533,082	610,660
Brown coal briquettes ..	29,627	28,375	24,227	27,277	37,557	38,855
Tar	1,692	208	1,246	18,437	27,931	26,451
Pitch	22,923	25,655	16,120	6,281	6,932	8,783
Norway—						
Tar	1,464	971	—	2,631	2,675	1,928
Pitch	65	539	25	30	19	17
Poland—						
Coal	13,146,000	15,947,700	15,753,500	17,220,700	16,783,700	17,032,600
Brown coal	4,051,000	5,100,300	5,676,900	5,368,800	5,779,600	5,570,600
Coke	1,895,000	2,036,500	2,035,800	2,053,000	2,104,800	2,111,000
Portugal—						
Coal	96	183	110	67	2,563	102
do. (bunkers) (a) ..	2,365	1,758	1,710	367	473	1,523
Tar and pitch	75	82	69	11	18	15
Spain—						
Anthracite	18,951	—	—	—	15,244	—
Bituminous (incl. bunkers) ..	110,470	51,445	45,745	} (c) 19,066	(c) 20,760	(c) 15,353
Other coal	15,596	18,571	16,342		(c) 23,664	(c) 27,140	(c) —
Coke	80,249	534	698	120	7	—
Tar and pitch	1	9	2			
Spitzbergen—						
Coal (including bunkers)	721,518	685,078	656,213	784,151	705,043	826,000
Sweden—						
Coal	30	39	966	427	36,104	19,911
Coke	12,024	18,954	16,654	10,639	6,575	6,235
Tar, pitch, etc. . . .	6,530	4,774	23	17	4,515	9,577
Switzerland—						
Coal	2,890	3,448	1,105	1	3	1,729
Coke	2,371	1,707	5,435	2,326	310	387
Briquettes	1,082	561	178	42	2,497	182
Tar and pitch	(d) 396	(d) 485	(d) 412	245	13	143
U.S.S.R.—						
Anthracite	1,747,300	1,861,100	1,810,000	1,792,200	2,172,100	3,213,400
Other coal	6,886,500	7,932,700	9,084,200	10,328,300	12,706,100	15,642,000
Coke	2,161,300	2,378,800	2,427,100	2,604,200	2,968,400	3,269,500
Pitch	203,100	204,300	162,300	190,600	145,200	127,800

(a) Bunkers for foreign ships only.
 (b) Including imported coal.

(c) Excluding exports to Spanish Dependencies.
 (d) Including pitch from petroleum.

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

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES.						
<i>(cont.)</i>						
Yugoslavia—						
Bituminous	29,686	65,697	95,332	104,655	98,812	83,044
Brown coal	92,985	60,962	55,537	6,177	6,842	14,756
Lignite	10,451	3,878	670	1,276	5,606	11,685
Briquettes	—	30	36	49	39	2
Pitch	7,463	10,200	7,679	11,203	21,057	11,927
Tar	19,294	733	—	—	1,153	431
Algeria—						
Coal and briquettes ..	18,379	7,298	4,390	—	<i>n.a.</i>	<i>n.a.</i>
do. (bunkers)	59	—	—	—	<i>n.a.</i>	<i>n.a.</i>
do. do. (b)	13,174	3,422	2,703	1,103	<i>n.a.</i>	<i>n.a.</i>
Coke	1,709	7	18	51	<i>n.a.</i>	<i>n.a.</i>
Tar	6	—	—	—	<i>n.a.</i>	<i>n.a.</i>
Canary Islands—						
Coal	68	—	12	—	—	202
Cape Verde Islands—						
Coal (bunkers) (b) ..	1,169	5	1	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ceuta—						
Coal	868	485	76	—	—	—
do. (bunkers) (b) ..	4,177	2,757	1,250	601	390	203
Egypt—						
Coal (bunkers for foreign ships) (b) ..	140	187	26	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Malagasy Republic—						
Coal (bunkers)	108	6	3	—	—	—
Morocco—						
Anthracite	251,672	211,621	206,566	185,091	194,130	155,530
Other coal	11,277	8,550	13,627	46	816	7
Briquettes	2,765	4,192	3,099	3,856	4,786	1,849
Mozambique—						
Coal (incl. bunkers) ..	35,149	46,480	43,189	58,599	59,832	51,922
South Africa—						
Coal	592,654	648,220	503,838	933,554	1,038,147	1,618,277
do. (bunkers)	33,798	10,779	1,852	1,808	1,383	1,146
Coke	440	1,985	1,630	12,656	8,981	13,593
Tar and pitch	18,317	9,664	24,621	17,273	10,860	3,946
Mexico—						
Coal and coke	—	325	20	334	—	—
Tar	41	1	—	—	—	—
United States—						
Anthracite	3,867,665	2,035,588	1,596,034	1,286,071	1,380,793	1,669,114
Bituminous	68,254,937	44,904,805	33,261,992	32,625,960	31,223,058	34,297,700
do. (bunkers)	374,429	320,106	326,612	274,832	245,551	<i>n.a.</i>
Coke	734,146	350,729	410,912	315,193	397,529	352,050
Briquettes	77,200	49,072	29,873	18,862	11,367	16,604
Tar and pitch	51,925	59,634	27,628	107,106	65,096	52,978
Chile—						
Coal (including bunkers)	61,080	49,939	61,168	31,849	725	<i>n.a.</i>
Coke	3,446	3,149	—	—	—	<i>n.a.</i>
Peru—						
Coal	26,329	2,363	52,235	26,998	1,968	10,457
Venezuela—						
Coal	—	2	237	—	—	—
Formosa—						
Coal (including bunkers)	29,753	29,833	89,432	186,073	236,966	126,341
Indonesia—						
Coal (including bunkers)	40,417	19,105	14,403	6,946	89	<i>n.a.</i>
Iran (a)—						
Coal	792	249	306	367	264	<i>n.a.</i>

(a) Years ended March 20 following that stated.

 (b) Foreign coal (*see imports*).

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

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
(cont.)						
Japan—						
Coal	118,425	169,238	54,769	21,429	56,065	62,452
do. (bunkers) ..	36,268	10,170	6,555	12,838	9,816	n.a.
Coke	2,160	3,240	14,147	6,639	8,119	14,463
Tar and pitch ..	12,608	19,026	7,909	18,907	14,569	30,368
Korea (South)—						
Anthracite	—	27,814	66,848	120,854	237,475	296,725
Lebanon—						
Coal	1,937	890	1,022	(a) 1,706	(a) 1,674	n.a.
Coke	998	747	620	416	542	n.a.
Briquettes	1,776	1,527	2,056	n.a.	n.a.	n.a.
Turkey—						
Coal	—	—	3,882	30,316	—	—
Vietnam (South)—						
Coal	411	—	—	—	68	n.a.

(a) Including briquettes.

IMPORTS OF COAL, COKE AND BY-PRODUCTS*

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Coal	2,828,385	793,927	117,964	13,223	39,900	21,829
Coke	914	5,834	4,416	3,291	2,109	3,111
Manufactured fuel	—	—	4	6	56	173
Channel Islands—						
Anthracite	103,954	128,803	102,827	116,473	84,356	79,556
Bituminous	165,191	160,873	147,094	130,950	105,076	110,143
Coke	26	351	237	4,167	5,042	7,316
Gibraltar—						
Coal (b)	36,000	14,225	7,057	6,720	6,820	2,781
Malta—						
Coal (c)	6,758	7,222	2,796	2,079	2,089	2,415
Coke	271	246	614	591	1,036	1,245
Gambia—						
Coal, coke and patent fuel	3	7	103	—	3	—
Tar	9	11	38	22	7	1
Ghana—						
Coal, coke and patent fuel	109,295	105,668	79,058	36,870	54,032	28,828
Tar	1,390	1,084	717	519	836	338
Kenya—						
Coal (c)	32,244	35,082	35,985	38,900	35,528	23,518
Coke	2,961	2,634	354	2,384	1,437	1,562
Tar	20	7	6	6	(a) 6	—
Mauritius—						
Coal	16,982	18,572	13,597	2,384	5,756	3,014
Coke	381	273	244	466	255	198
Tar	15	20	13	23	21	86
Nigeria—						
Coal, coke and patent fuel	835	920	711	901	2,446	1,394
Tar	599	804	715	1,343	1,138	1,137
Rhodesia and Nyasaland—						
Coal	51,789	45,981	48,588	56,765	65,020	62,421
Coke	—	284	99	134	35	241
Tar	100	82	678	571	809	523
St. Helena—						
Coal	381	64	67	49	67	94
Sierra Leone—						
Coal, coke and briquettes	25,913	30,491	15,670	11,199	10,649	15,322
Tar	144	239	211	140	(d) 208	140
Tanganyika—						
Coal	234	394	218	321	228	315
Coke	628	370	188	424	516	456
Tar	33	34	23	24	14	5
Uganda—						
Coal	33	39	32	40	44	80
Coke	139	2	17	82	76	134
Tar	311	19	18	13	16	20
Zanzibar—						
Coal	288	28	111	28	3	92

*For ammonium sulphate, etc., see Nitrogen Compounds, pages 234-240.

(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.

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

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES (cont.)						
Canada—						
Anthracite	1,712,300	1,381,951	1,361,166	1,098,667	858,329	790,336
do. dust	6,894	7,351	70,895	59,786	86,454	26,035
Bituminous	15,283,528	11,242,029	11,030,876	10,681,129	9,811,048	10,214,035
do. (a)	384,852	300,431	238,257	257,114	222,549	218,678
Brown coal	1,934	924	—	—	—	—
Briquettes	65,452	37,339	21,894	13,864	8,571	6,793
Coke	579,790	272,616	341,681	265,810	257,829	219,945
Tar	6,083	3,426	1,798	2,155	1,756	2,528
Pitch	62,027	55,168	51,684	71,653	95,059	84,191
Bahamas—						
Coal	—	60	2	4	2	3
Barbados—						
Coal, coke, and patent fuel	1,048	973	715	810	578	603
Bermuda—						
Bituminous (b)	1,042	1,098	10	10	10	10
British Honduras—						
Coal and coke	14	—	19	24	17	28
Grenada—						
Coal	—	—	1	6	3	n.a.
Coke	2	3	2	10	—	n.a.
Jamaica—						
Coal (b)	984	400	235	255	210	206
Coke	915	804	575	406	526	506
Tar	44	43	62	28	22	20
St. Kitts—						
Coal, coke and patent fuel	7	208	11	17	10	—
St. Lucia—						
Coal	57	5	13	25	19	9
Tar	2	6	6	4	—	3
St. Vincent—						
Coal	2	6	4	2	3	3
Trinidad and Tobago—						
Coal (b)	1,066	827	1,160	1,289	(c) 572	1,007
Coke	65	153	304	89	161	113
British Guiana—						
Coal	568	495	152	224	264	n.a.
Coke	77	98	42	42	102	n.a.
Patent fuel	24	25	70	20	43	n.a.
Tar	400	238	186	223	424	n.a.
Falkland Islands—						
Coal	6	—	26	427	—	5
Coke	173	95	75	243	129	—
Aden—						
Coal (b)	13,747	—	1,319	1,452	1,635	—
Coke	24	1	—	—	—	—
Ceylon—						
Coal (b)	576,572	172,121	173,345	256,077	137,141	139,005
Coke	2,459	2,730	1,238	240	2,246	530
Tar	98	64	288	113	43	58
Cyprus—						
Coal (b)	822	645	648	417	1	82
Coke	407	27	—	165	186	196
Tar and pitch	2	4	2	—	5	3
Hong Kong—						
Coal	246,108	199,303	205,086	226,369	239,043	215,253
Coke	5,715	5,762	5,226	6,076	4,112	4,017

(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	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES (cont.)						
India—						
Coal	507	1,329	1,832	(b) 2,050	(b) 5,210	(b) 9,090
Coke	123	1,070	20	(b) —	(b) 533	(b) 3,027
Tar and pitch	5,674	87	34	(b) 2,543	(b) 1,410	(b) 155
Goa—						
Coal	11,340	14,476	12,209	8,052	n.a.	n.a.
Coke	59	110	59	n.a.	n.a.	n.a.
Malaya—						
Anthracite	18,634	15	27,623	23,931	26,964	18,957
Bituminous (c)	70,871	1,875	1,100	9,669	14,244	19,781
Coke	4,376	2,780	4,656	5,805	6,862	6,309
Tar	230	473	492	150	507	1,836
Pakistan—						
Coal	1,250,000	1,344,644	913,860	2,062,536	1,240,380	1,311,602
Coke	66	52,022	42,119	28,297	—	—
Tar and pitch	4,484	2,536	3,380	6,039	591	7,130
Australia (a)—						
Coal	6,191	9,335	7,526	7,678	6,629	4,792
Coke	8,206	9,778	6,845	8,802	9,768	44
Tar and pitch	4,770	2,790	3,098	4,602	2,846	3,696
Fiji—						
Coal	6,098	3,262	10,083	7,087	1,926	7,026
Coke	165	218	183	211	211	165
Tar	22	74	158	254	11	43
New Guinea (a)—						
Coal and coke	56	27	35	26	19	18
New Zealand—						
Coal	12,370	116	82	132	9,784	7,535
Coke	293	—	57	55	357	100
Tar	10,860	10,528	6,764	5,499	5,688	5,383
Pitch	1,540	975	980	722	834	367
North Borneo—						
Coal and coke	53	79	84	33	64	66
Papua (a)—						
Coal and coke	49	33	51	25	21	17
Sarawak—						
Coal and coke	(d) 14	(d) 14	27	171	(d) 23	(d) 19
Tar	137	136	197	144	127	92
Western Samoa—						
Coal and coke	6	7	126	155	n.a.	n.a.
Irish Republic—						
Anthracite	41,953	41,966	61,496	54,979	56,098	57,318
Bituminous (c)	1,159,610	1,312,262	1,512,014	1,595,265	1,716,304	1,406,996
Coke	14,399	6,540	6,801	7,248	6,986	15,600
Patent fuel	33,731	12,467	4,044	2,524	2,777	2,692
Tar	16,724	17,892	8,609	5,215	6,890	11,912
OTHER COUNTRIES						
Austria—						
Coal	4,489,481	3,664,557	3,223,949	3,661,335	3,455,803	3,593,228
Brown coal	305,424	237,181	118,564	66,233	42,785	40,868
Coke	529,579	593,855	714,939	887,590	758,057	793,662
Briquettes	601,742	536,947	481,691	537,741	501,363	610,142
Tar, pitch, etc.	5,341	4,739	11,511	6,339	8,516	8,247

(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.

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

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Belgium-Luxemburg						
E.U.—						
Coal	5,484,679	5,557,903	5,027,969	4,061,418	4,169,341	4,858,653
do. coke	3,859,965	3,625,196	3,641,645	4,071,186	4,083,023	3,917,714
do. briquettes .. .	93,377	106,777	103,154	127,624	158,173	163,814
Brown coal	2,027	3,298	304	—	—	26
do. do. coke	369	1,223	34	36	169	239
do. do. briquettes .. .	247,855	254,243	213,410	221,524	225,871	233,338
Tar	12,637	8,580	7,836	22,441	31,995	31,829
Pitch	69,248	31,002	2,735	555	4,801	26,226
Czechoslovakia—						
Coal	2,256,000	2,535,000	2,318,000	2,364,000	3,302,000	3,959,000
Denmark—						
Coal	3,087,659	2,639,299	2,809,220	3,894,049	3,721,971	3,867,021
Coke	1,280,325	1,484,467	1,125,538	1,320,859	1,169,024	1,339,783
Briquettes	17,111	20,029	9,241	8,359	5,041	7,485
Brown coal briquettes .. .	119,420	196,044	129,258	168,444	180,908	215,611
Tar	66	42	90	80	40	70
Pitch	242	234	275	264	247	149
Faroe Islands—						
Coal	1,425	1,422	1,257	971	1,745	1,218
Finland—						
Anthracite	192,688	246,105	191,651	204,920	172,970	243,527
Other coal	2,365,443	1,844,763	2,335,229	2,685,505	2,562,470	2,335,604
Briquettes	n.a.	n.a.	n.a.	8,139	6,974	7,725
Coke	452,949	345,446	280,355	225,849	256,517	350,939
Tar	142	—	175	92	58	44
France—						
Anthracite	2,442,415	2,269,912	1,925,654	1,842,949	2,168,081	2,505,764
Bituminous	12,928,824	8,333,720	7,585,886	8,047,083	6,977,579	7,580,043
Lignite	1,395	922	169	79	1,310	1,528
Coke	5,006,125	4,388,705	4,014,797	4,972,098	5,481,533	4,602,265
Coal briquettes .. .	864,146	456,437	418,416	418,812	432,283	515,140
Brown-coal briquettes .. .	569,499	589,159	553,429	379,278	472,351	490,385
Tar and pitch	419,877	426,521	375,098	419,092	366,350	357,211
Germany (Federal)—						
Coal	21,087,887	15,926,954	8,248,236	6,583,296	6,678,059	7,180,036
Brown coal	937,762	895,505	982,526	1,061,554	1,098,146	1,103,717
Coke	476,825	233,124	434,502	530,961	388,257	431,969
Coal briquettes .. .	163,772	57,652	131,505	214,434	212,436	371,132
Brown-coal briquettes .. .	20,884	57,704	62,500	85,218	161,321	232,212
Tar and pitch	59,221	85,420	78,371	53,899	54,023	66,060
Germany (East)—						
Coal	5,662,000	7,280,000	7,956,000	7,901,000	7,811,000	8,741,000
Brown coal	4,084,000	5,166,000	5,759,000	5,444,000	5,858,000	5,637,000
Coke	2,647,000	2,413,000	2,559,000	2,487,000	2,790,000	2,919,000
Greece—						
Anthracite	54,392	24,953	17,620	8,765	5,025	9,901
Other coal	200,307	189,933	146,680	r 197,097	196,107	169,363
Coke	22,723	31,039	24,684	r 25,297	31,037	30,816
Tar and pitch	302	688	721	237	392	853
Hungary—						
Coal	2,388,523	1,124,149	1,207,493	1,408,160	1,697,589	1,685,207
Coke	1,085,358	1,127,718	1,045,519	1,025,560	930,947	950,013
Pitch	13,699	11,832	2,993	3,406	613	313
Iceland—						
Coal	33,291	29,811	r 27,644	21,136	17,118	15,881
Coke	1,499	3,054	2,182	2,256	1,296	2,090
Tar	120	103	111	16	41	6

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

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962		
OTHER COUNTRIES								
<i>(cont.)</i>								
Italy—								
Anthracite	1,145,821	} 8,658,672	{ 949,203	8,267,162	} 9,548,672	10,266,480		
Bituminous	10,027,813		{ 6,789,150	1,388,111		23,062	24,002	
Lignite	21,128		50,173	13,890		18,833	237,213	320,733
Coke	113,487		257,470	163,994		247,523	363,202	371,889
Briquettes	262,450		194,550	236,429		322,037	465	127
Tar	6,370		4,473	2,529		465	411	1,538
Pitch	480	101	212	600	1,281			
Netherlands—								
Coal	<i>a</i> 8,692,925	6,983,495	6,404,506	6,986,864	7,045,810	8,782,016		
Brown coal	—	8,518	10,244	180,280	235,963	211,995		
Coke	492,656	289,316	405,990	365,316	306,425	354,820		
Briquettes	317,905	176,795	131,744	143,717	116,833	132,803		
Brown-coal briquettes	300,756	301,312	261,490	246,445	234,560	237,193		
Tar	16,164	14,437	26,452	29,995	54,173	30,314		
Pitch	14,822	17,697	7,675	18,410	44,336	41,048		
Norway—								
Coal (<i>b</i>)	489,829	397,480	263,106	310,814	284,648	247,957		
Coke	569,379	501,580	598,680	735,568	690,157	664,110		
Briquettes	378	2,513	1,006	122	347	134		
Tar and pitch	7,195	11,100	32,971	43,832	42,682	45,002		
Poland—								
Anthracite	<i>n.a.</i>	13,100	15,900	19,400	18,500	<i>n.a.</i>		
Other coal	340,000	618,000	881,200	763,600	895,300	1,025,500		
Brown-coal briquettes	203,000	491,700	1,292,500	402,600	582,900	501,900		
Portugal—								
Anthracite	15,251	9,991	6,049	8,141	28,592	9,107		
Other coal	508,863	355,851	285,994	336,391	338,756	355,753		
Coke	22,218	24,687	33,718	40,950	187,288	173,477		
Briquettes	3,103	2,710	650	245	2,506	1,244		
Tar and pitch	6,295	4,710	4,150	3,206	2,130	2,978		
Roumania—								
Coal	<i>n.a.</i>	149,100	188,800	409,700	433,700	738,100		
Coke	<i>n.a.</i>	606,400	688,700	645,400	472,100	707,300		
Spain—								
Anthracite	26	3,751	7,818	31	22	211		
Bituminous	615,683	1,085,122	815,139	302,858	210,859	1,510,191		
Coke	2	—	5,997	36,494	283,845	301,152		
Tar and pitch	62,281	59,420	48,249	37,770	26,018	93,896		
Sweden—								
Anthracite	61,121	29,977	31,535	<i>r</i> 50,466	51,697	47,111		
Other coal	2,630,000	1,657,000	1,700,469	<i>r</i> 1,847,585	1,776,101	1,825,148		
Coke	2,368,000	1,583,000	1,491,078	1,794,990	1,568,373	1,489,094		
Briquettes	36,353	62,898	23,991	14,381	11,468	14,872		
Tar, pitch, etc. .. .	9,940	10,601	14,151	28,207	25,954	12,086		
Switzerland—								
Coal	2,383,739	1,645,461	1,648,646	1,921,852	1,640,619	1,663,745		
Lignite	786	307	610	544	472	260		
Coke	723,164	493,860	471,705	517,548	448,486	516,729		
Briquettes	321,514	302,311	234,507	227,343	247,809	223,010		
Tar and pitch	(<i>c</i>) 80,570	(<i>c</i>) 88,477	(<i>c</i>) 100,581	21,010	21,397	20,252		
U.S.S.R.—								
Coal	3,369,100	3,765,600	4,314,800	4,700,000	4,600,000	4,800,000		
Coke	365,100	667,300	620,100	647,600	637,800	597,400		
Yugoslavia—								
Anthracite	107,104	96,633	101,904	134,857	142,531	120,460		
Other coal	1,594,481	976,268	1,171,206	1,226,643	1,307,354	1,227,207		
Coke	19,532	45,148	237,727	298,911	193,003	240,130		
Coke dust	—	10,513	—	1,055	2,932	3,017		
Tar and pitch	642	2,474	5,515	4,063	3,821	1,082		

 (*a*) Including coal for bunkering purposes. (*See* exports.)

 (*b*) Excluding coal imported from Spitzbergen.

 (*c*) Including pitch from petroleum.

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

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Algeria—						
Coal	483,250	504,462	406,818	328,045	<i>n.a.</i>	<i>n.a.</i>
Coke	253	265	197	211	<i>n.a.</i>	<i>n.a.</i>
Briquettes	4,568	4,629	3,435	3,659	<i>n.a.</i>	<i>n.a.</i>
Tar and pitch	4,514	7,090	8,478	15,438	<i>n.a.</i>	<i>n.a.</i>
Angola—						
Coal	53,232	15,207	17,082	44,566	23,234	15,362
Coke	4,558	2,239	2,609	1,594	1,507	1,425
Cameroun—						
Coal, coke, etc.	997	527	174	733	976	306
Canary Islands—						
Coal	28,590	21,937	24,577	(<i>f</i>) 1,008	—	(<i>f</i>) 6,821
Cape Verde Islands—						
Coal (<i>a</i>)	21	1,505	665	59	<i>n.a.</i>	<i>n.a.</i>
Ceuta—						
Coal (<i>a</i>)	23,407	14,872	6,589	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Congo Republic—						
Coal	135,480	149,363	138,619	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Coke	108,969	76,884	68,029	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Briquettes	1	402	664	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Pitch	361	248	191	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Tar	208	263	1,173	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Egypt—						
Coal	118,086	74,892	42,870	44,673	45,259	<i>n.a.</i>
Coke	65,494	202,955	43,885	127,774	278,819	<i>n.a.</i>
Briquettes	650	26	—	104	—	<i>n.a.</i>
Tar and pitch	—	12	289	82	695	<i>n.a.</i>
Equatorial African Community—						
Coal, coke, briquettes ..	152	127	230	229	110	122
Ethiopia (<i>b</i>)—						
Coal	92	8,614	5,571	8,681	9,585	<i>n.a.</i>
French Somaliland—						
Coal	69	175	12	60	—	—
French West Africa—						
Coal	479	(<i>c</i>)	(<i>c</i>)	(<i>c</i>)	(<i>c</i>)	(<i>c</i>)
Briquettes	99					
Coke	476					
Ivory Coast—						
Coal and briquettes ..	(<i>d</i>)	51	120	59	63	30
Coke	(<i>d</i>)	169	114	128	172	<i>n.a.</i>
Malagasy Republic—						
Coal and briquettes ..	4,266	10,949	12,591	17,362	4,593	5,332
Coke	101	44	32	34	92	46
Tar and pitch	140	70	93	56	59	38
Melilla—						
Coal	22,457	11,129	6,988	<i>n.a.</i>	—	(<i>f</i>) 3,470
Morocco—						
Coal	(<i>e</i>) 70,045	78,158	63,329	81,391	84,185	69,353
Coke	(<i>e</i>) 6,773	8,525	9,470	8,508	7,230	6,629
Tar	25	37	1	3	1	—
Pitch	704	2,204	1,259	1,303	861	1,002
Mozambique—						
Coal	273,490	307,521	276,323	288,210	299,597	318,890
Coke	660	1,081	1,026	1,025	1,497	<i>n.a.</i>
Tar, pitch and asphalt. .	5,242	8,939	6,052	4,716	5,268	<i>n.a.</i>
Reunion—						
Coal and briquettes ..	254	3,007	84	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

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

(b) Years ended September 10 of that stated.

(c) See under Ivory Coast and Senegal.

(d) See under French West Africa.

(e) Morocco (Southern) only.

(f) Excluding imports from Spain.

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

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Senegal—						
Coal and briquettes ..	(a)	82	2,131	112	78	27
Coke	(a)	413	399	234	294	279
South Africa—						
Coal	49,820	54,962	26,899	1,818	2	<i>n.a.</i>
Coke	26	12	4	3	4	<i>n.a.</i>
Sudan—						
Coal	32,227	47,679	31,113	10,162	15,748	8,261
Coke	—	—	295	1,577	417	<i>n.a.</i>
Tar	30	204	31	79	31	<i>n.a.</i>
Togo—						
Coal and briquettes ..	7	—	—	—	566	32
Tunisia—						
Coal	76,622	19,625	23,360	33,467	42,656	27,051
Coke	10,635	16,481	5,366	10,012	9,143	8,666
Tar and pitch	180	288	7	9	3	75
Cuba—						
Coal	141,162	47,784	57,460	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Coke	39,893	40,647	69,222	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Tar and pitch	152	383	139	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Dominican Republic—						
Coal, coke, briquettes, etc.	280	1,427	628	384	650	<i>n.a.</i>
French West Indies—						
Guadeloupe—						
Coal	1,125	888	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Martinique—						
Coal	554	15	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Greenland—						
Coal	13,177	9,464	7,556	17,485	14,489	14,950
Guatemala—						
Coal	403	460	152	123	56	149
Coke	53	89	110	136	150	45
Honduras—						
Coal	206	166	147	128	140	182
Coke	19	21	4	—	10	5
Mexico—						
Coal	55,677	39,302	56,632	47,137	49,375	46,048
Coke	3,171	3,026	3,522	6,046	5,954	9,022
Tar	324	237	209	1,253	296	548
Nicaragua—						
Coal	21	19	15	16	9	12
Coke	5	49	42	72	74	50
Panama Republic—						
Coal	200	105	150	30	19	<i>n.a.</i>
Salvador—						
Coal	179	138	176	111	93	99
Coke	130	110	130	119	153	205
Tar	50	79	56	57	58	44
St. Pierre and Miquelon—						
Coal	12,200	12,133	9,302	10,920	9,912	7,358
United States—						
Anthracite	1,016	3,896	2,351	1,318	707	6,771
Bituminous	214,869	166,187	134,532	123,093	146,660	206,759
Lignite	—	40	—	10	—	—
Slack and culm	112,369	107,827	200,033	109,482	—	762
Coke	105,313	108,497	110,049	112,808	112,962	126,681
Briquettes	759	164	165	4,937	6,552	7,496
Tar and pitch	16,984	21,649	25,337	21,088	18,412	33,551
Argentina—						
Coal	1,137,247	1,331,941	1,300,305	1,379,851	1,196,334	609,998
Coke	133,766	101,600	68,055	69,092	44,532	22,259
Tar and pitch	299	1,238	526	391	658	412

(a) See under French West Africa.

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

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Bolivia—						
Coal and coke	5,085	1,333	572	2,821	<i>n.a.</i>	<i>n.a.</i>
Brazil—						
Coal	879,900	557,602	624,458	1,018,764	844,645	877,873
Coke	47,079	45,256	65,999	29,769	43,160	27,061
Chile—						
Coal	283,760	98,095	23,522	262,640	364,594	<i>n.a.</i>
Coke	866	569	632	781	628	<i>n.a.</i>
Tar and pitch	3,513	5,529	8,776	24,669	21,900	<i>n.a.</i>
Colombia—						
Coal	—	5	204	1	18	—
Coke	48	83	40	30	49	23
Peru—						
Coal	20	—	10	—	—	—
Coke	641	655	690	1,828	18,365	4,373
Tar	68	67	49	10	131	128
Surinam—						
Coal	10	6	88	32	<i>n.a.</i>	<i>n.a.</i>
Uruguay—						
Coal	93,370	100,174	49,719	74,892	<i>n.a.</i>	<i>n.a.</i>
Coke	1,963	1,891	1,474	3,269	<i>n.a.</i>	<i>n.a.</i>
Venezuela—						
Coal	1,118	684	131	97	42	3,091
Coke	<i>n.a.</i>	<i>n.a.</i>	733	578	12,958	122,964
Burma—						
Coal	262,930	335,981	402,527	336,536	353,621	325,328
Coke	15,876	5,396	11,917	10,790	7,493	11,413
Formosa—						
Coke	4,474	4,375	4,884	—	—	—
Tar and pitch	2,031	2,643	2,432	300	276	—
Indonesia—						
Coal	36,741	20,830	41,655	34,281	25,075	<i>n.a.</i>
Coke	4,264	150	3,624	254	644	<i>n.a.</i>
Tar	822	98	147	212	53	<i>n.a.</i>
Iraq—						
Coal	1,465	437	2,637	521	} 17,609	<i>n.a.</i>
Coke	290	1,660	993	1,696		<i>n.a.</i>
Tar and pitch	266	70	2,738	5,466		27,110
Israel—						
Anthracite	27,640	20,969	13,990	34,174	} 17,609	20,122
Other coal	1,297	596	10,120	70		27,110
Coke	—	3,801	6,409	11,544		25,598
Japan—						
Anthracite	724,749	497,460	511,210	814,411	1,102,018	1,288,793
Other coal	5,605,450	4,074,973	4,380,232	7,346,876	9,881,599	10,452,607
Coke	70,113	2	1	2	180,054	116,427
Tar and pitch	23,790	4,694	9,323	25,498	23,300	7,528
Korea (South)—						
Coal	729,669	760,106	370,207	35,146	277,236	177,175
Lebanon—						
Coal	4,046	1,999	4,410	(a) 1,083	(a) 1,033	<i>n.a.</i>
Coke	1,423	3,101	2,376	4,036	2,929	<i>n.a.</i>
Briquettes	—	—	2,740	<i>n.a.</i>	—	<i>n.a.</i>
Philippine Republic—						
Coal	1	155	49	23	2	78
Coke	5,643	6,353	8,114	8,849	7,523	12,191
Tar	239	272	193	156	725	588
Syria—						
Coal	1,522	906	1,533	274	<i>n.a.</i>	<i>n.a.</i>
Coke	1,104	1,408	1,829	2,285	2,239	1,918
Briquettes	1,881	1,672	1,762	1,859	2,088	7,599

(a) Including briquettes.

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

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Thailand—						
Coal	15,847	12,450	11,536	10,860	—	—
Coke	2,389	1,658	1,399	2,618	2,389	2,259
Tar	55	3	—	37	48	39
Vietnam (South)—						
Coal	47,938	63,469	15,333	10,553	5,184	<i>n.a.</i>
French Polynesia—						
Coal	9	1,009	—	—	25	12
New Caledonia—						
Coal	180,859	160,742	144,570	136,941	66,328	46,759
Coke	174,042	67,956	32,084	128,554	199,534	101,809

COBALT
PRODUCTION OF COBALT ORE
(Metal content)

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Northern Rhodesia (a) ..	1,357	1,644	2,027	1,862	1,721	846
Uganda (b)	500	500	660	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Canada (c)	1,751	1,210	1,406	1,593	1,421	1,536
Australia (d)	12	15	14	14	17	15
OTHER COUNTRIES						
Finland (e)	1,620	1,898	1,908	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Congo Republic (f) ..	8,061	6,398	8,298	8,092	8,195	9,530
Morocco	447	910	1,188	1,251	1,270	1,413
United States	1,850	2,162	1,337	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
New Caledonia	—	128	180	—	—	—
TOTAL	16,000	15,000	17,000	16,000	15,000	16,000

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) Cobalt content of concentrates stockpiled.
- (c) Metal recovered from smelter products plus cobalt contained in cobalt ores and residues exported.
- (d) Estimated cobalt content of cobalt oxide.
- (e) Cobalt content of pyrites.
- (f) Electrolytic cobalt plus recoverable cobalt in cobalt alloy.

METAL PRODUCTION OF COBALT

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Northern Rhodesia ..	1,073	1,048	1,141	961	678	715
OTHER COUNTRIES						
France	258	395	301	525	540	551
Germany (Federal) (a) ..	853	978	1,380	1,501	1,591	1,620
Norway (c)	274	319	384	470	546	592
Congo Republic	5,525	4,717	5,926	5,530	6,384	8,929
United States (b)	1,954	1,624	1,099	688	<i>n.a.</i>	<i>n.a.</i>

Cobalt and its compounds are also known to have been produced in the United Kingdom, Canada, Belgium and the U.S.S.R.

- (a) Obtained chiefly from pyrite sinter imported from Cyprus, Finland, Norway, Spain, Sweden and other countries. Including secondary metal.
- (b) In addition, the following amounts of cobalt oxide, hydrate, salts and driers were produced (in terms of cobalt content):

Year	Long tons	Year	Long tons
1957 ..	662	1960 ..	699
1958 ..	580	1961 ..	601
1959 ..	605	1962 ..	645

- (c) Obtained from copper-nickel matte imported from Canada.

EXPORTS OF COBALT, ETC.

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Cobalt (a)	877	30	52	42	44	42
Cobalt oxide	314	394	316	244	274	332
Other compounds ..	534	557	684	648	684	601
Rhodesia and Nyasaland—						
Cobalt	1,078	934	1,329	1,176	540	880
Cobalt alloy	170	—	27	131	5	—
Canada—						
Ore (Co content) ..	7	—	—	—	—	—
Cobalt	962	457	304	377	270	242
Cobalt alloys	6	4	1	1	—	—
Cobalt oxides and salts ..	277	233	491	525	679	728
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Cobalt (b)	1,110	1,091	2,325	2,449	1,046	2,352
France—						
Ingots and scrap ..	34	18	62	87	(a) 228	(a) 429
Cobalt salts	4	1	6	18	6	11
Germany (Federal)—						
Cobalt (c)	381	453	796	788	820	1,002
Cobalt oxide	n.a.	108	65	50	16	19
Norway—						
Cobalt	n.a.	n.a.	314	382	626	635
Sweden—						
Cobalt	—	—	3	17	15	13
U.S.S.R.—						
Cobalt	145	206	196	214	261	200
Congo Republic—						
Cobalt	4,828	5,139	6,311	(d) 6,000	(d) 6,400	(d) 8,900
Cobalt-copper ingots ..	7,094	4,274	5,162	(d) 5,600	(d) 4,400	(d) 1,500
Morocco—						
Ore	4,727	8,196	10,845	12,027	5,243	2,390
United States—						
Ore and metal (c) ..	477	785	310	816	926	865

(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.

IMPORTS OF COBALT, ETC.

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Cobalt	738	707	927	1,653	1,417	1,238
Cobalt alloys	76	49	28	18	12	3
Cobalt oxide	386	317	561	808	932	1,048
Canada—						
Ore	(800 lbs.)	—	—	—	—	—
Cobalt oxide	5	7	11	9	13	18
Hong Kong—						
Cobalt oxide	r 4	34	r 37	r 43	20	36
Australia (a)—						
Cobalt ingots, etc. ..	43	38	58	83	46	37
Cobalt oxide	11	36	15	9	17	12
Cobalt salts	21	51	76	69	59	3
New Zealand—						
Cobalt salts	291	315	341	330	372	172
OTHER COUNTRIES						
Denmark—						
Cobalt	n.a.	n.a.	20	40	7	12
France—						
Ore	3,801	6,593	6,920	6,678	9,162	9,542
Ingots and scrap	44	18	49	172	(d) 157	(d) 168
Cobalt oxide	58	141	85	115	68	79
Germany (Federal)—						
Ore	—	1	—	—	n.a.	n.a.
Cobalt (b)	227	414	338	857	758	570
Cobalt oxide	n.a.	185	176	236	209	211
Italy—						
Cobalt (b)	102	91	182	453	417	220
Cobalt oxide	n.a.	n.a.	92	126	132	147
Netherlands—						
Cobalt	n.a.	n.a.	n.a.	172	213	140
Portugal—						
Cobalt oxide	1	3	5	2	1	5
Sweden—						
Cobalt	129	79	158	321	308	150
Yugoslavia—						
Cobalt	4	19	29	43	21	36
Mexico—						
Cobalt oxide	31	12	30	36	29	26
United States—						
Ore	(c) 903	—	345	2,885	—	—
Co content	371	—	16	140	—	—
Cobalt metal	7,220	6,490	8,968	4,822	4,480	5,257
Cobalt oxide	289	374	695	651	304	436
Cobalt salts	163	105	124	103	71	54
Argentina—						
Cobalt salts	29	28	46	36	36	7
Brazil—						
Cobalt oxide	24	23	24	45	30	43
Japan—						
Ore	25	—	—	1	—	n.a.
Ingots, slabs and grains	474	281	913	1,130	1,546	1,093
Cobalt oxide	122	132	197	230	282	240

(a) Years ended June 30 of that stated.

(b) Including alloys and scrap.

(c) As recorded in official trade returns. According to U.S. Bureau of Mines includes 841 tons of white alloy.

(d) Including alloys.

COPPER
PRODUCTION OF COPPER ORE
(Metal content)

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom	11	13	11	16	14	6
Kenya (f)	1,500	1,400	1,400	1,200	1,800	(b) 1,500
Northern Rhodesia (d) ..	428,851	393,814	534,673	567,255	565,656	553,442
Southern Rhodesia	2,881	7,527	10,729	13,506	13,610	13,524
Tanganyika	1,052	1,581	1,081	1,254	99	—
Uganda	10,467	(h) 10,831	(h) 11,943	(h) 14,515	(h) 13,163	(h) 15,331
Canada (g)	320,633	308,137	352,919	392,198	392,042	409,456
Cyprus (e)	38,996	32,691	35,695	34,907	28,201	24,763
India	8,404	8,502	8,368	8,705	8,659	9,745
Australia	59,255	75,715	94,950	109,435	95,626	110,264
New Zealand	—	—	—	—	—	10
Fiji	100	n.a.	n.a.	n.a.	n.a.	n.a.
TOTAL	872,200	r 840,000	1,052,000	1,143,000	1,119,000	1,138,000
Irish Republic	—	652	4,229	6,145	5,834	2,350
OTHER COUNTRIES						
Albania (i)	1,100	1,700	2,000	2,100	2,300	2,500
Austria	2,341	2,467	2,474	1,993	1,926	2,003
Bulgaria	7,100	7,000	10,800	13,900	15,000	18,000
Finland (d)	25,615	28,411	28,900	28,000	33,500	34,600
France (d)	366	676	529	553	359	246
Germany—						
Federal Republic	1,359	1,325	1,753	1,750	1,632	1,815
East (b)	16,300	18,000	20,000	20,000	20,000	20,000
Italy	3,482	3,637	3,518	2,948	2,373	2,427
Norway	14,988	15,626	14,132	15,148	13,732	15,290
Poland (c)	7,400	(b) 7,900	(b) 8,800	(b) 10,400	(b) 11,500	(b) 12,800
Portugal	553	731	708	517	556	513
Spain (b)	20,000	20,000	20,000	20,000	20,000	20,000
Sweden	17,790	18,262	17,035	r 17,201	16,633	18,781
U.S.S.R. (b)	400,000	430,000	430,000	450,000	470,000	500,000
Yugoslavia	32,931	34,679	34,054	32,751	37,310	50,900
Algeria	487	449	59	117	599	767
Angola	1,678	1,506	1,726	1,882	912	1,116
Congo Republic (h)	238,418	233,810	r 277,861	r 297,523	290,574	292,296
Congo, Republic of	—	—	—	—	158	(i) 825
Mauritania	—	—	41	n.a.	n.a.	n.a.
Morocco	620	1,027	1,166	1,240	1,710	2,458
South Africa	45,501	48,763	49,729	45,399	51,743	45,638
South West Africa	26,899	28,000	31,000	20,000	25,000	23,000
Cuba	13,666	12,493	8,877	11,659	(b) 10,000	(b) 6,500
Haiti	—	—	—	900	3,400	—
Mexico (d)	59,643	63,937	56,369	59,377	48,535	46,380
Nicaragua	—	—	894	4,820	6,178	7,157
United States (d)	970,410	874,401	736,470	964,437	1,040,317	1,096,804
Bolivia (a)	3,857	2,829	2,197	2,235	2,048	2,325

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

(b) Estimated.

(c) Source: United States Bureau of Mines.

(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): 1957—26,800; 1958—22,800; 1959—25,200; 1960—24,000; 1961—21,600; 1962—20,400.

(f) Copper content of cement copper.

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

(h) Smelter.

(i) United States Bureau of Mines' estimate.

PRODUCTION OF COPPER ORE (cont.)

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Brazil (e)	1,200	1,200	1,300	1,300	1,300	1,200
Chile (d)	r 478,151	r 458,960	r 537,401	r 527,787	529,767	577,000
Ecuador	15	47	132	99	99	155
Peru	56,271	52,772	(d) 49,030	(d) 178,851	(d) 194,924	(d) 164,156
Burma (b)	130	130	150	140	110	150
China (a) (b)	15,000	30,000	40,000	40,000	60,000	75,000
Formosa (c)	2,010	1,651	1,708	n.a.	n.a.	n.a.
Israel	—	256	3,300	4,300	4,700	5,100
Japan	80,417	80,212	83,902	r 87,774	94,886	101,597
Korea (South)	450	350	250	300	250	550
Philippine Republic	39,744	46,287	48,739	43,315	51,056	53,864
Turkey (a)	24,016	22,174	23,468	r 25,602	19,678	25,368
TOTAL	2,600,000	2,600,000	2,600,000	2,900,000	3,100,000	3,200,000
WORLD'S TOTAL	3,500,000	3,400,000	3,600,000	4,100,000	4,200,000	4,300,000

Ores containing copper are also known to have been produced in Czechoslovakia, Hungary, Argentina, Malaya and Iran.

- (a) Smelter.
- (b) Estimated.
- (c) Copper content of concentrates and cement copper.
- (d) Amount estimated as recoverable.
- (e) United States Bureau of Mines' estimate.

METAL PRODUCTION OF COPPER

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Northern Rhodesia	416,573	375,146	r 531,334	r 558,890	559,942	538,395
Southern Rhodesia	—	—	—	n.a.	11,531	12,142
Uganda	7,465	10,831	11,943	14,515	13,163	15,331
Canada (a)	283,362	285,200	326,839	355,319	354,345	333,616
India	7,848	7,840	7,553	r 8,769	8,204	9,626
Australia	50,403	64,608	68,494	71,037	62,497	87,337
TOTAL	765,651	743,625	r 946,163	r 1,009,000	1,009,682	996,447
OTHER COUNTRIES						
Albania	910	(g) 980	(g) 980	(g) 1,100	(g) 1,200	(g) 1,200
Austria (b)	8,755	9,397	10,358	11,575	11,646	12,666
Bulgaria	4,981	6,025	6,440	7,719	(g) 10,000	(g) 11,000
Finland	25,419	30,244	32,090	30,481	33,800	33,394
Germany—						
Federal Republic	63,300	69,000	63,100	61,400	63,200	67,700
East (e)	20,000	20,000	20,000	20,000	20,000	20,000
Italy	131	104	361	n.a.	n.a.	n.a.
Norway	15,578	17,291	18,945	21,273	21,623	18,851
Poland	19,612	17,095	17,200	21,400	21,800	23,700
Spain	5,892	4,960	6,835	8,072	17,883	18,375
Sweden	19,171	19,882	24,930	21,363	20,377	22,410
U.S.S.R. (c) (e)	400,000	430,000	430,000	450,000	470,000	500,000
Yugoslavia	33,202	33,140	34,694	35,165	30,381	45,019
Angola	1,600	1,369	1,396	1,400	800	700
Congo Republic	238,418	233,810	r 277,861	r 297,523	290,574	292,296
South Africa	42,374	47,684	48,074	45,399	51,395	45,451
South-West Africa	—	—	—	—	—	1,195
Mexico	55,412	59,919	54,558	57,912	46,873	44,801
United States (d)	1,051,915	954,511	751,603	1,101,454	1,077,995	1,180,905
Bolivia (h)	—	88	117	175	117	n.a.
Chile	r 443,740	r 431,837	r 503,898	r 494,147	494,102	548,423
Peru	40,486	37,859	r 32,292	r 160,908	177,659	145,498
China (e)	15,000	30,000	40,000	40,000	60,000	75,000
Formosa	1,681	1,637	1,774	1,752	2,232	2,452
Japan (f)	107,251	101,769	152,396	184,371	199,625	208,778
Korea (South)	780	791	736	994	1,300	2,175
Turkey	24,016	22,174	23,468	r 25,602	19,678	25,368
TOTAL	2,600,000	2,600,000	2,600,000	3,100,000	3,100,000	3,300,000
WORLD'S TOTAL	3,400,000	3,300,000	3,500,000	4,100,000	4,100,000	4,300,000

(a) Copper content of blister and anode copper.

(b) Including secondary metal.

(c) May include secondary metal.

(d) In addition, secondary metal was recovered as follows (long tons): 1957—751,685; 1958—711,954; 1959—830,866; 1960—778,025; 1961—757,981; 1962—823,061.

(e) Estimated.

(f) In addition, secondary metal was recovered as follows (long tons): 1957—32,726; 1958—20,234; 1959—38,512; 1960—59,818; 1961—73,005; 1962—57,381.

(g) United States Bureau of Mines' estimate.

(h) Exports.

EXPORTS OF COPPER, ETC.*

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Unwrought—Refined ..	35,325	55,539	77,403	49,090	71,510	108,906
Alloys ..	27,549	33,044	30,755	29,393	37,576	46,518
Scrap (a) ..	354	772	707	444	1,435	8,010
Semi-manufactures ..	100,861	126,698	56,322	64,304	38,035	35,426
do. alloys ..	21,370	24,110	26,314	27,731	34,716	27,213
Sulphate ..	28,427	26,515	31,086	25,366	19,463	18,382
Kenya—						
Unwrought (a) ..	2,474	3,328	3,167	3,053	3,667	4,006
Rhodesia and Nyasaland—						
Ore and concentrates ..	14,362	23,184	22,611	30,880	11,802	5,593
Matte ..			8,932	8,461	12,996	2,578
Unwrought—						
Blister ..	171,169	146,273	160,178	151,070	146,802	118,941
Electrolytic ..	237,441	256,360	354,206	396,821	390,030	404,547
Other ..	—	—	2,091	37	8,195	12,808
Tanganyika—						
Lead concentrates (Cu content) ..	1,052	1,581	1,068	1,247	94	—
Uganda—						
Unwrought (a) ..	7,404	10,967	11,797	14,713	12,930	15,539
Canada—						
Ore, matte, etc. (Cu content) ..	41,561	27,068	28,634	42,529	38,298	85,307
Unwrought ..	177,494	200,569	198,604	248,273	237,720	199,146
Scrap, slag, etc. ..	10,965	9,899	5,568	10,291	(d) 6,959	(d) 7,264
Scrap alloys ..	8,338	6,324	6,603	11,014	8,448	6,803
Semi-manufactures ..	10,530	12,833	15,080	18,977	25,108	25,099
do. alloys (c) ..	1,075	1,873	2,488	2,305	3,576	3,458
Cyprus—						
Ore and concentrates ..	139,192	115,125	123,519	115,784	101,585	92,889
Cupreous pyrites ..	226,334	228,821	307,026	248,931	138,477	105,622
Copper cement ..	3,900	4,068	3,693	2,212	1,759	1,667
Hong Kong—						
Unwrought (a) ..	—	97	20	31	23	58
Scrap (a) ..	13,010	4,815	6,896	6,712	7,822	6,648
Semi-manufactures (a) ..	50	831	191	401	214	68
India—						
Semi-manufactures (a) ..	59	93	184	(b) 326	(b) 248	(b) 274
Malaya—						
Ore ..	1,600	—	2,163	1,239	1,511	1,250
Semi-manufactures (a) ..	165	163	116	129	222	452
Sulphate ..	6	2	6	9	12	2
Australia—						
Ores, concentrates and dross (Cu content) ..	6,872	7,272	20,095	36,210	28,012	21,828
Unwrought—						
Blister ..	19,079	14,421	16,225	502	1,022	—
Refined ..	1	—	2,749	13,577	23,073	16,497
Alloys ..	193	18	100	45	77	208
Scrap (a) ..	n.a.	558	5,483	5,195	12,900	6,833
Semi-manufactures (a) ..	3,257	1,967	1,845	3,334	4,706	5,787
Fiji—						
Ore ..	—	983	97	47	—	—
New Zealand—						
Unwrought alloys ..	3	40	161	33	170	8
Scrap (a) ..	1,870	1,370	268	1,824	1,439	609
Semi-manufactures, alloys ..	181	70	686	892	189	654

*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.

EXPORTS OF COPPER, ETC. (cont.)

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES (cont.)						
Papua— Ore and concentrates ..	20	n.a.	n.a.	n.a.	n.a.	n.a.
Irish Republic— Ore and concentrates ..	n.a.	n.a.	26,893	30,255	28,024	14,950
Scrap	1,087	1,063	1,086	1,325	1,491	1,262
OTHER COUNTRIES						
Austria—						
Unwrought	801	777	1,301	1,229	1,312	1,828
do. alloys	163	189	117	109	106	598
Scrap (a)	168	157	129	126	97	709
Semi-manufactures (a)	1,330	1,307	1,605	3,121	4,825	4,354
Sulphate	1,517	1,076	59	233	1,262	1,338
Belgium-Luxemburg						
E.U.—						
Unwrought (a) (b) ..	117,486	133,943	163,387	169,387	195,223	206,804
Scrap	528	2,377	3,387	2,836	5,819	8,745
Semi-manufactures (a)	37,190	43,578	41,893	59,254	60,810	56,322
Sulphate	23,057	17,111	21,670	20,663	15,941	12,585
Denmark—						
Unwrought	200	205	173	272	5	27
do. alloys	328	170	335	224	142	227
Scrap (a)	1,781	2,361	2,540	2,766	2,969	5,342
Semi-manufactures (a)	69	46	239	357	699	712
Finland—						
Unwrought (a)	2,144	10,707	8,758	4,767	5,501	7,196
Semi-manufactures (a)	375	2,001	1,581	2,030	2,991	3,158
France—						
Ore	—	—	—	984	675	—
Matte	1	—	44	4,373	2,658	421
Unwrought—						
Unrefined	10	76	3,043	8,753	5,956	9,472
Refined	460	509	1,520	1,822	1,554	2,436
Alloys	98	164	6,272	12,915	6,719	5,773
Scrap	62	58	119	3,345	3,203	5,040
do. alloys	813	257	4,876	10,737	15,188	17,294
Semi-manufactures (a)	8,399	12,229	23,532	24,051	22,309	17,424
Sulphate	5,886	5,366	5,013	9,670	8,237	7,320
Germany (Federal)—						
Ore	30	—	—	—	418	472
Unwrought—						
Unrefined	600	1,480	1,104	548	45	89
Refined	45,767	63,195	87,433	79,528	78,997	114,215
Alloys	85	418	372	510	1,046	1,843
Scrap (a)	1,368	4,519	6,257	6,519	11,230	14,504
Semi-manufactures (a)	71,798	90,997	105,839	68,741	57,414	63,532
Sulphate	5,248	4,875	4,534	4,780	5,491	4,319
Italy—						
Ore	1	—	3,272	2,015	2,246	3,327
Unwrought (a)	45	1	121	33	169	36
Scrap (a)	—	—	772	60	121	190
Semi-manufactures (a)	7,943	11,308	12,909	11,310	13,234	9,963
Sulphate	3,250	6,610	1,772	6,316	4,369	7,250
Netherlands—						
Ore	—	—	722	4,133	6,804	263
Unwrought	853	795	1,480	849	264	122
do. alloys	3,432	5,734	6,414	6,468	6,009	5,434

(a) Including alloys.

(b) Including matte.

EXPORTS OF COPPER, ETC. (cont.)

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Netherlands <i>(cont.)</i> —						
Scrap (a)	10,282	11,694	14,396	13,190	14,374	17,338
Semi-manufactures (a)	4,833	13,153	8,719	6,523	6,555	7,992
Sulphate	33	27	18	27	50	36
Norway—						
Ore	12,841	10,538	10,316	9,618	10,438	11,205
Matte	13,005	12,759	17,552	16,811	19,568	15,510
Unwrought—						
Unrefined	14,212	16,635	4,003	4,114	3,987	4,161
Refined			13,391	13,915	14,769	13,512
Alloys			1,986	2,250	2,283	2,327	1,846	1,197
Scrap (a)	4,535	2,219	1,304	1,492	1,507	1,572
Semi-manufactures (a)	483	895	2,707	3,533	2,436	2,198
Portugal—						
Unwrought	721	16	275	351	556	471
Semi-manufactures (a)				90	69	62
Sulphate				67	245	248	194	59	201
Spain—						
Unwrought (a)	—	5	1,180	2,801	209	70
Semi-manufactures (a)	—	4	53	593	63	26
Sweden—						
Unwrought	15,797	12,682	14,782	14,947	15,953	15,884
do. alloys	1,675	2,839	2,828	1,511	1,745	1,890
Scrap (a)	1,035	669	583	703	719	545
Semi-manufactures (a)	23,370	27,870	31,679	32,344	30,226	28,691
Sulphate	5	—	2	3	2	8
Switzerland—						
Unwrought (a)	1,466	2,698	3,310	2,599	1,706	2,052
Scrap (a)	2,650	2,875	2,961	403	527	1,802
Semi-manufactures (a)	9,428	10,455	12,213	9,435	8,543	7,705
U.S.S.R.—						
Unwrought (c)	59,600	43,100	57,900	63,400	59,400	70,200
Sulphate	9,000	8,000	8,300	9,300	9,700	9,300
Yugoslavia—						
Unwrought (a)	197	21	—	—	100	843
Semi-manufactures (a)	7,471	3,817	10,859	12,635	13,163	13,895
Sulphate	9,142	133	776	6,707	984	2,953
Algeria—						
Ore	431	2,436	797	410	1,544	3,516
Scrap (a)	1,493	1,353	2,095	2,794	<i>n.a.</i>	<i>n.a.</i>
Semi-manufactures (a)	1,477	1,797	1,411	1,797	<i>n.a.</i>	<i>n.a.</i>
Angola—						
Ore	—	—	—	—	—	90
Unwrought	1,764	1,513	1,584	1,949	871	764
Congo Republic—						
Unwrought—						
Blister	114,160	105,871	121,615	} b 280,000	(b) 300,000	(b) 280,000
Refined	123,901	130,344	155,801			
Copper-cobalt ingots	7,094	4,274	5,162			
Morocco—						
Ore	1,674	9,898	4,619	4,738	4,357	5,372
Scrap (a)	793	586	1,330	1,407	1,266	864
South Africa—						
Concentrates (<i>Cu content</i>)	(d) 1,580	(d) 754	(d) 441	—	238	42
Unwrought	38,482	43,985	42,853	44,573	51,586	43,447
South West Africa—						
Ore (<i>Cu content</i>)	1,361	827	2,195	2,153	4,537	1,440
Lead concentrates (<i>Cu content</i>)	26,638	27,516	30,154	19,179	23,587	21,938
Upper Volta—						
Ore	—	—	—	—	—	—

(a) Including alloys.

(b) Estimated.

(c) Including wire.

(d) Including matte.

EXPORTS OF COPPER, ETC. (cont.)

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Cuba—						
Ore	82,735	49,692	(c) 63,360	n.a.	n.a.	n.a.
Scrap	517	399	2,189	n.a.	n.a.	n.a.
Mexico—						
Ore, concentrates, etc. . .	21,843	20,143	3,547	20,655	3,497	6,912
Unwrought—						
Unrefined	34,550	34,472	28,497	28,115	20,746	24,049
Refined	8,778	8,021	12,969	6,161	3,329	4,930
Semi-manufactures (a) .. .	159	527	444	264	543	1,213
United States—						
Ores, matte, blister, etc.						
<i>(Cu content)</i>	13,978	10,246	2,662	9,920	3,998	1,710
Unwrought	308,951	343,632	141,909	387,288	385,940	300,468
do. alloys	333	246	342	624	419	306
Scrap	43,740	19,519	9,572	r 52,554	31,479	11,257
do. alloys	62,496	25,448	26,255	r 109,085	104,155	32,330
Semi-manufactures	13,067	8,130	7,895	8,647	9,519	9,692
do. alloys	4,696	4,228	4,453	4,101	4,641	6,265
Sulphate	30,039	6,471	2,386	13,251	6,764	1,711
Argentina—						
Ores	2,801	2,705	2,983	1,383	1,590	1,681
Matte	—	246	224	241	209	206
Bolivia—						
Ore, etc. <i>(Cu content)</i> .. .	3,857	2,741	2,080	2,060	1,931	2,325
Unwrought	—	88	117	175	117	—
Chile—						
Ores and concentrates	24,418	35,114	34,172	37,011	32,468	n.a.
Precipitate	4,100	3,252	3,300	3,915	3,688	n.a.
Copper cement	1,240	3,256	4,335	3,759	4,180	n.a.
Unwrought—						
Blister	232,271	246,759	253,499	268,726	299,069	289,775
Refined	63,023	r 52,267	r 69,422	r 74,461	73,797	73,715
Electrolytic	149,948	101,236	146,793	138,770	143,417	162,712
<i>Cu content (b)</i>	477,431	425,217	501,262	514,130	534,825	n.a.
Semi-manufactures	2,800	23,367	32,497	4,839	3,314	n.a.
Peru—						
Ore <i>(Cu content)</i>	13,957	12,559	12,918	18,578	15,313	14,579
Matte, etc. <i>(do.)</i>	558	642	1,093	1,092	1,289	2,889
Precipitate <i>(do.)</i>	485	1,185	955	812	808	1,476
Unwrought <i>(do.)</i>	34,838	38,631	33,198	144,855	178,215	152,495
Burma—						
Matte	419	216	396	364	504	398
Formosa—						
Ore	9,547	10,580	12,992	6,496	8,661	12,598
Unwrought	n.a.	n.a.	n.a.	n.a.	4,360	—
Japan—						
Unwrought	1,657	1,335	1,451	1,585	1,336	2,050
Semi-manufactures (a) .. .	3,646	11,082	10,901	11,271	12,249	15,897
Sulphate	11	51	27	8	160	211
Korea (South)—						
Unwrought	n.a.	1,076	70	284	721	39
Philippine Republic—						
Ore and concentrates .. .	125,961	178,061	156,279	171,694	243,420	180,647
Copper-gold-silver concentrates .. .	36,589	22,421	7,398	19,010	22,797	35,173
Scrap	—	184	581	497	2,858	1,706
Turkey—						
Ore	—	—	15,887	747	—	35
Unwrought	14,406	12,495	10,874	17,765	8,051	14,200

(a) Including alloys.

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

(c) Including cupreus pyrites.

IMPORTS OF COPPER, ETC.*

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Unwrought—						
Electrolytic	292,637	308,128	269,386	375,683	345,580	380,543
Other refined	45,238	51,370	49,324	53,504	34,790	30,109
Blister	115,182	95,878	95,233	111,961	140,445	103,984
Alloys	115	79	158	296	159	78
Scrap	1,343	438	575	2,043	371	514
do. alloys	2,669	493	1,105	4,261	1,591	1,811
Semi-manufactures (a)	2,364	3,423	3,366	6,323	4,340	3,917
Ghana—						
Semi-manufactures (a)	312	434	387	738	653	715
Kenya—						
Unwrought (a)	51	1	1	1	—	32
Semi-manufactures (a)	127	117	127	158	205	164
Sulphate	138	14	54	68	49	25
Mauritius—						
Semi-manufactures (a)	180	170	108	204	106	46
Nigeria—						
Unwrought and semi-manufactures (a) ..	621	r 599	605	r 627	858	1,776
Rhodesia and Nyasaland—						
Semi-manufactures (a)	1,207	1,485	1,380	996	829	1,011
Sierra Leone—						
Semi-manufactures (a)	110	68	83	55	97	142
Tanganyika—						
Unwrought (a)	10	1	—	5	3	—
Semi-manufactures (a)	125	100	127	111	79	72
Sulphate	41	31	18	6	—	1
Uganda—						
Semi-manufactures (a)	42	80	37	75	84	67
Zanzibar—						
Semi-manufactures (a)	28	9	4	5	3	6
Canada—						
Unwrought	3,727	1	93	22	3	124
Scrap (a)	3,444	1,613	3,424	2,781	3,654	489
Semi-manufactures ..	3,054	5,072	3,014	2,972	3,771	1,234
do. alloys	1,978	2,886	3,100	1,582	1,897	2,745
Sulphate	909	1,005	1,168	998	345	390
Barbados—						
Semi-manufactures (a)	80	78	107	81	112	75
Jamaica—						
Semi-manufactures (a)	198	202	400	255	246	135
Sulphate	4,021	2,608	1,479	1,647	762	2
Trinidad and Tobago—						
Semi-manufactures (a)	268	163	201	251	511	184
Sulphate	28	12	31	25	28	16
British Guiana—						
Semi-manufactures (a)	36	31	27	78	41	n.a.
Ceylon—						
Unwrought (a)	20	64	24	28	16	26
Semi-manufactures (a)	690	584	548	551	583	395
Cyprus—						
Semi-manufactures (a)	65	51	90	142	121	87
Hong Kong—						
Unwrought (a)	708	51	90	103	281	154
Scrap (a)	11,459	1,521	1,852	1,223	2,233	2,344
Semi-manufactures (a)	4,361	4,483	4,679	6,412	8,099	7,387

*See footnote on p.108 concerning the descriptions "unwrought" copper and "semi-manufactures" used in these tables.

(a) Including alloys.

IMPORTS OF COPPER, ETC. (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962					
COMMONWEALTH COUNTRIES											
<i>(cont.)</i>											
India—											
Unwrought	43,466	47,861	45,750	(e) 55,892	(e) 36,203	(e) 68,489					
do. alloys	195	27	4	(e) 66	(e) 64	(e) 152					
Scrap	1,048	2,155	3,031	(e) 3,330	(e) 2,330	(e) 1,358					
Semi-manufactures (a)	5,807	2,985	3,461	(e) 5,747	(e) 6,069	(e) 5,407					
Sulphate	1,738	431	30	(e) 3	(e) 1	(e) —					
Malaya—											
Unwrought (a)	137	91	23	64	63	51					
Semi-manufactures (a)	1,902	1,079	1,032	1,920	2,288	2,736					
Sulphate	252	47	140	164	240	162					
North Borneo—											
Semi-manufactures (a)	71	63	96	77	96	66					
Pakistan—											
Unwrought	220	264	712	157	2,112	2,472					
Scrap	—	3	—	19	262	146					
Semi-manufactures	4,061	1,651	1,428	1,792	3,309	n.a.					
Sulphate	156	52	18	42	87	183					
Sarawak—											
Semi-manufactures (a)	71	23	r 59	57	205	94					
Australia (c)—											
Unwrought	3,251	1,550	2,342	1,965	6,746	5,386					
do. alloys	14	33	10	48	26	(b) 4					
Scrap (a)	(b) 106	272	55	73	351	118					
Semi-manufactures (a)	2,088	3,248	2,577	3,301	3,039	5,560					
Sulphate	165	175	175	338	623	1,131					
Fiji—											
Semi-manufactures (a)	54	29	14	35	89	110					
New Zealand—											
Unwrought (a)	14	20	33	62	95	148					
Semi-manufactures (a)	8,295	9,671	8,488	10,448	11,237	11,126					
Sulphate	1,088	288	r 211	221	42	n.a.					
Irish Republic—											
Semi-manufactures	r 2,020	r 2,708	r 2,235	r 2,979	2,864	4,339					
Sulphate	1,838	2,272	2,423	2,301	2,569	1,578					
OTHER COUNTRIES											
Austria—											
Ore	149	—	137	436	542	498					
Unwrought—											
Unrefined	} 13,988	17,820	{ 3,260	2,938	5,240	4,817					
Refined							} 82	162	515	104	129
Alloys											
Scrap	737	1,408	158	813	1,532	691					
do. alloys	737	445	1,049	1,152	1,118	1,907					
Semi-manufactures (a)	1,823	2,459	3,225	2,995	4,011	3,813					
Belgium-Luxemburg											
E.U.—											
Ore	1,016	3,521	5,561	9,133	5,750	5,875					
Unwrought (a) (d)	177,231	181,649	194,949	270,204	272,778	301,776					
Scrap	8,649	9,463	15,809	18,909	19,540	31,559					
Semi-manufactures (a)	3,210	3,242	2,909	4,244	5,886	6,636					
Sulphate	29	33	82	74	78	121					
Denmark—											
Unwrought	3,983	3,938	4,647	4,928	3,546	4,566					
do. alloys	823	293	141	323	183	228					
Scrap (a)	259	57	224	72	279	105					
Semi-manufactures (a)	12,433	15,125	17,998	19,189	22,011	24,832					
Sulphate	2,219	2,415	2,669	2,248	3,026	2,286					

(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	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Finland—						
Unwrought (a) ..	893	527	1,045	5,472	6,257	6,229
Semi-manufactures (a)	499	908	983	2,287	3,498	2,022
Sulphate	15	115	49	85	403	708
France—						
Unwrought—						
Unrefined	5,293	4,800	4,969	5,672	10,413	4,839
Refined	178,389	212,163	158,522	203,327	219,233	223,100
Alloys	4,542	971	765	1,656	907	2,096
Scrap	3,737	4,615	1,171	1,517	2,876	2,678
do. alloys	9,820	6,036	1,908	2,777	3,649	6,215
Semi-manufactures (a)	2,560	2,909	2,927	3,548	4,729	6,086
Sulphate	3,654	3,786	—	1,453	4,466	3,247
Germany (Federal)—						
Ore	174,692	134,419	134,865	137,301	127,968	131,513
Burnt cupreous pyrites	953,579	1,103,666	1,198,628	1,345,843	1,209,333	1,095,231
Matte	13,394	10,264	9,562	8,374	7,979	7,335
Unwrought—						
Unrefined	86,819	101,883	95,457	118,396	120,142	99,424
Refined	192,277	227,787	242,835	305,103	341,324	296,063
Alloys	19,368	27,059	39,269	36,711	30,555	36,090
Scrap (a)	41,413	37,324	34,987	61,385	33,594	26,605
Semi-manufactures (a)	8,933	19,080	33,880	21,906	27,204	19,788
Sulphate	534	376	676	425	592	542
Greece—						
Unwrought—						
Unrefined	991	1,826	2,726	3,173	2,082	4,891
Refined					1,872	2,344
Sulphate	2,696	4,840	6,018	7,601	5,865	6,127
Hungary—						
Unwrought	10,460	12,038	16,172	18,089	18,616	18,534
Sulphate	14,481	14,847	10,679	4,682	6,216	7,224
Iceland—						
Semi-manufactures (a)	214	230	302	239	253	283
Italy—						
Unwrought—						
Unrefined	10,629	10,074	2,792	15,736	12,066	12,464
Refined (a)	108,655	95,193	108,035	174,462	183,021	223,834
Scrap (a)	12,811	8,172	5,232	16,480	22,987	23,070
Semi-manufactures (a)	2,470	3,099	3,189	5,659	5,668	3,668
Sulphate	3,337	4,026	4,099	2,165	2,073	1,390
Netherlands—						
Ore	2	—	746	4,580	8,287	—
Unwrought	19,564	28,302	25,992	31,561	29,547	21,349
do. alloys	1,188	1,059	1,357	1,615	1,278	1,725
Scrap (a)	2,312	4,007	4,275	4,608	4,858	4,846
Semi-manufactures (a)	33,076	28,849	23,156	41,607	45,772	40,170
Sulphate	1,128	1,861	2,464	2,119	2,073	2,172
Norway—						
Copper-nickel matte ..	45,823	48,398	54,159	60,695	63,328	59,896
Unwrought	4,329	5,257	3,428	4,430	4,247	5,110
do. alloys	1,928	1,047	411	778	250	429
Scrap (a)	426	377	168	330	318	95
Semi-manufactures (a)	12,204	13,025	13,852	15,717	17,727	18,538
Sulphate	342	294	291	424	343	398
Poland—						
Concentrates	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	5,269	10,683	9,060
Unwrought	9,480	23,403	25,569	20,533	32,331	35,923
Sulphate	<i>n.a.</i>	787	605	2,716	1,921	5,305

(a) Including alloys.

IMPORTS OF COPPER, ETC. (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Portugal—						
Ore and concentrates ..	1,389	1,863	3,780	3,250	4,132	9,060
Matte	296	63	717	175	59	118
Unwrought (a)	11,595	11,774	5,078	7,786	9,929	7,371
Scrap	1,415	735	1,143	319	78	230
Semi-manufactures (a)	4,945	5,011	3,481	3,328	4,327	3,446
Sulphate	2,939	4,998	5,962	6,906	8,842	5,305
Spain—						
Ore	3,761	1,123	2,020	21,459	49,614	22,547
Unwrought (a)	16,230	16,804	17,937	8,404	12,436	26,538
Scrap (a)	2,362	4,225	4,590	4,349	10,219	15,470
Semi-manufactures (a)	1,123	356	507	420	465	3,831
Sulphate	244	2,330	1,519	104	90	30
Sweden—						
Ore	28,419	29,849	31,718	25,763	18,401	21,293
Matte	<i>n.a.</i>	<i>n.a.</i>	9,344	7,641	8,163	9,255
Unwrought—						
Unrefined	47,694	52,794	390	3,156	5,267	1,876
Refined			53,855	71,123	65,964	69,143
Alloys	4,409	3,500	3,113	4,052	4,459	3,005
Scrap (a)	1,598	892	1,030	4,548	1,479	1,498
Semi-manufactures (a)	4,040	5,404	7,131	10,151	9,953	9,346
Sulphate	783	507	913	696	441	211
Switzerland—						
Unwrought	38,455	36,036	30,104	36,888	51,943	39,635
do. alloys				524	1,364	2,117
Scrap (a)	1,151	557	724	1,371	493	425
Semi-manufactures (a)	9,110	8,407	10,025	12,614	21,060	21,123
U.S.S.R.—						
Unwrought	58,400	92,300	113,900	104,300	80,900	104,700
Yugoslavia—						
Unwrought	6,162	6,278	2,193	9,562	10,284	6,999
Semi-manufactures (a)	678	261	199	479	620	549
Algeria—						
Unwrought	4,381	3,370	4,272	4,572	<i>n.a.</i>	<i>n.a.</i>
Semi-manufactures (a)	840	1,439	1,564	1,552	<i>n.a.</i>	<i>n.a.</i>
Sulphate	6,585	5,465	3,787	2,744	<i>n.a.</i>	<i>n.a.</i>
Angola—						
Semi-manufactures (a)	129	111	153	101	265	393
Sulphate	14	43	62	17	7	3
Congo Republic—						
Bars, sheets, wire, etc. . .	343	188	93	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Egypt—						
Unwrought and scrap ..	384	2,386	2,426	2,695	5,056	<i>n.a.</i>
Semi-manufactures (a)	354	1,168	994	1,050	982	<i>n.a.</i>
Sulphate	595	1,701	73	1,327	95	<i>n.a.</i>
Malagasy Republic—						
Semi-manufactures (a)	120	90	125	128	148	170
Morocco—						
Semi-manufactures (a)	1,340	1,631	1,028	2,201	1,863	2,122
Sulphate	147	73	83	29	35	—
Mozambique—						
Semi-manufactures (a)	336	391	341	437	481	<i>n.a.</i>
South Africa—						
Unwrought	18,616	23,407	14,093	22,423	22,948	<i>n.a.</i>
do. alloys	57	74	91	106	70	<i>n.a.</i>
Semi-manufactures (a)	4,695	3,437	3,108	1,359	1,210	<i>n.a.</i>
Sudan—						
Sulphate	101	436	642	600	447	255
Tunisia—						
Semi-manufactures (a)	336	301	381	359	507	337
Sulphate	723	666	699	684	620	91

(a) Including alloys.

IMPORTS OF COPPER, ETC. (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Costa Rica—						
Semi-manufactures (a)	47	78	109	103	131	212
Sulphate	8,454	1,392	1,393	6,430	9,811	157
Cuba—						
Semi-manufactures (a)	2,421	2,343	3,816	n.a.	n.a.	n.a.
Dominican Republic—						
Sulphate	342	n.a.	278	n.a.	n.a.	n.a.
Guatemala—						
Semi-manufactures (a)	828	562	136	137	81	106
Sulphate	(b) 5,456	(b) 2,843	5	1,137	408	19
Honduras—						
Sulphate	4,522	1,019	17	3,755	296	45
Mexico—						
Unwrought (a) ..	88	78	37	81	15	28
Semi-manufactures (a)	537	343	302	232	276	214
Sulphate	25	1	1	1	2	5
Panama Republic—						
Sulphate	5,500	1,198	1,382	2,443	2,504	n.a.
United States (c)—						
Cu content of—						
Ore and concentrates	74,386	81,069	8,356	21,819	21,875	2,074
Matte, precipitate, etc.	4,787	4,398	6,351	165	85	19
Unwrought—						
Blister	268,871	123,779	182	434	5,294	999
Refined	144,919	111,276	211,879	152,698	77,863	116,540
Scrap	5,217	5,223	2,664	1,639	1,467	3,434
do. alloys	4,146	3,751	1,122	276	348	1,151
Semi-manufactures ..	25,707	37,647	48,382	41,490	19,160	17,251
do. alloys	17,424	21,773	28,267	24,549	21,061	23,389
Sulphate	109	181	515	983	285	74
Argentina—						
Unwrought	21,682	33,450	19,631	21,338	29,316	17,177
Brazil—						
Ore	1,132	—	—	168	—	—
Unwrought (a) ..	28,358	25,808	19,902	28,774	35,598	41,447
Semi-manufactures (a)	869	1,201	291	608	307	374
Sulphate	3,500	4,456	2,553	4,328	3,142	4,653
Colombia—						
Semi-manufactures (a)	2,511	1,779	2,546	3,022	4,378	4,148
Sulphate	7,963	2,366	11	683	104	3
Peru—						
Semi-manufactures (a)	677	627	610	665	894	1,136
Sulphate	621	258	125	265	312	188
Uruguay—						
Semi-manufactures (a)	867	183	514	501	n.a.	n.a.
Venezuela—						
Semi-manufactures (a)	n.a.	n.a.	7,300	7,136	5,892	5,094
Sulphate	94	92	122	102	106	303
Burma—						
Semi-manufactures (a)	201	444	618	423	306	n.a.

(a) Including alloys.

(b) Including carbonate.

(c) 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):

	1957	1958	1959	1960	1961	1962
Ore and concentrates	105,887	78,051	64,858	67,427	40,882	38,319
Matte	5,532	4,623	7,990	4,508	1,434	566
Unwrought—						
Blister	268,871	239,448	240,221	266,404	302,847	296,148
Refined	144,919	114,700	191,123	127,419	59,692	88,232
Scrap	5,177	6,304	5,531	2,406	3,778	4,279

IMPORTS OF COPPER, ETC. (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Formosa—						
Unwrought (a) ..	96	133	311	1,727	1,243	2,405
Semi-manufactures (a)	556	929	975	1,685	1,829	1,102
Indonesia—						
Semi-manufactures (a)	2,490	1,839	818	1,721	2,996	n.a.
Sulphate	1,511	237	253	312	1,332	n.a.
Iran (b)—						
Unwrought (a) ..	550	1,229	902	276	n.a.	n.a.
Scrap	519	435	824	870	n.a.	n.a.
Semi-manufactures (a)	2,317	3,357	3,250	2,515	n.a.	n.a.
Iraq—						
Semi-manufactures (a)	943	1,210	1,066	1,083	n.a.	n.a.
Japan—						
Ore and concentrates ..	217,431	208,576	330,574	62,305	427,423	514,230
Matte	3,259	14	6	1,571	5,392	35,435
Unwrought	49,614	9,721	14,183	58,420	102,634	36,158
do. alloys	321	295	121	167	65	206
Scrap	55,749	2,669	1,444	7,755	10,336	7,812
do. alloys	43,066	30,983	61,294	108,400	134,198	74,953
Semi-manufactures (a)	18,674	1,529	2,342	2,471	983	1,428
Sulphate	10	2	—	—	304	1,142
Lebanon—						
Semi-manufactures (a)	406	436	594	425	750	n.a.
Philippine Republic—						
Semi-manufactures (a)	n.a.	3,509	3,307	3,771	3,976	4,622
Sulphate	272	173	80	139	n.a.	n.a.
Thailand—						
Unwrought (a) ..	231	87	58	210	7	215
Semi-manufactures (a)	1,385	1,135	1,062	1,193	1,198	1,790
Turkey—						
Semi-manufactures (a)	497	573	609	483	423	104
Sulphate	2,071	342	2,097	330	857	1,540

(a) Including alloys.

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

DIAMONDS
PRODUCTION OF DIAMONDS†

Metric carats

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Basutoland	2,500	6,664	8,713	95	<i>n.a.</i>	<i>n.a.</i>
Ghana (b)	3,124,825	3,131,695	3,076,072	r 3,273,000	3,214,000	3,210,060
Sierra Leone	(a) 863,202	(a) 1,490,037	1,290,964	1,909,180	2,295,279	c 1,850,000
Tanganyika	390,971	521,064	643,277	548,376	691,668	660,029
British Guiana	29,037	33,091	62,328	101,004	112,679	100,145
India	790	1,540	682	1,159	1,313	1,131
Australia	312	158	37	6	—	—
TOTAL	4,411,637	5,184,249	5,082,073	r 5,833,000	6,315,000	5,820,000
OTHER COUNTRIES						
Angola—						
Gem	524,933	593,833	610,733	642,551	750,769	762,395
Industrial	339,439	407,403	404,955	414,276	396,669	318,709
Congo Republic—						
Gem	630,923	669,329	658,909	r 407,000	132,000	—
Industrial	15,015,807	16,004,145	14,196,261	13,046,563	18,011,000	14,656,000
Central African Republic	108,112	85,697	86,571	69,641	111,484	265,000
Gabon	1,119	—	—	—	—	—
Ivory Coast	155,000	164,315	187,950	199,120	549,330	283,911
Guinea	92,000	116,000	(a) 657,000	a 1,116,000	<i>n.a.</i>	<i>n.a.</i>
South Africa	2,578,975	2,702,250	2,838,332	3,141,463	3,787,862	3,917,891
South West Africa	996,965	903,576	930,659	935,382	905,815	1,027,233
Venezuela	122,597	90,004	94,986	70,867	134,176	176,493
TOTAL*	20,900,000	22,000,000	20,900,000	r20,300,000	26,000,000	23,000,000
WORLD'S TOTAL* ..	25,300,000	27,200,000	26,000,000	r26,100,000	32,000,000	29,000,000

†For values see next page.

*Including an estimate for diamonds produced in Brazil. Diamonds are also known to have been produced in the U.S.S.R., Liberia and Indonesia but no statistics are available.

Note—Estimated production of synthetic diamond in the United States was as follows (metric carats): 1958—1,300,000; 1959—1,500,000; 1960—2,000,000; 1961—2,500,000; 1962—3,000,000.

(a) Exports.

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

		<i>Companies</i>	<i>African diggers</i>
1957 ..	1,455,249	1,669,576	
1958 ..	1,279,043	1,852,652	
1959 ..	1,335,614	1,740,458	
1960 ..	r 1,853,000	1,419,843	
1961 ..	1,966,000	1,247,667	
1962 ..	2,266,185	943,875	

(c) Estimated.

PRODUCTION OF DIAMONDS†

£ sterling

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Basutoland (c)	17,000	65,000	63,000	1,000	<i>n.a.</i>	<i>n.a.</i>
Ghana (b)	9,428,000	8,273,000	8,446,000	r 9,782,000	8,050,000	8,002,000
Sierra Leone	(a)6,425,170	(a)7,183,787	(b)7,292,000	b15,306,000	b17,922,000	c13,180,000
Tanganyika (b)	3,401,000	4,464,000	5,275,000	4,773,000	5,836,000	5,508,000
British Guiana	279,663	291,270	644,445	1,083,899	967,170	(c) 900,000
India	12,600	32,000	17,000	39,700	64,000	27,700
Australia	3,224	1,572	118	20	—	—
TOTAL	r 19,567,000	r20,311,000	r20,738,000	r30,986,000	32,840,000	27,620,000
OTHER COUNTRIES						
Angola	6,161,000	7,134,000	7,382,000	6,624,000	b 7,420,000	(b)7,602,000
Congo Republic—						
Gem (b)	1,625,000	1,791,000	1,751,000	r 806,000	<i>n.a.</i>	—
Industrial (b)	11,011,000	12,766,000	11,249,000	9,282,000	<i>n.a.</i>	<i>n.a.</i>
Central African Republic		(b)487,000	(b) 458,000	(b) 509,000	612,000	(b)1,571,000
Gabon	711,000	—	—	—	—	—
Ivory Coast	(b) 554,000	(b) 718,000	(b) 442,000	(b) 500,000	(b)1,207,000	(b) 551,000
Guinea (b)	(b) 329,000	366,000	(a)1,858,000	(a)3,600,000	<i>n.a.</i>	<i>n.a.</i>
South Africa (c)	r13,483,000	r15,473,000	r14,974,000	r16,903,000	18,968,000	17,947,000
South West Africa (c)	17,983,000	16,525,000	16,342,000	15,573,000	17,435,000	18,635,000
Venezuela (b)	1,207,000	570,000	715,000	558,000	1,200,000	1,965,000
TOTAL*	r56,000,000	59,000,000	58,000,000	r57,000,000	66,000,000	65,000,000
WORLD'S TOTAL*	r76,000,000	79,000,000	80,000,000	r88,000,000	99,000,000	93,000,000

†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)		Total
	Gem	Industrial		Gem	Industrial	
1957	52,818,096	23,954,016		76,772,112		
1958	49,420,695	16,122,691		65,543,386		
1959	63,033,187	28,102,756		91,135,943		
1960	63,450,929	26,249,454		89,700,383		
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		

EXPORTS OF DIAMONDS

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Ghana Ct.	2,930,901	3,280,970	3,116,571	3,291,976	2,854,134	3,327,506
	£ 8,979,359	£ 8,661,512	£ 8,659,162	£ 9,838,547	£ 7,148,511	£ 7,424,285
Sierra Leone .. Ct.	863,202	1,490,037	1,205,302	2,054,735	2,045,150	1,157,520
	£ 6,425,170	£ 7,183,787	£ 6,808,568	c 16,473,273	c 15,969,057	c 7,108,862
Tanganyika—						
Gem diamonds.. Ct.	170,674	231,312	250,176	258,370	339,982	} 647,177
	£ 2,518,917	£ 3,436,889	£ 3,506,623	£ 3,644,877	£ 4,803,374	
Industrial diamonds Ct.	201,928	284,141	304,494	278,203	344,873	} 5,401,543
	£ 723,787	£ 978,166	£ 1,041,114	£ 977,065	£ 976,704	
British Guiana .. Ct.	28,521	31,935	62,644	94,782	124,622	n.a.
	£ 287,095	£ 290,367	£ 630,575	£ 990,772	£ 1,069,634	n.a.
Hong Kong—						
Cut and polished Ct.	n.a.	n.a.	34,531	56,578	53,838	65,056
	£ 776,916	£ 1,205,231	£ 1,760,903	£ 2,613,485	£ 3,128,138	£ 4,053,603
Industrial	—	1,940	5,889	—	57	3,500
India—						
Gem diamonds	£ 5,826	£ 3,816	£ 4,909	(d) 263	(d) 6,028	(d) 519
Malaya—						
Cut and polished	£ 52,317	£ 43,305	£ 52,035	£ 51,190	£ 81,330	£ 93,633
Australia (a)—						
Gem diamonds Ct.	—	165	—	480	422	4
	£ —	£ 1,312	£ —	£ 3,286	£ 1,122	£ 146
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Cut and polished Ct.	793,876	761,785	949,921	1,082,159	1,087,704	1,183,562
	£ 30,258,537	£ 28,863,065	£ 35,893,793	£ 41,343,531	£ 44,540,637	£ 48,942,384
Industrial, rough and bort Ct.	3,330,772	3,087,066	4,930,275	4,577,608	6,640,444	6,764,984
	£ 13,809,646	£ 12,318,793	£ 19,563,436	£ 17,244,881	£ 22,746,722	£ 20,487,001
France—						
Uncut	£ 83,000	£ 243,465	£ 287,468	£ 350,755	£ 433,261	£ 548,619
Cut	£ 1,147,000	£ 1,198,417	£ 1,185,461	£ 1,455,000	£ 1,388,633	£ 1,003,052
Industrial diamonds	£ 34,000	£ 44,385	£ 46,447	£ 59,508	£ 16,201	£ 41,497
Dust	£ 500	£ 85	£ 8,500	£ 18,707	£ 16,086	£ 44,767
Netherlands .. Ct.	1,110,518	981,934	1,529,897	1,541,182	1,874,833	958,519
	£ 10,153,000	£ 9,213,000	£ 13,771,000	£ 16,012,000	£ 16,293,000	£ 7,954,000
Dust Ct.	n.a.	n.a.	n.a.	516,418	721,431	655,214
	£ n.a.	£ n.a.	£ n.a.	£ 528,000	£ 729,000	£ 665,000
Sweden—						
Industrial diamonds	£ 69,824	£ 96,961	£ 73,090	£ 67,409	£ 54,400	£ 57,500
Angola Ct.	869,105	962,336	1,025,796	933,646	1,276,573	985,776
	£ 5,334,132	£ 6,884,943	£ 7,436,467	£ 6,182,777	£ 8,254,996	£ 6,931,325
Congo Republic—						
Gem diamonds .. Ct.	626,442	713,805	660,594	451,679	n.a.	n.a.
	£ 1,324,483	£ 1,483,744	£ 1,427,626	£ 894,000	n.a.	n.a.
Industrial diamonds Ct.	14,566,863	14,343,402	15,292,924	9,904,766	n.a.	n.a.
	£ 9,633,213	£ 10,571,279	£ 10,862,308	£ 7,047,000	n.a.	n.a.
Central African Republic—						
Cut	£ 110,550	£ 104,868	£ 89,758	£ 83,642	£ 98,361	£ 175,267
	£ 803,000	£ 596,000	£ 475,000	£ 611,000	£ 543,738	£ 1,039,244
Guinea Ct.	(b)	120,000	657,000	1,116,000	n.a.	n.a.
	£ —	£ 379,000	£ 1,858,000	£ 3,600,000	£ 2,800,000	£ n.a.
Ivory Coast—						
Cut	£ 307,900	£ 165,910	£ 230,930	£ 197,805	£ 531,390	£ 415,910
	£ 1,100,000	£ 725,000	£ 543,000	£ 497,000	£ 1,168,000	£ 807,000
Liberia Ct.	757,138	868,575	638,440	976,437	1,095,632	905,000
	£ 446,000	£ 805,500	£ 754,500	£ 818,000	£ 794,000	£ n.a.

(a) Years ended June 30 of that stated.

(b) Included with Ivory Coast.

(c) Method of valuation revised and figure not, therefore, strictly comparable with those for previous years.

(d) Years ended March 31 following that stated.

EXPORTS OF DIAMONDS (cont.)

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
South Africa (a)—						
Uncut Ct.	1,435,478	1,336,403	1,677,633	1,596,982	1,818,244	1,743,794
£	24,685,787	20,572,157	26,272,792	23,858,284	29,623,940	25,198,054
Cut and polished Ct.	118,569	117,420	136,243	129,545	138,718	132,968
£	10,136,932	10,110,481	11,745,220	11,115,174	12,280,549	11,395,195
United States—						
Uncut Ct.	10,230	14,016	23,058	21,967	31,315	22,543
£	151,906	170,013	216,015	295,273	547,587	563,552
Cut Ct.	6,640	6,841	18,497	12,228	33,337	30,005
£	1,149,343	780,114	1,227,409	1,883,566	4,003,891	4,940,386
Industrial diamonds Ct.	54,413	96,014	178,595	306,331	475,211	715,042
£	194,908	191,012	300,302	461,600	650,851	807,423
Dust Ct.	199,252	123,194	172,787	321,373	490,327	828,611
£	223,111	134,636	156,562	300,584	484,491	791,906
Brazil	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Venezuela .. Ct.	91,377	72,889	82,936	58,287	57,277	82,189
£	776,000	462,000	624,000	459,000	521,000	915,000
Israel—						
Polished.. .. Ct.	345,401	342,136	477,617	627,163	738,975	975,576
£	12,610,727	12,234,113	16,701,758	21,735,184	25,106,727	31,804,487
Industrial .. Ct.	9,059	3,866	74,112	66,984	75,434	96,284
£	42,446	30,493	181,723	214,907	247,997	279,167
Dust Ct.	14,824	15,537	17,701	2,020	6,963	5,291
£	13,884	2,859	6,942	472	7,566	4,879

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

		1957	1958	1959	1960	1961	1962
Ct.	.. ..	—	—	—	—	n.a.	998,519
£	.. ..	—	—	—	—	n.a.	550,494

IMPORTS OF DIAMONDS

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom Ct.	21,205,460	21,830,104	22,245,187	17,654,895	<i>n.a.</i>	<i>n.a.</i>
(b) £	57,817,489	57,284,672	62,473,773	64,976,439	<i>n.a.</i>	<i>n.a.</i>
Malta—						
Cut and polished £	2,039	2,038	1,219	487	236	1,515
Zanzibar Ct.	—	—	—	6	49	—
£	—	—	—	220	5,523	59
Canada—						
Unset Ct.	27,341	53,948	57,009	55,803	52,992	55,865
£	1,693,007	2,889,611	3,879,443	2,839,772	2,775,652	2,690,080
Dust, bort, etc... Ct.	671,293	99,346	490,724	125,083	324,388	997,396
£	1,377,340	152,019	926,074	176,906	566,808	1,764,130
Bermuda £	251,266	(a) 186,949	(a) 11,818	41,887	(a) 148,071	(c) 121,601
Ceylon—						
Cut and polished Ct.	—	—	460	26,582	363	—
£	—	—	1,362	165,644	21,302	—
Hong Kong—						
Gem diamonds .. Ct.	<i>n.a.</i>	<i>n.a.</i>	234,349	286,113	321,087	371,846
£	5,851,238	6,111,582	9,028,340	11,570,752	14,254,352	16,919,835
Industrial diamonds £	—	660	8,445	2,088	7,300	1,057
India £	115,081	66,792	65,570	(c) 118,573	(c) 159,845	(c) 121,601
Malaya—						
Gem diamonds £	374,886	326,476	376,134	372,127	265,043	219,599
Australia (d)—						
Industrial diamonds Ct.	122,629	177,893	185,720	313,175	283,895	217,759
£	221,678	313,852	382,810	431,983	365,770	326,921
Other diamonds Ct.	15,171	16,195	14,224	17,708	17,506	10,760
£	714,973	732,240	674,198	893,442	779,469	784,045
New Zealand—						
Industrial diamonds £(N.Z.)	299	985	2,788	9,837	5,370	11,458
Other diamonds £(N.Z.)	180,818	r 147,530	151,106	220,899	205,771	179,432
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Rough diamonds Ct.	4,439,726	3,412,135	4,491,677	4,334,642	3,615,331	3,880,889
£	32,217,559	25,839,832	36,849,213	36,941,788	35,678,869	36,237,817
Cut diamonds .. Ct.	140,826	90,759	161,523	301,490	256,641	245,103
£	7,565,402	5,711,800	9,142,770	15,099,970	14,143,737	14,689,707
Industrial, rough and bort Ct.	2,305,611	3,057,280	5,699,477	6,273,589	8,597,046	8,038,843
£	4,551,764	6,542,242	12,886,902	12,726,377	17,740,487	13,824,796
France—						
Uncut £	2,521,000	2,578,858	2,399,472	2,755,656	2,131,579	2,604,433
Cut and polished £	2,058,000	1,882,849	2,130,968	2,493,600	2,688,875	3,121,584
Industrial diamonds £	7,000	5,661	6,186	7,917	13,573	6,977
Dust £	323,700	503,155	428,092	725,792	624,421	744,041
Netherlands .. Ct.	1,271,149	1,169,044	1,841,155	63,179	<i>n.a.</i>	1,304,671
£	9,690,000	9,517,000	12,356,000	1,004,000	<i>n.a.</i>	7,934,000
Dust Ct.	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	45,393	—	506,539
£	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	48,000	—	476,000

(a) Excess of re-exports.

(b) Declared imports represent a very small proportion of actual imports. These figures, therefore, represent exports of rough diamonds from Ghana, Sierra Leone, Tanganyika, British Guiana, Angola, Congo Republic, South Africa, and South West Africa to the United Kingdom as recorded by those countries. In the case of South Africa, figures represent diamonds of known South African origin only and exclude re-exports of imported diamonds. No figures are available as to the quantities re-exported from the United Kingdom.

(c) Years ended March 31 following that stated.

(d) Years ended June 30 of that stated.

IMPORTS OF DIAMONDS (cont.)

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Norway Ct.	<i>n.a.</i>	<i>n.a.</i>	700	<i>n.a.</i>	2,000	12,765
£	2,943	2,536	3,872	2,446	750	2,216
Sweden—						
Industrial diamonds £	476,400	345,873	314,384	486,079	319,600	293,900
South Africa—						
Rough diamonds ..	(a)	(a)	(a)	(a)	(a)	(a)
Cut and polished Ct.	169	356	650	803	971	<i>n.a.</i>
£	5,201	11,088	18,664	29,749	30,916	<i>n.a.</i>
Mexico—						
Uncut Ct.	11,805	12,180	16,230	25,475	4,975	5,460
£	37,615	101,796	101,418	76,172	56,856	54,813
Industrial diamonds Ct.	13,420	81,600	152,075	133,785	189,400	114,555
£	15,857	4,495	26,051	97,862	75,593	87,402
United States—						
Uncut Ct.	997,162	1,929,808	1,578,170	1,365,529	2,274,923	1,420,443
£	27,659,498	25,823,132	33,552,700	r31,145,300	40,953,502	36,457,710
Cut and polished Ct.	609,775	718,422	916,824	801,945	839,150	982,278
£	23,447,450	24,223,488	30,735,249	27,771,132	28,073,222	31,739,585
Industrial diamonds Ct.	12,218,301	9,500,632	12,605,782	r12,024,853	13,462,739	7,725,194
£	17,937,087	13,379,252	21,699,108	r17,358,490	23,696,181	13,868,802
Dust Ct.	386,203	568,921	489,436	1,121,241	746,707	4,555,949
£	425,171	540,985	587,592	1,088,732	784,214	4,295,036
Bort, manufactured Ct.	6,057	752	2,504	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
£	98,566	34,559	61,805	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Israel—						
Rough diamonds Ct.	825,668	777,275	1,322,523	1,510,388	1,644,905	2,154,656
£	10,149,779	8,954,492	14,528,233	17,609,079	18,360,248	25,795,620
Industrial diamonds Ct.	13,299	26,111	31,222	23,885	215	<i>n.a.</i>
£	47,293	65,757	54,098	75,615	1,154	<i>n.a.</i>
Bort Ct.	27,844	32,058	17,622	27,487	11,504	<i>n.a.</i>
£	43,635	33,412	17,738	25,399	10,268	<i>n.a.</i>
Dust Ct.	6,470	6,318	7,790	3,383	24,836	<i>n.a.</i>
£	8,182	6,466	7,092	2,036	3,932	<i>n.a.</i>
Japan—						
Industrial diamonds Ct.	262,520	154,410	190,880	358,870	254,010	266,420
£	1,043,000	674,000	780,000	1,081,000	1,013,000	1,031,601

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

	Total imports		Re-exports	
	Carats	£	Carats	£
1957	15,458,540	11,175,954	17,280,930	25,613,157
1958	16,881,479	12,326,528	11,961,930	18,346,577
1959	14,983,836	11,595,714	16,384,742	24,323,797
1960	15,591,198	12,843,624	17,335,315	25,469,252
1961	17,121,816	12,836,498	19,227,908	34,674,533
1962	<i>n.a.</i>	<i>n.a.</i>	16,644,518	28,578,832

DIATOMACEOUS EARTH
PRODUCTION OF DIATOMACEOUS EARTH

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom	22,811	25,138	(b) 17,000	14,780	22,250	20,373
Kenya	4,229	3,475	3,608	3,385	3,158	2,863
Southern Rhodesia (f) ..	—	—	132	146	365	378
Canada (a)	107	24	4	39	191	55
Australia	6,221	4,240	5,089	r 4,659	5,461	7,312
New Zealand	3,158	5,657	7,278	6,243	3,536	1,874
OTHER COUNTRIES						
Austria	3,416	3,648	4,011	3,957	5,351	4,119
Denmark—						
Diatomaceous earth ..	30,231	25,589	32,479	31,495	n.a.	n.a.
Moler (b)	150,000	140,000	120,000	140,000	150,000	160,000
Finland	1,673	2,067	1,357	1,800	700	n.a.
France	77,206	99,954	100,734	125,418	105,740	125,000
Germany (Federal)	68,358	63,516	54,261	47,534	55,692	56,124
Iceland	—	787	(e) 790	n.a.	n.a.	n.a.
Italy	26,524	44,489	50,981	46,329	n.a.	n.a.
Sweden	1,176	1,125	682	r 421	700	n.a.
Yugoslavia (e)	3,900	3,900	4,000	4,000	4,000	4,000
Algeria	9,250	26,000	25,903	21,957	31,000	26,995
Egypt	632	354	394	719	296	(e) 290
Mozambique	—	54	—	94	354	345
South Africa	541	321	354	309	122	578
Costa Rica	(e) 1,600	1,969	2,165	2,165	640	(e) 600
Guatemala	18,400	18,920	—	—	—	—
Nicaragua	—	—	1,685	2,008	2,657	(e) 3,000
United States	(c) 401,589	(c) 401,589	(c) 401,589	(d) 430,537	(d) 430,537	(d) 430,537
Argentina	3,646	4,054	4,312	(e) 4,300	(e) 4,300	(e) 4,300
Colombia	246	196	r 295	r 393	295	150
Peru	34	104	227	r 1,006	1,829	1,450
Korea (South)	1,314	462	1,665	2,400	1,776	677

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

(a) Shipments.

(b) Estimated.

(c) Average annual production 1957—1959.

(d) Average annual production 1960—1962.

(e) United States Bureau of Mines' estimate.

(f) Including tripoli.

EXPORTS OF DIATOMACEOUS EARTH*

Long tons

Exporting Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Kenya	1,235	1,415	942	882	1,185	1,210
OTHER COUNTRIES						
Austria	<i>n.a.</i>	<i>n.a.</i>	159	125	176	101
Belgium-Luxemburg E.U.	184	139	470	899	792	354
Denmark—						
Diatomaceous earth	8,971	6,437	11,070	12,539	12,459	9,837
Moler	109,940	91,314	78,396	86,091	91,602	92,388
Moler bricks	20,860	22,128	21,308	28,111	29,885	32,467
Finland	38	—	—	62	79	125
France	1,675	2,156	2,842	8,184	2,977	14,434
Germany (Federal)	2,442	2,106	2,220	2,942	3,955	3,747
Italy	932	2,599	1,963	3,146	4,472	2,902
Netherlands	27	41	35	253	78	107
Norway	11	—	—	1	3	2
Portugal	66	54	133	112	305	283
Sweden	57	69	62	45	70	26
Yugoslavia	44	1	503	1,280	3,365	8,966
Algeria	16,997	23,376	22,552	23,557	15,000	16,076
Chile	40	28	—	12	<i>n.a.</i>	<i>n.a.</i>
Japan	148	82	77	155	139	221
Korea (South)	<i>n.a.</i>	684	10	—	—	<i>n.a.</i>

*In addition to the exports shown here there is a large export of diatomaceous earth from the United States for which no official figures are available.

IMPORTS OF DIATOMACEOUS EARTH

Long tons

Importing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom (a) ..	69,773	59,562	62,674	58,231	62,633	63,608
Canada	22,579	24,337	24,339	25,884	25,781	23,302
India	289	765	1,266	(d) 695	(d) 1,241	(d) 1,291
Australia (b) ..	4,795	3,204	4,116	3,914	4,543	4,317
New Zealand ..	1,190	1,815	r 1,235	1,391	1,499	1,593
OTHER COUNTRIES						
Austria	n.a.	n.a.	2,110	1,449	1,250	1,398
Belgium-Luxemburg ..						
E.U.	2,874	2,535	3,457	4,098	3,450	4,414
Denmark	543	486	773	959	1,454	1,091
Finland	444	330	328	351	1,162	2,130
France	10,374	13,981	13,555	13,278	12,351	10,500
Germany (Federal) ..	61,008	55,782	48,685	59,292	61,541	74,089
Iceland	954	736	4	503	495	3
Italy	1,065	1,033	1,096	3,089	8,721	2,468
Netherlands	6,111	7,837	7,669	7,624	5,830	7,456
Norway	4,677	3,353	2,882	3,264	5,154	5,834
Portugal	534	521	720	932	1,357	641
Sweden	2,318	2,824	4,197	4,671	5,371	5,081
Switzerland	n.a.	n.a.	n.a.	3,356	2,791	3,077
Yugoslavia	7	3	12	20	104	49
Algeria	107	165	196	147	n.a.	n.a.
Egypt	1,638	1,349	3,266	1,910	1,791	n.a.
Morocco	271	313	685	643	456	457
South Africa	803	788	637	1,054	2,501	n.a.
Costa Rica	2	7	37	39	77	14
Cuba	2,596	2,775	1,364	n.a.	n.a.	n.a.
Guatemala	67	81	89	78	88	115
Honduras	56	97	79	68	81	95
Mexico (c)	2,875	3,202	1,218	1,068	1,165	3,025
Salvador	59	33	47	180	116	235
Brazil	908	816	743	1,029	1,719	1,103
Chile (c)	96	169	165	75	n.a.	n.a.
Colombia	701	773	986	1,193	1,035	1,417
Peru (c)	1,091	827	1,255	819	846	906
Venezuela	(c) 1,350	(c) 1,525	2,079	1,759	2,313	2,731
Japan	3,131	2,778	3,377	5,174	6,147	820
Lebanon	247	198	249	62	41	n.a.
Thailand	4	10	—	191	25	—

(a) Including the following amounts imported in bulk from Denmark:

1957	48,627 long tons
1958	37,930 " "
1959	37,963 " "
1960	35,359 " "
1961	43,110 " "
1962	41,759 " "

(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	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
China stone	58,125	47,826	45,821	47,186	49,432	51,661
Kenya	120	26	—	—	1	—
Southern Rhodesia	—	400	—	—	—	—
Canada	18,259	18,203	16,029	12,377	9,381	8,929
Ceylon	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	32	106	56
Hong Kong	1,156	1,653	1,716	2,511	1,206	937
India	7,872	8,432	9,740	10,395	9,706	15,469
Australia (a)	8,819	7,016	6,750	8,414	8,209	6,881
OTHER COUNTRIES						
Austria	2,612	2,613	3,445	4,573	3,907	4,976
Finland	9,055	13,188	8,191	9,158	15,000	14,822
France	65,000	84,000	79,200	74,000	92,000	<i>n.a.</i>
Germany (Federal) (b)	188,268	187,503	186,019	237,647	258,320	263,423
Italy	63,968	<i>r</i> 55,523	59,989	85,076	93,203	91,126
Norway—						
Unground	51,000	46,000	60,000	65,000	(e) 64,000	(e) 54,000
Ground	18,800	17,914	17,331	20,000	(e) 22,000	(e) 20,000
Portugal	1,161	544	837	1,699	2,892	<i>n.a.</i>
Spain	4,472	5,199	10,722	11,924	8,194	(c) 7,900
Sweden (d)—						
Unground	30,380	22,235	25,984	29,985	30,600	<i>n.a.</i>
Ground	22,588	20,549	20,177	<i>r</i> 24,532	25,400	<i>n.a.</i>
Yugoslavia	9,608	12,466	19,309	13,780	(c) 19,700	(c) 29,500
Egypt	—	—	492	354	—	—
Eritrea	394	413	1,476	984	2,953	425
Mozambique	—	—	89	—	—	—
South Africa	11,381	7,708	10,447	15,600	23,390	28,210
South West Africa	—	—	—	—	88	464
United States (d)	498,057	469,738	548,390	502,380	496,808	492,476
Argentina	4,271	4,221	4,922	(c) 3,900	(c) 3,900	(c) 3,900
Chile	984	984	1,476	1,095	2,280	<i>n.a.</i>
Colombia	5,905	3,937	14,763	15,000	<i>n.a.</i>	15,000
Peru	—	—	—	<i>r</i> 236	992	287
Uruguay	168	267	352	713	877	692
Japan	43,417	44,507	60,196	91,453	50,986	46,991
Philippine Republic	49	74	1,684	3,895	14,526	15,325
TOTAL*	1,120,000	1,080,000	1,200,000	1,300,000	1,300,000	1,300,000

*Excluding feldspar known to have been produced in Czechoslovakia, Roumania, U.S.S.R., 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	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Canada	3,613	8,889	6,743	2,842	2,345	3,302
India	500	235	420	(c) 1,619	(c) 1,492	(c) 710
Australia (b)	92	—	10	—	—	—
OTHER COUNTRIES						
Austria	21	35	(a) 249	(a) 274	(a) 344	(a) 2,245
Finland	5,579	8,485	4,982	7,164	8,208	10,999
France (a)	12,930	12,460	13,321	10,147	10,487	13,451
Germany (Federal) (a) ..	7,703	7,075	8,706	11,557	13,393	11,144
Italy	6,904	8,756	13,614	17,305	16,391	16,737
Netherlands	3,232	4,556	6,045	(a) 7,110	(a) 2,251	(a) 2,290
Norway—						
Crude	31,379	28,234	33,892	42,950	44,688	35,972
Ground	15,724	15,106	15,205	19,229	16,308	14,140
Sweden	36,224	32,739	(a) 35,774	(a) 37,587	(a) 38,449	(a) 30,580
Yugoslavia	2,601	4,908	8,743	8,851	10,593	18,451
South Africa	—	—	756	2,389	4,774	7,682
South-West Africa	—	—	—	—	88	470
Japan	719	932	955	1,291	1,653	1,765

(a) May include some leucite and nephelite.

(c) Years ended March 31 following that stated.

(b) Years ended June 30 of that stated.

IMPORTS OF FELDSPAR

Long tons

Importing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom	31,560	29,323	29,964	37,118	38,023	36,586
Canada	215	1,018	1,037	1,195	1,537	1,697
New Zealand	544	796	1,050	766	443	(a) 1,486
OTHER COUNTRIES						
Austria	1,807	1,959	(b) 2,197	(b) 2,696	(b) 4,390	(b) 4,311
Belgium-Luxemburg						
E.U. (b)	n.a.	n.a.	n.a.	(b) 27,226	31,067	31,701
Denmark	3,237	3,819	(b) 4,006	(b) 5,009	(b) 4,576	(b) 5,483
Finland	35	3	780	(b) 231	(b) 395	(b) 648
France (b)	4,878	3,954	3,506	6,482	7,347	9,865
Germany (Federal) (b) ..	21,034	20,924	24,574	30,277	28,164	32,337
Italy	4,506	3,943	4,879	7,857	8,218	9,525
Netherlands	15,749	20,232	24,673	(b) 25,365	(b) 20,814	(b) 19,618
Poland	n.a.	5,167	3,735	4,203	8,961	n.a.
Sweden	10	7	(b) 111	(b) 151	(b) 240	(b) 873
Algeria (b)	380	694	415	738	n.a.	n.a.
Congo Republic (a)	126	158	193	n.a.	n.a.	n.a.
Morocco (b)	315	316	278	360	251	217
Mexico	4,060	2,783	4,156	3,662	1,911	1,270
United States	4,041	6,657	5,205	7,024	2,553	3,330
Colombia (a)	249	140	147	424	243	297
Venezuela	1,596	2,078	3,378	3,102	4,798	6,492
Israel	1,860	847	1,438	1,042	2,044	1,909
Japan	—	3	—	1,390	1,108	2,543
Vietnam (South)	n.a.	n.a.	20	156	126	88

(a) Including fluorspar.

(b) May include some leucite and nephelite.

FLUORSPAR
PRODUCTION OF FLUORSPAR

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom (a) ..	93,274	77,505	83,105	97,543	85,396	71,744
Southern Rhodesia ..	87	4	9	17	—	18
Canada	59,147	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Australia	700	930	471	7	<i>n.a.</i>	374
OTHER COUNTRIES						
France	107,398	95,628	98,594	133,344	191,907	197,000
Germany—						
Federal Republic ..	136,984	116,041	112,750	119,110	107,000	96,000
East (b)	61,000	64,000	64,000	71,000	71,000	71,000
Italy	142,326	145,461	155,439	159,783	154,091	153,102
Spain	86,999	89,056	87,784	109,266	144,602	141,667
Sweden (c)	2,648	2,846	2,674	2,868	3,179	(b) 2,900
U.S.S.R. (b)	145,000	160,000	170,000	190,000	210,000	210,000
Morocco	—	—	—	—	776	487
South Africa	31,345	43,081	62,783	101,384	85,591	99,717
South West Africa ..	21	4	126	—	—	214
Mexico	(e) 348,042	(e) 277,201	(e) 304,631	361,150	392,220	494,323
United States (d) ..	293,636	285,279	165,260	205,162	176,209	183,952
Argentina	7,629	12,731	16,062	(b) 15,700	(b) 15,700	(b) 15,700
Burma	—	320	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
China (b)	145,000	145,000	200,000	245,000	245,000	200,000
Japan	7,627	5,419	5,075	9,025	14,577	15,286
Korea (South)	5,039	1,594	6,025	18,602	27,491	32,449
Thailand	—	—	—	3,405	4,680	10,541
Turkey	—	79	66	321	37	572
TOTAL	1,700,000	1,600,000	1,600,000	1,900,000	2,000,000	2,100,000

Fluorspar is also known to have been produced in Belgium, Bulgaria 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) Exports.

EXPORTS OF FLUORSPAR

Long tons

Exporting Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Canada	21,098	6	3,370	9,207	1,829	4
OTHER COUNTRIES						
France	1,846	4,801	13,136	18,104	37,705	43,471
Germany (Federal)	37,364	14,412	15,658	17,650	20,959	14,109
Italy	77,723	81,521	119,197	71,604	66,010	48,341
Norway	—	—	32	—	—	—
Spain	66,321	64,071	62,157	100,060	99,900	86,611
Sweden	26	241	311	280	343	474
Morocco	—	30	127	59	229	n.a.
South Africa	r 20,305	r 30,308	r 43,916	r 99,543	76,469	69,810
South-West Africa	—	34	—	—	—	91
Mexico	348,042	277,201	304,631	344,446	407,903	460,908
United States	674	3,012	1,022	409	301	1,168
Argentina	838	781	854	271	826	569
Bolivia	—	—	—	—	—	n.a.
Korea (South)	10,208	11,607	18,065	28,115	32,856	23,238

IMPORTS OF FLUORSPAR

Long tons

Importing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Canada	12,988	27,149	21,239	53,279	29,177	60,578
India	7,986	5,330	12,298	(c) 3,760	(c) 8,001	(c) 7,157
Australia (a)	530	401	1,347	3,701	2,137	2,692
OTHER COUNTRIES						
Austria	9,125	9,420	11,070	14,763	12,444	8,010
Belgium-Luxemburg E.U.	n.a.	n.a.	n.a.	8,157	6,819	6,339
Denmark	1,013	934	637	917	642	569
Finland	n.a.	n.a.	n.a.	n.a.	5,867	4,802
France	4,652	5,590	707	2,659	502	224
Germany (Federal)	10,897	1,422	3,733	14,606	69,245	64,581
Italy	54	886	59	210	7,370	7,998
Netherlands	7,484	6,300	5,734	9,755	7,148	10,937
Norway	1,061	978	1,828	1,837	2,724	1,512
Poland	n.a.	21,400	21,100	2,1800	26,100	n.a.
Portugal	67	159	198	n.a.	n.a.	n.a.
Sweden	8,675	8,412	8,370	12,270	13,196	14,097
U.S.S.R.	114,300	127,600	108,100	74,100	74,800	78,900
Yugoslavia	818	1,810	1,230	2,373	3,057	3,418
Algeria	65	104	156	96	n.a.	n.a.
Congo Republic (b)	126	158	193	n.a.	n.a.	n.a.
Mexico	53	—	4	2	—	—
United States	563,721	350,146	496,206	476,804	451,571	532,044
Brazil	960	281	831	310	639	543
Colombia (b)	249	140	147	424	243	297
Venezuela	214	540	149	103	166	542
Japan	57,458	36,156	70,625	99,019	123,857	100,629

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

(b) Including felspar.

FULLER'S EARTH

(see also Bentonite)

PRODUCTION OF FULLER'S EARTH

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
India	(b) 8,500	(b) 13,500	(b) 14,000	<i>n.a.</i>	(b) 7,000	(b) 16,000
Australia	215	120	136	90	151	392
OTHER COUNTRIES						
Morocco	8,080	15,642	22,031	37,077	37,993	32,124
South Africa	1,376	1,759	312	(c) 511	707	(c) 657
United States (a)	326,876	319,538	365,734	364,576	376,947	366,062
Iran (d)	<i>n.a.</i>	1,585	1,506	1,800	<i>n.a.</i>	<i>n.a.</i>

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

(a) Sold or used by producers.

(c) Sales.

(b) Estimated.

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

EXPORTS OF FULLER'S EARTH*

Long tons

Exporting Country	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
Morocco	7,713	6,789	6,589	25,412	27,148	25,897
United States (a)	<i>n.a.</i>	6,626	8,871	10,746	280	240

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

(a) As recorded by producers.

IMPORTS OF FULLER'S EARTH

Long tons

Importing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Canada	(£55,854)	(£58,625)	(£59,009)	(£69,069)	(£55,302)	(£57,827)
Ceylon	135	51	136	94	123	147
India	516	298	628	(b) 331	(b) 403	(b) 120
Australia (a)	152	200	177	318	—	—
New Zealand	196	226	127	274	260	<i>n.a.</i>
OTHER COUNTRIES						
South Africa	951	928	1,063	1,244	745	<i>n.a.</i>
Chile	507	153	796	252	<i>n.a.</i>	<i>n.a.</i>
Peru	568	610	450	963	1,782	1,964
Venezuela	169	263	380	279	596	501
Burma	563	505	959	855	928	978

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

GOLD
PRODUCTION OF GOLD
(Metal content)

Fine troy ounces

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Bechuanaland Protectorate	190	215	198	203	261	288
Ghana	790,381	852,838	913,141	878,958	834,006	888,037
Kenya	7,388	7,753	9,145	8,646	12,299	9,327
Nigeria	389	644	848	779	543	329
Northern Rhodesia	3,270	3,729	4,685	r 6,300	4,279	3,625
Southern Rhodesia	536,849	554,838	566,883	562,702	570,095	544,647
Sierra Leone	—	—	—	—	19	n.a.
Swaziland	7	—	—	806	1,325	2,214
Tanganyika	(a) 63,485	(a) 67,777	(a) 96,802	(a) 106,711	(a) 100,425	104,383
Uganda (b)	182	278	334	650	383	236
Canada	4,433,894	4,571,347	4,483,416	4,628,911	4,473,699	4,155,210
British Guiana	15,286	16,503	3,164	2,170	1,562	1,747
India	179,182	170,090	165,400	160,600	156,500	163,300
Malaya (c)	10,600	21,400	25,400	19,700	11,900	6,600
Sarawak	883	864	2,450	3,326	4,132	2,885
Australia	1,083,941	1,103,980	1,085,104	1,086,709	1,076,292	1,072,437
Fiji	73,629	r 86,720	72,565	r 72,203	83,417	86,547
New Guinea and Papua	69,029	43,812	46,820	45,150	41,820	39,052
New Zealand	30,195	24,981	36,758	33,326	28,294	21,742
TOTAL	7,299,000	7,528,000	7,513,000	r 7,618,000	7,401,000	7,103,000
OTHER COUNTRIES						
Finland	21,895	22,152	23,374	20,351	20,609	15,249
France	35,170	35,560	42,150	46,040	48,680	51,000
Germany (Federal)	3,681	2,485	1,929	1,283	(d) 2,000	(d) 2,000
Greece	7,877	6,940	4,730	2,900	—	—
Italy	6,346	4,802	3,261	3,310	600	—
Portugal	23,277	17,742	20,800	21,900	22,400	21,900
Spain	11,900	14,200	15,200	14,000	8,200	7,600
Sweden	97,095	127,600	103,000	r 94,070	83,300	128,700
Yugoslavia	51,988	55,364	59,640	63,980	(d) 67,195	(d) 80,000
Angola	—	26	42	42	48	77
Cameroun	10,899	2,009	1,045	416	537	580
Central African Republic	560	850	495	300	80	100
Congo (Republic of)	6,830	5,530	4,630	3,670	3,389	3,790
Congo Republic	371,020	352,280	347,970	r 314,100	233,700	203,700
Egypt	3,026	1,812	2,486	1,000	(d) 1,000	(d) 1,000
Eritrea	4,501	6,430	16,718	5,144	5,529	2,315
Ethiopia	(c) 25,000	36,369	41,439	60,220	30,350	43,000
Gabon	20,800	15,200	16,200	17,700	15,300	16,200
Liberia	(e) 381	(d) 400	1,401	1,036	2,088	2,184
Malagasy Republic	758	720	200	300	350	325
Morocco	—	—	—	104	136	—
Mozambique	1,080	695	295	225	105	91
Rwanda and Burundi	3,220	3,860	3,100	1,566	817	30
South Africa	17,030,737	17,656,447	20,065,515	21,383,019	22,941,561	25,491,993
South-West Africa	—	—	—	—	—	183
Sudan	1,158	1,571	1,419	2,116	1,266	932

(a) Including gold in lead concentrates exported amounting to 9,192 ounces in 1957, 11,951 ounces in 1958, 10,391 ounces in 1959, 8,963 ounces in 1960 and 521 ounces in 1961.

(b) Exports.

(e) Purchases.

(c) Estimated

(d) United States Bureau of Mines' estimate.

PRODUCTION OF GOLD (cont.)

Fine troy ounces

Producing Country	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Upper Volta	331	3,100	3,400	930	(b) 16,000	<i>n.a.</i>
Costa Rica (b)	300	300	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Cuba (e)	915	804	615	348	—	—
Dominican Republic	286	780	513	(e) 308	—	—
Guatemala (c)	360	370	—	—	—	(e) 8
Honduras	2,025	1,714	(e) 2,798	(e) 2,172	(e) 1,685	(e) 2,132
Mexico	346,328	332,250	313,662	312,400	268,678	236,800
Nicaragua	203,636	214,882	217,849	210,200	226,250	221,984
Salvador	2,508	2,372	2,393	1,100	—	—
United States	1,793,597	1,739,249	1,602,931	1,666,772	1,548,270	1,542,511
Argentina	7,729	1,830	(e) 1,782	(e) 201	<i>n.a.</i>	—
Bolivia (d)	46,940	19,115	35,246	45,457	81,216	34,409
Brazil (a)	120,755	116,190	112,332	118,891	118,955	119,875
Chile	103,590	111,000	78,640	r 57,320	52,500	65,000
Colombia	325,114	371,715	397,929	433,947	401,060	396,827
Ecuador	16,247	19,445	18,568	15,209	15,210	20,591
French Guiana	8,940	18,000	15,000	18,900	7,900	5,300
Peru	161,831	159,127	150,299	141,001	137,418	122,985
Surinam	6,516	4,258	5,826	4,932	4,010	2,592
Venezuela	89,873	75,976	53,740	46,868	30,071	28,774
Burma	(d) 166	190	(d) 212	(d) 304	194	(c) 170
Cambodia	1,608	322	4,823	4,180	4,000	965
Formosa	20,500	21,200	13,500	15,700	17,500	24,000
Japan	252,563	260,630	261,547	261,496	294,534	285,000
Korea (South)	66,578	72,071	65,680	65,810	83,560	107,900
Philippine Republic	379,982	422,833	402,615	410,618	423,983	423,394
TOTAL*	21,700,000	22,400,000	24,500,000	25,900,000	27,200,000	29,700,000
WORLD'S TOTAL* (excl. U.S.S.R.)	29,000,000	29,900,000	32,000,000	r33,500,000	34,600,000	36,800,000

*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 has estimated the production at 10-12 million ounces in recent years.

(a) Mined gold only.

(d) Exports.

(b) Estimated.

(e) Imports into the United States.

(c) United States Bureau of Mines' estimate.

TOTAL EXPORTS OF GOLD*
(Metal content)

Fine troy ounces

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Bullion, refined ..	11,258,836	10,738,067	21,691,400	21,462,066	24,604,143	28,965,803
Coin	41,000	564,000	345,207	350,165	868,860	694,102
Ghana—						
Bullion	788,151	851,433	902,595	893,113	852,619	945,829
Kenya—						
Bullion	7,284	7,753	9,054	8,645	12,100	8,917
Nigeria—						
Bullion	230	—	—	—	—	—
Rhodesia and Nyasaland—						
Concentrates, etc.* ..	2,400	1,100	2,200	1,900	1,500	1,400
Bullion	547,140	542,747	557,422	556,178	565,169	548,999
Tanganyika—						
Concentrates	9,192	11,951	10,391	8,963	521	—
Bullion, refined ..	54,088	56,299	85,403	98,024	99,574	101,597
Uganda—						
Bullion	182	278	334	650	383	236
Canada—						
Bullion—						
Unrefined	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	96,986	75,796	60,812
Refined	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	6,125,624	3,658,605	2,769,243
Coin	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	60	75,200
British Guiana—						
Bullion	7,699	10,163	654	—	1	<i>n.a.</i>
India—						
Bullion	—	1,568	298	(b) —	(b) 1	<i>n.a.</i>
Malaya—						
Bullion	9,348	10,023	18,256	4,559	278	2,211
Hong Kong—						
Bullion	1,850,000	1,239,000	1,444,000	1,366,000	980,000	987,000
Sarawak—						
Bullion	847	188	23	—	—	—
Australia (a)—						
Ores, etc.	21,817	23,787	16,025	25,085	28,930	42,195
Bullion, refined ..	908,224	405,307	203,096	653,097	2,552,869	573,106
do. unrefined ..	42	—	—	—	—	7
Fiji—						
Bullion	76,620	81,120	70,719	71,677	95,349	84,926
New Guinea (a)—						
Bullion	78,363	54,542	47,153	40,321	43,363	45,910
New Zealand*—						
Auriferous quartz, etc.	—	—	—	6	—	—
Beaten, rolled or drawn	25,000	18,000	29,000	25,000	22,000	16,000
Papua (a)—						
Bullion	397	454	410	128	75	19
Irish Republic*—						
Bullion	1,700	2,000	1,300	600	1,500	5,200

*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.

EXPORTS OF GOLD (cont.)

Fine troy ounces

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Bullion and scrap ..	90,000	268,000*	216,000*	215,000	40,000*	79,000*
Coin	71,000	363,000	270,000	170,000	186,000	235,000
France—						
Bullion and scrap ..	2,403,000	3,197,000	709,000	644,000	1,011,000	632,000*
Coin	32,000	34,000	42,000	57,000	18,000	—
Beaten, rolled or drawn	55,000*	41,000*	102,000*	42,000*	49,000*	30,000*
Germany (Federal)—						
Bullion	49,000	105,000	101,000	112,000	127,000	157,000
Netherlands—						
Bullion, etc.	303,000*	155,000*	27,000*	51,000*	77,000*	76,000
Coin	246,000*	33,000	48,000	4,000	5,000	400
Sweden*—						
Bullion	44,000	37,000	37,000	49,000	49,000	52,000
Switzerland—						
Bullion	79,000	225,000*	267,000	294,000	244,000	272,000
Cameroun—						
Bullion	1,400	12,000	700	300	600	700*
Congo Republic—						
Bullion	363,000*	332,000	317,000* (a)	300,000	n.a.	n.a.
Equatorial African Community—						
Bullion	30,000	24,000	17,000*	20,000	16,000*	14,000*
Mozambique—						
Bullion	600	1,000	184,000	—	376,000	n.a.
South Africa—						
Ore and concentrates* ..	8,200	7,600	7,200	800	640	1,393
Bullion	17,335,000	17,774,000	19,387,000	22,836,000	19,505,000	19,390,000
Sudan*—						
Bullion	1,500	2,000	1,300	2,000	400	600
Upper Volta—						
Bullion	—	—	—	1,000	7,000	28,000
Honduras—						
Ore and base bullion ..	2,028	2,484	3,061	2,286	2,310	10,819
Mexico—						
Bullion	57,000	645,000	44,500	625,000	614,000	36,000
Nicaragua—						
Bullion	196,133	208,398	208,805	198,189	210,748	221,325
Salvador—						
Bullion, etc.	3,000	2,000	2,000	1,000	—	—
United States—						
Ore and base bullion ..	23,953	26,929	20,498	9,196	13,717	22,724
Refined bullion	4,781,780	859,042	29,104	37,676	22,132,692	10,861,510
Argentina—						
Bullion and coin	2,485,000	1,433,000	4,500	9,000	—	—
Bolivia—						
Ore	450	17,172	31,986	24,388	258	34,409
Bullion	46,490	1,943	3,260	21,069	80,958	—
Chile—						
Ores and concentrates	70,310	58,151	55,585	49,014	48,043	n.a.
Colombia—						
Bullion	114,674	—	—	—	—	n.a.
Ecuador—						
Concentrates*	17,000	20,000	22,000	18,000	15,000	n.a.
French Guiana—						
Bullion	9,000	16,000	16,000*	18,000*	8,000*	5,500*
Peru—						
Ores, concentrates, etc.	31,407	52,913	92,620	57,325	54,416	58,902
Bullion	259,458	278,433	21,300	35,295	18,946	12,497
Venezuela—						
Bullion*	33,000	7,000	—	3,007,000	—	—

(a) Estimated.

EXPORTS OF GOLD (cont.)

Fine troy ounces

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES (cont.)						
Philippine Republic— Ore and base bullion (a)	51,113	59,459	33,793	67,553	80,507	47,673
Refined bullion (a) ..	156,100	272,930	223,762	286,298	466,782	298,229
Lebanon— Coin	106,000	42,000	56,000	n.a.	n.a.	n.a.

(a) Imports into the United States.

TOTAL IMPORTS OF GOLD*

(Metal content)

Fine troy ounces

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore, etc.*	50,000	45,000	31,500	49,800	49,700	59,253
Bullion—						
Unrefined	1,509,553	1,542,497	1,594,956	1,559,520	1,521,129	1,539,964
Refined	22,491,593	22,460,998	26,005,116	24,956,264	49,265,267	32,542,211
Coin	36,000	436,000	211,629	4,361	9,980	500,348
Malta*—						
Bullion and coin ..	7,300	8,000	7,600	8,600	8,300	6,300
Ghana—						
Bullion	—	—	—	533	160,190	1,425
Kenya—						
Bullion	247	96	110	123	294	398
Nigeria—						
Bullion and coin ..	672	331	—	20	—	—
Rhodesia and Nyasaland*						
Concentrates	300	600	900	1,700	2,350	—
Uganda—						
Bullion	876	367	444	563	240	—
Zanzibar*—						
Bullion	900	700	1,100	1,100	1,100	2,300
Canada—						
Bullion	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	147,166	122,222	80,436
Coin*	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	38,000	213,000	50,000
Jamaica*—						
Bullion and coin ..	1,000	170	100	25	—	200
Trinidad and Tobago—						
Bullion	5,456	6,215	6,981	6,000	6,600	7,349
Ceylon*—						
Bullion	11,000	45	11,250	11,000	11,000	11,000
Partly worked	—	—	—	23	—	—
Cyprus—						
Bullion	2,736	3,281	5,060	4,223	5,918	7,182
Hong Kong—						
Bullion	1,853,000	1,236,000	1,450,000	1,403,000	986,000	969,000
Coin	3,500	—	—	—	—	—
India—						
Bullion	28,751	36,515	20,606	(c) 26,231	(c) 43,973	<i>n.a.</i>
Coin	422	306	142	(c) 978	(c) 467	<i>n.a.</i>
Malaya—						
Bullion	846	978	145	1,974	503	376
Sarawak—						
Bullion (b)	3,600	4,000	14,700	188,000	230,000	29,000
Australia(a)—						
Bullion	143,852	169,119	139,305	161,222	140,961	135,005
Fiji—						
Bullion	175	245	212	232*	589*	287*
New Zealand—						
Bullion	3,381	3,484	3,485	5,915	4,816	3,598
Beaten, rolled or drawn	191	220	189	148	181	6,662

*See note on page 134.

(a) Years ended June 30 of that stated.

(b) Including coin and partly worked.

(c) Years ended March 31 following that stated.

IMPORTS OF GOLD (cont.)

Fine troy ounces

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
Austria—						
Bullion	27,000	47,000	61,000	536,000	743,000*	963,000*
Belgium-Luxemburg ..						
E.U.—						
Bullion, scrap, etc. ..	831,000*	1,579,000	665,000*	613,000*	558,000*	284,000*
Coin	68,000	141,000	154,000	312,000	240,000	260,000
Finland—						
Bullion and scrap ..	150	1,000	300	—	<i>n.a.</i>	<i>n.a.</i>
France—						
Bullion and scrap ..	2,655,000	2,674,000	1,740,000	3,800,000	6,428,000	2,569,000*
Coin	20,000	15,000	5,000	13,000	24,000	6,000
Beaten, rolled or drawn	3,000	3,000*	3,000	6,000	6,000*	8,000
Germany (Federal)—						
Bullion	1,388,000	1,484,000	1,432,000	1,945,000	2,408,000	2,898,000
Coin	37,000	43,000	34,000	80,000	171,000	253,000
Italy—						
Bullion and scrap ..	447,000	815,000*	10,492,000	10,049,000	1,476,000*	<i>n.a.</i>
Netherlands—						
Bullion	137,000	160,000*	94,000	159,000	186,000	188,000
Coin	111,000	2,000	400	100*	300	—
Norway—						
Bullion	<i>n.a.</i>	<i>n.a.</i>	10,000	11,000	17,000	18,000
Sheets and rolled ..	200	12,000	2,000*	1,000*	1,500*	1,500*
Sweden—						
Bullion*	7,000	8,000	4,000	9,000	52,000	354,000
Switzerland—						
Bullion	33,000	31,000	34,000	43,000	58,000	46,000
Algeria—						
Beaten, rolled or drawn	20,000*	20,000*	17,000*	17,000*	<i>n.a.</i>	<i>n.a.</i>
Egypt—						
Bullion	—	400	700	1,000	1,000	<i>n.a.</i>
Mozambique—						
Bullion	103,000	111,000	111,000	—	110,000	<i>n.a.</i>
Sudan—						
Bullion	1,020	1,694	1,086	1,617	666	—
Mexico—						
Bullion	573,000	1,000	859,000	573,000	1,000	<i>n.a.</i>
United States—						
Ore and base bullion ..	1,185,917	1,099,484	444,416	460,579	456,139	382,468
Refined bullion ..	6,515,253	7,020,242	8,040,528	8,861,716	1,159,320	3,929,718
Coin*	<i>n.a.</i>	24,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Brazil—						
Bullion	1,000	700	200	500	200	400
Formosa—						
Bullion	6,000	6,000	42,000	11,000	69,000	71,000*
Lebanon—						
Bullion and scrap ..	628,000	340,000	1,052,000	1,139,000	1,924,000	<i>n.a.</i>
Coin	57,000	134,000	130,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Philippine Republic—						
Bullion	8,646	25,693	24,953	2,876	—	<i>n.a.</i>
Syria—						
Bullion and scrap (a) ..	27,000	348,000	56,000	18,000	—	<i>n.a.</i>

(a) Gross weight.

GRAPHITE
PRODUCTION OF GRAPHITE

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Kenya	943	660	567	994	—	—
Tanganyika (a)	—	—	25	24	—	—
Canada	—	—	—	—	1	—
Ceylon	8,190	5,637	(c) 7,872	(c) 9,024	(c) 8,942	(c) 8,630
Hong Kong	3,305	3,285	3,283	3,799	1,665	805
OTHER COUNTRIES						
Austria (a)	18,622	20,820	61,110	86,646	79,692	87,872
Germany (Federal)	11,209	10,733	11,037	11,400	11,919	12,107
Italy	2,762	3,922	3,086	3,659	4,005	3,306
Norway	5,594	4,399	4,818	5,883	5,625	6,449
Spain	271	364	408	257	271	n.a.
Sweden (a)	734	530	—	—	—	—
Yugoslavia	984	886	984	(b) 1,000	(b) 1,000	n.a.
Malagasy Republic—						
Flake	8,130	4,930	5,164	6,950	7,645	} 16,203
Powder	7,039	7,058	6,096	7,266	7,063	
Morocco	—	—	122	—	—	—
South Africa	1,562	781	551	798	860	1,168
Mexico	23,159	19,254	27,397	33,774	17,720	28,566
Argentina	403	469	495	(b) 500	776	n.a.
Brazil	794	1,181	1,191	1,279	1,428	1,486
Formosa	881	817	554	490	787	(b) 800
Japan—						
Flake	2,594	2,062	3,171	3,425	2,952	2,982
Amorphous	2,113	1,346	805	1,021	473	421
Korea (South)—						
Flake	256	143	149	689	1,205	1,197
Amorphous	145,015	92,541	81,142	90,184	87,091	180,975
Korea (North)	31,222	(b) 40,000	(b) 50,000	(b) 50,000	(b) 50,000	(b) 50,000
TOTAL*	300,000	240,000	290,000	340,000	310,000	420,000

*Excluding graphite known to have been produced in the U.S.S.R. and China. An allowance, however, 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	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Crucibles	2,574	2,392	2,525	2,815	3,272	2,964
Kenya	662	508	584	601	131	81
Tanganyika (crude)	—	—	25	25	—	—
Ceylon	8,235	5,662	7,872	9,024	8,942	8,630
Hong Kong	4,788	2,172	3,705	7,856	2,704	1,626
India	—	6	5	(c) 18	(c) 16	(c) 19
Australia (a)	10	3	4	16	7	3
OTHER COUNTRIES						
Austria	14,055	14,445	16,153	18,120	19,701	17,938
Belgium-Luxemburg						
E.U.	32	60	26	25	96	41
Denmark	20	1	—	2	8	4
France	770	673	630	1,138	1,146	1,166
Germany (Federal)	5,399	4,719	5,574	5,872	5,345	6,531
Italy	1,813	1,449	1,238	1,565	1,668	1,588
Netherlands	(b) 1,136	(b) 2,438	(b) 1,806	498	86	153
Norway	5,626	4,257	4,395	5,329	6,080	6,550
Sweden	1	—	26	—	49	26
U.S.S.R.	4,200	3,700	4,700	3,700	4,400	5,100
Algeria	68	231	259	104	<i>n.a.</i>	<i>n.a.</i>
Malagasy Republic	16,052	10,924	10,843	15,574	14,654	16,203
Morocco	2	—	—	30	19	—
South Africa	125	81	73	25	37	<i>n.a.</i>
Mexico	22,074	17,239	23,179	34,385	17,359	29,741
United States	1,204	1,041	1,222	1,657	1,391	1,035
Japan	356	488	787	616	619	3,248
Korea (South)	142,634	67,373	43,943	54,558	56,543	46,631

(a) Years ended June 30 of that stated.

(c) Years ended March 31 following that stated.

(b) Including artificial graphite.

IMPORTS OF GRAPHITE

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Natural	8,295	4,737	6,129	9,509	9,380	8,732
Artificial	3,480	3,870	1,077	280	382	262
Mauritius—						
Crucibles	5	2	1	2	—	—
Rhodesia and Nyasaland	57	108	54	26	52	47
Canada—						
Unground	(£27,645)	(£19,494)	(£23,797)	(£27,836)	(£16,714)	(£19,525)
Ground, including manufactures	(£279,378)	(£333,050)	(£362,918)	(£332,999)	(£332,955)	(£455,912)
Crucibles	(£88,557)	(£60,826)	(£83,347)	(£86,819)	(£76,008)	(£85,142)
Hong Kong	1,728	681	1,286	5,747	3,073	211
India—						
Graphite	1,088	626	1,060	(a) 1,777	(a) 1,415	(a) 2,285
Crucibles	(£144,395)	(£202,603)	(£149,358)	a(£212,812)	a(£235,554)	a(£185,635)
Malaya	103	76	93	129	150	198
Pakistan—						
Graphite	111	132	249	771	300	391
Crucibles	15	—	65	63	n.a.	n.a.
Australia (b) ..	1,009	816	944	987	1,039	836
New Zealand ..	52	54	44	54	108	34
OTHER COUNTRIES						
Austria—						
Graphite	1,157	1,293	131	212	164	216
Crucibles, etc. ..	215	185	194	193	195	167
Belgium-Luxemburg						
E.U.	1,971	2,174	2,606	1,338	1,236	906
Denmark—						
Graphite	1,208	578	475	502	401	574
Crucibles	101	119	n.a.	n.a.	n.a.	n.a.
Finland	266	262	472	474	220	322
France	4,782	4,197	3,874	5,065	5,137	4,778
Germany (Federal)	12,450	12,323	11,528	16,950	16,340	14,227
Greece	167	111	156	249	163	240
Iceland	10	20	20	10	15	11
Italy	6,632	5,004	5,688	7,082	8,923	8,768
Netherlands ..	(c) 1,059	(c) 900	(c) 814	854	399	390
Norway—						
Graphite	346	185	83	300	602	413
Crucibles, etc. ..	98	87	n.a.	n.a.	n.a.	n.a.
Poland	n.a.	6,416	6,589	7,044	8,025	n.a.
Portugal	56	80	124	91	118	112
Sweden	1,668	1,087	736	844	854	819
Switzerland ..	n.a.	n.a.	n.a.	672	684	646
Yugoslavia ..	953	658	800	1,170	1,154	1,208
Algeria	4	8	9	22	n.a.	n.a.
Congo Republic ..	40	5	2	n.a.	n.a.	n.a.
Egypt	276	329	614	315	112	n.a.
Morocco	5	19	15	29	20	19
Mozambique ..	3	3	1	3	1	n.a.
South Africa ..	151	390	162	346	281	—
Tunisia	3	1	1	2	4	—
Mexico—						
Graphite	90	198	155	247	146	82
Crucibles	205	193	174	304	264	215

(a) Years ended March 31 following that stated.

(c) Including artificial graphite.

(b) Years ended June 30 of that stated.

IMPORTS OF GRAPHITE (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
United States (a) ..	37,073	24,144	33,074	r 42,981	26,398	31,151
Argentina	616	248	310	71	124	119
Brazil—						
Graphite	—	60	154	261	197	189
Crucibles	291	232	271	343	323	372
Chile	79	72	66	67	n.a.	59
Colombia (b)	38	81	77	192	76	39
Peru (b)	26	83	57	64	59	50
Uruguay	37	—	13	22	n.a.	n.a.
Venezuela	155	254	212	98	58	143
Burma	95	96	47	452	54	75
Formosa	2,123	1,293	841	1,021	980	1,545
Indonesia (b)	190	174	265	279	505	n.a.
Israel—						
Crucibles	34	60	39	24	n.a.	25
Lebanon (b)	11	6	29	35	31	n.a.
Japan	148,831	81,877	47,854	61,974	67,302	65,256
Philippine Republic	67	108	66	121	140	270
Syria (b)	23	16	27	n.a.	n.a.	n.a.
Thailand	418	671	780	790	611	452
Turkey—						
Graphite	70	24	63	109	79	78
Crucibles, etc.	39	111	208	103	44	106

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

Year	Long tons
1957	7
1958	22
1959	5
1960	166
1961	163
1962	4,142

(b) Including artificial graphite.

GYPSUM
PRODUCTION OF GYPSUM

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Gypsum.. ..	1,699,200	1,486,800	1,586,400	1,732,800	1,888,700	1,966,600
Anhydrite	1,650,300	1,764,400	1,801,400	1,862,200	1,842,200	836,300
Kenya	(c) 4,846	10,905	13,117	16,863	19,768	26,420
Tanganyika	9,493	9,145	6,745	4,564	1,306	1,965
Canada (a)	4,202,254	3,550,637	5,342,272	4,547,466	4,517,641	4,629,000
Jamaica	r 235,141	r 575,739	r 468,154	r 245,832	223,045	225,307
Trinidad	2,336	2,777	4,850	6,467	2,804	3,587
Ceylon	744	136	6	n.a.	—	—
Cyprus (b)	144,000	139,000	r 280,000	200,000	130,000	140,000
India	921,987	781,846	846,139	981,651	851,911	1,106,023
Pakistan (g)	64,064	66,095	97,243	89,541	99,598	136,728
Australia	478,436	504,938	516,791	580,878	609,907	631,120
Irish Republic	116,667	105,687	135,312	178,200	164,426	172,593
OTHER COUNTRIES						
Austria—						
Gypsum.. ..	364,305	415,612	414,880	440,656	468,989	483,704
Anhydrite	153,029	117,816	139,775	211,455	200,372	189,631
Belgium	35,809	42,896	—	—	—	—
Bulgaria	n.a.	80,000	110,000	120,000	170,000	n.a.
Czechoslovakia	208,000	247,000	285,000	325,000	(e) 344,000	(e) 370,000
France (a)	3,596,700	3,612,800	3,684,162	3,716,979	3,774,506	3,934,000
Germany (Federal) (d) ..	866,000	845,000	933,000	1,016,000	998,000	981,000
Germany (East) (d) ..	228,000	219,000	249,000	253,000	250,000	266,000
Greece	(b) 17,000	21,564	2,000	—	—	—
Italy (including alabaster)	943,046	1,222,179	r 1,952,719	1,874,179	2,048,260	n.a.
Luxemburg	9,523	9,990	9,621	8,320	9,278	8,030
Poland	(e) 350,000	(e) 345,000	(e) 462,000	(e) 512,000	461,000	540,000
Portugal	63,626	42,684	53,400	60,664	70,813	71,118
Spain—						
Gypsum	1,585,718	(b)2,211,000	rb2,477,000	(b)2,413,000	(b)2,966,000	n.a.
Anhydrite (b)	—	47,000	156,000	35,000	38,000	n.a.
Switzerland	231,000	88,000	(e) 98,000	(e) 98,000	(e) 98,000	(e) 98,000
U.S.S.R.	ef 3,450,000	(e)6,299,000	(e)6,496,000	(e)6,888,000	(e)7,000,000	(e)7,388,000
Yugoslavia	83,000	75,000	91,000	104,000	123,000	(e) 98,000
Algeria	75,196	125,041	169,100	173,774	n.a.	n.a.
Angola	6,704	4,557	13,000	(e) 12,000	(e) 12,000	16,000
Congo Republic.. ..	11,000	(e) 10,000	—	—	—	—
Egypt	930,000	521,000	515,000	394,000	455,000	(e) 390,000
South Africa	160,618	228,217	199,751	192,692	170,624	188,970
Sudan	—	—	—	—	1,561	7,384
Tunisia	27,185	16,300	6,000	13,570	n.a.	n.a.
Dominican Republic	72,129	75,206	155,999	319,572	403,000	(e) 430,000
Guatemala	6,000	15,000	18,000	14,000	12,000	(e) 10,000
Mexico	804,000	733,000	815,000	778,000	765,000	782,000
United States	8,209,446	8,613,285	9,700,000	8,772,000	8,482,000	8,901,000
Argentina	150,683	174,762	113,000	(e) 110,000	(e) 110,000	(e) 110,000
Brazil	107,961	128,022	180,137	101,473	158,492	106,372
Chile	(e) 59,000	(e) 49,000	78,000	40,000	79,000	(e) 113,000
Colombia.. ..	55,000	49,000	70,000	70,000	75,000	82,000
Venezuela	—	—	(e) 1,000	5,000	7,000	10,000

(a) Including anhydrite.

(b) Estimated.

(c) Excluding gypsum used in the manufacture of cement.

(d) Crude estimated on production of calcined.

(e) United States Bureau of Mines' estimate.

(f) Excluding gypsum used in agric ulture

(g) West Pakistan.

PRODUCTION OF GYPSUM (cont.)

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES (cont.)						
Burma	—	—	1,925	1,035	840	(a) 1,000
Formosa	6,283	9,943	10,178	10,461	11,746	16,028
Israel	21,200	(a) 35,000	(a) 60,000	(a) 60,000	(a) 40,000	(a) 40,000
Japan	470,357	471,069	532,097	722,949	713,106	783,000
Philippine Republic	—	1,508	1,739	8,934	8,271	14,225
Thailand	2,067	5,600	3,400	13,000	11,850	21,000
TOTAL*	33,000,000	r36,000,000	r41,000,000	r40,000,000	41,000,000	42,000,000

*Excluding gypsum known to have been produced in Roumania, Cuba, China, Korea and many other countries. Also excluded is production of "Juss" (an impure sandy gypsum) in Iraq, recently amounting to over 300,000 tons annually.

(a) Estimated.

EXPORTS OF GYPSUM

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Calcined	17,491	11,576	9,179	11,147	12,762	7,516
Tanganyika	9,667	9,152	6,758	4,350	280	1,975
Canada—						
Crude	3,045,254	2,587,705	4,329,086	3,815,775	3,410,129	3,716,962
Calcined	21	14	333	29	—	—
Jamaica	178,986	587,759	370,905	207,682	82,886	256,786
Cyprus—						
Crude	41,687	27,067	52,304	107,560	24,437	35,099
Calcined	1,256	2,722	1,538	2,144	1,830	1,919
India	1,510	1,385	756	(b) —	(b) —	(b) —
Malaya—						
Crude and calcined ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	489
Australia (a)—						
Crude	33,496	70,900	58,717	84,110	89,960	94,008
Calcined	5,181	5,709	2,118	2,337	3,388	4,008
Irish Republic—						
Crude	55,966	38,590	64,978	87,056	82,131	85,262
OTHER COUNTRIES						
Austria—						
Crude	22,013	26,167	25,175	27,169	32,552	38,399
Calcined	1,742	57	486	888	1,266	838
Belgium-Luxemburg						
E.U.—						
Crude	816	510	6	116	563	238
Calcined	9,692	9,871	12,493	12,835	13,095	13,891
Denmark—						
Crude and calcined ..	4	14	13	30	19	27
France—						
Crude	369,085	389,875	432,459	493,079	550,593	553,907
Calcined	70,362	65,957	74,672	93,440	109,120	119,517
Germany (Federal)—						
Crude and calcined ..	169,165	142,932	147,262	197,395	175,975	184,008
Germany (East)—						
Calcined	37,777	35,059	33,204	34,961	37,210	35,251
Italy—						
Crude	941	2,021	6,765	1,325	889	422
Calcined	403	517	4,248	8,084	6,929	6,649
Netherlands—						
Calcined	5,738	4,071	3,641	257	332	148
Portugal—						
Crude	710	884	628	636	369	146
Calcined	—	—	—	166	57	78
Spain—						
Crude and calcined ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	4,552	4,694
Sweden—						
Calcined	11	307	205	98	145	109
Switzerland—						
Ground and calcined ..	75	63	95	157	104	62
Yugoslavia—						
Crude	15	—	9,511	88	—	—
Ground and calcined ..	4,497	1,559	2,441	1,178	216	—
Algeria	16	—	1	1	<i>n.a.</i>	<i>n.a.</i>
Angola—						
Crude	5,257	3,918	3,005	8,473	8,286	6,651
Egypt—						
Crude and ground ..	20,304	12,509	22,564	23,456	42,213	<i>n.a.</i>
Calcined	19,956	25,105	9,970	16,713	11,290	<i>n.a.</i>

(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	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Morocco—						
Crude	15,413	26,188	22,691	14,661	30,490	22,098
Calcined	335	2,412	697	61	668	922
South Africa	33,971	47,529	34,450	30,684	22,779	16,429
Dominican Republic	65,127	51,435	130,471	332,840	374,802	<i>n.a.</i>
Mexico—						
Crude	493,042	545,054	772,398	656,530	700,667	628,768
Calcined	477	74	3	28	5	6
United States—						
Crude and calcined	21,828	25,783	12,778	15,182	17,744	17,531
Argentina	544	33	1,006	3,059	945	3,899
Venezuela	2,756	2,608	—	—	—	1
Iran (a)—						
Crude	<i>n.a.</i>	5,884	1,376	579	<i>n.a.</i>	<i>n.a.</i>
Calcined	<i>n.a.</i>	—	2,637	3,826	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Crude	58	204	169	355	87	4,704
Calcined	372	362	357	432	272	589
Syria	5,171	6,892	12,136	<i>n.a.</i>	5,764	<i>n.a.</i>

(a) Years ended March 20 following that stated.

IMPORTS OF GYPSUM

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Crude, including						
alabaster	70,876	78,544	102,418	141,059	146,319	131,579
Calcined	1,669	842	945	726	1,072	1,251
Nigeria—						
Crude	1,953	4,595	9,659	13,028	21,384	33,539
Rhodesia and Nyasaland—						
Crude and calcined ..	34,509	38,999	30,839	28,166	23,469	19,044
Bermuda—						
Calcined	322	352	672	593	517	396
Canada—						
Crude and ground ..	82,267	96,462	105,205	53,581	59,000	62,453
Calcined	15,555	28,384	15,855	11,155	8,545	6,296
India—						
Crude	27,954	4,918	1,101	(a) 825	(a) 287	(a) 32,418
Calcined	97	101	29	(a) 175	(a) 115	(a) 10
Malaya—						
Crude and calcined ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	23,600
New Zealand—						
Crude	47,413	58,595	57,662	65,363	76,524	85,800
Calcined	16,833	14,819	11,180	14,708	16,566	4,103
OTHER COUNTRIES						
Austria—						
Crude	1,375	6,856	14,376	11,772	9,234	14,301
Calcined	1,207	1,796	1,125	2,187	3,523	3,456
Belgium-Luxemburg						
E.U.—						
Crude	262,124	231,288	262,467	270,638	303,534	305,245
Calcined	47,794	40,052	34,943	36,759	40,683	43,649
Denmark—						
Crude	40,135	34,261	44,773	48,137	56,765	59,038
Calcined	5,720	7,132	5,991	5,710	5,797	6,289
Finland—						
Crude	41,455	37,883	63,099	58,914	68,664	59,135
Calcined	35,884	29,083	29,939	35,887	37,494	36,702
France—						
Crude	18,650	3,362	10,097	17,106	15,503	18,006
Calcined	1,019	1,017	2,702	3,194	2,511	2,490
Germany (Federal)—						
Crude and calcined ..	13,458	19,295	38,679	53,475	58,563	64,668
Greece—						
Calcined	182	185	125	188	129	174
Iceland	48	32	5,488	3,465	4,549	900
Italy—						
Crude	38	32	4	110	46	34
Calcined	67	117	301	338	544	362
Netherlands—						
Crude	70,361	59,952	63,524	92,316	84,084	89,903
Calcined	44,294	43,795	44,651	48,114	45,705	48,213
Ground	2,509	1,372	622	(b)	(b)	(b)
Norway—						
Crude	34,758	36,824	39,996	42,970	53,584	49,252
Calcined	4,370	4,779	5,996	4,382	4,000	4,461
Portugal—						
Crude	9,222	9,350	9,517	10,875	10,146	12,598
Calcined	16	22	21	17	14	5
Sweden—						
Crude	115,074	126,716	133,813	180,185	184,334	242,181
Calcined	23,740	19,792	19,465	20,519	21,716	23,054

(a) Years ended March 31 following that stated.

(b) Included with crude and calcined.

IMPORTS OF GYPSUM (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Switzerland—						
Crude	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	9,263	14,954	16,628
Ground and calcined ..	496	632	1,633	7,168	8,153	5,593
Algeria—						
Crude	4,922	39	2,854	2,264	<i>n.a.</i>	<i>n.a.</i>
Calcined	7,866	6,328	9,938	11,167	<i>n.a.</i>	<i>n.a.</i>
Angola—						
Crude and calcined ..	575	662	443	690	258	185
Congo Republic—						
Crude and calcined ..	10,753	10,459	9,146	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Egypt—						
Calcined	6	17	146	8	—	<i>n.a.</i>
Malagasy Republic ..	104	86	3,140	83	1,634	1,125
Morocco	55	42	28	63	12	48
Mozambique—						
Crude	7,827	9,012	10,355	12,508	8,729	<i>n.a.</i>
Calcined	118	115	73	134	182	<i>n.a.</i>
South Africa—						
Crude and calcined ..	1,641	1,556	1,945	2,580	<i>n.a.</i>	<i>n.a.</i>
Sudan	200	356	318	717	194	<i>n.a.</i>
Tunisia—						
Crude	—	—	—	1	—	—
Calcined	113	131	171	228	272	290
Costa Rica	78	79	128	121	116	155
Cuba	4,235	4,323	2,307	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Honduras—						
Calcined	32	101	8	10	58	2
Mexico—						
Crude	1,445	1,029	19	148	1	88
Panama Republic ..	<i>n.a.</i>	2,254	3,256	3,450	6,053	<i>n.a.</i>
Salvador—						
Crude	3,039	2,564	846	1,429	1,445	1,382
Calcined	39	30	34	337	41	35
United States—						
Crude	3,870,060	3,613,392	5,474,665	r 4,733,236	4,434,876	4,840,068
Ground and calcined ..	777	703	915	1,035	1,006	1,589
Argentina—						
Crude	137	32	27	24	146	22
Brazil—						
Crude	33	13	26	22	23	31
Colombia—						
Crude	9,151	11,072	17,884	24,743	2,491	3,467
Calcined	269	362	411	616	504	586
Peru—						
Crude and calcined ..	79	58	88	76	168	69
Uruguay—						
Crude and ground ..	8,783	20,529	33,174	9,283	<i>n.a.</i>	<i>n.a.</i>
Venezuela	114	122	121	75	85	37
Formosa	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	24,325	24,822	35,423
Indonesia—						
Crude	12,438	364	5,586	9,843	9,897	<i>n.a.</i>
Calcined	60	88	53	309	205	<i>n.a.</i>
Israel—						
Crude	—	—	16	79	10	<i>n.a.</i>
Calcined	54	94	75	7	120	<i>n.a.</i>
Japan	21,032	26,981	22,997	75,620	53,745	78,411
Korea (South)	<i>n.a.</i>	4,925	8,564	18,035	20,862	21,744
Lebanon	37,415	27,282	42,248	45,144	18,197	<i>n.a.</i>
Philippine Republic—						
Crude	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	} 35,031	39,225
Calcined	<i>n.a.</i>	534	675	611		
Syria	48	23	12	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Thailand—						
Crude	962	546	208	163	196	30
Vietnam (South) ..	622	448	415	633	780	<i>n.a.</i>

IODINE
PRODUCTION OF IODINE

Lb. avdp.

Producing Country	1957	1958	1959	1960	1961	1962
Italy	31,639	33,270	33,131	27,712	27,661	<i>n.a.</i>
Chile	r 2,982,303	r 2,904,469	r 2,780,525	r 2,407,463	5,406,587	4,354,000
Indonesia	3,543	589	785	7,923	6,931	<i>n.a.</i>
Japan	1,400,000	1,600,000	r 1,726,000	2,094,000	2,469,152	3,106,000

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

EXPORTS OF IODINE

Lb. avdp.

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom ..	111,572	111,903	115,936	127,694	47,634	45,780
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Crude	2,200	1,300	9,900	2,200	19,600	700
Resublimed	17,200	30,900	38,100	35,500	51,100	65,900
France—						
Resublimed	41,100	13,400	39,200	40,100	9,900	7,000
Germany (Federal) ..	37,000	39,500	60,600	78,500	57,100	43,700
Netherlands—						
Crude	} 7,000	18,000	26,000	{ —	<i>n.a.</i>	7,000
Resublimed .. .. .							35,000	18,000	4,000
Chile	2,733,031	2,996,505	2,932,831	3,800,758	5,021,193	<i>n.a.</i>
Japan—						
Crude	1,045,924	1,233,327	1,041,735	1,285,883	1,538,002	} 1,925,766
Resublimed	34,266	28,671	8,483	50,138	31,700	

IMPORTS OF IODINE

Lb. avdp.

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom ..	296,645	857,731	889,278	1,206,763	987,422	1,167,163
Canada—						
Crude	93,122	80,694	111,812	83,035	243,935	150,558
India	112,578	39,419	162,646	(a) 175,409	(a) 163,925	(a) 224,673
Australia (b)—						
Crude	11,300	9,300	13,700	11,400	10,000	6,700
OTHER COUNTRIES						
Belgium-Luxemburg E.U.—						
Crude	73,000	101,600	208,600	144,600	147,300	179,700
Resublimed	2,200	700	2,600	5,100	400	700
Denmark	1,800	2,200	1,100	14,800	2,000	7,000
France—						
Crude	235,200	248,000	288,600	361,800	325,800	313,000
Germany (Federal) ..	421,300	474,700	661,600	734,100	618,400	701,500
Greece	5,130	4,850	3,512	3,607	7,103	7,663
Italy—						
Crude	441	9,628	22,992	26,729	53,572	106,924
Resublimed	17,156	21,502	19,568	3,336	22,267	45,636
Portugal—						
Crude	5,079	3,441	4,738	2,000	3,500	4,900
Resublimed .. ..							4,000	2,600	1,500
Spain—						
Crude	35,395	44,137	46,835	11,035	12,857	41,910
Resublimed	—	4	—	—	664	1,764
Sweden	13,000	11,000	11,000	11,000	13,000	7,000
Morocco—						
Resublimed	772	492	456	622	1,393	648
Costa Rica	<i>n.a.</i>	<i>n.a.</i>	558	434	333	791
Mexico	17,946	15,644	19,861	18,647	15,130	21,905
United States—						
Crude	2,685,489	1,560,937	1,466,238	1,893,958	3,016,641	3,025,711
Resublimed	—	—	441	110	220	9,050
Argentina—						
Crude	24,218	11,191	50,446	17,688	59,470	48,596
Brazil	19,925	8,682	38,233	24,630	23,041	35,784
Colombia	5,437	4,969	6,285	6,744	4,048	4,786
Peru—						
Crude	2,500	220	2,191	1,246	1,552	1,387
Resublimed	1,618	1,219	1,248	1,385	2,363	1,204
Venezuela	2,559	2,937	51,943	2,357	6,028	6,065

(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			
	1957	1958	1959	1960	1961	1962	1957	1958	1959	1960	1961	1962		
COMMONWEALTH COUNTRIES														
United Kingdom (a) ...	16,902,100	14,612,400	14,869,500	17,087,400	16,618,000	15,277,100	4,564,000	3,945,000	4,163,000	4,614,000	4,460,000	4,125,000		
Sierra Leone ...	1,325,895	1,295,349	1,421,533	1,391,572	1,551,607	1,820,927	920,000	815,000	914,000	906,000	1,074,000	1,184,000		
Southern Rhodesia ...	132,829	142,416	127,679	135,574	1,581,868	1,609,847	76,400	84,000	75,000	92,000	225,000	359,000		
Canada ...	19,885,870	14,041,560	21,864,876	19,241,813	18,177,881	24,909,555	10,924,600	7,723,000	12,020,000	10,583,000	9,998,000	13,700,000		
Hong Kong ...	84,152	105,125	134,989	105,174,000	12,076,039	12,970,390	3,050,000	3,689,000	4,870,000	6,410,000	7,370,000	7,910,000		
India ...	2,901,017	2,888,556	3,052,826	3,023,289	6,294,470	6,030,300	1,712,000	1,975,000	1,755,000	3,443,000	3,451,000	3,499,000		
Ceylon ...	2,972,359	2,795,261	3,760,684	5,640,058	6,753,520	6,507,302	1,605,000	1,365,000	2,106,000	3,159,000	3,771,000	3,644,000		
Malaya ...	23,313	8,097	2,250	3,421	3,804	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.		
Pakistan (e) ...	3,800,823	3,917,424	4,140,693	4,355,464	5,342,041	4,847,894	2,403,000	2,559,000	2,700,000	2,814,000	3,434,000	3,125,000		
Australia ...	1,500	2,977	11,692	24,000	10,000	6,229	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.		
Fiji ...	2,599	1,533	1,503	1,999	1,745	1,501	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.		
New Zealand (b) ...	...	...	...	...	...	...	...	...	...	...	...	...
TOTAL ...	753,125,000	745,847,000	757,201,000	764,301,000	67,308,000	73,094,000	...	...	...	...	...	...
OTHER COUNTRIES														
Albania ...	n.d.	88,000	(d) 160,000	(d) 175,000	(d) 225,000	(d) 245,000	1,075,000	1,053,000	1,045,000	1,830,000	1,136,000	1,145,000		
Austria ...	3,440,511	3,356,519	3,328,928	3,485,650	3,634,379	3,692,152	79,100	53,000	40,000	55,000	40,000	28,000		
Belgium ...	135,000	122,000	140,000	158,500	113,400	179,100	167,000	180,000	227,000	250,000	255,000	380,000		
Bulgaria ...	2,766,000	2,888,000	3,070,000	405,000	411,000	618,000	830,000	830,000	880,000	920,000	970,000	1,030,000		
Czechoslovakia ...	206,470	212,000	228,000	269,000	280,000	321,000	330,000	338,000	346,000	348,000	370,000	380,000		
Finland (c) ...	56,872,817	58,553,462	59,975,714	65,906,692	65,554,359	65,274,000	17,367,000	17,725,000	18,077,000	19,768,000	19,492,000	19,410,000		
Germany— Federal Republic ...	18,031,083	17,701,007	17,777,478	18,570,614	18,568,486	16,379,718	4,781,000	4,670,000	4,712,000	4,919,000	4,932,000	4,399,000		
Eastern ...	1,455,000	1,482,000	1,574,000	1,616,000	1,617,000	1,616,000	470,000	480,000	470,000	480,000	485,000	485,000		
Greece ...	539,138	528,044	553,371	592,496	287,182	295,000	276,000	148,000	79,000	147,000	147,000	150,000		
Hungary ...	273,000	365,229	432,085	507,932	595,000	670,000	85,000	158,000	134,000	157,000	184,000	208,000		
Italy ...	1,577,711	1,280,479	1,217,465	1,241,482	1,215,955	1,132,875	790,000	640,000	610,000	620,000	610,000	570,000		
Luxembourg ...	7,719,500	6,553,160	6,408,000	6,867,107	7,240,152	9,004,974	2,090,000	1,961,000	1,817,000	1,965,000	2,000,000	1,741,000		
Norway ...	1,522,976	1,575,604	1,521,612	1,621,612	1,621,283	1,608,913	983,000	1,001,000	976,000	1,039,000	1,040,000	1,218,000		
Sweden ...	1,964,600	2,138,800	1,962,000	2,148,000	2,348,000	2,596,000	670,000	730,000	670,000	730,000	800,000	820,000		
Poland ...	281,859	228,466	241,350	297,000	245,000	259,000	140,924	129,572	129,572	149,000	170,000	129,000		
Portugal ...	634,314	731,742	1,046,937	1,437,015	1,709,659	1,714,107	330,000	330,000	470,000	550,000	770,000	770,000		
Roumania ...	5,155,739	4,953,969	4,536,400	5,546,476	5,967,595	5,752,000	2,474,000	2,427,000	2,248,000	2,753,000	3,000,000	2,700,000		
Spain ...	19,608,904	18,022,913	18,061,046	18,213,054	23,178,000	21,512,000	11,564,000	10,857,000	11,011,000	12,730,000	13,900,000	12,900,000		
Switzerland (d) ...	114,000	77,000	95,000	123,000	85,000	103,000	50,000	50,000	20,000	50,000	30,000	40,000		
U.S.S.R. ...	82,838,000	87,413,000	92,899,000	104,858,000	115,775,000	126,079,000	49,700,000	52,400,000	55,700,000	62,900,000	69,500,000	75,600,000		

* For detailed figures see page 153.

- (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) West Pakistan.

PRODUCTION OF IRON ORE (cont.)

Long tons

Producing Country	ORE						Estimated Iron Content					
	1957	1958	1959	1960	1961	1962	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES												
Yugoslavia	1,846,485	1,965,000	2,062,000	2,165,000	2,150,000	2,155,000	830,000	880,000	930,000	970,000	970,000	970,000
Algeria	2,746,401	2,297,938	1,896,908	3,384,527	2,821,943	2,029,000	1,470,000	1,236,000	1,037,000	1,805,000	1,524,000	1,092,000
Angola	103,932	282,664	343,470	3,648,047	799,311	741,710	67,000	184,000	223,000	420,000	520,000	480,000
Congo Republic (e)	28,092	3,339	—	(f) 245,000	415,000	453,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Egypt	250,000	175,000	242,000	764,000	533,000	689,000	536,000	204,000	168,000	382,000	267,000	345,000
Guinea	1,071,900	408,239	3,336,915	2,915,686	2,797,829	n.a.	1,447,000	1,383,000	1,812,000	1,898,000	1,898,000	n.a.
Liberia (b)	2,128,650	2,034,501	2,664,960	2,915,686	295,000	984,000	—	—	—	194,000	646,000	646,000
Mauritania	—	—	—	—	—	—	—	—	—	—	—	—
Morocco	1,845,217	1,514,385	1,245,043	1,522,116	1,438,829	1,130,709	1,040,000	800,000	620,000	780,000	815,000	664,000
South Africa (f)	2,047,413	2,177,422	2,845,562	3,022,386	4,108,125	4,539,476	1,295,000	1,310,000	1,710,000	1,810,000	2,460,000	2,720,000
South West Africa	339	6,616	—	2,500	4,800	4,400	—	—	—	—	—	—
Sudan	1,156,000	1,085,751	966,148	1,017,069	836,000	749,000	640,000	592,000	527,000	554,000	450,000	400,000
Tunisia	195,365	14,699	—	15,000	n.a.	n.a.	119,000	20,000	—	80,000	n.a.	n.a.
Dominican Republic	179,987	29,646	—	120,806	(g) 5,000	2,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Guatemala	4,000	5,000	(g) 4,000	924,000	1,190,000	n.a.	559,619	572,301	n.a.	513,122	676,150	1,074,000
Mexico	(g) 935,000	(g) 880,000	(g) 880,000	89,290,000	71,425,000	71,959,000	54,000,000	r36,000,000	r32,000,000	r48,000,000	39,000,000	39,000,000
United States (c)	106,698,000	468,095,000	60,549,000	89,290,000	136,424	n.a.	33,000	32,000	54,000	79,000	68,000	n.a.
Argentina	65,997	64,618	108,000	157,000	9,627,185	10,607,266	3,370,000	3,570,000	6,140,000	6,440,000	6,740,000	7,430,000
Brazil	4,898,090	5,102,820	8,766,864	9,197,524	6,879,064	7,964,000	1,923,020	2,324,223	2,889,826	3,744,203	4,353,287	5,040,000
Chile	3,032,635	3,699,450	4,575,623	5,945,899	6,879,064	6,879,064	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Colombia	583,763	552,993	107,926	645,000	628,000	670,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Peru	3,522,765	3,532,108	3,519,000	6,879,486	8,598,746	5,854,981	2,114,000	1,985,000	r 2,111,000	3,885,000	4,648,000	3,391,000
Venezuela	15,135,068	15,239,986	16,929,607	19,182,551	14,335,395	13,056,364	9,686,000	9,754,000	10,835,000	12,277,000	9,175,000	8,356,000
Burma (e)	4,155	4,363	3,692	15,670	n.a.	9,017	n.a.	n.a.	n.a.	n.a.	n.a.	5,000
China (e)	16,000,000	28,000,000	45,000,000	55,000,000	45,000,000	35,000,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Iran (e)	(b) 12,239	146,258	57,330	56,700	41,000	10,000	n.a.	70,000	30,000	30,000	20,000	5,000
Japan (d)	2,203,520	2,056,393	2,507,964	2,808,683	2,825,554	2,545,935	1,201,000	1,128,000	1,379,000	1,549,000	1,569,000	1,419,000
Korea (South)	182,484	256,902	277,211	385,900	496,800	463,300	93,100	131,000	141,000	197,000	253,000	256,000
Korea (North)	1,530,000	2,660,000	2,660,000	3,059,000	3,400,000	f 3,900,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Lebanon	41,586	23,000	3,000	8,000	—	—	—	—	—	—	—	—
Philippine Republic	1,325,099	1,081,379	1,210,764	1,120,785	1,152,061	f 1,365,054	19,000	11,000	1,000	4,000	1,000	1,000
Thailand	8,833	14,517	5,978	11,294	54,912	44,592	769,000	627,000	702,000	650,000	668,000	792,000
Turkey	1,145,812	935,890	859,103	722,988	745,671	760,698	5,800	9,600	4,000	7,000	34,000	28,000
New Caledonia...	220,388	290,449	282,400	271,700	273,000	298,300	121,000	160,000	155,000	149,000	146,000	164,000
TOTAL	r376,000,000	r352,000,000	r375,000,000	r450,000,000	437,000,000	432,000,000	—	—	—	—	—	—
WORLD'S TOTAL	429,000,000	398,000,000	432,000,000	r514,000,000	504,000,000	505,000,000	—	—	—	—	—	—

Iron ore is also produced in North Vietnam.
 (a) Estimated. (b) Exports. (c) Usable ore.
 (d) Including iron sand as follows (long tons): 1957—1,067,084; 1958—898,910; 1959—1,335,650;
 1960—1,539,340; 1961—1,685,131; 1962—1,419,738.
 (e) Used mainly or entirely for purposes other than iron production.
 (f) United States Bureau of Mines' estimate.
 (g) Years ended March 20 following that stated.
 (h) Including 13,000 tons of iron oxide pigment material.
 (i) Including by-product magnetite as follows (long tons): 1960—263; 1961—209,712; 1962—276,547.

DETAILS OF PRODUCTION OF IRON ORE IN CERTAIN COUNTRIES

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Hematite	446,700	453,100	447,900	434,900	414,000	378,200
Jurassic ironstones—						
Lower lias	4,905,700	4,691,000	4,764,000	5,411,600	5,547,800	5,516,000
Middle lias	3,189,600	2,628,300	2,137,900	2,551,100	2,061,000	1,507,700
Inferior oolite ..	8,360,100	6,840,000	7,519,700	8,656,500	8,495,200	7,875,200
Sierra Leone—						
Red ore	306,320	298,256	95,312	—	—	—
Concentrates	1,017,680	1,001,093	1,326,221	1,393,572	1,651,607	1,820,927
OTHER COUNTRIES						
France—						
Phosphoric	52,984,995	55,027,947	56,331,078	61,734,641	61,415,340	61,436,000
Medium phosphoric ..	3,592,075	3,180,114	3,301,552	3,804,362	3,845,260	3,606,000
Non-phosphoric	295,747	325,401	343,084	367,689	293,759	230,000
Italy—						
Iron ore	1,555,815	1,272,010	1,217,465	1,241,482	1,215,995	1,132,875
Manganiferous iron ore	21,896	8,469	—	—	—	—
Luxemburg—						
Siliceous iron ore ..	2,823,121	2,934,770	2,785,000	3,218,654	3,361,895	3,081,546
Calcareous iron ore ..	4,442,424	3,292,407	3,259,000	3,333,523	3,584,754	2,883,330
Ferruginous limestone..	453,755	305,983	362,000	314,930	393,503	439,528
Portugal—						
Hematite	185,493	133,018	150,227	189,000	105,000	69,000
Magnetite	96,366	95,448	87,678	108,000	125,000	160,000
Limonite	—	—	3,445	—	2,000	—
Manganiferous iron ore	—	—	—	—	13,000	29,000
Sweden—						
Manganiferous iron ore	46,000	61,000	68,000	92,000	<i>n.a.</i>	<i>n.a.</i>
Other iron ore	19,563,000	17,962,000	17,993,000	21,255,000	<i>n.a.</i>	<i>n.a.</i>
By phosphorus content (a)						
Under 0.006%	1,002,770	867,596	759,414	1,334,918	<i>n.a.</i>	<i>n.a.</i>
0.006% to under						
0.04%	2,656,578	2,408,765	2,007,354	2,739,281	<i>n.a.</i>	<i>n.a.</i>
0.04% to under 0.1% ..	362,971	353,240	494,494	768,128	<i>n.a.</i>	<i>n.a.</i>
0.1% to under 0.7% ..	7,214,504	7,689,223	5,901,942	6,795,149	<i>n.a.</i>	<i>n.a.</i>
0.7% to under 1% ..	1,213,508	—	1,157,401	1,392,311	<i>n.a.</i>	<i>n.a.</i>
1% and over	7,158,573	6,704,089	7,740,441	8,317,267	<i>n.a.</i>	<i>n.a.</i>
United States—						
Ore containing less than 5% Mn—						
Hematite (b)	86,691,000	50,931,000	44,236,000	68,147,000	50,883,000	46,863,000
Magnetite (b)	15,397,000	12,183,000	12,867,000	18,205,000	18,295,000	20,788,000
Limonite	3,250,000	3,843,000	2,381,000	1,641,000	1,473,000	3,599,000
Pyrite cinder and sinter	810,379	739,000	791,000	791,000	678,000	579,000
Ore containing 5 to under 10% Mn	549,129	386,473	273,541	506,551	95,855	129,979

(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.

EXPORTS OF IRON ORE
(including Manganiferous Iron Ore)

Long tons

Exporting Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom ..	758	708	974	563	555	364
Rhodesia and Nyasaland ..	6,250	—	—	649	14,506	118,557
Sierra Leone	1,444,542	1,421,563	1,503,275	1,540,445	1,757,853	1,983,025
Canada	17,972,769	12,391,314	18,552,487	16,942,140	14,868,166	21,645,758
Hong Kong	103,876	108,492	124,152	122,472	127,390	118,632
India	2,215,838	1,866,342	2,471,454	(b)3,140,124	(b)3,313,077	(b)3,737,436
Goa	2,678,408	2,466,767	3,627,863	5,562,820	6,425,000	5,195,255
Malaya	2,919,739	2,591,374	3,747,709	5,500,173	6,425,552	6,441,107
Australia (e)—						
Burnt pyrites	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	508,546	171,661
Fiji	—	—	6,925	21,994	8,906	7,339
Irish Republic—						
Burnt pyrites	28,583	25,809	17,003	30,434	17,366	12,576
OTHER COUNTRIES						
Austria	48,995	48,245	48,698	19,704	9,862	30
Belgium-Luxemburg E.U.—						
Iron ore	504,048	109,713	121,645	126,649	186,897	232,968
Burnt pyrites	177,516	149,709	220,824	311,009	233,943	199,509
Denmark—						
Bog ore (a)	120,176	99,840	77,395	63,196	56,022	67,689
Burnt pyrites	96,780	98,753	96,650	96,835	94,727	93,310
Finland—						
Iron ore	213,499	206,436	210,643	282,755	219,331	171,626
Burnt pyrites	155,761	95,293	121,055	120,821	204,172	169,218
France—						
Iron ore	14,085,265	15,041,047	19,697,439	26,726,549	25,446,172	25,277,522
Burnt pyrites	333,830	281,161	360,063	497,461	395,713	355,744
Germany (Federal)—						
Iron ore	(d) 364,825	(d) 325,839	(d) 289,904	(d) 239,774	253,621	277,833
Burnt pyrites	11,187	1,011	9,028	17,661	4,968	4,436
Greece—						
Iron ore	404,164	267,174	159,453	301,364	270,466	243,811
Burnt pyrites	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	39,238	41,653	24,357
Italy—						
Iron ore	69,010	12,988	2,428	7,366	25,813	238
Burnt pyrites	440,415	434,799	436,371	706,707	664,308	602,502
Netherlands—						
Iron ore	6,629	390	425	7,811	9,366	11,070
Burnt iron pyrites	322,755	183,521	195,706	435,932	225,388	120,076
Norway—						
Iron ore	1,223,611	1,140,922	924,823	1,173,143	1,119,787	1,248,534
Burnt pyrites	79,869	63,405	76,254	115,829	70,550	78,067
Portugal—						
Iron ore	248,398	185,158	189,125	234,152	93,540	97,937
Burnt pyrites	190,660	130,628	230,658	254,946	102,675	28,909
Spain	3,414,038	2,122,403	1,769,293	(c)3,123,329	(c)2,822,961	(c)1,873,512
Sweden—						
Iron ore	17,191,000	14,576,000	15,224,177	19,500,385	19,930,000	19,090,000
Burnt pyrites	190,524	123,212	146,345	168,140	178,000	197,000
Switzerland	101,384	62,948	48,760	(c) 120,867	(c) 60,314	(c) 74,253
U.S.S.R.	10,602,500	11,730,800	13,233,600	14,942,200	16,025,800	18,636,000
Yugoslavia—						
Iron ore	69,145	156,962	17,779	88,932	121,753	100,334
Burnt pyrites	8,690	49,713	19,840	—	—	—

(a) Used for purposes other than iron making.

(e) Including burnt pyrites.

(b) Years ended March 31 following that stated.

(d) Including ferruginous manganese ore.

(e) Years ended June 30th of that stated.

EXPORTS OF IRON ORE (cont.)

Long tons

Exporting Country	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Algeria—						
Iron ore	2,701,907	2,286,737	1,991,343	3,517,342	2,736,684	2,097,344
Burnt pyrites	8,710	5,487	2,000	10,338	<i>n.a.</i>	<i>n.a.</i>
Angola	91,184	219,460	322,055	537,180	r 486,678	438,944
Egypt	44,983	10,574	11,682	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Guinea	1,003,342	328,549	186,031	715,413	509,959	<i>n.a.</i>
Liberia	2,128,650	2,034,501	2,664,960	2,915,686	2,791,829	<i>n.a.</i>
Morocco—						
Iron ore	1,908,281	1,278,579	695,005	798,129	1,879,282	1,130,303
Burnt pyrites	4,188	12,255	9,698	1,087	17,423	23,241
South Africa	11,637	7,706	166,208	466,911	558,135	732,216
Tunisia	1,156,552	992,661	820,175	1,024,366	885,158	702,301
Cuba	103,398	4,716	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Dominican Republic	147,437	20,678	50,424	99,546	12	<i>n.a.</i>
Mexico	235,359	220,050	114,120	153,355	120,829	144,733
United States	5,002,153	3,573,000	2,967,000	r 5,273,000	4,916,173	5,897,667
Brazil	3,494,006	2,786,412	3,925,454	5,157,051	6,182,424	7,529,034
Chile	3,025,456	3,580,523	4,193,300	r 5,109,168	6,099,440	<i>n.a.</i>
Peru	3,619,109	2,470,195	3,267,400	5,088,840	5,484,569	5,067,878
Venezuela	15,331,377	15,325,626	17,104,257	19,014,669	14,334,747	13,075,372
Iran (a)	12,239	19,756	6,786	32,735	21,208	<i>n.a.</i>
Korea (South)	128,273	185,668	198,217	230,388	436,809	358,245
Lebanon	41,585	21,406	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Philippine Republic—						
Iron ore	1,128,193	1,039,674	1,258,347	1,217,550	1,289,210	1,313,820
Burnt pyrites	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	7,578	11,220
Turkey	505,342	262,212	131,262	301,013	250,210	168,930
New Caledonia	193,311	306,537	283,649	272,834	253,322	289,779

(a) Years ended March 20 following that stated.

IMPORTS OF IRON ORE
(including Manganiferous Iron Ore)

Long tons

Importing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom (b) ..	15,912,253	12,898,609	13,349,960	17,968,495	14,965,971	12,897,165
Canada	4,052,704	3,047,237	2,500,894	4,514,596	4,132,280	4,604,779
India	1,475	645	839	(d) 109	(d) 1,218	(d) 270
Australia (a) ..	108,992	268,187	279,226	249,150	277,299	273,481
Irish Republic ..	855	1,697	—	14	20	15
OTHER COUNTRIES						
Austria—						
Iron ore	1,115,344	1,027,342	649,323	1,586,422	1,276,474	1,028,169
Burnt pyrites ..	356,363	391,469	330,520	459,295	423,255	371,504
Belgium-Luxemburg						
E.U.—						
Iron ore	15,762,572	16,546,142	17,836,735	20,337,109	20,214,909	20,810,570
Burnt pyrites ..	61,857	58,981	179,122	87,853	111,275	58,059
Czechoslovakia ..	4,845,000	5,082,000	6,284,000	7,097,000	7,844,000	8,188,000
Denmark	(b) 26,537	(b) 5,992	2,736	2,539	3,411	1,422
Finland	160,371	122,199	124,572	159,474	142,947	441,585
France—						
Iron ore	1,034,583	987,116	939,109	1,482,127	1,671,789	1,866,118
Burnt pyrites ..	7,571	1,304	2,594	13,876	14,504	18,668
Germany (Federal)—						
Iron ore (e)	18,820,236	16,693,767	19,719,971	33,122,454	32,112,290	28,609,917
Burnt pyrites ..	2,052,970	1,581,871	1,668,245	2,952,623	2,441,821	1,834,503
Germany (East) (c)	802,399	895,500	1,002,400	1,170,800	1,078,000	1,240,500
Hungary	1,287,782	1,779,612	1,662,762	1,845,717	2,001,905	2,207,495
Italy	1,727,149	2,337,722	1,608,330	2,579,586	3,254,662	4,354,252
Netherlands	1,225,804	1,748,087	1,888,875	2,284,179	2,219,398	2,280,542
Norway	5,051	21,974	2,945	10,700	13,486	21,163
Poland	5,820,000	5,659,100	6,114,700	7,204,400	7,548,400	7,976,000
Roumania	n.a.	740,900	802,100	902,600	1,238,300	1,897,300
Spain	186,743	284,713	77,720	32,705	210,918	248,866
Sweden	16,342	408	3,412	3,752	4,000	3,000
Switzerland	60,918	45,828	45,148	(b) 8,840	(b) 7,738	(b) 1,309
Yugoslavia	85,237	48,090	123,794	127,203	379,735	347,565
United States—						
Iron ore	33,651,000	27,544,000	35,617,000	r34,578,000	25,804,749	33,431,077
Burnt pyrites ..	567	2,721	10,157	5,884	3,504	4,248
Argentina	n.a.	n.a.	181,877	436,786	312,389	506,912
Formosa	23,058	11,814	13,617	16,148	71,539	10,287
Japan—						
Iron ore	9,315,884	7,493,525	10,274,816	14,687,616	20,693,941	21,947,378
Burnt pyrites ..	1,181	—	21,036	110,968	209,897	143,461

(a) Years ended June 30 of that stated.

(d) Years ended March 31 following that stated.

(b) Including burnt pyrites.

(e) Figures for 1957—1960 include ferruginous manganese ore.

(c) Fe content.

PRODUCTION OF PIG-IRON AND FERRO-ALLOYS*

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom ..	14,282,600	12,974,500	12,582,500	15,762,900	14,747,100	13,692,100
Southern Rhodesia ..	71,100	75,700	70,600	84,800	216,300	n.a.
Canada	3,502,530	2,832,293	3,855,625	3,942,573	4,502,974	4,845,698
India	1,911,250	2,101,942	3,144,118	4,197,200	5,040,000	5,822,100
Australia (e) ..	2,208,140	2,279,282	2,506,514	2,881,951	3,159,393	3,433,021
TOTAL	21,975,600	20,263,700	22,159,400	26,869,400	27,666,000	28,000,000
OTHER COUNTRIES						
Austria	r 1,930,700	r 1,791,300	r 1,811,000	r 2,202,400	2,232,300	2,088,000
Belgium	5,492,532	5,431,759	5,871,000	6,449,236	6,351,962	6,641,000
Bulgaria	54,859	89,419	174,125	188,744	203,000	216,000
Czechoslovakia ..	3,507,000	3,714,000	4,177,000	4,621,000	4,892,000	5,095,000
Finland	126,495	99,449	94,690	102,931	145,387	336,126
France (a)	11,726,532	11,777,785	12,275,033	13,921,857	14,336,328	13,738,471
Germany—						
Federal Republic ..	r18,178,000	r16,490,000	r18,222,000	r25,481,000	25,174,000	23,977,000
Eastern	1,636,600	1,746,800	1,868,400	1,963,200	1,998,800	2,042,400
Hungary (b)	r 810,161	r 1,065,143	1,086,550	r 1,226,648	1,285,771	1,359,692
Italy	2,171,574	2,132,866	2,157,308	2,779,657	3,150,883	3,619,510
Luxemburg	3,314,744	3,233,467	3,357,000	3,725,552	3,773,177	3,540,045
Netherlands	689,500	898,800	1,121,400	1,324,300	1,433,300	1,546,500
Norway	r 556,585	513,963	612,649	r 708,452	744,704	711,716
Poland	3,624,000	3,803,100	4,305,000	4,491,000	4,695,000	5,227,000
Portugal	n.a.	16,262	35,260	40,424	120,382	221,455
Roumania	675,271	725,224	832,983	998,116	1,081,872	1,486,942
Saar	3,116,178	3,054,222	3,169,000	(c)	(c)	(c)
Spain	985,285	1,320,853	1,696,623	1,897,002	2,089,512	2,109,000
Sweden	1,518,950	1,391,723	1,479,426	r 1,606,006	1,867,300	1,786,000
Switzerland	45,000	33,000	40,000	50,000	50,000	50,000
U.S.S.R.	36,454,000	39,000,000	42,293,000	46,019,000	50,089,000	54,392,000
Yugoslavia	726,000	767,000	888,000	1,003,000	1,036,000	1,086,000
Egypt	(d) 12,000	(d) 40,000	116,000	146,000	(d) 98,000	(d) 98,000
South Africa	1,401,600	1,556,700	1,779,000	1,961,700	2,291,200	2,376,800
Mexico	422,217	487,745	621,258	764,989	942,679	977,032
United States	72,141,325	52,507,405	55,516,456	61,219,986	59,433,091	60,352,980
Argentina	33,000	28,000	35,000	177,267	390,211	390,000
Brazil	1,250,000	1,380,000	1,562,709	1,755,231	1,825,577	(d)1,470,000
Chile (b)	376,000	299,000	285,000	262,000	281,000	377,000
Colombia	140,196	146,412	124,436	164,447	186,000	143,000
Venezuela	—	—	—	—	—	121,000
China	5,850,000	13,470,000	20,200,000	27,100,000	d20,000,000	d17,700,000
Formosa	10,935	6,427	8,280	n.a.	n.a.	n.a.
Japan	7,075,024	7,635,885	9,790,986	r12,234,395	16,191,700	18,197,975
Korea (North) ..	270,000	310,000	680,000	840,000	915,000	1,196,000
Thailand	4,000	5,000	7,000	6,000	5,000	5,000
Turkey	213,080	226,493	232,448	243,000	184,500	149,000
TOTAL	r186,500,000	r177,200,000	r198,500,000	r227,700,000	229,000,000	235,000,000
WORLD'S TOTAL ..	r208,500,000	r197,500,000	r220,700,000	r254,600,000	257,000,000	263,000,000

* For details see page 158.

(a) Excluding electric furnace and aluminio-thermic ferro-alloys. For these see page 159.

(b) Excluding ferro-alloys.

(c) Included with Germany (Federal).

(d) United States Bureau of Mines' estimate.

(e) Including recovery from scrap and excluding ferro-alloys. For ferro-alloys see page 158.

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

Long tons

Producing Country	1957	1958	1959	1960	1961	1962	
COMMONWEALTH COUNTRIES							
United Kingdom—							
Hematite	1,570,500	1,237,100	1,021,000	1,187,100	1,136,800	875,700	
Basic	11,265,300	10,314,800	10,284,700	13,072,100	12,255,700	11,568,300	
Foundry	1,258,700	1,228,500	1,089,300	1,293,100	} 1,196,200	1,054,000	
Forge	29,300	19,500	39,300	5,200			
Direct castings	1,000	900	500	100			
Blast furnace ferro-alloys—							
Spiegeleisen	13,200	27,400	25,000	25,600	29,600	41,100	
Ferro-manganese	144,600	146,300	122,700	179,700	128,800	153,000	
Canada—							
Basic	2,865,546	2,380,094	3,172,255	3,202,271	3,736,346	4,070,153	
Foundry	93,598	39,067	204,324	248,143	328,675	225,046	
Malleable	360,812	312,606	358,041	369,609	332,653	427,062	
Ferro-alloys (a)	182,574	100,526	121,005	122,550	105,300	123,437	
India—							
Basic	1,494,751	1,579,659	2,265,491	2,973,314	3,527,000	} 5,668,500	
Foundry	294,511	423,245	767,604	1,015,660	1,010,000		
Other pig-iron	—	—	—	85,583	374,000		
Direct castings	112,694	72,527	44,026	34,976	40,000	40,300	
Ferro-alloys	9,294	26,511	66,997	87,847	93,000	113,300	
Australia—							
Pig-iron	2,208,140	2,279,282	2,506,514	2,881,951	3,159,393	3,433,021	
Ferro-manganese (b)	18,075	23,136	17,511	6,440	—	17,000	
Ferro-silicon (b)	944	1,352	1,663	7,200	8,144	7,438	
Ferro-nickel (b)	992	384	—	646	1,426	—	
Ferro-silico-manganese (b)	—	—	162	—	—	—	
Silico-manganese (b)	—	—	—	1,698	2,409	5,039	
Ferro-chrome (b)	301	339	610	597	705	571	
OTHER COUNTRIES							
Austria—							
Basic	1,845,641	1,683,573	1,757,885	2,184,202	2,142,834	2,061,747	
Hematite	53,925	80,567	25,924	—	65,568	16,057	
Other	29,759	25,173	23,744	12,297	18,172	6,417	
Electric furnace ferro-alloys							
	1,400	2,000	3,400	5,900	5,700	3,800	
Belgium—							
Basic	5,347,330	5,306,517	} 5,756,000	{ 6,301,675	6,207,543	} 6,534,000	
Forge	9,029	16,100			33,590		13,008
Foundry	120,340	90,025			93,000		110,458
Ferro-alloys	15,833	19,117	22,000	20,238	20,953	15,000	
Czechoslovakia—							
Basic	3,148,000	3,359,000	3,701,000	4,049,000	4,283,000	4,522,000	
Foundry	313,000	313,000	424,000	507,000	539,000	498,000	
Ferro-alloys	46,000	42,000	52,000	65,000	70,000	75,000	
France—							
Phosphoric (over 1.4% P)—							
Basic	9,775,737	9,981,745	10,711,249	12,086,358	12,342,936	11,946,528	
Foundry	266,258	219,144	184,430	181,221	170,300	146,726	
Semi-phosphoric (from 0.5% to 1.4% P)—							
Foundry	399,132	354,483	202,288	237,002	286,204	294,265	
Open hearth, basic	2,482	—	—	—	66,726	—	
Hematite (less than 0.5% P)—							
Foundry	286,615	276,655	276,349	327,024	360,900	366,023	
Open hearth and Bessemer	308,063	294,528	269,880	400,228	352,526	265,488	

(a) Factory shipments.

(b) Years ended November 30 of year stated.

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

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
France <i>(cont.)</i>						
Blast furnace ferro-alloys—						
Spiegeleisen	152,440	131,400	132,636	136,372	130,802	135,723
Ferro-manganese	248,997	219,215	212,283	243,877	270,148	267,393
Other pig-iron	286,808	300,615	285,918	309,775	355,786	316,325
Electric furnace and aluminio-thermic ferro-alloys—						
Ferro-silicon (50% Si)	81,008	95,734	85,254	104,058	126,468	100,451
Silico-spiegeleisen and silico-manganese	13,211	12,205	13,014	14,041	15,409	12,278
Silico-aluminium and silico-manganese-aluminium	1,024	1,647	1,295	1,172	1,020	1,506
Ferro-manganese	17,022	15,260	20,370	27,429	25,836	n.a.
Ferro-chrome	37,635	36,161	52,369	58,980	66,333	56,020
Ferro-tungsten (W content)	592	769	779	846	1,112	869
Ferro-molybdenum (Mo content)	1,318	1,452	1,091	2,036	2,052	1,594
Ferro-vanadium (V content)	234	222	219	477	443	275
Titanium alloys	3,179	3,000	3,286	4,302	3,261	n.a.
Germany (Federal)—						
Hematite and malleable Basic	864,000	784,000	648,000	933,000	1,001,000	950,000
Foundry	11,450,000	10,716,000	11,954,000	16,454,000	16,000,000	14,941,000
Stahleisen	739,000	564,000	522,000	696,000	678,000	657,000
Spiegeleisen (blast-furnace)	4,373,000	3,817,000	4,465,000	6,667,000	6,662,000	6,777,000
Ferro-manganese (blast furnace)	324,000	247,000	233,000	274,000	267,000	271,000
Siegerland special Other pig-iron	318,000	268,000	281,000	308,000	420,000	271,000
Ferro-silicon (blast-furnace)						
Electric furnace and aluminio-thermic ferro-alloys	110,300	94,000	118,600	148,900	146,100	110,000
Germany (East)—						
Foundry	332,600	409,100	476,100	479,200	489,500	530,000
Open hearth	889,400	929,000	939,300	1,024,900	1,054,300	1,058,800
Basic Bessemer	394,800	385,100	419,400	437,000	421,900	432,600
Spiegeleisen	19,800	23,600	33,600	22,100	33,100	20,500
Other	—	—	—	—	—	500
Italy—						
Pig-iron	2,039,187	2,027,229	2,064,570	2,640,469	3,008,079	3,499,821
Spiegeleisen	15,903	21,797	3,811	6,500	6,838	4,333
Ferro-manganese	50,626	26,468	22,556	29,971	32,658	26,091
Ferro-silicon	39,946	29,950	22,501	45,335	50,994	43,212
Silico-manganese	9,644	13,224	21,448	24,277	25,827	24,789
Ferro-chrome	2,737	2,704	13,773	20,218	16,374	10,016
Ferro-titanium	185	88	123	173	151	162
Ferro-tungsten	87	35	52	96	87	34
Ferro-vanadium	79	46	36	92	83	49
Ferro-molybdenum	421	398	624	1,048	1,072	942
Silico-aluminium	641	592	596	636	1,090	619
Silicon pig iron (10-12% Si)	5,092	3,934	3,018	4,573	2,522	2,217
Silico-speiegeleisen	3,896	3,089	249	1,538	1,305	1,326
Silico-chrome	—	—	90	—	312	1,117
Calcium silicide	3,007	3,196	3,765	4,605	2,875	4,081
Ferro-phosphorus	123	116	96	126	616	700

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

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Luxembourg—						
Basic	3,314,744	3,233,467	3,357,000	3,725,552	3,773,177	3,540,045
Norway—						
Pig-iron	241,197	255,420	332,429	368,377	372,065	389,572
Ferro-silicon	148,945	122,164	124,940	170,148	190,279	168,320
Ferro-manganese	82,199	44,026	57,257	47,764	52,107	54,423
Ferro-silico-manganese	49,445	59,538	58,807	76,650	88,994	77,149
Ferro-chrome and silico-chrome	31,798	18,135	37,522	44,844	40,210	21,022
Other ferro-alloys	3,001	14,680	1,694	r 669	1,049	1,230
Saar—						
Basic	2,848,770	2,826,084				
Other pig-iron and ferro-alloys	267,408	228,138	3,169,000	(a)	(a)	(a)
Spain—						
Pig-iron	947,229	1,281,474	1,645,956	1,855,747	2,043,997	n.a.
Ferro-manganese	23,628	24,216	29,976	25,686	21,937	n.a.
Ferro-silicon	13,746	14,025	19,555	14,697	22,185	n.a.
Ferro-tungsten	63	85	87	53	95	n.a.
Ferro-chrome	291	673	725	405	805	n.a.
Ferro-phosphorus	328	380	324	414	493	n.a.
Sweden—						
Pig-iron	1,423,228	1,303,175	1,379,884	r 1,487,008	1,729,700	n.a.
Ferro-manganese	16,827	17,414	15,869	23,794	23,200	n.a.
Ferro-silicon	20,987	14,616	20,468	23,355	31,200	n.a.
Ferro-silico-manganese	12,964	11,133	10,741	11,609	11,800	n.a.
Ferro-chrome	30,597	26,232	36,530	38,675	50,900	n.a.
Ferro-titanium	130	370	128	—	—	n.a.
Ferro-tungsten	349	203	402	393	600	n.a.
Ferro-molybdenum	1,610	1,187	1,132	r 1,744	1,800	n.a.
Ferro-vanadium	102	129	200	338	400	n.a.
Metallic silicon	3,812	5,832	2,257	5,377	4,200	n.a.
Silico-chrome	7,550	10,756	11,184	12,554	12,400	n.a.
Other ferro-alloys	794	676	631	r 1,159	1,100	n.a.
Yugoslavia—						
Pig-iron	703,000	736,000	849,000	957,000	981,000	1,033,000
Ferro-alloys	22,707	31,337	39,446	46,083	54,772	52,626
South Africa—						
Pig-iron	1,337,900	1,488,800	1,676,200	1,792,000	2,099,900	2,181,700
Ferro-alloys	63,700	67,900	102,800	169,700	191,300	195,100
United States—						
Basic	58,372,986	43,852,362	46,530,622	52,018,846	51,919,214	52,505,467
Bessemer	5,664,380	3,214,172	2,728,371	3,038,928	2,322,452	2,520,245
Low phosphorus	517,869	285,963	334,356	345,768	157,212	156,012
Foundry	2,035,050	1,433,954	1,679,668	1,310,141	1,216,263	1,275,548
Malleable	3,088,688	2,057,950	2,221,296	2,386,496	1,877,432	1,923,176
Other pig-iron	299,043	189,266	250,371	257,543	213,397	227,431
Ferro-manganese and spiegeleisen	929,098	605,710	606,815	784,054	699,329	716,067
Ferro-silicon and silvery pig-iron	643,874	400,264	575,649	611,731	476,987	487,405
Other ferro-alloys	590,337	467,764	589,308	466,479	550,805	541,629
Brazil—						
Pig-iron	1,231,889	1,363,677	1,534,954	1,722,212	1,791,954	n.a.
Spiegeleisen	n.a.	n.a.	—	137	273	n.a.
Ferro-chrome	n.a.	n.a.	988	1,699	968	n.a.
Ferro-manganese	n.a.	n.a.	14,580	18,827	18,196	n.a.
Ferro-nickel	n.a.	n.a.	326	325	335	n.a.
Ferro-silicon	n.a.	n.a.	7,033	7,273	7,373	n.a.
Ferro-silico-manganese	n.a.	n.a.	4,828	4,758	6,478	n.a.

(a) Included with Germany (Federal).

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

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Japan—						
Pig-iron	6,756,755	7,322,779	9,359,418	r11,786,361	15,570,900	17,688,051
Spiegeleisen	6,022	5,921	3,758	8,059	3,100	3,583
Ferro-chrome	37,380	24,718	68,258	79,150	98,514	83,193
Ferro-manganese	126,765	138,894	155,348	153,145	182,601	163,962
Ferro-molybdenum	1,714	861	2,026	1,758	1,954	497
Ferro-phosphorus	1,998	1,948	1,285	2,126	2,164	1,130
Ferro-silicon	51,653	39,334	64,649	73,876	96,570	74,165
Ferro-titanium	82	65	92	223	449	450
Ferro-tungsten	1,077	280	570	r 1,177	1,677	869
Ferro-nickel	33,201	11,816	32,879	52,492	61,658	35,404
Ferro-vanadium	245	177	419	845	1,270	598
Silico-manganese	46,255	64,843	57,001	56,782	94,335	88,056
Silico-chrome	1,691	13,815	30,816	43,926	58,632	43,206
Calcium-silicon	4,817	3,217	5,230	7,753	9,222	7,361
Other ferro-alloys	5,369	7,217	9,237	r 10,648	8,608	7,450

PRODUCTION OF STEEL INGOTS AND CASTINGS*

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom ..	21,699,100	19,565,700	20,186,400	24,305,000	22,086,100	20,491,000
Southern Rhodesia ..	65,493	70,300	45,300	(c) 84,400	(c) 90,800	n.a.
Canada	4,525,133	3,892,380	5,269,184	5,169,259	5,773,504	6,404,889
India	1,710,191	1,813,070	2,428,953	3,234,017	4,019,000	5,100,000
Pakistan	11,695	9,450	9,052	7,371	8,517	6,554
Australia (f) ..	3,015,569	3,133,081	3,395,261	3,687,183	3,872,682	4,161,564
TOTAL	31,027,200	28,484,000	31,334,200	r36,490,000	35,850,000	36,000,000
Irish Republic (g) ..	21,900	24,200	22,200	29,800	28,000	18,800
OTHER COUNTRIES						
Austria	2,469,245	2,355,364	2,472,409	3,112,578	3,052,367	2,923,119
Belgium	6,134,586	5,885,968	6,330,000	7,028,057	6,850,345	7,200,000
Bulgaria	156,658	207,249	226,315	249,457	335,000	415,000
Czechoslovakia ..	5,084,000	5,422,000	6,039,000	6,661,000	6,931,000	7,518,000
Denmark	253,700	250,300	287,300	312,100	317,800	361,000
Finland	205,402	185,434	232,358	253,392	276,548	308,197
France	13,873,371	14,384,937	14,978,149	17,007,694	17,292,546	16,968,015
Germany—						
Federal Republic ..	24,120,000	22,425,000	25,414,000	33,562,000	32,929,000	32,045,000
Eastern	2,848,800	2,994,900	3,156,700	3,284,300	3,390,000	3,564,800
Greece	(e) 74,000	112,000	89,000	(e) 125,000	(e) 130,000	(e) 150,000
Hungary	1,353,000	r 1,601,074	r 1,731,495	r 1,857,114	2,020,693	2,295,713
Italy	6,680,235	6,172,009	6,655,005	8,099,101	8,980,181	9,340,434
Luxemburg	3,437,522	3,325,456	3,605,000	4,019,192	4,047,827	3,946,610
Netherlands	1,166,500	1,414,800	1,643,400	1,911,800	1,939,500	2,053,300
Norway	344,018	365,562	419,672	r 482,532	491,003	480,076
Poland	5,220,000	5,574,000	6,062,000	6,575,000	7,120,000	7,563,000
Portugal	—	—	—	—	n.a.	164,679
Roumania	850,737	918,940	1,397,218	1,777,260	2,092,913	2,412,000
Saar	3,384,340	3,405,632	3,536,000	(d)	(d)	(d)
Spain	1,324,521	1,535,763	1,781,406	1,926,549	2,264,900	h 2,200,000
Sweden	r 2,467,405	r 2,384,732	r 2,809,972	r 3,167,345	3,501,000	3,553,000
Switzerland	230,000	240,000	246,000	271,000	292,000	313,000
U.S.S.R.	50,237,000	54,053,000	59,003,000	64,261,000	69,634,000	75,101,000
Yugoslavia	1,032,000	1,101,000	1,279,000	1,419,000	1,508,000	1,569,000
Egypt (e)	98,000	98,000	98,000	130,000	145,000	145,000
South Africa (a) ..	1,652,100	1,743,000	1,089,100	2,032,400	2,390,300	2,538,100
Mexico	1,032,891	1,097,000	1,306,782	1,515,222	1,648,000	1,656,000
United States (b) ..	100,638,390	76,120,433	83,434,046	88,644,286	87,512,940	87,792,666
Argentina (c)	218,000	241,000	210,853	272,669	434,513	491,000
Brazil	1,452,000	1,565,000	1,772,000	2,246,200	2,404,600	h 2,460,000
Chile (c)	381,000	343,000	408,243	414,896	357,140	487,000
Colombia	112,577	116,166	107,926	151,041	176,000	136,100
Peru	—	20,000	50,000	59,000	74,000	74,000
Venezuela	—	—	—	—	5,000	147,000
China	5,270,000	10,910,000	13,140,000	18,160,000	e13,000,000	e12,000,000
Formosa	87,000	105,000	156,000	196,000	195,000	179,000
Israel	n.a.	n.a.	23,000	40,000	61,000	79,000
Japan	12,371,638	11,926,604	16,365,957	21,788,740	27,821,909	27,111,000
Korea (North)	(e) 280,000	359,000	444,000	631,000	(e) 750,000	e 1,030,000
Korea (South)	17,859	20,422	39,237	50,528	45,913	71,049

* For details see page 164.

(a) Excluding steel castings for which the amounts produced for sale were 41,200 tons, 60,200 tons, 58,900 tons, 46,700 tons, 45,400 tons and 54,800 tons in 1957, 1958, 1959, 1960, 1961 and 1962 respectively.

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

(c) Ingots only.

(f) Including recovery from scrap.

(d) Included with Germany (Federal).

(g) Years ended June 30 of that stated.

(e) United States Bureau of Mines' estimate.

(h) Estimated.

PRODUCTION OF STEEL INGOTS AND CASTINGS

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Philippine Republic ..	56,000	65,000	(a) 62,000	(a) 62,000	(a) 70,000	n.a.
Thailand	5,000	5,000	6,000	7,000	8,000	7,000
Turkey	172,737	157,788	210,872	294,295	317,824	287,523
TOTAL	r256,800,000	r241,200,000	r268,300,000	r304,100,000	313,000,000	319,000,000
WORLD'S TOTAL ..	r287,800,000	r269,700,000	r299,700,000	r340,600,000	349,000,000	355,000,000

(a) United States Bureau of Mines' estimate.

DETAILS OF PRODUCTION OF STEEL INGOTS AND CASTINGS
IN CERTAIN COUNTRIES

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ingots and castings—						
Open hearth, acid ..	960,700	761,500	615,700	658,100	610,500	445,400
do. basic ..	18,075,200	16,385,100	16,708,300	19,874,700	17,773,400	16,407,200
Bessemer, acid ..	250,400	229,200	214,700	294,400	254,000	192,900
do. basic and L.D.	1,058,300	944,800	1,196,400	1,680,700	1,693,900	1,881,300
Ingots, electric ..	793,900	741,600	984,000	1,252,000	1,207,100	1,102,900
Castings, electric ..	417,300	384,200	364,400	433,500	440,900	377,700
All other ingots and castings ..	143,300	119,300	102,900	111,600	106,300	83,600
Southern Rhodesia—						
Ingots	64,063	68,800	43,800	84,400	90,800	n.a.
Castings	1,430	1,500	1,500	n.a.	n.a.	n.a.
Canada—						
Ingots—						
Open hearth, basic and oxygen ..	4,018,515	3,460,241	4,702,930	4,524,709	5,100,756	5,711,702
do. electric ..	384,529	345,225	475,066	558,121	574,384	583,693
Castings—						
Open hearth, basic ..	24,175	14,178	13,245	2,405	2,697	3,494
Bessemer	18	18	6	3	321	—
Electric	97,896	72,718	77,937	84,021	95,346	106,000
India—						
Ingots—						
Open hearth, basic ..	1,598,340	1,706,589	2,289,235	3,119,182	3,894,077	4,934,779
do. acid	—	—	16,910	—	—	—
Electric	63,582	60,005	76,208	72,035	69,339	75,362
Castings	48,269	46,476	46,600	42,800	56,000	n.a.
OTHER COUNTRIES						
Austria—						
Open hearth	950,181	893,149	854,145	974,170	890,047	800,888
Electric	333,078	315,591	346,052	393,580	372,502	321,532
L.D.	1,185,986	1,146,624	1,272,212	1,744,828	1,789,818	1,800,699
Belgium—						
Ingots, open hearth ..	622,398	564,324	580,000	599,137	529,767	500,000
do. Bessemer, basic ..	5,081,471	5,052,777	5,430,000	6,004,490	5,872,962	6,270,000
do. electric	351,941	202,999	246,000	363,898	377,914	351,000
Castings	78,776	65,868	78,000	60,532	69,702	n.a.
Czechoslovakia—						
Open hearth	4,200,000	4,488,000	5,060,000	5,612,000	5,781,000	6,266,000
Bessemer	238,000	244,000	238,000	243,000	231,000	226,000
Electric	647,000	690,000	741,000	806,000	919,000	1,026,000
Denmark—						
Ingots, open hearth ..	235,600	229,300	264,700	286,500	291,000	334,500
Castings do.	10,100	9,700	9,000	6,800	5,600	4,000
do. electric	8,000	11,300	13,600	18,800	21,200	22,500
Finland—						
Ingots	192,740	174,252	221,300	241,648	261,767	292,920
Castings	12,662	11,182	11,058	11,744	14,781	15,277
France—						
Ingots and castings—						
Bessemer, acid ..	110,684	135,606	107,281	100,128	110,423	99,836
do. basic	8,247,933	8,546,479	9,116,375	10,292,741	10,239,699	9,867,543
Open hearth, acid ..	—	—	—	—	—	—
do. basic	4,413,398	4,454,386	4,482,433	5,048,899	4,981,810	4,848,203
Crucible	2,882	1,976	1,621	2,185	2,453	2,500
Electric	1,098,474	1,246,490	1,270,439	1,470,602	1,541,573	1,502,105
Other	—	—	—	93,139	416,588	647,828
Of which—						
Ingots	13,566,878	14,038,992	14,665,394	16,706,319	16,938,838	16,603,902
Castings	306,493	345,945	312,755	301,375	353,708	364,113

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

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (Federal)—						
Ingots—						
Open hearth	12,435,000	11,326,000	12,342,000	15,674,000	15,052,000	14,693,000
Bessemer, basic	10,015,000	9,035,000	10,562,000	14,671,000	14,141,000	13,002,000
Electric	1,025,000	1,209,000	1,444,000	1,707,000	1,836,000	2,035,000
Other	54,000	338,000	538,000	849,000	1,182,000	1,657,000
Castings—						
Open hearth	185,000	134,000	128,000	158,000	160,000	117,000
Electric	302,000	299,000	332,000	433,000	492,000	496,000
Other	104,000	84,000	68,000	70,000	66,000	51,000
Germany (East)—						
Open hearth	2,265,900	2,366,700	2,499,300	2,578,800	2,665,200	2,816,400
Bessemer, basic	334,500	334,400	349,100	373,800	364,400	375,900
Electric	248,400	293,800	307,800	330,600	340,600	363,700
Other	—	—	500	1,100	19,800	8,800
Italy—						
Ingots	6,536,301	6,027,724	6,521,665	7,922,632	8,782,674	9,146,750
Castings	143,934	144,285	133,340	176,469	197,507	193,684
Luxemburg—						
Bessemer, basic	3,364,604	3,251,634	3,520,000	3,939,227	3,973,662	3,883,634
Electric	72,918	73,822	85,000	79,965	74,165	62,976
Norway—						
Ingots	326,413	345,739	401,022	460,752	468,344	456,552
Castings	17,605	19,823	18,650	21,780	22,659	23,524
Saar—						
Ingots—						
Open hearth	738,362	756,109	(d) 802,000	}	(a)	(a)
Bessemer, basic	2,592,721	2,601,152	(d) 2,682,000			
Electric	45,515	40,337	(d) 52,000			
Castings—						
Open hearth	5,206	5,588	(c)	}	(a)	(a)
Bessemer, acid	—	—	(c)			
Electric	2,536	2,446	(c)			
Spain—						
Open hearth and						
Bessemer	1,002,804	1,164,997	1,411,986	1,699,105	2,013,900	n.a.
Electric	321,717	370,766	369,420	227,444	251,000	n.a.
Sweden—						
Open hearth, acid	271,695	229,333	292,933	322,185	338,000	} 1,133,000
do. basic	535,984	526,319	624,271	r 749,166	864,000	
Bessemer, acid	37,439	28,360	35,465	33,497	26,000	—
do. basic	427,315	434,084	398,853	415,636	478,000	440,000
Electric	r 1,128,996	r 1,091,170	r 1,358,402	r 1,538,551	1,594,000	1,553,000
Other	65,976	75,466	r 100,048	r 108,310	201,000	427,000
Yugoslavia—						
Open hearth	970,000	1,027,000	1,178,000	1,301,000	1,371,000	1,412,000
Electric	61,900	74,200	100,800	118,400	136,800	157,300
South Africa—						
Ingots—						
Open hearth and						
Bessemer	1,472,000	1,535,500	1,591,800	1,755,300	2,112,300	2,234,900
Electric	180,100	207,500	217,300	277,100	278,000	303,200
Castings (b)	41,200	60,200	58,900	46,700	45,400	54,800

(a) Included with Germany (Federal).

(b) Produced for sale.

(c) Included with ingots.

(d) Including castings.

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

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
United States—						
Ingots and castings (a)—						
Open hearth, acid ..	562,546	337,147	396,414	360,329	351,584	338,468
do. basic ..	90,203,326	67,412,312	72,522,333	76,753,515	75,096,694	73,730,566
Bessemer	2,209,945	1,246,415	1,232,396	1,061,782	786,661	718,719
Oxygen converter ..	545,989	1,181,572	1,664,587	2,987,639	3,542,105	4,957,765
Electric and crucible	7,116,584	5,942,987	7,618,316	7,481,021	7,735,896	8,047,148
Of which—						
Ingots	100,375,469	75,959,017	83,273,954	88,450,195	87,346,859	87,631,707
Castings	263,921	161,416	160,092	194,091	166,081	160,959
Japan—						
Open hearth	9,772,879	9,065,736	12,117,154	14,807,770	16,702,821	13,074,666
Bessemer, basic ..	446,773	813,186	1,186,262	2,587,061	5,272,273	8,307,354
Electric	2,151,986	2,047,682	3,062,541	4,393,909	5,846,815	5,729,176

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

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

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Pig-iron—						
Forge and foundry ..	57,761	109,130	109,943	83,359	65,833	88,730
Refined	49,295	13,989	13,502	15,135	20,869	20,082
Other	22,078	28,568	34,514	47,030	58,375	110,611
Spiegeleisen and ferro-						
manganese	655	611	596	1,621	662	873
Ferro-tungsten ..	561	993	1,282	1,048	1,445	1,584
Ferro-molybdenum ..	161	296	333	245	246	229
Ferro-titanium ..	393	348	502	276	533	552
Ferro-vanadium ..	9	7	14	94	19	5
Ferro-niobium and ferro-						
niobium-tantalum ..	82	37	71	97	83	68
Other ferro-alloys ..	2,147	2,155	7,963	9,333	2,609	2,810
Ingots, blooms, billets ..	4,449	21,746	82,660	25,611	103,333	85,283
Old and scrap (a) ..	3,137	242,765	933,063	17,858	29,636	1,084,785
Channel Islands (Jersey)—						
Scrap	2,523	1,679	2,444	3,108	1,169	1,649
Malta—						
Scrap	10,893	7,021	10,793	8,072	11,378	4,276
Nigeria—						
Scrap	22,402	10,872	15,119	19,833	17,923	4,551
Rhodesia and Nyasaland—						
Pig-iron	10,599	1,882	35,603	44,814	117,837	201,960
Ferro-chrome	8,108	6,384	9,651	9,232	8,920	8,078
Scrap	n.a.	n.a.	26,805	8,990	1,849	10,712
Jamaica—						
Scrap	8,070	5,001	3,149	15,406	9,607	1,041
Trinidad and Tobago—						
Old and scrap	13,199	5,159	12,240	14,036	9,081	—
Canada—						
Pig-iron	515,714	300,528	418,156	431,433	537,656	414,215
Spiegeleisen	637	—	—	—	—	—
Ferro-chrome	9,225	9,339	6,709	4,117	1,466	5,895
Ferro-manganese ..	41,726	201	172	651	212	121
Ferro-silicon	58,004	31,254	31,884	47,235	43,704	38,615
Other ferro-alloys ..	690	505	438	1,002	701	2,971
Ingots, blooms, billets ..	58,200	52,239	66,182	303,701	291,457	236,238
Old and scrap	610,862	345,667	341,872	376,293	718,545	349,063
Tin-plate scrap	29,892	30,993	33,963	32,640	30,509	19,707
Hong Kong—						
Pig-iron	1,172	117	7,860	23,753	11,731	574
Old and scrap	71,277	100,341	200,634	244,016	206,010	105,163
Tinplate scrap	6,307	2,141	2,783	5,916	3,891	5,028
India—						
Pig-iron	406	—	50,566	(b) 98,720	(b) 72,594	(b) 19,011
Ferro-manganese ..	3,001	10,553	8,114	(b) 47,073	(b) 55,406	(b) 12,093
Ingots, blooms, billets ..	n.a.	n.a.	n.a.	(b) 67,479	(b) 22,718	(b) —
Old and scrap	92,944	107,575	280,711	(b) 317,222	(b) 263,371	(b) 176,325
Malaya—						
Pig-iron	1,229	502	275	127	53	656
Ingots, slabs etc. ..	2	72	2,501	120	283	1
Scrap	99,179	60,897	89,501	74,570	70,279	32,915
Tin-plate scrap	1,894	4,373	1,647	1,959	3,518	3,124

(a) Excluding ships intended for breaking up as follows (gross tonnage): 1957—5,281; 1958—47,450; 1959—97,850; 1960—54,696; 1961—55,669; 1962—126,362.

(b) Years ended March 31 following that stated.

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

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES (cont.)						
Australia (a)—						
Pig-iron	17,486	16,455	22,668	65,101	213,022	225,647
Ferro-alloys	23	7	9	14	16	48
Ingots, blooms, billets ..	1,575	2,529	561	21,431	2,038	159,248
Old and scrap	169,736	117,816	137,333	176,169	205,870	151,038
Tin-plate scrap	9,830	18,755	33,990	18,221	15,753	14,819
New Zealand—						
Scrap	88,699	60,858	52,257	55,221	14,976	n.a.
Irish Republic—						
Old and scrap	23,360	18,064	13,632	28,626	17,880	14,226
OTHER COUNTRIES						
Austria—						
Pig-iron	255,369	67,662	73,669	36,790	9,990	2,167
Ferro-silicon	196	187	1,787	251	2,619	2,380
Other ferro-alloys	292	763	2,182	3,377		
Ingots and blooms	157,031	22,905	11,310	58,598	59,887	25,799
Scrap	9,371	6,919	7,146	3,365	4,462	4,427
Belgium-Luxemburg						
E.U.—						
Pig-iron	26,228	29,817	46,909	58,940	43,894	53,204
Spiegeleisen	4,299	3,533	4,231	3,290	4,253	4,163
Ferro-manganese	14,088	13,150	13,698	16,017	16,644	22,946
Other ferro-alloys	11	741	466	5,083	7,793	8,264
Ingots	4,436	4,390	18,222	82,689	50,115	42,630
Blooms, billets, etc. ..	545,944	762,624	497,200	827,505	679,312	456,788
Old and scrap	93,796	139,881	270,462	439,159	329,671	356,644
Denmark—						
Old and scrap	24,067	23,026	44,879	24,033	20,127	27,501
Finland—						
Pig-iron	27,802	32,069	22,446	32,205	40,818	106,425
Ferro-alloys	4	—	—	—	—	—
Old and scrap	1,681	1,431	5,642	2,733	1,950	3,055
France—						
Pig-iron	183,815	83,781	160,885	228,551	254,134	218,112
Spiegeleisen	425	410	8,041	12,036	14,142	17,332
Ferro-manganese	122,795	83,036	98,939	132,693	156,294	152,040
Ferro-silicon	5,812	4,670	12,881	24,923	30,275	18,534
Ferro-chrome	11,887	10,623	21,100	18,526	16,218	15,070
Other ferro-alloys	1,732	1,592	3,294	3,462	3,193	4,682
Ingots	84,069	1,971	24,164	81,497	68,355	12,875
Blooms, billets, etc. ..	154,014	196,692	227,861	138,312	185,893	147,177
Old and scrap	643,651	579,296	1,217,162	1,203,386	1,142,799	1,171,229
Germany (Federal)—						
Pig-iron	493,903	333,314	379,152	654,027	825,357	882,775
Spiegeleisen	(b)	(b)	(b)	(b)	9,519	16,771
Ferro-alloys	56,114	16,911	40,000	32,020	41,781	43,387
Ingots, blooms, billets ..	492,171	547,973	938,779	1,014,155	1,353,355	1,015,174
Old and scrap	742,500	926,421	944,529	1,202,068	1,442,667	1,188,214
Hungary—						
Pig iron	—	19,338	19,679	76,075	33,977	27,050
Iceland—						
Scrap	2,952	1,106	4,285	5,466	4,970	2,645

(a) Years ended June 30 of that stated.

(b) Included with pig-iron.

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

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Italy—						
Pig-iron	232	448	2,610	1,390	198	31
Spiegeleisen	20	74	139	325	240	101
Ferro-manganese	211	322	4,005	3,123	2,352	1,276
Ferro-silicon	3,066	4,618	3,217	4,562	5,435	3,723
Ferro-silico-manganese	15	—	5,199	1,444	246	290
Ferro-chrome	3,407	—	8,743	7,488	10,797	2,276
Other ferro-alloys	—	39	7	2	18	2
Ingots	95,432	94,669	82,951	120,944	116,160	98,162
Blooms, billets, etc.	34,211	22,192	34,379	3,526	7,709	10,308
Scrap	15,514	437	967	1,324	1,054	885
Netherlands—						
Pig-iron	143,603	120,531	141,528	158,926	162,858	200,698
Ferro-alloys	86	125	85	157	434	209
Ingots, blooms and billets	138	2,468	654	675	4,678	8,286
Old and scrap	259,058	179,981	272,101	326,392	338,507	230,706
Norway—						
Pig-iron	44,288	58,414	95,071	108,432	117,957	132,985
Ferro-chrome	19,338	14,307	30,604	34,097	21,252	16,797
Ferro-manganese	77,719	41,844	61,938	50,497	47,360	45,844
Ferro-silicon	91,818	80,596	120,950	154,976	159,373	133,763
Ferro-silico-manganese	45,126	44,859	67,411	80,466	84,891	70,570
Other ferro-alloys	2,200	2,112	3,842	9,536	4,348	3,540
Ingots, blooms, billets	25,468	38,116	18,545	55,405	25,457	48,119
Old and scrap	4,705	5,693	6,436	4,582	5,513	2,352
Poland—						
Pig-iron	<i>n.a.</i>	22,581	1,476	1,566	2,077	27,500
Ferro-alloys	<i>n.a.</i>	5,676	10,558	7,822	4,337	3,900
Portugal—						
Pig-iron	—	16	16,623	24,049	14,795	10,017
Ferro-alloys	216	63	630	2,824	987	2,398
Old and scrap	24,757	22,505	20,562	25,761	16,393	14,782
Spain—						
Pig-iron	984	80,695	186,103	422,245	283,134	142,339
Ferro-silicon	—	—	500	8,209	11,665	9,700
Other ferro-alloys	149	—	—	4,595	5,783	5,602
Ingots, blooms, billets	—	—	18,607	376,065	234,473	62,319
Sweden—						
Pig-iron	33,533	37,376	37,429	43,938	69,721	34,413
Sponge iron	22,233	17,967	22,890	25,603	27,121	28,485
Ferro-manganese	1,229	1,382	2,693	1,650	2,540	2,537
Ferro-silicon	3,983	4,199	159	955	5,785	4,549
Ferro-silico-manganese	—	—	226	25	15	25
Ferro-chrome	9,263	9,871	15,597	15,952	18,656	17,057
Ferro-tungsten	48	64	184	126	20	104
Other ferro-alloys	362	492	955	1,727	1,602	2,902
Ingots	1,023	522	566	250	361	2,623
Blooms, billets, etc.	78,695	94,256	58,201	98,275	143,597	106,289
Old and scrap	11,274	8,307	10,164	12,541	13,868	11,288
Switzerland—						
Pig-iron and steel, etc.	10,872	3,880	6,362	392	346	507
Ferro-alloys	1,849	949	2,200	8,979	11,590	8,929
Old and scrap	4,397	3,149	3,943	5,729	6,155	6,971
U.S.S.R.—						
Pig iron	1,258,100	1,029,400	1,419,700	1,772,400	1,785,400	2,238,300
Ferro-manganese	41,000	45,000	49,700	50,000	50,800	54,800
Ferro-silicon	39,600	29,700	43,600	57,200	55,900	53,300
Other ferro-alloys	31,300	33,200	35,800	45,300	46,300	36,900
Steel ingots and billets	421,900	522,500	647,900	759,000	804,600	829,700
Scrap	54,300	53,800	104,000	167,400	219,100	221,200

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

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Yugoslavia—						
Pig-iron	—	—	8,315	—	4,206	59
Spiegeleisen	—	923	1,865	1,008	1,278	167
Ferro-chrome	2,645	7,611	7,871	8,822	7,303	5,763
Ferro-manganese	3,845	7,842	6,538	10,925	7,037	7,693
Silico-manganese	787	197	886	1,162	2,504	1,794
Ferro-silicon	605	6,126	9,723	9,322	8,105	9,561
Steel ingots	46,510	19,208	12,807	—	—	50,507
Scrap	—	—	116	1,166	11,187	2,757
Algeria—						
Old and scrap	88,309	32,295	39,804	51,597	<i>n.a.</i>	<i>n.a.</i>
Morocco—						
Old and scrap	76,405	29,402	38,801	52,445	39,355	20,138
Mozambique—						
Scrap	5,071	4,077	8,943	9,947	7,607	<i>n.a.</i>
South Africa—						
Pig-iron	2,350	31,474	273,666	220,252	244,138	212,595
Ferro-manganese	32,590	33,635	75,299	103,511	130,214	77,444
Other ferro-alloys						
Ingots, blooms, billets	42	37	34,207	19,551	17,268	30,469
Tunisia—						
Scrap	61,507	14,653	21,322	29,811	19,732	18,238
Cuba—						
Old and scrap	271,528	20,738	36,725	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Mexico—						
Ferro-alloys	2,996	395	2	—	2,574	2,795
United States—						
Pig-iron	787,805	92,275	9,235	99,797	371,132	137,839
Spiegeleisen	26	745	339	132	469	638
Ferro-phosphorus	44,926	39,735	44,556	42,765	26,839	12,616
Ferro-manganese	6,603	1,255	845	670	419	3,673
Ferro-chrome	4,049	1,714	5,470	13,918	7,004	2,745
Ferro-molybdenum	171	101	111	190	160	85
Ferro-vanadium	120	68	135	144	107	179
Ferro-silicon	2,365	1,943	9,427	4,912	31,040	3,662
Ferro-tungsten	2	1	34	—	—	5
Ferro-titanium	327	288	286	219	189	116
Other ferro-alloys	234	169	288	3,433	4,321	308
Steel ingots, slabs, blooms, billets and sheet bars	455,670	25,001	13,142	66,539	123,254	225,596
Scrap (a)	5,690,604	2,598,575	r 4,387,457	r 7,086,431	8,447,727	4,499,930
Brazil—						
Pig-iron	29,632	—	984	14,369	37,862	—
Ferro-manganese	1,673	—	—	—	49	4,937
Chile—						
Pig-iron	17,829	150	1,476	295	—	<i>n.a.</i>
Ferro-manganese	5,712	5,822	2,735	2,971	3,673	<i>n.a.</i>
Peru—						
Scrap	8,842	—	—	—	—	—
Indonesia—						
Scrap	53,709	13,996	26,544	6,428	8,312	<i>n.a.</i>
Japan—						
Pig-iron	4	11,023	76	148	235	1,867
Ferro-chrome	5,223	4,081	17,273	14,533	15,911	12,288
Ferro-manganese	35,490	47,900	33,269	38,914	14,249	21,091
Ferro-silicon	595	1,013	1,253	405	18	2,646
Ferro-silico-manganese	9,844	21,611	9,633	2,684	772	6,463
Other ferro-alloys	11,203	513	504	458	794	648
Ingots, blooms, billets	38,005	58,051	9,132	692	1,032	28,913
Scrap	—	39	23	23	95	663

(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	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Korea (South)—						
Scrap	—	1,503	663	—	500	445
Lebanon—						
Scrap	10,924	3,577	7,153	9,683	3,796	n.a.
Philippine Republic—						
Scrap	36,913	—	162	—	—	—
Thailand—						
Scrap	11,915	1,080	285	2,874	4,605	576
Turkey—						
Pig iron	8,070	—	—	9,694	10,039	n.a.
Ingots, blooms, billets ..	—	—	—	9,842	34,595	n.a.
Old and scrap	11,476	261	1,020	1,041	5,388	584

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

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Pig-iron—						
Charcoal	483	662	448	942	1,492	808
Forge and foundry ..	—	573	2,981	2,036	4,080	1,436
Hematite	7,362	5,573	28,885	36,300	17,720	59,088
Basic	305,237	137,130	58,480	178,019	4,922	66,760
Other (vanadium-titanium pig-iron produced in electric furnace)	4,165	6,892	5,385	4,092	4,436	3,756
Sponge-iron	3,393	3,545	4,500	5,799	5,519	5,693
Spiegeleisen and ferro-						
manganese	83,254	18,087	28,807	35,375	41,830	44,206
Ferro-silicon	77,499	55,277	63,334	95,967	85,234	75,804
Ferro-silicon-chrome ..	2,097	1,744	1,623	3,595	2,984	3,043
Ferro-chrome	29,192	25,764	31,901	46,606	42,358	24,510
Ferro-vanadium	(b)	(b)	—	—	71	24
Silico-manganese	13,845	16,122	22,685	29,185	26,497	25,056
Other ferro-alloys	1,454	1,077	1,175	1,611	2,144	2,016
Iron and steel ingots ..	11,420	711	833	30,551	28,369	4,627
Blooms, billets, slabs—						
Iron	223	—	—	202	—	127
Steel	234,905	82,675	1,768	222,574	70,757	151,719
Old and scrap (a)	665,574	64,766	2,873	277,609	22,648	4,524
Kenya—						
Pig-iron	1,273	140	279	862	1,387	493
Ingots, blooms, etc. ..	1,555	1,753	1,360	1,768	1,495	1,496
Mauritius—						
Pig-iron, ingots, etc. ..	28	56	30	40	34	62
Rhodesia and Nyasaland—						
Pig-iron, ingots, etc. ..	146	298	357	1,359	601	1,491
Ferro-alloys	—	—	927	1,475	1,353	1,820
Tanganyika—						
Pig-iron	80	74	37	75	101	94
Ferro-alloys	488	805	790	666	394	723
Ingots, blooms, etc. ..	806	477	271	310	231	163
Uganda—						
Ingots, blooms, etc. ..	108	193	79	80	133	338
Canada—						
Pig-iron	6,287	23,659	18,937	7,662	308	9,023
Sponge iron	308	251	331	513	667	795
Ferro-manganese	664	2,217	2,084	13,835	10,772	13,332
Ferro-silicon	723	1,101	2,263	3,455	3,846	5,332
Ferro-tungsten	76	89	370	438	231	127
Silico-manganese	2,015	1,950	2,669	2,112	1,940	2,434
Other ferro-alloys	5,045	4,011	10,352	8,613	5,939	8,468
Ingots, blooms, billets ..	18,994	5,011	11,254	27,396	5,144	5,595
Scrap	431,137	258,397	587,822	524,877	313,878	400,618
Jamaica—						
Pig-iron	64	52	87	102	112	76
Trinidad and Tobago—						
Pig-iron	10	48	6	11	33	11
Ingots, etc.	775	132	846	685	141	733
Ceylon—						
Pig-iron	227	948	862	350	695	586
Ingots, blooms, billets ..	3,201	2,483	1,600	2,425	3,809	4,385
Cyprus—						
Pig-iron	1,899	—	10	33	—	50
Ingots, etc.	—	2	1	629	901	714

(a) Excluding ships intended for breaking up as follows (gross tonnage): 1957—18,297; 1958—4,740; 1959—38,051; 1960—284,532; 1961—37,407; 1962—16,413.

(b) 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	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
(cont.)						
Hong Kong—						
Pig-iron	6,275	3,017	10,433	29,908	13,688	5,834
Ingots, blooms, billets ..	1,504	561	594	1,418	640	4,644
Old and scrap	30,281	14,234	24,439	27,573	25,677	41,639
Tinplate scrap	12,113	8,932	13,093	16,660	12,055	12,891
India—						
Pig-iron	113,608	100,443	67,993	(b) 10,870	(b) 1,672	(b) 826
Ingots, blooms, billets ..	228,710	226,917	138,255	(b) 35,408	(b) 16,958	(b) 76,647
Ferro-chrome	259	131	271	(b) 410	(b) 803	(b) 656
Ferro-manganese	275	200	150	(b) 155	(b) 519	(b) 453
Ferro-silicon	18	38	689	(b) 3,637	(b) 5,614	(b) 534
Other ferro-alloys	544	711	1,111	(b) 1,435	(b) 922	(b) 760
Old and scrap	8,966	4,553	29,807	(b) 12,983	(b) 6,669	(b) 1,710
Malaya—						
Pig-iron	3,599	2,346	2,761	3,958	4,277	9,780
Ferro-alloys	43	2	27	11	30	38
Ingots, slabs, etc.	1,500	3,362	2,343	3,543	3,673	6,204
Scrap	4,841	3,493	1,197	1,426	718	1,752
Tinplate scrap	7,489	7,765	8,735	12,568	12,563	13,985
North Borneo—						
Ingots, etc.	405	342	475	553	322	730
Pakistan—						
Pig-iron	27,769	18,174	67,432	63,876	42,920	76,343
Ferro-alloys	104	81	74	359	1,145	930
Ingots, blooms, billets ..	85,215	85,061	56,302	39,750	228,214	229,705
Old and scrap	139	692	94	145	518	49
Australia (c)—						
Ferro-manganese	2,781	4,908	3,650	18,634	36,026	31,300
Ferro-chrome	1,911	1,240	2,680	3,409	6,723	2,197
Ferro-molybdenum	158	129	140	106	525	74
Ferro-silicon	7,228	7,191	8,256	8,383	8,177	6,207
Other ferro-alloys	397	698	810	451	1,879	1,554
Ingots and billets	187	34	6	7,504	410	(a) 191
Scrap	(a) 729	(a) 510	(a) 20	(a) 221	(a) 2,466	15
New Zealand—						
Pig-iron	5,480	9,755	7,332	8,107	9,238	8,896
Ferro-alloys	20	64	73	135	263	709
Billets and blooms	323	211	1,089	157	2,762	6,729
Irish Republic—						
Pig-iron	3,635	3,210	3,534	3,150	3,641	3,354
Ferro-alloys	295	348	519	655	573	491
Ingots, blooms, billets ..	1,114	5,077	13,015	3,601	5,658	9,349
OTHER COUNTRIES						
Austria—						
Pig-iron	9,492	11,498	7,771	156,408	67,021	35,299
Spiegeleisen	n.a.	n.a.	493	1,728	1,698	2,255
Ferro-manganese	7,518	8,268	5,818	9,473	8,679	8,481
Ferro-silicon	8,603	6,289	8,985	10,099	8,564	7,787
Other ferro-alloys	11,445	7,545	14,993	19,324	15,815	14,285
Ingots and blooms	1,151	2,574	14,824	10,197	3,212	375
Scrap	208,099	61,958	47,787	119,810	78,267	41,119

(a) Excess of re-exports.

(c) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

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

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Belgium-Luxemburg						
E.U.—						
Pig-iron	304,020	227,278	336,614	364,542	379,182	418,972
Sponge-iron	302	205	260	752	1,064	2,094
Spiegeleisen	16,642	20,666	7,118	7,099	16,143	22,537
Ferro-chrome, etc.	1,834	2,031	2,759	4,258	4,161	4,672
Ferro-manganese	80,948	46,626	55,300	58,558	52,644	56,141
Ferro-silico-manganese	2,553	2,317	2,494	3,378	3,766	3,578
Ferro-molybdenum	242	65	265	482	532	498
Ferro-silicon	17,034	11,388	15,204	20,333	20,881	15,636
Ferro-tungsten	31	29	71	80	234	132
Other ferro-alloys	539	482	571	943	896	744
Ingots	4,452	3,705	22,618	26,439	57,914	14,344
Blooms, billets, etc.	37,226	38,444	65,176	52,486	32,634	81,943
Old and scrap	527,466	304,605	240,913	192,680	193,644	120,620
Czechoslovakia—						
Pig iron	233,000	246,000	188,000	199,000	175,000	250,000
Denmark—						
Pig-iron	69,673	39,428	55,407	84,814	74,175	108,880
Ferro-chrome	132	236	321	450	437	413
Ferro-manganese, etc.	2,460	2,219	2,275	2,638	2,428	2,209
Ferro-silicon	3,609	2,321	1,829	3,964	3,426	2,832
Other ferro-alloys	69	64	187	522	259	97
Ingots, blooms, billets	2,439	359	21	3,672	20,625	11,656
Old and scrap	6,605	4,116	3,007	977	1,289	905
Finland—						
Pig-iron	5,302	1,834	3,788	2,927	2,682	3,379
Billets	51,882	15,431	135,800	135,217	103,657	78,928
Ferro-manganese and spiegeleisen	2,925	1,363	2,176	3,338	2,194	2,545
Other ferro-alloys	3,446	2,312	5,145	6,997	7,019	7,026
Old and scrap	49,639	48,006	75,693	94,006	101,353	126,029
France—						
Pig-iron—hematite	184,893	129,831	93,560	115,784	148,191	138,468
do. other	18,007	17,939	19,206	33,754	28,544	23,837
Spiegeleisen	26,816	16,552	10,786	7,317	2,151	2,022
Ferro-manganese	40	3,405	4,665	6,333	7,276	7,626
Ferro-silicon	176	66	12	81	1	74
Ferro-chrome	2	19	12	285	361	942
Ferro-nickel	16,492	11,195	10,005	23,248	20,957	12,238
Other ferro-alloys	163	21	267	154	674	1,073
Ingots	45,543	22,400	19,430	86,139	80,314	126,196
Blooms, billets, etc.	127,895	256,700	315,174	637,978	680,485	495,074
Old and scrap	624,356	557,936	305,955	487,660	730,655	361,304
Germany (Federal)—						
Pig-iron	68,912	273,363	324,088	387,415	319,545	586,139
Spiegeleisen	(a)	(a)	(a)	(a)	15,223	14,930
Ferro-alloys	72,410	99,420	159,273	224,964	242,207	205,761
Rough blooms, ingots, bars, etc.	248,348	204,960	272,956	563,425	279,656	229,154
Old and scrap	1,270,900	354,508	612,524	1,008,926	926,736	611,407
Germany (East)—						
Pig-iron	436,629	547,700	629,600	696,400	554,200	619,300
Greece—						
Pig-iron	33,105	55,190	74,830	13,658	25,346	43,833
Ferro-alloys	1,003	1,200	741	543	737	722
Ingots, blooms, slabs, etc.	73,298	91,137	78,661	r 104,174	74,602	102,482
Hungary—						
Pig iron	123,171	38,061	59,246	41,767	38,239	100,939
Ferro-chrome	2,207	1,754	2,130	2,260	3,419	4,035
Ferro-manganese	7,121	5,834	6,672	6,649	7,621	10,485
Ferro-silicon	1,669	1,378	143	2,828	1,445	2,087
Other ferro-alloys	310	203	218	153	368	422
Ingots	105,872	146,429	158,117	207,816	173,756	323,002

(a) Included with pig-iron.

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

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Italy—						
Pig-iron	381,921	329,628	370,340	689,614	870,005	783,680
Spiegeleisen	168	4,431	2,265	6,778	12,335	13,201
Ferro-chrome	5,870	6,132	8,359	15,091	14,157	10,198
Ferro-manganese	9,257	18,136	20,182	27,526	30,620	42,949
Ferro-silicon	2,628	2,419	2,853	1,492	1,420	6,122
Ferro-silico-manganese	2,840	2,001	1,767	1,991	2,913	2,670
Ferro-titanium	146	272	234	286	507	457
Ferro-tungsten	79	55	41	116	311	185
Other ferro-alloys	438	497	437	1,033	1,024	1,484
Ingots	113,097	64,998	83,008	213,500	77,703	73,169
Blooms, billets, etc.	80,389	95,497	109,174	397,059	669,605	354,908
Old and scrap	2,779,294	2,769,895	2,588,339	3,181,660	3,345,502	3,902,135
Netherlands—						
Pig-iron	20,981	13,692	17,144	22,704	13,610	13,063
Spiegeleisen	1,446	512	1,672	6,199	935	483
Ferro-manganese	10,278	9,103	8,806	12,807	14,210	8,297
Ferro-chrome	186	244	290	499	302	438
Ferro-silicon	3,837	2,188	2,665	3,797	5,249	4,792
Ferro-silico-manganese	277	229	372	452	896	405
Ferro-molybdenum	35	35	21	46	51	99
Other ferro-alloys	152	515	644	564	984	1,476
Ingots, blooms, billets	175,330	140,317	91,672	164,442	114,113	57,835
Old and scrap	63,505	52,373	64,884	94,016	36,956	81,097
Norway—						
Pig-iron	12,763	11,848	9,566	9,944	16,813	8,352
Ferro-alloys	1,495	199	106	168	4,816	317
Ingots, blooms, billets	3,913	7,460	1,720	2,459	11,757	8,376
Old and scrap	8,280	1,695	65	14,055	52,430	43,490
Poland—						
Pig-iron	<i>n.a.</i>	11,848	84,014	13,262	82,389	1,000
Ferro-alloys	<i>n.a.</i>	1,274	1,035	3,287	2,126	1,000
Portugal—						
Iron and steel ingots	12,306	12,202	1,749	156	1,113	1,223
Old and scrap	3,179	4,174	2,622	3,656	1,176	1,108
Roumania—						
Ferro-alloys	<i>n.a.</i>	17,300	20,100	24,900	27,300	34,800
Spain—						
Pig-iron	14,384	2,615	1,048	715	1,470	3,670
Ferro-manganese	342	120	629	140	1,421	1,397
Other ferro-alloys	398	675	1,256	816	1,911	2,670
Ingots and blooms	1,444	858	130	509	278	445
Old and scrap	69,158	169,997	115,641	113,583	242,981	301,751
Sweden—						
Pig-iron	89,818	91,467	142,842	212,019	128,436	178,431
Spiegeleisen	88	59	98	118	139	100
Ferro-manganese	7,016	3,176	5,765	6,138	10,806	9,982
Ferro-chrome	5,430	2,398	6,318	13,164	7,288	3,060
Ferro-silicon and ferro-silico-manganese	4,249	2,319	6,024	8,989	9,496	9,628
Ferro-tungsten	141	62	185	411	396	260
Other ferro-alloys	4,139	1,314	1,518	5,273	3,689	1,289
Blooms, billets, etc.	417	605	1,126	24,942	22,352	4,814
Old and scrap	36,212	58,971	198,871	297,070	163,907	28,946
Switzerland—						
Pig-iron	60,685	31,501	34,469	57,284	74,463	81,618
Ferro-alloys	4,490	5,201	4,230	9,139	10,718	9,118
Ingots, blooms, billets	96,606	55,742	118,065	157,509	217,092	278,244
Old, filings and scrap	12,134	9,717	48,613	44,002	17,997	37,900
U.S.S.R.—						
Pig-iron	150,000	157,100	135,900	205,100	132,100	138,800
Ferro-alloys	4,700	4,800	2,400	13,200	16,000	12,200

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

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Yugoslavia—						
Pig-iron	12,380	37,491	54,460	64,292	83,580	112,468
Ferro-alloys	553	537	854	1,172	1,042	1,030
Ingots	469	1	3,104	33,382	18,651	3,329
Scrap	55,975	36,916	20,010	63,072	123,102	78,421
Algeria—						
Pig-iron	413	495	641	403	<i>n.a.</i>	<i>n.a.</i>
Spiegeleisen and ferro-alloys	552	775	808	898	<i>n.a.</i>	<i>n.a.</i>
Ingots, blooms, billets ..	22,164	22,398	14,665	13,858	<i>n.a.</i>	<i>n.a.</i>
Old and scrap	47	12	1,681	1,456	<i>n.a.</i>	<i>n.a.</i>
Congo Republic—						
Pig-iron	647	289	95	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ferro-alloys	379	710	285	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Egypt—						
Pig-iron and spiegeleisen	6,645	16,997	12,209	19,619	39,933	121,231
Ferro-alloys	3,286	2,587	4,911	2,049	2,371	4,680
Ingots, billets, etc. ..	200	2,976	26	295	2,950	16,851
Scrap	3,322	4,068	7,721	4,783	8,088	26,244
Morocco—						
Pig-iron	688	831	560	824	901	863
Ferro-alloys	138	141	96	135	168	189
Scrap, etc.	335	9,813	5,456	1,608	600	409
South Africa—						
Pig-iron and steel ingots	16,888	2,216	6	689	307	148
Ferro-silicon	28	400	204	627	447	453
Other ferro-alloys	205	175	240	189	379	417
Sudan—						
Crude iron and steel ..	11,289	10,416	9,318	18,454	17,918	49,806
Tunisia—						
Pig-iron	106	144	189	118	100	120
Old and scrap	2,084	571	80	163	59	12
Cuba—						
Pig-iron	374	292	8,668	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ingots, blooms, etc. ..	40,214	38,413	27,932	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Mexico—						
Pig-iron	—	5	—	—	429	—
Ferro-manganese	160	1,192	730	158	106	97
Other ferro-alloys	3,342	3,805	3,032	1,673	1,446	1,415
Ingots, blooms, billets ..	120,531	87,408	39,619	2,468	10	7
Scrap	293,608	288,036	378,445	371,683	351,553	269,289
Tin-plate scrap	15,933	6,446	10,804	12,184	8,942	12,348
Salvador—						
Ingots, blooms, billets	794	322	106	1,218	2,037	47
Scrap	420	274	298	321	154	411
United States—						
Pig-iron	201,238	187,271	624,637	295,399	336,768	446,437
Ferro-chrome	42,562	22,124	83,331	44,096	24,834	32,428
Ferro-manganese	301,856	57,082	80,412	107,341	198,157	112,156
Ferro-silicon	17,772	10,369	15,613	15,954	12,259	14,580
Ferro-titanium	114	90	113	74	163	107
Ferro-tungsten	225	87	294	100	191	294
Sponge iron	r 8,642	r 5,367	r 7,665	r 4,299	3,928	5,126
Bar-iron, slabs, blooms, etc.	101	61	73	65	54	189
Steel ingots, blooms, etc.	6,953	16,016	81,937	60,502	159,746	152,326
Scrap	181,613	264,160	239,142	123,828	210,134	215,016
Tin-plate scrap	31,431	32,824	37,151	r 36,352	29,499	18,832

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

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Argentina—						
Pig-iron	136,889	93,281	135,456	129,223	41,270	12,035
Ferro-manganese	—	—	—	292	415	452
Ferro-silicon	17,870	17,946	9,578	13,392	23,796	706
Ingots	415,594	630,941	559,085	442,721	720,552	270,872
Old and scrap	—	—	909	1,065	3,228	70
Brazil—						
Ferro-manganese	73	63	819	45	171	44
Ferro-silicon	53	78	2,156	355	57	160
Ferro-chrome	83	250	269	585	881	895
Other ferro-alloys	169	193	71	155	295	304
Chile—						
Pig-iron	238	51	120	113	688	100
Ferro-alloys	88	237	42	172		
Colombia—						
Pig-iron	—	—	5	—	—	9
Ingots, etc.	314	620	50	—	10	—
Blooms, billets, etc.	1	29	20	—	—	4,867
Ferro-alloys	2,161	976	4,058	3,611	2,105	1,855
Peru—						
Pig-iron	455	483	197	113	137	298
Ferro-alloys	326	334	460	428	1,042	371
Uruguay—						
Ingots	20,807	36,127	34,439	29,314	<i>n.a.</i>	<i>n.a.</i>
Ferro-alloys	308	290	328	222	<i>n.a.</i>	<i>n.a.</i>
Venezuela—						
Pig-iron	255	19,677	10,512	231	234	741
Ferro-alloys	704	867	682	274	607	4,556
Scrap	—	—	9,315	—	4	11,000
Ingots, blooms and billets	<i>n.a.</i>	<i>n.a.</i>	1,116	13,345	9,991	43,225
Formosa—						
Blooms, billets, etc.	4,624	4,584	1,942	4,092	10,061	10,956
Ferro-alloys	902	884	326	584	1,027	600
Old and scrap	38,821	44,912	68,843	142,146	180,443	291,292
Iran (a)—						
Old and scrap	3,548	1,746	848	4,129	<i>n.a.</i>	<i>n.a.</i>
Israel—						
Pig-iron	10,371	14,306	24,044	21,457	23,094	18,240
Ferro-alloys	<i>n.a.</i>	477	1,121	1,820	<i>n.a.</i>	4,471
Japan—						
Pig-iron	930,467	2,290	272,621	980,531	2,027,909	1,424,473
Ferro-alloys	411	97	2	10	21,445	6,541
Ingots, blooms, billets	242,506	—	696	3,736	124,259	113,727
Old and scrap	3,275,553	1,326,785	3,987,543	4,355,670	6,900,920	3,577,393
Lebanon—						
Pig-iron	1,477	2,044	7,191	5,442	6,968	<i>n.a.</i>
Ferro-alloys	4	5	63	—	572	<i>n.a.</i>
Old and scrap	2,080	141	2,449	2,281	7,554	<i>n.a.</i>
Philippine Republic—						
Pig-iron	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	17,241	14,097	10,945
Ferro-alloys	620	1,074	712	502	150	1,098
Ingots, blooms, billets	33,083	2,583	1,416	1,856	6,831	2,237
Syria—						
Pig-iron	188	867	842	1,383	645	<i>n.a.</i>
Scrap	817	686	1,426	1,337	1,475	<i>n.a.</i>
Thailand—						
Pig-iron	514	606	435	501	315	296
Ferro-alloys	321	495	791	418	723	602
Turkey—						
Pig-iron	—	—	5,023	4,562	5,015	8,033
Ferro-alloys	357	1,049	369	955	3,627	4,400
Blooms, billets, etc.	—	—	12,077	24,265	—	8,079

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

LEAD
PRODUCTION OF LEAD ORE
(Metal content)

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom	8,094	4,165	1,809	1,420	1,587	923
Nigeria (a)	450	487	378	199	6	—
Northern Rhodesia (b) ..	15,078	13,043	14,400	14,429	15,139	14,592
Southern Rhodesia	23	—	—	17	31	—
Tanganyika (c)	4,851	4,465	5,715	6,185	345	—
Uganda	15	229	53	—	—	—
Canada (d)	162,039	166,679	166,693	183,616	205,745	170,186
Hong Kong	70	16	—	—	—	—
India	3,274	3,911	4,790	4,456	4,008	4,523
Australia	333,753	328,347	316,293	308,163	269,656	369,906
TOTAL	527,647	521,342	510,131	518,485	496,517	560,130
Irish Republic	1,852	—	1,318	1,322	249	—
OTHER COUNTRIES						
Austria	5,884	6,048	6,028	5,695	6,021	5,887
Bulgaria	62,100	69,500	79,200	82,400	(e) 79,000	(e) 80,300
Czechoslovakia (e)	5,900	5,900	6,000	6,400	6,400	13,300
Finland (f)	2,342	2,216	1,898	1,567	3,071	2,822
France	12,090	13,149	16,370	18,260	18,558	13,400
Germany—						
Federal Republic	69,940	59,953	51,681	49,106	48,777	48,968
East (g)	7,000	7,000	7,000	7,000	7,000	7,000
Greece	7,267	10,058	9,840	9,087	11,382	13,000
Italy	52,970	r 58,310	r 50,585	46,328	44,304	37,396
Norway	884	2,099	2,220	2,482	2,254	2,815
Poland	29,500	32,600	34,800	38,600	37,600	39,400
Portugal	1,355	888	31	31	25	43
Roumania (b) (g)	11,000	11,000	11,000	11,000	11,000	12,000
Spain	64,191	68,491	68,992	71,744	78,449	69,896
Sweden	35,893	41,602	47,609	r 54,432	61,100	66,720
U.S.S.R. (b) (g)	280,000	300,000	320,000	340,000	370,000	400,000
Yugoslavia	88,664	88,423	90,990	89,780	95,153	100,383
Algeria	10,133	9,906	10,869	10,294	9,230	8,897
Angola (i)	17	88	12	n.a.	n.a.	n.a.
Congo Republic	(e) 200	—	—	—	—	—
Congo (Republic of)	1,810	3,200	4,900	4,224	1,458	—
Egypt	250	(e) 290	690	79	36	2
Morocco	91,300	92,389	90,300	93,254	86,874	88,681
South Africa	1,092	32	150	121	91	5
South West Africa	82,453	74,818	69,242	63,800	62,000	73,038
Tunisia	23,525	22,160	17,860	17,630	16,560	12,864
Cuba	63	n.a.	—	—	—	—
Greenland	7,332	8,588	10,386	6,820	9,021	796
Guatemala (f)	11,192	7,846	5,697	8,422	8,445	(h) 1,906
Honduras	(h) 2,638	3,018	4,111	5,279	6,037	5,823

(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) Imports into the United States.

(i) Including lead in vanadium-lead ore as follows (long tons): 1957—4; 1958—80; 1959—12; 1960—n.a.; 1961—n.a.; 1962—n.a.

PRODUCTION OF LEAD ORE (cont.)

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Mexico (a)	211,482	198,734	187,668	187,658	178,462	190,245
United States (a)	301,979	238,729	228,202	220,240	233,858	211,568
Argentina	30,500	29,000	29,000	28,000	27,000	28,000
Bolivia (c)	25,802	22,432	21,652	21,031	20,002	18,307
Brazil (d)	3,462	4,269	(e) 5,300	(e) 9,647	(e) 12,040	14,070
Chile	2,775	2,514	2,285	2,405	2,011	1,634
Colombia (g)	1	760	509	629	645	392
Ecuador	108	118	105	106	109	122
Peru	134,986	132,043	(a) 113,396	(a) 129,551	(a) 134,244	(a) 126,152
Burma	14,612	18,911	19,000	17,000	16,500	20,000
China (e)	40,000	50,000	65,000	80,000	90,000	90,000
Iran (e) (f)	16,700	16,700	14,700	14,700	14,700	10,000
Japan	35,502	36,114	35,575	r 38,908	45,549	52,392
Korea (South)	850	1,200	200	900	850	1,400
Korea (North) (b)	35,000	40,000	45,000	r 50,000	50,000	50,000
Philippine Republic	801	1,264	349	120	99	81
Thailand	2,987	979	1,500	2,000	2,300	2,500
Turkey	4,146	3,019	2,137	1,744	1,673	n.a.
TOTAL	1,800,000	1,900,000	1,800,000	1,800,000	1,900,000	1,900,000
WORLD'S TOTAL	2,300,000	2,400,000	2,300,000	2,400,000	2,400,000	2,500,000

(a) Amount estimated as recoverable.

(b) Estimated.

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

(d) Smelter.

(e) United States Bureau of Mines' estimate.

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

(g) Imports into the United States.

METAL PRODUCTION OF LEAD

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom (h) ..	r 10,576	r 7,155	r 8,765	r 15,399	24,784	29,152
Northern Rhodesia ..	15,078	13,043	14,400	14,429	15,139	14,592
Canada	127,621	118,738	120,800	141,527	153,422	135,908
India	3,175	3,334	3,895	r 3,686	3,606	2,804
Australia (c) ..	239,052	248,645	236,115	242,546	210,354	263,237
TOTAL	r 395,502	r 390,915	r 384,000	r 417,587	407,305	445,693
OTHER COUNTRIES						
Austria (b)	10,762	11,386	11,292	11,211	11,260	11,031
Belgium (b)	97,696	92,324	87,044	91,241	98,312	91,685
Bulgaria	18,995	25,658	32,223	39,768	40,000	43,000
Czechoslovakia (a) ..	9,000	9,000	9,000	9,000	9,000	9,000
France	72,622	r 69,500	r 68,700	r 73,300	70,300	69,400
Germany—Federal ..	135,665	132,130	147,172	145,332	139,000	146,000
do. East (a) (b) ..	22,100	25,000	25,000	25,000	25,000	25,000
Greece	3,560	3,866	3,680	3,042	2,917	2,900
Italy	39,022	r 46,888	r 44,123	42,908	44,437	41,323
Poland	35,137	35,200	38,100	39,100	39,200	40,100
Portugal	740	1,644	782	891	1,485	1,940
Roumania (a)	11,000	11,000	11,000	11,000	11,000	12,000
Spain	58,019	69,401	67,408	70,057	76,498	71,130
Sweden	24,483	32,548	36,267	43,850	38,166	38,140
U.S.S.R. (a)	280,000	300,000	320,000	340,000	370,000	400,000
Yugoslavia	77,264	82,950	84,046	87,735	88,973	96,379
Morocco	30,752	32,601	28,000	30,242	24,102	23,762
Tunisia	24,168	24,748	21,464	19,548	18,160	15,578
Guatemala	—	—	50	179	55	62
Mexico	197,703	192,622	185,967	164,019	187,356	178,734
United States (e) ..	476,315	419,090	304,362	341,461	401,397	335,736
Argentina	25,500	32,300	33,600	28,900	26,100	24,000
Bolivia (f)	2,314	784	223	46	4	n.a.
Brazil	3,462	4,269	(d) 5,300	(d) 9,647	(d) 12,040	14,070
Chile	—	287	796	589	472	—
Peru	67,843	63,433	55,910	72,970	75,226	67,282
Burma	19,478	17,098	19,337	13,161	15,514	17,110
China (a) (b)	40,000	60,000	75,000	70,000	70,000	70,000
Iran (g)	(d) 690	935	(d) 900	1,143	1,283	393
Japan	48,281	37,869	59,957	68,273	74,532	86,371
Korea (North)	(d) 16,700	(a) 20,000	(a) 25,000	(a) 25,000	(a) 40,000	(a) 40,000
Turkey	(d) 2,000	2,657	1,612	393	(a) 490	(a) 673
TOTAL	1,800,000	1,900,000	1,800,000	1,900,000	2,000,000	2,000,000
WORLD'S TOTAL ..	2,200,000	2,300,000	2,200,000	2,300,000	2,400,000	2,400,000

(a) Estimated.

(b) Including secondary metal.

(c) Including lead in base bullion as follows:

Year	Long tons	Year	Long tons
1957	46,891	1960	52,723
1958	57,171	1961	48,090
1959	50,310	1962	73,112

(d) United States Bureau of Mines' estimate.

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

Year	Long tons	Year	Long tons
1957	436,812	1960	419,556
1958	358,738	1961	404,279
1959	403,024	1962	396,609

(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	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Unwrought	10,962	12,732	9,340	15,317	25,913	32,076
do. alloys	1,387	2,383	2,796	2,697	3,086	3,570
Semi-manufactures (a)	2,585	2,764	2,613	3,064	2,489	2,049
White lead	1,744	1,815	1,769	2,179	2,140	3,614
Red lead, etc.	2,953	3,815	3,532	3,811	3,876	3,928
Nigeria—						
Ore and concentrates ..	908	780	1,208	r 789	522	610
Rhodesia and Nyasaland—						
Ore	96	—	10	57	15	—
Unwrought	12,260	10,938	13,124	12,052	10,951	13,916
Tanganyika—						
Concentrates (Pb content)	4,851	4,465	5,715	6,185	345	—
Uganda—						
Ore	61	100	200	67	—	—
Canada—						
Ore (Pb content)	39,435	48,287	47,970	45,835	63,363	53,120
Unwrought	75,483	82,456	82,368	86,115	105,033	112,323
Scrap	305	385	2,701	5,971	(a) 2,238	(a) 1,589
White lead	15	591	745	972	n.a.	n.a.
Hong Kong—						
Ore and concentrates ..	175	117	—	—	—	—
Unwrought (a)	75	267	382	578	281	700
Scrap	16	104	70	67	225	45
Semi-manufactures (a)	12	6	6	9	4	—
Malaya—						
Unwrought (a)	464	686	884	537	593	284
Semi-manufactures (a)	13	20	19	24	24	37
Australia (b)—						
Ores and concentrates (Pb content)	60,431	72,515	69,574	60,054	60,655	59,802
Base bullion (Pb content)	53,156	48,166	59,273	48,920	53,365	46,140
Unwrought	167,380	164,060	143,828	121,420	127,055	19,942
do. alloys	714	447	365	921	4,933	1,390
Scrap (a)	9,230	6,573	2,970	1,241	531	6
Semi-manufactures	206	99	93	97	1,140	351
Red and white lead, etc.	1,455	1,477	1,489	1,798	2,061	2,468
Irish Republic—						
Ore and concentrates ..	3,162	882	2,121	2,245	1,249	—
Scrap	441	416	356	285	243	n.a.
OTHER COUNTRIES						
Austria—						
Unwrought (a)	3,484	3,205	3,336	3,134	2,829	2,680
Scrap	64	15	—	—	10	—
Red and white lead, etc.	466	461	678	1,199	961	611

*In these tables the description "unwrought" lead corresponds to item 685.1 of the Standard International Trade Classification and comprises base bullion, pigs, unwrought bars, etc. "Semi-manufactures" corresponds to S.I.T.C. 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.

EXPORTS OF LEAD, ETC. (cont.)

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962	
OTHER COUNTRIES							
<i>(cont.)</i>							
Belgium-Luxemburg							
E.U.—							
Unwrought	59,743	64,280	53,587	50,412	53,613	57,781	
do. alloys	1,546	1,880	2,203	2,149	2,492	2,923	
Scrap	140	2,641	555	1,668	1,191	2,031	
Semi-manufactures (a)	4,393	3,807	5,016	4,327	6,479	6,994	
Red and white lead, etc.	3,852	3,268	3,163	3,970	4,547	4,922	
Denmark—							
Unwrought	6,413	9,869	7,967	4,055	5,230	1,091	
do. alloys	3,399	3,731	3,773	4,398	3,251	3,267	
Scrap	738	180	24	103	—	—	
Semi-manufactures (a)	3	17	49	74	168	218	
Finland—							
Unwrought (a) ..	—	1,222	400	369	124	57	
France—							
Ore	1,901	1,983	4,536	19,170	8,367	4,837	
Unwrought	10,851	15,171	11,478	6,243	4,699	3,408	
do. alloys	367	1,407	1,462	942	1,382	1,993	
Scrap	23	3	56	563	1,642	7,432	
Semi-manufactures (a)	1,229	1,215	1,529	1,256	1,148	757	
Red and white lead, etc.	4,595	4,692	6,430	7,286	4,850	4,809	
Germany (Federal)—							
Ore	6,709	176	26	—	—	5	
Unwrought (a) ..	37,210	27,215	27,276	24,529	25,271	22,482	
Scrap (a)	453	144	23	702	2,770	5,066	
Semi-manufactures (a)	2,673	3,209	4,103	3,332	4,293	3,268	
Red and white lead ..	9,251	7,861	10,975	9,722	10,725	9,884	
Greece—							
Ore	10,487	16,952	14,299	16,159	14,185	12,066	
Unwrought	—	330	—	6	8	—	
Italy—							
Ore	7,959	13,611	10,437	7,240	4,811	5,442	
Unwrought (a) ..	280	1,069	286	18	4	89	
Semi-manufactures (a)	35	25	20	1,281	184	74	
Red and white lead ..	52	24	178	57	1,378	1,434	
Netherlands—							
Unwrought	7,117	3,769	5,417	6,333	7,243	5,859	
do. alloys	1,480	956	683	1,466	1,072	1,207	
Scrap (a)	779	772	1,013	1,655	3,178	2,683	
Semi-manufactures (a)	1,529	1,892	3,576	3,547	2,994	2,477	
Red and white lead ..	2,161	1,920	1,811	1,416	1,520	2,038	
Norway—							
Ore	1,472	3,478	3,400	4,364	3,386	5,070	
Unwrought (a) ..	47	184	285	215	481	251	
Semi-manufactures (a)	243	233	273	179	192	341	
Scrap	1,866	1,672	1,677	2,050	2,356	2,369	
Portugal—							
Unwrought (a) ..	} 27	39	47	} 26	8	5	
Semi-manufactures (a)		6	9		50	20	22
Red and white lead ..		9	6		9	53	42	41
Spain—							
Ore	—	—	—	2,490	1,165	533	
Unwrought (a) ..	11,442	23,093	29,387	37,762	35,795	28,791	
Semi-manufactures (a)	347	50	1,036	3,100	39	152	
Sweden—							
Ore	17,722	12,425	12,296	9,028	22,443	41,966	
Unwrought	9,967	16,693	18,770	17,352	14,306	12,686	
do. alloys	<i>n.a.</i>	<i>n.a.</i>	1,903	2,177	1,576	1,567	
Scrap	232	52	157	231	167	52	
Semi-manufactures (a)	41	11	6	154	196	233	
Red and white lead, etc.	847	1,267	1,462	1,658	1,606	1,352	

(a) Including alloys.

EXPORTS OF LEAD, ETC. (cont.)

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Switzerland—						
Unwrought	27	61	83	—	6	1
Scrap	2,181	1,956	2,445	2,032	2,092	2,377
Semi-manufactures	1	25	1	83	78	101
U.S.S.R.—						
Unwrought	54,000	61,200	56,300	68,700	100,700	92,900
Yugoslavia—						
Unwrought	62,986	61,438	57,896	60,675	50,128	51,251
do. alloys	738	344	<i>r</i> 2,072	<i>r</i> 1,670	1,260	863
Semi-manufactures (a)	531	486	<i>r</i> 3,134	<i>r</i> 4,660	6,715	14,424
Red lead	151	187	154	307	245	411
Algeria—						
Ore	8,514	11,290	8,566	5,729	<i>n.a.</i>	<i>n.a.</i>
Unwrought (a)	14	53	39	51	<i>n.a.</i>	<i>n.a.</i>
Scrap	1,510	2,286	2,485	3,692	<i>n.a.</i>	<i>n.a.</i>
Red and white lead	7	2	5	14	<i>n.a.</i>	<i>n.a.</i>
Angola—						
Ore	15	9	—	—	—	—
Congo Republic—						
Ore	1,225	—	—	—	—	—
Congo (Republic of)—						
Ore	3,937	5,643	8,568	7,189	2,603	—
Morocco—						
Ore	98,116	116,787	100,519	144,353	96,789	91,975
Unwrought	30,436	26,558	29,102	26,359	23,411	23,758
do. alloys	89	114	277	8	39	20
Scrap	151	44	—	86	32	—
South Africa—						
Ore	1,398	—	—	—	—	—
Unwrought	60	49	63	92	67	36
Semi-manufactures	7	47	1	4	2	—
South West Africa—						
Complex concentrates (Pb content)	81,097	73,692	61,192	60,542	57,386	69,115
Lead-vanadium concentrates	3,731	3,578	4,612	7,716	8,296	7,594
Tunisia—						
Ore	2	—	—	—	—	—
Unwrought (a)	22,486	23,126	19,463	16,446	18,745	14,993
Scrap	342	342	284	457	415	329
Greenland—						
Ore	8,327	9,435	10,654	10,602	12,567	2,290
Guatemala—						
Ore	18,024	14,565	2,070	8,901	15,139	2,929
Honduras—						
Ore and concentrates	5,680	5,486	7,632	5,407	7,847	8,438
Mexico—						
Ores and concentrates	4,878	2,343	1,654	3,505	3,897	4,344
Unwrought—						
Refined	153,329	141,170	133,913	129,487	148,155	121,557
Base bullion	942	1,721	1,562	11,806	17,385	10,408
Antimonial	11,827	5,738	12,138	1,440	1,578	335
Semi-manufactures	5,969	595	—	—	—	—
Red and white lead	8,600	8,775	12,168	14,721	18,151	22,356

(a) Including alloys.

EXPORTS OF LEAD, ETC. (cont.)

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
United States—						
Ore, mattes and base bullion (<i>Pb content</i>) ..	809	904	200	1,158	3,961	2,588
Unwrought (<i>a</i>) ..	3,874	1,213	2,460	1,756	1,904	1,882
Scrap ..	790	906	1,019	2,302	4,610	2,197
Semi-manufactures (<i>a</i>)	1,310	776	958	460	611	836
Red and white lead, etc.	3,514	3,076	2,838	1,891	2,056	1,714
Argentina—						
Ore ..	1,411	9	—	—	—	—
Unwrought ..	50	—	—	—	—	1
Bolivia—						
Ore, etc. (<i>Pb content</i>) ..	23,488	21,648	21,429	20,985	19,998	18,307
Unwrought ..	2,314	784	223	46	4	—
Chile—						
Ore and concentrates ..	4,607	4,883	695	2,645	865	<i>n.a.</i>
Colombia—						
Ore ..	7	597	952	1,107	—	—
Ecuador—						
Concentrates ..	186	269	692	979	410	<i>n.a.</i>
Peru—						
Ore and concentrates (<i>Pb content</i>) ..	55,603	70,574	58,443	57,051	64,481	125,901
Unwrought (<i>Pb content</i>)						
Refined ..	61,678	63,400	54,612	58,789	75,510	71,734
Unrefined ..	234	213	—	62	221	224
Burma—						
Ore ..	2,765	911	900	648	396	450
Unwrought ..	13,164	14,929	21,541	13,448	12,363	18,643
do. alloys ..	269	307	443	198	327	468
Iran (<i>b</i>)—						
Ore ..	26,040	22,182	23,875	12,298	20,938	<i>n.a.</i>
Japan—						
Unwrought (<i>a</i>) ..	50	93	66	69	73	68
Semi-manufactures (<i>a</i>)	70	225	131	145	813	339
Red and white lead ..	6	83	19	13	18	(<i>c</i>) 17
Korea (South)—						
Ore ..	<i>n.a.</i>	2,401	1,721	1,805	1,596	1,420
Philippine Republic—						
Ores and concentrates ..	727	772	177	—	—	—
Thailand—						
Ore ..	8,518	3,083	3,248	4,733	5,002	4,262
Turkey—						
Ore ..	—	—	3,199	2,323	2,313	2,411

(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	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore and concentrates (Pb content) (c) ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	22,303	22,939	26,647
Unwrought	157,780	162,419	175,242	208,820	179,865	180,282
Scrap (a)	4,544	1,812	2,098	2,671	886	2,135
Semi-manufactures (a) ..	137	248	216	507	475	203
Channel Islands—						
Unwrought and semi-manufactures (a) ..	94	109	119	131	150	139
Ghana—						
Unwrought (a) ..	270	371	277	236	52	40
Semi-manufactures (a) }					291	235
Kenya—						
Unwrought (a) ..	83	90	82	52	80	119
Semi-manufactures (a) ..	34	18	12	13	10	17
Mauritius—						
Unwrought (a) ..	—	21	1	—	10	6
Semi-manufactures (a) ..	66	69	43	r 30	37	34
Nigeria—						
Unwrought and semi-manufactures (a) ..	292	r 527	r 537	595	505	1,679
Rhodesia and Nyasaland—						
Semi-manufactures (a) ..	236	77	100	129	106	67
Red and white lead, etc. ..	51	103	164	190	137	127
Sierra Leone—						
Semi-manufactures (a) ..	15	10	13	32	92	45
Tanganyika—						
Unwrought (a) ..	41	17	7	5	11	21
Semi-manufactures (a) ..	12	16	7	8	7	10
Uganda—						
Unwrought (a) ..	12	19	24	48	10	24
Semi-manufactures (a) ..	11	10	2	4	6	9
Barbados—						
Unwrought (a) ..	13	—	25	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Semi-manufactures (a) ..	72	60	55	152	51	34
Jamaica—						
Unwrought (a) ..	120	r 115	41	1	80	110
Semi-manufactures (a) ..	123	135	r 127	118	71	53
Trinidad and Tobago—						
Unwrought (a) ..	4	—	6	13	14	2
Semi-manufactures (a) ..	71	45	46	96	39	46
Red and white lead, etc. ..	47	33	31	23	16	13
Canada—						
Unwrought	1,346	1,489	1,616	553	1,001	516
Scrap	73	109	221	137	83	41
Semi-manufactures, etc. ..	38	44	117	40	56	61
Red and white lead, etc. ..	1,388	1,524	1,346	1,090	1,008	921
British Guiana—						
Semi-manufactures (a) ..	42	25	—	22	29	<i>n.a.</i>
Ceylon—						
Unwrought (a) ..	148	163	97	62	100	156
Semi-manufactures (a) ..	35	16	33	(b) 1	59	91
Cyprus—						
Semi-manufactures (a) ..	38	32	54	33	125	8
Hong Kong—						
Unwrought (a) ..	93	123	336	228	310	515
Scrap	9	28	38	20	11	1
Semi-manufactures (a) ..	91	155	88	92	166	107

*See footnote on p. 181 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.

IMPORTS OF LEAD, ETC. (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES (cont.)						
India—						
Ore	102	110	130	(b) 100	(b) 79	(b) 30
Unwrought	13,831	21,105	23,034	(b) 23,694	(b) 27,781	(b) 33,088
do. alloys	333	310	642	(b) 376	(b) 284	(b) 346
Semi-manufactures (a)	341	65	85	(b) 177	(b) 405	(b) 96
Litharge, red and white lead, etc.	13	2	23	(b) 9	(b) 24	(b) 50
Malaya—						
Unwrought (a)	254	204	296	454	670	324
Semi-manufactures (a)	97	117	73	151	156	570
North Borneo—						
Semi-manufactures (a)	16	17	19	23	25	24
Pakistan—						
Ore	96	70	98	306	438	233
Unwrought (a)	255	247	588	547	1,448	n.a.
Semi-manufactures (a)	156	244	35	104	248	n.a.
Litharge, red and white lead, etc.	256	564	297	431	561	148
Australia (c)—						
Unwrought and semi-manufactures (a)	11	2	6	10	2,395	4,296
Red and white lead, etc.	41	28	97	86	162	137
Fiji—						
Semi-manufactures (a)	66	24	10	32	47	78
New Zealand—						
Unwrought (a)	4,613	5,218	3,347	4,337	5,215	4,379
Semi-manufactures (a)	4	5	4	6	6	111
Red and white lead, etc.	1,475	1,575	r 1,506	1,415	1,030	1,056
Irish Republic—						
Unwrought	219	258	419	359	497	493
Semi-manufactures (a)	87	230	130	106	77	44
OTHER COUNTRIES						
Austria—						
Ore	5,000	5,492	5,118	4,921	4,577	4,217
Unwrought (a)	6,041	8,169	9,367	12,666	10,277	12,647
Scrap	15	11	—	261	233	65
Semi-manufactures (a)	120	141	215	375	243	232
Belgium-Luxemburg E.U.—						
Ore	157,901	169,112	151,180	137,252	152,380	149,660
Unwrought	18,194	15,520	17,469	19,374	13,954	19,048
do. alloys	462	416	365	853	169	754
Scrap	1,307	796	1,109	1,185	4,599	3,522
Semi-manufactures (a)	31	126	417	795	508	632
Red and white lead, etc.	1,834	1,305	1,374	1,214	1,050	1,139
Denmark—						
Unwrought	16,906	22,250	23,052	16,620	18,878	15,412
do. alloys	87	47	949	307	107	308
Scrap	5,677	3,525	4,813	4,972	3,692	3,789
Semi-manufactures (a)	44	43	100	210	294	625
Red and white lead	710	741	1,838	1,985	1,988	1,637
Finland—						
Unwrought (a)	15,341	9,691	10,116	14,395	10,904	10,655
Semi-manufactures (a)	541	733	1,009	833	1,275	969
Red and white lead, etc.	514	558	582	471	443	548

(a) Including alloys.

(b) Years ended March 31 following that stated.

(c) Years ended June 30 of that stated.

IMPORTS OF LEAD, ETC. (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES (cont.)						
France—						
Ore	98,961	105,988	102,495	99,342	90,894	96,096
Unwrought	49,171	48,895	44,364	55,713	63,602	63,725
do. alloys	1,519	1,442	810	1,220	1,858	2,602
Scrap	3,798	5,562	3,675	4,337	3,034	2,313
Semi-manufactures (a)	79	83	244	66	101	164
Red and white lead, etc.	584	418	1,613	1,978	2,110	2,511
Germany (Federal)—						
Ore	95,918	127,821	140,707	151,751	144,394	142,462
Unwrought (a)	43,109	47,089	66,049	86,404	75,330	98,382
Scrap (a)	1,239	478	1,050	1,028	1,243	1,265
Semi-manufactures (a)	—	41	98	198	470	1,214
Red and white lead, etc.	698	1,919	2,865	3,953	4,419	4,429
Greece—						
Unwrought	481	721	667	255	453	1,402
Hungary—						
Unwrought	7,298	7,712	8,185	10,540	11,020	10,286
Iceland—						
Unwrought	101	141	165	176	224	278
Semi-manufactures (a)	24	24	29	27	32	30
Red and white lead ..	13	22	28	24	21	11
Italy—						
Ore	607	255	77	5,191	8,824	8,027
Unwrought (a)	14,709	13,357	16,128	24,560	38,608	47,120
Scrap	3,803	4,216	2,842	7,242	13,194	20,298
Semi-manufactures (a)	18	36	67	894	2,862	4,636
Red and white lead ..	206	305	373	427	642	2,158
Netherlands—						
Ore	19	12	4	3	1	3
Unwrought	36,716	31,140	35,557	33,291	41,707	39,738
do. alloys	7,459	2,065	9,300	11,932	13,853	10,007
Scrap (a)	3,952	3,121	2,238	2,795	1,287	1,178
Semi-manufactures (a)	1,505	1,004	2,005	2,191	2,592	2,322
Red and white lead ..	5,698	5,309	5,494	6,014	5,952	6,545
Norway—						
Unwrought	9,596	9,551	8,177	8,606	8,454	7,990
do. alloys	1,091	1,088	1,378	1,479	1,224	1,381
Semi-manufactures (a)	809	937	848	1,014	1,083	1,334
Red and white lead ..	508	532	659	718	700	714
Poland—						
Unwrought	n.a.	6,822	14,294	10,932	14,800	n.a.
Portugal—						
Unwrought (a)	4,677	6,276	5,429	5,708	6,593	6,385
Scrap	95	80	56	27	37	47
Semi-manufactures (a)	23	1	75	73	12	4
Red and white lead, etc.	152	150	116	166	172	145
Sweden—						
Unwrought	14,518	11,185	9,384	9,474	8,688	11,782
do. alloys	n.a.	n.a.	802	1,405	1,264	893
Scrap	1,132	121	142	375	325	307
Semi-manufactures (a)	1,360	1,426	2,066	2,068	1,619	2,333
Red and white lead ..	1,506	1,103	1,044	1,249	1,402	1,711
Switzerland—						
Unwrought	15,604	17,519	16,971	18,673	21,917	23,738
Semi-manufactures ..	496	534	570	414	683	677
Red and white lead ..	746	653	604	580	715	631
U.S.S.R.—						
Unwrought	27,300	29,700	39,100	39,100	38,900	25,700

(a) Including alloys.

IMPORTS OF LEAD, ETC. (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Algeria—						
Ore	38	45	35	54	<i>n.a.</i>	<i>n.a.</i>
Unwrought	2,221	2,377	3,862	3,940	<i>n.a.</i>	<i>n.a.</i>
do. alloys	245	254	337	251	<i>n.a.</i>	<i>n.a.</i>
Scrap	—	—	—	20	<i>n.a.</i>	<i>n.a.</i>
Semi-manufactures (a)	516	555	658	739	<i>n.a.</i>	<i>n.a.</i>
Red and white lead, etc.	128	161	147	197	<i>n.a.</i>	<i>n.a.</i>
Angola—						
Semi-manufactures	20	7	13	8	59	59
Red and white lead	54	34	52	53	38	39
Congo Republic—						
Unwrought and scrap	78	59	58	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Red and white lead	131	102	108	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Egypt—						
Unwrought and scrap	167	768	3,026	4,643	4,427	5,993
Semi-manufactures	23	31	3	57	40	37
Red and white lead	355	1,062	822	718	678	1,757
Malagasy Republic—						
Unwrought (a)	96	129	79	31	66	81
Semi-manufactures (a)	38	18	25	27	21	58
Red and white lead	46	43	16	17	11	18
Morocco—						
Semi-manufactures (a)	121	89	65	29	58	86
Red and white lead	69	100	84	117	152	160
Mozambique—						
Semi-manufactures (a)	77	81	96	150	132	<i>n.a.</i>
Red and white lead	15	9	45	25	26	<i>n.a.</i>
South Africa—						
Unwrought	14,153	15,551	13,026	12,066	11,922	13,431
Semi-manufactures	76	136	117	22	27	75
Red and white lead	171	240	149	154	106	89
Tunisia—						
Ore	1	1	1	3	3	1
Red and white lead, etc.	39	27	85	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Costa Rica—						
Unwrought (a)	40	22	68	39	23	54
Cuba—						
Unwrought	317	203	345	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Semi-manufactures	219	238	479	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Mexico—						
Unwrought	17	10	12	11	9	7
United States—						
Ore, matte and flue dust						
(Pb content)	209,479	212,165	121,898	r 122,592	122,196	119,644
Bullion and base bullion						
(Pb content)	23	371	31	262	211	11
Unwrought (Pb content)	287,239	314,071	234,493	r 190,488	220,828	230,237
do. alloys (Pb						
content)	6,212	5,870	7,831	r 4,846	6,405	7,626
Scrap (Pb content)	6,764	7,696	7,051	4,998	3,477	1,856
Semi-manufactures	5,283	2,344	3,221	2,549	2,540	2,032
Red and white lead, etc.	7,591	7,589	11,538	13,755	15,821	16,530
Brazil—						
Unwrought	19,967	11,653	11,978	8,464	13,283	7,953
do. alloys	457	86	38	112	28	
Red and white lead	405	656	636	612	1,008	354
Chile—						
Unwrought	262	391	1,200	687	296	<i>n.a.</i>
Bars and sheets	258	82	342	43	<i>n.a.</i>	<i>n.a.</i>
Red and white lead	102	141	260	152	<i>n.a.</i>	<i>n.a.</i>

(a) Including alloys.

IMPORTS OF LEAD, ETC. (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Colombia—						
Unwrought (a) ..	1,109	1,610	1,267	1,441	1,204	228
Semi-manufactures (a) ..	167	59	130	113	97	11
Red and white lead ..	826	497	356	403	514	767
Ecuador—						
Unwrought	108	91	139	<i>n.a.</i>	193	152
Red and white lead ..	210	38	101	<i>n.a.</i>	121	93
Peru—						
Semi-manufactures (a) ..	50	37	44	39	103	48
Red and white lead ..	225	122	73	62	52	40
Uruguay—						
Unwrought	2,085	1,683	2,280	1,866	<i>n.a.</i>	<i>n.a.</i>
Red and white lead, etc.	236	90	277	298	<i>n.a.</i>	<i>n.a.</i>
Venezuela—						
Unwrought	2,148	1,102	1,515	1,104	1,861	1,855
Red and white lead ..	862	912	1,611	1,525	1,496	1,575
Burma—						
Semi-manufactures (a) ..	125	50	152	56	36	<i>n.a.</i>
Formosa—						
Unwrought (a) ..	989	1,755	1,218	1,423	1,205	1,873
Semi-manufactures (a) ..	143	158	37	30	50	24
Red and white lead, etc.	122	136	141	141	95	91
Indonesia—						
Unwrought and scrap ..	490	361	1,527	1,271	3,338	<i>n.a.</i>
Semi-manufactures (a) ..	732	179	143	288	596	<i>n.a.</i>
Red and white lead ..	598	402	293	383	797	<i>n.a.</i>
Iraq—						
Semi-manufactures ..	31	220	70	170	<i>n.a.</i>	<i>n.a.</i>
Israel—						
Unwrought	327	857	883	658	824	1,314
Semi-manufactures ..	66	76	111	116	222	100
Red and white lead ..	449	635	<i>n.a.</i>	480	355	538
Japan—						
Ore	46,911	26,694	37,786	41,332	68,090	38,005
Unwrought	39,547	3,340	2,027	22,224	43,590	25,781
Scrap	1,430	1,546	1,128	1,062	856	781
Semi-manufactures (a) ..	166	119	11	1	3	4
Red and white lead ..	2	1	2	1	—	1
Lebanon—						
Unwrought	258	213	339	236	398	<i>n.a.</i>
Semi-manufactures (a) ..	185	107	190	159	273	<i>n.a.</i>
Philippine Republic—						
Unwrought (a) ..	865	1,229	1,203	1,312	1,638	3,577
Semi-manufactures (a) ..					490	364
Red and white lead ..					1,390	473
Syria—						
Unwrought	438	297	282	255	664	<i>n.a.</i>
Red and white lead ..	51	58	111	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Thailand—						
Unwrought (a) ..	395	515	1,026	701	643	1,023
Semi-manufactures (a) ..	193	115	96	103	66	48
Turkey—						
Unwrought (a) ..	869	330	2,328	1,690	549	2,103
Semi-manufactures (a) ..	342	11	184	227	296	99
Red and white lead ..	220	684	1,054	826	94	450

(a) Including alloys.

LITHIUM MINERALS
PRODUCTION OF LITHIUM MINERALS

Long tons

Producing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Southern Rhodesia—						
Amblygonite	109	1,638	<i>n.a.</i>	—	77	31
Eucryptite	50	355	<i>n.a.</i>	1,191	1,678	773
Lepidolite	83,522	57,767	<i>n.a.</i>	13,826	21,462	18,967
Petalite	8,870	11,755	<i>n.a.</i>	56,818	24,730	19,379
Spodumene	4,999	4,677	<i>n.a.</i>	6,866	1,453	1,336
Uganda—						
Amblygonite	5	—	—	—	23	<i>n.a.</i>
Canada—						
Lithium minerals (<i>Li₂O content</i>)	2,295	1,720	1,230	91	239	216
Australia—						
Petalite	—	68	—	1	96	} 94
Amblygonite	—	—	—	15	24	
Spodumene	—	—	—	—	5	
OTHER COUNTRIES						
Spain—						
Amblygonite	6	—	—	25	17	<i>n.a.</i>
Congo Republic—						
Spodumene (<i>a</i>)	1	—	—	—	—	—
Mozambique—						
Lepidolite	338	86	89	<i>n.a.</i>	151	270
Rwanda and Burundi—						
Amblygonite	2,070	10	2,648	2,294	1,655	321
South Africa—						
Amblygonite	27	—	9	154	232	1,360
South West Africa—						
Amblygonite	478	477	216	143	121	126
Lepidolite	787	931	1,936	868	1,266	1,590
Petalite	4,754	6,612	2,488	3,683	2,268	899
Argentina—						
Spodumene	20	156	167	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Brazil—						
Amblygonite (<i>a</i>)	493	—	527	49	—	—
Spodumene (<i>a</i>)	—	157	418	—	—	148
Surinam—						
Amblygonite	—	—	—	—	424	<i>n.a.</i>

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

(*a*) Exports.

EXPORTS OF LITHIUM MINERALS

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Rhodesia and Nyasaland— Lithium minerals ..	34,012	149,125	51,697	114,219	29,056	29,203
OTHER COUNTRIES						
Congo Republic— Spodumene	1	—	—	—	—	—
Mozambique— Lepidolite	49	157	—	<i>n.a.</i>	151	<i>n.a.</i>
Rwanda and Burundi— Amblygonite	1,129	1,632	2,943	1,476	<i>n.a.</i>	<i>n.a.</i>
South Africa— Lithium minerals ..	—	—	—	—	50	916
South West Africa— Amblygonite	828	627	117	—	68	130
Lepidolite	1,341	358	1,609	638	822	1,318
Petalite	5,765	4,704	1,261	1,753	2,104	310
Brazil— Amblygonite	493	—	527	49	—	—
Spodumene	—	157	418	—	—	148

IMPORTS OF LITHIUM MINERALS*

Long tons

Importing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom (a) ..	4,800	6,000	5,100	10,500	4,000	3,400
OTHER COUNTRIES						
France (a)	5,400	500	400	200	—	—
Germany (Federal) ..	4,290	4,882	7,730	10,093	9,814	10,307
Netherlands (a)	3,200	5,800	6,400	4,200	5,100	3,000
United States (a) (b) ..	26,100	139,700	38,900	92,000	18,000	19,000
Japan (a)	30	600	1,400	3,000	2,000	4,000

*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.

(b) Official figures of United States imports for consumption, available from 1960 onwards, are as follows (long tons): 1960—45,624; 1961—23,954; 1962—27,419.

MAGNESITE AND DOLOMITE
PRODUCTION OF MAGNESITE AND DOLOMITE

Long tons

Producing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Dolomite, crude (a) ..	2,700,000	2,600,000	2,800,000	3,100,000	2,800,000	2,700,000
Kenya—						
Magnesite, crude ..	105	492	2,808	30	1,723	—
Southern Rhodesia—						
Magnesite, crude ..	2,598	—	—	7,171	12,394	10,375
Dolomite ..	1,225	593	423	205	—	—
Tanganyika—						
Magnesite, crude (c) ..	254	301	105	112	42	—
Canada—						
Magnesitic dolomite (b) ..	£1,136,678	£926,433	£1,132,435	£1,204,194	£1,079,395	£1,131,564
India—						
Magnesite, crude ..	88,885	102,590	155,472	153,862	206,431	213,938
Dolomite ..	140,961	174,666	320,113	639,417	710,784	856,294
Pakistan—						
Magnesite ..	21	—	396	434	161	196
Australia—						
Magnesite, crude ..	83,473	69,391	60,586	62,166	98,795	60,614
Dolomite ..	192,103	138,832	160,084	190,868	191,624	175,592
New Zealand—						
Magnesite, crude ..	602	1,200	n.a.	795	581	635
Dolomite ..	2,784	3,052	3,165	3,390	3,550	5,748
OTHER COUNTRIES						
Austria—						
Magnesite—						
Crude ..	1,154,078	1,201,906	1,182,239	1,599,735	1,770,273	1,582,022
Caustic (d) ..	98,364	98,688	101,668	118,782	127,698	130,450
do. powder (d) ..	38,872	38,132	39,898	46,440	51,573	47,925
Dead-burned (d) ..	418,263	413,803	376,698	491,642	533,760	476,524
Bricks (d) ..	236,094	227,350	183,237	256,074	290,081	270,260
Belgium—						
Dolomite—						
Crude ..	319,981	363,397	378,080	443,210	481,940	576,760
Calcined ..	246,804	241,123	248,430	302,440	294,910	291,470
Bulgaria—						
Magnesite, crude ..	(e) 138,000	(e) 147,000	(e) 147,000	(e) 147,000	(e) 147,000	n.a.
Finland—						
Dolomite ..	n.a.	n.a.	n.a.	n.a.	93,220	90,800
France—						
Dolomite, crude ..	530,272	584,492	686,241	754,843	757,558	830,000
Greece—						
Magnesite—						
Crude ..	46,778	87,270	110,327	184,331	146,047	(e) 147,000
Caustic (d) ..	18,622	23,982	23,218	40,457	46,343	n.a.
Dead-burned (d) ..	—	8,089	21,599	25,826	23,059	n.a.
Hungary—						
Dolomite ..	239,410	303,470	274,980	330,189	447,889	n.a.
Italy—						
Magnesite, crude ..	7,600	5,804	6,752	5,879	6,677	8,281
Dolomite—						
Metallurgical ..	44,219	57,289	66,596	70,878	60,594	n.a.
Refractory, etc. ..	405,521	400,635	427,478	r 482,009	640,583	n.a.
Luxemburg—						
Dolomite, calcined ..	8,299	8,597	10,000	7,393	—	—

(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	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Norway—						
Dolomite	115,640	144,922	154,144	208,882	209,839	204,912
Poland—						
Magnesite, crude	16,830	13,779	16,239	21,357	26,672	(d) 27,000
Portugal—						
Dolomite	1,673	2,087	2,400	2,600	2,707	3,740
Spain—						
Magnesite	36,120	34,323	39,793	47,535	81,877	(d) 79,000
Sweden—						
Dolomite, crude	53,600	43,557	50,440	r 53,293	54,900	n.a.
Yugoslavia—						
Magnesite, crude	208,914	219,672	240,939	247,869	268,752	367,465
South Africa—						
Magnesite, crude	31,620	71,607	52,574	59,637	60,475	91,386
United States—						
Magnesite—						
Crude	605,794	440,162	530,631	445,114	538,979	439,706
Caustic (b) (e)	54,299	39,840	48,297	58,978	71,493	104,692
Dead-burned (b) (e)	417,610	370,423	462,447	451,706	534,794	486,854
Dolomite, crude (c)	4,758,000	n.a.	n.a.	n.a.	n.a.	n.a.
Argentina—						
Dolomite	14,684	21,583	n.a.	n.a.	n.a.	n.a.
Brazil—						
Magnesite	n.a.	47,425	47,659	62,315	75,491	(d) 74,000
Dolomite	120,855	127,382	152,905	r 222,574	267,245	412,361
Colombia—						
Magnesite	n.a.	n.a.	n.a.	n.a.	n.a.	100
Dolomite	n.a.	n.a.	n.a.	2,000	2,000	2,638
Peru—						
Dolomite	34	747	n.a.	696	870	963
Uruguay—						
Dolomitic limestone	10,586	671	927	975	11,145	692
Formosa—						
Dolomite	6,593	10,747	14,250	14,771	21,832	29,366
Iran (a)—						
Magnesite	n.a.	1,959	2,864	2,900	500	n.a.
Japan—						
Dolomite	1,166,470	1,380,859	1,309,430	1,675,402	1,844,771	1,770,000
Philippine Republic—						
Dolomite	—	—	—	12	7,137	4,916
Turkey—						
Magnesite	1,284	640	—	15	2,155	9,586
New Caledonia—						
Magnesite	—	7,514	2,969	—	—	1,157

Magnesite is known to have been produced in 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) Including dolomitic lime calculated as raw stone.

(d) United States Bureau of Mines' estimate.

(e) Sold or used by producers.

PRODUCTION OF MAGNESIUM

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom (a) ..	3,411	2,399	2,033	3,687	5,200	3,700
Canada	7,487	6,068	5,448	6,508	6,817	7,353
OTHER COUNTRIES						
France	1,565	1,694	1,730	2,109	2,042	2,135
Germany (Federal) (a) ..	295	590	490	(b) 295	(b) 390	(b) 390
Italy	3,723	r 4,161	4,435	5,273	5,507	5,500
Norway	8,486	9,047	9,435	10,154	14,302	14,352
Poland	134	(b) 147	(b) 147	n.a.	n.a.	n.a.
U.S.S.R. (c)	16,800	17,300	20,000	25,000	31,000	31,000
United States	72,556	26,871	27,708	35,777	36,379	61,567
Japan	421	987	1,539	2,110	2,212	2,054
WORLD'S TOTAL* ..	115,000	69,000	73,000	91,000	104,000	128,000

*Excluding magnesium known to have been produced in China.

(a) Including re-melt alloys.

(c) "Metallgesellschaft" estimate.

(b) United States Bureau of Mines' estimate.

EXPORTS OF MAGNESITE, ETC.*

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Magnesium and alloys..	4,284	3,464	2,649	2,152	1,807	2,013
Magnesium compounds	17,603	15,952	36,476	16,864	20,801	21,397
Rhodesia and Nyasaland—						
Crude and calcined ..	2,255	—	—	6,195	12,057	8,826
Tanganyika—						
Crude	254	301	105	112	42	—
Canada—						
Magnesium	(£1,692,377)	(£1,052,011)	(£1,442,226)	(£1,118,531)	5,384	5,867
India—						
Crude and calcined ..	21,443	19,585	27,548	(c) 29,071	(c) 30,956	(c) 31,270
Chloride	16	173	49	(c) 8	(c) 41	(c) 211
Australia (b)—						
Crude and calcined ..	73	60	32	53	240	2,629
Sulphate	10	8	7	—	—	—
OTHER COUNTRIES						
Austria—						
Crude	549	569	599	728	593	761
Caustic	82,196	80,420	87,043	95,230	95,494	95,074
Dead-burned	150,413	130,754	169,487	212,142	234,126	185,998
Bricks	201,299	184,846	151,000	218,000	251,815	231,187
Dolomite	19,252	23,820	5,500	12,969	15,654	15,234
Belgium-Luxemburg						
E.U.—						
Crude	659	5,188	5,029	394	10	—
Calcined	141	144	86	55	83	25
Carbonate	1	2	12	4	—	—
Chloride	4	16	2	1	3	1
Sulphate	156	14	66	74	48	15
Dolomite, crude ..	62,493	90,651	164,206	184,212	163,686	212,206
do. ground	10,126	12,371	30,824	(d)	(d)	(d)
do. calcined	143,990	138,548	132,482	150,174	164,296	166,637
Czechoslovakia	75,000	85,000	103,000	122,000	114,000	116,000
France—						
Crude and calcined ..	259	468	84	108	778	810
Magnesium metal (a)	44	61	51	59	93	62
Carbonate	493	401	581	636	714	823
Chloride	875	1,070	392	1,937	1,440	2,662
Oxide and hydroxide ..	240	276	567	819	934	1,589
Sulphate	308	194	111	74	102	119
Dolomite, crude ..	11,697	6,009	8,742	12,326	15,347	17,085
do. calcined	3,606	4,348	3,395	4,387	4,685	5,835
Germany (Federal)—						
Crude and calcined ..	4,595	2,490	3,685	2,143	4,135	2,484
Carbonate	509	411	444	629	338	358
Chloride	15,255	13,298	15,342	17,838	19,233	33,807
Oxide and hydroxide ..	332	457	694	874	938	1,104
Sulphate	44,373	44,375	48,461	47,686	50,596	52,651
Dolomite	119,079	118,225	89,385	67,118	69,658	83,540
Kieserite	64,025	63,226	78,396	89,552	126,538	159,845
Germany (East)—						
Sulphate	21,574	19,874	19,408	20,083	21,110	20,309
Greece—						
Crude	16,450	22,390	16,044	18,336	18,166	23,065
Calcined	29,810	32,970	51,458	64,275	75,464	79,637

* Magnesite unless otherwise stated.

(a) Including alloys and scrap.

(c) Years ended March 31 following that stated.

(b) Years ended June 30 of that stated.

(d) Included with crude and calcined.

EXPORTS OF MAGNESITE, ETC. (cont.)

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Italy—						
Crude	28	9	7	90	103	101
Caustic	13	8	22	133	74	99
Magnesium metal including alloyed ..	2,924	3,259	4,379	4,300	4,369	4,469
Carbonate	53	68	136	155	106	127
Chloride	58	3	6	22	22	16
Oxide	185	154	161	294	317	253
Dolomite, crude ..	834	948	1,799	2,109	9,897	11,037
do. calcined ..	3,296	3,998	2,749	5,849		
Netherlands—						
Crude	357	532	369	628	722	775
Calcined	13,879	11,574	13,710	16,819	23,942	30,100
Chloride	346	402	360	422	505	452
Sulphate	978	1,082	964	836	889	374
Norway—						
Crude	—	—	—	—	100	—
Magnesium metal ..	<i>n.a.</i>	<i>n.a.</i>	10,987	12,768	12,157	14,526
Oxide	184	79	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Dolomite, crude ..	<i>n.a.</i>	<i>n.a.</i>	37,876	43,053	45,782	58,834
Poland—						
Dolomite	<i>n.a.</i>	1,236	1,239	1,716	3,692	<i>n.a.</i>
Spain—						
Crude and calcined ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	14,715	7,733
Dolomite, crude ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	7,304	6,036
Sweden—						
Crude and calcined ..	224	586	—	10	291	196
Dolomite	<i>n.a.</i>	<i>n.a.</i>	4,309	4,340	5,286	5,793
U.S.S.R.—						
Magnesium metal ..	2,400	1,600	1,000	1,300	1,800	1,900
Yugoslavia—						
Crude	46	—	—	426	2,628	486
Ground and dead-burned ..	57,118	51,213	57,046	62,262	55,718	61,787
Bricks	4,695	6,409	7,922	10,114	10,347	13,651
South Africa—						
Crude and calcined ..	55	18	—	75	—	10
Mexico—						
Crude	—	—	—	346	856	49
United States—						
Dead-burned	24,250	47,447	77,008	82,310	109,501	64,166
Magnesium metal (a) ..	1,088	184	1,429	3,988	5,500	5,737
Brazil	1,968	1,240	207	645	3,701	4,796
Peru—						
Sulphate	300	—	—	—	—	—
Japan—						
Dolomite	1,663	2,301	2,223	1,056	2,037	1,403
Magnesium metal ..	155	767	91	1	—	50
Carbonate	500	621	955	1,288	2,109	2,438
Chloride and sulphate ..	3,128	3,046	889	316	346	(b) 57

(a) Including alloys and scrap.

(b) Sulphate only.

IMPORTS OF MAGNESITE, ETC.*

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Crude and calcined ..	68,900	29,145	19,128	r 94,652	151,454	46,833
Magnesium	3,322	2,044	3,491	4,391	5,480	5,516
Chloride	8,847	8,518	6,097	7,636	5,012	4,930
Canada—						
Magnesium alloys ..	(£103,262)	(£93,688)	(£101,495)	(£123,731)	(£150,252)	(£59,815)
Calcined and dead-burned	10,456	13,703	17,958	24,133	22,125	24,613
Carbonate and oxide ..	2,190	1,536	2,145	1,223	1,069	780
Sulphate	2,284	2,190	2,430	2,173	2,314	2,505
Bricks	(£160,794)	(£120,083)	(£162,590)	(£252,179)	(£173,117)	(£153,600)
Other salts	3,881	4,448	1,996	1,162	1,674	1,889
Trinidad and Tobago—						
Crude	—	—	12	50	49	39
Hong Kong—						
Crude	—	—	256	158	73	109
India—						
Crude	1,179	61	120	(b) 4	(b) —	(b) —
Calcined	202	855	—	(b) —	(b) —	(b) —
Magnesium metal ..	40	79	43	(b) 76	(b) 85	(b) 147
Carbonate	1,193	873	1,119	(b) 1,206	(b) 782	(b) 676
Chloride	1	1	1	(b) 2	(b) 21	(b) —
Sulphate	1	—	—	(b) —	(b) —	(b) —
Oxides	52	33	72	(b) 50	(b) 87	(b) 43
Other salts	320	18	46	(b) 37	(b) 22	(b) 26
Malaya—						
Crude	36	16	14	34	24	21
Pakistan—						
Chloride	74	90	3	47	131	32
Sulphate	234	113	215	428	129	12
Other salts	291	397	355	179	n.a.	n.a.
Australia (a)—						
Crude and calcined ..	2,535	2,576	7,288	8,743	12,815	12,558
Magnesium metal and powder	25	92	97	90	148	125
Oxide	116	154	158	304	222	269
Carbonate	138	148	159	143	164	135
Chloride	496	329	332	—	—	—
Sulphate	358	384	202	248	—	—
New Zealand—						
Crude	48	51	88	26	46	302
Sulphate	894	r 822	660	848	974	689
Other salts	270	r 229	249	309	353	n.a.
Irish Republic—						
Magnesium salts ..	383	366	449	344	349	378
OTHER COUNTRIES						
Austria—						
Crude	5,923	6,061	28	11	2,148	4,176
Magnesium metal ..	n.a.	n.a.	270	372	333	318
Chloride	2,830	2,427	2,023	2,052	1,840	2,481
Dolomite	1,776	1,433	2,012	2,250	2,246	1,982
Kieserite	8,691	8,563	n.a.	n.a.	n.a.	n.a.
Belgium-Luxemburg						
E.U.—						
Crude	981	1,082	2,611	873	197	406
Calcined	2,297	2,189	4,534	3,057	4,299	3,545
Bricks	14,214	13,848	13,565	17,235	n.a.	n.a.

* Magnesite unless otherwise stated.

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

IMPORTS OF MAGNESITE, ETC. (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Belgium-Luxemburg						
<i>E.U.(cont.)—</i>						
Magnesium metal	329	510	321	428	370	510
Carbonate	508	276	330	225	243	249
Chloride	917	773	1,389	1,761	382	458
Oxide and hydroxide	331	285	390	519	407	455
Sulphate	2,434	2,483	2,511	3,640	1,727	1,807
Dolomite, crude	5,274	1,832	1,936	5,524	7,028	8,519
do. ground	30	315	143	(b)	(b)	(b)
do. calcined	6,922	5,261	4,437	6,541	5,863	5,292
Denmark—						
Crude	1,569	1,566	2,071	2,513	2,419	2,506
Carbonate	141	218	112	104	109	90
Chloride	439	538	567	537	831	486
Oxide	104	120	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sulphate	1,338	1,520	1,149	1,409	1,474	1,754
Dolomite	11,204	11,935	12,474	12,520	11,231	17,457
Finland—						
Crude and calcined	899	413	753	906	1,140	1,862
Bricks	2,607	2,698	1,999	2,920	2,896	3,875
Oxide	20	58	156	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Carbonate	105	64	139	87	105	88
Chloride	963	273	370	222	411	214
Sulphate	1,883	109	152	215	239	215
France—						
Crude	2,918	5,604	3,212	4,553	3,660	4,456
Calcined	17,611	24,279	17,944	20,131	23,232	23,729
Bricks	44,829	47,201	25,953	29,686	<i>n.a.</i>	<i>n.a.</i>
Magnesium metal (a)	1,212	746	134	467	456	1,176
Carbonate	166	146	230	263	270	217
Chloride	256	174	207	42	40	96
Oxide and hydroxide	113	114	261	374	422	420
Sulphate	1,586	2,326	2,649	2,371	2,103	2,765
Dolomite, crude	17,423	28,511	16,819	18,157	29,999	47,669
do. calcined	176,013	176,282	139,570	144,775	135,460	139,253
Germany (Federal)—						
Crude	1,283	2,851	1,634	1,812	1,942	1,371
Caustic	97,965	88,156	100,145	108,902	108,487	110,152
Dead-burned	72,593	69,270	55,103	82,277	97,318	99,274
Magnesium metal (a)	11,936	13,744	17,763	26,301	25,980	29,538
Carbonate	171	191	295	429	291	210
Chloride	8	4	12	4	—	33
Oxide and hydroxide	195	318	507	1,043	2,061	3,170
Dolomite	23,024	23,607	18,108	23,298	103,213	59,155
Hungary—						
Dead-burned	35,309	45,629	42,907	49,468	58,605	68,226
Italy—						
Crude	4,470	4,275	3,136	8,069	11,328	14,913
Caustic	13,315	13,976	16,219	27,160	41,434	32,005
Chloride	2,704	3,385	3,001	3,352	3,399	3,917
Oxide	38	49	154	173	205	271
Sulphate	4,499	2,514	2,135	1,330	1,268	1,807
Netherlands—						
Crude	543	1,114	1,144	2,268	2,242	1,910
Calcined	15,525	13,382	15,357	22,629	31,488	34,188
Bricks	14,426	15,804	10,884	12,568	<i>n.a.</i>	<i>n.a.</i>
Magnesium metal	134	176	175	189	154	309
Carbonate	506	474	508	533	441	455
Oxide and hydroxide	92	108	246	287	343	238
Sulphate	5,173	5,426	5,340	5,365	6,232	7,122
Chloride	2,046	1,785	1,882	2,092	2,264	2,386

(a) Including alloys and scrap.

(b) Included with crude and calcined.

IMPORTS OF MAGNESITE, ETC. (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Netherlands—						
Dolomite, crude ..	83,590	107,285	180,379	190,471	157,367	204,108
do. calcined ..	40,440	38,677	42,407	43,099	47,007	45,894
do. ground ..	2,256	1,330	68	(a)	(a)	(a)
Kieserite ..	11,240	14,225	17,654	n.a.	n.a.	n.a.
Norway—						
Crude and calcined ..	367	368	383	2,948	4,864	7,547
Chloride ..	349	377	291	305	473	14,061
Sulphate ..	n.a.	n.a.	773	2,974	5,754	8,445
Dolomite ..	1,929	826	3,089	3,043	3,414	3,695
Poland—						
Calcined and caustic ..	n.a.	50,900	62,600	59,200	78,200	n.a.
Magnesium metal ..	n.a.	83	83	100	210	n.a.
Chloride ..	n.a.	5,024	5,614	5,474	5,896	n.a.
Portugal—						
Crude and calcined ..	378	613	565	200	673	1,066
Carbonate ..	96	85	118	105	111	76
Chloride ..	84	148	116	n.a.	n.a.	n.a.
Oxide ..	509	519	512	508	271	29
Sulphate ..	1,575	1,149	1,344	1,581	1,141	1,240
Sweden—						
Crude and calcined ..	1,473	1,504	1,385	2,397	5,369	4,417
Bricks ..	13,784	13,590	14,777	21,777	24,350	22,619
Magnesium metal ..	283	320	445	404	411	487
Carbonate ..	172	218	244	332	206	223
Chloride ..	924	1,137	1,647	1,609	1,243	1,243
Sulphate ..	1,284	1,191	1,515	1,924	2,443	2,302
Dolomite ..	n.a.	n.a.	9,683	11,600	22,303	24,488
Switzerland—						
Magnesium metal ..	n.a.	n.a.	n.a.	417	465	689
Calcined ..				2,699	3,467	3,933
Carbonate ..				186	205	184
Chloride ..	n.a.	n.a.	n.a.	4,448	4,991	5,596
Sulphate ..				1,291	1,327	1,632
Dolomite, calcined ..				7,198	7,854	8,094
U.S.S.R.—						
Crude ..	29,600	—	—	(b) 15,000	(b) 55,100	(b) 69,200
Yugoslavia—						
Bricks ..	65	49	66	134	5	10
Magnesium metal ..	141	231	179	292	574	153
Algeria—						
Calcined ..	—	5	5	8	n.a.	n.a.
Dolomite ..	2,187	2,468	2,126	2,489	n.a.	n.a.
Congo Republic—						
Oxide ..	615	901	1,037	n.a.	n.a.	n.a.
Sulphate ..	438	530	262	n.a.	n.a.	n.a.
Chloride ..	10	19	30	n.a.	n.a.	n.a.
Egypt—						
Magnesite and dolomite ..	4,304	3,587	1,454	6,309	3,663	4,551
Sulphate ..	517	727	785	494	197	696
Morocco—						
Chloride ..	202	152	4	46	3	204
Sulphate ..	178	26	35	92	147	123
South Africa—						
Carbonate ..	3,495	166	164	6,949	13,285	10,214
Chloride ..	217	196	241	179	184	125
Sulphate ..	1,489	2,057	1,608	1,677	1,379	1,321
Cuba—						
Oxide ..	155	25	28	n.a.	n.a.	n.a.
Carbonate ..	35	203	43	n.a.	n.a.	n.a.
Sulphate ..	630	723	512	n.a.	n.a.	n.a.

(a) Included with crude and calcined.

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

IMPORTS OF MAGNESITE, ETC. (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Mexico—						
Crude	381	284	3,548	4,120	3,418	8,222
Magnesium metal	468	319	346	350	322	357
Oxide	678	421	704	605	1,535	1,139
Sulphate	91	131	197	173	286	263
United States—						
Crude	—	10	30	18	52	1,493
Calcined	5,030	2,139	4,730	3,689	3,977	6,908
Dead-burned	66,968	70,783	134,199	102,346	46,437	87,283
Bricks	9,851	10,185	14,987	13,920	11,878	13,431
Magnesium metal, etc.	877	480	529	358	897	2,088
Oxide	368	317	244	238	221	163
Carbonate, precipitated	274	291	314	309	305	355
Chloride	385	612	848	1,048	903	1,316
Sulphate	9,437	6,846	11,027	9,037	8,956	8,301
do. calcined	29,731	29,728	28,500	24,255	44,803	<i>n.a.</i>
Kieserite	4,020	5,049	5,917	12,561	6,890	45,366
Argentina—						
Crude	<i>n.a.</i>	<i>n.a.</i>	316	1,124	2,549	2,718
Carbonate	436	214	852	346	370	347
Chloride	174	—	—	183	100	50
Oxide	3	—	2	12	9	31
Brazil—						
Crude	—	38	—	—	—	—
Magnesium metal	10	65	43	56	91	601
Carbonate	430	194	379	515	205	11
Chloride	56	8	107	43	61	140
Oxide	98	45	69	77	92	87
Sulphate	1,022	327	469	443	1,015	552
Chile—						
Crude	49	60	36	51	<i>n.a.</i>	<i>n.a.</i>
Calcined	2,465	847	1,952	2,628	<i>n.a.</i>	<i>n.a.</i>
Sulphate	121	1	122	2	<i>n.a.</i>	<i>n.a.</i>
Dolomite, crude	18,208	5,634	—	39	<i>n.a.</i>	<i>n.a.</i>
do. calcined	—	10,476	1,508	5,333	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Crude and calcined	2,112	4,241	386	25	48	19
Carbonate	8	246	15	14	114	14
Chloride	23	14	109	13	17	44
Oxide	110	86	44	45	118	121
Sulphate	617	408	446	297	513	338
Dolomite	<i>n.a.</i>	<i>n.a.</i>	1,947	4,527	4,607	2,605
Peru—						
Crude and calcined	9	14	1,019	21	906	1,172
Carbonate	31	28	31	28	34	41
Oxide	3	3	4	4	3	8
Hydroxide	53	55	35	45	49	16
Sulphate	35	35	153	121	153	301
Chloride	3	2	8	4	4	8
Venezuela—						
Crude	776	1,951	159	239	378	754
Sulphate	154	170	263	255	358	350
Japan—						
Crude	4,047	1,394	2,198	1,806	3,396	2,914
Dead-burned	117,719	65,500	110,555	97,491	90,320	67,062
Magnesium metal	3,281	16	—	—	6	3
Korea (South)—						
Crude	<i>n.a.</i>	778	450	553	499	1,695
Philippine Republic—						
Crude and calcined	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	618	741
Carbonate	161	64	255	170	<i>n.a.</i>	<i>n.a.</i>
Sulphate	208	250	239	188	<i>n.a.</i>	<i>n.a.</i>
Dolomite	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	3,056	2,263

IMPORTS OF MAGNESITE, ETC. (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Syria—						
Ground and calcined ..	16	25	54	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sulphate	42	183	56	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Thailand—						
Chloride	66	25	55	54	59	66
Sulphate	337	215	344	95	344	321
Turkey—						
Carbonate	29	24	137	17	35	70
Chloride	4	—	155	56	94	212
Oxide	12	4	41	59	57	12
Sulphate	43	14	215	292	141	535

MANGANESE
PRODUCTION OF MANGANESE ORE
(including Ferruginous Manganese Ore)

Long tons

Producing Country	Estimated Manganese Content						1962	1961	1960	1959	1958	1957
	1957	1958	1959	1960	1961	1962						
COMMONWEALTH COUNTRIES												
Bechuanaland ..	212	12,690	17,980	22,350	28,337	23,623	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Ghana (a) ..	641,343	513,099	526,653	546,715	385,073	476,379	308,000	246,000	253,000	246,000	246,000	308,000
Northern Rhodesia ..	35,449	44,092	53,837	52,605	52,596	45,983	17,000	21,200	24,900	21,200	21,200	17,000
Southern Rhodesia ..	1,594	2,243	1,898	1,496	183	7,123	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
British Guiana ..	—	—	—	110,546	193,038	271,103	—	—	—	—	—	—
India ..	1,654,187	1,255,941	1,168,679	1,180,000	1,210,597	1,166,885	811,000	615,000	572,000	615,000	615,000	811,000
Goa ..	192,710	101,615	108,072	105,294	(b)98,000	86,368	72,000	38,000	40,000	38,000	72,000	72,000
Malaya ..	—	—	—	2,877	6,366	304	—	—	—	—	—	—
Pakistan ..	—	—	29	r 292	338	—	—	—	10	100	100	—
Australia ..	77,010	59,683	89,971	60,646	87,411	69,509	35,700	27,400	42,500	27,400	35,700	35,700
New Zealand ..	36	103	101	120	48	—	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Papua ..	—	—	—	48	2	1,073	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Fiji ..	34,694	18,295	13,005	11,672	3,455	4,000	16,000	9,000	6,000	9,000	16,000	16,000
New Hebrides ..	—	—	—	—	—	68,530	—	—	—	—	—	—
TOTAL ..	2,637,235	2,007,761	1,980,225	2,095,000	2,069,000	2,216,880	30	40	50	40	30	30
OTHER COUNTRIES												
Austria ..	200	300	424	—	—	—	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Bulgaria ..	80,000	27,952	25,589	27,600	36,400	(b)39,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Czechoslovakia ..	161,000	162,000	154,000	152,000	99,000	82,000	30,000	30,000	20,000	30,000	30,000	30,000
France ..	1,862	2,133	1,853	1,068	892	1,340	409	469	407	469	409	409
Greece ..	15,666	20,000	35,000	30,723	27,853	n.a.	6,300	7,900	14,000	7,900	6,300	6,300
Hungary ..	157,900	178,966	151,896	121,329	122,866	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Italy ..	46,407	43,382	51,357	48,715	48,389	43,797	12,500	r 11,800	r 14,400	r 11,800	12,500	12,500
Portugal ..	5,389	4,896	6,878	7,319	11,154	11,309	2,500	2,057	2,889	2,057	2,500	2,500
Roumania ..	261,074	197,102	194,000	172,000	203,000	6 200,000	91,000	69,000	68,000	69,000	91,000	91,000
Spain ..	40,734	35,953	40,110	21,952	15,261	12,344	12,400	12,900	13,400	12,900	12,400	12,400
Sweden ..	12,960	5,475	10,303	r 8,523	16,400	n.a.	1,354	733	1,824	733	1,354	1,354
U.S.S.R. ..	5,067,000	5,281,000	5,429,000	5,785,000	5,878,000	6,301,000	2,280,000	2,380,000	2,440,000	2,380,000	2,280,000	2,280,000
Yugoslavia ..	10,072	9,877	7,956	13,104	13,925	14,605	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Angola ..	49,289	48,088	38,207	26,157	21,879	14,525	15,000	17,500	15,700	17,500	15,000	15,000

(a) Exports.

(b) United States Bureau of Mines' estimate.

PRODUCTION OF MANGANESE ORE (cont.)

Long tons

Producing Country	Estimated Manganese Content					
	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES—(cont.)						
Congo Republic ..	361,225	332,804	380,085	367,995	311,246	311,203
Egypt ..	84,171	109,852	125,062	271,648	274,049	n.a.
Ethiopia ..	—	—	d 1,300	9,109	6,889	5,905
Gabon ..	—	—	—	—	—	200,034
Ivory Coast ..	—	—	—	60,600	122,770	105,274
Morocco ..	484,379	403,608	463,135	475,454	562,064	461,944
South Africa ..	703,467	834,021	954,645	1,175,118	1,395,294	1,441,606
South West Africa ..	80,054	92,009	44,145	60,214	44,906	—
Sudan ..	6,709	1,174	3,169	—	—	1,000
Cuba (b) ..	271,000	70,844	15,597	n.a.	n.a.	n.a.
Mexico ..	d 200,000	d 167,300	d 162,400	d 153,000	d 139,200	d 165,100
Panama Republic..	1,923	4,008	—	—	—	—
United States (c) ..	550,389	370,589	350,963	152,803	146,191	194,360
Argentina ..	9,959	14,671	19,070	21,652	39,274	n.a.
Bolivia (a) ..	—	—	—	—	47	259
Brazil ..	903,518	868,227	1,016,652	983,383	983,661	1,152,199
Chile ..	53,325	37,554	38,164	45,173	31,260	42,480
Peru ..	15,105	r 2,904	r 2,503	r 1,477	3,463	6,610
Venezuela ..	29,410	8,071	r 3,013	—	—	—
Burma (b) ..	452	1,255	541	289	175	190
China (d) ..	690,000	830,000	980,000	r 1,230,000	980,000	980,000
Indonesia ..	52,981	r 43,669	42,118	10,739	13,090	10,880
Iran (e) ..	(a) 13,417	7,091	2,600	7,600	2,067	1,969
Japan ..	284,373	291,312	342,588	318,867	299,318	303,000
Korea (South) ..	3,154	—	443	1,361	1,355	986
Philippine Republic ..	29,754	21,956	34,254	17,106	18,737	13,000
Thailand ..	340	984	404	520	524	180
Turkey ..	55,822	22,250	35,126	27,778	30,000	27,000
TOTAL ..	r 10,800,000	r 10,600,000	r 11,200,000	r 11,800,000	11,900,000	12,600,000
WORLD'S TOTAL ..	13,400,000	12,600,000	13,200,000	r 13,900,000	14,000,000	14,800,000

Manganese ore is also produced in 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	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Metal	166	83	98	190	175	25
Ferro-manganese and spiegeleisen	655	611	596	1,621	662	873
Ghana—						
Ore	641,343	513,099	526,653	546,715	385,073	476,379
Rhodesia and Nyasaland—						
Ore	28,184	32,349	47,589	40,525	41,577	45,138
Canada—						
Spiegeleisen	637	—	—	—	—	—
Ferro-manganese	41,726	201	172	651	212	121
British Guiana—						
Ore and concentrates	—	—	—	76,765	187,383	(d) 207,509
Hong Kong—						
Ore	228	324	483	183	27	34
India—						
Ore	1,633,679	924,497	913,741	(b) 1,025,088	(b) 789,148	(b) 616,843
Ferruginous manganese ore	81,333	35,690	56,388	(b) 123,449	(b) 160,168	(b) 121,899
Ferro-manganese	3,001	10,553	8,114	(b) 47,073	(b) 55,406	(b) 12,093
Goa—						
Ore	188,155	124,222	152,270	155,313	107,000	118,429
Malaya—						
Ore	10	—	—	2,953	—	2,000
Australia (a)—						
Ore	5,620	32,236	17,432	52,598	46,976	87,361
Fiji—						
Ore	27,415	22,498	20,630	1,788	2,265	10,335
New Hebrides—						
Concentrates	—	—	—	—	—	14,188
Papua (a)—						
Ore	18	—	—	—	1,830	n.a.
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Ore	3,241	1,475	32	2,733	32	2,188
Ferro-manganese	14,088	13,150	13,698	16,017	16,644	22,946
Ferro-silico-manganese	—	689	355	4,935	7,260	7,743
Spiegeleisen	4,299	3,533	4,231	3,290	4,253	4,163
France—						
Ore (c)	1,420	1,145	899	4,815	756	1,596
Metal	118	205	42	108	29	20
Ferro-manganese	122,795	83,036	98,939	132,693	156,294	152,040
Spiegeleisen	425	410	8,041	12,036	14,142	17,332
Germany (Federal)—						
Ore	2,417	4,499	5,078	5,014	6,477	5,885
Metal	36	33	75	495	789	1,163
Ferro-manganese	n.a.	n.a.	n.a.	n.a.	25,764	30,440
Spiegeleisen	n.a.	n.a.	n.a.	n.a.	9,519	16,771
Greece—						
Ore	17,169	22,315	29,302	30,395	27,189	7,657
Italy—						
Ore (c)	1	1	28	262	547	634
Ferro-manganese	211	322	4,005	3,123	2,352	1,276
Netherlands—						
Ore (c)	2,872	7,357	8,240	5,190	5,562	5,590
Norway—						
Ferro-manganese	77,719	41,844	61,938	50,497	47,360	45,844
Ferro-silico-manganese	45,126	44,859	67,411	80,466	84,891	70,570

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

(c) Including manganiferous iron ore.

(d) Provisional.

EXPORTS OF MANGANESE ORE, ETC. (cont.)

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Portugal—						
Ore	4,973	2,184	5,047	4,321	1,976	866
Roumania—						
Ore	<i>n.a.</i>	73,600	76,900	65,500	73,600	71,000
Sweden—						
Ore	518	595	1,086	717	743	484
Metal	<i>n.a.</i>	<i>n.a.</i>	47	92	30	17
Ferro-manganese	1,229	1,382	2,693	1,650	2,540	2,537
Ferro-silico-manganese	—	—	226	25	15	25
U.S.S.R.—						
Ore	793,200	819,800	963,500	957,600	881,800	947,800
do. (dioxide)	12,700	7,300	8,500	8,900	9,100	11,300
Ferro-manganese	41,000	45,000	49,700	50,000	50,800	54,800
Yugoslavia—						
Ferro-manganese	3,845	7,842	6,538	10,925	7,037	7,693
Silico-manganese	787	197	886	1,162	2,504	1,794
Angola—						
Ore	23,155	8,913	38,752	33,546	21,828	9,375
Congo Republic—						
Ore	324,262	313,711	297,837	(a) 300,000	(a) 300,000	(a) 250,000
Egypt—						
Ore	20,300	19,689	158,993	205,846	235,969	157,095
Gabon—						
Ore	—	—	—	—	—	91,108
Ivory Coast—						
Ore	—	—	—	22,365	107,687	96,018
Morocco—						
Ore	426,916	316,215	379,564	381,146	443,046	427,156
South Africa—						
Ore	497,221	442,387	472,987	867,355	838,834	820,508
Ferro-manganese	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	103,511	130,214	77,444
Sudan—						
Ore	6,136	1,273	—	394	—	—
Cuba—						
Ore	143,721	67,624	54,735	8,500	13,216	<i>n.a.</i>
Mexico—						
Ore	213,974	225,000	158,102	162,816	174,359	130,322
<i>Mn content</i>	78,409	77,120	75,720	70,686	58,872	61,060
Panama Republic—						
Ore	1,923	4,008	—	—	—	—
United States—						
Ore	4,705	4,359	5,091	4,588	6,722	7,717
Metal	656	551	1,133	2,182	1,997	1,976
Ferro-manganese	6,603	1,255	845	670	419	3,673
Spiegeleisen	26	745	339	132	469	638
Bolivia—						
Ore	—	—	—	—	47	258
Brazil—						
Ore	785,462	653,207	899,776	852,636	857,784	747,913
Ferro-manganese	1,673	—	—	—	49	4,937
Chile—						
Ore	34,151	19,648	23,858	20,735	7,511	<i>n.a.</i>
Ferro-manganese	5,712	5,822	2,735	2,971	3,673	<i>n.a.</i>
Silico-manganese	1,563	869	3,129	869	644	<i>n.a.</i>
Peru—						
Ore	9,628	4,448	1,022	—	913	6,858
Venezuela—						
Ore	22,040	<i>n.a.</i>	<i>n.a.</i>	1	—	—
Burma—						
Ore	343	426	—	—	—	—
Indonesia—						
Ore	50,419	43,660	31,832	24,400	4,200	<i>n.a.</i>

(a) Estimated.

EXPORTS OF MANGANESE ORE, ETC. (cont.)

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES (cont.)						
Iran (a)—						
Ore	13,417	4,232	5,062	5,708	1,250	<i>n.a.</i>
Japan—						
Ore	146	—	398	842	960	805
Ferro-manganese ..	35,490	47,900	33,269	38,914	14,249	21,091
Ferro-silico-manganese	9,844	21,611	9,633	2,684	772	6,463
Korea (South)—						
Ore	<i>n.a.</i>	98	709	198	492	—
Philippine Republic—						
Ore	33,501	30,532	26,042	17,405	24,720	8,370
Thailand—						
Ore	399	378	98	58	108	296
Turkey—						
Ore	24,561	23,922	22,847	28,282	19,011	22,127
New Caledonia—						
Ore	810	—	—	—	—	—

(a) Years ended March 20 following that stated.

IMPORTS OF MANGANESE ORE, ETC.

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore	476,337	347,433	342,839	528,856	470,929	342,390
Metal	481	649	1,101	1,511	1,655	1,056
Ferro-manganese and spiegeleisen	83,254	18,087	28,807	35,375	41,830	44,206
Silico-manganese	13,845	16,122	22,685	29,185	26,497	28,056
Canada—						
Ore	117,249	37,553	105,763	50,313	67,871	81,004
Ferro-manganese	664	2,217	2,084	13,835	10,772	13,332
Silico-manganese	2,015	1,950	2,669	2,112	1,940	2,434
Hong Kong—						
Ore	249	93	468	53	56	35
India—						
Ore	475	8,771	5,846	(c) 5,442	(c) 6,412	(c) 14,430
Ferro-manganese	275	200	150	(c) 155	(c) 519	(c) 453
Malaya—						
Ore	2,731	2,532	2,668	6,634	3,643	2,295
Australia (b)—						
Ore	1,046	3,028	1,189	404	1,520	12,151
Metal	82	42	76	96	78	177
Ferro-manganese	2,781	4,908	3,650	18,634	36,026	31,300
OTHER COUNTRIES						
Austria—						
Ore	69,431	4,661	6,115	65,414	55,408	14,018
Spiegeleisen	<i>n.a.</i>	<i>n.a.</i>	493	1,728	1,698	2,255
Ferro-manganese	7,518	8,268	5,818	9,473	8,679	8,481
Belgium-Luxemburg E.U.—						
Ore (a)	134,689	153,364	146,434	219,132	268,274	205,208
Ferro-manganese	80,984	46,626	55,300	58,558	52,644	56,141
Ferro-silico-manganese	2,553	2,317	2,494	3,378	3,766	3,578
Spiegeleisen	16,642	20,666	7,118	7,099	16,143	22,537
Czechoslovakia—						
Ore	<i>n.a.</i>	122,000	138,000	179,000	215,000	206,000
Denmark—						
Ore	6,068	4,287	3,032	7,134	1,712	5,660
Ferro-manganese	2,460	2,219	1,187	1,248	1,241	1,599
Ferro-silico-manganese			1,088	1,389	1,187	710
Finland—						
Ferro-manganese and spiegeleisen	2,925	1,363	2,176	3,338	2,194	2,545
France—						
Ore (a)	805,409	545,171	596,088	765,232	690,313	705,956
Metal	2	44	—	45	315	302
Ferro-manganese	40	3,405	4,665	6,333	7,276	7,626
Spiegeleisen	26,816	16,552	10,786	7,317	2,151	2,022
Germany (Federal)—						
Ore	486,093	335,690	312,140	350,870	500,742	440,778
do. (ferruginous)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	44,407	69,350
Metal	505	1,124	1,312	1,892	1,577	1,638
Ferro-manganese	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	81,005	78,794
Spiegeleisen	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	15,223	14,930
Germany (East)—						
Ore (d)	82,652	74,159	86,795	95,677	77,748	86,511
Hungary—						
Ferro-manganese	7,121	5,834	6,672	6,649	7,621	10,485

(a) Including manganiferous iron ore.

(c) Years ended March 31 following that stated.

(b) Years ended June 30 of that stated.

(d) Mn. content.

IMPORTS OF MANGANESE ORE, ETC. (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Italy—						
Ore (a)	132,533	56,735	72,323	136,729	136,582	101,760
Metal	55	29	82	156	172	113
Spiegeleisen	168	4,431	2,265	6,778	12,335	13,281
Ferro-manganese ..	9,257	18,136	20,182	27,526	30,620	42,949
Ferro-silico-manganese	2,840	2,001	1,767	1,991	2,913	2,670
Netherlands—						
Ore (a)	37,977	25,722	75,110	47,271	83,177	36,650
Ferro-manganese ..	10,278	9,102	8,806	12,807	14,210	8,297
Ferro-silico-manganese	277	229	372	452	896	405
Spiegeleisen	1,446	512	1,672	6,199	935	483
Norway—						
Ore	282,338	193,757	214,651	303,505	225,348	279,620
Poland—						
Ore	238,275	242,645	263,522	328,208	261,736	294,277
Spain—						
Ore	3,036	18,046	50,171	37,497	66,369	60,762
Ferro-manganese ..	342	120	629	140	1,421	1,397
Sweden—						
Ore	39,392	72,299	79,490	54,006	86,962	56,894
Metal	<i>n.a.</i>	<i>n.a.</i>	772	799	605	918
Ferro-manganese ..	7,016	3,176	5,765	6,138	10,806	9,982
Spiegeleisen	88	59	98	118	139	100
Ferro-silico-manganese	1,580	308	1,287	2,559	3,279	3,583
Yugoslavia—						
Ore	23,340	24,642	32,143	46,540	37,539	44,225
Metal	—	—	—	—	92	41
Ferro-manganese ..	245	300	359	575	253	265
Algeria—						
Ore	5	25	31	30	<i>n.a.</i>	<i>n.a.</i>
Mexico—						
Ferro-manganese ..	160	1,192	730	158	106	97
United States—						
Ore (over 35% Mn) ..	2,267,119	1,605,913	1,676,843	r 2,033,009	1,917,136	1,764,840
Mn content	1,042,171	747,411	792,572	r 966,395	920,591	842,553
Ore (10% to 35% Mn) ..	5,236	4,497	7,013	2,400	5,500	6,536
Mn content	1,623	1,406	2,162	817	1,763	2,101
Metal	—	—	29	217	504	1,776
Ferro-manganese ..	301,856	57,082	80,412	107,341	198,157	112,156
Mn content	230,197	44,215	62,707	82,673	151,963	86,643
Silico-manganese						
Mn content	4,562	7,954	11,156	8,970	12,027	15,315
Argentina—						
Ferro-manganese ..	—	—	—	292	415	452
Brazil—						
Ferro-manganese ..	73	63	819	45	171	44
Chile—						
Ferro-manganese ..	—	—	—	1	<i>n.a.</i>	<i>n.a.</i>
Silico-manganese ..	1	5	1	8	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Ore	223,986	170,245	274,188	238,172	362,774	316,740
Manganiferous iron ore	83,184	28,748	50,132	61,265	134,594	169,237

(a) Including manganiferous iron ore.

MERCURY
PRODUCTION OF MERCURY

Lb. avdp.

Producing Country	1957	1958	1959	1960	1961	1962
Austria (a)	487	—	—	—	—	—
Italy	4,826,000	r 4,504,000	r 3,508,000	4,217,000	4,211,000	4,145,000
Roumania	29,930	26,830	29,440	31,370	26,590	16,890
Spain	4,161,075	4,209,056	3,927,689	4,056,099	3,891,355	c 3,800,000
Yugoslavia	937,000	933,000	1,010,000	1,070,000	1,210,000	1,240,000
Tunisia	—	2,976	15,070	12,590	4,100	—
Mexico	1,601,211	1,714,303	1,247,910	1,528,670	1,380,000	1,430,000
United States	2,631,500	2,893,092	2,375,500	2,524,900	2,406,300	1,997,100
Bolivia (d)	—	772	881	—	—	n.a.
Chile	51,496	254,039	152,500	218,560	114,700	60,131
Colombia	7,500	15,000	7,200	11,320	14,525	(c) 14,000
Peru	31,248	150,680	192,000	230,600	228,100	265,000
China (c)	1,300,000	1,300,000	1,700,000	1,700,000	2,000,000	2,000,000
Japan	902,299	828,411	1,230,000	2,553,000	1,930,860	1,250,000
Philippine Republic	255,588	252,396	269,000	231,100	240,700	210,300
Turkey	54,720	112,936	42,000	101,800	141,800	202,400
WORLD'S TOTAL (b) ..	18,700,000	19,100,000	r17,700,000	20,400,000	20,000,000	19,000,000

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

- (a) Mercury content of copper concentrates.
- (b) Estimated.
- (c) United States Bureau of Mines' estimate.
- (d) Exports.

EXPORTS OF MERCURY, ETC.

Lb. avdp.

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Canada—						
Mercury	1,425	2,830	10,458	1,918	<i>n.a.</i>	<i>n.a.</i>
Hong Kong—						
Mercury	3,256	380	4,090	2,715	9,920	16,133
Malaya—						
Mercury	953	383	2,543	3,104	915	1,444
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Mercury	1,764	15,000	23,100	17,400	18,300	63,100
Mercury salts	16,755	2,200	3,700	—	200	<i>n.a.</i>
France—						
Mercury	6,173	9,000	10,800	22,300	24,700	18,000
Mercury salts	14,330	13,900	11,200	14,800	16,300	4,000
Germany (Federal)—						
Mercury	40,565	15,000	34,200	996,900	467,400	78,500
Italy—						
Mercury	2,188,088	873,875	2,670,818	4,057,532	2,483,700	2,715,200
Mercury salts	9,442	27,040	2,822	68,083	<i>n.a.</i>	<i>n.a.</i>
Netherlands—						
Mercury	2,000	2,000	40,000	1,074,000	463,000	40,000
Portugal—						
Mercury	165	—	44	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Spain—						
Mercury	3,533,824	3,855,541	3,269,470	3,998,964	3,654,583	3,487,713
Mercury salts	46,775	64,767	101,329	224,228	259,455	285,106
Sweden—						
Mercury	2,205	29,000	<i>n.a.</i>	<i>n.a.</i>	13,000	7,000
Switzerland—						
Mercury	930	1,404	1,025	1,453	1,572	6,609
U.S.S.R.—						
Mercury	642,000	789,000	783,000	1,186,000	1,378,000	1,323,000
Yugoslavia—						
Mercury	521,078	312,666	380,260	520,899	735,916	724,452
Mercury salts	86,507	137,628	144,334	460,001	301,509	381,483
Mexico—						
Mercury	1,593,327	1,988,210	1,587,465	1,720,776	1,462,837	1,651,791
United States—						
Mercury	145,833	24,298	48,652	27,166	21,626	17,053
Bolivia—						
Mercury	—	772	881	—	—	<i>n.a.</i>
Chile—						
Mercury	29,701	293,202	202,038	207,316	183,171	<i>n.a.</i>
Colombia—						
Mercury	1,124	10,251	1,984	—	9,193	—
Peru—						
Mercury	30,003	131,146	206,236	183,854	183,125	279,365
Japan—						
Mercury	1,210	384	11,460	2,873	1,554	1,786
Philippine Republic—						
Mercury	224,627	306,760	348,436	235,632	128,479	261,753
Turkey—						
Mercury	61,712	129,960	52,600	143,300	162,000	166,000

IMPORTS OF MERCURY, ETC.

Lb. avdp.

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Mercury	216,658	1,071,272	1,578,819	1,592,576	1,418,269	1,136,261
Rhodesia and Nyasaland—						
Mercury	11,948	6,591	17,380	10,615	11,655	11,079
Canada—						
Mercury	396,404	193,007	141,100	243,091	312,913	245,059
Mercury salts	(£9,039)	(£3,999)	(£2,281)	(£2,542)	(£1,326)	(£1,284)
Hong Kong—						
Mercury	28,722	11,163	26,720	32,115	43,486	54,377
India—						
Mercury	296,727	148,073	134,752	(b) 284,354	(b) 273,373	(b) 477,625
Mercury salts	26,190	19,588	37,334	(b) 31,603	(b) 17,633	(b) 47,329
Malaya—						
Mercury	1,951	1,874	2,945	2,873	3,112	3,778
Pakistan—						
Mercury	7,110	—	2,499	8,477	31,605	22,343
Australia (a)—						
Mercury	61,546	59,447	76,106	97,726	156,164	128,728
Mercury salts	250,817	184,087	356,674	707,004	549,459	26,178
New Zealand—						
Mercury	5,384	6,250	r 10,906	r 10,545	5,804	8,360
Mercury salts	6,800	3,900	3,800	3,500	6,000	n.a.
OTHER COUNTRIES						
Austria—						
Mercury	34,613	28,700	35,100	102,100	103,600	61,300
Belgium-Luxemburg						
E.U.—						
Mercury	99,869	89,900	81,400	73,600	75,000	46,500
Mercury salts	16,535	15,200	15,400	14,100	13,900	15,900
Denmark—						
Mercury	22,046	242,100	655,400	234,400	207,000	44,000
Finland—						
Mercury	150,018	57,552	150,468	92,594	55,000	62,000
France—						
Mercury	769,193	697,300	673,100	946,900	1,155,900	1,138,000
Mercury salts	2,205	8,200	13,400	12,600	40,600	29,000
Germany (Federal)—						
Mercury	1,140,892	1,148,200	1,194,500	2,844,200	2,056,700	1,789,900
Greece—						
Mercury	384	1,323	2,125	1,843	2,584	6,598
Italy—						
Mercury	1,096	705	167,933	16,539	2,600	46,300
Mercury salts	38,140	47,115	46,712	35,069	16,093	14,991
Netherlands—						
Mercury	304,238	106,000	163,000	1,162,000	578,000	110,000
Mercury salts	52,911	84,000	60,000	126,000	121,000	126,000
Norway—						
Mercury	40,016	12,599	20,000	35,000	101,000	64,000
Poland—						
Mercury	n.a.	401,700	293,400	420,400	403,200	n.a.
Portugal—						
Mercury	27,950	26,103	12,346	15,000	28,900	33,300
Mercury salts	4,965	2,815	4,409	n.a.	4,600	4,400
Sweden—						
Mercury	154,324	154,000	194,000	159,000	196,000	282,000
Switzerland—						
Mercury	53,517	40,827	97,616	132,052	102,001	81,606
Algeria—						
Mercury	1,543	5,100	6,800	9,000	n.a.	n.a.
Mercury salts	441	200	200	200	n.a.	n.a.

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

IMPORTS OF MERCURY, ETC. (cont.)

Lb. avdp.

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES (cont.)						
Angola—						
Mercury	141	31	172	194	298	212
Mercury salts	68	24	99	42	637	119
Congo Republic—						
Mercury	4,583	606	3,309	n.a.	n.a.	n.a.
Mercury salts	44	159	152	n.a.	n.a.	n.a.
Egypt—						
Mercury	4,460	38,801	11,912	9,916	322	n.a.
Morocco—						
Mercury	1,045	1,292	697	840	1,528	2,405
Mozambique—						
Mercury	179	11	168	88	165	n.a.
South Africa—						
Mercury	49,806	51,963	44,716	122,125	43,946	72,191
Sudan—						
Mercury	384	46	317	146	359	—
Tunisia—						
Mercury	110	220	397	400	747	1,499
Cuba—						
Mercury	3,960	3,075	2,679	n.a.	n.a.	n.a.
Guatemala—						
Mercury	252	430	337	—	—	n.a.
United States—						
Mercury	3,192,364	2,294,896	2,290,715	1,481,076	935,813	2,405,546
Mercury salts	18,891	8,685	40,302	114,305	90,700	46,368
Argentina—						
Mercury	8,918	72,215	127,163	36,654	13,532	24,332
Mercury salts	8,521	2,824	1,625	2,930	1,453	3,840
Brazil—						
Mercury	530,238	106,622	58,180	84,146	192,089	101,071
Chile—						
Mercury	338	409	435	451	n.a.	n.a.
Mercury salts	1,832	1,661	1,987	1,834	n.a.	n.a.
Colombia—						
Mercury	3,530	2,712	7,215	4,634	2,127	6,764
Mercury salts	52,649	9,546	15,895	15,053	9,156	14,597
Peru—						
Mercury	1,327	1,484	915	562	1,512	n.a.
Mercury salts	1,023	500	659	686	397	419
Uruguay—						
Mercury	1,380	14,072	90	551	n.a.	n.a.
Venezuela—						
Mercury	46,623	38,590	14,121	14,383	8,682	10,225
Mercury salts	9,720	7,317	18,415	9,815	24,736	6,740
Formosa—						
Mercury	16,211	17,070	15,946	46,116	11,579	19,941
Indonesia—						
Mercury	11,947	5,463	9,129	8,278	3,691	n.a.
Iran (a)—						
Mercury	9	132	33	2,004	n.a.	n.a.
Japan—						
Mercury	1,015,791	22,260	1,032	825	700,025	1,570,328
Korea (South)—						
Mercury	n.a.	29,000	22,000	22,000	37,000	55,000
Lebanon—						
Mercury	315	351	315	n.a.	n.a.	n.a.
Philippine Republic—						
Mercury	—	873	295	888	9,405	276
Thailand—						
Mercury	831	8,375	1,411	4,645	17,170	1,179
Mercury salts	22,505	791	985	915	2,304	2,434
Turkey—						
Mercury salts	2,932	1,131	3,973	2,866	3,697	2,942

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

MICA
PRODUCTION OF MICA

Lb. avdp.

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Kenya—						
Block and sheet ..	—	16,000	21,908	1,244	222	2,293
Northern Rhodesia—						
Sheet	627	1,940	r 248	530	—	—
Southern Rhodesia—						
Crude	—	—	—	752,000	102,300	172,888
Block and sheet ..	70,000	106,000	1,220,000	90,000	64,011	33,136
Tanganyika—						
Sheet	150,000	110,000	120,000	180,000	190,000	210,000
Waste	—	25,000	190,000	—	—	—
Uganda	—	—	—	—	850	n.a.
Canada (a)—						
Rough mine-run or						
rifted	2,577	4,608	8,641	118,407	73,541	} 1,204,034
Trimmed	40,165	29,834	16,336	28,862	56,585	
Splittings	16,385	—	—	—	22,556	
Sold for mechanical						
splitting	65,612	54,717	23,250	27,900	24,577	
Ground	911,138	1,380,530	591,356	791,994	1,434,097	
Scrap	243,193	35,244	174,251	696,886	204,804	
Ungraded	3,346	—	—	38,556	—	
By varieties—						
Phlogopite and						
biotite	1,265,929	1,061,972	813,509	1,580,605	1,565,740	n.a.
Muscovite and schist	16,487	442,961	325	122,000	250,420	n.a.
India (d)—						
Block	4,410,500	5,244,500	6,306,400	c 5,036,165	c 4,676,619	c 4,274,029
Splittings	16,644,000	14,273,300	15,998,800	c18,043,635	c18,479,395	c18,562,593
Ground and waste ..	27,915,300	23,945,500	29,082,000	c39,484,982	c39,293,188	c52,112,644
Australia (b)—						
Crude	—	35,840	170,000	649,600	185,920	—
Block	36,713	42,479	44,665	9,509	—	—
Scrap	40,600	37,408	7,000	—	—	—
OTHER COUNTRIES						
Austria	—	130,000	220,000	317,000	194,000	33,000
France	377,000	459,000	670,000	686,000	304,000	n.a.
Germany (Federal) ..	n.a.	29,000	31,000	22,000	18,000	20,000
Norway—						
Crude	4,600,000	4,900,000	11,500,000	5,700,000	7,700,000	—
Waste	35,000	240,000	1,100,000	900,000	2,200,000	n.a.
Spain	24,921	20,371	10,200	400	—	—
Sweden (a)—						
Ground	474,000	421,000	328,000	r 348,000	—	—
Yugoslavia	37,000	4,000	4,000	4,000	9,000	22,000
Angola—						
Sheet	46,734	47,181	20,258	26,863	3,571	—
Waste and splittings ..	844,000	716,943	383,400	720,069	45,966	—
Malagasy Republic—						
Phlogopite (block and						
splittings)	2,123,000	2,390,000	2,193,000	2,227,000	2,224,000	2,961,000
Mozambique	66,513	4,572	12,165	2,080	1,150	1,214
South Africa—						
Sheet	1,318	1,088	492	1,724	1,341	2,608
Waste	4,226,000	4,254,000	3,762,000	6,712,000	5,440,000	4,900,000

(a) Sales.

(b) The following amounts of damourite were also produced (lb. avdp.): 1957—1,456,000; 1958—1,080,000; 1959—1,100,000; 1960—1,250,000; 1961—1,140,000; 1962—1,090,000.

(c) Years ended March 31 following that stated.

(d) Exports.

PRODUCTION OF MICA (cont.)

Lb. avdp.

Producing Country	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
South West Africa ..	—	—	234,000	—	—	150,000
Sudan—						
Block	} (c) 13,311	{ 225,900	} 882,000	—	—	—
Scrap .. .. .							{ 154,000
United States (a)—						
Sheet (uncut)	690,052	661,344	706,395	r 587,401	526,007	360,958
Scrap (b)	184,876,000	186,694,000	203,082,000	195,820,000	198,090,000	215,404,000
Argentina—						
Sheet	212,150	127,030	} 110,000	110,000	120,000	n.a.
Waste	2,000	3,265				
Brazil	3,265,000	2,829,000	2,553,000	4,440,000	11,310,000	3,885,000
Formosa	11,000	700	45	—	—	—
TOTAL*	252,500,000	r249,700,000	r281,800,000	284,600,000	293,000,000	307,000,000

* 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.

(c) Exports.

EXPORTS OF MICA

Lb. avdp.

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Splittings	} 3,382,000	2,948,000	2,964,000	4,435,000	5,652,000	6,279,000
Ground and waste ..						
Kenya—						
Unmanufactured (a) ..	—	—	8,400	6,000	—	500
Rhodesia and Nyasaland—						
Unmanufactured (a) ..	756,029	1,104,842	986,423	313,417	122,378	33,327
Tanganyika—						
Unmanufactured (a) ..	149,500	132,400	309,000	180,400	197,100	218,600
Canada—						
Rough	87,500	—	107,100	30,200	181,100	97,900
Trimmed block or sheet	66,000	51,900	24,200	67,000	41,300	102,300
Ground	24,000	78,000	46,000	24,000	<i>n.a.</i>	<i>n.a.</i>
Waste	184,700	170,200	246,500	367,600	(d)	(d)
Hong Kong—						
Unmanufactured (a) ..	13,100	79,900	14,700	1,200	2,600	—
Manufactured	(£2,515)	(£1,367)	2,300	4,400	2,500	2,500
India—						
Block	4,410,500	5,244,500	6,306,400	c 5,036,165	c 4,676,619	c 4,274,029
Splittings	16,644,000	14,273,300	15,998,800	c18,043,635	c18,479,395	c18,562,593
Ground and waste ..	27,915,300	23,945,500	29,082,000	c39,484,982	c39,293,188	c52,112,644
Other unmanufactured	358,300	48,000	160,900	c 39,787	c 35,382	c 404,958
Manufactured	481,398	402,246	479,054	c 377,577	c 449,194	c 174,117
Australia (b)—						
Unmanufactured	4,661	29,535	33,818	86,332	98,096	57,344
Manufactured	(£7,698)	(£10,638)	(£13,434)	(£13,738)	(£23,599)	(£12,858)
OTHER COUNTRIES						
Austria—						
Unmanufactured	178,300	111,100	(a) 54,700	(a) 3,300	(a) 10,600	(a) 11,000
Manufactured	<i>n.a.</i>	<i>n.a.</i>	11,700	31,300	28,200	40,800
Belgium-Luxemburg						
E.U.—						
Unmanufactured (a) ..	36,200	266,300	161,000	49,200	55,600	45,000
Manufactured	59,500	36,400	58,400	114,200	131,200	257,900
Denmark—						
Ground	24,500	31,300	7,500	200	1,100	2,000
Manufactured	15,400	5,300	15,900	3,600	900	2,000
France—						
Unmanufactured (a) ..	231,000	253,500	183,400	312,000	138,200	110,000
Ground	206,800	294,500	298,900	303,100	224,000	254,000
Manufactured	274,500	303,100	316,800	480,800	504,400	518,000
Germany (Federal)—						
Unmanufactured (a) ..	499,600	465,500	578,700	675,900	713,000	945,100
Manufactured	172,000	160,500	169,500	213,400	241,000	220,700
Finland—						
Unmanufactured (a) ..	—	—	—	<i>n.a.</i>	121,000	165,000
Italy—						
Ground	—	—	101,693	54,384	} 134,300	82,200
Waste	—	11,023	16,535	44,092		
Manufactured	11,114	17,139	32,439	33,283	32,400	48,900
Netherlands—						
Unmanufactured	161,000	236,000	194,000	229,000	117,000	247,000
Norway—						
Unmanufactured	1,364,967	4,379,440	5,176,000	5,553,000	6,437,000	6,446,000
Waste	2,350,522	226,812	—	134,500	26,000	214,000
Sweden—						
Unmanufactured	18,000	22,000	37,000	2,000	4,000	18,000

(a) Including waste.

(c) Years ended March 31 following that stated.

(b) Years ended June 30 of that stated.

(d) Included with "Rough".

EXPORTS OF MICA (cont.)

Lb. avdp.

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Switzerland—						
Unmanufactured (a) ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	13,913	54,057	44,509
Manufactured	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	357,603	458,815	528,302
U.S.S.R.—						
Unmanufactured ..	306,000	223,000	373,000	22,000	4,000	—
Yugoslavia—						
Waste	95,570	69,710	252,932	35,693	70,394	—
Angola—						
Unmanufactured ..	46,618	36,467	20,020	17,472	11,720	<i>n.a.</i>
Waste	1,226,652	789,290	2,486,371	1,316,779	3,660	<i>n.a.</i>
Egypt—						
Unmanufactured ..	40,874	77,757	136,025	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Malagasy Republic—						
Unmanufactured ..	1,793,765	1,850,705	2,006,716	2,192,431	2,715,173	2,356,741
Mozambique—						
Unmanufactured ..	3,772	661	9,623	3,014	2,923	<i>n.a.</i>
South Africa—						
Unmanufactured (a) ..	3,966,000	2,268,000	2,256,000	3,166,000	6,756,000	5,312,000
Mexico—						
Unmanufactured ..	33,540	—	31,667	26,636	33,669	16,405
Manufactured	19,581	—	—	—	—	—
Waste	66,983	44,485	—	—	—	—
United States—						
Unmanufactured ..	911,006	1,030,540	1,072,894	701,926	334,211	430,856
Ground	9,256,170	8,198,367	8,915,109	7,077,245	7,074,850	7,427,420
Manufactured	541,432	254,198	216,040	243,354	190,320	197,441
Argentina—						
Unmanufactured ..	258,382	191,176	404,061	396,722	727,459	650,088
Brazil—						
Unmanufactured ..	1,815,826	1,783,352	1,742,201	1,595,944	1,969,263	1,944,902
Manufactured	27,079	35,025	51,471	59,869	51,099	60,197
Japan—						
Unmanufactured (a) ..	9,000	29,000	13,000	57,000	692,000	40,000
Manufactured	20,394	14,465	37,232	54,132	56,780	88,851

(a) Including waste.

IMPORTS OF MICA

Lb. advp.

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Block	1,178,000	954,000	1,033,000	858,000	856,000	473,000
Splittings	1,655,000	2,482,000	1,541,000	2,910,000	2,999,000	1,693,000
Ground and waste ..	13,704,000	7,150,000	6,933,000	14,531,000	11,872,000	10,385,000
Kenya—						
Unmanufactured (a) ..	500	3,100	7,500	20,100	35,300	15,500
Mauritius—						
Unmanufactured	—	4	9	31	4	n.a.
Manufactured	573	2	5,016	8,962	981	n.a.
Tanganyika—						
Unmanufactured (a) ..	8,800	33,600	81,800	75,400	13,200	24,500
Canada—						
Unmanufactured	501,900	1,047,700	1,340,400	1,838,800	1,475,800	2,296,300
Manufactured	(£162,307)	(£139,476)	(£156,720)	(£116,582)	(£126,259)	(£146,920)
Jamaica—						
Unmanufactured	7,415	40,922	125,579	78,801	118,046	187,889
Manufactured	1,567	409	548	192	473	147
Trinidad and Tobago—						
Unmanufactured (a) ..	41,700	25,300	55,000	66,000	—	2,500
Manufactured	4,714	1,102	488	—	125	165
Hong Kong—						
Unmanufactured (a) ..	23,400	51,100	130,400	11,000	19,000	9,000
Manufactured	(£984)	(£249)	11,200	1,700	4,100	14,800
India—						
Unmanufactured	230,252	29,318	560	30,483	48,828	2,000
Manufactured	—	—	5,719	8,951	423	60,563
Malaya—						
Manufactured	7,224	2,800	2,341	3,144	2,366	7,558
Sarawak—						
Unmanufactured (a) ..	22,000	r 4,000	r(c) 2,000	r(c) 4,000	4,000	—
Australia (b)—						
Block and sheet	25,022	21,653	21,215	26,772	43,859	15,150
Splittings	138,838	222,469	130,356	228,914	237,818	144,714
Ground	103,129	184,091	204,008	335,482	394,876	310,592
Waste	170,240	572,320	543,656	1,818,880	531,280	663,261
Manufactured	(£12,750)	(£11,002)	(£8,471)	(£4,267)	(£15,054)	(£8,583)
New Zealand—						
Unmanufactured	(£NZ10,535)	(£NZ20,283)	(£NZ17,898)	(£NZ26,766)	(£NZ23,910)	} £NZ12,407
Waste	(£NZ 1,146)	(£NZ 1,186)	(£NZ 2,457)	(£NZ 1,077)	(£NZ 4,094)	
OTHER COUNTRIES						
Austria—						
Unmanufactured	1,187,000	788,200	(a) 564,600	(a) 424,200	(a) 436,500	(a) 515,700
Manufactured	n.a.	n.a.	43,400	49,600	74,500	56,000
Belgium-Luxemburg E.U.—						
Unmanufactured (a) ..	3,293,000	1,682,300	2,231,300	1,694,700	1,568,400	1,965,400
Manufactured	60,600	54,900	46,300	83,800	70,800	89,100
Denmark—						
Unmanufactured	78,300	19,000	22,300	48,700	12,300	13,000
Ground	4,001,600	1,480,000	1,509,100	234,400	338,000	245,000
Manufactured	153,400	55,600	92,600	150,600	123,500	152,000
Finland—						
Unmanufactured (a) ..	—	—	—	n.a.	574,298	686,709
Manufactured	30,541	41,535	41,337	78,600	57,000	62,000
France—						
Unmanufactured (a) ..	3,828,300	5,004,100	2,491,200	4,437,900	5,193,200	4,409,000
Ground	2,615,300	2,763,300	1,962,300	2,166,500	2,587,600	2,919,000
Manufactured	114,200	65,000	32,800	28,200	58,000	88,000

(a) Including waste.

(c) Excess of re-exports.

(b) Years ended June 30 of that stated.

IMPORTS OF MICA (cont.)

Lb. advp.

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES (cont.)						
Germany (Federal)—						
Unmanufactured (a) ..	7,974,800	7,684,200	8,921,000	11,559,100	10,260,300	9,882,700
Manufactured ..	146,200	215,800	195,300	286,800	229,700	181,200
Greece—						
Unmanufactured ..	15,450	19,352	8,459	36,471	24,341	63,160
Italy—						
Unmanufactured ..	380,549	1,286,816	1,004,263	3,284,411	2,656,800	3,670,000
Ground ..	951,872	887,731	1,225,045	1,556,761	3,355,900	4,481,000
Waste ..	53,352,974	34,270,431	4,068,461	6,245,234		
Manufactured ..	416,588	444,860	404,112	630,725	788,800	533,700
Netherlands—						
Unmanufactured (a) ..	796,000	1,660,000	1,329,000	1,052,000	1,257,000	1,565,000
Manufactured ..	130,000	104,000	119,000	128,000	137,000	123,000
Norway—						
Unmanufactured ..	5,508,077	5,294,511	37,000	42,000	791,000	55,000
Waste ..			4,833,000	7,613,000	5,767,000	9,231,000
Manufactured ..			66,000	64,000	71,000	368,000
Poland—						
Unmanufactured ..	n.a.	916,200	769,600	916,900	1,322,300	n.a.
Portugal—						
Unmanufactured ..	115,811	175,327	172,448	203,000	226,600	284,400
Manufactured ..	8,763	9,817	10,615	4,000	11,900	15,000
Spain ..	146,577	4,500,337	271,052	287,816	409,284	838,257
Sweden—						
Unmanufactured (a) ..	2,443,000	2,123,000	1,720,000	2,540,000	2,648,000	2,496,000
Manufactured ..	46,000	53,000	53,000	51,000	71,000	93,000
Switzerland—						
Unmanufactured (a) ..	n.a.	n.a.	n.a.	1,578,267	1,773,683	2,042,483
Manufactured ..	n.a.	n.a.	n.a.	143,140	190,687	228,820
U.S.S.R.—						
Unmanufactured ..	254,000	922,000	2,621,000	2,441,000	1,404,000	730,000
Yugoslavia—						
Unmanufactured ..	—	—	11,830	15,677	—	13,227
Manufactured ..	8,080	3,732	3,849	2,423	20,682	21,314
Algeria—						
Unmanufactured (a) ..	158,300	155,000	70,100	1,100	n.a.	n.a.
Ground ..	125,500	257,700	261,000	154,100	n.a.	n.a.
Manufactured ..	7,300	4,900	5,700	7,500	n.a.	n.a.
Congo Republic—						
Unmanufactured ..	10,055	265	2,154	n.a.	n.a.	n.a.
Manufactured ..	22,663	2,359	2,088	n.a.	n.a.	n.a.
Egypt—						
Unmanufactured ..	86,972	222,931	371,576	2,204	55,676	15,926
Manufactured ..	3,349	4,301	5,959	13,946	10,143	3,865
Malagasy Republic—						
Unmanufactured ..	12,037	6,724	15,276	5,481	25,353	17,637
Morocco—						
Unmanufactured (a) ..	4,608	11,431	2,204	2,205	—	—
Ground ..	—	452	—	500	3,000	2,425
Manufactured ..	8,378	2,315	2,718	2,427	2,659	2,383
South Africa—						
Mica and micanite sheets	48,575	33,500	31,364	46,623	60,910	64,146
Tunisia—						
Unmanufactured ..	4,000	22,700	4	110	15	11,023
Ground ..	—	9				
Manufactured ..	n.a.	900	700	1,300	6,600	1,687
Guatemala—						
Unmanufactured ..	n.a.	n.a.	7,520	26,762	6,931	7,857
Manufactured ..	n.a.	n.a.	853	897	22	18
Mexico—						
Unmanufactured ..	201,053	57,347	98,703	21,231	91,558	201,474
Waste ..	37,942	272,231	484,724	248,318	309,077	417,604

(a) Including waste.

IMPORTS OF MICA (cont.)

Lb. advp.

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
United States—						
Unmanufactured	1,841,840	2,181,056	3,220,412	1,088,021	852,648	1,107,929
Ground	46,000	48,238	46,049	46,000	23,000	69,000
Waste	10,373,171	8,128,613	9,287,998	12,480,715	6,047,586	8,916,421
Films and splittings	11,310,980	9,937,286	9,866,427	8,256,530	7,457,035	10,460,437
Other manufactures	173,694	120,728	171,039	231,993	164,179	276,196
Argentina	<i>n.a.</i>	<i>n.a.</i>	342	6,766	11,054	4,031
Brazil—						
Unmanufactured	5,033	5,044	—	119	60	2,244
Manufactured	3,902	2,119	8,649	11,711	7,247	11,188
Chile—						
Unmanufactured	26,672	9,180	9,886	11,813	<i>n.a.</i>	<i>n.a.</i>
Manufactured	13,233	9,764	15,322	13,327	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Unmanufactured	165,225	27,760	198,696	300,910	391,331	425,915
Manufactured	642	3,338	9,703	14,059	16,435	12,807
Peru—						
Ground and waste	119,418	127,790	167,296	140,000	210,283	205,594
Venezuela—						
Unmanufactured	3,225,673	2,420,012	855,457	578,879	905,387	733,473
Manufactured	<i>n.a.</i>	<i>n.a.</i>	15,346	4,301	40,812	21,308
Formosa—						
Unmanufactured	2,798	13,673	2,751	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Indonesia—						
Manufactured	34,374	2,866	51,456	8,490	21,213	<i>n.a.</i>
Japan—						
Unmanufactured	1,171,000	983,000	1,881,000	1,812,000	4,057,000	} 3,851,000
Ground	1,543,000	816,000	1,978,000	128,000	207,000	
Waste	3,845,000	2,030,000	4,074,000	5,130,000	5,456,000	
Manufactured	1,867	183	137	79	1,208	
Lebanon—						
Unmanufactured	1,122	1,336	10,803	13,228	6,523	<i>n.a.</i>
Philippine Republic—						
Unmanufactured	38,874	77,473	81,721	42,099	149,264	84,957
Thailand—						
Unmanufactured	22	4	7	73	5,364	1,107
Manufactured	86,796	847	1,614	2,544	1,325	3,565
Turkey—						
Unmanufactured	—	7,707	19,590	75	7	25,026
Manufactured	2,116	10,055	6,003	4,343	2,297	5,150

MOLYBDENUM
PRODUCTION OF MOLYBDENUM ORE
(MoS₂ content or equivalent)

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Canada (a)	584	662	557	572	574	609
Australia	2	4	—	—	1	1
OTHER COUNTRIES						
Norway	295	360	379	403	396	427
Portugal	13	—	—	—	—	—
Yugoslavia	3	3	(b) 3	—	—	—
South Africa	11	7	—	—	—	—
Mexico	22	42	44	99	3	96
United States	45,237	30,579	37,941	50,809	49,563	38,156
Chile	2,197	2,109	3,771	3,041	3,004	3,913
Peru	—	2	—	—	—	—
Japan	446	190	627	625	600	613
Korea (South)	23	60	36	73	52	122
Philippine Republic	—	—	72	46	185	186
TOTAL*	48,833	34,018	43,430	55,668	54,378	44,123

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

(a) Shipments.

(b) United States Bureau of Mines' estimate.

EXPORTS OF MOLYBDENUM ORE, ETC.

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ferro-molybdenum ..	161	296	333	245	246	229
Canada—						
Oxide	499	763	1,673	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Ferro-molybdenum ..	—	—	—	61	246	143
France—						
Ferro-molybdenum ..	89	165	261	555	375	412
Oxide and molybdates..	2	7	4	7	2	10
Germany (Federal)—						
Metal	40	9	35	34	27	22
Netherlands—						
Metal	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	58	70
Norway—						
Ore	288	390	414	467	394	480
Sweden—						
Ferro-molybdenum ..	291	353	266	292	261	326
U.S.S.R.—						
Ferro-molybdenum ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	2,700	4,400	2,500
Mexico—						
Ore and concentrates						
(<i>MoS₂ content</i>) ..	—	26	44	97	3	96
United States—						
Ore and concentrates						
(<i>MoS₂ content</i>) ..	18,962	8,910	14,037	22,520	26,553	11,582
Metal, alloys and scrap..	44	6	7	132	197	34
Ferro-molybdenum ..	171	101	111	190	160	85
Wire, powder and semi-						
fabricated	21	16	15	11	14	21
Chile—						
Ore	2,806	1,788	3,894	4,002	3,918	<i>n.a.</i>
Peru—						
Ore (<i>MoS₂ content</i>) ..	—	4	—	—	—	8
Japan—						
Ore	27	339	—	—	—	<i>n.a.</i>
Philippine Republic—						
Concentrates	—	—	—	67	203	235

IMPORTS OF MOLYBDENUM ORE, ETC.

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore	5,565	3,713	4,658	7,783	7,961	5,510
Metal	11	10	19	23	22	30
Canada—						
Oxide	213	136	137	293	119	<i>n.a.</i>
Australia (a)—						
Oxide	77	46	3	4	26	66
Ferro-molybdenum ..	158	129	140	106	525	74
OTHER COUNTRIES						
Austria—						
Oxide	72	86	172	184	208	237
Ferro-molybdenum ..	132	65	50	119	51	121
Belgium-Luxemburg						
E.U.—						
Oxide	32	11	46	21	—	14
Molybdates	13	42	17	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ferro-molybdenum ..	243	109	265	482	532	498
Finland—						
Ferro-molybdenum ..	72	40	102	173	185	133
France—						
Ore	3,349	3,295	2,984	5,066	5,641	3,190
Metal and alloys	9	11	7	24	33	26
Oxide and molybdates ..	8	16	10	15	32	42
Germany (Federal)—						
Ore	5,057	5,149	6,041	8,626	9,047	4,790
Metal	13	25	35	87	120	88
Hungary—						
Ferro-molybdenum ..	39	49	70	45	193	195
Italy—						
Ore	529	444	680	1,479	1,500	1,150
Metal	7	6	5	48	15	52
Ferro-molybdenum ..	303	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Netherlands—						
Metal	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	17	21	14
Ferro-molybdenum ..	35	35	21	46	51	99
Norway—						
Ferro-molybdenum ..	<i>n.a.</i>	<i>n.a.</i>	29	59	61	50
Sweden—						
Ore	2,249	1,444	1,643	2,590	2,751	1,891
Metal	<i>n.a.</i>	<i>n.a.</i>	14	20	12	24
Ferro-molybdenum ..	76	133	394	967	1,141	351
United States—						
Ore (<i>MoS₃</i> content) ..	20	1	—	—	—	—
Metal	7	—	30	69	1	20
Semi-fabricated	11	10	20	9	8	14
Japan—						
Ore and concentrates ..	3,636	27	1,624	3,824	5,149	1,285

(a) Years ended June 30 of that stated.

NICKEL
PRODUCTION OF NICKEL ORE
(Metal content)

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Southern Rhodesia	72	3	—	<i>r</i> 25	65	87
Canada (<i>b</i>)	167,820	124,606	166,567	191,524	208,028	207,359
TOTAL	167,892	124,609	166,567	<i>r</i> 191,549	208,093	207,446
OTHER COUNTRIES						
Finland (<i>c</i>)	79	112	371	2,228	2,100	2,100
Greece (<i>i</i>)	1,100	500	—	—	—	—
Poland (<i>l</i>)	1,250	1,329	1,254	1,234	1,297	1,200
U.S.S.R. (<i>d</i>)	49,000	52,000	52,000	57,000	59,000	61,000
Morocco (<i>l</i>)	84	182	237	250	254	282
South Africa (<i>a</i>)	3,152	1,137	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Cuba (<i>e</i>)	(<i>i</i>) 25,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
United States (<i>f</i>)	8,991	10,482	10,362	11,187	9,979	10,015
Bolivia (<i>j</i>)	2	—	2	—	—	<i>n.a.</i>
Brazil	80	70	75	130	(<i>l</i>) 130	(<i>l</i>) 130
Venezuela	31	37	26	12	—	—
Burma (<i>g</i>)	66	328	136	69	135	106
Iran (<i>k</i>)	15	(<i>l</i>) 15	—	—	—	<i>n.a.</i>
Korea (South)	<i>r</i> 70	20	6	—	280	260
Philippine Republic	—	—	—	—	9	11
New Caledonia (<i>h</i>)	42,600	13,966	32,274	52,000	53,000	(<i>i</i>) 34,000
TOTAL*	131,000	100,000	120,000	140,000	140,000	130,000
WORLD'S TOTAL*	299,000	230,000	290,000	330,000	350,000	340,000

*Nickel ores are also produced in Albania, East Germany and Indonesia. Totals are approximate.

(a) Nickel content of platinum matte plus refined nickel.

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

(c) Nickel content of nickel sulphate. Figures for 1959 to 1962 also include nickel in concentrates.

(d) Source: Metallgesellschaft.

(e) Content of ore mined. The estimated content of oxide and sulphide produced was:

	Long tons		Long tons	
1957	19,862	1960	(<i>l</i>) 12,600	
1958	17,662	1961	(<i>l</i>) 7,000	
1959	(<i>l</i>) 17,700	1962	(<i>l</i>) 17,900	

(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	
1957	10,747	1960	8,421	
1958	6,617	1961	9,543	
1959	8,427	1962	9,918	

(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	
1957	10,153	1960	21,524	
1958	8,685	1961	24,856	
1959	11,642	1962	15,121	

(i) Estimated.

(j) Exports.

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

(l) United States Bureau of Mines' estimate.

EXPORTS OF NICKEL*

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Unwrought (a) ..	10,557	12,044	20,215	21,714	21,918	20,129
Semi-manufactures ..	1,626	2,111	1,647	2,113	2,396	2,273
do. alloys ..	2,495	2,508	2,162	2,917	3,390	3,292
Scrap (a) ..	1,219	1,574	1,415	1,309	2,088	2,141
Nickel oxide ..	398	373	452	595	519	476
Rhodesia and Nyasaland—						
Ore ..	286	8	32	158	224	262
Canada—						
Matte or speiss (Ni content) ..	65,798	60,410	58,623	65,991	82,980	69,116
Unwrought ..	92,194	76,043	91,171	96,741	119,200	108,672
Scrap (a) ..	n.a.	n.a.	n.a.	n.a.	552	865
Nickel oxide (Ni content) ..	1,524	1,244	3,712	11,837	16,090	9,929
Hong Kong—						
Semi-manufactures (a) ..	2	162	114	16	12	19
Scrap ..	n.a.	n.a.	n.a.	9	95	20
OTHER COUNTRIES						
Belgium-Luxemburg E.U.—						
Unwrought ..	1	—	479	545	—	4
do. alloys ..	—	4	5	115	29	6
Scrap ..	74	272	276	73	920	367
Semi-manufactures (a) (b) ..	23	130	467	468	94	141
Denmark—						
Unwrought ..	1	11	2	2	—	—
Scrap (a) ..	86	70	47	65	43	199
Finland—						
Unwrought ..	—	—	—	n.a.	1,519	2,190
France—						
Matte and speiss ..	15	—	59	—	50	429
Unwrought ..	1,324	612	3,548	3,667	3,255	5,231
do. alloys ..	1	—	11	15	26	20
Scrap (a) ..	99	12	406	969	1,639	1,077
Semi-manufactures (a) ..	77	134	417	949	730	961
Germany (Federal)—						
Unwrought and scrap (a) ..	1,248	1,372	1,332	1,883	644	913
Semi-manufactures (a) ..	1,565	1,544	2,846	4,056	4,586	5,031
Italy—						
Ore ..	5	—	—	—	—	—
Semi-manufactures (a) ..	210	386	317	562	722	716
Netherlands—						
Scrap (a) ..	693	709	613	711	797	976
Semi-manufactures (a) ..	46	55	45	110	124	181
Norway—						
Ore ..	861	—	—	—	—	—
Unwrought ..	(a) 19,862	(a) 21,079	25,518	27,759	29,207	27,243
Semi-manufactures (a) ..	738	682	515	643	648	602
Sweden—						
Unwrought ..	261	73	2	—	6	122
Semi-manufactures (a) ..	n.a.	n.a.	195	281	585	588
Switzerland—						
Unwrought and scrap (a) ..	393	836	466	406	467	517
Semi-manufactures (a) ..	601	641	971	992	868	675

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

(a) Including alloys.

(b) Excluding anodes.

EXPORTS OF NICKEL (cont.)

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
South Africa—						
Matte (<i>Ni</i> content) ..	2,072	1,791	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Cuba—						
Nickel oxide	21,876	22,274	22,913	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
United States—						
Ore, concentrates and matte	—	—	—	1	1,576	41
Unwrought and semi-manufactures (a) ..	11,978	12,159	6,216	10,246	8,258	8,996
Scrap (a) .. ..							5,456	38,065	39,714	15,643
Bolivia—						
Ore (<i>Ni</i> content) ..	2	—	2	—	—	<i>n.a.</i>
Burma—						
Unwrought	288	396	324	253	434	<i>n.a.</i>
Indonesia—						
Ore	<i>n.a.</i>	<i>n.a.</i>	6,107	13,541	14,763	<i>n.a.</i>
Japan—						
Ferro-nickel	11,135	408	—	1	289	—
Unwrought	2,898	272	2	—	1	—
do. alloys	181	—	1	—	—	—
Semi-manufactures (a) ..	256	181	14	3	60	176
Korea (South)—						
Ore	<i>n.a.</i>	310	—	—	738	902
Philippine Republic—						
Ore	—	—	—	—	43	54
New Caledonia—						
Ore	1,079,765	177,122	760,310	941,047	997,330	607,603
Matte	10,138	8,494	7,998	14,298	15,276	11,377
Ferro-nickel	14,093	9,395	17,905	42,960	45,791	20,943

(a) Including alloys.

IMPORTS OF NICKEL

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore, concentrates and matte	35,951	36,748	33,308	55,087	63,057	53,712
Unwrought	8,837	10,195	11,644	23,319	19,769	7,594
do. alloys	(d)	(d)	1,068	36	11	10
Semi-manufactures (a)	2,665	3,984	1,448	6,111	4,799	4,162
Scrap (a)	1,300	1,896	1,219	2,533	2,888	2,349
Nickel oxide	1,093	918	552	1,667	1,273	1,064
Canada—						
Unwrought (a)	288	183	220	23	12	132
Semi-manufactures (a)	1,580	1,741	1,439	1,550	3,831	6,559
Cyprus—						
Semi-manufactures (a)	<i>n.a.</i>	—	7	8	4	5
Hong Kong—						
Semi-manufactures (a)	98	265	220	72	97	111
India—						
Unwrought	298	393	695	(c) 1,040	(c) 1,316	(c) 1,304
do. alloys	91	56	26	(c) 61	(c) 47	(c) 45
Scrap	334	324	176	(c) 181	(c) 120	(c) 431
Semi-manufactures (a)	271	167	106	(c) 268	(c) 385	(c) 202
Australia (b)—						
Unwrought	808	772	641	1,212	825	355
do. alloys (f)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	143	96
Semi-manufactures (a)	(e) 453	(e) 356	(e) 350	(e) 364	963	845
New Zealand—						
Unwrought (a)	11	21	41	26	26	34
Semi-manufactures (a)	41	60	60	42	71	140
Irish Republic—						
Unwrought and semi-manufactures (a)	38	70	83	95	147	155
OTHER COUNTRIES						
Austria—						
Matte and speiss	<i>n.a.</i>	<i>n.a.</i>	15	263	244	120
Unwrought	1,792	1,329	2,572	2,767	2,615	2,049
Scrap	23	—	—	—	—	1
Semi-manufactures (a)	201	208	164	323	358	365
Belgium-Luxemburg						
E.U.—						
Unwrought	567	714	1,390	1,839	1,082	1,098
do. alloys	229	152	277	234	201	232
Scrap	69	146	93	91	179	287
Semi-manufactures (a)	425	273	207	306	467	536
Denmark—						
Unwrought	175	130	68	105	137	93
do. alloys	13	18	28	14	28	38
Semi-manufactures (a)	220	238	324	372	523	613
Finland—						
Unwrought (a)	312	335	276	468	473	387

*See footnote on p.224 concerning the descriptions "unwrought" nickel and "semi-manufactures" used in these tables.

(a) Including alloys.

(d) Included with "Semi-manufactures".

(b) Year ended June 30 of that stated.

(e) Excluding anodes.

(c) Years ended March 31 following that stated.

(f) Including scrap.

IMPORTS OF NICKEL (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
France—						
Matte and speiss ..	7,762	7,781	7,881	13,312	14,511	13,554
Ferro-nickel	16,492	11,195	10,005	23,248	20,957	12,238
Unwrought	2,341	2,821	3,974	5,650	4,159	4,057
do. alloys	91	27	47	3	5	4
Scrap (a)	485	392	1,284	1,102	1,745	1,641
Semi-manufactures (a)	791	913	709	1,628	1,598	1,704
Germany (Federal)—						
Ore	406	—	35	—	16	20
Matte and speiss ..	967	863	349	530	1,205	481
Unwrought (a)	14,871	14,718	20,355	31,580	19,278	18,610
Scrap (a)						
Semi-manufactures (a)						
Italy—						
Matte and speiss ..	108	815	270	542	1,006	1,008
Unwrought (a)	2,497	2,517	2,203	5,307	5,008	4,363
Scrap	623	806	473	1,127	988	634
Semi-manufactures (a)	597	541	587	1,024	1,213	1,836
Netherlands—						
Unwrought	353	292	328	599	464	405
do. alloys	75	65	188	72	76	42
Scrap (a)	101	378	293	231	304	446
Semi-manufactures (a)	1,144	1,208	1,079	1,313	1,545	1,514
Norway—						
Ore	—	—	49	49	90	211
Matte (copper-nickel) ..	45,823	48,398	54,159	60,695	63,328	59,896
Scrap (a)	<i>n.a.</i>	<i>n.a.</i>	390	2,631	3,938	524
Semi-manufactures (a)	201	174	212	212	323	333
Portugal—						
Unwrought and semi-manufactures ..	58	124	77	47	112	200
Spain—						
Matte and speiss ..	143	807	602	873	819	374
Unwrought (a)						
Semi-manufactures (a)						
Sweden—						
Matte and speiss ..	<i>n.a.</i>	<i>n.a.</i>	1,264	1,823	898	358
Wrought	5,558	4,858	6,512	8,729	8,592	6,980
do. alloys	<i>n.a.</i>	<i>n.a.</i>	230	498	374	398
Scrap (a)						
Semi-manufactures (a)						
Switzerland—						
Unwrought and scrap (a)	716	1,085	1,177	1,381	1,636	1,591
Semi-manufactures (a)	826	907	537	503	751	743
Yugoslavia—						
Unwrought	110	132	168	300	216	353
Semi-manufactures (a)	87	58	11	22	19	17
Algeria—						
Semi-manufactures (a)	1	22	13	89	<i>n.a.</i>	<i>n.a.</i>
Egypt—						
Semi-manufactures ..	65	54	40	225	181	45
Cuba—						
Semi-manufactures ..	112	128	141	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Mexico—						
Unwrought	55	129	43	103	296	240
Semi-manufactures ..	206	177	150	220	182	209
United States—						
Ore and matte	11,765	4,084	3,635	164	—	12
Unwrought and scrap ..	89,462	56,307	74,560	71,247	103,806	104,061
Semi-manufactures ..	25	70	101	119	287	362
Nickel oxide	33,107	26,449	26,841	21,950	13,048	7,733

(a) Including alloys.

IMPORTS OF NICKEL (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Argentina—						
Unwrought	156	160	18	105	69	62
Semi-manufactures ..	154	108	40	101	288	136
Brazil—						
Unwrought (a) ..	297	288	201	346	741	866
Semi-manufactures (a)	226	142	99	198	192	307
Chile—						
Unwrought	39	11	36	41	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Unwrought (a) ..	24	36	16	21	30	34
Semi-manufactures (a)	123	276	349	213	193	101
Formosa—						
Unwrought (a) ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	55	91	99
Japan—						
Ore	1,025,660	200,316	712,242	930,731	1,030,024	664,212
Matte	109	—	—	253	707	676
Unwrought (a) ..	265	56	36	176	251	1,054
Semi-manufactures (a)	494	381	131	199	544	669
Philippine Republic—						
Semi-manufactures (a)	<i>n.a.</i>	17	19	65	37	21
Turkey—						
Semi-manufactures (a)	3	5	18	47	44	86

(a) Including alloys.

NITROGEN COMPOUNDS
PRODUCTION OF NITROGEN COMPOUNDS*

Long tons

Producing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom (a)—						
Nitrogenous fertilizers expressed as 25% NH ₃	1,641,600	1,632,700	1,779,200	2,067,200	2,214,900	2,232,300
Actual ammonium sulphate	1,109,500	1,098,000	1,015,000	1,086,000	1,063,000	1,065,000
Canada—						
Ammonium sulphate	279,774	288,686	291,345	268,501	269,070	253,589
India—						
Ammonium sulphate	379,656	384,228	378,504	382,813	389,000	411,000
Pakistan—						
Ammonium sulphate	—	20,140	42,078	44,711	50,506	51,964
Australia—						
Ammonium sulphate	115,978	131,630	105,380	100,750	103,840	103,918
OTHER COUNTRIES						
Austria—						
Nitrogen fertilizers	773,610	838,402	904,770	922,400	976,770	1,122,300
Belgium—						
(N content)—						
Synthetic ammonia, etc.	230,056	270,578	298,840	314,280	271,310	276,710
Ammonium sulphate	16,735	17,964	15,970	15,710	14,300	16,950
Mixed fertilizers	11,728	21,259	21,150	26,430	31,260	38,450
Technical products	7,913	6,330	9,610	11,700	12,800	14,520
Bulgaria—						
Nitrogen fertilizers						
(N content)	39,500	42,800	61,100	82,300	86,300	n.a.
Czechoslovakia—						
Nitrogen fertilizers						
(N content)	73,228	106,370	131,159	137,672	143,891	151,485
Finland (b)—						
(N content)						
Cyanamide	437	350	477	657	52,400	50,300
Ammonium nitrate	20,035	21,390	27,402	30,000		
Ammonium sulphate	150	—	—	—		
France (b)—						
(N content)						
Ammonium sulphate	73,300	69,400	74,300	70,800	74,200	79,700
Cyanamide	2,400	2,400	1,776	2,331	2,881	2,533
Nitrate of soda	4,200	2,700	1,400	500	—	—
Nitrate of lime	39,800	38,700	38,800	37,600	37,700	39,200
Nitrate of ammonia	234,800	277,300	292,800	329,200	394,800	451,500
Ammonium phosphate	1,100	2,000	993	1,400	(c)	(c)
Other nitrogen fertilizers	24,900	19,500	17,400	20,300	31,800	47,400
Mixed fertilizers	63,100	90,000	102,600	103,800	118,800	141,700
Germany (Federal)—						
Chemical nitrogen						
(N content)—						
Fertilizer	958,075	1,060,254	1,001,229	1,108,141	1,124,500	1,154,700
Technical use	150,716	159,823	193,228	235,311	231,800	258,200

*Includes by-product ammonium sulphate which is separately recorded as far as available on pages 84-87.

(a) Source: Annual Report of the British Sulphate of Ammonia Federation.

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

(c) Included with mixed fertilizers.

PRODUCTION OF NITROGEN COMPOUNDS (cont.)

Long tons

Producing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
(cont.)						
Germany (East)—						
N content—						
Ammonium sulphate	165,240	168,249	173,165	175,614	172,350	170,405
Cyanamide	13,811	15,774	17,869	16,196	15,752	16,401
Lime ammonium nitrate	104,120	113,445	116,312	120,081	117,687	119,377
Potassium ammonium nitrate	11,814	12,025	11,910	12,416	12,614	13,420
Hungary—						
Nitrogen fertilizers ..	78,604	156,842	241,079	273,695	324,916	347,499
Iceland (a)—						
Ammonium nitrate (N content)	6,800	6,400	5,300	6,300	7,000	7,200
Italy—						
Ammonium sulphate ..	763,990	901,636	1,147,817	1,240,055	1,342,846	1,311,284
Ammonium sulpho-nitrate	—	—	—	—	—	28,299
Cyanamide	121,437	185,635	166,570	125,007	77,449	119,299
Nitrate of soda	5,871	6,488	6,551	6,899	9,418	7,534
Nitrate of potash	—	—	107	1,993	6,762	9,441
Nitrate of lime	296,481	323,348	287,788	361,441	334,189	324,875
Nitrate of ammonia	371,632	589,313	681,490	799,939	793,523	779,442
Di-ammonium phosphate	152,847	163,056	198,398	200,039	243,097	339,535
Ammonium phosphate						
Netherlands—						
Nitrogen fertilizers (N content) (a)	324,300	374,300	387,500	399,700	410,800	428,500
Norway—						
Cyanamide	1,461	13,660	7,665	4,990	4,058	2,788
Nitrate of ammonia	7,530	8,793	11,237	10,784	12,350	13,856
Nitrate of lime	1,066,295	1,038,646	1,068,734	1,125,418	1,145,270	1,153,071
Nitrate of soda	3,608	820	1,389	1,724	2,740	3,015
Lime ammonium nitrate	59,132	63,555	39,736	46,478	94,535	115,266
Poland—						
Ammonium sulphate ..	107,300	110,600	116,000	127,000	169,000	n.a.
Cyanamide	144,000	160,000	170,000	173,000	178,000	n.a.
"Saletrzak"	380,000	527,000	401,000	423,000	537,000	n.a.
Portugal—						
Cyanamide	5,067	10,778	9,774	7,529	14,875	5,511
Ammonium sulphate ..	60,460	131,593	186,525	177,557	177,721	178,479
Ammonium nitrate ..	n.a.	n.a.	n.a.	n.a.	62,723	82,766
Nitrate of lime	n.a.	n.a.	n.a.	n.a.	5,475	17,042
Roumania—						
Nitrogen fertilizers (N content)	6,181	9,447	8,335	18,641	29,461	43,256
Spain—						
Cyanamide	5,537	2,428	1,415	4,615	2,403	n.a.
Ammonium nitrate ..	78,165	45,291	49,216	86,071	114,242	n.a.
Ammonium sulphate ..	143,962	180,933	213,482	324,737	403,243	n.a.
Sweden—						
Ammonium nitrate ..	n.a.	n.a.	11,076	11,880	n.a.	n.a.
Ammonium sulphate ..	n.a.	n.a.	6,600	5,687	n.a.	n.a.
Cyanamide	n.a.	n.a.	23,810	23,345	n.a.	n.a.
Lime ammonium nitrate	n.a.	n.a.	119,632	134,865	n.a.	n.a.
Switzerland (a)—						
N content—						
Cyanamide	1,500	1,200	1,800	2,000	2,100	2,100
Ammonium sulphate ..	1,400	2,000	2,500	4,100	5,100	4,100
Ammonium nitrate ..	4,400	4,900	5,100	5,400	5,300	5,700
Calcium nitrate	2,800	2,600	3,000	3,000	3,000	3,000
Mixed fertilizers	800	800	1,000	1,500	1,800	2,100

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

PRODUCTION OF NITROGEN COMPOUNDS (cont.)

Long tons

Producing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
U.S.S.R. (a)—						
Nitrogen fertilizers						
(N content)	699,000	738,000	704,000	729,000	n.a.	n.a.
Yugoslavia—						
Ammonium nitrate	19,970	22,820	23,620	24,971	24,255	20,440
Ammonium sulphate	7,066	8,654	10,627	12,098	12,279	n.a.
Cyanamide	17,442	21,367	12,078	7,266	10,572	n.a.
Egypt—						
(N content)						
Nitrate of lime	31,731	33,760	37,476	54,100	104,800	n.a.
South Africa (a)—						
Nitrogen fertilizers						
(N content)	13,127	15,974	20,692	r 21,900	37,600	58,400
Mexico (a)—						
Nitrogen fertilizers						
(N content)	12,900	(b) 13,000	n.a.	n.a.	n.a.	n.a.
United States—						
Sulphate equivalent of ammonia produced (coke-ovens)	905,112	660,036	639,913	656,644	618,807	598,777
Actual ammonium sulphate (coke-ovens)	811,520	571,802	547,087	563,967	529,980	531,000
Actual ammonium sulphate (synthetic plants)	930,798	974,068	981,640	768,000	849,000	973,000
Anhydrous ammonia (synthetic plants)	3,332,645	3,463,195	4,035,451	4,301,521	4,649,000	5,160,000
Ammonium nitrate, original	2,308,935	2,304,743	2,557,947	2,780,000	2,888,000	3,079,000
Brazil—						
Ammonium sulphate	5,864	4,547	7,338	7,255	6,695	n.a.
Lime ammonium nitrate	—	7,708	47,764	68,465	58,696	n.a.
Chile—						
Nitrates of soda and potash (natural)	1,288,871	1,259,848	1,243,901	r 915,612	1,092,868	1,085,127
Peru (a)—						
Nitrogen fertilizers						
(N content)	42,900	16,600	36,059	45,100	n.a.	n.a.
Formosa—						
Cyanamide	73,609	68,843	64,323	61,443	62,858	77,364
Ammonium sulphate	15,117	17,124	21,754	21,086	28,751	67,104
Nitro-phosphate	2,789	17,096	19,733	20,688	19,802	—
Nitro-chalk	1,910	31,979	42,674	42,430	52,177	56,715
Israel—						
Ammonium sulphate	54,487	61,705	63,690	60,381	n.a.	n.a.
Japan—						
Ammonium sulphate	2,441,686	2,569,074	2,591,993	2,385,070	2,464,079	2,470,000
Cyanamide	398,226	436,574	404,524	351,720	329,104	297,000
Ammonium nitrate	46,675	46,273	49,884	51,262	51,584	51,210
Ammonium chloride	135,159	137,840	141,290	237,510	363,039	332,531
Philippine Republic (a)—						
Ammonium sulphate						
(N content)	8,000	8,271	13,803	n.a.	n.a.	n.a.
Turkey—						
Ammonium sulphate	4,323	4,314	2,948	4,549	4,200	n.a.

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	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ammonium sulphate ..	205,804	304,287	213,968	187,419	166,711	359,439
Ammonium chloride ..	9,864	10,626	11,042	15,310	16,227	11,162
Ammonium nitrate ..	2,148	1,181	1,043	496	487	n.a.
Liquid ammonia ..	3,939	4,507	4,727	4,396	3,852	4,346
Anhydrous ammonia ..						
Other nitrogen fertilizers	1,317	2,023	3,174	1,894	1,097	454
Canada—						
Ammonium sulphate ..	(£3,470,267)	(£3,012,328)	(£3,162,368)	(£3,151,628)	(£2,612,495)	(£2,376,851)
Nitrogen fertilizers ..	(£6,759,139)	(£6,266,116)	(£5,375,164)	(£7,035,149)	(£7,880,620)	(£4,654,386)
Trinidad and Tobago—						
Ammonium sulphate ..	—	—	8,128	69,663	87,642	73,733
Hong Kong—						
Nitrate of potash ..	320	368	356	190	286	307
Nitrate of soda ..	—	—	34	31	23	28
Ammonium sulphate ..	25,073	62,838	26,421	976	59,120	27,190
Synthetic nitrate ..	67	55,105	—	—	36,867	9,795
Ammonium chloride ..	261	128	47	38	27,124	16
India—						
Nitrate of potash ..	6	16	44	(a) 39	(a) 8	(a) 8
Nitrate of soda ..	57	45	11	(a) 40	(a) 31	(a) 32
Malaya—						
Anhydrous ammonia ..	8	4	33	176	415	461
Other nitrogen fertilizers	1,749	823	767	1,200	1,315	1,307
OTHER COUNTRIES						
Austria—						
Anhydrous ammonia ..	1,602	561	n.a.	n.a.	n.a.	n.a.
Belgium-Luxemburg						
E. U.—						
Nitrate of potash ..	33	32	25	36	—	1
Nitrate of soda ..	40	68	—	20	56	60
Nitrate of lime ..	—	—	—	5	344	—
Ammonium sulphate ..	537,145	650,857	747,867	553,855	552,353	390,206
Ammonium chloride ..	39	19	128	159	34	106
Ammonium nitrate ..	134,042	289,443	164,709	174,220	139,345	167,488
Ammonium phosphate	28,130	33,917	53,302	n.a.	n.a.	n.a.
Cyanamide ..	8,833	3,160	7,844	5,114	3,900	3,794
Anhydrous ammonia ..	46	46	4,197	6,389	n.a.	n.a.
France—						
Nitrate of potash ..	3,072	2,876	2,149	1,653	2,079	2,322
Nitrate of soda ..	2,075	2,022	1,725	7,580	1,298	455
Nitrate of lime ..	5,907	12,485	10,598	19,439	17,100	15,450
Ammonium sulphate ..	118,518	133,514	86,478	100,252	169,582	149,272
Ammonium chloride ..	466	315	23	44	58	4
Ammonium nitrate ..	49,702	124,638	76,343	253,731	124,102	206,484
Cyanamide ..	226	838	158	188	471	195
Anhydrous ammonia ..	291	264	305	307	18,294	5,138
Germany (Federal)—						
Nitrate of potash ..	8,476	11,790	9,633	13,082	11,582	12,254
Nitrate of soda ..	4,515	19,214	24,745	11,452	24,883	19,881
Nitrate of lime ..	82,642	84,399	173,985	113,140	125,679	104,923
Ammonium nitrates ..	708,198	682,456	892,138	864,779	780,638	886,430
Ammonium chloride ..	8,967	9,719	11,405	10,810	n.a.	n.a.
Other nitrogen fertilizers	633,863	929,217	862,376	796,054	831,309	759,096
Germany (East)—						
Nitrogen fertilizers (b)	81,260	94,123	100,657	112,167	104,222	99,512

(a) Years ended March 31 following that stated.

(b) N content.

EXPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Hungary—						
Nitrogen fertilizers ..	6,106	50,079	<i>n.a.</i>	<i>n.a.</i>	40,835	25,313
Italy—						
Nitrate of potash ..	12	264	235	606	971	925
Nitrate of soda ..	33	—	—	89	38	15
Nitrate of lime ..	—	1,163	4,876	15,455	9,635	12,795
Ammonium nitrate ..	164,193	256,261	434,903	385,538	432,115	553,468
Ammonium sulphate ..	236,833	312,959	609,206	570,986	808,354	669,886
Cyanamide ..	703	4	751	15,359	1,282	513
Netherlands—						
Nitrate of potash ..	31	65	53	68	84	134
Nitrate of soda ..	137	530	776	254	188	63
Nitrate of lime ..	48,853	54,582	67,268	64,003	63,887	47,774
Ammonium sulphate ..	359,905	317,290	307,377	261,387	183,802	296,552
Ammonium chloride ..	56	89	100	220	110	66
Ammonium nitrate ..	1	3	24	354,375	342,237	314,819
Lime ammonium nitrate	324,250	331,986	413,483			
Anhydrous ammonia ..	1,952	1,846	2,023	9,975	<i>n.a.</i>	<i>n.a.</i>
Norway—						
Nitrate of soda ..	1,300	1,453	1,903	2,120	2,405	1,912
Nitrate of lime ..	988,927	906,955	1,043,797	1,099,000	1,117,534	1,119,803
Ammonium nitrate ..	559	3,197	2,537	2,979	1,630	2,624
Cyanamide ..	3,405	8,678	5,391	1,808	1,372	536
Anhydrous ammonia ..	660	1,255	820	462	385	185
Poland—						
Ammonium chloride ..	<i>n.a.</i>	1,718	1,509	1,569	3,105	<i>n.a.</i>
Nitrogen fertilizers ..	177	167,660	125,553	17,044	46,105	<i>n.a.</i>
Portugal—						
Ammonium sulphate ..	8,697	11,305	13,256	19,277	36,928	36,726
Sweden—						
Ammonium nitrate ..	61	1,650	124	147	187	185
Switzerland—						
Nitrate of potash (crude)	3,946	2,927	15	—	—	—
Nitrates of potash and soda (purified) ..	39	1	2	—	3	—
Ammonium sulphate, etc. ..	2,026	9,058	11,114	10,807	10,041	11,883
U.S.S.R.—						
Ammonium nitrate ..	69,900	87,900	80,000	86,500	126,900	75,400
Ammonium sulphate ..	46,800	66,300	67,900	167,500	265,900	397,400
United States—						
Nitrate of soda ..	3,197	2,827	1,402	928	1,087	843
Ammonium nitrate ..	130,929	80,733	79,211	35,170	26,676	37,699
Ammonium sulphate ..	708,020	345,391	356,853	211,883	128,973	480,816
Other nitrogen fertilizers ..	113,111	35,514	35,178	56,445	16,201	55,962
Nitrogen phosphatic fertilizers ..	71,687	44,234	61,671	95,867	69,202	107,607
Anhydrous ammonia ..	60,666	(a) 59,490	(a) 75,015	(a) 97,018	(a) 91,444	(a) 53,096
Chile—						
Nitrate of soda ..	1,180,756	1,109,327	1,027,701	713,191	1,012,080	822,000
Nitrate of potash ..	51,313	54,635	86,018	53,545	67,301	60,422
Israel—						
Ammonium sulphate ..	7,234	1,575	—	<i>n.a.</i>	<i>n.a.</i>	—
Japan—						
Cyanamide ..	115	4,282	45,616	295	313	280
Ammonium nitrate ..	4,486	6,172	9,723	1,463	2,359	11,392
Ammonium chloride ..	16,544	24,542	132	2,646	52,670	63,207
Ammonium sulphate ..	705,616	805,481	1,019,287	870,435	792,563	850,923
Anhydrous ammonia ..	350	428	318	191	134	50
Other nitrogen fertilizers	228	99	1,575	1,222	3,042	60,805

(a) Ammonia content.

IMPORTS OF NITROGEN COMPOUNDS

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Nitrate of potash ..	1,205	2,639	2,740	2,683	3,368	3,434
Nitrate of soda ..	20,401	12,891	9,320	13,073	19,775	15,201
Cyanamide ..	1,369	1,071	309,095	191,825	204,663	199,274
Ammonium sulphate ..	550	103				
Ammonium phosphate	4,680	8,123	10,834	11,730	17,912	14,820
Anhydrous ammonia ..	11	14	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Malta—						
Ammonium sulphate ..	1,423	1,734	2,351	2,111	2,468	1,131
Gambia—						
Ammonium sulphate ..	2	130	1	1	2	—
Ghana—						
Ammonium sulphate ..	208	619	551	271	207	513
Kenya—						
Nitrogen fertilizers ..	9,167	5,386	7,979	14,732	15,457	17,141
Mauritius—						
Nitrogen fertilizers ..	29,787	26,487	38,352	<i>r</i> 37,188	34,860	41,861
Nigeria—						
Ammonium sulphate ..	502	<i>r</i> 2,246	567	878	996	3,931
Other nitrogen fertilizers	510	200	33	<i>r</i> 870	129	218
Rhodesia and Nyasaland—						
Nitrates ..	139	189	202	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ammonium sulphate ..	55,014	27,161	19,270	25,923	33,528	35,720
Other nitrogen fertilizers	<i>n.a.</i>	<i>n.a.</i>	24,609	32,671	42,038	47,856
Tanganyika—						
Nitrogen fertilizers ..	3,970	2,309	2,340	3,305	3,683	5,074
Uganda—						
Nitrogen fertilizers ..	2,294	2,803	3,851	4,059	6,809	3,619
Canada—						
Nitrate of potash ..	467	607	662	662	818	815
Nitrate of soda ..	22,855	20,293	19,361	16,324	14,604	15,195
Ammonium sulphate ..	2,936	5,261	5,304	7,755	8,875	12,635
Ammonium chloride ..	853	520	541	414	276	261
Ammonium nitrate ..	93	26	23	27	578	67
Anhydrous ammonia ..	24,165	15,308	4,994	3,035	6,027	1,095
Other nitrogen fertilizers	28	36	336	537	592	888
Antigua—						
Nitrogen fertilizers ..	689	237	35	666	808	—
Barbados—						
Nitrate of soda ..	—	5	—	—	—	—
Nitrogen fertilizers ..	16,721	8,657	10,424	11,516	11,024	12,303
Grenada—						
Ammonium sulphate ..	348	686	591	419	450	<i>n.a.</i>
Jamaica—						
Ammonium sulphate	14,130	16,314	14,566	13,834	24,137	22,522
Other nitrogen fertilizers ..	4,304	7,385	2,210	1,391	2,606	1,099
St. Kitts—						
Nitrogen fertilizers ..	2,410	2,308	2,380	1,815	2,155	2,306
St. Lucia—						
Nitrogen fertilizers ..	<i>n.a.</i>	<i>n.a.</i>	331	350	640	445
St. Vincent—						
Ammonium sulphate ..	793	785	653	325	1,135	868
Trinidad and Tobago—						
Ammonium sulphate ..	13,097	13,431	14,043	660	—	(a) 390
British Guiana—						
Ammonium sulphate ..	17,648	17,755	18,531	17,927	19,855	<i>n.a.</i>
Ceylon—						
Ammonium sulphate ..	121,398	97,638	142,029	128,863	138,588	170,669
Cyanamide ..	244	58	49	121	78	24
Cyprus—						
Ammonium sulphate ..	16,049	17,529	13,798	15,586	21,256	21,798
Ammonium chloride ..	5	—	—	—	—	—
Other nitrogen fertilizers	12,391	8,076	14,627	6,217	10,819	9,293

(a) Excess of re-exports.

IMPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES (cont.)						
Hong Kong—						
Nitrate of potash ..	595	1,079	621	378	585	991
Nitrate of soda ..	—	—	363	401	539	559
Ammonium sulphate ..	25,663	60,602	27,889	2,179	64,472	32,052
Synthetic nitrates ..	449	65,281	16	21	37,103	9,805
Ammonium chloride ..	892	909	709	763	26,971	1,067
India—						
Nitrate of soda ..	17,193	7,528	36,876	(a) 13,261	(a) 19,844	(a) 21,771
Ammonium sulphate ..	84,110	182,535	248,158	(a) 248,589	(a) 238,243	(a) 564,238
Ammonium phosphate ..	10	47	228	(a) 5	(a) 8	(a) 9,846
Ammonium chloride ..	330	257	190	(a) 17	(a) 11	(a) 1
Other nitrogen fertilizers	634	15,301	28,332	(a) 45,462	(a) 44,619	(a) 21,573
Malaya—						
Nitrogen fertilizers ..	79,306	72,425	91,785	106,863	118,936	120,383
Anhydrous ammonia ..	1,984	1,895	2,956	4,242	3,878	4,905
North Borneo—						
Ammonium sulphate ..	366	320	363	531	327	728
Other nitrogen fertilizers	27	1	—	31	115	35
Pakistan—						
Nitrate of soda ..	—	—	—	55,224	160	241
Ammonium sulphate ..	(b) 145,426	n.a.	—	29,683	103,860	107,164
Ammonium chloride ..	28	8	—	128	523	443
Anhydrous ammonia ..	96	34	14	100	83	24
Sarawak—						
Ammonium sulphate ..	1,735	1,239	1,570	539	290	3,698
Other nitrogen fertilizers	r 30	158	63	55	177	358
Australia (c)—						
Nitrate of potash ..	347	470	354	451	519	355
Nitrate of soda ..	11,219	14,430	7,505	6,837	5,670	6,941
Ammonium chloride ..	2	104	150	50	90	1,662
Ammonium sulphate ..	28,251	20,945	19,979	11	110	17,993
Ammonium nitrate ..	1,566	461	478	162	469	576
Other nitrogen fertilizers	17	2,121	n.a.	n.a.	n.a.	n.a.
New Zealand—						
Nitrate of potash ..	80	138	144	128	196	116
Nitrate of soda ..	2,911	2,995	1,829	2,971	3,781	2,320
Ammonium sulphate ..	5,188	r 5,314	r 5,818	7,736	8,226	6,608
Ammonium chloride ..	297	276	512	407	784	n.a.
Ammonium nitrate ..	3,856	2,952	3,194	5,696	5,624	1,913
Anhydrous ammonia ..	66	54	66	62	38	83
Cyanamide ..	—	49	—	—	—	23
Irish Republic—						
Nitrate of soda ..	3,989	4,001	6,150	4,276	4,316	4,350
Ammonium sulphate ..	62,082	70,195	72,414	83,090	94,378	97,135
Anhydrous ammonia ..	68	95	100	107	110	113
Ammonium nitrate ..	14,909	17,353	20,471	20,253	26,449	29,063
Other nitrogen fertilizers	—	377	422	650	699	427
OTHER COUNTRIES						
Austria—						
Nitrate of lime ..	2,356	1,871	1,050	1,303	927	798
Nitrate of potash ..	252	264	279	367	428	320
Cyanamide ..	1,618	1,844	1,875	1,640	2,251	2,949
Belgium-Luxemburg						
E.U.—						
Nitrate of potash ..	1,731	1,962	2,053	2,007	2,279	2,156
Nitrate of soda ..	43,163	22,808	27,252	21,356	22,876	23,910
Nitrate of lime ..	1,713	1,309	9,010	15,804	5,816	10,299

(a) Years ended March 31 following that stated.

(c) Years ended June 30 of that stated.

(b) Including purchases on Government account.

IMPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Belgium-Luxemburg						
<i>E.U. (cont.)—</i>						
Cyanamide	219	292	359	486	479	384
Ammonium sulphate ..	6,103	3,938	8,668	9,754	7,808	11,142
Ammonium chloride ..	2,021	1,359	2,213	2,462	1,892	2,314
Ammonium nitrate ..	5,004	15,876	32,216	14,856	24,162	21,705
Anhydrous ammonia ..	666	252	4	57	<i>n.a.</i>	<i>n.a.</i>
Czechoslovakia—						
Nitrogen fertilizers (a)	17,000	13,000	16,000	33,630	37,000	21,000
Denmark—						
Nitrate of potash ..	913	956	843	1,188	879	1,034
Nitrate of soda ..	26,168	8,918	16,379	20,134	16,092	11,079
Nitrate of lime ..	609,616	577,035	582,172	685,176	728,911	727,037
Ammonium sulphate ..	8,453	11,043	13,568	14,298	10,501	9,975
Ammonium chloride ..	730	575	864	832	966	695
Ammonium nitrates ..	10,759	12,326	6,970	r 7,904	14,728	25,279
Cyanamide	142	110	221	117	160	120
Finland—						
Nitrate of potash ..	114	115	249	140	263	383
Nitrate of soda ..	80	352	325	307	386	356
Nitrate of lime ..	19,144	29,393	39,621	95,534	69,352	60,311
Ammonium nitrate ..	3,161	4,534	3,855	4,232	33,327	2,918
Ammonium sulphate ..	56,945	50,254	32,098	42,478	34,221	34,336
Ammonium chloride ..	512	300	791	671	1,002	694
France—						
Nitrate of soda ..	92,847	99,229	69,216	72,163	66,823	63,885
Nitrate of lime, etc. ..	51	65	20	—	—	119
Ammonium sulphate ..	520	1,982	22,045	25,090	22,977	25,007
Ammonium nitrate ..	151	161	43	5	3,768	39,402
Ammonium chloride ..	1,768	2,093	1,859	1,554	1,572	1,710
Anhydrous ammonia ..	4,558	316	1,651	4,809	7,030	9,530
Cyanamide	13,881	14,781	7,346	27	192	492
Germany (Federal)—						
Nitrate of potash ..	79	186	331	337	756	1,069
Nitrate of soda ..	11,411	20,543	16,661	15,025	13,021	12,859
Ammonium nitrates ..	—	20	2,756	10,088	21,074	26,817
Greece—						
Nitrate of potash ..	52	132	109	123	89	95
Nitrate of soda ..	776	17,675	6,593	r 1,972	2,362	2,882
Ammonium nitrate ..	15,984	86,688	96,387	77,670	49,145	40,174
Ammonium sulphate ..	142,929	202,264	141,028	130,834	129,696	159,907
Ammonium chloride ..	218	193	162	186	186	250
Lime ammonium nitrate	4,927	11,546	1,847	} 34,068	56,778	74,484
Other nitrogen fertilizers	26,553	25,860	35,918			
Hungary—						
Nitrogen fertilizers ..	166,940	163,635	180,798	150,249	147,779	299,208
Iceland—						
Nitrate of lime	25	44	—	30	177	198
Lime ammonium nitrate	—	—	8,857	1,968	—	30
Nitrophoska	1,033	1,230	1,526	1,673	2,116	—
Italy—						
Nitrate of potash ..	886	638	964	1,240	758	727
Nitrate of soda ..	44,507	45,933	40,428	8,500	15,571	9,723
Nitrate of lime	3,789	6,552	—	—	—	—
Ammonium chloride ..	347	766	489	373	444	488
Ammonium nitrate ..	3,437	3,448	3,284	2,341	3,284	3,397
Ammonium sulphate ..	615	3,248	1,586	114	853	3,256
Cyanamide	—	15	21	81	—	324
Netherlands—						
Nitrate of potash ..	1,827	1,470	1,755	1,293	1,841	2,477
Nitrate of soda ..	11,457	36,267	32,768	10,660	24,643	29,357
Nitrate of lime	—	—	1	3,730	1	13

(a) N content.

IMPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Netherlands <i>(cont.)</i> —						
Ammonium sulphate ..	265	1,045	83	1,330	2,009	245
Ammonium chloride ..	1,077	1,254	1,463	1,787	1,401	1,460
Ammonium nitrate ..	7,390	9,707	20,212	56,249	67,371	78,408
Lime ammonium nitrate ..	48,834	6,478	16,619			
Cyanamide ..	6,447	3,062	4,404	872	3,221	3,300
Anhydrous ammonia ..	7,855	1,139	9,968	1,585	<i>n.a.</i>	<i>n.a.</i>
Ammonium phosphates ..	5,644	10,563	6,515	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Other nitrogen fertilizers	5,279	22,950	17,051	17,330	17,797	16,060
Norway—						
Nitrate of potash ..	258	155	146	164	156	215
Ammonium chloride ..	<i>n.a.</i>	<i>n.a.</i>	210	242	331	336
Ammonium sulphate ..	246	246	319	343	354	456
Anhydrous ammonia ..	48,883	19,380	1,481	—	—	13,612
Poland—						
Nitrogen fertilizers ..	<i>n.a.</i>	47,200	8,500	64,000	27,400	<i>n.a.</i>
Portugal—						
Nitrate of potash ..	309	415	377	321	402	291
Nitrate of soda ..	3,118	17,145	14,529	9,056	8,050	4,595
Nitrate of lime ..	12,018	14,886	11,318	7,984	6,681	—
Ammonium sulphate ..	122,420	84,999	39,551	46,828	28,145	—
Ammonium chloride ..	120	133	101	145	167	102
Ammonium nitrate ..	3,182	4,003	13,009	11,283	5,918	1,575
Cyanamide ..	1,947	486	974	974	—	—
Lime ammonium nitrate ..	49,086	68,794	67,756	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Nitrophoska ..	7,130	6,625	10,443	9,727	11,853	15,022
Anhydrous ammonia ..	106	85	84	3	15,849	2,872
Roumania—						
Nitrogen fertilizers (a)	<i>n.a.</i>	9,300	7,800	8,500	4,400	1,200
Spain—						
Nitrate of soda ..	103,714	158,308	144,268	72,429	83,605	135,790
Ammonium sulphate ..	347,836	455,143	710,688	297,570	513,250	591,856
Nitrate of lime ..	32,307	77,987	176,581	123,149	83,422	131,325
Other nitrogen fertilizers	100,742	95,505	89,868	60,378	59,974	38,802
Sweden—						
Nitrate of potash ..	839	801	838	976	873	1,129
Nitrate of soda ..	42,076	29,050	31,446	31,033	39,410	27,813
Nitrate of lime ..	334,302	309,142	332,304	340,122	328,165	352,820
Ammonium nitrate ..	571	1,143	168	75	79	36
Ammonium sulphate ..	11,064	12,213	12,235	21,647	16,500	9,281
Ammonium chloride ..	878	1,002	1,093	1,238	1,182	1,215
Switzerland—						
Nitrates of potash and soda ..	641	938	2,035	808	604	842
Ammonium sulphate, etc. ..	96	328	452	505	544	607
Ammonium chloride ..	640	630	689	1,197	830	793
Yugoslavia—						
Nitrate of potash ..	—	10	—	—	—	—
Nitrate of soda ..	—	—	9,842	14,763	40	207
Ammonium sulphate ..	—	34,095	—	13,811	19,988	46,480
Ammonium nitrate ..	<i>n.a.</i>	10,067	1,120	—	129	12,861
Lime ammonium nitrate ..	275,121	356,017	348,888	333,011	314,847	467,631
Algeria—						
Nitrate of potash ..	181	241	244	151	<i>n.a.</i>	<i>n.a.</i>
Nitrate of soda ..	1,358	1,619	1,307	794	<i>n.a.</i>	<i>n.a.</i>
Nitrate of lime ..	4,181	5,812	3,410	3,986	<i>n.a.</i>	<i>n.a.</i>
Ammonium chloride ..	438	212	7	18	<i>n.a.</i>	<i>n.a.</i>
Ammonium sulphate ..	18,635	21,956	21,495	19,264	<i>n.a.</i>	<i>n.a.</i>
Ammonium nitrate ..	17,142	26,074	24,980	29,362	<i>n.a.</i>	<i>n.a.</i>
Cyanamide ..	39	113	88	129	<i>n.a.</i>	<i>n.a.</i>

(a) N content.

IMPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES (cont.)						
Angola—						
Ammonium sulphate ..	2,953	9,922	4,549	4,097	3,887	4,811
Cameroun—						
Nitrogen fertilizers ..	3,048	4,220	6,678	5,706	6,319	10,743
Canary Islands—						
Ammonium sulphate ..	49,602	58,506	67,356	60,085	51,095	62,688
Nitrate of lime ..	489	3,445	3,876	—	549	689
Other nitrogen fertilizers	1,974	3,490	7,421	1,946	5,722	6,249
Congo Republic—						
Ammonium chloride ..	72	85	17	n.a.	n.a.	n.a.
Nitrogen fertilizers ..	4,509	4,186	3,695	n.a.	n.a.	n.a.
Egypt—						
Nitrate of soda ..	43,354	57,492	49,368	18,715	36,805	248
Nitrate of lime ..	11,478	10,051	11,124	18,211	—	—
Ammonium sulphate ..	151,582	159,867	147,036	94,438	195,325	60,374
Ammonium chloride ..	661	1,364	308	179	299	—
Ammonium nitrate ..	360,833	440,892	127,880	432,692	181,313	44,293
Ammonium sulpho-nitrate ..	40,071	30,514	1,968	20,531	—	187,760
Malagasy Republic—						
Nitrogen fertilizers ..	3,151	3,386	1,808	2,476	2,150	1,354
Morocco—						
Nitrate of potash ..	9	111	21	26	62	308
Nitrate of soda ..	583	640	483	300	293	228
Nitrate of lime ..	1,010	1,154	1,125	725	524	829
Ammonium nitrate ..	6,352	12,450	11,579	11,361	12,467	16,329
Ammonium sulphate ..	7,358	12,130	13,725	14,126	18,984	24,240
Other nitrogen fertilizers	2,593	2,716	1,797	2,641	1,676	3,949
Reunion—						
Nitrogen fertilizers ..	8,261	r 8,433	r 7,627	11,051	10,794	7,797
South Africa—						
Nitrate of potash ..	243	195	199	329	605	849
Nitrate of soda ..	1,004	803	955	1,010	1,459	1,008
Ammonium sulphate ..	53,328	45,119	42,945	39,161	50,833	60,599
Ammonium chloride ..	1,039	2,192	1,380	1,557	2,116	801
Ammonium nitrate ..	6,674	11,914	16,020	r 49,928	33,626	21,957
Sudan—						
Synthetic nitrate of soda, calcium and ammonia ..	8,525	10,226	11,797	15,238	26,233	} 62,019
Other nitrogen fertilizers	28,559	24,742	21,824	34,162	41,521	
Tunisia—						
Nitrogen fertilizers ..	6,169	11,303	10,366	11,827	12,596	13,289
Costa Rica—						
Nitrogen fertilizers ..	12,504	13,634	19,796	14,105	13,416	16,613
Cuba—						
Nitrate of potash ..	10,304	7,972	953	n.a.	n.a.	n.a.
Nitrate of soda ..	5,862	2,319	725	n.a.	n.a.	n.a.
Ammonium nitrate ..	211	190	2,033	n.a.	n.a.	n.a.
Ammonium sulphate ..	57,503	52,349	72,597	n.a.	n.a.	n.a.
Anhydrous ammonia ..	12,127	6,420	4,813	n.a.	n.a.	n.a.
Dominican Republic—						
Ammonium sulphate ..	21,385	13,387	38,332	7,506	33,938	n.a.
French West Indies—						
Guadeloupe—						
Nitrogen fertilizers ..	n.a.	n.a.	2,269	4,624	3,194	1,578
Martinique—						
Nitrogen fertilizers ..	n.a.	n.a.	9,219	11,788	10,436	8,310
Guatemala—						
Nitrate of soda ..	n.a.	n.a.	124	505	1,019	299
Other nitrogen fertilizers	n.a.	n.a.	9,005	13,039	10,872	7,291
Honduras—						
Nitrogen fertilizers ..	14,055	12,315	14,561	11,849	11,731	11,936

IMPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Mexico—						
Nitrate of soda ..	14,433	9,698	15,261	11,276	8,571	9,125
Ammonium chloride ..	535	596	515	646	837	343
Ammonium sulphate ..	8,094	9,194	24,510	621	1	3
Ammonium nitrate ..	33,118	41,372	25,932	9,286	11,411	826
Anhydrous ammonia ..	16,028	26,038	39,043	61,452	62,983	34,785
Nicaragua—						
Nitrate of soda ..	—	494	397	—	101	<i>n.a.</i>
Other nitrogen fertilizers	781	1,566	1,421	2,466	6,266	11,777
Panama Republic—						
Nitrogen fertilizers ..	<i>n.a.</i>	9,373	9,860	11,172	14,670	<i>n.a.</i>
Salvador—						
Nitrate of soda ..	<i>n.a.</i>	<i>n.a.</i>	981	296	1,069	1,383
Other nitrogen fertilizers	<i>n.a.</i>	<i>n.a.</i>	37,363	47,774	52,886	50,026
United States—						
Nitrates of potash and soda, crude ..	22,672	20,989	32,561	r 16,636	12,322	26,344
Nitrate of potash ..	2,011	2,314	2,080	r 2,739	3,961	6,761
Nitrate of soda ..	522,272	398,304	412,290	317,064	441,379	387,996
Nitrate of lime ..	53,621	78,970	61,472	55,378	65,837	51,935
Ammonium sulphate ..	147,079	166,858	194,172	188,706	216,845	215,177
Ammonium chloride ..	2,234	2,781	4,088	5,789	5,268	4,607
Ammonium nitrate ..	315,004	299,358	304,497	r 219,249	222,521	302,322
Ammonium phosphates	151,313	141,716	192,596	107,087	100,887	75,034
Cyanamide ..	51,695	51,191	52,143	39,375	37,488	32,987
Argentina—						
Nitrate of potash ..	—	—	15	156	68	2
Nitrate of soda ..	23,765	41,194	30,367	1,493	16,352	13,791
Ammonium sulphate ..	21,807	19,397	18,650	7,820	12,580	4,324
Brazil—						
Nitrate of potash ..	909	494	602	1,337	749	802
Nitrate of soda ..	49,746	50,092	48,237	36,151	53,131	32,122
Nitrate of potash and soda ..	11,379	—	7,690	15,841	2,989	12,104
Ammonium chloride ..	502	1,088	763	1,292	1,617	1,948
Ammonium nitrate ..	14,499	18,211	13,916	18,179	8,884	5,758
Ammonium sulphate ..	55,153	88,357	84,724	154,889	124,441	115,893
Cyanamide ..	139	253	31	323	133	165
Other nitrogen fertilizers	4,591	14,961	9,462	12,926	9,685	7,324
Chile—						
Ammonium chloride ..	315	316	241	180	<i>n.a.</i>	<i>n.a.</i>
Ammonium sulphate ..	115	95	89	224	<i>n.a.</i>	<i>n.a.</i>
Ammonium nitrate ..	3,342	2,497	7,113	3,197	7,368	<i>n.a.</i>
Anhydrous ammonia ..	192	99	94	48	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Nitrate of potash ..	267	283	222	205	247	208
Nitrate of soda ..	394	143	—	79	30	384
Ammonium chloride ..	246	145	354	292	540	478
Ammonium sulphate ..	2,987	4,871	1,166	7,163	9,728	4,758
Other nitrogen fertilizers	28,410	15,216	10,186	17,145	19,766	17,047
Anhydrous ammonia ..	140	133	95	161	133	207
Ecuador—						
Nitrogen fertilizers ..	5,203	3,343	5,814	<i>n.a.</i>	4,322	3,656
Peru—						
Nitrate of potash ..	66	71	78	129	76	63
Nitrate of soda ..	15,334	14,760	9,507	10,479	6,254	5,696
Anhydrous ammonia ..	194	181	195	68	37	24
Other nitrogen fertilizers	43,766	65,706	84,738	114,414	107,720	121,955
Uruguay—						
Nitrate of potash ..	595	914	2	111	<i>n.a.</i>	<i>n.a.</i>
Nitrate of soda ..	907	2,084	504	619	<i>n.a.</i>	<i>n.a.</i>
Ammonium sulphate ..	10,133	8,974	4,194	4,921	<i>n.a.</i>	<i>n.a.</i>

IMPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Venezuela—						
Nitrate of potash ..	126	51	158	137	172	105
Nitrate of soda ..	362	545	912	651	377	478
Nitrate of lime ..	—	1	32	1,769	4,090	—
Ammonium sulphate ..	17,645	14,880	21,040	17,333	18,894	19,146
Cyanamide ..	—	—	103	—	1	—
Burma—						
Nitrogen fertilizers ..	8,545	2,972	19	10,361	207	180
Formosa—						
Nitrate of soda ..	913	545	483	237	287	<i>n.a.</i>
Ammonium chloride ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	173	1,322	633
Ammonium sulphate ..	180,625	418,679	477,107	291,426	187,826	231,550
Other nitrogen fertilizers	1,230	6,070	5,138	40,966	46,672	71,978
Indonesia—						
Nitrate of potash ..	199	142	219	181	76	<i>n.a.</i>
Nitrate of soda ..	163	202	—	219	23	<i>n.a.</i>
Ammonium chloride ..	509	389	301	311	575	<i>n.a.</i>
Ammonium sulphate ..	148,173	106,871	208,573	139,950	116,902	<i>n.a.</i>
Anhydrous ammonia ..	1,333	809	1,124	920	1,654	<i>n.a.</i>
Other nitrogen fertilizers	1,465	1,736	662	6,167	57,216	<i>n.a.</i>
Iraq—						
Nitrogen fertilizers ..	937	1,216	716	2,859	<i>n.a.</i>	<i>n.a.</i>
Israel—						
Ammonium sulphate ..	295	—	—	—	—	—
Nitrogen fertilizers ..	3,848	7,944	6,858	2,954	—	19,916
Japan—						
Nitrate of soda ..	11,909	13,578	15,831	16,354	20,285	18,701
Ammonium sulphate ..	536	—	—	3,839	886	2
Jordan—						
Nitrogen fertilizers ..	488	1,275	1,811	805	1,958	2,628
Korea (South)—						
Ammonium sulphate ..	8,431	471,998	391,960	508,218	573,008	602,762
Ammonium nitrate ..	<i>n.a.</i>	32,434	22,613	24,180	2,416	14,114
Ammonium chloride ..	<i>n.a.</i>	417	743	453	461	<i>n.a.</i>
Cyanamide ..	<i>n.a.</i>	511	518	1,380	1,806	<i>n.a.</i>
Lebanon—						
Nitrogen fertilizers ..	25,191	22,337	26,158	36,787	42,275	<i>n.a.</i>
Philippine Republic—						
Nitrate of potash ..	1,482	105	989	3,512	<i>n.a.</i>	<i>n.a.</i>
Nitrate of soda ..	—	—	—	142	309	1,123
Ammonium phosphate ..	39,840	2,781	24,365	21,301	24,858	19,708
Ammonium sulphate ..	50,241	19,643	95,269	47,955	60,050	102,754
Other nitrogen fertilizers	<i>n.a.</i>	46,089	30,504	34,959	33,283	35,785
Syria—						
Nitrogen fertilizers ..	13,877	24,198	19,824	30,908	46,198	38,307
Thailand—						
Nitrate of potash ..	1,052	823	829	787	705	743
Ammonium chloride ..	361	513	595	741	1,358	1,297
Ammonium sulphate ..	21,108	17,351	22,321	28,757	29,621	28,520
Other nitrogen fertilizers	1,007	2,158	433	2,289	2,383	2,765
Turkey—						
Nitrate of soda ..	1,588	440	5	1,476	1,434	348
Ammonium chloride ..	122	372	549	198	775	507
Ammonium sulphate ..	38,599	32,183	88,368	39,583	121,679	136,731
Ammonium nitrate ..	915	4,516	1,126	1,366	2,038	6,302
Vietnam (South)—						
Nitrogen fertilizers ..	23,224	40,415	80,859	54,552	48,582	53,504

PETROLEUM AND ALLIED PRODUCTS

PRODUCTION OF CRUDE PETROLEUM*

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Crude petroleum	82,000	79,900	82,700	85,400	105,800	110,900
Shale oil	71,100	63,400	60,500	59,900	43,100	15,500
Nigeria (b)	1,200	270,000	557,000	867,000	2,302,000	3,357,000
Canada (b)	24,246,401	22,066,159	24,637,133	25,271,229	29,448,165	32,551,874
Barbados (b)	—	—	20	419	241	18
Trinidad (b)	4,866,278	5,336,437	5,845,542	6,051,047	6,538,253	6,982,306
Bahrain Islands (c)	1,593,000	2,004,000	2,199,000	2,213,000	2,213,000	2,213,000
British Borneo—						
Brunei	5,458,923	5,089,492	5,262,702	4,473,867	4,015,618	3,720,253
Sarawak	65,906	56,902	54,708	59,442	59,498	57,274
India (b)	421,769	419,000	434,250	r 442,240	499,000	1,005,000
Pakistan (b)	314,240	324,600	333,400	376,600	404,200	476,900
Qatar (c)	6,504,814	8,091,813	7,866,650	8,083,032	8,249,305	8,670,919
Trucial States (c)	—	—	—	—	—	729,000
New Zealand	838	784	771	783	627	569
TOTAL	43,626,000	43,803,000	47,334,000	r47,984,000	53,879,000	59,891,000
OTHER COUNTRIES						
Albania	482,030	397,000	471,000	720,000	760,000	780,000
Austria	3,135,286	2,791,599	2,419,951	2,409,722	2,318,657	2,355,883
Bulgaria	280,000	218,000	189,000	197,000	203,000	196,000
Czechoslovakia	106,000	104,000	121,000	135,000	152,000	174,000
France	1,395,108	1,368,637	1,590,169	1,941,896	2,129,211	2,333,000
Germany (Federal)—						
Crude petroleum	3,897,104	4,361,605	5,022,167	5,442,555	6,106,467	6,669,330
Shale oil	21,530	r 22,958	r 21,313	19,805	15,946	1,899
Hungary	663,000	r 817,248	r 1,019,551	r 1,197,475	1,432,000	1,615,000
Italy	1,241,627	r 1,521,301	1,668,663	1,966,561	1,940,487	1,779,047
Netherlands	1,497,269	1,595,573	1,745,207	1,887,382	2,014,169	2,123,000
Poland	177,700	172,200	172,100	191,000	200,000	200,000
Roumania	11,003,713	11,157,266	11,257,190	11,318,724	11,399,107	11,676,293
U.S.S.R.	96,793,000	111,417,000	127,600,000	145,000,000	163,000,000	183,000,000
Yugoslavia	389,313	454,855	583,128	928,662	1,319,574	1,501,393
Algeria (e)	18,704	432,041	1,215,000	8,395,700	15,538,173	20,174,000
Angola	9,882	49,833	49,721	65,794	102,780	463,793
Congo (Republic of)	—	—	—	51,028	101,313	121,440
Egypt	2,359,000	r 3,134,000	r 3,347,000	r 3,450,000	3,759,000	4,590,000
Gabon	173,796	497,000	741,433	787,470	762,217	813,958
Libya	—	—	—	—	861,000	8,691,000
Morocco	73,910	73,153	93,079	90,877	78,740	125,296
Senegal	—	—	—	1,600	2,100	400
South Africa—						
Shale oil (a)	24,850	23,948	26,125	25,062	6,045	—
Cuba (b)	56,000	45,000	26,000	(d) 15,000	(d) 10,000	(d) 12,000
Mexico (b)	12,496,000	13,338,000	13,576,000	13,951,000	15,040,000	15,750,000
United States (b)	348,920,100	326,535,500	343,278,700	343,324,400	349,567,700	356,824,700
Argentina	4,781,345	5,002,481	6,278,900	9,001,100	11,879,800	13,820,300
Bolivia (b)	470,100	451,700	416,800	408,900	355,800	342,200
Brazil (b)	1,357,134	2,545,552	r3,173,389	r 3,983,298	4,462,400	4,282,000
Chile	556,000	715,000	825,000	928,000	1,189,000	1,500,000
Colombia (b)	6,442,880	6,605,735	7,545,600	7,855,000	7,500,000	7,311,000
Ecuador (b)	425,093	409,718	367,545	367,206	389,861	342,806

*Excluding Natural Gasoline. See page 243.

(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, India 7.4, Pakistan 7.0, Cuba 7.5, Mexico 7.1, United States 7.5, Argentina 7.1, Bolivia 7.6, Brazil 7.4 (1957—1960) 7.8 (1961 onwards), Colombia 7.1, Ecuador 7.5, Venezuela 6.95, Indonesia 7.5.

(c) British Protected State.

(d) Estimated.

(e) Including French Sahara.

PRODUCTION OF CRUDE PETROLEUM (cont.)

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Peru	2,523,040	2,458,907	2,324,000	2,497,000	2,550,000	2,400,000
Venezuela	146,753,000	136,697,000	145,417,118	149,767,000	153,229,000	167,827,000
Burma	399,779	469,321	536,047	551,086	566,806	590,021
China (a)	1,440,000	2,220,000	3,400,000	5,000,000	6,600,000	(e)6,500,000
Formosa	2,310	1,980	1,720	1,870	2,190	1,850
Indonesia	r15,224,134	r15,855,185	17,930,538	20,270,726	20,948,230	22,430,000
Iran (b)	34,765,000	39,780,000	46,709,000	50,991,000	57,094,000	63,461,000
Iraq	21,558,279	35,128,861	41,080,000	46,709,000	48,050,000	47,453,000
Israel	57,000	100,439	120,000	129,000	135,000	131,000
Japan	314,000	359,000	397,000	514,000	642,000	743,608
Kuwait	56,375,946	69,117,138	68,437,498	80,570,000	81,410,000	90,720,000
Netherlands New Guinea (c)	326,486	262,782	241,106	244,579	164,791	n.a.
Saudi Arabia	48,229,690	49,399,006	53,307,390	61,087,931	68,138,424	74,554,207
Turkey	293,430	322,700	367,000	356,760	418,071	586,004
Neutral Zone (d)	3,348,000	4,282,000	6,110,000	7,175,000	9,271,000	12,810,000
TOTAL	830,800,000	852,700,000	r921,200,000	r992,000,000	1,054,000,000	1,140,000,000
WORLD'S TOTAL	874,400,000	896,500,000	r968,500,000	r1,040,000,000	1,108,000,000	1,200,000,000

(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	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Canada	110,018	111,146	158,748	158,495	213,068	227,380
Trinidad (a)	30,100	26,196	24,694	23,686	21,539	22,024
Brunei	69,668	71,508	70,793	64,465	63,289	65,040
New Zealand	—	—	—	—	—	374
OTHER COUNTRIES						
France	19,144	34,192	101,895	159,872	214,272	261,000
Italy	64,893	r 63,873	58,954	58,007	56,239	54,209
Poland	18,300	18,100	18,100	18,800	19,900	n.a.
Roumania	219,000	231,000	254,000	283,000	303,000	n.a.
Yugoslavia	4,000	4,000	5,000	6,000	5,000	n.a.
Egypt	6,100	r 8,000	r 10,000	10,000	9,000	n.a.
Mexico	455,000	823,000	1,085,000	1,126,000	1,162,000	n.a.
United States	b12,283,980	b11,889,560	b11,527,120	11,297,570	11,635,440	12,027,560
Argentina	9,018	9,501	11,000	12,000	10,000	n.a.
Chile	13,866	16,929	20,809	20,000	18,000	n.a.
Colombia	142,788	144,322	90,967	80,572	75,633	73,335
Ecuador	18,849	18,033	15,210	14,560	14,480	12,590
Peru	106,074	87,419	n.a.	n.a.	n.a.	n.a.
Venezuela	436,515	503,629	525,202	403,096	399,397	383,911
Formosa	367	259	236	n.a.	n.a.	n.a.
Japan	3,100	1,700	2,000	6,000	6,000	10,796
WORLD'S TOTAL (c)	r14,010,000	r14,060,000	14,000,000	14,000,000	14,000,000	15,000,000

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

(b) Including isopentane.

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

PRODUCTION OF NATURAL GAS*

Million cubic feet

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom	—	35	35	35	106	115
Canada	220,007	337,804	417,335	522,972	655,738	946,703
Barbados	108	98	94	343	249	120
Trinidad	65,418	79,191	94,417	97,652	106,600	99,948
Brunei	2,671	2,609	2,694	2,879	2,844	2,830
Pakistan	15,349	19,308	22,365	29,842	34,665	42,076
New Zealand	7	5	5	5	5	4
OTHER COUNTRIES						
Austria	26,787	28,968	39,835	51,844	54,952	57,734
Czechoslovakia	27,260	44,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
France	20,711	37,344	92,318	158,106	213,966	247,100
Germany (Federal)	16,378	16,588	19,377	22,699	26,015	32,729
Hungary	14,437	<i>r</i> 13,374	<i>r</i> 11,804	<i>r</i> 12,065	11,431	12,000
Italy	176,118	<i>r</i> 182,780	216,040	227,682	242,341	252,496
Netherlands	5,860	7,350	8,830	<i>r</i> 12,700	17,200	19,600
Poland	14,800	13,564	14,980	19,400	25,900	29,000
Roumania	163,605	179,233	204,202	230,205	254,200	312,100
U.S.S.R. (a)	656,250	991,820	1,249,800	1,599,900	2,082,900	<i>n.a.</i>
Yugoslavia	1,466	1,627	1,765	1,869	2,428	3,366
Algeria (Sahara)	—	—	—	—	21,600	30,700
Gabon	—	—	244	263	237	310
Morocco	119	65	146	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Tunisia	213	206	223	253	256	253
Mexico	163,952	262,662	329,408	341,311	360,564	371,000
United States	10,680,258	11,030,298	12,046,115	12,771,038	13,254,025	13,876,622
Argentina	49,945	58,400	25,700	37,400	<i>n.a.</i>	<i>n.a.</i>
Bolivia	280	200	250	210	<i>n.a.</i>	<i>n.a.</i>
Brazil	5,551	10,611	<i>r</i> 15,095	18,889	18,604	18,100
Colombia	(b) 22,400	(b) 28,000	<i>r</i> 12,700	<i>r</i> 14,300	14,800	13,000
Peru	44,272	45,171	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Venezuela	1,134,456	1,113,031	1,124,264	1,114,578	1,169,817	1,281,967
Burma	225	325	178	730	333	634
Formosa	1,105	981	930	898	1,309	1,356
Indonesia	76,560	73,600	79,415	86,576	91,455	95,800
Iran	25,600	26,300	32,055	<i>r</i> 33,558	34,720	37,143
Japan	8,604	12,992	17,896	25,831	33,559	42,712

*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: 1957—291; 1958—334; 1959—477; 1960—642; 1961—727; 1962—683.

Shipments: 1957—310; 1958—352; 1959—375; 1960—475; 1961—552; 1962—600.

(a) Probably includes artificial gas obtained as a by-product of processing coal and shale.

(b) Including gas repressured.

PRODUCTION OF ASPHALT ROCK

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
France	69,972	86,048	89,366	95,451	94,561	101,800
Germany (Federal)	96,141	84,226	86,302	88,485	81,025	97,329
Italy	327,740	277,548	405,706	402,176	334,477	301,908
Angola	21,181	34,175	27,500	25,376	22,423	35,400
United States (a)	1,043,310	1,184,369	1,356,040	1,109,709	1,014,000	1,067,200
Philippine Republic	1,081	2,445	11,601	18,081	6,546	6,824
Syria	20,529	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

(a) Sales.

PRODUCTION OF NATURAL ASPHALT, ETC.

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Trinidad	135,930	133,042	145,418	154,296	176,755	162,326
OTHER COUNTRIES						
Spain	11,158	10,115	8,107	8,667	8,915	<i>n.a.</i>
United States (a)— Gilsonite	185,450	283,286	338,716	341,997	377,100	403,300
Argentina— Grahamite ("Rafaelite") (b)	1,393	1,832	1,553	2,125	1,152	713
Impsonite	25,365	19,226	10,600	6,200	3,600	<i>n.a.</i>
Iraq	91,731	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

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) Sales.

(b) Exports.

PRODUCTION OF OIL-SHALE

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom	902,062	740,974	708,476	668,816	467,813	156,000
OTHER COUNTRIES						
Austria	694	320	224	751	542	606
France	40,538	2,552	2,904	2,632	4,046	3,000
Germany (Federal) (c)	403,877	394,420	410,662	373,231	306,230	96,428
Italy	89	153	108	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Spain	728,231	760,908	831,482	819,361	842,908	<i>n.a.</i>
Sweden (b)	2,113,159	2,030,390	2,878,763	3,649,767	3,649,767	<i>n.a.</i>
South Africa (a)	<i>n.a.</i>	145,486	134,706	144,971	<i>n.a.</i>	—

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

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

(b) Alum shale. The amounts used as retort shale were as follows (long tons): 1957—1,844,214; 1958—1,774,245; 1959—2,614,052; 1960—3,316,000; 1961—*n.a.*; 1962—*n.a.*

(c) The amounts used as retort shale were as follows (long tons): 1957—*n.a.*; 1958—*n.a.*; 1959—129,237; 1960—111,039; 1961—103,648; 1962—67,898.

PRODUCTION OF PETROLEUM REFINERY PRODUCTS IN CERTAIN COUNTRIES*

Long tons

Producing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom (a)—						
Aviation and motor spirit	5,693,000	6,751,000	7,531,000	7,917,000	8,353,000	8,493,000
Other spirit	236,000	144,000	141,000	167,000	157,000	150,000
Kerosine	839,000	1,292,000	1,772,000	2,284,000	2,683,000	2,610,000
Gas oil and diesel oil ..	4,850,000	6,285,000	7,241,000	7,648,000	8,618,000	9,966,000
Fuel oil	10,611,000	12,572,000	15,599,000	18,533,000	21,150,000	21,962,000
Fuel used in refineries ..	2,073,000	2,503,000	3,032,000	3,290,000	3,470,000	3,619,000
Lubricating oil	732,000	751,000	863,000	912,000	958,000	899,000
Bitumen	841,000	860,000	961,000	1,037,000	1,133,000	1,220,000
Paraffin wax	31,000	30,000	31,000	36,000	39,000	38,000
Barbados—						
Motor spirit	—	—	—	1,505	2,057	2,484
Kerosine	—	—	—	1,852	2,127	2,102
Gas oil	—	—	—	—	375	454
Diesel oil	—	—	—	1,476	3,752	3,777
Fuel oil	—	—	—	6,702	12,181	11,159
Asphalt	—	—	—	—	790	1,321
Canada (b)—						
Aviation spirit	65,916	56,688	55,158	123,373	109,716	164,765
Motor spirit	9,902,237	9,883,168	10,947,289	11,412,518	11,654,678	12,389,273
Naphtha	111,114	139,646	157,600	198,900	201,561	186,280
Kerosine	1,331,965	1,606,601	1,771,633	1,912,900	2,007,569	2,242,058
Aviation turbine fuel ..	609,645	544,769	535,093	611,166	813,779	868,034
Gas oil, etc.	5,192,768	5,210,764	6,284,988	6,385,447	6,754,731	6,996,664
Diesel oil	3,547,553	3,101,204	3,787,358	3,837,402	3,674,460	4,131,139
Fuel oil	5,847,852	6,103,945	6,743,127	6,496,024	6,866,810	7,639,835
do. (used in refineries)	1,043,656					
Lubricating oil and grease	296,855	262,846	269,851	287,893	210,244	227,256
Coke	244,014	403,200	468,958	575,951	333,365	268,139
Asphalt	1,305,098	1,429,999	1,494,174	1,531,016	1,444,049	1,475,778
Trinidad—						
Aviation spirit	335,771	382,456	441,238	469,935	432,917	433,791
Motor spirit	1,027,572	1,235,396	1,297,949	1,214,450	1,481,959	1,516,930
White spirit	3,949	7,180	7,657	8,577	9,250	7,650
Kerosine	416,568	393,953	355,865	305,828	486,117	255,160
Aviation turbine fuel ..	(d)	(d)	(d)	(d)	(d)	1,093,405
Gas and diesel oil	1,454,500	1,709,132	1,809,615	1,824,563	2,256,397	2,397,588
Fuel oil	3,377,904	3,919,323	5,374,073	6,845,265	8,668,667	9,301,140
Lubricating oil and greases	569	338	340	331	153	278
Bitumen	56,990	39,105	40,600	29,362	34,370	37,943
Other finished products	125,350	541,480	180,003	783,362	1,047,194	69,787
Aden—						
Motor spirit	668,989	606,416	597,590	621,319	<i>n.a.</i>	<i>n.a.</i>
Kerosine	284,564	309,748	395,489	321,813	520,000	648,000
Fuel oils	3,111,110	2,688,366	2,951,510	3,092,829	3,683,000	4,281,000
Bahrain Islands (c)—						
Motor spirit	1,636,000	2,032,000	1,983,000	2,097,000	2,148,000	1,931,000
Kerosine	560,000	657,000	716,000	715,000	617,000	569,000
Jet fuel	—	—	—	—	—	746,000
Gas oil and diesel oil ..	1,928,000	2,029,000	2,097,000	2,240,000	2,443,000	2,700,000
Fuel oil	4,368,000	4,084,000	3,835,000	4,356,000	4,630,000	5,121,000
Lubricating oil	—	—	—	39,000	28,000	<i>n.a.</i>
Bitumen	94,000	67,000	75,000	104,000	109,000	87,000

*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. In the case of fuel oil this amount is shown separately for the year 1957.

(c) British Protected State.

(d) Included with "Other finished products".

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

Long tons

Producing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES (cont.)						
India—						
Motor and other spirits	1,025,000	971,000	935,960	1,030,600	1,048,700	1,142,900
Kerosine	608,000	633,010	724,340	916,550	998,940	1,149,100
Gas and diesel oils	912,010	1,173,000	1,396,750	1,574,340	1,638,410	1,762,810
Fuel oil, etc.	1,574,010	1,623,010	1,656,040	1,666,060	1,782,130	1,924,360
Lubricating oils	17,000	18,000	21,190	21,250	24,980	25,270
Bitumen	174,000	223,010	285,830	393,470	430,760	362,370
Other refined products	67,990	55,990	50,820	64,580	69,690	126,660
Pakistan—						
Motor spirit	69,700	72,000	82,000	89,000	89,000	108,000
Kerosine	16,200	13,800	14,000	19,000	24,000	28,000
Diesel oil	61,000	67,000	69,000	75,000	93,000	115,000
Fuel oil	104,000	103,000	109,000	105,000	114,000	127,000
Lubricating oil	6,000	6,000	6,000	6,000	10,000	12,000
Bitumen	13,000	16,000	12,000	20,000	20,000	22,000
Sarawak—						
Motor spirit	202,800	222,600	5,900	—	5,100	12,500
Gas and diesel oils	1,115,800	1,201,400	1,275,000	1,303,100	1,169,400	1,074,000
Fuel oil	462,300	—	—	—	11,100	43,300
Feedstocks (a)	524,400	896,400	1,090,900	1,022,600	1,075,100	1,069,800
Singapore—						
Motor spirit	—	—	—	—	—	(b) 775,000
Kerosine	—	—	—	—	—	(b) 397,000
Gas and diesel oils	—	—	—	—	—	b 1,257,000
Fuel oil	—	—	—	—	—	b 2,849,000
Australia—						
Aviation spirit	47,648	51,438	37,363	47,651	43,054	32,000
Motor spirit	2,833,009	3,223,322	3,247,875	r 3,571,457	3,871,668	3,977,000
Kerosine	52,980	108,832	128,887	r 168,844	136,941	155,000
Aviation turbine fuel	118,705	121,797	197,660	239,052	298,573	272,000
Gas and diesel oils	1,709,146	2,120,394	2,059,246	r 2,522,443	2,520,733	2,490,000
Fuel oil	2,750,508	2,743,044	2,849,518	r 3,205,877	3,737,178	4,273,000
do. (used in refineries)	557,688	668,236	775,913	r 839,058	930,286	1,079,000
Lubricating oil	34,136	31,718	31,102	30,235	22,279	15,000
Bitumen	209,844	237,366	274,399	r 279,775	288,485	299,000
Irish Republic—						
Motor spirit	—	—	108,000	278,000	301,800	319,000
Kerosine	—	—	12,000	26,000	8,000	} 9,000
Jet fuel	—	—	300	7,000	6,000	
Gas and diesel oils	—	—	170,000	406,000	445,200	463,000
Fuel oil	—	—	310,000	598,000	586,500	636,000
OTHER COUNTRIES						
Albania—						
Motor spirit	20,991	31,000	n.a.	n.a.	n.a.	n.a.
Kerosine	2,580	3,000	n.a.	n.a.	n.a.	n.a.
Diesel oil	37,606	49,000	n.a.	n.a.	n.a.	n.a.
Austria—						
Motor spirit	r 247,976	r 221,193	282,087	277,099	241,041	273,725
Kerosine	r 131,691	r 122,465	33,013	38,964	45,237	36,017
Gas oil	r 539,254	r 487,232	618,975	596,441	627,668	771,203
Fuel oil	r 888,372	r 763,919	724,022	804,319	914,453	1,194,747
Lubricating oil	r 65,391	r 57,495	r 62,889	77,431	87,432	117,497
Bitumen	r 54,419	r 62,470	64,915	66,621	85,923	111,699

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

(b) Estimated.

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

Long tons

Producing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Belgium—						
Motor spirit	1,125,000	1,329,000	1,324,000	1,362,000	1,470,000	1,541,431
Kerosine	200,600	232,100	306,200	264,300	233,300	254,781
Gas oil	1,228,000	1,551,000	1,602,000	1,705,000	1,913,000	1,498,330
Fuel oil	2,043,000	2,556,000	2,547,000	2,591,000	3,023,000	3,189,192
Lubricating oil	28,300	26,200	31,500	28,200	27,200	29,666
Asphalt, etc.	288,200	276,100	431,300	97,900	243,300	288,049
Bulgaria—						
Diesel oil	13,823	18,000	29,000	34,000	38,000	<i>n.a.</i>
Fuel oil	39,985	41,000	54,000	64,000	47,000	<i>n.a.</i>
Lubricating oil	18,034	21,000	19,000	24,000	22,000	<i>n.a.</i>
Czechoslovakia—						
Motor spirit	305,000	349,000	365,000	421,000	531,000	<i>n.a.</i>
Kerosine	108,000	68,000	56,000	82,000	85,000	116,000
Diesel oil	644,000	798,000	966,000	1,152,000	1,342,000	1,434,000
Denmark—						
Gas and diesel oil	6,647	9,284	11,184	10,872	115,812	<i>n.a.</i>
Lubricating oil	2,483	2,363	(a) 2,116	(a) 2,254	(a) 2,247	<i>n.a.</i>
Grease	1,506	2,019	(a) 3,272	4,827	(a) 3,302	<i>n.a.</i>
Asphalt	22,947	24,136	26,225	27,823	28,822	<i>n.a.</i>
France—						
Motor spirit	5,285,000	5,745,000	6,126,000	6,325,000	6,946,000	6,927,000
Kerosine	341,000	811,000	1,136,000	1,344,000	1,550,000	1,671,000
Jet fuel	<i>n.a.</i>					
Gas and diesel oil	2,867,000	3,334,000	r 3,272,000	r 3,315,000	4,274,000	4,422,000
Fuel oil	11,339,000	14,517,000	r 13,560,000	r 14,543,000	16,387,000	18,226,000
Lubricating oil	560,000	555,000	588,000	642,000	683,000	693,000
Other products (b)	2,218,000	2,474,000	r 1,958,000	r 2,242,000	2,494,000	<i>n.a.</i>
Germany (Federal)—						
Aviation spirit	360,269	428,068	594,408	757,987	832,700	839,900
Motor spirit	r 3,158,169	r 3,719,034	r 4,474,066	r 5,369,545	6,510,500	7,225,400
White spirit	104,279	100,970	98,476	116,619	129,200	134,600
Kerosine	100,432	192,445	261,308	255,625	408,900	619,400
Diesel oil	3,126,703	3,732,383	4,360,504	4,765,109	5,485,100	6,057,500
Fuel oil	2,677,668	4,281,043	8,444,428	13,143,837	17,138,300	19,018,600
Lubricating oil	363,360	390,452	421,899	473,257	509,500	555,000
Grease	10,008	12,104	12,408	16,537	16,951	17,867
Paraffin wax	48,196	47,204	48,120	57,166	69,208	76,303
Coke	247,554	254,782	296,810	302,168	342,000	382,800
Bitumen	733,955	877,183	1,060,776	1,142,057	1,365,200	1,775,600
Greece—						
Motor spirit	—	—	167,000	205,000	212,326	210,037
Kerosine	—	—	104,000	123,000	121,014	135,000
Aviation turbine fuel	—	—	88,000	70,000	66,500	44,488
Diesel oil	—	—	427,000	439,000	498,160	533,218
Fuel oil	—	—	657,000	703,000	727,606	688,877
Asphalt	—	—	39,000	41,000	36,956	46,137
Hungary—						
Motor spirit	248,000	267,827	r 296,065	r 324,190	333,057	338,000
Kerosine	50,131	46,312	44,546	49,139	63,786	<i>n.a.</i>
Gas oil	453,557	r 513,167	630,813	r 718,995	779,987	845,000
Fuel oil	589,000	671,566	r 821,478	r 972,211	1,121,609	1,262,000
Lubricating oil	43,000	31,962	26,660	29,378	29,952	<i>n.a.</i>
Italy—						
Motor spirit	3,032,293	3,398,000	3,907,182	4,947,463	5,430,611	6,478,411
White spirit	26,515	36,075	31,192	32,460	36,977	36,730
Kerosine	1,018,934	1,174,936	r 1,011,188	1,043,725	1,356,829	1,350,744
Gas oil	4,285,819	4,596,404	5,107,497	5,850,372	6,276,158	7,487,436
Fuel oil and diesel oil	9,469,454	11,711,608	12,926,305	15,104,052	17,507,015	21,268,132
Lubricating oil	147,182	151,624	150,956	163,174	152,960	169,842
Bitumen	446,003	553,304	623,842	686,100	829,117	881,570
Other products	416,343	529,394	618,084	700,571	809,004	979,362

(a) Production in major establishments only.

(b) Other than butane and propane.

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

Producing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Netherlands—						
Motor spirit	2,691,000	2,818,000	2,567,000	3,164,000	2,898,000	3,446,000
White spirit and other solvents	115,000	89,000	<i>n.a.</i>	<i>n.a.</i>	130,000	<i>n.a.</i>
Kerosine	492,000	1,200,000	1,278,000	1,405,000	1,611,000	935,000
Aviation fuels	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	950,000
Gas and diesel oil	3,132,000	3,311,000	3,381,000	4,380,000	4,668,000	5,379,000
Residual fuel oil	6,169,000	5,946,000	6,451,000	7,918,000	8,350,000	9,484,000
Lubricating oil	172,000	156,000	189,000	203,000	255,000	242,000
Bitumen	230,000	218,000	261,000	379,000	462,000	<i>n.a.</i>
Poland—						
Motor spirit	69,700	77,000	93,000	107,000	119,000	<i>n.a.</i>
Kerosine	114,000	109,000	113,000	99,000	80,000	<i>n.a.</i>
Gas and diesel oil	168,000	194,000	200,600	236,000	277,000	411,000
Fuel oil	57,000	49,000	56,000	64,000	68,000	<i>n.a.</i>
Lubricating oil	158,000	143,000	157,000	140,000	151,000	<i>n.a.</i>
Portugal—						
Motor spirit	220,521	277,967	300,673	294,669	320,203	311,814
Kerosine	118,008	136,845	202,904	202,940	164,864	150,623
Jet fuel	21,159	15,819	19,197	16,968	8,901	11,684
Gas and diesel oil	209,180	236,728	187,677	254,516	255,056	250,519
Fuel oil	362,425	399,792	412,071	r 446,668	443,453	448,473
Roumania—						
Motor spirit	2,756,076	2,775,993	2,654,958	2,747,883	2,625,182	2,362,293
Kerosine	1,412,583	1,505,298	1,258,523	1,269,037	1,214,526	1,214,977
Gas oil	1,734,778	1,778,820	2,240,735	2,338,444	2,611,434	2,864,085
Fuel oil	3,972,823	3,867,862	3,884,991	3,763,158	3,623,280	3,889,435
Bitumen	169,000	181,000	207,000	245,000	272,000	264,000
Spain—						
Motor spirit	376,741	787,000	603,000	575,000	(a) 703,000	732,000
Kerosine	118,808	231,000	263,000	257,000	(a) 294,000	367,000
Gas oil	567,883	} 806,000	855,000	855,000	a 1,213,000	1,373,000
Diesel oil	56,802		855,000	855,000	a 2,087,000	2,548,000
Fuel oil	1,582,070	1,981,000	1,943,000	2,000,000	(a) 2,087,000	2,548,000
Lubricating oil	36,000	37,000	36,000	36,000	(a) 56,000	94,000
Sweden—						
Motor spirit	243,371	224,439	331,467	372,400	<i>n.a.</i>	<i>n.a.</i>
White spirit etc.	9,467	7,635	r 6,905	r 14,134	<i>n.a.</i>	<i>n.a.</i>
Kerosine	173,988	120,609	125,159	105,200	<i>n.a.</i>	<i>n.a.</i>
Fuel oil, etc.	1,531,729	1,577,208	1,795,800	1,962,800	<i>n.a.</i>	<i>n.a.</i>
Lubricating oil	19,769	22,754	r 31,157	38,828	<i>n.a.</i>	<i>n.a.</i>
Asphalt	185,920	190,617	240,604	252,506	<i>n.a.</i>	<i>n.a.</i>
Yugoslavia—						
Motor spirit	217,243	248,081	245,347	272,869	288,919	316,540
White spirit	8,481	6,827	7,924	8,706	8,297	10,427
Kerosine	72,096	60,665	62,301	72,847	57,936	79,706
Gas oil	247,570	293,337	326,224	348,077	398,152	523,847
Fuel oil	350,000	327,000	352,000	390,000	403,000	<i>n.a.</i>
Lubricating oil	40,814	42,118	50,455	60,211	71,095	97,506
Bitumen	44,127	66,781	81,060	70,740	78,766	<i>n.a.</i>
Other products	6,274	6,216	6,958	7,749	6,151	<i>n.a.</i>
Angola—						
Motor spirit	—	9,000	9,000	28,000	32,912	54,363
Kerosine	—	1,000	1,000	3,100	2,513	1,679
Gas and diesel oil	—	9,000	15,000	48,100	53,138	82,535
Fuel oil	—	37,000	39,000	94,900	110,398	186,765
Asphalt	—	—	—	—	—	3,321
Canary Islands—						
Motor spirit	r 320,702	r 382,042	r 379,570	r 344,043	394,615	506,807
Kerosine	110,713	} 142,089	104,382	134,388	103,418	120,767
Jet fuel	9,922		29,752	31,925	55,634	44,406
Gas oil	r 384,744	} 571,516	r 427,466	r 364,141	427,514	643,736
Diesel oil	r 199,394		r 241,422	r 223,121	207,331	236,325

(a) United States Bureau of Mines' estimate.

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

Long tons

Producing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Canary Islands <i>(cont.)</i> —						
Fuel oil	r 1,169,131	r 1,313,261	r 1,289,310	r 1,389,987	1,430,090	1,961,388
Lubricating oil .. .	r 19,625	r 22,860	r 22,806	r 20,618	25,568	28,426
Asphalt	102,103	64,036	85,989	109,737	143,481	154,764
Egypt—						
Motor spirit	284,000	326,000	336,000	r 301,000	380,000	505,000
Kerosine	273,000	290,000	286,000	r 364,000	448,000	545,000
Gas and diesel oil .. .	347,000	376,000	r 431,000	r 579,000	707,000	833,000
Fuel oil	2,042,000	1,977,000	2,025,000	r 2,694,000	2,609,000	2,806,000
Morocco—						
Motor spirit	28,612	42,969	62,412	73,700	67,900	75,400
Kerosine	8,545	12,271	9,085	10,000	15,500	26,000
Gas and fuel oils .. .	35,797	61,529	62,357	78,600	109,600	200,700
Mozambique—						
Motor spirit	—	—	—	—	82,933	90,337
Gas oil	—	—	—	—	98,372	110,448
Fuel oil	—	—	—	—	211,866	211,025
South Africa—						
Motor spirit	417,000	483,000	r 486,000	r 492,000	535,000	n.a.
Kerosine	55,000	53,000	r 143,000	r 169,000	155,800	191,000
Gas and diesel oil .. .	288,000	349,000	350,000	r 334,000	385,000	391,700
Fuel oil	337,000	320,000	r 284,000	r 270,000	323,000	338,600
Lubricating oil .. .	27,000	22,000	25,000	29,000	n.a.	n.a.
Cuba—						
Motor spirit	321,000	658,000	639,000	575,406	n.a.	n.a.
Kerosine	144,000	131,000	133,000	142,056	n.a.	n.a.
Gas oil and diesel oil .. .	455,000	657,000	745,000	488,139	n.a.	n.a.
Fuel oil	861,000	1,857,000	1,760,000	1,456,692	n.a.	n.a.
Lubricating oil .. .	10,000	—	—	13,145	n.a.	n.a.
Mexico—						
Aviation spirit	45,272	45,747	41,723	45,850	76,346	71,057
Motor spirit	2,461,392	2,562,559	2,908,540	2,927,226	3,249,296	3,141,662
Kerosine	1,038,589	1,267,747	1,380,740	r 1,258,026	1,396,092	1,424,619
Gas and diesel oil .. .	1,163,984	1,473,299	r 1,655,635	1,995,777	2,335,114	2,821,797
Fuel oil	6,268,209	6,490,532	6,410,317	6,130,273	6,911,873	6,584,388
Lubricating oil .. .	125,180	124,313	142,785	147,707	156,333	153,978
Grease	3,484	2,891	3,373	3,760	4,807	6,276
Paraffin wax	36,342	39,947	45,067	39,970	40,926	38,610
Asphalt	266,000	241,000	232,000	302,000	283,000	328,000
Netherlands Antilles (b)—						
Aviation spirit	1,301,733	1,448,616	1,195,762	1,413,993	1,455,000	1,601,000
Motor spirit	2,438,893	3,471,890	2,492,642	2,568,964	2,524,000	2,424,000
White spirit	46,386	54,092	100,112	67,398	57,000	61,000
Kerosine	1,229,122	1,229,209	1,535,172	1,326,787	1,060,000	830,000
Aviation turbine fuel .. .	1,859,385	2,340,282	2,006,922	1,660,951	2,155,000	2,264,000
Gas oil	2,744,541	3,991,875	3,216,223	3,186,203	3,665,000	4,378,000
Diesel oil	1,916,776	1,926,428	1,848,607	1,470,405	1,296,000	1,302,000
Fuel oil	22,928,528	18,805,434	19,766,415	20,162,668	20,792,000	21,802,000
Lubricating oil .. .	602,087	617,446	648,592	723,507	655,000	814,000
Asphalt	683,698	746,627	861,786	840,671	894,000	835,000
Panama—						
Motor spirit	—	—	—	—	—	(a) 135,000
Kerosine	—	—	—	—	—	(a) 79,000
Jet fuel	—	—	—	—	—	(a) 5,000
Gas and diesel oil .. .	—	—	—	—	—	(a) 187,000
Fuel oil	—	—	—	—	—	(a) 451,000
United States—						
Aviation spirit	12,481,000	13,131,000	13,739,000	12,692,000	13,152,000	13,586,000
Motor spirit	152,143,000	151,131,000	156,664,000	161,605,000	162,503,000	167,668,000
Kerosine (c)	13,864,000	14,001,000	14,084,000	17,280,000	17,998,000	19,902,000
Jet fuels (military) .. .	8,059,000	9,377,000	11,828,000	11,232,000	12,118,000	13,016,000
Distillate fuel oil .. .	90,715,000	85,672,000	92,122,000	90,509,000	94,439,000	97,638,000

(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	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
United States (cont.)—						
Residual fuel oil	60,616,000	52,990,000	50,735,000	48,438,000	46,022,000	43,120,000
Lubricating oil	7,801,000	7,182,000	7,856,000	8,314,000	8,296,000	8,605,000
Paraffin wax	682,600	656,500	703,800	737,000	723,000	669,000
Coke	5,976,100	6,751,400	7,342,300	10,716,000	13,452,000	14,058,000
Asphalt	13,910,000	14,510,000	15,851,000	16,018,000	16,529,000	17,778,000
Road oil	1,147,000	943,000	1,033,000	950,000	926,000	1,126,000
Argentina—						
Aviation spirit	41,400	1,900,000	54,700	r 51,200	45,500	44,700
Motor spirit	1,745,800		1,609,400	r 1,903,200	2,177,800	2,673,300
Kerosine	1,099,300	1,098,000	1,166,000	r 1,029,000	1,007,400	1,184,200
Gas oil	444,000	1,779,000	445,000	r 642,300	736,700	1,046,900
Diesel oil	1,078,000		1,157,600	r 950,600	928,200	968,100
Fuel oil	4,906,800	5,244,000	5,408,600	r 6,044,000	6,483,400	6,757,500
Lubricating oil	135,300	165,000	131,800	r 133,600	154,600	136,000
Bolivia—						
Motor spirit	118,844	270,733	98,608	r 103,556	105,494	117,799
Kerosine	36,088	43,974	44,245	r 50,886	50,774	54,775
Diesel oil	55,200	36,578	39,602	r 47,032	48,655	59,997
Fuel oil	107,245	106,290	91,222	r 78,959	73,331	92,193
Brazil—						
Motor spirit	2,065,090	2,151,000	r 2,200,000	2,453,000	2,718,000	3,532,000
Kerosine	169,270	247,000	r 294,000	513,000	502,000	555,000
Diesel oil	649,350	834,000	r 996,000	1,355,000	2,061,000	2,834,000
Fuel oil	2,512,400	2,719,000	r 2,995,000	3,438,000	4,214,000	5,653,000
Lubricating oil	550	—	—	3,000	1,000	3,000
Asphalt	n.a.	n.a.	177,059	199,443	202,132	227,000
Chile—						
Motor spirit	364,500	405,000	r 417,000	523,700	561,300	666,000
Kerosine	27,900	53,100	r 90,200	r 138,600	148,600	203,000
Gas and diesel oil	193,800	211,500	r 227,900	r 244,900	263,400	327,000
Fuel oil	298,600	347,900	r 272,500	r 303,500	367,700	531,000
Colombia—						
Aviation spirit	34,533	46,329	50,804	57,812	59,668	66,803
Motor spirit	645,212	(a) 845,469	(a) 923,511	1,029,681	1,166,584	1,181,487
Other spirit	12,300	12,400	14,900	14,900	56,200	65,100
Kerosine	179,683	197,454	207,097	206,374	203,163	236,223
Jet fuel	1,867	2,514	3,033	5,553	15,448	22,152
Gas oil	—	—	18,772	12,990	1,229	—
Diesel oil	344,862	380,729	425,655	467,674	513,758	556,314
Fuel oil	1,050,945	1,389,819	1,367,658	1,394,089	1,296,779	1,528,069
Lubricating oil and grease	9,759	11,497	14,224	13,603	17,048	19,443
Coke	54,523	88,638	99,485	96,885	96,345	91,835
Asphalt	50,638	50,692	46,333	53,388	49,895	67,528
Ecuador—						
Motor spirit	73,771	84,000	100,940	172,310	139,870	110,160
Kerosine	28,000	29,415	32,305	38,218	40,444	40,822
Gas and diesel oils	48,710	57,284	87,535	94,417	102,240	95,374
Residual fuel oil	117,346	124,375	99,910	180,520	224,950	177,550
Peru—						
Aviation spirit	10,549	9,964	26,000	11,000	6,000	7,000
Motor spirit	561,371	578,465	538,000	557,000	572,900	616,000
Kerosine	377,499	392,237	408,000	464,000	389,500	381,800
Aviation turbine fuel	9,027	7,520	8,000	32,000	41,900	62,700
Diesel oil	674,236	680,103	670,000	692,000	748,900	818,800
Fuel oil	372,301	376,219	337,000	358,000	351,500	404,000
Lubricating oil and grease	7,911	12,002	9,000	7,000	12,000	11,000
Coke	11	396	n.a.	n.a.	n.a.	n.a.
Asphalt	20,939	14,484	n.a.	n.a.	n.a.	n.a.

(a) Including naphtha.

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

Long tons

Producing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Uruguay—						
Motor spirit	247,028	237,242	226,254	238,439	234,647	284,842
Kerosine	160,582	156,620	167,797	183,422	172,269	167,212
Aviation turbine fuel	—	2,437	4,887	6,617	9,581	17,181
Gas oil	86,362	86,043	69,990	158,667	175,670	188,567
Diesel oil	26,989	45,353	48,508	41,261	37,891	47,988
Fuel oil	519,119	537,627	567,980	607,495	635,635	660,166
Lubricating oil	504	622	808	1,643	875	313
Asphalt	15,000	10,600	10,200	10,700	12,800	18,900
Venezuela—						
Motor spirit	3,891,035	4,435,377	4,885,035	4,453,686	4,882,540	5,570,306
Kerosine	1,111,262	1,435,177	1,630,746	1,193,124	1,379,521	1,294,876
Gas oil						
Diesel oil						
Fuel oil						
Lubricating oil						
Asphalt						
Burma—						
Motor spirit	93,453	123,100	132,310	143,188	143,000	148,194
Kerosine	59,359	81,649	61,375	64,462	70,491	87,402
Jet fuel	154	3,327	6,770	14,224	<i>n.a.</i>	21,842
Diesel oil	59,924	85,777	96,410	106,860	110,990	166,909
Fuel oil	73,144	59,631	77,279	65,326	71,437	48,521
Paraffin wax	9,903	10,660	11,988	13,021	13,353	17,146
Coke	5,593	10,085	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	12,000
Formosa—						
Aviation spirit	—	—	5,207			
Motor spirit	134,179	145,063	166,239	215,000	226,000	229,000
Kerosine	26,440	28,530	32,482	29,000	28,400	31,000
Jet fuel	86,753	110,834	128,274	134,700	144,500	(b) 168,000
Diesel oil	114,041	130,411	151,470	176,400	188,500	220,000
Fuel oil	257,331	269,001	332,018	378,000	408,500	521,800
Asphalt	35,542	35,615	42,257	46,831	60,722	67,232
Indonesia—						
Aviation spirit	255,980	211,845	167,569	145,062	117,460	<i>n.a.</i>
Motor spirit	2,108,884	2,082,513	2,194,597	2,106,696	1,982,879	<i>n.a.</i>
Kerosine	1,661,775	1,551,079	1,614,317	1,656,183	1,704,781	<i>n.a.</i>
Fuel, gas, diesel and lubricating oils	6,620,839	6,048,902	6,726,997	6,828,896	7,002,858	<i>n.a.</i>
Paraffin wax	91,430	88,663	100,197	102,462	89,985	<i>n.a.</i>
Asphalt	40,811	29,368	28,894	31,002	43,895	<i>n.a.</i>
Other products	593,868	626,318	787,955	659,843	758,775	<i>n.a.</i>
Iran (a)—						
Aviation spirit	484,000	498,000	503,000	545,000	473,000	566,000
Motor spirit	2,015,000	2,090,000	2,048,000	2,357,000	1,717,000	2,100,000
Kerosine	2,219,000	2,277,000	2,085,000	2,142,000	1,913,000	2,127,000
Aviation turbine fuel	—	—	441,000	514,000	522,000	712,000
Gas and diesel oils	2,514,000	2,641,000	2,964,000	2,736,000	2,538,000	3,005,000
Fuel oil	6,592,000	6,015,000	6,136,000	7,290,000	6,640,000	7,541,000
Lubricating oil	14,000	13,000	15,000	18,000	19,000	19,000
Bitumen	194,000	185,000	254,000	253,000	284,000	223,000
Iraq—						
Motor spirit	(b) 211,000	243,000	(b) 250,000	244,990	(b) 309,000	264,756
Kerosine	(b) 220,000	268,000	(b) 241,000	313,529	(b) 363,000	371,524
Gas oil				196,926		214,303
Diesel oil				191,492		187,117
Fuel oil	1,081,000	1,106,000	(b) 1,052,000	847,363	(b) 949,000	1,032,469
Israel—						
Motor spirit	161,985	187,484	180,945	203,946	(b) 185,000	269,700
Kerosine	135,537	173,114	173,744	175,084	(b) 203,000	233,300
Gas and diesel oils	225,163	262,910	299,692	374,011	(b) 410,000	564,000
Fuel oil	436,644	469,512	514,328	531,535	(b) 601,000	879,100
Bitumen	29,000	30,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<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	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Japan—						
Aviation spirit	12,290	46,478	51,957	51,701	} 5,233,789	5,775,000
Motor spirit	r 2,709,033	r 2,956,148	r 3,626,740	r 4,360,091		
Kerosine	851,809	953,979	1,246,126	1,693,398	1,858,000	2,372,000
Jet fuel	123,313	88,508	217,990	288,302	383,000	432,000
Gas oil	847,389	1,037,739	1,419,862	1,980,296	2,451,956	2,996,000
Diesel oil	541,799	874,629	1,069,930	1,064,677	1,394,390	1,527,000
Fuel oil	6,133,664	6,343,181	8,959,412	14,191,849	17,208,923	20,391,000
Lubricating oil	443,571	404,262	465,999	564,978	647,932	714,000
Paraffin wax	34,747	36,290	39,703	45,074	45,155	49,461
Asphalt	269,075	293,722	414,088	461,803	596,016	838,000
Jordan—						
Motor spirit	—	—	—	40,923	34,000	41,075
Kerosine	—	—	—	43,197	38,000	51,386
Gas oil	—	—	—	41,898	40,000	111,207
Fuel oil	—	—	—	65,607	51,000	40,542
Asphalt	—	—	—	8,607	12,000	18,677
Kuwait—						
Motor spirit	43,000	43,000	85,000	139,000	95,000	162,000
Kerosine	21,000	29,000	40,000	39,000	51,000	56,000
Gas and diesel oils	258,000	1,355,000	1,642,000	1,968,000	1,725,000	2,084,000
Fuel oil	816,000	3,432,000	4,025,000	5,127,000	5,102,000	5,548,000
Bitumen	14,000	21,000	22,000	33,000	35,000	22,000
Lebanon—						
Motor spirit	176,000	115,795	112,993	108,280	99,514	121,433
Kerosine	105,000	76,050	64,396	71,798	63,451	100,813
Gas oil	238,000	166,969	161,836	155,903	175,438	161,053
Fuel oil	479,000	370,989	379,085	337,426	331,674	408,543
Philippine Republic—						
Motor spirit	325,000	386,000	384,000	411,000	718,800	841,700
Kerosine	64,000	73,000	80,000	85,000	247,300	294,800
Gas and diesel oil	200,000	232,000	236,000	257,000	554,000	671,600
Fuel oil	249,000	420,000	411,000	422,000	710,600	940,500
Saudi Arabia—						
Aviation spirit	—	—	} 935,000	31,815	47,277	34,862
Motor spirit	1,021,997	859,673		1,122,306	1,038,129	955,557
Kerosine	} 898,503	1,078,694	621,613	757,097	742,985	480,420
Jet fuel			396,996	324,720	427,802	563,282
Diesel oil	1,499,077	2,004,878	1,441,801	1,454,250	1,786,261	1,683,032
Fuel oil	5,543,806	3,728,127	4,614,498	6,655,609	7,277,150	7,611,459
Asphalt, etc.	50,745	50,930	51,841	35,935	57,839	57,112
Syria—						
Motor spirit	—	—	38,000	105,000	(a) 118,000	(a) 130,000
Kerosine	—	—	28,000	95,000	(a) 108,000	(a) 93,000
Gas and diesel oil	—	—	60,000	177,000	(a) 199,000	(a) 199,000
Fuel oil	—	—	117,000	306,000	(a) 314,000	(a) 284,000
Turkey—						
Motor spirit	61,676	65,370	74,110	70,830	76,060	77,370
Diesel oil	15,383	23,181	34,370	24,190	37,660	52,690
Fuel oil	154,930	165,531	176,770	179,600	184,000	208,100
Asphalt	35,653	42,746	45,840	37,128	56,265	104,641

(a) United States Bureau of Mines' estimate.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS*

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Crude petroleum (f) ..	14,353	4,189	121,266	48,629	110,166	1,002,572
Aviation spirit						
(bunkers) (a) ..	162,536	160,700	129,102	99,415	79,915	40,288
Aviation spirit ..	357,101	398,143	346,339	280,361	213,568	260,866
Aviation turbine fuel (d)	181,059	460,779	577,167	487,239	296,281	341,222
Motor spirit ..	926,620	1,072,000	855,078	977,179	968,353	1,082,117
Other spirit ..	16,476	38,398	35,874	37,165	44,150	50,801
Kerosine (e) ..	215,511	275,671	346,918	635,411	797,842	802,918
Gas oil ..	787,376	1,646,462	1,637,752	2,276,444	2,050,963	2,694,188
Diesel oil ..	388,310	488,675	445,398	409,384	295,129	399,444
Fuel oil ..	2,775,298	3,159,670	2,956,371	3,184,389	2,361,820	3,238,013
do. (bunkers) (a) ..	3,520,974	3,887,573	4,146,422	4,242,121	4,281,575	4,002,585
Lubricating oil ..	375,923	392,779	448,286	483,081	484,233	525,504
Greases (c) ..	29,274	29,970	26,638	31,418	32,398	32,834
Other heavy oils ..	8,439	8,457	8,996	8,598	10,674	11,530
Petroleum waxes ..	6,495	7,040	8,245	6,411	6,094	6,643
Malta (bunkers) (b)—						
Aviation spirit ..	24,752	21,943	14,669	13,213	11,872	11,936
Aviation turbine fuel ..	38,497	40,639	31,339	35,109	33,202	31,282
Gas oil ..	1,299	243	8,578	2,185	2,488	6,096
Fuel oil ..	792	—	475	407	224	3,669
Ghana (bunkers) (b)—						
Aviation spirit ..	3,837	3,617	—	—	—	—
Gas oil ..	2,156	3,577	4,119	6,119	6,731	9,323
Diesel oil ..	4,727	172	2	2	2,056	2,805
Fuel oil ..	5,928	10,801	8,705	8,839	5,793	6,654
Lubricating oil ..	1,074	64	19	59	47	113
Kenya (bunkers) (b)—						
Aviation spirit ..	10,052	9,475	9,527	13,955	19,264	n.a.
Motor spirit ..	2	1	1	1	35	n.a.
Gas, diesel and fuel oils	187,373	105,639	113,835	103,557	143,820	n.a.
Lubricating oil ..	364	514	433	458	577	n.a.
Mauritius (bunkers) (b)—						
Aviation spirit ..	1,084	1,896	1,866	1,793	2,165	1,977
Fuel oils ..	9,797	6,823	6,312	9,425	12,556	14,141
Nigeria—						
Crude petroleum ..	6	223,866	491,883	827,702	2,224,140	3,367,504
Diesel oil (bunkers) (b)	380	2,078	1,991	2,478	1,026	n.a.
Gas oil do. (b)	1,044	136	1,304	1,930	2,589	n.a.
Fuel oil do. (b)	6,666	6,225	4,361	4,666	2,504	n.a.
Sierra Leone (bunkers) (b)—						
Aviation spirit ..	517	201	131	201	166	472
Fuel and diesel oils ..	245,178	214,722	219,985	275,709	304,681	274,974
Tanganyika (bunkers) (b)—						
Aviation spirit ..	610	414	831	818	272	n.a.
Gas, diesel and fuel oils	13	6	832	224	1,245	n.a.
Uganda (bunkers) (b)—						
Aviation spirit ..	3,631	3,213	2,002	2,891	3,585	n.a.

*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 241).

(a) Including foreign produce.

(d) Wide cut gasoline.

(b) Foreign produce. See imports.

(e) Including kerosine jet type fuel.

(c) Including cable impregnating compounds.

(f) Including partly refined.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES (cont.)						
Canada—						
Crude petroleum ..	7,423,230	4,223,924	4,448,298	5,631,325	8,696,335	12,210,695
Motor spirit ..	138,185	19,260	62,043	156,109	65,426	110,676
Kerosine, etc. ..	137,454	23,952	21	2,209	n.a.	n.a.
Fuel oil ..	164,923	64,351	132,221	105,704	152,390	285,768
do. (bunkers)	1,334,707	1,076,598	1,339,979	1,316,435	1,403,484	1,489,833
Diesel oil (bunkers) ..	342,471	369,656	456,365	433,036	426,577	454,043
Lubricating oil ..	1,759	2,021	948	852	(f) 280	(f) 4,635
Other oils ..	10	27	197	391	n.a.	n.a.
Mineral wax ..	146	136	159	248	n.a.	n.a.
Petroleum coke ..	38,462	27,481	44,152	32,528	(e) 46,793	(e) 28,445
Natural gas (million cu.ft.)	15,731	86,972	84,764	91,045	168,180	319,566
Barbados (bunkers) (a)—						
Aviation spirit ..	1,713	1,365	1,431	2,341	1,843	1,119
Bermuda (bunkers) (a)(b)—						
Aviation spirit ..	76,385	79,184	78,630	78,009	79,655	66,028
Motor spirit ..	968	720	2,479	3,478	3,629	3,872
Aviation turbine fuel ..	16,591	32,314	37,448	40,225	63,567	67,350
Kerosine ..	533	352	361	809	462	474
Fuel oil ..	25,907	7,774	7,429	} 26,784	19,818	34,237
Diesel oil ..	3,057	1,872	3,413			
Lubricating oil ..	974	1,036	518	269	92	36
Jamaica (bunkers) (a)—						
Aviation spirit ..	371	1,586	25,889	r 25,446	9,444	12,987
Gas oil ..	576	29	2,106	r 10,640	7,871	4,736
Diesel oil ..	25,656	1,598	48,941	64,054	53,006	32,352
Fuel oil ..	80,407	8,910	106,347	145,991	155,072	88,780
Trinidad and Tobago—						
Crude petroleum ..	461,171	406,919	458,246	686,192	728,029	870,541
Aviation spirit ..	358,321	371,445	443,841	(d) 912,822	d 1,360,395	d 1,426,354
do. (bunkers) ..	12,365	42,505	17,434	12,404	8,229	4,838
Motor spirit ..	870,379	1,311,969	1,257,237	1,130,783	1,233,518	1,063,230
do. (bunkers) ..	1,802	16,946	8,279	25	8,505	39
Kerosine ..	446,188	455,437	326,927	263,185	320,118	217,706
do. (bunkers) ..	257	171	4,875	13,414	20,569	32,180
Gas oil ..	737,067	926,188	1,233,693	1,258,868	1,379,996	1,058,377
do. (bunkers) ..	75,200	62,888	48,850	37,717	49,260	117,260
Diesel oil ..	322,438	389,121	179,945	176,124	356,034	874,695
do. (bunkers) ..	488,659	424,341	370,833	310,011	364,342	356,270
Fuel oil ..	1,915,735	2,876,254	3,895,728	4,750,917	6,613,960	7,346,859
do. (bunkers) ..	2,012,484	1,235,053	1,471,232	1,537,568	1,803,873	1,762,723
Lubricating oil ..	251	317	306	151	—	24
Road oil ..	84,252	23,024	29,220	13,167	12,809	9,640
Asphalt—						
Crude ..	—	1	—	—	—	—
Dried ..	41,258	44,435	48,414	52,748	57,980	65,344
Asphalt cement ..	12,705	11,129	12,317	5,873	7,749	4,261
Bituminous asphalt ..	75,778	45,639	28,765	32,547	30,182	49,575
British Guiana (a)—						
Aviation spirit (bunkers)	345	365	489	700	1,680	n.a.
Falkland Islands—						
(bunkers) (a)—						
Fuel oil ..	4,497	6,921	27,135	38,453	17,758	16,996
Aden (c)—						
Aviation and motor spirits ..	653,421	620,810	587,845	568,702	739,634	821,521
Kerosine ..	273,231	310,411	412,961	320,716	497,969	559,129
Gas, diesel, fuel oils ..	1,409,925	739,128	1,081,749	1,278,113	1,779,578	1,931,273
Fuel oil (bunkers) ..	2,101,173	3,408,253	3,280,542	3,557,991	3,509,121	3,405,878

(a) Foreign produce. See imports.

(b) Including bunkers for military forces.

(c) Domestic and foreign produce.

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

(e) Including pitch coke.

(f) Including grease.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES (cont.)						
Bahrain Islands (e)—						
Aviation spirit	21,000	8,000	10,000	} 1,608,000	1,549,000	1,836,000
Motor spirit	1,220,000	1,350,000	1,537,000			
Aviation turbine fuel ..	306,000	485,000	304,000	289,000	451,000	526,000
Kerosine	536,000	619,000	728,000	811,000	687,000	716,000
Process oil	15,000	—	—	—	—	—
Diesel oil	1,740,000	1,480,000	1,919,000	2,058,000	2,383,000	2,562,000
do. (bunkers)	156,000	125,000	111,000	95,000	85,000	76,000
Fuel oil	3,602,000	3,122,000	3,247,000	3,739,000	3,877,000	4,390,000
do. (bunkers)	730,000	641,000	615,000	656,000	733,000	751,000
Asphalt	97,000	46,000	75,000	106,000	101,000	84,000
British Borneo—						
Brunei—						
Crude petroleum (b) ..	5,371,788	5,053,900	5,295,552	4,505,041	4,379,000	3,757,077
Natural gas (million cubic feet)	2,545	2,480	2,540	2,693	2,656	2,653
North Borneo (bunkers) (a)—						
Aviation spirit	2,387	1,702	1,430	663	591	921
Fuel oil	3,612	9,087	6,622	6,631	9,479	6,097
Sarawak—						
Crude petroleum (c) ..	3,545,722	3,157,045	3,238,040	2,475,388	1,879,638	1,871,940
Motor spirit (d)	202,679	225,000	334,002	337,023	262,459	287,222
Kerosine	6	15	15	—	—	—
Gas oil	48,991	60,541	43,981	39,328	33,754	50,922
Diesel oil	975,690	950,027	1,112,390	1,121,445	951,764	1,090,062
Fuel oil	560,134	510,326	469,381	449,787	459,825	531,799
do. (bunkers) (f) ..	140,792	174,156	157,075	147,183	106,589	81,634
Ceylon (bunkers) (a)—						
Aviation spirit	4,478	6,014	8,267	9,503	7,638	7,536
Gas oil	4,030	6,476	6,637	4,127	3,878	3,484
Diesel oil	76,915	48,644	39,974	49,341	52,854	49,305
Fuel oil	540,096	379,319	374,075	397,339	330,513	247,529
Cyprus (bunkers) (a)—						
Aviation spirit	2,855	2,273	2,583	2,296	1,196	1,143
Hong Kong—						
Aviation and motor spirit ..	868	959	3,827	1,215	6,263	2,225
Kerosine	2,212	1,446	1,855	2,111	2,660	3,552
Diesel oil and gas oil ..	5,538	6,558	8,669	8,683	10,445	15,914
Fuel oil	233	620	1,201	635	867	1,221
Lubricating oil	893	508	563	553	833	2,343
Greases	5	18	39	21	17	4
Petroleum jelly	194	164	86	66	51	53
Paraffin wax	316	344	107	170	220	139
Asphalt and bitumen ..	30	2,791	278	563	85	172
India—						
Motor spirit	} 146,469	108,402	61,581	} (g) 193,472	(g) 162,452	(g) 239,647
Other spirit			11,210			
Diesel oil	n.a.	14,858	122	(g) 6	(g) 24	(g) —
Fuel oil	179,880	83,710	52,016	(g) —	(g) —	(g) —
Paraffin wax	25,594	22,061	22,540	(g) 18,343	(g) 12,043	(g) 11,939

(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) 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.

(e) British Protected State.

(f) Including diesel oil bunkers.

(g) Years ended March 31 following that stated.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES (cont.)						
Malaya—						
Crude petroleum ..	772,776	856,817	253,713	227,060	769,470	1,295,231
Aviation spirit ..	196,720	164,455	179,413	126,759	117,030	171,657
do. do. (bunkers) ..	15,169	18,067	24,269	32,202	41,793	50,398
Motor spirit ..	847,002	697,450	775,350	817,502	674,192	657,425
White spirit ..	75,495	53,311	71,796	77,852	90,204	70,330
Aviation turbine fuel ..	18,396	22,769	69,117	122,424	225,372	278,400
Kerosine ..	305,448	321,158	325,440	350,418	303,269	286,667
Gas oil ..	424,069	354,574	358,444	369,745	436,156	558,511
Diesel oil ..	250,013	219,683	169,871	249,268	285,397	286,132
Fuel oil ..	445,012	188,322	201,920	189,280	590,576	878,862
Fuel and diesel oil (bunkers) ..	2,228,583	1,999,575	1,841,517	1,917,555	2,373,984	2,636,187
Lubricating oil ..	6,522	6,266	5,420	4,392	4,552	5,210
Petroleum jelly ..	27	68	53	46	138	28
Grease ..	349	265	236	159	278	276
Paraffin wax ..	5,956	88	27	101	124	2,316
Asphalt and bitumen ..	98,399	37,001	3,718	5,298	3,445	9,343
Qatar (d)—						
Crude petroleum ..	6,447,000	8,055,000	7,857,631	7,977,915	8,143,706	8,614,642
Australia (a)—						
Aviation spirit ..	2,799	381	1,440	8,748	10,319	8,031
do. do. (bunkers) ..	3,955	4,495	2,392	494	8,079	7,799
do. do. do. (b) ..	15,837	11,490	5,943	19,080	8,892	2,997
Motor spirit ..	75,455	155,963	159,070	50,803	81,971	138,370
Kerosine ..	17,715	20,321	14,234	50,997	73,667	13,965
Aviation turbine fuel ..	612	1,872	1,597	23,751	35,533	68,233
do. (bunkers) ..	921	409	403	13	4,371	6,680
do. do. (b) ..	3,103	1,823	1,608	3,248	10,834	1,965
Lubricating oil ..	573,441	564	688	1,101	5,872	4,467
Diesel and fuel oils ..	582,896	989,736	922,482	1,016,468	1,465,540	1,758,225
Fuel oil (bunkers)—	19,200	8,869	9,602	10,537	6,652	8,410
Domestic produce ..	582,896	518,513	465,221	564,219	698,751	583,321
Foreign produce ..	19,200	8,869	9,602	10,537	6,652	8,410
Fiji (bunkers)(b)—						
Aviation spirit ..	14,779	11,082	15,288	6,324	5,398	5,381
Aviation turbine fuel ..	n.a.	n.a.	1,807	21,135	28,738	35,708
Diesel oil ..	4,442	6,458	3,772	8,313	11,660	12,429
Gas oil ..	48	160	1,479	758	382	2,129
New Zealand (bunkers) (b)—						
Aviation spirit ..	6,142	6,219	7,192	3,649	5,063	n.a.
Diesel oil ..	21,229	18,444	21,457	10,408	46,992	34,263
Fuel oil ..	9,292	9,478	7,511	4,100	55,065	43,362
Lubricating oil ..	1,137	1,247	1,247	1,287	1,547	1,632
Irish Republic						
Aviation spirit (b) (c) ..	3,293	3,064	1,808	3,721	2,845	2,900
do. (e) ..	82,672	95,230	75,633	57,392	44,239	34,574
Motor spirit ..	—	—	n.a.	n.a.	4,048	7,100
Aviation turbine fuel (b) (c) ..	5,012	8,753	12,543	11,838	13,440	12,137
do. (e) ..	n.a.	n.a.	3,622	34,196	72,207	72,866
Gas and diesel oils ..	—	—	n.a.	n.a.	135,726	133,990
do. (bunkers) (b) (c) ..	6,216	7,400	5,147	—	—	—
do. do. (c) ..	—	—	3,298	10,434	9,509	7,405
Fuel oil ..	—	—	n.a.	n.a.	241,682	111,485
do. (bunkers) (b) (c) ..	20,667	37,395	23,914	15,013	11,282	5,255
do. do. (c) ..	—	—	29,692	78,932	86,045	70,130

(a) Years ended June 30 of that stated.

(d) British Protected State.

(b) Foreign produce. See imports.

(e) Re-exports to Shannon Free Airport.

(c) Bunkers for foreign ships or aircraft only.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
Austria—						
Crude petroleum ..	221	—	1	1	1	1
Motor spirit ..	1	—	23	20	4	37
Kerosine ..	10,003	1,025	—	—	—	—
Gas oil ..	265,534	203,242	167,883	132,531	82,753	191,625
Fuel oil ..	8	1,139	5,713	4,884	201	10
Lubricating oil, etc. ..	791	224	2,474	7,776	4,487	10,780
Belgium-Luxemburg						
E.U.—						
Crude petroleum ..	48,011	76,312	14,199	24	79	1,670
Motor spirit ..	299,524	484,004	455,321	478,521	369,321	426,213
Kerosine ..	120,912	159,963	237,453	218,489	161,043	177,712
Gas oil ..	586,278	628,916	679,892	842,658	782,454	794,451
do. (bunkers) (b) ..	(c)	(c)	(c)	64,829	80,180	83,470
Fuel oil, etc. ..	932,591	1,157,655	1,022,410	831,592	677,278	600,031
do. (bunkers) (b) ..	530,143	566,316	576,635	553,504	707,488	980,462
Lubricating oil ..	85,471	91,499	85,950	96,445	103,818	111,023
do. (bunkers) (b) ..	6,410	4,889	5,875	5,452	4,386	8,665
Other heavy oils ..	2,588	140	377	56	39	2,994
Petroleum jelly ..	799	541	917	1,392	1,581	1,665
Paraffin wax ..	58	77	89	37	76	65
Ozokerite and ceresin (a) ..	67	59	55	44	35	45
Petroleum coke ..	493	28	437	2,365	816	5,943
Natural asphalt ..	748	214	201	224	335	47
Pitch ..	72,404	81,189	122,289	163,704	196,472	223,005
Denmark—						
Aviation spirit ..	—	2	—	530	1,497	2,845
Motor spirit ..	—	—	100	18	1,411	138,147
White spirit ..	1	2	33	26	40	1,090
Kerosine ..	—	—	1,366	3	494	6,820
Gas oil ..	—	—	6	28	7,925	74,123
Diesel oil ..	—	—	—	—	328	11,463
Fuel oil ..	—	—	—	326	31,292	294,856
Gas oil (bunkers) ..	37,571	45,182	39,658	40,696	30,190	—
Diesel oil (bunkers) ..	90,845	97,206	99,115	90,096	78,919	273,571
Fuel oil (bunkers) ..	114,154	115,111	122,454	104,965	89,062	—
Lubricating oil ..	513	884	3,906	4,724	3,832	2,362
Grease ..	573	1,072	1,109	1,128	1,202	1,531
France—						
Crude petroleum ..	19,365	44,998	986	812	—	—
Aviation spirit ..	23,015	46,842	58,924	76,034	61,183	13,998
Motor spirit ..	934,589	1,287,914	1,305,656	1,566,194	1,688,088	1,398,105
White spirit ..	2,719	2,553	3,915	6,540	8,840	8,090
Kerosine ..	353,688	456,452	479,247	603,366	648,016	589,058
Gas oil ..	1,049,345	1,916,623	1,533,743	1,701,704	—	—
do. (bunkers)—					2,118,805	2,366,527
Domestic produce ..	351,634	401,905	315,291	(b) 27,845	—	—
Foreign produce ..	6,896	6,149	11,834	n.a.	n.a.	n.a.
Fuel oil ..	1,113,190	1,891,575	2,117,398	1,954,598	—	—
do. (bunkers)—					2,694,757	2,203,474
Domestic produce ..	1,454,753	1,837,243	1,762,514	(b) 298,892	—	—
Foreign produce ..	340,692	151,516	117,885	n.a.	n.a.	n.a.
Lubricating oil ..	106,106	133,649	157,096	186,193	—	—
do. (bunkers)—					179,386	183,578
Domestic produce ..	23,805	24,786	27,324	(b) 3,434	—	—
Foreign produce ..	5,238	2,241	1,160	n.a.	n.a.	n.a.
Petroleum jelly ..	26	36	32	90	124	230
Paraffin wax ..	5,218	8,440	10,522	9,952	8,860	9,647
Ozokerite, ceresin, etc. ..	118	440	1,078	1,162	798	763
Petroleum coke ..	13	—	19	6	2,301	1

(a) Including montan wax.

(c) Included with fuel oil bunkers.

(b) Bunkers for foreign ships or aircraft only.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
France (cont.)—						
Natural asphalt and bitumen	19,415	19,881	18,150	22,435	27,054	21,063
Mastic asphalt	5,727	4,971	5,603	6,805	5,344	3,421
Bitumen	124,971	147,432	164,206	174,562	183,885	126,846
Germany (Federal)—						
Aviation spirit						
(bunkers) (a) (c) ..	66,967	75,317	67,734	64,940	63,502	52,870
Motor spirit	219,106	366,184	323,613	530,520	1,150,893	1,151,549
White spirit				6,084	4,272	5,779
Kerosine				2,844	8,093	4,921
Aviation turbine fuel ..	2,593	77,068	23,141	18,326	9,606	205,686
do. (bunkers) (a) (c) ..	5,713	12,001	31,401	78,949	139,711	187,890
Gas and diesel oil	186,878	321,706	528,283	682,850	736,148	770,568
do. (bunkers) (a) (c) ..	345,430	365,884	357,013	111,963	100,308	147,656
Fuel oil	133,515	172,602	358,369	988,812	2,184,887	1,261,259
do. (bunkers) (a) (c) ..	739,188	690,112	729,892	419,366	501,512	737,826
Lubricating oil	60,599	44,091	51,804	68,316	80,027	73,770
do. (bunkers) (a) (c) ..	10,718	9,964	10,900	10,226	9,463	9,726
Petroleum jelly	6,166	6,265	4,623	5,173	5,266	7,189
Paraffin wax	24,476	25,160	28,720	22,760	22,037	29,846
Ozokerite, etc.	101	205	175	140	74	26
Natural asphalt and bitumen	2,511	975	164	190	568	567
Bitumen	26,431	57,561	38,541	42,477	67,414	105,925
Petroleum coke	45,922	44,881	55,588	60,377	96,722	101,333
Germany (East)—						
Motor spirit	126,173	74,833	59,078	256,051	364,455	381,854
Diesel oil	294,004	271,446	399,721	370,770	370,316	364,062
Hungary—						
Motor spirit	68,285	75,412	91,689	99,785	94,506	115,664
Kerosine	14,491	9,413	183	163	10,070	140
Gas oil	96,680	145,618	140,465	159,828	171,707	193,045
Fuel oil	7,804	47,547	119,616	219,695	212,287	259,240
Lubricating Oil	12,220	12,916	12,996	13,091	13,222	13,401
Paraffin wax and ceresin	1,837	2,121	2,464	2,362	1,526	1,991
Bitumen	48,298	85,924	118,795	132,178	148,956	169,773
Italy—						
Crude petroleum	197	203,973	468,747	510,305	469,949	797,748
Aviation and motor spirits	1,452,182	1,841,049	1,533,843	1,822,409	1,768,272	1,845,429
do. (bunkers) (a) ..	42,738	40,038	190,999	140,074	190,195	209,453
White spirit	22,582	16,682	10,276	16,311	12,826	14,530
Kerosine	301,828	307,178	333,551	438,971	558,119	634,485
Lubricating oil	26,104	49,107	106,570	40,730	29,850	48,880
Gas oil	1,857,488	1,779,134	1,958,298	2,412,466	2,507,906	3,342,514
do. (bunkers) (a) ..	50,810	206,194	88,686	234,389	255,647	298,857
Fuel oil	1,223,103	2,742,770	2,557,317	1,869,799	2,528,374	2,488,599
do. (bunkers) (a) ..	637,161	913,502	1,352,742	1,949,803	2,246,633	2,405,779
Paraffin wax	1,745	783	557	678	868	1,017
Natural asphalt and bitumen	11,089	7,500	8,955	9,322	9,038	8,346
Pitch	74,278	107,980	102,748	114,094	116,882	121,123
Netherlands—						
Aviation spirit (bunkers)	33,412	(a) 453	(a) 797	(a) 1,499	(a) 1,537	(a) 1,807
Motor spirit	2,186,670	2,326,815	1,956,761	2,407,071	2,548,248	2,818,378
Kerosine	384,544	514,854	566,235	573,198	607,625	631,326
Gas oil	1,923,376	2,041,032	2,155,325	2,779,299	2,577,081	2,659,159
do. (bunkers)	(b) 657,846	(a) 324,676	(a) 259,254	(a) 335,332	(a) 455,390	(a) 415,683

(a) Bunkers for foreign ships or aircraft only.

(b) Including foreign produce.

(c) Figures for 1957-1959 include foreign produce.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Netherlands (cont.)—						
Fuel oil	3,580,907	4,941,011	3,876,710	4,947,274	4,896,176	4,800,485
do. (bunkers) .. .	(b)1,600,581	(a) 824,253	(a) 786,887	(a)1,038,676	(a)1,424,979	(a)1,688,191
Lubricating oil .. .	206,130	183,067	213,637	246,767	223,686	263,329
Petroleum jelly .. .	2,724	3,121	5,245	4,083	4,944	6,104
Paraffin wax	1,714	7,262	4,564	16,018	17,272	9,128
Ozokerite and ceresin(d) .. .	1,711	1,571	1,726	810	218	195
Pitch	92,263	78,471	90,925	132,274	225,607	230,106
Natural asphalt .. .	10	8	17	176	31	—
Petroleum coke .. .	5,642	20,183	36,042	43,297	36,495	54,335
Norway—						
Motor spirit	607	875	881	910	72,225	146,112
Kerosine	60	15	267	8	4,962	12,559
Fuel oil and solar oil .. .	1,131	238	316	386	546,812	1,017,629
Lubricating oil .. .	8,997	10,592	12,159	15,776	15,865	17,944
Poland—						
Kerosine	<i>n.a.</i>	—	7,500	11,500	7,400	<i>n.a.</i>
Fuel oils	<i>n.a.</i>	136,100	174,900	192,400	269,800	<i>n.a.</i>
Lubricating oil .. .	<i>n.a.</i>	3,029	6,276	3,490	3,235	<i>n.a.</i>
Paraffin wax	<i>n.a.</i>	108	3,046	5,167	5,597	<i>n.a.</i>
Asphalt	<i>n.a.</i>	—	5,277	2,370	1,306	<i>n.a.</i>
Portugal (b)—						
Motor spirit	68,840	102,892	83,690	89,984	75,994	46,733
Kerosine	26,269	37,904	35,568	13,919	40,979	28,242
Fuel oil	86,125	159,857	164,004	167,924	98,214	73,056
do. (bunkers) (a) .. .	3,568	1,216	18,233	5,718	4,394	1,818
Lubricating oil, etc. .. .	1,606	1,622	2,135	2,020	1,660	1,591
Roumania—						
Motor spirit (c) .. .	<i>n.a.</i>	2,222,200	2,526,000	2,426,900	2,044,100	1,841,600
Kerosine		656,300	686,600	665,000	607,100	592,000
Gas oil		1,456,100	1,368,900	1,266,000	1,740,000	1,621,800
Fuel oil		543,000	970,100	1,210,000	1,283,600	1,444,600
Lubricating oil .. .		93,000	152,700	208,100	242,400	201,700
Paraffin wax		9,200	12,200	19,300	30,200	23,100
Petroleum coke .. .		13,700	16,000	13,500	26,100	27,900
Bitumen	58,000	61,300	79,900	84,900	97,700	
Spain—						
Motor spirit	37,205	86,288	15,431	14,410	63,717	53,887
Diesel oil	12	38,264	4,322	—	—	—
Fuel oil	—	—	31,410	165,651	41,423	20,679
Sweden—						
Motor spirit, etc. .. .	2	487	8,995	8,252	2,663	12,740
White spirit	—	—	591	818	510	1,194
Kerosine	—	505	3,406	16,407	2,361	
Fuel oil and gas oil .. .	9,508	2,309	75,833	48,713	49,492	66,727
Lubricating oil and grease	11,347	14,253	23,430	31,191	36,135	40,013
Paraffin wax	5	4	18	29	27	14
Asphalt	62	138	1	3	3	23
Pitch	22,412	27,764	25,830	30,571	30,430	36,742
Switzerland—						
Asphalt and bitumen .. .	6,237	4,321	2,217	2,498	2,124	2,002
U.S.S.R.—						
Crude petroleum .. .	5,829,700	8,949,000	12,288,100	17,543,400	23,018,900	25,864,400
Motor spirit	1,678,400	1,862,800	2,582,600	2,773,500	3,532,700	3,104,800
Kerosine	893,800	836,700	905,000	1,076,100	1,058,800	1,274,400
Diesel oil	2,656,000	3,429,000	4,570,100	5,083,900	5,607,700	6,286,500
Fuel oil	2,158,200	2,413,100	4,207,500	5,201,300	6,748,500	7,614,400
Lubricating oil and grease	198,900	305,500	342,100	374,000	416,000	431,700
Paraffin wax	11,100	11,900	21,800	23,900	23,300	30,000
Bitumen	17,000	21,800	31,200	36,500	73,600	21,700

(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	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Yugoslavia—						
Crude petroleum ..	—	—	—	—	175,692	551,867
Motor spirit ..	41,417	37,197	36,716	30,509	16,084	25,239
White spirit ..	1,304	673	50	34	167	189
Power kerosine ..	6,383	589	—	—	—	—
Gas oil ..	14,985	9,157	7,794	3,555	3,974	151,928
Fuel oil ..	29,666	26,619	9,547	32,903	60,926	75,724
Lubricating oil ..	61	59	5,508	6,614	10,160	24,931
Mastic asphalt ..	—	—	—	197	394	12
Algeria—						
Crude petroleum ..	10,693	376,243	821,801	—	—	—
Motor spirit (d) ..	24,385	28,165	32,474	30,972	n.a.	n.a.
Fuel oil ..	2	1	36	2	n.a.	n.a.
Fuel oil and gas oil (d) ..	654,000	525,199	476,892	454,788	n.a.	n.a.
Lubricating oil ..	35	11	12	3	n.a.	n.a.
Angola—						
Crude petroleum ..	4,488	—	—	1	—	113,135
Fuel oil ..	—	15,449	10,049	45,188	71,690	85,451
Canary Islands—						
Motor spirit ..	310,795	309,770	308,873	(e) 199,054	(e) 176,533	(e) 318,511
Kerosine ..	80,250	79,486	92,561	(e) 59,018	(e) 53,976	(e) 61,422
Diesel (c) ..	173,507	172,054	240,559	(e) 99,796	(e) 114,486	(e) 147,944
do. (bunkers) (c) ..	177,303	123,267	149,314	128,070	174,217	121,209
Fuel oil (c) ..	480,992	603,430	583,105	(e) 201,927	(e) 201,776	(e) 255,730
do. (bunkers) (c) ..	318,616	216,421	246,518	256,055	288,411	345,175
Lubricating oil ..	10,506	7,404	19,472	n.a.	n.a.	n.a.
Paraffin wax ..	523	561	578	(e) 225	(e) 327	(e) —
Asphalt ..	117,633	61,433	93,781	(e) 25,413	(e) 33,122	(e) 52,144
Cape Verde Islands—						
Fuel oil (bunkers) (b) ..	529,433	455,992	465,019	488,376	n.a.	n.a.
Ceuta (b)—						
Diesel oil ..	7,214	50,487	13,139	12,425	6,096	441
do. (bunkers) ..	505,351	403,350	466,720	282,988	105,679	489,887
Fuel oil (bunkers) ..	92,923	—	—	130,543	412,199	414,437
Congo (Republic of)—						
Crude petroleum ..	—	—	—	n.a.	91,949	132,875
Egypt—						
Crude petroleum ..	236,094	1,104,963	1,063,877	854,045	1,780,886	2,802,844
Motor spirit ..	1,193	2,331	27,059	82,466	46,764	266,709
Kerosine ..	3,184	5,329	5,862	5,908	4,591	4,288
Gas and diesel oils ..	3,873	8,711	7,335	7,393	7,323	12,184
Fuel oil ..	290	3,437	3,250	65,313	29,347	171,508
do. (bunkers) (a) ..	13,364	18,005	8,828	22,844	137,281	84,146
Gabon—						
Crude petroleum ..	141,038	443,327	768,447	795,990	726,155	804,758
Libya—						
Crude petroleum ..	—	—	—	—	681,000	772,793
South Africa—						
Motor spirit ..	19,348	41,976	27,943	9,897	47	4
do. (bunkers) (b) ..	9,000	8,856	5,826	7,030	5,318	13,121
Kerosine ..	373	236	29,937	13,834	1,765	98
Gas oil (bunkers) (b) ..	9,019	8,871	10,227	17,085	8,896	16,723
Diesel oil ..	47,395	35,068	70,504	32,764	45	153
do. (bunkers) ..	47,498	55,576	37,299	2,642	4,705	4,324
do. (bunkers) (b) ..	162,195	53,541	25,006	22,711	28,777	26,313
Fuel oil ..	66	25,102	55,011	37,967	12,146	241
do. (bunkers) ..	213,470	231,728	199,923	188,030	245,664	267,448
do. (bunkers) (b) ..	802,597	181,209	160,384	166,517	210,537	152,062
Asphalt and bitumen ..	32,286	30,812	58,106	50,127	43,414	43,263

(a) Bunkers for foreign ships only. (b) Foreign produce. See imports. (c) Including foreign produce. (d) Bunkers of foreign produce. (e) Excluding exports to Spain and other Spanish Dependencies.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Sudan—						
Aviation spirit (bunkers) (a) ..	22,209	18,617	15,909	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Tunisia (bunkers)—						
Aviation spirit ..	3,907	212	—	—	—	—
Fuel oil ..	64	—	55	—	—	—
Mexico—						
Crude petroleum ..	407,932	112,615	15,827	147,349	913,531	1,038,797
Motor spirit ..	29,636	3,859	3,816	4,789	40,920	3,115
Kerosine ..	1,480	458	21,666	1	—	—
Fuel oil ..	1,625,788	1,558,602	1,817,941	995,775	1,132,626	1,607,093
do. (bunkers) ..	165,970	76,030	81,335	78,938	22,168	46,189
Gas oil ..	69,395	8,715	10,295	10,654	7,132	5,778
Paraffin wax ..	1	865	3,839	1,270	704	1,581
Natural gas (<i>million cu. ft.</i>) (b) ..	16,970	46,211	51,488	46,989	51,756	49,888
Netherlands Antilles—						
Crude petroleum ..	587,699	507,975	708,830	180,121	322,000	374,000
Aviation spirit ..	1,301,733	1,448,616	1,195,762	1,413,993	1,455,000	1,601,000
Motor spirit ..	2,438,893	3,471,890	2,492,642	2,568,964	2,524,000	2,424,000
White spirit ..	46,386	54,092	100,112	67,398	57,000	61,000
Kerosine ..	1,229,122	1,229,209	1,535,172	1,326,787	1,060,000	830,000
Aviation turbine fuel ..	1,859,385	2,340,282	2,006,922	1,660,951	2,155,000	2,264,000
Gas oil ..	2,744,541	3,991,875	3,216,223	3,186,203	3,665,000	4,378,000
Diesel oil ..	1,916,776	1,926,428	1,848,607	1,470,405	1,296,000	1,302,000
Fuel oil ..	22,928,528	18,805,434	19,766,415	20,162,668	20,792,000	21,802,000
Lubricating oil ..	602,087	617,446	648,592	723,507	655,000	814,000
Asphalt ..	683,698	746,627	861,786	840,671	894,000	835,000
United States—						
Crude petroleum ..	6,699,100	579,300	336,600	411,639	430,373	239,015
Natural gasoline ..	5,193	404	249	144	942	995
Aviation spirit ..	1,647,178	1,326,260	1,151,129	697,894	323,678	161,654
Motor spirit ..	1,447,482	644,359	397,333	261,408	77,085	62,343
Other finished light products ..	147,421	121,601	127,471	125,301	128,492	146,658
Kerosine ..	625,450	145,140	118,816	75,106	26,767	39,680
Aviation turbine fuel ..	13,043	22,274	22,221	14,382	15,452	10,585
Gas oil and distillate fuel oil ..	6,309,909	2,400,356	1,775,327	1,366,620	957,356	1,248,478
Residual fuel oil ..	4,794,343	3,298,243	3,109,005	2,742,096	2,080,066	1,874,269
Fuel oil (bunkers) ..	13,765,000	12,193,000	12,225,000	11,835,000	10,801,000	11,835,000
Lubricating oil ..	1,808,751	1,687,949	1,826,293	2,079,634	2,248,462	2,326,245
Transformer oil ..	27,370	24,743	31,021	34,229	43,181	43,188
Greases ..	58,842	45,995	51,998	51,885	47,551	52,678
Paraffin wax ..	107,623	91,368	102,163	137,697	123,440	144,801
Petroleum jelly ..	36,126	34,252	34,812	34,613	32,911	31,884
Natural asphalt and bitumen ..	27,493	24,591	26,499	28,571	29,455	40,790
Other asphalt, etc. ..	250,748	175,854	132,007	127,753	82,793	116,384
Petroleum coke ..	924,288	786,751	835,778	1,224,644	1,298,341	1,331,473
Liquefied petroleum gases ..	382,908	240,809	189,902	252,196	299,434	326,923
Natural gas (<i>million cu. ft.</i>) ..	41,655	38,719	18,413	11,332	10,747	14,835
Argentina—						
Asphalt ..	36	48	80	1,808	348	1,092
Grahamite ("Rafaelite") ..	1,393	1,832	1,553	2,125	1,152	713
Bolivia—						
Crude petroleum ..	131,886	149,900	119,854	130,912	83,514	106,000
Motor spirit ..	21,995	16,739	355	3,491	7,035	7,000
Kerosine ..	1,265	1,141	—	16	—	600

(a) Foreign produce. See imports.

(b) Imports into the United States.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Brazil—						
Crude petroleum ..	—	1,125,859	1,444,260	579,081	1,035,867	292,855
Fuel oil	141,003	183,018	44,204	59,057	73,643	75,926
Chile—						
Crude petroleum ..	46,417	—	66	—	—	n.a.
Colombia—						
Crude petroleum ..	3,966,031	3,359,987	3,917,684	4,284,315	3,800,199	3,348,082
Fuel oil	270,015	639,271	627,469	576,704	395,166	597,856
Ecuador—						
Crude petroleum ..	163,157	91,326	37,316	—	—	n.a.
Peru—						
Crude petroleum ..	427,445	315,593	291,416	331,032	330,958	362,406
Natural gasoline ..	19,538	6,450	1,613	1,501	919	3,168
Aviation spirit ..	52,038	37,677	52,081	54,838	6,580	1,654
Motor spirit	87,558	31,026	33,089	22,492	4,894	357
White spirit	9	58	515	—	—	—
Kerosine	129,508	93,312	101,518	83,214	36,513	671
Gas oil (c)	133,192	71,746	41,232	168,805	188,978	112,643
Fuel oil and diesel oil ..	142,117	108,253	94,026	80,485	68,568	} 130,691
do. (bunkers) ..	29,775	25,524	22,287	30,862	36,437	
Lubricating oil and grease	1,631	843	732	109	331	1,211
Asphalt	681	—	—	—	20	—
Uruguay (a)—						
Motor spirit, etc. ..	4,000	4,000	5,000	10,000	n.a.	n.a.
Kerosine	100	100	100	—	n.a.	n.a.
Gas oil and diesel oil ..	43,000	40,000	32,000	48,000	n.a.	n.a.
Fuel oil	179,000	159,000	98,000	201,000	n.a.	n.a.
Venezuela—						
Crude petroleum ..	106,634,686	96,039,208	101,561,805	102,975,795	104,045,485	113,757,962
Motor spirit	1,402,057	1,853,480	2,326,159	2,099,542	2,265,766	2,349,614
Kerosine	558,318	818,929	790,185	601,461	877,551	1,160,292
Aviation turbine fuel ..	n.a.	n.a.	16,117	185,740	263,987	552,917
Gas oil	2,545,487	3,513,975	3,368,399	2,801,104	3,348,942	3,739,665
Diesel oil	1,873,097	1,702,140	1,957,551	2,872,191	2,558,107	2,759,686
Fuel oil	18,010,505	19,726,698	22,549,506	26,848,862	27,826,224	29,619,033
Lubricating oil ..	121,596	164,783	150,600	208,144	194,323	242,623
Paraffin wax	n.a.	n.a.	12,535	15,503	—	—
Asphalt	495,199	693,981	435,256	453,222	490,927	539,476
Burma—						
Paraffin wax	4,882	5,457	6,554	5,133	7,617	9,649
Formosa—						
Motor spirit, etc. ..	132	1,855	1,114	836	10,666	35,818
Fuel oil	108,234	—	—	11,614	39,018	32,788
Asphalt	12,760	4,931	9,395	6,933	31,573	36,745
Indonesia—						
Crude petroleum ..	6,839,804	7,226,632	4,373,664	7,298,643	9,577,801	n.a.
Motor spirit	1,816,272	1,401,743	1,388,264	1,477,656	1,149,511	n.a.
White spirit	56,972	70,250	6,975	—	—	n.a.
Kerosine	916,146	380,543	487,694	484,569	427,653	n.a.
Gas and diesel oils ..	1,585,532	1,156,930	1,077,915	1,159,883	913,687	n.a.
do. do. (bunker oil)	121,054	78,088	85,878	104,131	123,817	n.a.
Fuel oil	3,536,477	2,483,162	2,484,688	2,753,259	2,423,030	n.a.
do. (bunker oil) ..	408,247	284,492	395,832	337,582	517,113	n.a.
Lubricating oil ..	23,480	31,693	52,585	41,568	20,146	n.a.
Paraffin wax	62,778	42,386	47,874	52,160	61,278	n.a.
Asphalt	—	—	—	—	—	n.a.
Iran (b)—						
Crude petroleum ..	19,117,782	23,974,019	29,725,588	31,932,790	34,368,680	44,302,500
Motor spirit	3,987,031	2,005,087	1,856,594	2,936,004	4,054,836	3,317,500
Kerosine	1,716,704	1,653,896	1,673,307	1,268,221	1,268,350	855,100

(a) Bunkers on foreign ships only.

(c) Including bunkers.

(b) Years ended March 20 following that stated.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962	
OTHER COUNTRIES							
<i>(cont.)</i>							
Iran <i>(cont.)</i> —							
Gas oil	} 6,031,177	{ 1,122,774	1,160,312	1,027,264	1,056,240	1,112,400	
Diesel oil			1,703,659	921,809	863,817	888,160	593,000
Fuel oil			5,381,847	5,288,315	6,888,959	6,659,565	6,344,800
Iraq—							
Crude petroleum ..	19,938,000	33,255,000	39,169,282	44,490,282	45,851,135	45,937,931	
Motor spirit	115	—	722	560	<i>n.a.</i>	<i>n.a.</i>	
Kerosine	71	563	172	—	<i>n.a.</i>	<i>n.a.</i>	
Japan—							
Aviation spirit (foreign produce) (bunkers) ..	45,048	49,701	58,153	94,662	<i>n.a.</i>	<i>n.a.</i>	
Motor spirit	10,735	207,892	237,502	262,060	460,436	319,111	
Kerosine	12	4	14,887	72,276	40,409	68,400	
Gas oil	1	—	14,816	82,761	77,450	75,022	
Fuel oil, etc. (bunkers)—							
Domestic produce ..	136,919	118,383	108,645	192,612	<i>n.a.</i>	<i>n.a.</i>	
Foreign produce ..	2,015,099	1,706,886	2,413,814	3,775,913	<i>n.a.</i>	<i>n.a.</i>	
Lubricating oils ..	193	570	2,667	5,229	6,680	10,675	
Paraffin wax	8,395	12,592	11,656	11,310	9,080	8,355	
Asphalt and pitch ..	2,499	2,056	30,433	28,885	67,570	81,758	
Kuwait—							
Crude petroleum ..	54,910,338	63,090,053	61,279,115	71,488,439	72,997,668	81,298,330	
Light distillate ..	109,376	750,347	785,310	667,884	600,096	565,000	
Gas oil	<i>n.a.</i>	809,620	960,061	1,478,982	1,460,859	1,795,000	
Diesel oil	—	113,743	382,536	271,357	48,348	91,000	
do. (bunkers) ..	233,945	337,835	224,484	172,655	141,201	(<i>d</i>)	
do. do. (c)	196,302	18,442	—	—	—	—	
Fuel oil	—	1,137,584	1,697,631	2,176,610	2,094,033	2,035,000	
do. (bunkers) ..	822,090	2,199,515	2,357,238	2,911,169	2,947,494	3,612,000	
do. do. (c)	1,251,685	64,057	—	—	—	—	
Netherlands New Guinea—							
Crude petroleum ..	326,486	262,782	241,106	244,579	164,791	<i>n.a.</i>	
Neutral Zone (<i>a</i>)—							
Crude petroleum ..	3,242,000	(<i>b</i>)4,000,000	(<i>b</i>)4,640,000	(<i>b</i>)5,605,000	7,463,000	9,394,000	
Fuel oil	<i>n.a.</i>	<i>n.a.</i>	(<i>b</i>) 875,000	(<i>b</i>) 715,000	975,000	2,478,000	
Saudi Arabia—							
Crude petroleum ..	38,515,549	41,085,199	44,758,739	49,948,993	55,955,606	62,089,088	
Aviation spirit	} <i>n.a.</i>	} <i>n.a.</i>	—	2,300	18,700	<i>n.a.</i>	
Motor spirit			724,700	956,200	811,300	<i>n.a.</i>	
Kerosine			545,600	710,900	611,000	<i>n.a.</i>	
Aviation turbine fuel ..			402,400	317,900	411,600	<i>n.a.</i>	
Diesel oil			1,316,900	1,264,900	1,504,700	<i>n.a.</i>	
Fuel oil			2,840,900	4,447,700	5,119,100	<i>n.a.</i>	
Syria—							
Natural asphalt ..	4,675	625	217	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	

 (*a*) Neutral Zone of Kuwait and Saudi Arabia.

 (*b*) Estimated.

 (*c*) Foreign produce. See imports.

 (*d*) Included with fuel oil.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS*

(Less Re-exports)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Crude petroleum ..	27,960,498	33,744,783	39,238,039	44,611,161	48,900,509	52,828,715
Aviation spirit (a) ..	334,192	293,946	452,990	259,636	289,035	187,019
Aviation turbine fuel ..	20,000	19,703	100,205	96,447	144,719	104,283
Motor spirit ..	1,967,228	1,933,155	2,242,266	2,103,253	2,192,403	2,354,212
Other spirit ..	275,385	123,755	118,514	305,056	342,670	707,923
Kerosine ..	991,620	783,090	1,045,003	649,562	482,884	716,283
Aviation jet fuel ..	478,713	328,223	235,908	75,081	81,527	182,883
Fuel oil (a) ..	3,892,485	4,819,310	5,217,358	7,415,901	5,310,629	3,137,483
Diesel oil ..	180,432	85,332	233,923	76,042	121,856	173,178
Gas oil ..	2,080,135	1,874,365	1,980,289	2,116,763	2,042,461	2,172,586
Lubricating oil ..	390,972	403,480	410,355	489,117	515,185	513,581
Mineral jelly ..	8,261	5,381	5,538	6,294	4,824	4,583
Paraffin wax ..	33,372	30,216	32,383	35,545	31,682	23,967
Other petroleum wax ..	6,985	6,949	54,605	58,677	53,579	836,787
Petroleum coke ..	30,876	49,333	66,114	61,459	44,272	58,869
Asphalt and bitumen (d)	74,371	68,614	61,694	75,102	83,866	86,040
Channel Islands—						
Aviation spirit ..	4,448	4,876	3,977	4,503	3,558	3,975
Motor spirit ..	18,033	19,823	21,317	23,649	25,777	26,369
Other spirit (b) ..	68	69	65	657	42	309
Kerosine ..	2,102	4,378	4,906	7,223	9,854	12,796
Gas and fuel oil ..	40,918	55,796	68,485	93,220	100,449	126,333
Lubricating oil ..	1,067	1,446	1,493	1,406	1,504	1,679
Greases (b) ..	17	17	21	47	26	27
Gibraltar (e)—						
Motor spirit, fuel oil, etc.	5,000	5,000	5,000	5,000	21,529	20,727
Kerosine ..	288	300	250	220	41	50
Malta—						
Aviation spirit (a) ..	27,721	22,831	16,407	12,360	6,972	9,998
Motor spirit ..	18,251	16,646	18,258	18,674	20,330	16,167
Aviation turbine fuel (a)	4,002	809	43,435	37,005	26,097	30,595
Kerosine ..	62,287	75,073	23,069	27,624	27,339	25,137
Fuel oil (a) ..	38,080	33,575	63,673	39,902	39,322	56,092
Gas oil (a) ..	19,459	17,054	19,517	17,638	17,453	17,863
Lubricating oil ..	1,343	1,068	1,438	1,301	1,367	1,532
Gambia—						
Aviation spirit ..	669	(c) 87	39	—	284	—
Motor spirit ..	2,858	2,598	2,310	1,920	2,938	3,129
Kerosine ..	576	822	538	475	667	698
Aviation turbine fuel ..	—	16	(c) 76	(c) 32	415	175
Other fuel oils ..	307	512	(c) 3,484	—	—	115
Gas oil ..	1,764	1,031	2,060	1,446	2,808	2,908
Diesel oil ..	1,403	2,806	751	1,591	521	553
Lubricating oil ..	262	293	206	272	229	354
Asphalt and bitumen ..	—	243	295	70	296	867
Ghana—						
Aviation spirit (a) ..	6,253	5,617	4,146	5,838	2,518	3,228
Motor spirit ..	132,464	136,740	125,156	138,466	103,127	133,482
Kerosine ..	39,767	40,848	45,690	49,742	41,554	61,489
Fuel oil (a) ..	42,041	69,867	46,976	62,731	25,260	32,762
Gas oil (a) ..	85,258	103,906	112,938	165,427	125,477	190,623

*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.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES (cont.)						
Ghana (cont.)—						
Diesel oil	29,822	3,514	29,376	7,274	99,580	31,225
Lubricating oil (b) ..	11,020	9,686	12,004	12,678	12,423	15,424
Greases	314	480	475	561	540	752
Asphalt and bitumen ..	17,641	8,859	13,910	16,027	15,415	39,136
Kenya—						
Aviation spirit (b) ..	13,514	16,107	10,774	20,450	14,959	n.a.
Motor spirit (b) ..	100,263	113,100	109,227	110,711	106,527	n.a.
Kerosine	39,106	63,892	43,391	63,878	74,264	96,570
Gas, diesel, fuel oils (b)	630,404	531,181	594,422	603,302	573,589	n.a.
Lubricating oil (b) ..	8,906	13,034	1,952	9,127	14,296	n.a.
Greases	659	647	355	649	922	832
Petroleum jelly and paraffin wax	(a) 75	209	215	312	354	459
Asphalt	13,607	9,832	17,726	12,783	16,178	16,910
Mauritius—						
Aviation spirit (b) ..	1,389	2,279	1,676	2,245	1,293	2,664
Motor spirit	24,275	24,680	28,426	27,559	12,109	23,509
Kerosine	3,548	3,590	3,034	4,518	4,158	5,491
Lubricating oils ..	1,444	1,586	1,436	1,779	2,065	1,881
Gas, diesel, fuel oils (b)	27,699	22,274	28,058	22,576	39,861	47,990
Grease	109	97	156	109	147	200
Asphalt and pitch ..	4,766	3,635	2,848	5,003	4,085	2,763
Nigeria—						
Aviation spirit	28,194	r 30,976	17,091	r 28,939	21,624	n.a.
Motor spirit	161,126	160,041	193,437	194,669	211,180	n.a.
White spirit	r 93	160	(a) 5	222	101	n.a.
Aviation turbine fuel ..	r 4,339	4,145	7,835	r 6,900	28,394	n.a.
Kerosine	62,768	69,531	96,825	r 94,502	102,358	n.a.
Gas oil (b)	27,327	31,414	78,821	r 100,453	169,050	n.a.
Diesel oil (b)	r 59,625	103,556	r 76,141	r 91,293	45,150	n.a.
Fuel oil (b)	r 36,965	r 36,309	58,856	58,630	166,526	n.a.
Lubricating oil	r 13,089	r 10,642	13,049	17,707	17,329	n.a.
Greases	457	627	757	833	771	n.a.
Petroleum jelly	213	413	230	r 162	41	n.a.
Asphalt and bitumen ..	11,838	r 25,789	r 32,661	r 41,849	11,634	21,903
Rhodesia and Nyasaland—						
Aviation spirit	12,331	10,944	10,062	11,486	10,267	9,417
Motor spirit	221,074	240,589	239,523	237,895	244,723	248,642
Kerosine	36,546	40,881	37,033	40,607	40,867	42,782
Aviation jet fuel			13,373	17,640	25,878	32,664
White spirit	13,235	15,061	n.a.	1,672	2,251	2,253
Other oils			2,482	2,203	1,396	1,372
Gas oil	150,328	167,493	154,371	164,331	174,185	191,788
Fuel oil			7,511	5,319	4,599	6,065
Lubricating oil	21,874	19,034	18,335	20,234	17,528	21,153
Greases (c)	2,456	1,705	2,063	2,050	1,803	2,040
Paraffin wax	1,435	1,060	1,210	1,637	1,462	2,022
Asphalt and bitumen ..	27,426	23,480	25,776	29,384	17,288	21,254
St. Helena—						
Motor spirit	123	252	173	260	191	220
Kerosine	65	125	46	104	97	130
Fuel oils	85	135	78	168	141	208
Lubricating oil	7	18	7	6	10	15
Seychelles—						
Motor spirit	208	263	244	378	388	370
Kerosine	265	269	271	349	372	402
Fuel oil	196	302	r 227	584	650	860
Sierra Leone—						
Aviation spirit (b) ..	(a) 132	718	200	455	1,686	1,454

(a) Excess of re-exports.

(c) Including mineral jelly.

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

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES (cont.)						
Sierra Leone (cont.)—						
Motor spirit	17,886	16,499	21,109	15,377	19,372	21,571
Kerosine	12,712	9,627	13,713	10,800	11,102	13,576
Gas oil (a)	3,987	5,025	15,194	7,069	138,696	158,084
Diesel oil (a)	81,330	76,077	81,450	122,733		
Fuel oil (a)	237,855	151,617	164,863	159,929	219,515	179,422
Lubricating oil	1,334	1,587	1,331	1,964	2,134	2,317
Asphalt and bitumen	2,211	4,034	1,788	1,587	2,900	2,972
Tanganyika—						
Aviation spirit (a)	3,614	2,724	3,174	3,481	3,047	n.a.
Motor spirit	75,019	72,204	66,926	64,085	58,566	63,316
Kerosine	30,928	25,429	30,351	29,741	30,636	37,787
Gas, diesel, fuel oils (a)	145,554	172,645	138,339	184,033	165,573	n.a.
Lubricating oil	4,716	6,320	4,886	6,441	6,048	8,086
Greases	374	503	506	381	650	605
Petroleum jelly and paraffin wax	43	75	62	25	47	91
Asphalt	4,630	4,237	5,367	3,960	7,699	3,390
Uganda—						
Aviation spirit (a)	4,269	4,548	3,487	3,341	3,703	n.a.
Motor spirit	55,057	55,535	55,805	57,820	54,719	55,768
Kerosine	21,762	22,027	22,457	23,315	27,536	30,108
Gas, diesel, fuel oils	37,815	46,142	38,612	38,586	37,289	43,177
Lubricating oil	3,245	3,745	3,648	3,671	3,544	3,797
Greases	295	339	422	419	302	362
Petroleum jelly and paraffin wax	51	64	70	85	93	126
Asphalt	3,647	4,046	2,891	977	4,568	1,755
Zanzibar—						
Aviation and motor spirit	4,235	4,043	3,780	4,155	4,034	4,216
Kerosine, etc.	3,595	3,031	3,241	3,266	2,372	2,804
Fuel oils	2,996	3,230	3,599	3,337	3,711	5,031
Canada—						
Crude petroleum	15,986,482	14,862,686	16,469,806	17,937,090	19,035,569	19,216,815
Tops for refiners	—	231,621	—	—	—	—
Aviation spirit	372,086	262,621	314,011	193,585	115,909	75,947
Motor spirit	299,827	332,222	311,588	101,729	84,493	90,496
Kerosine, etc.	58,685	37,807	74,946	108,926	33,485	34,782
Lubricating oils	162,499	139,433	163,686	163,903	153,765	150,563
Diesel oil	249,317	229,228	222,234	368,456	324,282	373,528
Fuel oil	3,007,023	2,763,151	3,909,523	3,511,635	2,962,946	3,094,324
do. (b)	232	2,388	5,891	1,966	2,518	1,269
Other petroleum oils	7,211	4,374	3,740	3,992	7,208	5,178
Liquefied petroleum gas	96,983	36,275	7,245	12,052	7,813	6,719
Grease	7,860	6,960	7,415	7,371	6,911	6,944
Paraffin wax, etc.	19,405	19,921	21,723	18,614	18,610	17,006
Asphaltum oil, etc.	2,038	2,495	4,194	5,980	5,565	6,292
Asphalt	38,242	23,231	31,639	24,743	28,289	15,397
Petroleum coke	380,024	268,073	281,011	360,130	326,557	301,846
Other products	75,035	89,646	95,305	129,396	142,852	138,928
Natural gas (million cubic feet)	30,551	34,716	11,963	5,571	5,574	5,575
Antigua—						
Aviation spirit	1,142	1,919	2,265	1,437	2,906	2,888
Motor spirit	1,833	2,493	2,343	2,871	3,339	3,243
Kerosine	1,085	1,582	1,710	4,061	5,170	9,929
Fuel oils	3,232	3,928	3,660	3,657	5,988	6,745
Lubricating oil	200	249	574	163	378	100

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

(b) Ex warehoused, for ships' stores.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES (cont.)						
Bahamas—						
Motor spirit	23,164	23,623	31,266	35,738	43,980	40,174
Kerosine	6,487	7,058	10,916	11,171	13,018	10,233
Fuel oils	24,629	26,029	42,521	41,246	59,900	88,204
Lubricating oil ..	808	540	928	964	1,492	1,112
Barbados—						
Crude petroleum ..	6,719	5,581	8,816	10,542	23,218	n.a.
Aviation spirit (b) ..	1,264	1,223	1,906	2,316	2,232	2,252
Motor spirit	14,373	15,217	14,033	14,879	10,965	14,977
Kerosine	8,952	10,109	9,994	11,149	10,135	10,420
Gas oil and diesel oil ..	12,319	13,827	22,539	18,992	15,851	157,638
Fuel oil						
Lubricating oil ..	709	812	1,165	559	962	668
Bermuda (b)—						
Aviation and motor spirits	88,560	80,806	119,539	93,905	96,264	70,859
Aviation turbine fuel ..	5,005	24,515	26,528	27,985	38,113	43,838
Kerosine	4,654	3,242	21,253	14,872	22,069	22,768
Diesel oil	19,157	22,305	31,229	n.a.	41,375	48,411
Fuel oil	25,232	10,808	9,304	18,453	19,974	12,349
Lubricating oil ..	1,662	1,770	1,300	901	957	1,025
Asphalt	1,600	865	1,990	1,884	577	1,614
British Honduras—						
Aviation spirit	224	(a) r 241	277	326	41	207
Motor spirit	3,976	4,729	5,390	4,974	4,258	8,089
Kerosine	1,941	2,919	2,959	2,884	2,236	4,744
Diesel and fuel oils ..	r 3,061	r 4,755	r 4,645	r 4,906	9,989	8,847
Lubricating oil ..	396	326	465	396	490	828
Asphalt, etc.	489	966	379	809	102	516
Cayman Islands—						
Aviation and motor spirits	946	1,598	1,657	1,688	1,716	1,537
Kerosine	331	474	481	933	1,380	857
Diesel oil	180	297	396	1,059	972	358
Dominica—						
Motor spirit	1,071	1,028	1,485	1,255	1,980	1,753
Kerosine	470	466	723	648	960	920
Fuel oil and diesel oil ..	477	631	1,041	913	1,184	1,011
Lubricating oil ..	59	79	127	155	238	69
Road oil	31	115	968	149	246	291
Grenada—						
Motor spirit	1,975	2,235	2,680	3,418	2,933	n.a.
Kerosine	961	1,371	1,236	r 1,636	1,679	n.a.
Fuel oils	1,014	1,284	1,016	2,039	1,235	n.a.
Lubricating oil ..	90	97	149	r 146	209	n.a.
Road oil	528	647	1,143	1,571	1,496	n.a.
Jamaica—						
Aviation spirit (b) ..	18,688	15,312	19,568	17,674	12,341	12,007
Motor spirit	55,959	60,884	69,657	r 71,021	78,190	84,927
Kerosine	22,301	25,937	29,366	r 35,224	20,602	37,938
Gas oil (b)	47,520	41,731	43,102	r 83,753	52,235	53,058
Diesel oil (b)	75,073	67,671	77,409	r 70,213	91,862	89,606
Fuel oil (b)	391,612	366,038	490,641	r 393,705	596,994	497,743
Lubricating oil ..	3,796	3,640	4,853	4,717	5,179	5,545
Grease	480	385	492	442	354	385
Petroleum jelly ..	159	207	195	224	248	246
Paraffin wax	16	16	20	23	12	12
Natural asphalt ..	2,774	3,027	4,886	3,571	1,812	2,348
Montserrat—						
Motor spirit	n.a.	234	241	143	340	350
Kerosine	n.a.	98	156	129	213	232
Fuel oils	n.a.	193	237	348	359	606
Lubricating oil ..	n.a.	3	7	5	18	29

(a) Excess of re-exports.

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

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES (cont.)						
St. Kitts—						
Motor spirit	1,421	1,167	2,301	1,298	(c) 2,443	1,380
Kerosine	1,160	1,262	1,390	1,313	(c) 2,118	1,873
Fuel oils	866	909	1,629	1,740	(c) 2,908	1,975
Lubricating oil ..	95	101	132	145	(c) 172	135
St. Lucia—						
Motor spirit	1,048	1,081	1,371	1,706	2,044	1,965
Kerosine	531	580	729	735	975	925
Fuel oil	1,946	2,057	r 1,806	1,704	2,702	2,429
Lubricating oil ..	r 103	109	r 82	142	141	112
Road oil	1,020	604	894	510	1,145	62
St. Vincent—						
Aviation and motor spirits	1,250	1,568	1,977	1,997	2,237	2,199
Kerosine	718	883	978	1,355	1,247	1,401
Gas, diesel and fuel oils	384	600	634	693	762	657
Lubricating oil ..	55	90	95	89	95	76
Road oil	602	717	1,443	1,226	860	439
Asphalt	3	2	10	1	5	4
Trinidad and Tobago—						
Crude petroleum ..	2,556,239	3,602,473	4,394,648	5,642,917	8,795,309	9,036,205
Aviation and motor spirits	(a) 8	1,440	2,029	1	—	—
Kerosine	4,401	1,720	(a) 6	—	4	—
Gas oil	57,523	113,051	140,309	144,021	—	—
Fuel oil	(a) 305	—	22,278	6,681	—	18,337
Lubricating oil ..	8,853	4,732	6,161	7,000	6,558	6,572
Greases	292	(a) 336	330	110	378	246
Petroleum jelly ..	62	105	n.a.	365	100	88
Paraffin wax	8	104	29	21	18	27
Turks and Caicos Islands—						
Aviation and motor spirit	82	109	174	157	156	n.a.
Kerosine	101	118	155	187	189	n.a.
Gas, diesel and fuel oils	76	180	752	804	98	n.a.
Lubricating oil ..	—	3	4	9	7	n.a.
Virgin Islands—						
Motor spirit	153	132	193	272	314	768
Kerosine	135	135	133	150	140	316
Diesel oil	14	62	82	162	122	430
Lubricating oil ..	5	8	13	9	10	30
British Guiana—						
Aviation spirit (b) ..	1,195	1,859	1,809	4,156	7,929	n.a.
Motor spirit	16,946	17,554	19,241	19,705	21,967	n.a.
Kerosine	11,771	12,983	14,452	16,203	16,385	n.a.
Gas, diesel and fuel oils	140,562	112,798	147,231	172,243	414,193	n.a.
Lubricating oil ..	2,449	2,181	2,378	3,809	2,780	n.a.
Grease	243	179	199	331	292	n.a.
Paraffin wax	11	23	24	30	27	n.a.
Petroleum jelly ..	38	53	71	73	66	n.a.
Road oil	1,108	1,212	697	1,340	1,345	n.a.
Asphalt and bitumen ..	295	1,060	327	436	2,850	n.a.
Asphalt natural ..	137	558	486	1,065	879	n.a.
Falkland Islands—						
Motor spirit	210	266	205	244	259	253
Kerosine	11	128	29	50	30	31
Gas and diesel oils ..	8,454	8,472	2,573	11,834	3,883	54
Fuel oil (b)	97,311	115,314	57,365	589,463	63,178	31,168
Lubricating oil ..	114	349	227	184	128	25

(a) Excess of re-exports.

(c) Total imports.

(b) Including imports for bunkering purposes.

See exports.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES (cont.)						
Aden Colony—						
Crude petroleum ..	4,416,767	3,691,645	4,139,454	4,205,582	5,284,281	6,216,214
Motor spirit	15,520	20,661	18,108	35,822	26,921	33,992
Kerosine	—	28,763	91,504	31,293	—	761
Gas and fuel oils (c) ..	557,336	1,381,438	1,445,233	1,745,475	1,591,976	1,138,797
Lubricating oil and greases	5,041	4,173	4,287	4,319	4,097	n.a.
Aden Protectorate (b)—						
Motor spirit	11,753	8,455	6,162	4,406	8,603	(e)
Kerosine	5,123	6,441	9,849	6,963	7,260	(e)
Gas and fuel oils ..	4,332	7,860	4,632	2,193	5,109	(e)
Lubricating oil and grease	176	207	173	170	98	(e)
Bahrain Islands (a)—						
Crude petroleum ..	7,295,000	7,341,000	7,011,000	7,943,000	8,444,000	(e)
British Borneo—						
Brunei—						
Aviation and motor spirits	4,485	4,176	2,197	r 526	525	103
Kerosine	1,139	837	1,270	1,653	1,233	1,547
Diesel oil	2,695	182	47	—	(d) 24	(d) 27
Fuel oil	—	6	—	7	(d) 11	4
Lubricating oil ..	2,884	1,345	1,294	928	1,188	1,670
Grease	52	38	23	24	29	117
North Borneo—						
Aviation and motor spirits (c)	3,070	2,978	19,917	13,752	16,872	22,646
Kerosine	4,110	3,982	9,145	9,346	6,886	9,425
Diesel oil (c)	6,355	5,351	24,651	26,067	27,184	35,590
Fuel oil (c)	3,172	905	7,160	8,418	8,941	7,561
Lubricating oil ..	890	516	2,670	3,799	3,441	3,640
Sarawak—						
Crude petroleum ..	5,441,292	5,125,219	5,313,995	4,505,041	3,708,753	3,840,782
Aviation spirit	667	577	928	878	693	1,391
Motor spirit	9,179	8,911	11,116	11,601	12,220	13,174
Kerosine	7,697	8,142	8,640	9,493	10,621	11,155
Gas oil	6,619	8,226	10,466	12,798	16,259	15,830
Diesel oil	5,545	6,154	3,982	2,814	3,527	4,635
Fuel oil	595	718	3,612	4,255	5,971	6,225
Lubricating oil ..	1,608	1,746	2,187	2,264	2,303	2,650
Paraffin wax	4	8	3	14	14	16
Mineral jelly	35	46	37	31	25	31
Natural gas (million cubic feet) ..	2,545	2,480	2,540	2,693	2,421	2,473
Ceylon—						
Aviation spirit (c) ..	8,670	8,531	8,215	3,041	2,877	1,985
Motor spirit	177,113	141,613	151,838	154,445	164,435	134,160
Kerosine	110,155	122,594	134,477	144,174	154,795	176,634
Gas oil (c)	72,372	63,469	90,679	100,411	125,452	153,647
Diesel oil (c)	190,046	126,587	130,999	99,560	147,795	138,973
Fuel oil (c)	805,776	429,870	415,232	355,677	421,599	391,499
Lubricating oil ..	10,190	7,279	13,055	9,226	10,022	12,788
Other oils and greases	759	388	680	555	494	637
Paraffin wax	255	656	259	768	384	506
Asphalt (incl. natural) ..	4,347	8,763	24,560	18,102	1,719	3,718
Cyprus—						
Aviation spirit (c) ..	8,190	13,221	6,962	8,932	5,665	3,074
Motor spirit	50,218	54,334	53,864	59,430	55,396	59,408
Aviation turbine fuel ..	35,738	59,300	41,664	35,726	22,584	4,332
Kerosine, etc.	22,432	22,602	24,661	23,367	21,886	25,273
Gas oil	59,498	67,631	61,032	61,189	67,728	68,090

(a) British Protected State.

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

(b) Exports from Aden Colony to the Protectorate.

(d) Excess of re-exports.

(e) Included with Aden Colony.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
<i>(cont.)</i>						
Cyprus (cont.)—						
Other fuel oils ..	99,518	74,071	98,901	111,545	103,866	111,824
Lubricating oil ..	3,158	2,642	3,044	2,575	3,778	2,812
Paraffin wax ..	164	184	193	234	96	194
Asphalt and bitumen ..	5,512	5,491	5,293	7,771	10,925	13,527
Hong Kong—						
Aviation spirit ..	11,899	19,003	19,772	11,666	12,541	7,620
Motor spirit ..	45,473	56,260	69,344	65,097	66,274	56,341
White spirit ..	3,468	3,844	5,152	5,438	5,191	10,042
Aviation turbine fuel ..	75,754	79,082	17,676	38,547	54,288	83,149
Kerosine ..			85,396	97,514	109,870	123,990
Diesel oil and gas oil ..	178,254	176,854	180,325	194,218	230,244	259,630
Fuel oil ..	725,464	760,466	727,319	777,057	859,121	970,877
Lubricating oil ..	9,228	7,577	8,710	11,620	12,306	17,897
Greases ..	594	385	418	963	828	921
Petroleum jelly ..	68	157	89	267	310	318
Paraffin wax ..	1,174	887	1,406	1,168	1,249	1,549
Asphalt and bitumen ..	10,474	6,649	12,532	9,903	10,366	11,443
Asphalt (natural) ..	258	156	320	468	658	483
India—						
Crude petroleum ..	3,463,319	1,779,734	1,183,500	(b)2,658,517	(b)6,220,280	(b)4,258,742
Aviation and motor spirits (a) ..	142,914	70,831	82,247	} (b) 85,472	(b) 105,168	(b) 98,559
Other spirit ..	1,112	139	113		(b) 907,283	(b) 711,235	(b)1,590,508
Kerosine ..	1,163,311	940,579	1,073,208	(b) 276,310	(b) 343,502	(b) 452,200
Diesel oil ..	n.a.	n.a.	261,000	(b) 71,785	(b) 164,983	(b) 200,920
Fuel oil (a) ..	22,080	32,978	32,330	(b) 310,333	(b) 232,834	(b) 272,903
Lubricating oil ..	290,160	161,106	198,339	(b) 13,044	(b) n.a.	(b) n.a.
Turpentine substitute ..	9,341	6,197	12,407	(b) (c)	(b) (c)	(b) (c)
Greases ..	3,700	3,255	3,502	(b) 1,857	(b) 1,735	(b) 1,513
Petroleum jelly ..	1,619	2,208	1,962	(b) 7	(b) 11	(b) 16
Paraffin wax ..	5	3	6	(b) 11,533	(b) 18,042	(b) 10,525
Asphalt and bitumen ..	33,281	14,248	6,126			
Goa—						
Motor spirit ..	25,391	19,187	11,840	18,337	n.a.	n.a.
Kerosine ..	10,556	7,021	5,539	5,513	n.a.	n.a.
Lubricating oils ..	1,160	855	1,395	1,327	n.a.	n.a.
Other oils ..	14,916	9,354	12,183	17,854	n.a.	n.a.
Malaya—						
Crude petroleum ..	843,278	788,976	285,213	279,090	1,276,487	3,266,002
Aviation spirit ..	257,390	173,304	225,709	126,571	172,075	163,456
Motor spirit ..	1,129,833	993,531	1,021,451	1,048,410	837,632	662,154
White spirit ..	60,648	61,451	82,441	91,808	125,911	192,769
Aviation turbine fuel ..	44,291	116,275	170,689	234,370	253,647	273,934
Kerosine ..	422,769	364,434	396,954	475,298	502,454	453,848
Gas oil ..	785,756	755,001	757,751	912,781	836,643	796,766
Diesel oil ..	660,700	715,539	599,986	669,809	986,382	914,698
Fuel oil ..	2,932,940	2,477,186	2,174,469	2,193,394	2,878,306	2,575,167
Lubricating oil ..	35,389	30,113	31,056	36,020	40,237	49,884
Paraffin wax ..	2,712	2,538	2,775	2,829	4,155	4,164
Petroleum jelly ..	727	742	733	1,271	705	667
Grease ..	1,672	1,099	1,169	1,839	1,712	2,236
Asphalt and bitumen ..	139,689	49,053	45,892	53,422	51,195	48,743
Natural asphalt ..	20	197	—	20	75	317
Pakistan—						
Motor spirit ..	19,428	17,536	62,800	n.a.	152,549	115,798
Other spirit ..	5,959	546	1,659	n.a.	n.a.	n.a.
Kerosine ..	97,910	76,894	152,872	n.a.	270,638	238,542
Diesel oil ..	180,384	195,242	270,669	n.a.	} 1,374,823	769,334
Fuel oil ..	189,112	121,913	470,426	n.a.		

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

(c) Included with lubricating oil.

(b) Years ended March 31 following that stated.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES (cont.)						
Pakistan (cont.)—						
Lubricating oil ..	30,617	30,406	57,763	n.a.	48,628	47,147
Other oils ..	686	12,515	14,646	n.a.	n.a.	n.a.
Grease ..	1,242	1,062	1,381	n.a.	n.a.	n.a.
Paraffin wax ..	760	1,662	1,009	n.a.	1,384	1,107
Asphalt ..	11,989	6,615	9,299	n.a.	25,354	41,836
Australia (b)—						
Crude petroleum ..	8,649,388	9,881,060	10,329,346	11,405,405	12,684,109	13,299,243
Aviation spirit (a) ..	103,964	84,839	86,634	62,793	38,643	48,004
Motor spirit ..	507,595	477,464	622,571	561,470	601,646	522,474
White spirit ..	53,030	55,258	56,456	49,108	55,807	46,806
Kerosine ..	414,395	367,969	334,945	320,990	345,107	254,197
Aviation turbine fuel ..	33,163	9,771	15,164	44,063	69,413	74,657
Lubricating oil ..	173,255	158,980	188,885	198,343	207,231	259,126
Gas, diesel and fuel oils (a) ..	147,878	104,877	52,995	75,102	55,229	271,150
Other oils ..	181,625	63,972	6,116	7,001	40,978	9,209
Petroleum jelly ..	1,593	2,089	2,001	1,951	1,586	1,236
Paraffin wax ..	6,338	8,069	7,345	7,638	6,728	5,405
Natural asphalt ..	1,578	2,141	1,768	2,610	1,369	1,277
Bitumen and pitch ..	645	1,083	768	978	1,011	544
Fiji—						
Aviation spirit (a) ..	16,120	19,138	13,647	12,681	8,431	9,517
Motor spirit ..	16,718	25,689	20,086	19,439	20,302	19,202
Aviation turbine fuel (a) ..	5,682	6,721	6,479	21,239	35,297	32,460
Kerosine ..	24,344	24,117	6,047	11,719	7,089	6,768
Diesel oil (a) ..	3,378	19,198	7,639	7,639	23,747	35,235
Fuel oil (a) ..	1,153	13,983	23,665	13,731	14,337	14,337
Lubricating oil ..	215	1,359	1,602	1,128	1,237	1,537
Greases ..	638	159	290	136	145	140
Bitumen ..	638	1,962	576	159	1,378	1,152
New Guinea (b)—						
Aviation and motor spirits ..	11,182	15,530	12,002	16,835	17,610	19,322
Kerosine ..	3,742	4,069	2,430	2,621	4,844	2,935
Fuel oils ..	10,306	15,076	15,198	14,718	23,329	21,049
Lubricating oil ..	908	774	1,020	1,029	1,110	1,115
New Hebrides—						
Aviation spirit ..	49	—	301	108	387	274
Motor spirit ..	1,980	2,411	2,731	2,490	2,239	1,825
Kerosine ..	1,077	964	996	915	966	1,218
Other oils ..	1,706	3,013	3,596	3,781	5,113	5,847
New Zealand—						
Aviation spirit (a) ..	27,760	33,697	27,314	34,612	33,847	960,435
Motor spirit ..	821,178	762,903	786,046	868,626	959,996	11,394
White spirit ..	9,073	11,897	10,687	12,284	12,205	46,338
Aviation turbine fuel ..	7,466	1,718	12,559	23,238	34,837	39,280
Kerosine ..	31,570	36,452	36,706	39,760	39,657	327,618
Gas oil ..	231,350	198,792	198,668	272,163	300,946	138,262
Diesel oil (a) ..	152,250	192,173	143,204	160,919	168,860	306,157
Fuel oil (a) ..	311,850	255,381	249,758	230,533	226,312	46,712
Lubricating oil (a) ..	33,410	33,078	34,006	44,286	43,044	1,767
Transformer oil ..	2,139	1,312	526	1,586	930	240
Petroleum jelly ..	349	200	215	244	158	2,141
Paraffin wax ..	1,979	1,468	1,520	1,283	1,390	n.a.
Ozokerite ..	3	3	3	3	8	63,722
Asphalt and bitumen ..	58,099	33,333	50,768	53,180	65,901	240
do. natural ..	791	188	462	709	610	

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

(b) Years ended June 30 of that stated.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES (cont.)						
<i>Papua (c)—</i>						
Aviation and motor spirits	10,652	7,126	10,144	12,673	10,034	11,333
Kerosine	377	202	1,572	2,145	2,536	1,319
Fuel oil	10,572	7,659	7,293	7,426	5,972	6,588
Lubricating oil and grease	715	578	626	389	653	511
<i>Solomon Islands—</i>						
Motor spirit	343	638	566	713	1,244	1,100
Kerosine	65	508	556	518	602	543
Fuel oils	549	1,521	2,154	1,956	3,041	3,357
Lubricating oil	28	129	144	291	n.a.	119
<i>Western Samoa—</i>						
Motor spirit	2,883	2,254	2,556	3,154	n.a.	n.a.
Kerosine	606	635	712	1,038	n.a.	n.a.
Fuel oil	1,297	1,251	999	956	n.a.	n.a.
Lubricating oil	21	50	90	104	n.a.	n.a.
<i>Irish Republic—</i>						
Crude petroleum	—	—	824,578	1,524,401	1,551,140	1,616,420
Aviation spirit (b)	8,552	469	(d) 2,710	(d) 466	6,803	4,899
Motor spirit	247,844	264,694	165,114	13,194	4,960	9,313
White spirit	3,591	2,916	3,368	3,381	3,379	3,315
Kerosine	109,007	122,166	112,082	{ 76,102	104,185	70,660
Aviation turbine fuel (b)	193,914	217,859	129,102	{ 55,928	74,027	106,365
Gas and diesel oils (b)	410,894	359,493	218,908	4,752	9,506	9,544
Fuel oil (b)	15,220	18,400	20,523	137,992	159,347	193,858
Lubricating oil	1,919	1,368	1,753	20,117	22,490	22,810
Paraffin wax (a)	100	376	61	2,396	2,634	2,111
Asphalt and bitumen	—	—	—	—	136	152
OTHER COUNTRIES						
<i>Austria—</i>						
Crude petroleum	—	—	18	4,416	266,994	618,378
Motor spirit	145,862	207,803	247,919	291,571	408,912	519,430
White spirit	n.a.	n.a.	6,555	6,182	6,864	6,933
Gas oil	1,471	6,649	26,667	71,464	60,303	61,431
Fuel oil	195,425	469,285	530,350	687,614	772,982	875,487
Lubricating oil, etc.	25,269	28,131	31,556	34,099	37,696	38,103
Petroleum jelly	179	244	239	212	269	280
Paraffin wax	3,840	4,005	4,662	4,503	5,065	5,630
Ozokerite and ceresin	688	649	(e) 588	(e) 602	(e) 615	(e) 339
Natural asphalt	2,158	1,277	906	826	1,089	1,695
Petroleum coke	21,734	18,316	8,095	16,107	6,786	563
Bitumen, etc.	17,591	38,633	53,286	53,879	82,926	82,807
<i>Belgium-Luxemburg</i>						
<i>E.U.—</i>						
Crude petroleum	5,388,051	6,419,055	6,610,844	6,706,495	7,714,263	8,401,677
Motor spirit, etc.	382,413	407,178	315,204	374,096	362,963	423,065
Kerosine	28,409	32,780	27,940	23,731	25,563	40,460
Gas oil	992,788	866,041	695,353	792,107	826,347	1,100,286
Fuel oil	1,350,838	1,348,026	1,465,770	1,640,173	1,760,838	2,273,488
Lubricating oil	181,488	161,791	178,291	155,437	169,413	196,278
Other heavy oils	3,782	4,596	10,998	31,298	6,816	337
Petroleum jelly	1,320	1,040	1,435	1,772	1,481	1,441
Paraffin wax	5,308	4,748	4,730	5,851	5,908	6,507
Ozokerite and ceresin (e)	409	482	401	250	335	145
Petroleum coke	55,969	63,834	34,362	18,940	19,310	34,902
Natural asphalt	4,900	3,829	2,758	2,492	2,693	2,747
Pitch	3,308	34,106	59,947	23,445	13,527	18,521

(a) Including other mineral jellies and waxes.

(d) Excess of re-exports.

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

(e) Including montan wax.

(c) Years ended June 30 of that stated.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Denmark—						
Crude petroleum	29,696	30,005	36,885	5,350	232,875	1,263,488
Aviation spirit	769,685	888,316	125,550	87,424	80,840	120,597
Motor spirit						
White spirit	12,292	11,765	13,656	14,191	14,582	20,315
Kerosine	118,068	112,274	162,696	252,393	298,157	298,983
Gas oil	630,789	745,959	808,221	892,195	1,030,020	1,138,385
Diesel oil	382,211	473,358	551,304	679,815	771,491	868,078
Fuel oil	1,790,068	1,926,311	1,830,169	2,103,286	2,182,827	2,360,095
Lubricating oil	49,292	53,215	71,047	64,177	70,133	80,244
Grease	827	924	1,348	1,134	942	1,311
Petroleum jelly	305	353	485	463	463	500
Ozokerite, etc.	730	737	1,028	884	863	1,351
Paraffin wax	3,542	4,756	4,831	5,036	5,735	5,890
Natural asphalt	838	734	1,692	1,358	959	1,752
Other asphalt	48,733	62,169	67,685	69,249	100,884	111,639
Faeroe Islands—						
Motor spirit	1,684	1,887	2,002	1,347	2,402	2,058
Kerosine	1,148	2,362	2,440	733	2,751	2,687
Fuel oils	24,390	31,226	25,338	14,383	28,354	31,485
Lubricating oil, etc.	409	434	415	468	317	476
Finland—						
Crude petroleum	212,575	870,556	1,072,737	1,118,972	1,361,407	1,488,311
Motor spirit	340,594	112,513	21,434	44,914	32,301	16,506
White spirit	3,293	3,660	3,650	3,585	4,733	6,145
Kerosine	17,949	20,842	17,415	29,954	26,923	24,392
do. Power	37,357	15,948	5,561	1,852	6	1
Fuel oil	1,208,295	876,412	720,281	1,418,626	1,459,568	1,863,309
Lubricating oil	28,281	20,740	26,493	36,069	45,170	48,796
Petroleum jelly	184	234	405	381	369	511
Paraffin wax	1,851	1,856	3,071	4,184	4,862	5,065
Asphalt, etc.	32,951	31,396	26,654	8,219	17,431	16,744
France—						
Crude petroleum	23,703,814	27,974,654	28,709,907	30,531,645	34,463,365	36,573,573
Aviation spirit	81,345	123,724	134,745	131,706	134,094	112,344
Motor spirit	472,170	520,106	475,812	679,668	572,603	636,937
Kerosine	36,279	13,708	3,659	5,836	8,154	3,040
Lubricating oil	32,767	13,439	14,833	14,717	10,309	18,453
Fuel oil	880,551	486,411	921,860	1,229,110	1,108,191	1,588,227
Gas oil	748,269	332,551	230,421	247,630	221,720	212,002
Petroleum coke	70,732	68,961	60,075	92,099	103,885	130,187
Paraffin wax	5,409	2,077	2,492	2,911	3,834	4,346
Ozokerite and ceresin	5,809	4,634	4,329	5,097	7,266	8,676
Petroleum jelly	936	691	534	755	686	671
Natural asphalt and bitumen	3,588	3,642	2,267	1,635	1,925	2,066
Bitumen	568	314	136	629	727	305
Germany (Federal)—						
Crude petroleum	8,029,544	10,638,066	16,543,067	22,692,143	28,830,783	32,677,499
Aviation spirit (a)	420,586	424,263	416,891	158,455	154,515	164,174
Motor spirit						
White spirit	33,717	114,937	227,896	414,173	359,996	398,946
Kerosine						
Aviation turbine fuel (a)	1,049,791	801,774	846,537	101,974	74,128	13,015
Gas and diesel oil (a)						
Fuel oil (a)	3,842,671	4,766,253	3,587,682	4,375,587	4,635,838	9,237,703
Lubricating oil, etc.	128,955	107,138	143,111	149,286	170,688	215,742
Petroleum jelly	1,664	1,446	1,508	1,839	1,691	1,936
Paraffin wax	5,084	10,272	13,047	12,827	14,237	24,244
Ozokerite, etc.	240	500	982	725	163	27
Natural asphalt and bitumen	7,533	9,179	10,613	10,946	11,625	14,079
Bitumen	60,829	89,511	148,460	234,816	347,114	459,162
Petroleum coke	n.a.	n.a.	n.a.	63,728	98,658	120,920

(a) Figures for 1957-1959 include imports for bunkering foreign ships or aircraft.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (East)—						
Crude petroleum ..	981,000	1,109,000	1,534,000	1,910,000	2,234,000	2,550,000
Greece—						
Crude petroleum ..	—	95,452	1,539,442	1,631,356	1,576,603	1,437,323
Aviation spirit ..	73,144	111,601	17,460	382	11,981	13,587
Motor spirit ..	160,663	161,725	19,936	13,381	1,678	13,029
White spirit ..	307	425	501	806	869	1,163
Kerosine ..	103,568	116,869	16,411	3,073	94	2,868
Fuel oil and diesel oil ..	1,236,089	1,293,250	389,937	605,065	747,423	1,094,241
Lubricating oil, etc. ..	16,881	18,297	20,626	19,952	22,054	23,358
Petroleum jelly ..	108	124	99	87	90	97
Paraffin wax ..	204	239	175	195	246	382
Asphalt and bitumen ..	17,471	21,884	4,688	2,132	680	1,628
Hungary—						
Crude petroleum ..	1,016,000	1,125,493	1,236,387	1,432,558	1,389,327	1,515,703
Motor spirit ..	27,901	9,894	4,907	10,903	56,137	61,602
Kerosine ..	435	—	—	—	—	—
Gas oil ..	40,648	—	3,937	19,716	89,243	118,676
Fuel oil ..	144,167	56,158	58,295	68,720	81,897	65,772
Iceland—						
Aviation spirit ..	14,623	12,299	13,175	12,557	10,848	12,118
Motor spirit ..	47,675	40,225	45,882	42,636	38,341	43,910
White spirit ..	186	549	337	464	466	470
Kerosine ..	1,559	3,602	18,083	8,462	7,705	1,488
Gas oil and fuel oil ..	242,181	276,927	308,936	308,359	278,895	306,887
Lubricating oil ..	3,813	4,539	4,044	4,406	4,074	4,794
Greases ..	114	174	140	145	137	184
Paraffin wax ..	58	62	143	132	145	181
Petroleum jelly ..	17	5	2	9	14	4
Asphalt ..	547	352	560	1,215	832	1,527
Italy—						
Crude petroleum ..	19,595,986	22,207,338	24,402,201	28,336,147	32,803,729	39,328,656
Aviation and motor spirits ..	26,242	37,885	31,701	88,783	114,214	122,124
Kerosine ..	59	1,396	225	206	741	1,575
Gas oil ..	37,643	30,244	3,612	1,175	7,379	5,309
Fuel oil ..	674,351	235,303	598,060	1,470,520	1,964,600	2,821,695
Lubricating oil ..	46,322	40,498	44,277	78,552	108,141	120,030
Petroleum jelly ..	1,152	1,320	1,305	1,573	1,716	2,053
Paraffin wax ..	10,586	15,249	14,511	16,689	20,985	25,102
Pitch ..	177	181	282	5,999	180	690
Petroleum coke ..	65,714	41,712	54,430	100,440	132,035	151,873
Ozokerite and ceresin ..	307	128	601	485	666	328
Natural asphalt and bitumen ..	1,942	1,539	1,772	1,919	2,814	2,433
Netherlands—						
Crude petroleum ..	13,324,031	13,839,859	12,477,736	16,227,967	18,980,919	19,613,218
Motor spirit, etc. ..	191,110	151,924	118,304	128,812	113,062	109,550
Kerosine ..	156,973	199,433	193,684	180,412	209,526	235,305
Gas oil ..	1,033,460	894,431	1,108,850	1,286,182	1,014,940	989,196
Fuel oil ..	1,359,393	2,892,833	3,453,114	3,329,216	3,578,248	3,565,012
Lubricating oil ..	164,784	158,649	160,690	154,204	151,793	144,166
Petroleum jelly ..	3,515	2,787	2,855	2,711	2,291	2,559
Paraffin wax ..	18,424	22,601	28,301	29,839	23,588	17,966
Ozokerite and ceresin (a) ..	168	83	167	178	155	156
Pitch ..	14,310	11,919	20,184	24,246	36,089	60,569
Petroleum coke ..	9,353	14,767	11,662	16,785	10,949	13,619
Natural asphalt ..	1,276	1,147	985	1,303	1,413	1,738
Norway—						
Crude petroleum ..	113,661	83,120	105,201	216,795	1,711,949	2,317,740
Aviation spirit ..	24,398	23,016	29,283	22,593	24,964	24,600
Motor spirit ..	326,496	354,193	377,118	429,113	305,700	432,831

(a) Including montan wax.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Norway (cont.)—						
White spirit	13,697	12,972	13,943	14,622	17,436	18,923
Kerosine	65,980	83,029	75,726	86,508	80,929	89,198
Aviation turbine fuel ..	76,856	80,548	78,718	97,134	104,375	70,208
Diesel oil	399,102	395,623	428,071	332,888	321,783	269,015
Gas oil	523,540	675,052	710,308	877,440	563,515	715,108
Fuel oil	1,353,605	1,263,730	1,314,221	1,498,596	1,222,330	1,119,421
Lubricating oil	34,029	30,725	34,712	35,913	36,838	37,442
Paraffin wax	2,042	1,854	2,034	2,306	2,684	2,541
Greases	(d) 2,067	(d) 1,828	1,358	1,669	1,788	1,633
Pitch	17,902	23,292	6,483	10,121	17,325	11,064
Petroleum coke	61,676	68,024	85,856	92,878	96,349	124,572
Asphalt, etc.	15,354	34,722	18,219	15,947	13,645	14,769
Poland—						
Crude petroleum	620,000	590,300	681,600	702,600	727,900	1,025,000
Motor spirit	n.a.	655,700	739,700	839,700	1,029,900	n.a.
Kerosine	n.a.	54,200	52,300	52,300	45,500	n.a.
Fuel oils	n.a.	501,800	628,700	750,300	972,600	n.a.
Lubricating oil	n.a.	6,546	27,988	52,913	66,506	n.a.
Paraffin wax	n.a.	9,373	13,538	10,488	14,981	n.a.
Asphalt	n.a.	15,418	14,814	31,887	85,464	n.a.
Petroleum coke	n.a.	7,984	4,267	15,446	22,674	n.a.
Portugal—						
Crude petroleum	1,090,826	1,133,554	1,242,219	1,280,678	1,285,538	1,312,884
Motor spirit	30,656	12,839	12,599	18,882	22,212	23,285
do. (b)	3,370	5,051	4,806	n.a.	n.a.	n.a.
Kerosine	54,658	50,261	38,737	32,520	24,137	39,699
Aviation turbine fuel ..	30	118	49	—	—	5
Gas oil and diesel oil ..	130,370	141,455	145,366	295,511	296,801	293,974
Fuel oil	144,865	137,653	115,522	210,332	247,877	275,512
Gas, diesel, fuel oils (b)	127,979	164,340	203,717	n.a.	n.a.	n.a.
Lubricating oil	25,591	24,188	27,284	30,467	34,184	32,363
do. (b)	1,800	2,119	2,547	n.a.	n.a.	n.a.
Petroleum jelly	156	99	130	113	142	130
Paraffin wax	2,596	2,137	2,245	2,889	3,512	2,318
Ozokerite and ceresin ..	125	98	99	106	95	66
Bitumen	292	91	118	(a) 29,712	(a) 37,046	44,508
Natural asphalt	12,564	13,607	15,429	11,561	7,097	9,569
Spain—						
Crude petroleum	3,226,419	3,831,548	4,020,534	3,941,274	4,653,518	5,425,060
Motor spirit	248,237	213,312	204,436	(c) 56,087	(c) 80,149	(c) 83,164
Kerosine	69,913	32,472	53,713	(c) 34,092	(c) 17,315	(c) 28,741
Diesel oil	167,810	97,958	120,720	(c) 143,599	(c) 115,769	(c) 45,351
Lubricating oil	54,974	80,912	84,920	(c) 32,097	(c) 11,082	(c) 39,333
Fuel oil	518,130	410,050	277,360	(c) 807	(c) 9,818	(c) 9,210
Petroleum jelly	402	893	295	(c) 298	(c) 732	(c) 931
Paraffin wax	584	2,247	568	(c) 1,625	(c) 1,535	(c) 735
Asphalt	124,688	68,961	90,327	(c) 13,846	(c) 713	(c) 536
Sweden—						
Crude petroleum	1,962,277	2,129,415	2,335,773	2,604,355	2,551,145	2,421,148
Motor spirit, etc.	1,190,000	1,258,662	1,251,949	1,505,209	1,540,238	1,832,333
White spirit	38,001	46,001	43,832	56,021	47,305	50,000
Kerosine	259,900	306,791	307,627	317,021	289,111	318,000
Fuel oil and gas oil ..	5,696,037	6,590,677	6,651,825	8,406,037	8,590,473	9,622,528
Lubricating oil and grease	96,152	92,237	103,389	117,070	114,944	130,866
Petroleum jelly	662	671	650	764	647	810
Paraffin wax	6,232	5,827	6,079	7,118	7,179	7,846
Ozokerite, ceresin, etc.	1,936	1,869	1,233	1,137	1,421	1,521
Asphalt	3,261	3,957	1,337	882	507	1,067
Pitch	8,665	7,227	6,435	7,282	7,018	8,424
Petroleum coke	8,868	6,893	6,188	4,698	12,849	9,947

(a) Including petroleum coke.

(b) Imported for bunkering of national ships.

(c) Excluding imports from Canary Islands.

(d) Including petroleum jelly.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Switzerland—						
Motor spirit	645,842	745,885	834,327	974,070	1,132,780	1,032,682
White spirit	9,870	10,531	10,090	10,841	10,776	8,861
Kerosine	60,208	56,448	63,167	15,425	15,424	16,425
Gas and diesel oils ..	173,417	195,468	221,536	369,415	448,601	298,718
Fuel oil	1,618,192	1,897,803	1,885,866	2,318,463	2,398,116	3,302,971
Lubricating oil and grease	53,453	46,091	51,739	57,858	66,755	68,933
Petroleum jelly	1,403	759	1,086	702	805	830
Paraffin wax and ceresin ..	4,391	3,310	4,379	4,998	5,149	5,660
Asphalt and bitumen ..	553	962	1,172	96,174	128,279	147,039
Petroleum coke	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	14,124	27,052	35,954
U.S.S.R.—						
Crude petroleum	1,310,400	1,061,500	1,066,000	1,147,400	873,600	488,000
Motor spirit	1,991,000	2,065,300	2,196,700	2,139,900	1,752,000	1,556,300
Kerosine	289,000	347,200	352,100	300,400	268,500	240,200
Diesel oil	293,900	442,100	352,900	336,700	261,800	223,100
Fuel oil	56,200	44,300	50,300	47,900	47,000	42,900
Lubricating oil and grease	86,100	97,300	126,500	120,800	143,700	115,300
Paraffin wax	29,800	26,600	28,900	32,200	38,900	33,300
Bitumen	138,300	138,500	175,500	199,400	177,600	61,600
Yugoslavia—						
Crude petroleum	638,804	619,135	609,314	428,107	282,657	735,070
Aviation spirit	17,594	23,676	30,508	23,625	10,370	16,564
Motor spirit	258	609	829	707	103	—
Kerosine	—	—	—	6,831	9,402	4,632
Aviation turbine fuel ..	14	—	8	5	—	—
Fuel oils	—	205	58,576	126,214	123,460	229,432
Lubricating oil	13,481	13,976	16,073	17,996	23,381	19,761
Greases	203	202	245	321	317	194
Paraffin wax	499	523	939	1,646	1,786	2,682
Petroleum jelly	300	278	748	524	444	571
Ozokerite and ceresin ..	70	112	134	184	160	224
Petroleum coke	2,972	7,342	6,698	2,046	15,698	13,653
Pitch	9	4,910	5,320	768	5,022	1,820
Algeria—						
Crude petroleum	—	—	—	11,116	<i>n.a.</i>	<i>n.a.</i>
Aviation spirit	64,404	16,528	16,272	5,734	<i>n.a.</i>	<i>n.a.</i>
Motor spirit	409,582	266,761	290,883	311,926	<i>n.a.</i>	<i>n.a.</i>
White spirit	1,870	1,902	2,315	3,307	<i>n.a.</i>	<i>n.a.</i>
Kerosine	90,580	82,117	87,588	93,976	<i>n.a.</i>	<i>n.a.</i>
Gas oil	270,422	306,718	355,940	373,813	<i>n.a.</i>	<i>n.a.</i>
Fuel oil and diesel oil ..	261,726	296,897	432,862	553,828	<i>n.a.</i>	<i>n.a.</i>
Lubricating oil	32,038	27,378	32,719	29,046	<i>n.a.</i>	<i>n.a.</i>
Bitumen, etc.	59,324	67,501	81,862	88,048	<i>n.a.</i>	<i>n.a.</i>
Paraffin wax	422	601	580	607	<i>n.a.</i>	<i>n.a.</i>
Petroleum jelly	39	12	52	—	<i>n.a.</i>	<i>n.a.</i>
Ozokerite and ceresin ..	12	17	11	12	<i>n.a.</i>	<i>n.a.</i>
Natural asphalt, etc. ..	19	37	4,598	1,215	<i>n.a.</i>	<i>n.a.</i>
Mastic asphalt	4,146	3,968	3,495	4,877	<i>n.a.</i>	<i>n.a.</i>
Angola—						
Crude petroleum	—	—	11,628	116,192	119,691	—
Motor spirit	51,707	29,387	28,162	23,252	17,413	9,246
Kerosine	8,626	9,732	8,867	10,046	10,000	9,579
Gas oil and fuel oil ..	85,397	76,054	78,702	58,626	49,044	40,777
Lubricating oil	6,985	6,744	6,458	7,510	7,360	7,818
Paraffin wax	16	13	23	19	59	24
Petroleum jelly	32	25	20	35	29	27
Cameroun—						
Motor spirit, etc.	49,973	53,300	55,405	53,446	50,601	50,684
Kerosine	14,468	16,097	15,191	16,925	26,062	24,327
Gas and fuel oil	22,447	25,766	25,036	23,115	27,654	31,584
Lubricating oil	2,969	3,694	4,303	2,695	3,596	3,939

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES (cont.)						
Canary Islands—						
Crude petroleum ..	2,184,795	2,763,827	3,080,585	2,447,564	2,658,809	4,100,273
Motor spirit ..	10,441	9,903	10,018	10,470	14,860	37,897
Diesel (b) ..	227,617	38,339	97,542	27,155	41,762	18,361
Fuel oil (b) ..	222,854	3,996	—	9,021	—	22,637
Cape Verde Islands—						
Motor spirit ..	361	515	455	562	551	783
Kerosine ..	711	1,155	1,268	1,472	1,750	1,610
Fuel oil (b) ..	550,484	456,329	476,416	328,451	n.a.	n.a.
Ceuta—						
Motor spirit ..	21,296	8,849	7,859	n.a.	n.a.	n.a.
Kerosine ..	1,966	457	3,112	n.a.	n.a.	n.a.
Diesel (b) ..	279,256	136,313	136,662	(a) 125,279	(a) 111,055	(a) 130,299
Fuel oil (b) ..	447,080	372,735	384,079	(a) 268,213	(a) 267,007	(a) 303,399
Lubricating oil ..	2,124	2,188	2,797	(a) 3,487	(a) 3,811	(a) 367
Congo Republic—						
Motor spirit, etc. ..	218,626	212,832	187,279	n.a.	n.a.	n.a.
White spirit ..	666	569	373	n.a.	n.a.	n.a.
Kerosine ..	32,766	38,266	41,772	n.a.	n.a.	n.a.
Fuel oil, etc. ..	171,553	189,917	183,800	n.a.	n.a.	n.a.
Lubricating oil and greases ..						
	19,985	13,603	16,803	n.a.	n.a.	n.a.
Petroleum jelly ..	94	64	69	n.a.	n.a.	n.a.
Paraffin wax ..	65	104	118	n.a.	n.a.	n.a.
Asphalt ..	1,111	995	1,664	n.a.	n.a.	n.a.
Dahomey—						
Aviation spirit ..	(c)	120	197	660	373	832
Motor spirit ..		18,785	15,299	20,728	14,140	13,335
Kerosine ..		12,426	10,835	15,250	12,855	12,726
Gas oil ..		8,877	7,241	14,335	12,409	14,795
Fuel oils ..		99	106	550	837	728
Lubricating oil ..		1,294	1,307	1,060	807	1,146
Egypt—						
Crude petroleum ..	1,127,947	1,569,742	1,514,893	2,044,509	2,741,198	3,650,185
Motor spirit ..	34,703	16,748	20,769	12,941	9,821	5,529
White spirit ..	761	2,116	43	—	10	29
Kerosine ..	259,259	459,822	369,084	415,291	330,537	312,931
Fuel oil ..	361,303	259,765	426,646	378,437	100,229	81,696
Gas oil ..	73,619	84,333	110,200	183,625	149,218	156,576
Diesel oil ..	44,963	51,694	42,659	35,798	15,156	17,687
Lubricating oil ..	37,492	53,628	47,125	39,935	52,201	34,880
Petroleum jelly ..	461	889	568	200	324	169
Paraffin wax ..	1,844	2,048	1,102	1,992	1,104	151
Ozokerite and ceresin ..	95	75	212	112	100	
Asphalt and bitumen ..	76	830	819	602	23	2,041
Equatorial African Community—						
Aviation spirit ..	14,102	24,357	24,346	29,008	26,411	23,616
Motor spirit ..	46,712	43,522	47,234	49,538	50,181	56,702
Kerosine ..	11,727	12,930	15,180	16,283	14,130	12,158
Gas oil ..	36,999	49,757	53,499	72,698	71,450	73,760
Fuel oil ..	9,918	7,812	8,671	4,540	5,789	6,321
Lubricating oil, etc. ..	6,058	6,437	5,998	6,616	7,502	6,691
Ethiopia (d)—						
Aviation spirit ..	n.a.	3,799	7,372	6,473	9,346	n.a.
Motor spirit ..	62,115	72,604	85,584	75,495	79,534	n.a.
Kerosine ..	4,108	4,064	3,572	3,903	4,017	n.a.
Gas and fuel oils ..	22,573	15,937	14,273	22,481	28,644	n.a.
Lubricating oil and grease ..	5,689	5,194	7,515	5,686	5,396	n.a.

(a) Excluding imports from Spain and Canary Islands.

(c) See under French West Africa.

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

(d) Years ended September 10.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
French Somaliland—						
Motor spirit	2,397	2,232	2,290	2,176	2,645	3,015
Kerosine	794	676	658	689	777	868
Fuel oil, etc.	3,418	4,591	3,731	4,682	5,013	6,055
Lubricating oil	268	261	261	295	400	467
French West Africa—						
Aviation spirit	15,440	(b)	(b)	(b)	(b)	(b)
Motor spirit	185,569					
Kerosine	71,248					
Gas oil	74,014					
Fuel oils	90,430					
Lubricating oil	13,051					
Ivory Coast—						
Aviation spirit	(c)	518	8,194	3,745	859	654
Motor spirit		83,950	86,943	59,426	90,757	88,203
Kerosine		28,824	33,570	26,047	28,396	28,171
Gas oil		24,825	29,040	29,573	35,251	42,730
Fuel oils		19,753	23,040	11,998	20,808	27,311
Lubricating oil		5,080	6,195	5,907	5,731	6,766
Liberia—						
Motor spirit	18,560	20,873	17,149	19,996	24,993	n.a.
Kerosine	4,306	2,600	12,734	6,394	4,139	n.a.
Diesel oil, etc.	6,590	22,810	17,767	27,130	26,884	n.a.
Lubricating oil	1,478	1,344	1,040	1,461	2,328	n.a.
Libya—						
Motor spirit	n.a.	35,275	42,059	61,523	52,120	65,623
Kerosine, etc.	n.a.	9,105	11,895	15,240	18,151	22,807
Gas oil and diesel oil	n.a.	25,344	40,000	66,543	88,822	88,716
Fuel oil	n.a.	3,734	9,536	43,658	6,731	7,280
Lubricating oil, etc.	n.a.	3,184	4,096	6,890	6,047	6,946
Malagasy Republic—						
Aviation spirit	8,269	8,044	5,245	5,219	5,611	4,492
Motor spirit	47,141	50,114	48,226	51,522	51,533	54,354
Kerosine	12,768	16,730	15,299	17,236	16,972	17,710
Gas oil	33,575	39,415	43,102	41,495	38,832	46,105
Fuel oils	203	79	806	656	1,093	1,207
Lubricating oil	5,436	4,764	5,009	5,575	3,985	5,754
Road oil, etc.	12,485	3,639	3,927	4,104	5,289	3,520
Paraffin wax	178	80	25	22	117	761
Petroleum jelly	10	14	12	17	17	21
Asphalt and bitumen	296	37	69	107	34	18
Melilla—						
Motor spirit	6,833	3,904	3,790	n.a.	n.a.	n.a.
Kerosine	3,111	1,153	1,216	n.a.	n.a.	n.a.
Diesel oil	16,547	9,400	9,472	n.a.	n.a.	n.a.
Fuel oil	26,058	5,119	5,127	n.a.	n.a.	n.a.
Lubricating oil	1,700	423	809	n.a.	n.a.	n.a.
Paraffin wax	41	52	82	n.a.	n.a.	n.a.
Morocco—						
Crude petroleum	26,488	25,542	74,014	88,228	127,134	119,293
Aviation spirit	(a) 16,301	16,238	12,069	10,488	13,095	11,331
Motor spirit	(a) 202,974	197,922	181,905	171,535	152,506	95,003
White spirit	(a) 1,693	1,156	1,648	1,581	1,435	1,422
Kerosine	(a) 36,742	38,094	41,222	46,618	45,724	28,057
Gas oil	(a) 107,975	124,433	131,870	165,749	199,121	70,981
Fuel oil	(a) 157,443	171,789	178,981	209,203	207,343	81,777
Lubricating oil, etc.	(a) 12,038	16,024	14,761	18,403	19,052	17,072
Paraffin wax	(a) 4,321	4,455	5,637	5,267	5,325	8,390
Asphalt, bitumen, etc.	(a) 23,404	17,994	19,614	23,428	24,444	25,566

(a) Morocco (Southern) only.

(b) See under Dahomey, Ivory Coast, Niger, Senegal and Upper Volta.

(c) See under French West Africa.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Mozambique—						
Motor spirit	32,021	32,335	34,929	39,349	36,760	18,425
Kerosine	17,371	18,429	19,104	19,131	20,357	16,523
Fuel oil	54,131	66,138	66,720	81,933	75,461	31,059
Lubricating oil	5,819	6,028	6,656	7,175	7,093	6,130
Paraffin wax	47	40	38	69	80	n.a.
Petroleum jelly	24	31	27	56	38	n.a.
Asphalt and bitumen (d)	5,242	8,939	6,025	4,716	5,269	n.a.
Niger—						
Aviation spirit	(c)	2,129	673	n.a.	975	2,987
Motor spirit		3,553	3,291	n.a.	8,964	4,954
Kerosine		1,115	974	n.a.	2,361	3,001
Gas oil		1,125	1,460	n.a.	4,457	5,008
Fuel oils		30	40	n.a.	335	1,767
Lubricating oil		433	89	n.a.	334	983
Reunion—						
Motor spirit, etc.	11,481	13,900	13,561	15,139	16,900	18,934
Kerosine	2,158	1,748	2,205	2,243	2,538	2,683
Fuel oil, etc.	5,264	3,751	7,098	6,577	7,895	6,469
Lubricating oil	771	735	743	1,092	1,033	1,209
S. Tome and Principe—						
Motor spirit	735	1,195	1,101	1,007	n.a.	n.a.
Kerosine	589	365	432	530	n.a.	n.a.
Fuel oil	599	959	681	831	n.a.	n.a.
Senegal—						
Aviation spirit	(c)	15,307	10,654	8,779	5,878	3,928
Motor spirit		75,143	77,554	72,966	66,797	71,821
Kerosine		15,128	16,172	13,668	11,683	12,324
Gas oil		28,447	35,578	15,845	17,304	20,209
Fuel oils		69,266	95,372	88,420	116,451	140,973
Lubricating oil		9,886	5,764	7,878	3,547	4,231
Somali Republic (b)—						
Aviation and motor spirit	3,628	3,908	5,405	4,989	n.a.	n.a.
Kerosine	598	738	772	849	n.a.	n.a.
Gas oil	1,765	1,587	2,110	2,263	n.a.	n.a.
Lubricating oil	170	140	59	204	n.a.	n.a.
South Africa—						
Crude petroleum	1,138,813	1,381,367	1,375,984	1,368,412	1,583,306	1,726,547
Motor spirit (a)	1,029,563	1,128,765	1,110,949	1,124,744	1,173,318	1,191,633
Other spirit	16,097	19,102	15,494	14,203	16,449	17,977
White spirit	27,369	31,610	21,123	29,578	30,355	29,803
Kerosine	459,750	479,671	393,505	403,706	391,749	370,520
Gas oil (a)	462,885	486,268	519,406	532,016	593,715	621,562
Diesel oil (a)	165,238	64,877	33,570	33,156	4,840	23,535
Fuel oil (a)	716,511	151,497	197,287	164,933	208,296	228,396
Lubricating oil	127,350	96,017	104,701	104,232	119,008	143,376
Transformer oil	4,815	5,374	5,805	3,769	5,192	4,069
Road oil	895	382	2,836	2,144	2,261	346
Other oils	3,328	3,027	3,509	17,832	4,004	21,990
Paraffin wax	20,847	15,051	15,296	15,949	9,769	11,873
Asphalt and bitumen	37,539	37,116	32,997	39,169	33,633	31,014
Petroleum jelly	3,122	2,943	2,981	4,537	2,645	2,976
Sudan—						
Aviation spirit (a)	29,289	22,634	19,314	15,684	12,789	10,169
Motor spirit	67,549	72,874	70,625	71,176	74,105	70,266
Kerosine	28,592	33,332	40,001	52,069	51,684	60,014
Gas oil	47,617	64,115	63,292	75,324	99,074	111,677
Diesel oil	25,139	20,384	21,252	27,862	21,786	23,767
Fuel oil	156,582	164,270	194,956	189,417	176,403	195,998
Lubricating oil, etc.	8,523	9,950	6,585	7,722	11,339	12,085
Asphalt and bitumen	5,797	6,036	2,755	3,162	6,799	8,631

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

(b) Former British Protectorate only.

(c) See under French West Africa.

(d) Including coal tar and pitch.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Togo—						
Motor spirit	5,251	5,784	6,851	8,231	8,008	8,070
Kerosine	4,762	4,695	5,559	6,187	6,622	7,732
Fuel oil	5,640	4,849	5,635	8,314	14,450	13,421
Lubricating oil	692	610	448	623	1,020	526
Tunisia—						
Aviation spirit	571	297	77,001	74,463	68,841	73,639
Motor spirit	70,131	72,970				
Kerosine	34,502	37,074	41,266	43,337	45,517	48,130
Fuel oil	178,229	174,257	200,334	221,418	233,761	236,571
Gas oil	77,621	83,938	86,916	99,720	109,910	119,112
Lubricating oil	6,397	7,284	9,601	8,899	13,500	8,869
Petroleum jelly	—	10	25	51	12	19
Paraffin wax	62	111	60	68	83	58
Upper Volta—						
Aviation spirit	(a)	765	970	1,113	1,539	1,009
Motor spirit		13	671	7,266	13,111	10,774
Kerosine		—	146	3,370	5,664	4,918
Gas oil		—	346	2,716	5,976	5,345
Fuel oils		—	62	578	3,093	5,452
Lubricating oil		—	9	51	861	1,365
Costa Rica—						
Motor spirit	51,854	49,111	47,776	72,261	53,816	57,013
Kerosine	7,888	7,778	7,758	13,471	9,901	13,054
Diesel oil, etc.	54,805	65,192	56,189	74,094	65,124	91,641
Fuel oil	31,636	20,891	9,276	20,239	27,049	12,308
Lubricating oil	3,868	5,540	4,213	4,788	5,372	7,676
Grease	343	291	227	296	244	337
Petroleum jelly	91	80	125	99	129	117
Paraffin wax	1,260	1,302	1,337	1,417	1,328	1,179
Asphalt	7,454	4,091	3,513	4,735	4,221	4,828
Cuba—						
Crude petroleum	915,504	2,030,833	1,682,722	n.a.	n.a.	n.a.
Motor spirit	254,153	122,129	54,947	n.a.	n.a.	n.a.
Kerosine	2,250	9,073	620	n.a.	n.a.	n.a.
Fuel oil	1,806,195	1,727,157	1,196,866	n.a.	n.a.	n.a.
Gas oil	39,049	21,144				
Lubricating oil	37,909	48,162	91,502	n.a.	n.a.	n.a.
Other oils	80,797	28,723	n.a.	n.a.	n.a.	n.a.
Petroleum jelly	540	764	296	n.a.	n.a.	n.a.
Paraffin wax	4,518	3,959	12,838	n.a.	n.a.	n.a.
Asphalt rock	15	153	—	n.a.	n.a.	n.a.
Other asphalt and bitumen	152	488	231	n.a.	n.a.	n.a.
Petroleum coke	4,990	188	6,522	n.a.	n.a.	n.a.
Dominican Republic—						
Aviation spirit	11,044	14,652	9,268	5,500	3,889	n.a.
Motor spirit	79,368	82,464	80,293	78,759	72,402	n.a.
Kerosine	9,035	12,373	11,776	14,562	15,366	n.a.
Diesel oil	63,579	71,179	51,891	60,851	74,204	n.a.
Fuel oil	134,417	127,580	177,633	147,975	126,152	n.a.
Lubricating oil, etc.	10,711	7,841	7,204	7,736	7,038	n.a.
Paraffin wax	810	959	1,059	1,092	929	n.a.
Asphalt	19,600	2,451	15,875	14,878	9,005	n.a.
French West Indies—						
Guadeloupe—						
Motor spirit, etc.	19,540	17,869	22,587	22,248	26,064	25,797
Kerosine	7,829	8,527	10,004	10,547	15,679	17,634
Gas and fuel oil	7,953	8,945	12,776	14,375	14,305	15,993
Lubricating oil	2,002	1,501	2,342	1,916	2,620	2,507

(a) See under French West Africa.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
French West Indies						
<i>(cont.)—</i>						
Martinique—						
Motor spirit, etc. ..	20,981	16,407	19,721	22,623	22,400	21,321
Kerosine ..	8,314	9,455	10,463	9,051	11,316	9,013
Gas and fuel oil ..	21,603	17,874	20,348	20,570	22,221	23,815
Lubricating oil ..	2,644	1,495	2,177	2,265	2,329	2,508
Greenland—						
Motor spirit ..	1,345	1,473	2,070	2,107	3,307	2,824
Kerosine ..	1,361	1,039	2,887	1,103	3,097	2,293
Fuel oil ..	24,309	34,813	40,249	29,722	50,592	45,226
Lubricating oil ..	362	353	508	569	343	470
Guatemala—						
Crude petroleum, etc.	154,166	156,058	180,979	208,476	209,557	220,532
Aviation spirit ..	5,844	5,331	117,182	121,529	122,374	103,000
Motor spirit ..	108,580	114,713				
Kerosine ..	20,646	22,404	21,879	32,689	42,941	50,092
Diesel oil ..	49,836	67,201	85,400	82,191	87,807	84,210
Fuel oil ..	2,509	4,144				
Lubricating oil ..	5,622	6,858	5,642	6,000	5,417	6,369
Grease ..	515	657	483	508	520	523
Asphalt ..	11,880	17,377	19,000	15,000	<i>n.a.</i>	<i>n.a.</i>
Paraffin wax, etc.	3,561	3,850	4,000	6,000	5,428	5,664
Honduras—						
Crude petroleum ..	39,643	65,596	69,712	71,413	102,582	85,146
Motor spirit ..	39,311	41,953	38,782	37,576	40,291	43,587
Kerosine ..	4,908	6,436	7,353	10,666	10,623	12,387
Gas, diesel and fuel oils	101,579	72,897	71,848	71,239	75,227	72,883
Lubricating oil ..	2,729	5,317	5,914	5,492	5,828	4,892
Greases ..	304	341	374	565	513	465
Mexico—						
Crude petroleum ..	191,369	101,853	10,468	—	26	2
Aviation spirit ..	48,789	53,414	52,797	50,800	6,353	6,528
Motor spirit ..	581,306	241,303	103,349	110,753	42,651	10,343
Kerosine ..	288,210	76,056	4,239	743	653	420
Gas oil ..	294,169	137,623	21,843	3,543	33,008	282
Fuel oil ..	417,951	418,994	258,652	89,525	82,802	91,288
Lubricating oil ..	19,272	11,818	11,149	12,789	21,823	14,768
Grease ..	4,576	4,964	5,940	3,588	2,945	2,443
Paraffin wax ..	19,949	12,689	17,408	21,249	20,353	1,822
Petroleum jelly ..	1,059	896	1,396	1,691	1,611	1,411
Asphalt ..	1,304	1,552	4,589	2,087	1,039	468
Asphalt rock ..	1,636	1,657	2,729	844	123	173
Natural gas (<i>million cu. ft.</i>)	14,230	9,324	10,327	9,877	8,900	9,620
Netherlands Antilles—						
Crude petroleum ..	40,702,334	36,027,260	38,180,175	38,151,901	39,327,000	39,155,000
Aviation spirit ..	295,154	257,814	82,650	286,885	463,000	425,000
Motor spirit ..	1,151,164	1,484,502	754,098	511,137	810,000	444,000
Kerosine ..	125,759	65,183	42,173	28,372	131,000	82,000
Fuel oil ..	853,920	2,891,177	1,840,249	1,032,264	1,274,000	3,358,000
Diesel oil ..	135,464	150,144	239,613	17,647	74,000	21,000
Gas oil ..	634,137	696,733	446,942	234,476	248,000	266,000
Lubricating oil, etc.	2,746	2,651	3,368	28,305	92,000	17,000
Asphalt ..	1,394	—	—	1,182	—	—
Nicaragua—						
Aviation spirit ..	52,562	56,479	56,974	60,379	63,110	64,355
Motor spirit ..						
Kerosine ..	15,460	17,686	16,077	16,423	17,393	18,145
Fuel oil ..	63,194	116,277	81,284	93,595	90,799	103,709
Lubricating oil ..	3,291	4,052	3,708	3,702	4,492	4,109
Paraffin wax ..	723	915	692	888	809	853
Petroleum jelly ..						
Natural asphalt ..	1,163	—	—	9	—	—

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962	
OTHER COUNTRIES							
<i>(cont.)</i>							
Panama Republic—							
Aviation spirit	89,909	24,494	24,322	r 47,585	47,714	n.a.	
Motor spirit		78,228	78,132	81,018	88,013	n.a.	
Kerosine		23,740	27,411	28,399	29,703	31,076	n.a.
Diesel oil		46,348	50,489	64,476	47,925	64,211	n.a.
Fuel oil		91,250	119,980	123,876	133,778	146,244	n.a.
Lubricating oil		3,324	3,652	4,064	4,596	4,757	n.a.
Grease		270	336	317	301	240	n.a.
Paraffin wax etc.	126	235	227	329	364	n.a.	
St. Pierre and Miquelon—							
Motor spirit	499	429	437	552	521	504	
Gas oil and fuel oil	9,341	9,973	8,307	10,666	21,225	12,743	
Salvador—							
Motor spirit	70,789	75,256	73,530	72,754	63,624	64,146	
Kerosine	22,326	25,761	29,040	26,774	28,564	32,523	
Gas oil and diesel oil	19,794	21,482	24,220	31,580	38,536	53,254	
Fuel oil	61,619	51,742	52,944	55,947	48,232	52,886	
Lubricating oil	3,331	3,774	3,057	3,403	3,558	3,612	
Grease	426	598	348	336	333	389	
Paraffin wax, etc.	835	854	955	1,009	815	1,106	
Petroleum jelly	128	97	208	236	228	241	
Asphalt	4,952	5,531	7,934	5,526	4,858	5,124	
United States—							
Crude petroleum	55,175,624	54,817,219	54,584,541	57,238,878	58,897,926	64,398,618	
Aviation spirit	20,912	—	50,023	3,360	1,619	299,897	
Motor spirit, etc.	1,264,678	2,978,302	2,041,739	289,595	215,765		
Naphtha, etc.	31,402	364,831	363,180	255,935	112,394	1,281,455	
Kerosine	15,922	4,287	15,879	8,837	54,084	379	
Aviation turbine fuel	(a)	(a)	(a)	1,615,884	1,476,386	2,213,007	
Fuel oil	25,661,278	28,606,304	32,549,078	33,649,080	33,640,432	38,335,669	
Gas oil and diesel oil	1,241,109	1,985,880	2,007,818	1,328,327	1,853,292	1,314,012	
Unfinished distillates and topped oils	222,284	2,871,438	3,180,507	2,863,433	3,674,336	3,028,321	
Lubricating oil, etc.	73	1,052	128	3,222	2,381	3,961	
Road oil, etc.	370,607	366,680	267,504	213,709	228,606	318,310	
Paraffin wax, etc.	24	810	2,634	759	356	205	
Ozokerite and ceresin	1,274	1,937	2,660	1,918	2,835	3,058	
Petroleum jelly	2	3	513	6,238	4	7,930	
Asphalt (petroleum)	704,595	821,504	1,028,791	774,746	837,810	719,124	
Natural asphalt and bitumen	3,546	22,153	3,366	19,496	21,051	43,930	
Natural gas (million cu. ft.)	37,941	135,797	133,990	155,646	218,860	372,389	
Argentina—							
Crude petroleum	6,056,679	5,550,211	5,374,095	3,262,806	1,771,838	1,097,826	
Motor spirit	81,379	52,733	40,993	42,672	66,220	50,158	
Kerosine	112,063	139,206	248,427	478,925	522,444	328,334	
Gas oil	395,967	330,534	393,376	501,351	642,228	679,302	
Fuel oil	2,230,538	1,399,230	1,555,257	366,176	2,336	—	
Diesel oil	234,246	320,446	442,922	255,319	219,533	266,528	
Lubricating oil	38,433	63,590	40,906	63,434	34,731	109,380	
Grease	68	209	373	86	341	647	
Bolivia—							
Aviation spirit	5,786	9,746	10,895	10,387	13,000	n.a.	
Motor spirit	43	2	11	—	n.a.	n.a.	
Kerosine	7	27	11	11	n.a.	n.a.	
Fuel oil	8,339	712	11,980	25,882	n.a.	n.a.	
Lubricating oil and grease	6,694	5,343	3,301	3,448	n.a.	n.a.	
Paraffin wax, etc.	1,469	1,088	1,013	1,280	n.a.	n.a.	
Tar, pitch, etc.	93	607	589	588	n.a.	n.a.	

(a) Included with motor spirit.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Brazil—						
Crude petroleum ..	4,769,580	5,563,200	5,651,472	5,594,150	7,429,857	9,803,889
Aviation spirit ..	260,610	292,271	293,209	275,785	248,219	238,206
Motor spirit ..	431,523	657,291	401,011	601,128	548,472	174,457
White spirit ..	1,291	705	1,071	1,392	2,793	3
Kerosine ..	385,304	304,611	222,370	96,645	135,576	85,025
Diesel oil ..	875,426	1,103,858	1,251,348	1,244,422	589,916	37,549
Fuel oil ..	1,558,403	1,654,250	1,227,811	1,689,975	1,269,636	122,001
Lubricating oil ..	183,008	152,825	180,102	208,530	179,182	231,679
Transformer oil ..	3,853	1,656	2,411	359	1,772	6,669
Petroleum jelly ..	1,816	898	1,582	1,652	1,210	1,146
Greases ..	77	127	108	163	174	58
Paraffin wax ..	11,381	10,113	10,359	16,678	13,446	20,574
Ozokerite and ceresin ..	142	81	136	271	203	1
Asphalt and bitumen ..	727	15,647	1,716	1,085	4,175	626
Chile—						
Aviation spirit ..	34,417	27,977	35,313	15,552	17,581	<i>n.a.</i>
Motor spirit ..	49,187	48,579	17,567	12,588	9,137	<i>n.a.</i>
Kerosine ..	163,807	85,209	150,772	102,136	37,449	<i>n.a.</i>
Diesel oil ..	118,970	236,772	158,537	107,060	153,564	<i>n.a.</i>
Residual fuel oil (a) ..	682,284	790,038	1,823,199	1,690,397	1,164,540	<i>n.a.</i>
Lubricating oil ..	29,671	31,270	28,708	18,343	15,175	<i>n.a.</i>
Petroleum jelly ..	201	191	107	178	<i>n.a.</i>	<i>n.a.</i>
Greases ..	1,718	1,307	1,658	1,626	2,567	<i>n.a.</i>
Paraffin wax ..	6,645	7,122	7,959	6,496	8,730	<i>n.a.</i>
Natural asphalt ..	3,926	3,031	1,500	566	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Aviation spirit ..	21,883	13,672	24,372	23,470	17,348	13,040
Motor spirit ..	204,829	24,263	9,308	36,202	104,631	169,079
Kerosine ..	38,323	3,703	5,090	2,915	5,948	407
Gas oil and diesel oil ..	33,403	4,223	3,154	9,599	12,692	468
Fuel oils ..	6,577	798	795	399	780	840
Lubricating oil ..	30,040	29,575	28,058	29,463	34,267	34,667
Petroleum jelly ..	506	388	393	435	429	510
Paraffin wax ..	24,227	14,433	19,519	23,483	28,020	23,225
Natural asphalt ..	3,648	94	3	1	9	7
Ecuador—						
Motor spirit ..	74,290	74,003	70,936	10,263	<i>n.a.</i>	<i>n.a.</i>
Lubricating oil and greases ..	4,315	4,558	5,024	<i>n.a.</i>	5,470	5,218
Petroleum jelly ..	48	109	53	<i>n.a.</i>	76	90
Paraffin wax ..	3,026	2,839	2,811	<i>n.a.</i>	2,946	3,506
Natural asphalt ..	303	2,625	8,257	<i>n.a.</i>	213	1,723
French Guiana—						
Motor spirit, etc. ..	2,140	2,347	2,528	2,500	2,856	2,891
Kerosine ..	763	989	549	715	1,086	577
Fuel oil, etc. ..	1,966	2,671	2,282	2,596	2,754	2,631
Paraguay—						
Motor spirit ..	31,000	35,000	29,000	32,000	36,000	<i>n.a.</i>
Kerosine ..	10,000	10,000	15,000	18,000	15,000	<i>n.a.</i>
Fuel oil, etc. ..	27,000	32,000	43,000	45,000	63,000	<i>n.a.</i>
Lubricating oil ..	1,800	2,400	1,500	2,700	2,400	<i>n.a.</i>
Peru—						
Aviation spirit ..	82,570	68,774	72,739	93,221	36,591	24,774
Motor spirit ..	—	2	3,981	6,965	3,212	17,984
Lubricating oil ..	17,495	16,233	14,063	15,844	14,882	16,352
Petroleum jelly ..	136	84	141	139	185	122
Paraffin wax ..	6,095	6,118	6,152	8,010	6,910	8,719
Asphalt and bitumen ..	5,903	242	4,198	317	4,293	947
Greases ..	1,461	1,173	1,174	1,589	1,410	1,860
Ozokerite ..	3	5	8	15	18	23

(a) Including crude petroleum.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Surinam—						
Motor spirit	11,557	12,127	12,349	16,634	<i>n.a.</i>	<i>n.a.</i>
Kerosine	3,875	4,031	4,046	5,025	<i>n.a.</i>	<i>n.a.</i>
Gas oil	104,618	86,184	5,343	3,739	<i>n.a.</i>	<i>n.a.</i>
Diesel oil			34,798	45,406	<i>n.a.</i>	<i>n.a.</i>
Fuel oil			60,155	68,186	<i>n.a.</i>	<i>n.a.</i>
Lubricating oil			1,433	1,509	2,331	2,106	n.a.
Greases	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Paraffin wax	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Asphalt	2,050	1,653	3,146	2,808	<i>n.a.</i>	<i>n.a.</i>
Uruguay—						
Crude petroleum	1,070,000	1,156,000	1,186,000	1,324,000	1,334,000	1,500,000
Motor spirit, etc.	7,000	46,000	19,000	8,000	38,000	<i>n.a.</i>
Kerosine	<i>n.a.</i>	—	9,000	—	—	<i>n.a.</i>
Gas oil	76,000	49,000	86,000	26,000	44,000	<i>n.a.</i>
Diesel oil	47,000	14,000	18,000	33,000		<i>n.a.</i>
Fuel oil	224,000	90,000	240,000	167,000	39,000	<i>n.a.</i>
Lubricating oil and greases	13,945	5,000	9,000	19,000	11,000	<i>n.a.</i>
Paraffin wax	201	268	418	420	<i>n.a.</i>	<i>n.a.</i>
Venezuela—						
Motor spirit	20,878	195	2,370	42,843	18,124	12,086
White spirit	58	39	2,893	1,423	535	430
Gas and fuel oils	129	11	25	452	2	6
Lubricating oil and grease	67,374	80,012	51,844	39,940	24,298	19,808
Paraffin wax	4,444	3,968	2,918	2,519	2,756	4,325
Petroleum jelly	156	379	175	411	506	607
Asphalt	2,092	1,185	568	502	159	99
Bitumen, pitch, etc.			2,999	352	752	1,602
Burma—						
Motor spirit	26,743	13,176	10,869	14,172	10,554	14,077
Kerosine	2,658	1,805	17	4,321	8,410	15,576
Gas and diesel oils	45,229	28,873	24,224	30,920	23,360	78,378
Lubricating oil	6,722	12,201	15,318	12,170	18,880	14,676
Grease	351	520	766	615	1,358	542
Paraffin wax	3	—	2	3	1	—
Petroleum jelly	361	582	866	658	851	984
Asphalt	11,959	12,227	14,263	16,605	11,971	19,722
Formosa—						
Crude petroleum	(b) 955,520	(b) 684,696	(b) 684,756	1,043,567	1,340,871	1,238,626
Motor spirit	970	1,107	27	21	1	—
Lubricating oil	9,561	9,766	13,675	8,057	15,343	24,678
Grease	437	290	397	798	535	1,067
Petroleum jelly	84	199	5	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Paraffin wax	1,513	1,147	1,052	1,318	1,519	1,847
Asphalt	42	—	16	1,897	2,007	3,653
Indonesia—						
Crude petroleum	3,225,420	1,237,433	1,144,503	349,122	2,108,305	<i>n.a.</i>
Motor spirit	342,556	322,331	138,970	460,543	365,170	<i>n.a.</i>
Kerosine, etc.	268	892	1,502	26,335	183,314	<i>n.a.</i>
Fuel and gas oils	7,458	40,691	19,824	3,263	—	<i>n.a.</i>
Lubricating oil	46,777	58,539	50,174	45,089	63,913	<i>n.a.</i>
Paraffin wax	747	1,000	826	447	679	<i>n.a.</i>
Petroleum jelly	1,065	1,792	1,505	271	1,067	<i>n.a.</i>
Asphalt	40,661	11,177	32,182	14,136	50,874	<i>n.a.</i>
Iran (a)—						
Lubricating oil	12,813	17,586	17,301	25,603	25,480	25,340
Paraffin wax	536	950	2,576	1,198	1,908	2,067
Petroleum jelly	122	211	552	196		
Iraq—						
Lubricating oil	16,938	3,272	844	2,003	2,357	<i>n.a.</i>

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

(b) Including fuel oil.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Israel (b)—						
Motor spirit	189,155	183,321	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Kerosine	154,664	142,600	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Gas, diesel and fuel oils	914,420	1,059,909	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Lubricating oils	11,817	9,515	13,131	r 10,337	13,454	16,287
Paraffin wax	1,382	1,165	1,953	969	1,455	1,976
Petroleum jelly	78	96	82	77	109	112
Asphalt	361	62	235	219	340	142
Japan—						
Crude petroleum	12,540,740	13,915,909	18,772,137	26,628,519	33,344,140	39,451,896
Aviation spirit	89,518	62,264	60,197	50,575	65,649	80,217
Motor spirit	17,664	13,789	2,338	59,511	27,336	16,569
Kerosine	12,972	731	2,447	50	310	2,037
Aviation turbine fuel	3,637	4,687	15,139	47,730	82,647	75,794
Gas oil	96,918	40,043	54,712	79,372	66,358	10,222
Fuel oil	4,743,754	2,761,551	3,008,072	4,867,735	8,213,673	8,942,941
Lubricating oil	82,390	37,438	58,028	146,993	220,527	282,365
Grease	1,045	933	1,667	3,721	3,050	3,334
Petroleum jelly	3,095	2,092	3,513	3,735	4,205	3,413
Paraffin wax	947	1,099	2,207	3,743	3,557	5,253
Gilsonite	1,891	1,723	2,862	3,757	3,861	3,925
Asphalt and pitch	2,210	982	742	173	134	74
Petroleum coke	244,425	149,259	231,470	368,585	489,945	410,281
Jordan—						
Crude petroleum	16,635	19,556	16,898	75,550	203,794	248,432
Motor spirit	36,107	33,267	45,231	43,795	5,456	1,758
Kerosine	33,944	36,144	41,082	5,476	19,813	16,333
Fuel oil, etc.	46,085	62,280	89,006	97,300	58,734	50,848
Lubricating oil	3,042	2,852	3,537	4,511	3,749	5,833
Natural asphalt	6,400	4,799	8,612	8,851	2,004	307
Korea (South)—						
Aviation spirit	} <i>n.a.</i>	} <i>n.a.</i>	1,318	1,291	1,495	1,457
Motor spirit			150,030	120,073	108,261	78,976
Kerosine, etc.			60,458	31,805	39,380	49,546
Gas, diesel and fuel oils			556,665	449,120	533,257	812,814
Lubricating oils			12,705	14,502	8,123	12,457
Greases			3,903	493	863	569
Petroleum jelly			68	156	129	220
Paraffin wax			8,029	13,400	9,470	7,826
Asphalt and pitch	52,933	9,968	19,274	35,010		
Kuwait (a) —						
Diesel oil	196,302	18,442	—	—	—	—
Fuel oil	1,251,685	64,057	—	—	—	—
Laos—						
Aviation spirit	<i>n.a.</i>	<i>n.a.</i>	3,363	4,710	10,085	15,500
Motor spirit	<i>n.a.</i>	<i>n.a.</i>	13,701	11,672	13,249	14,918
Kerosine	<i>n.a.</i>	<i>n.a.</i>	1,649	1,773	2,315	2,540
Gas oil	<i>n.a.</i>	<i>n.a.</i>	3,984	5,150	8,427	4,884
Fuel oil	<i>n.a.</i>	<i>n.a.</i>	1,606	1,444	1,995	2,286
Lubricating oil	<i>n.a.</i>	<i>n.a.</i>	1,174	1,496	1,115	980
Lebanon—						
Crude petroleum	1,034,925	793,790	731,128	721,709	721,019	<i>n.a.</i>
Motor spirit	129,763	122,305	146,724	159,252	187,835	<i>n.a.</i>
Kerosine	49,157	62,645	77,582	104,658	128,945	<i>n.a.</i>
Fuel oil	313,304	283,594	399,403	415,363	444,816	<i>n.a.</i>
Lubricating oil	5,699	4,652	7,233	7,318	3,783	<i>n.a.</i>
Paraffin wax	197	267	302	222	234	<i>n.a.</i>
Natural asphalt	69	20,609	317	375	784	<i>n.a.</i>

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

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

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Philippine Republic—						
Crude petroleum	283,345	743,276	932,760	789,891	2,248,718	2,988,521
Aviation spirit	34,895	42,003	29,804	32,658	18,902	17,621
Motor spirit	320,932	329,921	324,731	394,756	153,981	86,142
Kerosine	132,649	138,586	117,654	164,662	40,280	18,404
Diesel oil	353,412	356,796	316,293	259,126	125,580	55,491
Fuel oils	430,741	361,115	278,314	299,849	66,790	57,124
Lubricating oils	39,697	39,968	44,355	61,326	60,626	41,934
Grease	2,958	2,272	4,035	3,969	4,155	3,544
Petroleum jelly	1,160	1,274	1,693	1,723	1,248	717
Paraffin wax	5,081	5,327	4,766	6,532	5,389	6,329
Asphalt	27,890	38,646	15,842	22,556	19,229	6,238
Syria—						
Crude petroleum	—	—	272,169	673,380	744,337	773,252
Motor spirit	94,296	51,824	25,745	8,253	6,294	5,686
Kerosine	69,868	40,857	31,586	4,397	5,724	5,424
Fuel oil and diesel oil ..	419,982	509,282	408,762	143,895	110,415	620
Lubricating oil	11,113	13,221	10,467	11,748	12,805	21,743
Natural asphalt	975	161	869	1,259	405	9,322
Thailand—						
Aviation spirit	11,982	—	9,011	2,803	7,666	35,033
Motor spirit	277,166	265,474	298,395	361,084	353,943	399,155
Kerosine	83,584	88,972	96,882	114,421	103,756	100,179
Gas, diesel and fuel oils	461,921	492,640	520,955	568,742	681,050	812,819
Lubricating oil	32,346	23,604	26,833	34,745	30,471	47,896
Grease	1,773	1,223	1,843	1,719	1,537	2,588
Paraffin wax	1,603	1,223	1,160	2,197	1,714	2,943
Petroleum jelly	725	521	812	625	552	648
Asphalt	28,655	14,046	34,062	22,601	43,345	50,714
Turkey—						
Crude petroleum	—	—	—	—	162,911	787,731
Motor spirit	265,652	193,392	418,636	351,877	337,164	182,354
Kerosine	250,453	210,456	374,231	298,361	290,749	291,743
Gas and diesel oils	435,121	354,702	619,559	483,463	499,049	455,174
Fuel oil	25,582	18,842	36,550	44,494	70,847	57,314
Lubricating oils and grease	57,334	69,117	69,599	47,614	48,241	62,348
Paraffin wax	145	524	1,459	837	1,057	1,860
Petroleum jelly	147	162	161	165	258	20
Asphalt	46	432	1,970	3,005	1,002	14
Vietnam (South)—						
Aviation spirit	17,007	5,290	1,463	1,758	527	1,822
Motor spirit	136,148	213,118	157,209	147,160	149,678	125,266
Kerosine	54,582	76,623	66,500	71,662	59,817	65,555
Gas oil	29,913	45,662	53,033	57,944	71,368	85,469
Fuels oils	129,022	118,774	182,458	192,989	256,839	230,314
Lubricating oils and grease	11,197	11,269	13,548	13,953	13,346	<i>n.a.</i>
Petroleum jelly	127	86	90	124	153	<i>n.a.</i>
Paraffin wax	2,078	2,713	2,616	3,003	5,381	<i>n.a.</i>
French Polynesia—						
Motor spirit, etc.	3,581	3,106	4,284	4,560	6,022	5,744
Kerosine	1,676	1,512	1,843	2,206	2,805	2,958
Other oils	7,645	8,125	8,230	11,363	13,565	9,471
New Caledonia—						
Motor spirit, etc.	14,317	14,302	14,665	14,403	16,528	16,843
Kerosine	3,299	3,865	3,640	3,302	3,725	3,670
Gas and fuel oils	31,992	25,993	19,225	47,183	66,709	49,463
Lubricating oil, etc. ..	1,523	7,237	35,636	30,250	31,345	17,324

PHOSPHATES
PRODUCTION OF PHOSPHATE-ROCK
(Including Apatite)

Producing Country	Estimated Tribasic Phosphate of Lime Content or equivalent						Long tons
	1957	1958	1959	1960	1961	1962	
COMMONWEALTH COUNTRIES							
Seychelles (a) (b) ..	6,136	16,540	5,526	6,988	7,455	5,338	3,000
Southern Rhodesia (d) ..	—	—	1,676	3,437	446	—	5,000
Tanganyika (c) ..	3	—	—	—	—	19	300
Uganda (d) ..	3,256	2,474	3,124	4,008	395	1,000	200
Jamaica (c) ..	101	130	27	64	32	22	10
Christmas Island (b) (e) ..	335,569	373,750	494,347	503,440	694,210	520,750	443,000
India (d) ..	9,178	14,572	13,808	14,685	19,822	28,560	10,000
Sarawak (c) ..	465	306	619	n.a.	n.a.	200	n.a.
Australia—							
Phosphate rock ..	10,843	7,251	4,775	2,234	4,759	4,385	2,000
Guano ..	587	170	—	87	115	n.a.	n.a.
Nauru Island (b) ..	1,105,250	1,234,450	1,192,240	1,351,257	1,436,032	1,525,650	1,312,000
Ocean Island (b) ..	292,150	323,800	314,392	319,526	337,533	256,650	221,000
TOTAL ..	1,763,000	1,973,000	2,031,000	2,207,000	2,501,000	2,343,000	
OTHER COUNTRIES							
Belgium (e) ..	15,854	17,724	12,973	8,113	13,795	12,285	2,000
France (e) ..	91,803	101,697	75,642	57,108	80,200	66,300	15,000
Poland ..	n.a.	70,000	40,000	40,000	46,000	55,000	n.a.
Spain ..	186	—	r	r	—	—	—
U.S.S.R. (f) —			387	3,198	—	—	—
Apatite ..	3,940,000	3,940,000	3,940,000	4,230,000	4,530,000	5,120,000	4,470,000
Phosphate rock ..	1,720,000	1,970,000	1,970,000	r2,269,000	3,050,000	3,450,000	2,280,000
Algeria ..	603,404	552,088	562,733	543,154	432,666	384,000	260,000
Egypt ..	576,000	549,000	668,000	558,000	617,000	f620,000	380,000
Malagasy Republic ..	3,459	5,000	7,000	—	—	—	380,000
Morocco ..	5,479,588	6,235,756	7,050,365	7,374,134	7,824,147	8,033,053	5,913,000
Mozambique (a) ..	441	118	90	103	—	—	—

(g) In addition, the following amounts of phosphate dust were exported (long tons): 1957—n.a.; 1958—n.a.; 1959—68,733; 1960—n.a.; 1961—76,438; 1962—79,527.

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

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

PRODUCTION OF PHOSPHATE ROCK (cont.)

Long tons

Producing Country	Estimated Tribasic Phosphate of Lime Content or equivalent						1962	1962					
	1957	1958	1959	1960	1961	1962		1957	1958	1959	1960	1961	1962
OTHER COUNTRIES													
<i>(cont.)</i>													
Senegal—													
Phosphate rock ..	88,441	102,928	93,834	105,985	400,541	489,239	489,239	—	88,000	333,000	333,000	406,000	
Aluminium phosphates ..	—	—	217	339	137,179	139,192	139,192	—	65,000	86,000	86,000	87,000	
Somali Republic (b) (f) ..	—	—	—	—	n.a.	n.a.	n.a.	—	129	n.a.	n.a.	n.a.	
South Africa—													
Phosphate rock (h) ..	166,433	213,087	228,005	263,423	291,904	302,312	302,312	82,000	110,000	92,000	173,000	184,000	
Guano ..	(f) 3,757	(i) 3,853	5,251	3,636	4,687	4,700	4,700	900	900	1,300	1,100	1,100	
South West Africa (f) ..	2,527	—	1,187	—	922	574	574	600	—	300	200	100	
Togo land ..	—	—	—	—	116,035	190,000	190,000	—	—	—	92,000	153,000	
Tunisia ..	2,034,674	2,242,546	2,150,455	2,062,894	1,951,000	2,064,000	2,064,000	1,323,000	1,458,000	1,398,000	1,341,000	1,342,000	
Netherlands Antilles (b) ..	105,384	85,269	96,611	113,097	149,596	129,474	129,474	77,000	62,000	71,000	83,000	109,000	
United States (e) ..	13,976,000	14,879,000	15,869,000	17,516,000	18,559,000	19,382,000	19,382,000	9,517,000	10,199,000	10,791,000	11,892,000	12,681,000	
Brazil—													
Apatite ..	123,630	111,034	130,846	199,975	240,056	305,219	305,219	71,000	64,000	76,000	116,000	177,000	
Phosphate rock ..	47,527	108,122	859,638	665,763	401,571	251,406	251,406	n.a.	n.a.	n.a.	n.a.	n.a.	
Chile—													
Apatite ..	19,074	(g) 40,000	19,101	17,260	13,734	12,295	12,295	11,200	24,700	11,000	8,000	7,000	
Guano ..	34,000	31,000	21,000	16,300	17,000	16,000	16,000	13,000	12,000	8,000	6,000	6,000	
Peru (f) ..	280,000	164,000	r 125,000	r 155,000	156,000	157,000	157,000	70,000	40,000	30,000	40,000	40,000	
Venezuela ..	146,000	—	—	—	—	—	—	77,000	—	—	—	—	
China (d) ..	(a) 200,000	(a) 300,000	(a) 500,000	(a) 600,000	(a) 500,000	(a) 600,000	(a) 600,000	150,000	200,000	350,000	350,000	450,000	
Indonesia (g) ..	500	500	(c) 2,000	7,000	9,000	2,000	2,000	200	200	1,000	3,000	1,000	
Israel ..	r 149,551	206,226	201,500	220,639	222,000	226,000	226,000	90,000	128,000	125,000	137,000	142,000	
Jordan ..	257,761	289,296	332,292	356,135	415,839	670,254	670,254	188,000	211,000	243,000	260,000	489,000	
Philippine Republic—													
Phosphate rock ..	—	—	—	349	—	3,713	3,713	—	—	—	n.a.	n.a.	
Guano ..	3,685	7,116	373	9,877	396	93	93	900	2,000	90	2,400	20	
Vietnam (North) (d) ..	55,000	133,000	256,000	482,000	568,000	(a) 600,000	(a) 600,000	50,000	120,000	220,000	420,000	500,000	
French Polynesia (Makatea)	303,600	320,000	362,967	406,684	374,679	312,081	312,081	249,000	262,000	298,000	333,000	307,000	
TOTAL ..	30,000,000	r 33,000,000	35,000,000	38,000,000	41,000,000	44,000,000	44,000,000						
WORLD'S TOTAL ..	32,000,000	r 35,000,000	37,000,000	40,000,000	43,000,000	46,000,000	46,000,000						

Phosphate rock is also known to have been produced in North Korea.

(a) United States Bureau of Mines' estimate. (b) Exports. (c) Estimated.

(g) Source: International Superphosphate Manufacturers' Association.

(i) Sales to farmers. Years ended June 30 of that stated.

(d) Apatite. (e) Marketable production. (f) Phosphatic guano.

(h) Including apatite and aluminium phosphates.

PRODUCTION OF SUPERPHOSPHATES

Long tons

Producing Country	1957	1958	1959	1960	1961	1962	Estimated P ₂ O ₅ Content					
							1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES												
United Kingdom—												
Single	890,335	760,570	682,372	719,624	654,224	609,776	167,200	140,700	136,500	143,900	130,800	122,000
Concentrated* .. .	(c) 97,000	114,906	148,852	160,679	172,139	179,452	46,000	51,700	65,000	69,400	72,200	79,000
Canada*—												
Single	184,401	170,010	199,845	213,698	285,100	n.a.	36,900	34,000	40,000	42,700	57,000	n.a.
India—												
Single	142,000	167,000	248,000	317,000	366,000	437,898	23,000	27,000	40,000	51,000	59,000	70,000
Concentrated* .. .	92	50	—	—	—	—	40	20	—	—	—	—
Pakistan—												
Single	1,024	1,089	1,529	3,879	8,048	7,842	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Australia—												
Single (a)	1,975,015	2,219,592	2,150,413	2,450,249	2,540,544	2,591,379	434,500	488,300	473,100	539,100	558,900	570,100
Single (b)	843,139	767,197	906,685	1,045,168	1,049,800	1,027,400	168,600	153,400	181,300	209,000	210,000	205,000
TOTAL							880,000	900,000	940,000	1,060,000	1,090,000	1,100,000
Irish Republic*—												
Single	122,263	191,094	202,746	229,200	211,432	c 290,000	22,000	34,400	36,200	40,900	39,700	52,000
Concentrated .. .	—	—	—	—	22,858	(c) 20,600	—	—	—	—	9,900	9,000
OTHER COUNTRIES												
Austria*—												
Single	43,600	119,230	133,899	150,857	183,998	242,691	7,800	21,500	24,100	27,200	33,100	43,900
Belgium*—												
Single	(c) 172,000	191,266	201,821	185,807	191,216	209,400	29,000	33,800	34,700	32,500	34,300	37,700
Concentrated .. .	(c) 28,900	53,525	58,289	(c) 61,000	(c) 65,000	(c) 69,600	12,400	23,500	25,600	27,000	28,000	31,000
Czechoslovakia—												
Single	362,000	402,000	470,000	499,000	618,000	695,000	65,247	72,313	84,610	89,909	111,325	125,168

*Source : International Superphosphate Manufacturers' Association. (a) Years ended June 30 of that stated.

(b) Superphosphate content of all fertilizers made during the years ended March 31st of the year following that stated.

(c) Estimated.

PRODUCTION OF SUPERPHOSPHATES (cont.)

Long tons

Producing Country	1957	1958	1959	1960	1961	1962	Estimated P ₂ O ₅ Content					
							1957	1958	1959	1960	1961	1962
OTHER COUNTRIES (cont.)												
Denmark (a)	301,929	218,811	168,127	105,902	55,667	n.a.	54,300	39,400	30,300	19,100	10,000	n.a.
Finland*	113,207	153,300	222,394	225,646	210,600	224,116	20,900	29,100	42,300	42,900	40,000	42,600
Kotka-phosphate	237,762	n.a.	143,520	152,977	138,012	111,556	44,000	n.a.	27,300	29,100	26,200	21,200
France	1,138,965	1,220,591	1,149,903	1,203,261*	1,286,826*	1,437,116*	194,000	208,000	195,000	212,000	231,000	258,000
Concentrated*	32,461	49,931	54,407	56,549	56,085	67,083	14,600	21,200	24,100	23,600	23,300	28,200
Germany (Federal)*	431,873	457,201	444,828	391,104	288,549	276,450	73,800	76,800	84,900	67,200	52,500	49,800
Germany (East)	399,000	409,000	427,000	544,000	596,000	608,000	71,800	73,700	76,800	98,000	107,200	109,500
Greece*	193,448	209,574	207,396	168,646	165,737	160,000	30,900	33,500	33,100	30,000	29,000	30,000
Hungary	162,295	202,119	r 227,251	r 262,241	322,007	416,884	26,000	32,300	36,400	42,000	51,500	66,700
Italy	1,822,814	1,721,650	1,732,433	1,473,313	1,507,065	1,393,756	349,600	335,000	341,000	292,000	299,000	277,000
Netherlands*	407,880	436,150	498,897	525,984	499,039	350,519	73,800	79,900	89,100	94,600	90,100	63,100
Concentrated	106,060	113,796	100,443	125,573	117,523	119,982	46,000	47,700	43,200	52,200	49,400	48,000
Norway	58,305	66,000	58,000	63,000	62,000	38,823	10,500	12,000	10,000	11,000	11,500	7,000
Concentrated*	28,120	18,005	39,332	36,847	25,650	26,054	9,700	5,900	12,800	11,000	9,700	8,300
Poland (b)	518,000	572,000	621,000	689,000	810,000	n.a.	85,000	94,000	102,000	114,000	134,000	n.a.
Portugal	434,785	385,453	409,472	438,705	448,197	413,582	78,300	69,400	73,700	79,000	81,000	74,000
Concentrated												

*Source: International Superphosphate Manufacturers' Association.

(a) In addition the following amounts of potash superphosphate were produced (long tons): 1957—256,843; 1958—356,920; 1959—417,237; 1960—547,860; 1961—634,353; 1962—n.a.

(b) In addition the following amounts of superbasic slag were produced (long tons): 1957—136,000; 1958—148,000; 1959—166,000; 1960—236,000; 1961—242,000; 1962—n.a.

PRODUCTION OF SUPERPHOSPHATES (cont.)

Long tons

Producing Country	1957	1958	1959	1960	1961	1962	Estimated P ₂ O ₅ Content								
							1957	1958	1959	1960	1961	1962			
OTHER COUNTRIES (cont.)															
Roumania—															
Single	74,000	119,000	269,000	320,000	350,000	530,000	12,000	19,000	43,000	51,000	56,000	85,000			
Spain—						n.a.	258,700	294,300	329,200	318,600	293,200	n.a.			
Single	1,532,778	(a)1,743,000	(a)1,950,000	(a)1,979,000	(a)1,810,000		96,000	89,100	93,900	93,000	91,600	88,800			
Sweden*—							—	—	2,400	2,500	5,600	6,300			
Single	488,442	461,509	484,825	476,000	469,673	455,338	—	—	—	—	—	—			
Concentrated	—	—	6,960	8,552	19,251	21,596	—	—	—	—	—	—			
Switzerland*—							3,300	4,900	7,000	7,000	3,000	6,000			
Single	18,600	27,500	40,000	(c)40,000	16,000	33,570	45	150	—	45	—	—			
Concentrated	(c) 100	344	—	100	—	—	—	—	—	—	—	—			
Yugoslavia—							40,000	50,000	52,000	46,000	77,000	n.a.			
Single	212,399	260,742	272,776	243,760	405,997	n.a.	40,000	50,000	52,000	46,000	77,000	n.a.			
Concentrated							15,400	14,900	13,400	12,600	8,700	7,400			
Algeria—							4,000	(b)	(b)	(b)	(b)	(b)			
Single	96,240	93,132	83,903	78,876	54,372	46,200	26,900	24,900	24,600	27,700	33,900	29,000			
Canary Islands—							12,000	16,000	14,000	13,000	15,000	19,000			
Single	26,023	(b)	(b)	(b)	(b)	(b)	114,700	126,100	120,000	126,300	120,300	120,000			
Egypt*—							4,000	7,000	7,000	8,300	7,000	n.a.			
Single	174,676	164,169	163,904	184,541	225,916	193,200	4,000	5,000	5,000	4,000	4,000	4,000			
Morocco—							43,000	46,000	52,000	52,000	57,000	62,000			
Single	76,000	99,000	87,000	77,000*	88,000*	110,000*	7,000	7,000	7,000	8,300	7,000	n.a.			
South Africa*—							633,157	664,962	631,610	664,962	633,157	631,610			
Single	603,705	663,455	631,610	664,962	633,157	c 650,000	25,600	23,500	30,000	24,100	23,500	25,600			
Tunisia—							144,000	133,000	122,000	r 122,700	133,000	144,000			
Single	28,000	32,000	30,000	r 24,100	23,500	25,600	46,000	46,000	46,000	46,000	46,000	46,000			
Concentrated	99,000	107,000	122,000	r 122,700	133,000	144,000	16,200	13,700	18,600	25,000	25,000	20,000			
Cuba*—							1,232,200	1,155,700	1,246,000	1,144,000	1,116,000	1,008,300			
Single	(c)40,000	(c)40,000	(c)40,000	46,002	(c) 40,000	n.a.	742,400	744,200	744,200	744,200	933,100	826,100			
Mexico*—							16,200	13,700	18,600	25,000	25,000	20,000			
Single	83,250	69,644	100,758	134,994	c 140,000	107,700	1,232,200	1,155,700	1,246,000	1,144,000	1,116,000	1,008,300			
United States*—							5,601,741	6,201,851	6,201,851	5,601,741	6,201,851	6,201,851			
Single	6,845,281	6,420,361	6,922,130	6,355,487	6,201,851	5,601,741	1,835,704	1,835,704	1,835,704	1,835,704	1,835,704	1,835,704			
Concentrated	1,649,820	1,653,839	1,653,821	r 1,981,798	2,073,661	1,835,704									

*Source: International Superphosphate Manufacturers' Association.

(a) Including Canary Islands.

(b) Included with Spain.

(c) Estimated.

(d) Including enriched superphosphate.

PRODUCTION OF SUPERPHOSPHATES (cont.)

Long tons

Producing Country	1957	1958	1959	1960	1961	1962	Estimated P ₂ O ₅ Content					
							1957	1958	1959	1960	1961	1962
OTHER COUNTRIES (cont.)												
Brazil—							19,000	23,400	35,000	37,000	39,600	n.a.
Single	105,585	129,734	194,302	205,648	219,745	n.a.	n.a.	400	n.a.	1,000	n.a.	n.a.
Columbia—												
Single	n.a.	2,097	n.a.	5,403*	n.a.	n.a.	n.a.	—	7,000	4,700	5,000	4,000
Peru*												
Single	—	—	(a) 34,000	23,400	(a) 24,000	(a) 22,100	—	—	7,000	4,700	5,000	4,000
Uruguay*												
Single	29,500	30,000	(a) 30,000	26,997	(a) 28,000	(a) 24,000	6,500	6,500	6,500	5,400	5,500	4,000
Venezuela*												
Single	—	—	—	8,956	n.a.	(a) 10,000	—	—	—	1,600	n.a.	2,000
Formosa—												
Single	101,969	102,170	116,875	119,542	127,947	141,444	18,400	18,400	21,000	22,000	23,000	25,000
Israel*												
Single	104,115	67,440	71,248	80,196	79,224	79,559	16,800	11,200	11,400	12,700	12,700	12,700
Concentrated	—	15,788	6,840	296	1,709	1,111	—	6,500	2,900	100	700	500
Japan*												
Single	1,827,826	1,715,441	1,784,327	2,097,937	1,817,864	1,728,788	317,300	298,300	309,800	365,300	317,100	306,000
Concentrated	1,731	968	3,150	7,151	9,333	14,667	700	400	1,200	2,600	3,400	5,400
Jordan—												
Single	—	—	—	440	248	516	—	—	—	80	40	90
Lebanon*												
Single	—	10,300	26,216	15,881	(a) 18,000	(a) 31,000	—	2,000	5,000	3,500	3,000	5,500
Philippine Republic*												
Single	—	—	—	2,056	(a) 15,000	(a) 29,300	—	—	—	400	3,000	6,000
Turkey—												
Single	r 32,950	r 19,660	r 61,310	r 61,470	20,860	28,000	5,300	3,100	9,800	9,800	3,300	4,500
TOTAL							5,000,000	5,000,000	5,000,000	6,000,000	6,000,000	6,000,000
WORLD'S TOTAL							6,000,000	6,000,000	6,000,000	7,000,000	7,000,000	7,000,000

An allowance has been made in the total for production in the U.S.S.R.

Single and concentrated superphosphates are also produced in Southern Rhodesia but figures are not available for publication.

*Source: International Superphosphate Manufacturers' Association.

(a) Estimated.

PRODUCTION OF BASIC SLAG

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Great Britain (a) ..	619,712	648,768	646,097	830,380	731,439	940,617
OTHER COUNTRIES						
Belgium (a)	1,135,000	1,051,000	1,108,000	1,208,000	1,127,000	1,211,000
France	1,816,881	1,889,333	2,007,244	2,299,216	2,376,508	2,337,246
Germany (Federal) ..	2,515,000	2,325,000	2,635,000	3,531,000	3,436,000	3,170,000
Germany (East) ..	81,000	87,000	100,000	107,000	108,000	115,000
Italy	74,617	80,700	78,016	97,303	115,506	123,272
Luxemburg	724,500	674,199	704,648	768,125	782,995	773,923
Saar	549,374	562,435	<i>n.a.</i>	(b)	(b)	(b)
Sweden	49,163	52,155	60,076	50,166	<i>n.a.</i>	<i>n.a.</i>

Basic slag has also been produced in Czechoslovakia, Poland, U.S.S.R., United States and Japan.

(a) Years ended June 30 of that stated.

(b) Included with Germany (Federal).

EXPORTS OF PHOSPHATES, ETC.

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom— Phosphatic fertilizers ..	1,313	1,058	166	607	9,871	9,280
Seychelles— Phosphatic guano ..	6,136	16,540	5,526	6,988	7,455	5,338
Uganda— Phosphate-rock ..	2,641	2,630	3,121	4,004	453	584
Canada— Phosphatic fertilizers ..	(£4,848,807)	(£4,531,308)	(£8,510,822)	(£7,684,873)	(£6,933,905)	(£6,475,384)
Christmas Island— Phosphate-rock ..	335,569	373,750	494,347	503,440	694,210	520,750
Phosphate dust ..	n.a.	n.a.	68,733	n.a.	76,438	79,527
Hong Kong— Phosphatic fertilisers ..	—	30,340	—	—	—	3
Malaya— Phosphate-rock ..	298,369	534	782	427	238	783
Phosphatic fertilizers ..	138	63	62	62	111	31
Australia (a)— Superphosphates ..	1,742	2,064	1,919	623	36	16
New Zealand— Superphosphates ..	95	81	93	98	37	110
Nauru Island— Phosphate-rock ..	1,105,250	1,234,450	1,192,240	1,351,257	1,436,032	1,525,650
Ocean Island— Phosphate-rock ..	292,150	323,800	314,392	319,526	337,533	256,650
OTHER COUNTRIES						
Belgium-Luxemburg E.U.— Phosphate-rock ..	836	3,329	3,204	3,124	9,863	20,197
Superphosphates— Single ..	65,948	130,458	95,835	109,567	107,832	148,388
Concentrated ..	29,885	45,047	58,506	61,366	65,694	69,485
Di-calcium phosphate ..	148,287	185,206	200,018	n.a.	n.a.	n.a.
Basic slag ..	1,501,980	1,393,917	1,499,170	1,403,422	1,218,800	1,558,412
France— Phosphate-rock ..	140	839	1,956	1,846	3,508	1,209
Superphosphates ..	23,362	17,971	28,921	83,545	49,318	31,927
Basic slag ..	355,771	334,550	344,662	294,874	283,407	294,591
Di-calcium phosphates ..	1,086	1,751	940	750	805	595
Germany (Federal)— Phosphate-rock ..	99	12,643	16,142	24,960	29,687	33,013
Superphosphates ..	12,433	9,069	14,413	17,258	17,921	14,941
Basic slag ..	146,215	175,589	370,229	389,771	357,866	360,459
Other phosphatic fertilizers ..	11,993	3,898	4,875	3,922	23,017	21,465
Hungary— Superphosphates ..	22,010	37,086	31,300	33,741	6,289	31,586
Italy— Superphosphates ..	122,655	135,135	130,146	109,646	96,820	68,480
Netherlands— Phosphate-rock ..	602	6,937	9,420	4,978	5,056	3,596
Superphosphates ..	344,519	372,478	413,186	468,076	421,792	364,472
Norway— Superphosphates ..	5,019	9,754	20,002	25,121	30,706	25,949
Portugal— Superphosphates ..	12,205	15,122	34,453	35,451	82,042	55,328
Spain— Superphosphates, etc. ..	102	9,169	57,856	45,254	76,269	59,682
Sweden— Superphosphates ..	—	4,029	14,258	—	—	—
Basic slag ..	24,883	17,224	33,439	14,166	5,345	8,020

(a) Years ended June 30 of that stated.

EXPORTS OF PHOSPHATES, ETC. (cont.)

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
U.S.S.R.—						
Apatite ore ..	42,000	98,900	91,600	119,500	164,200	140,600
do. concentrates ..	1,241,800	1,480,900	1,634,500	1,777,100	2,020,900	2,206,700
Superphosphates ..	119,600	93,500	117,200	200,000	334,900	316,600
Yugoslavia—						
Superphosphates ..	—	—	—	41,002	75,943	59,161
Algeria—						
Phosphate-rock ..	563,766	545,924	490,186	462,695	373,200	400,558
Superphosphates ..	7,925	2,170	1,755	2,175	n.a.	n.a.
Egypt—						
Phosphate-rock ..	373,716	416,579	441,641	296,901	414,458	212,015
Malagasy Republic—						
Phosphate-rock ..	3,396	1,968	8,859	—	—	—
Morocco—						
Phosphate-rock ..	5,304,574	6,173,749	6,948,240	7,463,502	7,502,119	7,999,454
Hyperphosphates ..	14,932	8,842	983	5,955	5,636	3,723
Superphosphates ..	58	—	9,482	—	17,918	1
Senegal—						
Phosphate-rock ..	6,899	60,371	—	58,190	303,686	344,847
Aluminium phosphates	64,359			59,367	93,797	88,842	84,671
Phosphate fertilizers ..	—	6,651	16,500	7,222	18,681	32,292
Somali Republic (a)—						
Phosphatic guano ..	—	—	217	339	n.a.	n.a.
South Africa—						
Superphosphates ..	22,145	4,200	540	843	3,296	1,746
South West Africa—						
Phosphatic guano ..	2,517	—	762	—	—	237
Togoland—						
Phosphate-rock ..	—	—	—	—	56,259	181,808
Tunisia—						
Phosphate-rock ..	1,708,710	1,923,949	1,827,936	1,604,275	1,601,311	1,804,707
Hyperphosphates ..	103,722	92,229	101,690	56,838	63,432	35,780
Superphosphates ..	90,040	115,831	108,213	110,141	154,211	113,271
Mexico—						
Phosphate-rock ..	n.a.	13,387	28,795	21,995	23,960	27,289
Netherlands Antilles—						
Phosphate-rock ..	105,384	85,269	96,611	113,097	149,596	129,474
United States—						
Phosphate-rock ..	3,126,215	2,818,073	3,239,722	4,250,970	4,122,733	4,239,121
Superphosphates—						
Single ..	271,357	195,967	140,917	136,786	131,927	115,928
Concentrated ..	290,067	314,423	271,714	280,146	337,271	442,260
French Polynesia (Makatea)—						
Phosphate-rock ..	309,101	304,370	305,678	357,361	362,960	321,574
Israel—						
Phosphate-rock ..	20,881	58,483	91,573	94,265	92,236	64,385
Japan—						
Phosphate-rock ..	—	2,430	12,130	10,686	4,698	11,815
Superphosphates ..	195,436	139,613	102,355	101,599	29,971	64,898
Thermal phosphates ..	1,672	3,902	10,169	25,779	37,620	117,582
Basic slag ..	6,781	—	—	—	—	—
Other phosphatic fertilizers ..	16,754	941	3,207	6,303	18,485	5,546
Jordan—						
Phosphate-rock ..	210,320	228,638	243,829	313,796	376,763	352,685
Lebanon—						
Superphosphates ..	—	3,252	20,902	11,034	11,215	n.a.

(a) Former British Protectorate only.

IMPORTS OF PHOSPHATES, ETC.

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Phosphate-rock.. ..	1,102,422	1,067,452	1,055,685	1,429,515	1,355,649	1,399,288
Superphosphates	2,581	1,625	9,419	33,952	28,390	25,528
Basic slag	110,318	114,958	105,808	80,459	71,411	76,837
Ammonium phosphate	4,680	8,123	10,834	11,730	17,912	14,820
Kenya—						
Phosphate-rock.. ..	1,060	—	52	937	—	—
Superphosphates	12,374	14,151	10,406	10,768	11,163	10,390
Other phosphatic fertilizers	3,362	644	3,637	2,204	1,382	1,276
Mauritius—						
Phosphatic guano	7,175	10,237	8,292	9,620	10,521	7,494
Phosphatic fertilizers	1,913	914	1,883	2,879	5,496	7,016
Nigeria—						
Phosphate-rock.. ..	2	1	54	444	47	11
Superphosphates	511	411	r 495	308	159	3,199
Other phosphatic fertilizers	987	3,078	r 693	r 999	1,807	7,382
Rhodesia and Nyasaland—						
Phosphate-rock.. ..	7,560	18,703	64,570	59,466	66,236	66,504
Superphosphates	60,777	39,933	14,140	17,296	21,188	20,203
Other phosphatic fertilizers	n.a.	n.a.	n.a.	81	529	3,991
Tanganyika—						
Superphosphates	2,126	699	816	1,315	1,135	570
Other phosphatic fertilizers	120	42	(a) 31	67	8	33
Uganda—						
Superphosphates	76	1,694	1,440	1,033	1,185	1,402
Other phosphatic fertilizers	610	18	27	1,345	1	310
Canada—						
Phosphate-rock.. ..	645,732	664,432	711,663	841,070	943,647	1,032,113
Superphosphates, triple	40,518	39,507	57,436	74,234	60,210	49,548
do. other	146,202	154,872	126,913	106,865	111,218	98,043
Basic slag	500	750	350	500	491	268
Other phosphatic fertilizers	2,527	2,969	3,558	5,575	6,008	19,232
Antigua—						
Phosphatic fertilizers	25	15	—	3	3	52
Grenada—						
Superphosphates	—	—	600	599	310	n.a.
Jamaica—						
Phosphatic fertilizers	2,800	2,383	1,409	1,588	812	1,568
St. Vincent—						
Superphosphates	62	84	150	48	24	—
Trinidad and Tobago—						
Superphosphates	2,430	1,305	1,377	1,815	1,287	1,029
Basic slag	20	30	20	—	—	—
British Guiana—						
Superphosphates	1,155	2,530	113	2,817	1,711	n.a.
Other phosphatic fertilizers	3,110	2,063	1,903	1,362	4,307	n.a.
Ceylon—						
Phosphate-rock.. ..	28,470	19,397	60,077	72,119	57,704	52,275
Superphosphates	8,050	1,296	3,258	966	847	1,452
Basic slag	224	183	184	135	40	26
Other phosphatic fertilizers	25,595	26,125	4,644	74	349	15
Cyprus—						
Superphosphates	38,633	31,201	31,124	35,140	37,421	32,403
Basic slag, etc.	102	—	1,059	340	683	198

(a) Excess of re-exports.

IMPORTS OF PHOSPHATES, ETC. (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
<i>(cont.)</i>						
Hong Kong—						
Phosphatic fertilizers ..	169	29,062	130	104	213	84
India—						
Phosphate-rock ..	115,895	121,260	188,864	(b) 249,833	(b) 249,956	(b) 301,065
Other phosphates ..	47	4,480	264	(b) 4,799	(b) 1,969	(b) 63
Superphosphates ..	3,687	266	5,348	(b) 596	(b) 737	(b) 2,213
Ammonium phosphate ..	10	47	228	(b) 5	(b) 8	(b) 9,846
Malaya—						
Phosphate-rock ..	31,163	29,879	65,637	64,879	78,960	79,881
Phosphatic fertilizers ..	10,843	3,122	3,334	18,050	8,932	6,570
North Borneo—						
Superphosphates ..	27	41	243	33	81	—
Other phosphatic fertilizers ..	558	1,218	475	476	44	1,279
Sarawak—						
Natural phosphates ..	61	484	4	1	19	797
Phosphatic fertilizers ..	1,059	2,069	3,138	5,026	5,146	5,018
Australia (a)—						
Phosphate-rock ..	1,321,607	1,273,766	1,353,739	1,322,173	1,723,518	1,950,134
Superphosphates ..	150	1	—	—	100	126
New Zealand—						
Phosphate-rock ..	540,579	486,292	469,373	608,202	597,568	580,620
Phosphatic guano ..	—	8,500	—	—	—	5,324
Superphosphates ..	256	392	70	—	54	49
Basic slag ..	49,581	41,648	25,344	29,670	31,516	21,522
Other phosphates ..	509	1,968	r 304	2,527	4,750	4,849
Irish Republic—						
Phosphate-rock ..	73,387	121,544	135,853	163,057	221,938	221,806
Superphosphates ..	66,998	66,270	77,697	87,210	14,031	2,358
Basic slag ..	44,337	38,358	85,252	49,950	65,655	121,378
Other phosphatic fertilizers ..	12,335	10,062	18,415	11,226	13,637	16,787
OTHER COUNTRIES						
Austria—						
Phosphate-rock ..	39,373	69,154	109,921	121,905	124,248	190,273
Superphosphates ..	135,000	114,363	(c) 72,437	(c) 76,495	(c) 26,902	(c) 11,750
Basic slag ..	199,718	224,285	242,540	267,189	264,049	269,146
Belgium-Luxemburg						
E.U.—						
Phosphate-rock ..	475,986	571,697	609,667	642,026	886,094	865,992
Superphosphates ..	—	4	71	255	1,254	6,307
Di-calcium phosphates ..	2	6	8	137	n.a.	n.a.
Basic slag ..	508	57	352	100	44	4
Czechoslovakia—						
Phosphatic fertilizers (d)	94,000	120,000	124,000	146,000	170,000	191,000
Denmark—						
Phosphate-rock ..	265,813	269,738	279,544	259,558	302,353	281,522
Superphosphates ..	126,839	97,095	99,666	167,709	188,398	126,929
Di-calcium phosphates ..	n.a.	n.a.	n.a.	26,868	23,544	25,981
Basic slag ..	5,163	7,229	7,818	6,024	6,146	9,365
Finland—						
Phosphate-rock ..	303,001	234,198	238,866	231,786	273,625	231,706
Superphosphates ..	—	—	15,843	68,293	73,302	62,335
Basic slag ..	—	6	25,194	24,292	10,089	10,947
Di-calcium phosphates ..	8,701	11,217	12,858	7,689	165	888

(a) Years ended June 30 of that stated.

(c) Including other phosphatic fertilizers.

(b) Years ended March 31 following that stated.

(d) P_2O_5 content.

IMPORTS OF PHOSPHATES, ETC. (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
France—						
Phosphate-rock	1,412,789	1,763,638	1,655,983	1,707,582	1,762,437	1,998,572
Aluminium phosphates	65,528	71,092	71,497	103,067	87,427	85,189
Superphosphates	55,643	68,353	101,728	221,547	270,980	287,682
Calcined phosphates ..	52,128	36,173	15,796	15,427	13,195	19,123
Basic slag	273,900	248,199	284,680	428,223	598,419	871,444
Di-calcium phosphates	19,597	19,412	10,476	12,724	22,505	27,113
Germany (Federal)—						
Phosphate-rock, etc. ..	1,047,246	1,216,183	1,433,115	1,616,786	1,488,526	1,596,262
Superphosphates	2,559	2,448	5,197	6,303	18,636	34,935
Basic slag	409,429	373,154	592,224	866,335	521,858	436,911
Germany (East) (a)—						
Phosphatic fertilizers ..	58,001	61,250	62,450	56,164	58,217	25,136
Greece—						
Phosphate-rock	151,007	186,891	178,902	180,675	141,260	145,632
Other phosphatic fertilizers	6,866	29,481	30,811	8,765	17,994	73,334
Hungary—						
Phosphate-rock	74,471	157,618	135,751	174,807	185,744	227,319
Iceland—						
Superphosphates	6,063	7,972	8,485	8,120	6,617	10,789
Italy—						
Phosphate-rock	1,286,161	1,303,749	1,180,856	1,444,811	1,363,315	1,548,820
Superphosphates	353	195	7,234	8,120	—	9
Basic slag	68,324	64,702	56,536	2,240	11,590	23,247
Netherlands—						
Phosphate-rock	549,133	616,175	605,289	719,800	700,260	555,807
Superphosphates	122	86	2,519	30,149	36,897	77,073
Basic slag	305,736	289,559	302,205	270,668	131,862	146,177
Di-calcium phosphates	23,250	20,787	26,114	14,456	3,621	185
Ammonium phosphates	5,644	10,563	6,515	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Norway—						
Phosphate-rock	148,239	122,274	135,300	132,590	150,507	165,708
Basic slag	6,579	6,816	8,111	8,444	9,039	7,779
Poland—						
Apatite concentrates ..	<i>n.a.</i>	202,300	227,400	269,200	334,900	<i>n.a.</i>
Phosphate rock	<i>n.a.</i>	270,600	285,100	351,900	446,400	<i>n.a.</i>
Portugal—						
Phosphate-rock	245,078	218,674	245,200	251,360	271,063	238,388
Superphosphates	2,461	4,183	—	—	—	—
Basic slag	13,760	22,083	22,811	13,028	11,417	9,351
Roumania—						
Phosphate-rock (a)	<i>n.a.</i>	25,600	54,300	71,700	78,500	101,200
Spain—						
Phosphate-rock	833,945	920,418	1,005,055	926,232	926,640	1,010,040
Superphosphates, etc. ..	1	—	—	—	—	—
Basic slag	63,632	49,875	86,192	16,975	13,262	29,649
Sweden—						
Phosphate-rock	346,338	294,506	331,982	339,063	367,750	391,464
Superphosphates	1,847	1,649	3,026	13,085	938	10
Di-calcium phosphates	<i>n.a.</i>	<i>n.a.</i>	10,310	12,466	7,822	5,586
Switzerland—						
Phosphate-rock	(b) 24,000	(b) 22,000	(b) 23,000	37,054	34,530	30,641
Superphosphates, etc. ..	12,941	14,211	13,759	10,414	11,885	12,600
Basic slag	158,493	162,502	168,522	168,258	172,023	176,664
Di-calcium phosphates	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,278	2,302	2,665
Yugoslavia—						
Phosphate-rock	159,294	144,736	157,259	197,183	250,616	319,154
Superphosphates	90,397	152,042	162,492	54,511	2,953	73,877
Basic slag	82,235	104,746	179,035	54,888	2,814	7,598

 (a) P_2O_5 content.

(b) Estimated on imports from producing countries.

IMPORTS OF PHOSPHATES, ETC. (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES (cont.)						
Algeria—						
Superphosphates ..	7,122	9,961	8,604	12,216	n.a.	n.a.
Basic slag	2,472	2,711	1,910	3,263	n.a.	n.a.
Di-calcium phosphates	2,194	3,888	2,618	1,736	n.a.	n.a.
Angola—						
Superphosphates ..	238	292	1,177	623	715	1,565
Cameroun—						
Phosphatic fertilizers ..	257	617	340	93	257	405
Canary Islands—						
Phosphate-rock	18,577	16,723	16,573	11,420	16,598	14,293
Egypt—						
Superphosphates ..	—	—	—	29,365	129,647	73,921
Malagasy Republic—						
Phosphatic fertilizers ..	1,101	720	430	742	344	401
Morocco—						
Superphosphates ..	90	6	586	39	—	438
Di-calcium phosphates	488	3,124	4,378	6,066	2,923	1,756
Reunion—						
Phosphate fertilizers ..	n.a.	360	4,512	3,745	1,729	790
South Africa—						
Phosphate-rock	405,021	389,659	338,797	378,114	364,471	443,691
Phosphatic guano	91	—	500	—	—	—
Superphosphates ..	4,859	1,385	1,204	1,743	2,662	6,321
Basic slag	45,346	51,721	42,752	39,658	51,157	44,053
Tunisia—						
Phosphatic fertilizers ..	2,564	1,146	738	236	68	—
Costa Rica—						
Phosphatic fertilizers ..	16,874	18,908	27,160	34,725	21,495	8,675
Cuba—						
Superphosphates ..	53,748	38,623	35,939	n.a.	n.a.	n.a.
Calcium phosphates ..	6,615	14,779	9,887	n.a.	n.a.	n.a.
Dominican Republic—						
Superphosphates ..	9,355	5,060	8,154	3,749	4,732	n.a.
French West Indies—						
Guadeloupe—						
Phosphatic fertilizers ..	n.a.	n.a.	316	1,103	523	184
Martinique—						
Phosphatic fertilizers ..	n.a.	n.a.	2,064	2,815	3,041	2,470
Guatemala—						
Phosphatic fertilizers ..	n.a.	n.a.	2,346	2,133	508	5,395
Honduras—						
Phosphatic fertilizers ..	105	71	245	152	135	579
Mexico—						
Phosphate-rock	62,553	37,123	48,674	65,269	65,263	121,265
Superphosphates ..	12,553	7,298	11,639	20,059	34,195	6,513
Ammonium phosphates	12,471	15,773	13,371	14,893	11,509	16,720
Nicaragua—						
Phosphatic fertilizers ..	1,256	751	732	212	341	714
Panama Republic—						
Phosphatic fertilizers ..	n.a.	509	323	519	674	n.a.
Salvador—						
Phosphatic fertilizers ..	n.a.	n.a.	4,342	1,707	1,109	1,131
United States—						
Phosphate-rock	109,546	108,182	139,891	129,290	134,004	133,628
Superphosphates—						
Single	71	83	128	1,112	1,151	13,860
Concentrated	598	495	856	915	1,946	44,352
Ammoniated	433	1,329	2,733	237	140	954
Basic slag	111	160	237	—	46	2,012
Di-calcium phosphates	1,685	4,078	3,287	5,164	10,149	9,193
Ammonium phosphates	151,313	141,716	192,596	107,087	100,887	75,034

IMPORTS OF PHOSPHATES, ETC. (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Brazil—						
Phosphate-rock	109,878	88,146	89,191	66,836	56,632	54,997
Superphosphates—						
Single	55,500	40,619	12,454	8,655	20,534	14,012
Concentrated	56,776	105,958	49,327	61,850	51,376	43,502
Calcined phosphates	687	3,314	362	1,062	2,809	2,046
Di-calcium phosphate	1,860	2,104	747	2,566	2,708	2,879
Basic slag	12,676	10,228	3,083	2,896	4,310	2,262
Chile—						
Superphosphates	1,968	8,356	r 14,401	r 21,954	35,128	n.a.
Basic slag	—	591	4,886	4,267	13,585	n.a.
Di-calcium phosphates	11,692	17,250	21,057	21,241	35,137	n.a.
Other phosphatic fertilizers	—	9,608	3,556	2,610	18,556	n.a.
Colombia—						
Phosphate-rock	3,656	1,494	1,397	2,396	3,347	8,191
Superphosphates	27,898	11,572	1,578	8,477	4,351	13,983
Di-calcium phosphates	26,362	24,189	21,101	21,965	31,354	9,623
Peru—						
Phosphate-rock	2,936	1,427	11,530	14,461	11,993	13,119
Phosphatic fertilizers	6,219	998	72	1,975	2,568	3,472
Venezuela—						
Calcium phosphates and superphosphates	9,876	4,918	9,106	7,597	10,408	4,664
Formosa—						
Apatite	73,059	63,817	79,713	79,540	—	—
Phosphatic fertilizers	8,350	54,377	78,254	44,772	43,370	6,060
Indonesia—						
Superphosphates	24,959	26,114	18,328	22,204	121,553	n.a.
Phosphatic fertilizers	13,221	13,085	3,678	24,268	15,149	n.a.
Iraq—						
Phosphatic fertilizers	316	2,662	655	1,581	n.a.	n.a.
Japan—						
Phosphate-rock	1,532,086	1,483,589	1,695,122	2,013,932	2,070,072	1,864,237
Jordan—						
Phosphatic fertilizers	2,130	1,140	1,057	2,811	722	2,219
Korea (South)—						
Superphosphates	n.a.	144,421	83,305	121,925	46,530	55,479
Lebanon—						
Phosphatic fertilizers	14,267	10,501	17,836	9,566	8,641	8,394
Philippine Republic—						
Phosphate-rock	n.a.	9,693	12,489	6,248	10,185	12,292
Superphosphates	3,005	897	498	—	—	1,493
Ammonium phosphate	39,840	2,781	24,364	21,301	24,858	19,708
Other phosphatic fertilizers	n.a.	18,702	7,895	7,720	17,086	52,430
Syria—						
Phosphatic fertilizers	4,282	4,615	4,274	14,884	27,940	13,852
Thailand—						
Superphosphates	689	569	1,038	858	788	2,783
Phosphatic fertilizers	4,191	3,265	10,941	7,519	11,317	—
Turkey—						
Phosphate-rock	5,920	12,421	31,051	18,433	18,572	32,823
Superphosphates	—	—	3,265	—	36,659	37,996
Vietnam (South)—						
Phosphatic fertilizers	2,318	5,016	5,752	5,707	6,084	8,078

PLATINUM
PRODUCTION OF PLATINUM METALS

Troy ounces

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Sierra Leone—						
Crude platinum	(a) 5	(a) 8	—	—	—	—
Canada—						
Recovered from Ontario nickel-copper ores (c)—						
Platinum	199,565	146,092	150,382	} 483,604	418,278	470,787
Other platinum metals	216,582	154,366	177,713			
Australia—						
New South Wales—						
Concentrates (Pt content)	17	22	—	4	2	—
Tasmania—						
Osmiridium	67	42	3	—	—	—
New Guinea—						
Platinum	14	28	19	4	5	4
OTHER COUNTRIES						
U.S.S.R.—						
Crude platinum (d)	250,000	250,000	300,000	330,000	350,000	375,000
Congo Republic—						
Platinum	25	32	—	—	—	—
Palladium	300	129	—	—	—	—
Ethiopia—						
Crude platinum	248	180	68	189	180	180
South Africa—						
Crude and matte (Pt metals content)	603,704	(d) 300,000	(d) 375,000	(d) 375,000	(d) 400,000	(d) 300,000
Osmiridium (crude) (b)	5,361	(f) 4,873	(f) 4,843	(f) 6,334	(d) 7,000	(d) 6,000
United States (e)—						
New platinum metals recovered by refineries from crude platinum and gold and copper ores of domestic origin						
Platinum	12,488	9,025	9,791	10,232	17,155	14,244
Palladium	3,882	4,291	4,179	8,274	22,668	14,141
Iridium, osmiridium, etc.	2,438	2,346	1,045	1,860	2,669	1,419

(a) Exports.

(b) It is estimated by the Department of Mines, South Africa, that the osmiridium sold contained the following amounts of the metals mentioned below (fine ounces):

	1957	1958	1959	1960	1961	1962
Osmium	2,068	n.a.	n.a.	n.a.	n.a.	n.a.
Iridium	1,837	n.a.	n.a.	n.a.	n.a.	n.a.
Ruthenium	877	n.a.	n.a.	n.a.	n.a.	n.a.
Platinum	718	n.a.	n.a.	n.a.	n.a.	n.a.
Rhodium	81	n.a.	n.a.	n.a.	n.a.	n.a.

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

(d) United States Bureau of Mines' estimate.

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

	1957	1958	1959	1960	1961	1962
Platinum	49,022	36,426	58,945	33,861	51,218	71,817
Palladium	31,294	38,883	68,279	35,465	32,451	56,273
Iridium	1,406	1,223	1,188	914	193	767
Other platinum metals	5,799	4,982	7,584	2,109	2,210	3,245

(f) Sales.

PRODUCTION OF PLATINUM METALS (cont.)

Troy ounces

Producing Country	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Colombia (a)—						
Crude platinum ..	19,830	16,036	18,322	16,923	20,232	14,100
Japan—						
Platinum	354	442	470	1,396	2,247	1,872
Palladium	233	240	324	563	1,550	1,372
Iridium	3,000	600	—	<i>n.a.</i>	<i>n.a.</i>	—
Philippine Republic—						
Platinum	—	—	—	—	177	172
Palladium	—	—	—	—	215	141
WORLD'S TOTAL (b)	1,320,000	900,000	1,000,000	1,300,000	1,200,000	1,200,000

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

(b) Estimated.

EXPORTS OF PLATINUM*

Troy ounces

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Platinum—						
Ingots, grain and powder	268,318	249,860	278,534	311,617	307,461	253,320
Other kinds (a)	144,334	25,617	34,740	37,583	39,616	58,018
Other platinum metals and alloys	191,544	146,064	145,840	308,309	363,471	259,998
Sierra Leone—						
Crude platinum	5	8	—	—	—	—
Canada—						
Concentrates, etc. (b)	(£6,581,378)	(£3,707,218)	357,898	403,240	626,876	542,985
Platinum metals	n.a.	n.a.	n.a.	n.a.	4,619	28,262
Scrap	1,250	295	995	701	n.a.	n.a.
Hong Kong—						
Platinum and platinum group metals	(£12,448)	(£923)	—	251	223	643
Australia (c)—						
Platinum and platinum group metals	569	862	57	369	677	101
OTHER COUNTRIES						
Austria—						
Unwrought platinum and platinum metals	4,051	6,141	611	12,700	1,157	579
Denmark—						
Rods, sheets, wire, scrap, etc.	900	804	—	32	n.a.	—
France—						
Unwrought platinum and scrap (a)	55,717	10,931	12,828	4,861	6,714	14,277
Palladium (incl. scrap)(a)	12,057	44,529	9,227	4,694	7,748	8,809
Drawn or rolled platinum	85,810	8,263	8,713	7,052	16,886	17,573
Germany (Federal)—						
Platinum metals (a)	39,376	129,526	69,145	61,491	90,439	123,041
Italy—						
Unwrought platinum	64	5,948	—	3,086	15,175	11,831
Netherlands—						
Unwrought platinum and platinum metals	639,800	75,393	63,787	5,787	21,541	8,359
Drawn or rolled	89,186	54,045	112,881	38,420	46,554	33,083
Norway—						
Platinum (incl. scrap)	9,034	13,568	21,380	15,465	10,706	15,786
Sweden—						
Unwrought platinum	8,423	262,800	n.a.	n.a.	n.a.	n.a.
Switzerland—						
Unwrought platinum	7,845	3,215	2,186	3,054	3,151	7,105

*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	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES (cont.)						
U.S.S.R.	(a)	(a)	(a)	(a)	(a)	(a)
South Africa—						
Crude platinum metals	364,109	} (£3,700,563)	} (£4,339,441)	} (£8,617,784)	} (£8,700,183)	} (£6,639,594)
Osmiridium	6,138					
United States—						
Ores, etc. (<i>Pt content</i>) . .	—	} 35,075	} 18,560	} 49,497	} 41,385	} 49,651
Ingots, sheets, wire, etc.	17,199					
Palladium, rhodium, etc. and alloys	23,155					
Colombia—						
Platinum	19,830	16,036	18,322	16,923	20,232	14,100

(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):

	1957	1958	1959	1960	1961	1962
United Kingdom	28,074	52,529	47,790	23,357	23,378	13,889
France	—	22,505	7,941	25,688	49,470	87,808
Germany (Federal)	35,289	107,433	108,156	127,778	113,653	141,017
Netherlands	52,727	24,499	20,834	20,448	30,479	27,264
United States	24,810	93,583	130,413	111,105	227,632	113,989
Japan	1,603	47,072	56,725	66,842	100,905	127,171

IMPORTS OF PLATINUM*

Troy ounces

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom— Ores and concentrates	(£17,754,347)	(£8,703,882)	(£9,957,176)	(£15,796,200)	<i>n.a.</i>	<i>n.a.</i>
Platinum and platinum group metals	177,498	99,875	101,755	76,033	89,344	99,373
Canada— Platinum and platinum group metals	(£1,981,134)	(£1,372,800) ^b	(£821,828)	(£1,671,639)	(£500,864)	(£1,432,386)
Hong Kong— Platinum and platinum group metals	(£110,444)	(£114,722)	6,714	5,470	5,811	11,275
India— Platinum	2,450	2,176	2,135	(a) 1,607	(a) 2,827	(a) 2,117
Malaya— Unwrought platinum ..	<i>r</i> 290	<i>r</i> 90	<i>r</i> 12,900	<i>r</i> 40	430	220
Australia (c)— Platinum bars, rods, sheets, etc.	515	63	229	604	784	362
Bars, rods, sheets, etc. of other platinum metals	984	1,872	666	2,017	1,937	22
Platinum metal powder	927	1,926	1,102	5,780	669	1,071
New Zealand— Platinum and platinum group metals	1,200	<i>r</i> 1,663	1,415	2,027	2,874	2,763
OTHER COUNTRIES						
Austria— Unwrought platinum and platinum metals	3,601	2,315	1,672	7,877	2,379	997
Denmark— Rods, sheets, wire and scrap	1,254	1,736	1,318	2,058	1,640	1,800
Finland— Unwrought platinum etc.	871	1,653	5,057	6,398	8,809	21,380
France— Unwrought platinum, alloys and scrap ..	162,522	56,360	68,642	63,057	87,319	101,198
Unwrought palladium, alloys and scrap ..	42,471	60,122	77,676	29,096	31,218	52,084
Drawn or rolled platinum	1,093	96	64	378	703	10,352
Germany (Federal)— Platinum metals and alloys	124,021	194,188	187,344	224,910	219,439	215,803
Italy— Unwrought platinum ..	6,462	8,198	11,381	15,593	33,823	33,790
Drawn or rolled ..	3,440	2,990	4,790	4,180	31,894	11,060
Other platinum metals	19,226	23,888	15,175	11,896	20,416	33,983
Netherlands— Unwrought platinum and platinum metals ..	105,454	64,559	150,433	57,646	66,359	48,194
Drawn or rolled ..	23,502	7,073	8,777	6,623	11,639	12,732
Norway— Unwrought platinum ..	2,347	2,476	2,765	6,945	2,218	1,640
Drawn or rolled ..	129	261	22,698	1,254	1,198	1,244
Portugal— Sheets, wire, etc. ..	31	236	144	12	41	130

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

(a) Years ended March 31 following that stated.

(c) Years ended June 30 of that stated.

(b) Excess of re-exports.

IMPORTS OF PLATINUM (cont.)

Troy ounces

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Spain—						
Bars, sheets, wire, etc. . .	19	39	965	1,039	6,559	4,083
Sweden—						
Unwrought platinum ..	739	3,408	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Switzerland—						
Unwrought platinum ..	21,702	15,272	23,599	24,402	26,524	32,569
Yugoslavia—						
Unwrought platinum ..	5,080	13,214	9,163	4,115	9,227	15,754
Egypt—						
Ingots, bars, sheets, etc.	—	10	4	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
South Africa—						
Platinum	352	541	512	1,243	845	2,403
Cuba—						
Ingots and bars ..	—	64	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Palladium	161	2,765	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Mexico—						
Platinum	72	249	263	204	240	149
Palladium	285	1,256	2,241	2,063	2,088	3,679
United States—						
Ore (a)	1,572	—	503	401	568	—
Grains and nuggets (a) ..	26,328	21,635	77,763	30,338	22,997	23,366
Sponge and scrap (a) (b)	128,975	112,739	58,764	134,122	110,057	417,575
Ingots, bars, sheets (a) (b)	179,349	148,191	205,890	107,273	138,352	93,202
Iridium	1,431	1,156	7,772	4,253	4,366	9,001
Osmium and osmiridium	2,977	1,595	3,344	277	3,067	1,086
Palladium	327,558	360,077	610,740	368,256	571,693	431,872
Rhodium and ruthenium	18,493	25,038	44,021	35,719	26,363	38,622
Brazil—						
Unwrought platinum ..	1,270	1,350	96	36	514	7,268
Palladium	305	1,093	—	23	900	1,125
Colombia—						
Unwrought platinum ..	—	—	—	129	1,254	932
Uruguay—						
Platinum metals ..	193	12	148	597	<i>n.a.</i>	<i>n.a.</i>
Venezuela—						
Unwrought platinum ..	2,090	9,099	1,575	53,049	3,762	13,310
Japan—						
Platinum	32,978	60,401	74,355	73,155	95,193	133,843
Palladium	22,119	32,526	46,296	56,465	96,541	87,494
Rhodium	767	870	2,530	2,199	1,605	1,711
Iridium, etc.	3,337	1,224	1,610	1,827	1,489	2,666
Lebanon—						
Unwrought platinum ..	3,472	5,754	4,783	3,903	2,861	<i>n.a.</i>
Turkey—						
Sheets	—	643	—	—	900	<i>n.a.</i>

 (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:

	1957	1958	1959	1960	1961	1962
Sponge and scrap ..	2,043	13,167	5,666	3,905	11,550	6,185
Platinum metal ..	301,611	247,763	260,524	238,307	236,859	210,220

**POTASH MINERALS
PRODUCTION OF POTASH**

Long tons

Producing Country and Description	1957	1958	1959	1960	1961	1962	K ₂ O Content or Equivalent					
							1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES												
Canada—												
Potash salts	—	—	n.a.	—	—	n.a.	—	41,500	—	—	—	c 130,000
OTHER COUNTRIES												
France (b)—												
Sylvinitic, 12-22% K ₂ O							26,896	40,590	46,843	37,773	41,391	47,151
Fertilizer salts							296,840	199,514	124,047	153,175	124,887	138,112
30-40% K ₂ O ..	8,695,655	9,230,061	9,382,550	9,788,231	10,717,502	n.a.	1,056,018	1,213,599	1,267,920	1,316,764	1,516,573	1,509,344
Chloride												
50% K ₂ O and over												
Germany—												
Federal Republic—	15,944,000	16,401,000	17,147,000	18,347,418	19,200,561	18,121,975	1,956,000	1,987,000	2,110,000	2,279,608	2,361,889	2,227,977
Kainite, sylvinitic, etc.												
Eastern—												
Potash salts	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	1,579,000	1,624,000	1,618,000	1,640,000	1,649,000	1,724,000
Italy—							150	r 9,100	r 9,600	41,000	114,000	n.a.
Crude potash salts ..	1,088	64,903	75,208	r 326,272	849,009	n.a.						
Netherlands (a)—												
Potassium chloride (over												
45% K ₂ O)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	400	400	600	700	400	400
Potassium sulphate ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	100	200	200	100	200	200

(a) Years ended June 30 of that stated.

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

(c) United States Bureau of Mines' estimate.

PRODUCTION OF POTASH (cont.)

Producing Country and Description	K ₂ O Content or Equivalent						Long tons
	1957	1958	1959	1960	1961	1962	
OTHER COUNTRIES (cont.)							
Poland—							
Potash salts	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Spain—							
Carnallite, sylvinite, etc. 1,392,816	1,516,412	1,570,962	1,642,926	1,695,397	n.a.	231,812	231,812
U.S.R. (a)	n.a.	n.a.	n.a.	n.a.	n.a.	1,470,000	1,470,000
Potash salts	n.a.	n.a.	n.a.	n.a.	n.a.	1,299,000	1,299,000
United States—							
Potash salts (b)	3,429,000	3,601,000	3,993,000	4,133,000	4,133,000	3,721,000	2,190,108
Chile—							
Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	17,447	17,447
Israel—							
Chloride	77,002	105,507	103,150	c/d130,000	c/d140,000	c/d150,000	89,500
Japan—							
Alumite	6,533	6,494	2,747	2,470	1,784	—	—
WORLD'S TOTAL (c)	8,100,000	8,300,000	8,700,000	9,300,000	9,900,000	9,900,000	9,900,000

(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	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Nitrate	734	125	25	48	255	35
Sulphate						
Other compounds	3,079	2,846	3,678	4,312	4,117	4,473
Hong Kong—						
Nitrate	320	368	356	190	286	307
Chlorate	239	373	265	242	340	343
India—						
Nitrate	6	16	44	(a) 39	(a) 8	(a) 8
Malaya—						
Fertilizer salts	47	42	68	95	139	130
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Fertilizer salts	930	765	212	2,029	3,962	595
Carbonate	1,980	2,260	2,754	2,775	1,469	2,496
Caustic potash	3,472	5,022	5,918	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Chloride	681,632	714,323	701,031	766,860	795,950	770,048
Chlorates	—	1	—	—	—	1
Nitrate	33	32	25	36	—	1
Sulphate	201,743	240,532	236,885	265,584	279,715	250,789
Finland—						
Chlorate	119	27	109	48	77	39
France—						
Sylvinite, etc.	339,216	368,607	314,330	276,792	240,880	137,666
Carbonate	9,140	7,265	9,123	12,165	13,916	13,154
Caustic potash	9,325	8,114	13,139	10,126	9,820	11,111
Chlorate	539	948	932	903	1,198	1,055
Chloride	769,935	795,688	800,778	1,094,430	1,228,067	1,028,710
Sulphate	185,386	185,927	231,269	38,739	10,830	13,291
Nitrate	3,072	2,876	2,149	1,653	2,079	2,322
Germany (Federal)—						
Fertilizer salts	1,347,538	1,233,852	1,370,091	1,568,379	1,650,061	1,343,640
Carbonate	3,584	4,260	5,432	6,864	7,485	6,984
Caustic potash	3,556	3,791	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Chlorate	760	233	61	351	736	597
Nitrate	8,476	11,790	9,633	13,082	11,582	12,254
Germany (East)—						
Fertilizer salts						
(<i>K₂O</i> content)	961,000	970,000	1,025,000	1,075,000	1,030,000	1,129,000
Carbonate	9,918	10,543	9,511	8,753	7,946	9,614
Caustic potash	7,731	8,374	7,144	6,563	5,904	5,640
Italy—						
Nitrate	12	264	235	606	971	925
Caustic potash	31	1	49	1,417	1,750	3,455
Sulphate	1	84	59	5,116	58,304	55,362
Netherlands—						
Carbonate	1,224	274	220	101	57	93
Caustic potash	6	23	7	17	10	10
Chloride	580	779	916	1,267	643	738
Nitrate	31	65	53	68	84	134
Sulphate	17	98	405	362	233	373
Poland—						
Caustic potash	<i>n.a.</i>	814	1,197	1,170	1,729	<i>n.a.</i>
Chlorate	<i>n.a.</i>	188	470	459	739	<i>n.a.</i>
Portugal—						
Chloride	843	200	27	850	161	94
Spain—						
Chloride	323,462	260,495	290,861	354,176	288,349	225,113

(a) Years ended March 31 following that stated.

EXPORTS OF POTASH SALTS (cont.)

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Sweden—						
Carbonate	18	4	—	4	—	1
Caustic potash	1,723	1,918	2,441	2,703	2,491	2,278
Switzerland—						
Nitrate (crude)	3,946	2,927	15	—	—	—
U.S.S.R.—						
Fertilizer salts	217,700	388,400	431,800	619,000	749,600	863,800
United States—						
Chloride	358,565	414,969	471,348	698,323	644,614	717,856
Other fertilizer salts	51,880	28,607	28,653	29,821	48,981	39,241
Caustic potash	2,958	3,299	3,362	3,262	2,087	3,246
Other compounds	3,765	5,301	6,746	11,296	23,927	8,223
Chile—						
Nitrate	51,313	54,635	86,018	53,545	67,301	<i>n.a.</i>
Israel—						
Fertilizer salts	75,267	77,917	102,571	118,549	72,264	<i>n.a.</i>
Chloride				985	80,368	<i>n.a.</i>
Japan—						
Chlorate	427	766	680	539	688	873
Chloride	2,931	1,005	1,498	1,850	6,604	3,520
Sulphate	874	24	59	2,291	2,153	105

IMPORTS OF POTASH SALTS

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Fertilizer salts	36,693	38,378	43,564	41,976	52,997	52,165
Carbonate	5,367	5,168	4,819	6,943	5,535	4,719
Caustic potash and lyes	1,550	1,660	1,833	2,042	1,937	1,832
Chlorate	1,179	1,106	960	1,099	1,031	1,077
Chloride	537,290	581,713	610,400	711,972	693,156	666,464
Nitrate	1,205	2,639	2,740	2,683	3,368	3,434
Sulphate	15,642	16,143	25,026	22,819	21,710	23,995
Other compounds	1,841	1,073	7,046	4,056	3,210	6,557
Ghana—						
Fertilizer salts	120	92	254	510	672	455
Kenya—						
Fertilizer salts	796	11	—	80	30	28
Mauritius—						
Fertilizer salts	7,147	7,751	8,527	9,296	8,450	11,143
Nigeria—						
Fertilizer salts	79	1,040	703	1,799	1,394	1,342
Rhodesia and Nyasaland—						
Fertilizer salts	19,112	16,247	22,987	28,958	28,973	26,263
Compounds	406	267	353	529	351	680
Tanganyika—						
Fertilizer salts	727	610	536	609	537	667
Uganda—						
Fertilizer salts	21	305	191	136	521	2,835
Canada—						
Caustic potash	3,260	3,946	3,788	3,937	1,524	1,482
Chlorate	64	36	39	35	45	52
Crude chloride	122,005	117,236	85,089	130,969	151,587	132,119
Nitrate	467	607	662	662	818	815
Crude sulphate	15,823	13,874	22,091	21,378	23,641	21,412
Other compounds	3,376	3,599	5,091	6,321	6,393	5,922
Antigua—						
Fertilizer salts	<i>n.a.</i>	<i>n.a.</i>	—	92	5	2,928
Barbados—						
Fertilizer salts	6,570	2,881	4,325	3,585	6,535	3,372
Grenada—						
Fertilizer salts	68	108	254	153	266	<i>n.a.</i>
Jamaica—						
Fertilizer salts	3,641	3,848	5,809	4,539	5,434	2,121
St. Vincent—						
Chloride	68	519	178	27	7	7
Trinidad and Tobago—						
Chloride and sulphate ..	2,966	1,978	2,758	1,794	3,300	2,755
British Guiana—						
Fertilizer salts	1,604	3,261	4,663	2,355	3,625	<i>n.a.</i>
Ceylon—						
Kainite and sylvinite ..	500	50	331	245	417	100
Chloride	38,345	35,080	42,596	39,054	47,483	38,516
Nitrate of potash refuse	6	2	3	28	2	108
Sulphate	695	400	870	2,750	315	120
Cyprus—						
Fertilizer salts	108	268	390	512	507	468
Hong Kong—						
Nitrate	595	1,079	621	378	585	991
Chlorate	273	316	371	281	430	442
Other fertilizer salts ..	13	14	530	620	331	47
India—						
Fertilizer salts	—	6,011	—	(a) —	(a) —	(a) —
Carbonate	835	652	1,015	(a) 630	(a) 1,207	(a) 1,227
Caustic potash	454	703	1,553	(a) 2,222	(a) 2,488	(a) 2,480
Nitrate	40	—	5	(a) 11	(a) 6	(a) 19
Sulphate	13,973	2,983	10,107	(a) 10,847	(a) 8,812	(a) 3,218
Chlorate	1,158	450	542	(a) 7	(a) 2	(a) —
Chloride	7,373	25,038	52,544	(a) 22,535	(a) 43,815	(a) 76,661

(a) Years ended March 31 following that stated.

IMPORTS OF POTASH SALTS (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES (cont.)						
Malaya—						
Fertilizer salts	9,484	10,951	13,865	r 16,538	13,001	15,285
North Borneo—						
Fertilizer salts	108	21	336	118	157	155
Pakistan—						
Chlorate	424	538	300	516	694	599
Other compounds	497	193	204	766	n.a.	n.a.
Sarawak—						
Fertilizer salts	126	26	47	25	30	552
Australia (a)—						
Carbonate	622	771	863	1,117	679	774
Caustic potash	1,349	636	958	981	805	898
Chloride	34,399	48,786	38,044	31,573	45,109	65,214
Nitrate	347	470	354	451	519	355
Sulphate	3,845	4,793	5,708	4,574	7,417	8,842
Other compounds	462	543	827	1,019	1,240	365
New Zealand—						
Chloride	38,908	r 52,088	r 73,016	82,383	120,366	96,945
Nitrate	80	138	144	128	196	116
Sulphate	2,616	r 2,900	r 2,641	3,422	3,595	2,687
Other fertilizer salts	—	75	13	140	248	7,873
Compounds other than fertilizer	314	294	317	300	340	241
Irish Republic—						
Fertilizer salts	670	1,089	1,653	1,753	3,082	3,343
Chloride	100,574	93,133	108,747	107,401	117,434	142,725
Other compounds	415	542	538	604	591	811
OTHER COUNTRIES						
Austria—						
Fertilizer salts	176,829	202,669	196,932	212,166	232,236	228,394
Caustic potash	369	431	358	429	397	385
Carbonate	846	786	908	763	968	821
Chloride	168	128	8,992	6,098	6,871	28,017
Nitrate	252	264	279	367	428	320
Sulphate	3	150	3,718	12,624	9,639	10,564
Belgium-Luxemburg						
E.U.—						
Fertilizer salts	201,948	193,424	158,864	185,644	223,108	190,310
Carbonate	567	536	663	1,084	866	997
Caustic potash	359	614	624	n.a.	n.a.	n.a.
Chlorates	607	423	542	544	591	298
Chloride	1,094,255	1,100,611	1,153,374	1,165,682	1,269,205	1,158,098
Nitrate	1,731	1,962	2,053	2,007	2,279	2,156
Sulphate (b)	15,243	21,511	10,932	17,682	24,246	20,837
Czechoslovakia—						
Fertilizer salts (K_2O content)	184,000	214,000	229,000	213,900	198,000	233,000
Denmark—						
Carbonate	329	378	317	304	379	363
Caustic potash	895	809	943	1,148	1,000	1,019
Chlorate	143	116	136	125	91	76
Chloride	312,810	294,454	303,945	326,710	371,940	281,323
Nitrate	913	956	843	1,188	879	1,034
Sulphate	1,883	1,702	1,434	1,874	1,833	2,238
Finland—						
Fertilizer salts	113,788	76,668	102,769	170,500	125,176	127,210
Carbonate	300	258	332	415	407	513
Caustic potash	123	226	188	168	215	301

(a) Years ended June 30 of that stated.

(b) Including patent potash.

IMPORTS OF POTASH SALTS (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
(cont.)						
Finland (cont.)—						
Chloride	1,974	1,481	1,501	n.a.	n.a.	n.a.
Nitrate	114	115	249	140	263	383
Sulphate	986	1,481	1,473	n.a.	6,765	9,681
France—						
Chloride	—	—	1	8,829	—	1,467
Sulphate	5,489	19,080	10,005	10,624	19,441	40,936
Caustic potash	42	38	47	113	70	74
Germany (Federal)—						
Fertilizer salts	—	—	22	27,412	27,934	36,327
Carbonate	—	—	70	409	1,439	1,678
Caustic potash	208	230	n.a.	572	621	718
Chlorate	103	355	631	650	599	1,074
Nitrate	79	186	331	337	756	1,069
Greece—						
Carbonate	765	1,369	913	610	677	1,076
Caustic potash	16	22	23	19	57	29
Nitrate	52	132	109	123	89	95
Sulphate	25,787	13,119	10,664	12,686	20,475	15,835
Hungary—						
Fertilizer salts	35,798	57,278	81,520	73,723	114,259	195,475
Iceland—						
Fertilizer salts	3,416	3,988	4,087	3,751	2,999	5,167
Carbonate	7	12	5	11	8	16
Caustic potash	23	28	42	35	30	53
Italy—						
Fertilizer salts	68,596	60,542	74,829	60,550	47,483	37,657
Carbonate	3,188	2,338	2,604	3,941	4,016	4,408
Caustic potash	3,449	2,723	2,901	2,518	1,678	1,411
Chloride	34,843	56,904	74,401	154,492	105,549	154,643
Nitrate	886	638	964	1,240	758	727
Sulphate	31,556	43,149	43,369	39,684	20,244	11,632
Netherlands—						
Kainite	48,568	45,538	46,427	39,228	23,098	22,271
Fertilizer salts						
(20% K ₂ O)	40,153	42,777	38,112	40,238	25,001	17,144
do. (40% K ₂ O)	239,698	230,638	219,990	194,019	152,510	120,810
Carbonate	4,169	4,975	5,207	6,950	5,156	6,306
Caustic potash	5,059	6,136	7,564	6,374	8,163	7,939
Chloride	39,731	47,385	52,158	67,947	89,881	104,518
Nitrate	1,827	1,470	1,755	1,293	1,841	2,477
Sulphate	28,385	28,798	26,113	47,326	46,291	64,275
Patent potash	43,718	55,374	48,997	49,363	44,296	44,093
Norway—						
Fertilizer salts	51,380	21,241	367	818	409	307
Carbonate	281	265	346	312	708	329
Caustic potash	1,079	973	1,182	1,323	1,276	1,265
Chlorate	144	130	131	154	132	137
Chloride	53,445	54,822	77,770	75,760	76,164	81,004
Nitrate	258	155	146	164	156	215
Sulphate	17,893	17,867	13,663	17,283	12,935	4,435
Poland—						
Fertilizer salts	n.a.	603,900	769,900	808,900	791,200	n.a.
Carbonate	n.a.	1,193	412	246	1,471	n.a.
Chloride	n.a.	10,009	7,821	9,457	11,538	n.a.
Sulphates	n.a.	n.a.	n.a.	2,183	2,911	n.a.
Portugal—						
Carbonate	109	103	89	125	62	144
Caustic potash	79	64	30	56	100	707
Chlorate	196	159	148	227	214	220
Chloride	15,109	11,763	13,888	9,818	14,003	13,890
Nitrate	309	415	377	321	402	291
Sulphate	1,425	1,181	2,893	544	1,595	1,132

IMPORTS OF POTASH SALTS (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Roumania—						
Fertilizer salts (c) ..	<i>n.a.</i>	1,100	1,100	3,900	11,800	10,100
Sweden—						
Fertilizer salts						
(40% K ₂ O)		530	825	2,057	448	736
do. (other) ..	157,069	130,027				
Carbonate	1,136	1,129	1,083	1,408	920	890
Caustic potash	336	332	204	287	212	260
Chloride	13,594	7,736	127,671	152,547	137,821	144,294
Nitrate	839	801	838	976	873	1,129
Sulphate	8,273	7,323	8,495	13,843	13,646	13,673
Switzerland—						
Fertilizer salts	67,026	79,292	70,836	102,369	96,104	101,437
Carbonate	1,399	1,236	2,043	1,995	1,760	2,114
Caustic potash	2,886	1,589	1,793	2,227	2,143	2,033
Chloride	13,393	15,936	21,230	(a)	(a)	(a)
Nitrate	(b) 641	(b) 938	(b) 2,035	737	560	768
Sulphate	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,331	1,037	950
U.S.S.R.—						
Caustic potash	2,600	2,500	3,000	4,300	3,100	2,700
Yugoslavia—						
Fertilizer salts	46,411	123,549	173,782	139,234	75,664	107,166
Caustic potash	<i>n.a.</i>	95	412	335	636	482
Chloride	87,039	72,050	10,224	27,749	35,226	13,367
Nitrate	—	10	—	—	—	—
Sulphate	3,174	1,191	2,822	2,574	4,234	4,178
Algeria—						
Chloride	12,340	14,817	13,449	12,233	<i>n.a.</i>	<i>n.a.</i>
Sulphate	7,085	10,859	8,112	9,753	<i>n.a.</i>	<i>n.a.</i>
Carbonate	12	1	36	32	<i>n.a.</i>	<i>n.a.</i>
Caustic potash	55	44	44	46	<i>n.a.</i>	<i>n.a.</i>
Nitrate	181	241	244	151	<i>n.a.</i>	<i>n.a.</i>
Angola—						
Chloride	32	9	267	229	553	457
Sulphate	75	180	195	226	200	79
Cameroun—						
Fertilizer salts	757	323	1,748	1,722	2,212	2,010
Canary Islands—						
Fertilizer salts	3,923	10	50	81	—	—
Egypt—						
Fertilizer salts	2,966	4,457	11,791	1,968	—	—
Carbonate	196	369	208	298	272	401
Caustic potash	172	136	75	256	383	37
Chlorate	195	196	223	268	256	<i>n.a.</i>
Malagasy Republic—						
Fertilizer salts	1,521	2,351	1,482	1,159	946	382
Morocco—						
Chloride	1,623	3,525	4,290	4,396	5,063	4,214
Sulphate	674	4,534	4,587	3,203	7,513	6,877
Reunion—						
Fertilizer salts	<i>n.a.</i>	6,125	2,421	1,951	2,154	755
South Africa—						
Fertilizer salts	6,811	3,085	5,723	r 58,888	65,169	80,305
Nitrate	243	195	199	329	605	849
Caustic potash	380	349	317	382	283	376
Chloride	31,739	43,358	57,449	2,992	—	—
Other compounds	1,127	1,046	878	1,235	1,147	1,248
Tunisia—						
Fertilizer salts	2,469	3,843	2,480	4,224	2,477	4,426
Caustic potash	6	11	4	13	2,340	2,203
Costa Rica—						
Fertilizer salts	3,270	1,345	352	550	968	3,000

(a) Included with fertilizer salts.

(b) Includes sodium nitrate.

 (c) K₂O content.

IMPORTS OF POTASH SALTS (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Cuba—						
Nitrate	10,304	7,972	953	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Chlorate	259	163	197	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Chloride	21,488	9,627	17,389	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sulphate	23,256	9,560	17,317	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Dominican Republic—						
Chloride	<i>n.a.</i>	<i>n.a.</i>	1,630	3,344	4,348	<i>n.a.</i>
French West Indies—						
Guadeloupe—						
Fertilizer salts	<i>n.a.</i>	<i>n.a.</i>	10,971	11,071	7,235	5,788
Martinique—						
Fertilizer salts	<i>n.a.</i>	<i>n.a.</i>	8,703	9,114	7,686	6,059
Guatemala—						
Fertilizer salts	<i>n.a.</i>	<i>n.a.</i>	1,202	745	82	68
Chlorate	81	88	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Nitrate	8	60	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Caustic potash	11	14	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Honduras—						
Fertilizer salts	125	47	48	24	88	1,820
Mexico—						
Carbonate	254	267	361	353	440	476
Chloride	8,222	16,384	12,209	9,878	13,981	20,790
Caustic potash	234	284	202	375	482	533
Sulphate	414	1,034	1,559	1,480	100	11
Nicaragua—						
Fertilizer salts	201	229	104	128	165	444
Panama Republic—						
Fertilizer salts	<i>n.a.</i>	241	288	281	450	<i>n.a.</i>
Salvador—						
Fertilizer salts	<i>n.a.</i>	<i>n.a.</i>	1,411	2,616	1,083	902
United States—						
Carbonate	5	197	152	536	159	103
Caustic potash	239	483	621	594	856	1,125
Chlorates	329	417	470	415	392	601
Chloride	226,799	266,379	299,814	292,433	296,343	413,508
Cyanide	702	719	653	792	681	945
Nitrate	2,011	2,314	2,080	<i>r</i> 2,739	3,961	6,761
Potassium-sodium						
nitrate mixtures	22,672	20,989	32,561	<i>r</i> 16,636	12,322	26,344
Sulphate	43,876	58,770	117,280	58,133	80,512	99,322
Argentina—						
Carbonate	354	128	392	580	561	235
Caustic potash	170	285	503	543	484	432
Chlorate	562	515	541	596	1,096	419
Nitrate	—	—	15	156	68	2
Sulphate	535	621	25	85	355	98
Brazil—						
Caustic potash	170	120	573	592	553	907
Nitrate	909	494	602	1,337	749	802
Nitrate of potash and						
soda	11,379	—	7,690	15,841	2,989	12,104
Chloride	92,781	99,320	89,048	166,491	109,374	104,082
Sulphate	4,968	9,339	4,811	6,197	7,333	6,266
Carbonate	230	404	464	543	523	541
Chlorate	308	3	—	—	20	—
Chile—						
Caustic potash	84	165	181	201	<i>n.a.</i>	<i>n.a.</i>
Chlorate	132	119	144	79	<i>n.a.</i>	<i>n.a.</i>
Chloride	3,666	10,103	9,762	394	<i>n.a.</i>	<i>n.a.</i>
Sulphate	4,929	2,652	2,245	3,785	8,411	<i>n.a.</i>

IMPORTS OF POTASH SALTS (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Colombia—						
Chlorate	267	264	206	207	370	224
Chloride	10,639	22,067	11,348	12,746	14,671	15,691
Nitrate	267	283	222	205	247	208
Sulphate	2,231	5,789	2,766	3,592	3,710	1,771
Other fertilizer salts ..	44	179	49	99	143	—
Peru—						
Fertilizer salts	1,480	3,054	2,190	3,617	2,364	4,045
Nitrate	66	71	78	129	76	62
Carbonate	62	21	68	43	28	45
Chloride	16	39	30	28	24	110
Caustic potash	105	39	16	29	27	34
Uruguay—						
Nitrate	595	914	2	111	<i>n.a.</i>	<i>n.a.</i>
Caustic potash	307	338	408	443	<i>n.a.</i>	<i>n.a.</i>
Venezuela—						
Carbonate	27	19	39	37	69	61
Chlorate	45	136	153	164	317	164
Chloride	1,696	5,027	1,084	2,540	2,740	1,970
Nitrate	126	51	158	137	172	105
Sulphate	3,940	—	2,003	7,363	7,021	5,746
Formosa—						
Fertilizer salts	23,613	48,867	19,841	76,862	42,792	49,878
Indonesia—						
Fertilizer salts	5,410	4,094	18,244	18,311	13,434	<i>n.a.</i>
Nitrate	199	142	219	181	76	<i>n.a.</i>
Iraq—						
Fertilizer salts	89	405	246	344	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Kainite, etc.	—	—	50	—	492	1,279
Chloride	487,622	578,215	671,237	903,292	918,040	691,305
Sulphate	134,302	89,433	117,605	87,243	136,189	38,398
Jordan—						
Fertilizer salts	<i>n.a.</i>	936	1,166	2,001	1,648	766
Korea (South)—						
Chloride	<i>n.a.</i>	7,240	—	7,468	1	8,084
Lebanon—						
Fertilizer salts	2,651	2,513	3,699	3,700	3,792	<i>n.a.</i>
Philippine Republic—						
Caustic potash	59	75	15	65	<i>n.a.</i>	<i>n.a.</i>
Chlorate	629	565	612	711	<i>n.a.</i>	<i>n.a.</i>
Nitrate	1,482	105	989	3,512	<i>n.a.</i>	<i>n.a.</i>
Sulphate	1,769	1,064	1,359	2,814	<i>n.a.</i>	2,686
Other fertilizer salts ..	<i>n.a.</i>	9,863	18,185	13,700	33,855	40,156
Thailand—						
Chlorate	323	326	201	295	177	301
Chloride	325	116	238	415	64	72
Nitrate	1,052	823	829	787	705	743
Sulphate	148	246	794	463	305	886
Turkey—						
Carbonate	1,621	496	1,411	1,125	1,687	1,150
Caustic potash	368	275	456	213	379	363
Chlorates	114	105	810	158	70	221
Sulphate	26	5,413	7,992	1	31	1,547
Vietnam (South)—						
Fertilizer salts	4,693	5,221	8,625	7,666	15,399	7,597

PYRITES

PRODUCTION OF PYRITES

(see also Sulphur)

(including Cupreous Pyrites)

Long tons

Producing Country	Estimated Sulphur Content						1962	1961	1960	1959	1960	1961	1962
	1957	1958	1959	1960	1961	1962							
COMMONWEALTH COUNTRIES													
United Kingdom..	3,597	3,202	776	132	164	26,872	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Southern Rhodesia	19,986	58,268	40,237	49,298	58,442	50,456	7,600	r 15,300	r 18,700	r 18,700	22,200	22,200	19,200
Canada (c)	1,041,443	1,064,046	981,754	921,686	461,837	475,073	459,907	r 415,724	r 390,884	r 390,884	223,000	223,000	236,000
Cyprus (a)	1,081,357	1,010,000	869,864	r 914,232	824,771	809,263	527,000	487,000	445,000	445,000	398,000	398,000	388,000
India	—	—	15	—	—	—	—	—	—	—	—	—	—
Australia (b)	229,125	226,744	223,004	238,630	213,423	194,822	109,000	108,600	106,900	114,500	102,100	102,100	90,900
TOTAL	2,375,508	2,362,000	2,115,650	r2,123,978	1,558,637	1,556,486	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Irish Republic	n.a.	4,873	3,930	21,666	49,921	37,229	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
OTHER COUNTRIES													
Bulgaria (b)	88,685	82,713	112,789	116,638	120,000	d 121,000	37,000	35,000	47,000	49,000	50,000	50,000	51,000
Czechoslovakia (b)	364,000	379,000	365,000	384,000	363,000	395,000	136,000	141,000	144,000	149,000	141,000	141,000	153,000
Finland (b)	292,461	249,000	259,000	295,000	265,000	463,000	124,000	105,000	109,000	107,000	112,000	112,000	213,000
France (e)	318,508	327,329	289,738	272,717	280,930	299,153	138,693	141,200	120,802	116,562	117,769	117,769	124,592
Germany (Federal)	596,223	556,553	462,123	528,987	525,000	404,000	237,166	223,875	188,863	209,508	221,000	221,000	173,000
Germany (East)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	53,000	51,000	49,000	46,000	40,000	40,000	41,000
Greece	230,775	160,304	127,050	161,407	184,917	(d)197,000	101,000	75,000	59,000	75,000	86,000	86,000	89,000
Italy	1,448,167	1,490,413	1,496,373	1,522,613	1,555,229	1,559,499	652,000	r 679,000	r 682,000	r 694,000	709,000	709,000	711,000
Norway	830,207	780,286	732,410	819,562	721,808	797,077	360,000	339,000	320,000	356,000	319,000	319,000	355,000
Poland	207,000	208,000	217,000	223,000	198,000	219,000	76,000	75,000	79,000	83,000	76,000	76,000	82,000
Portugal	656,237	588,719	621,572	644,578	642,609	631,164	301,869	270,810	285,923	296,506	295,600	295,600	290,336
Roumania	174,000	202,000	231,000	263,000	259,000	(d)259,000	70,000	81,000	93,000	105,000	103,000	103,000	103,000

(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) United States Bureau of Mines' estimate.

(e) In addition the sulphur content of mispickel and auriferous pyrites was as follows (long tons): 1957—6,993; 1958—7,517; 1959—9,102; 1960—8,988; 1961—8,217; 1962—9,018.

PRODUCTION OF PYRITES (cont.)

Producing Country	1957	1958	1959	1960	1961	1962	Estimated Sulphur Content					Long tons
							1957	1958	1959	1960	1961		1962
OTHER COUNTRIES												
(cont.)												
Spain	2,224,584	2,014,052	2,086,086	2,217,233	2,096,877	2,119,000	1,041,300	931,000	961,000	1,053,000	1,001,000	1,017,000
Sweden	493,714	329,472	341,397	r 406,361	435,500	n.a.	244,595	162,766	171,616	205,591	210,000	n.a.
Yugoslavia (a)	307,663	326,000	285,000	410,000	358,000	407,000	138,000	147,000	128,000	185,000	161,000	183,000
Algeria	18,500	24,261	28,591	37,892	48,085	42,000	8,300	11,137	13,300	17,400	22,000	19,000
Morocco	6,161	18,159	14,190	13,226	13,855	20,417	2,000	6,000	5,000	5,000	5,000	7,000
South Africa	388,216	493,184	495,388	492,173	439,751	434,030	160,000	205,000	195,000	212,000	176,000	174,000
Cuba	35,638	33,334	70,645	n.a.	—	—	n.a.	17,000	32,000	n.a.	—	—
United States (b)	1,067,396	974,114	1,056,617	1,016,263	987,309	915,890	436,012	403,373	436,871	416,213	398,519	379,046
Venezuela	59,318	r 13,917	r 4,193	—	—	—	14,000	4,000	1,000	—	—	—
Formosa	32,746	32,499	33,243	42,318	46,717	44,772	12,300	12,200	12,500	15,900	17,500	16,800
Japan	3,324,390	3,305,546	3,336,268	3,633,933	3,869,014	3,952,416	1,403,712	1,378,442	1,395,545	1,517,316	1,623,786	1,664,193
Korea (South)	541	277	506	1,058	723	—	n.a.	n.a.	n.a.	n.a.	300	—
Philippine Republic	17,566	18,693	24,791	25,000	50,776	55,409	7,900	8,000	9,900	11,900	24,000	27,000
Turkey	47,767	80,302	87,275	41,617	96,863	105,389	22,700	39,000	42,000	20,000	46,000	51,000
TOTAL*	13,300,000	12,700,000	12,900,000	13,500,000	13,600,000	13,900,000	—	—	—	—	—	—
WORLD'S TOTAL*	15,700,000	15,100,000	15,000,000	15,600,000	15,200,000	15,500,000	6,900,000	6,600,000	6,500,000	7,000,000	6,700,000	6,900,000

*Excluding pyrites known to have been produced in the U.S.S.R., Brazil, China and North Korea.

(a) Concentrates.

(b) Including by-product pyrites.

EXPORTS OF PYRITES

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Rhodesia and Nyasaland—						
Iron pyrites	19,662	33,824	1,972	—	—	—
Cyprus—						
Iron pyrites	762,501	819,835	659,370	815,412	822,263	790,020
Cupreous pyrites ..	226,334	228,821	307,026	248,931	138,477	105,622
OTHER COUNTRIES						
Austria	26,899	15,691	19,451	27,102	18,285	3,925
Belgium-Luxemburg						
E.U.	888	4,786	—	—	828	—
Finland—						
Concentrate	24,066	3,394	40,969	124,984	68,047	69,889
Germany (Federal) ..	10,925	6,250	6,643	1,225	591	1
Greece	183,884	79,088	35,792	51,882	16,643	46,710
Italy—						
Iron pyrites	99,923	153,837	} 164,721	232,912	223,990	155,768
Cupreous pyrites ..	1,699	1,959				
Norway	442,573	388,590	401,708	458,782	431,799	550,880
Portugal—						
Iron pyrites	292,332	351,749	350,932	336,879	260,980	287,469
Cupreous pyrites ..	3,220	1,910	2,077	1,967	2,241	2,102
Spain—						
Iron pyrites	1,384,942	1,061,651	982,010	} 1,206,407	1,017,327	1,006,004
Cupreous pyrites ..	38,128	58,431	41,391			
Sweden	99,541	67,683	35,542	28,916	40,169	23,511
U.S.S.R.	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	870,000	652,500	768,700
Yugoslavia	189,934	274,909	183,826	338,701	271,474	289,346
Algeria	—	—	10,383	16,849	31,953	34,144
Turkey	33,921	50,546	48,876	51,582	89,988	108,938

IMPORTS OF PYRITES

Long tons

Importing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom ..	356,830	245,147	213,448	269,981	267,719	281,527
Irish Republic	18,314	29,445	36,204	31,605	15,913	2,638
OTHER COUNTRIES						
Austria	95,503	64,719	46,513	64,699	53,094	30,126
Belgium-Luxemburg						
E.U.	275,944	262,552	265,988	422,917	331,394	313,586
Czechoslovakia	102,000	66,000	49,000	50,000	43,000	68,000
Denmark	131,523	133,731	127,693	150,184	124,156	134,388
France	436,118	493,633	444,501	473,394	464,090	432,379
Germany (Federal) ..	1,478,298	1,306,900	1,313,029	1,691,849	1,263,767	1,315,889
Germany (East) (a) ..	159,501	80,018	98,990	120,635	108,376	92,638
Hungary	133,571	101,996	112,309	122,626	100,077	91,660
Italy	318,466	217,972	154,422	300,377	523,877	679,026
Netherlands	360,885	328,119	373,584	372,737	289,661	245,552
Poland	<i>n.a.</i>	95,900	79,600	40,400	59,700	<i>n.a.</i>
Sweden	109,118	108,343	76,347	95,617	92,191	82,120
Switzerland	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	41,621	53,872	34,450
Algeria	14,299	14,343	2,286	—	<i>n.a.</i>	<i>n.a.</i>
Egypt	<i>n.a.</i>	<i>n.a.</i>	72,252	74,250	50,215	33,498
Morocco	2,273	1,470	1,457	—	—	—
Tunisia	7,643	9,063	8,971	4,500	6,520	3,861
United States	353,032	343,060	280,638	r 306,216	281,604	301,899

(a) S content.

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

Long tons

Producing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Nigeria—						
Monazite	93	57	13	12	7	10
Thorite (c)	1,054	53	<i>n.a.</i>	1	—	—
Canada—						
Thorium (e)	—	—	21	58	<i>n.a.</i>	<i>n.a.</i>
Ceylon—						
Monazite	134	111	84	330	213	—
Malaya (a)—						
Monazite	490	428	236	42	696	627
Australia (b)—						
High-grade concentrates	132	423	(h) 331	(h) 344	(h) 1,463	(h) 926
Low-grade concentrates	311	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
OTHER COUNTRIES						
Malagasy Republic—						
Monazite	295	—	—	420	448	627
Bastnaesite	1	—	—	—	—	<i>n.a.</i>
Uranothorianite (f)	355	477	572	498	404	500
Mozambique—						
Monazite	—	—	—	1	—	—
Rwanda and Burundi—						
Bastnaesite	236	3	—	—	—	—
South Africa—						
Monazite	(g) 8,316	(g) 7,243	(g) 2,145	—	—	(i) 4,755
United States (d)—						
Monazite, bastnaesite and thorite	<i>n.a.</i>	1,804	1,021	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Brazil—						
Monazite	<i>n.a.</i>	1,037	1,091	1,029	(h) 830	(h) 830
Indonesia—						
Monazite	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	99	137
Korea (South)—						
Monazite	350	317	58	12	1	674

Monazite is also produced in India but for security reasons figures are no longer published.

(a) Exports.

(b) Monazite content.

(c) Between 5% and 6% ThO₂.

(d) Shipments from mine.

(e) Obtained as a by-product during the treatment of uranium.

(f) Containing an average of 60% Th.

(g) Rare earths and thorium oxides content as follows :—

1957—49.53%; 1958—49.68%; 1959—51.15%.

(h) Estimated.

(i) 5.4% ThO₂

EXPORTS OF RARE EARTH MINERALS, ETC.

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Nigeria—						
Monazite	93	57	13	12	7	10
Thorite (a)	1,054	53	<i>n.a.</i>	1	—	—
Malaya—						
Monazite	490	428	236	42	696	623
Australia—						
Concentrates	145	102	150	158	1,802	1,460
OTHER COUNTRIES						
Austria—						
Salts of rare earth minerals	51	92	(b) 79	(b) 192	(b) 266	(b) 143
France—						
Salts of rare earth minerals	116	220	132	147	207	888
Rwanda and Burundi—						
Bastnaesite	185	18	—	1	<i>n.a.</i>	<i>n.a.</i>
Malagasy Republic—						
Monazite	295	—	—	360	404	535
Bastnaesite	1	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Uranothorianite	329	138	152	572	772	935
United States—						
Cerium ores, metals, etc.	6	13	12	7	3	2
Thorium ore, concentrates and compounds	<i>n.a.</i>	55	101	32	46	489
Brazil—						
Cerium chloride	985	196	1,061	2,272	1,369	906

 (a) Between 5% and 6% ThO₂.

(b) Including uranium salts.

IMPORTS OF RARE EARTH MINERALS, ETC.

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Rare earth compounds ..	211	105	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Canada—						
Thorium and cerium salts	(£27,020)	(£8,022)	(£16,206)	(£6,821)	(£10,892)	(£7,789)
OTHER COUNTRIES						
Austria—						
Salts of rare earth minerals	1,148	324	(a) 382	(a) 1,004	(a) 974	(a) 1,128
France—						
Monazite	437	397	(b) 1,235	(b) 846	(b) 1,425	(b) 1,779
Salts of rare earth minerals	509	14	327	602	626	42
Germany (Federal)—						
Rare earth minerals ..	73	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	—	(a) 25
Salts of rare earth minerals	580	(a) 384	(a) 697	(a) 1,144	(a) 931	(a) 838
United States—						
Monazite sand and other thorium ore	6,529	5,859	2,112	—	2,691	6,830

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.

(b) Rare earth minerals.

SALT

PRODUCTION OF SALT

Long tons

Producing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Rock-salt	88,133	116,482	142,831	149,990	285,000	477,000
Brine-salt	1,043,779	1,085,547	1,132,419	1,232,979	1,189,354	1,259,960
Salt in brine (a)	3,852,692	3,732,899	4,185,058	4,385,010	4,194,854	4,243,786
Malta—						
Sea-salt	1,146	1,435	1,065	1,399	1,720	1,846
Ghana						
	(b) 22,000	(b) 22,000	(b) 22,000	12,000	18,000	19,000
Kenya						
	22,602	18,721	19,242	21,916	22,650	18,568
Mauritius—						
Sea-salt	3,700	3,800	3,700	4,200	4,000	3,700
Nigeria						
	(b) 400	554	400	666	340	326
Northern Rhodesia						
	—	—	—	—	—	125
Tanganyika						
	25,792	35,232	36,722	32,811	25,726	29,377
Uganda						
	9,541	9,919	8,781	4,891	6,493	3,000
Canada—						
Rock-salt	706,237	696,512	1,111,523	1,179,212	1,156,239	1,634,175
Other salt (c)	875,727	1,411,200	1,850,118	1,777,460	1,742,446	1,586,192
West Indies—						
Sea-salt—						
Bahamas (d)						
	113,429	105,750	176,571	171,286	168,643	154,571
St. Kitts (d)						
	1,149	2,054	2,496	156	722	1,332
Virgin Islands (d)						
	53	—	11	31	2	6
Turks and Caicos Islands						
	15,872	20,000	31,546	24,408	29,651	<i>n.a.</i>
Aden						
	198,000	155,000	175,000	127,641	77,000	77,000
Ceylon						
	84,742	17,883	30,253	54,000	34,427	45,796
Cyprus						
	6,336	5,048	5,351	—	2,055	5,663
India—						
Rock-salt	4,335	5,115	3,637	4,243	4,232	4,400
Other salt	3,608,870	4,160,553	3,123,824	3,377,000	3,406,800	3,783,700
Goa						
	9,361	4,486	3,811	8,000	<i>n.a.</i>	10,000
Pakistan—						
Rock-salt	155,669	177,601	163,014	184,755	216,387	187,902
Sea-salt	296,643	193,837	130,645	248,176	183,580	252,484
Australia						
	427,600	429,534	467,532	463,296	494,894	534,966
New Zealand						
	<i>n.a.</i>	7,650	20,300	17,020	5,017	8,900
TOTAL	11,600,000	12,400,000	12,800,000	13,500,000	13,300,000	14,400,000
OTHER COUNTRIES						
Austria—						
Rock-salt	636	738	1,022	1,697	3,316	5,033
Evaporated salt	114,632	116,372	123,601	130,379	136,517	144,366
Bulgaria						
	73,000	110,000	87,000	87,000	124,000	<i>n.a.</i>
Czechoslovakia						
	158,167	159,070	158,279	165,086	184,985	178,980
France—						
Rock-salt (incl. refined)	495,636	540,658	566,023	598,345	657,694	677,000
Salt in brine	2,419,542	2,190,448	2,086,440	2,353,322	2,252,198	2,105,000
Sea-salt	554,196	808,904	758,541	713,903	874,210	1,237,000
Germany (Federal)—						
Rock-salt, etc.	3,211,000	3,183,000	3,268,000	3,573,000	4,270,000	4,508,000
Brine-salt	320,103	332,301	323,994	333,739	335,744	340,491

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

(b) Estimated.

(c) Including salt in brine.

(d) Exports.

PRODUCTION OF SALT (cont.)

Long tons

Producing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (East)	1,728,000	1,750,000	1,659,000	1,757,000	1,968,000	(a)2,000,000
Greece—						
Sea-salt	8,000	94,000	96,000	95,131	117,000	(a) 118,000
Italy—						
Rock-salt and brine-salt	1,062,619	1,012,428	1,260,478	1,534,370	1,589,177	1,699,230
Sea-salt	707,912	917,497	673,578	979,182	<i>n.a.</i>	<i>n.a.</i>
Spring-salt	20,533	22,126	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Netherlands (brine-salt)	706,197	782,650	970,497	1,078,360	1,096,578	1,242,000
Poland—						
Rock-salt	372,000	386,000	500,000	513,000	598,000	598,000
Brine-salt	214,000	225,000	224,000	219,000	232,000	238,000
Other salt	695,000	974,000	1,075,000	1,183,000	1,188,000	1,205,000
Portugal—						
Rock-salt	27,832	58,482	61,282	68,845	71,689	72,631
Sea-salt	308,000	306,000	211,000	211,000	262,610	309,836
Roumania	836,000	720,000	827,000	1,028,000	1,309,000	<i>n.a.</i>
Spain—						
Rock-salt	504,735	551,239	550,294	528,027	604,591	<i>n.a.</i>
Sea-salt	804,596	846,902	748,919	815,450	937,706	<i>n.a.</i>
Other salt	7,133	16,414	17,373	14,087	17,871	<i>n.a.</i>
Switzerland	128,823	122,575	135,058	146,953	154,793	165,291
Yugoslavia—						
Sea-salt	39,000	60,000	22,000	35,000	44,000	} a 165,000
Evaporated salt	106,000	109,000	113,000	114,000	114,000	
Algeria—						
Brine-salt and sea-salt . .	114,897	130,516	125,620	235,990	126,325	<i>n.a.</i>
Angola	51,495	68,052	68,137	56,904	65,754	59,413
Canary Islands (sea-salt)	14,634	14,945	12,981	11,361	14,074	<i>n.a.</i>
Cape Verde Islands	19,393	7,697	19,949	23,383	17,089	<i>n.a.</i>
Congo Republic (rock-salt)	271	477	569	<i>n.a.</i>	551	<i>n.a.</i>
Egypt	508,000	396,000	377,000	513,000	509,000	<i>n.a.</i>
Ethiopia	174,000	163,000	139,000	155,000	149,000	170,000
French Somaliland	2,300	—	—	—	—	—
Libya (sea-salt)	—	12,000	15,000	12,000	10,000	14,000
Morocco	51,144	60,026	33,231	29,843	20,866	27,135
Mozambique—						
Rock-salt	57	5	<i>n.a.</i>	40	40	<i>n.a.</i>
Sea-salt	16,670	21,526	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Senegal	64,000	70,000	69,000	48,809	42,759	47,442
South Africa	143,521	215,132	233,362	248,849	204,647	251,081
South West Africa—						
Rock-salt	6,214	6,293	4,887	4,025	4,296	4,379
Other salt	58,957	80,000	44,600	67,000	50,000	70,000
Sudan	53,436	53,000	53,087	52,573	52,267	56,956
Tunisia (sea-salt)	148,000	167,000	91,000	162,900	149,482	159,000
Costa Rica	4,400	(a) 29,000	12,000	(b) 10,000	(b) 10,000	10,000
Cuba (sea-salt)	66,124	58,129	79,432	57,671	<i>n.a.</i>	<i>n.a.</i>
Dominican Republic—						
Rock-salt	42,653	43,233	62,818	65,259	74,506	} a 50,000
Sea-salt	15,246	15,520	19,831	19,210	19,782	
Guatemala (sea-salt)	16,505	15,395	15,642	14,846	15,425	16,583
Haiti (b)	10,000	10,000	10,000	10,000	10,000	10,000
Honduras	12,000	(b) 10,000	(b) 10,000	(b) 10,000	(b) 13,000	10,000
Mexico	297,000	357,000	512,000	(a) 512,000	(a) 590,000	(a) 590,000
Netherlands Antilles	500	500	300	112	(b) 150	<i>n.a.</i>
Nicaragua (sea-salt)	8,961	9,883	10,658	11,318	11,929	12,531
Panama (sea-salt)	8,363	5,524	7,722	7,000	7,607	10,333
Salvador	49,109	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	30,000	30,000

(a) United States Bureau of Mines' estimate.

(b) Estimated.

PRODUCTION OF SALT (cont.)

Long tons

Producing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
United States (e)—						
Rock-salt	4,769,273	4,828,000	5,500,000	5,773,000	5,749,000	6,898,000
Salt in brine	12,963,164	11,378,000	13,413,000	13,313,000	13,287,000	14,677,000
Evaporated salt	3,557,000	3,358,000	3,554,000	3,664,000	3,917,000	4,146,000
Argentina	323,082	r 564,150	r 511,000	540,000	410,900	n.a.
Brazil (sea-salt)	785,203	939,923	840,978	908,338	874,902	1,220,812
Chile	33,000	n.a.	41,998	n.a.	45,384	50,207
Colombia—						
Rock-salt	203,769	216,621	210,104	231,624	262,368	262,030
Sea-salt	94,229	69,713	50,053	66,775	68,610	38,602
Brine-salt	196,874	143,410	n.a.	n.a.	n.a.	n.a.
Ecuador (sea-salt)	24,037	19,124	21,434	26,868	31,000	(a)(b)31,000
Peru—						
Rock-salt	9,249	8,649	} 104,000	104,000	{ 8,922	10,678
Sea-salt	96,969	85,996				
Brine-salt	6,042	9,103				
Venezuela (sea-salt)	84,324	86,817	76,494	77,655	144,618	142,512
Afghanistan (f)	21,800	25,200	r 27,100	25,500	21,800	n.a.
Burma—						
Sea-salt	113,668	109,066	110,048	154,006	123,242	151,971
Brine-salt	840	793	803	1,231	1,304	1,267
China	8,150,000	10,240,000	10,870,000	a 13,000,000	11,000,000	a 12,000,000
Formosa (sea-salt)	380,979	436,908	422,877	446,086	424,823	585,322
Cambodia	30,000	63,000	49,000	37,000	54,000	(a)(b)54,000
Laos	(a) 2,000	n.a.	n.a.	n.a.	n.a.	n.a.
Vietnam (South)	86,590	106,144	153,230	103,355	98,000	190,000
Indonesia	341,706	230,898	309,775	194,614	142,376	299,000
Iran (g)	(b) 295,262	130,000	131,185	128,000	143,000	143,000
Iraq	(c) 21,000	(c) 25,893	(c) 37,000	36,209	35,500	37,471
Israel	31,065	33,160	33,451	36,632	44,000	n.a.
Japan—						
Government-licensed plants (d)	818,915	1,041,046	1,146,790	867,696	814,938	843,000
Jordan (brine-salt)	9,946	10,725	15,500	12,077	17,486	17,799
Korea (North)	n.a.	432,000	(a)(b)433,000	319,000	386,000	(a)(b)390,000
Korea (South)	363,360	429,516	383,733	392,962	119,823	381,947
Lebanon (sea-salt) (a)	12,000	15,000	15,000	15,000	10,000	16,000
Philippine Republic—						
Sea-salt	114,285	137,433	171,788	93,249	91,818	94,155
Syria	33,246	(b) 17,000	(b) r 8,000	(b) r 10,000	(b) 7,000	(b) 18,000
Thailand	259,000	421,000	345,000	329,000	246,000	b 200,000
Turkey—						
Rock-salt	8,996	35,131	34,226	31,061	29,000	28,000
Lake and spring salt	} 440,787	{ 101,232	} 448,823	407,455	234,000	396,000
Sea-salt .. ..							{ 344,220
Yemen	(a)(b)98,000	—	98,000	98,000	118,000	(a)(b)118,000
TOTAL*	r59,000,000	r61,000,000	r65,000,000	r70,000,000	70,000,000	75,000,000
WORLD'S TOTAL*	r71,000,000	r73,000,000	r78,000,000	r84,000,000	83,000,000	89,000,000

*Salt is known to have been produced in many countries for which statistics are not available, e.g., Belgium and the U.S.S.R.; an allowance has been made for these and other countries where information is not available.

(a) Estimated.

(b) United States Bureau of Mines.

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

(d) In addition there is a production of salt in other plants which in 1948 amounted to 47,012 tons.

(e) Sold or used by producers.

(f) Years ended March 21 of year following that stated.

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

EXPORTS OF SALT

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom	271,987	287,577	295,575	310,007	323,755	319,928
Kenya	586	64	18	5	752	681
Tanganyika	8,442	8,676	11,869	11,781	12,246	9,654
Uganda	2,309	1,966	2,270	1,393	1,127	660
Canada	408,828	363,131	1,137,569	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Bahamas (d)	113,429	105,750	176,571	171,286	168,643	154,571
St. Kitts	1,149	2,054	2,496	156	722	1,332
Virgin Islands	53	—	11	31	2	6
Turks and Caicos Islands	21,028	18,156	19,095	31,717	16,150	<i>n.a.</i>
Aden	342,350	147,050	168,506	101,279	116,379	99,858
Ceylon	—	—	—	4	—	—
Hong Kong	297	194	529	464	534	676
India	375,382	252,996	340,765	(c) 392,548	(c) 50,457	(c) 167,832
Goa	476	5,315	—	152	<i>n.a.</i>	<i>n.a.</i>
Malaya	7,675	12,472	2,754	2,369	1,993	2,108
Pakistan	5,663	6,799	15,619	34,855	121,591	89,304
Australia (a)—						
Refined salt	909	113	857	642	1,727	95
Other salt	18,891	19,091	18,470	16,815	31,242	3,685
OTHER COUNTRIES						
Austria	5,441	1,274	15	—	1,372	2,430
Belgium-Luxemburg						
E.U.	187	217	332	162	238	648
Denmark	234	313	343	300	481	298
France	72,490	87,035	103,420	108,316	96,538	103,097
Germany (Federal)	726,793	697,342	669,846	714,799	688,812	780,216
Italy	99,020	63,197	40,665	18,509	42,400	28,365
Netherlands—						
Common salt	3,398	5,294	7,652	8,371	507	—
Refined salt	437,328	450,019	536,609	627,306	651,618	724,458
Norway—						
Common salt	6,176	5,132	4,243	4,607	6,477	3,000
Refined salt	901	412	15	18	2	2
Poland	93,186	102,865	117,707	149,644	130,596	137,000
Portugal	2,627	3,131	1,488	478	409	2,269
Roumania	<i>n.a.</i>	134,000	151,900	185,300	280,700	287,200
Spain	318,889	354,925	435,712	(e) 490,912	(e) 427,791	(e) 503,206
Sweden	269	40	35	14	53	292
U.S.S.R.	105,600	92,100	68,200	86,600	112,900	131,800
Algeria	32,152	36,898	40,458	59,298	<i>n.a.</i>	<i>n.a.</i>
Angola	33,134	22,701	23,518	23,176	24,663	22,506
Cape Verde Islands	22,053	20,224	20,019	25,621	35,952	30,766
Egypt	177,530	327,886	230,144	385,620	352,315	205,544
Ethiopia (b)	94,256	46,325	73,041	52,604	53,173	<i>n.a.</i>
French Somaliland	49,057	—	—	—	—	—
Malagasy Republic	1,403	2,163	2,073	2,272	2,335	1,307
Mozambique	7,130	4,756	4,323	4,778	4,079	4,296
Morocco	<i>n.a.</i>	51	104	143	—	13
Senegal	<i>n.a.</i>	<i>n.a.</i>	10,628	10,226	10,519	12,212
South Africa	9,041	11,458	11,344	16,555	19,229	24,725
South West Africa—						
Rock-salt	1,965	1,596	1,831	1,794	2,093	1,895
Coarse salt	36,524	41,091	37,788	31,843	36,704	35,854
Other salt	583	577	398	1,405	1,487	1,104

(a) Years ended June 30 of that stated.

(b) Years 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.

(e) Excluding exports to Spanish Dependencies.

EXPORTS OF SALT (cont.)

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Sudan	44,569	22,504	34,745	11,560	923	516
Tunisia	122,895	128,329	135,142	87,255	146,600	128,764
Cuba	272	204	226	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Dominican Republic	32,749	44,370	54,738	58,011	57,592	<i>n.a.</i>
Honduras	621	2,002	4,393	2,835	939	1,709
Mexico	59,800	120,265	208,490	489,473	707,310	1,047,209
Netherlands Antilles	<i>n.a.</i>	181	219	112	102	119
Salvador	419	582	739	1,312	1,146	1,920
United States	348,846	324,115	378,883	<i>r</i> 375,287	573,184	593,931
Argentina	43,221	26,429	21,747	17,869	23,598	37,198
Peru	287	198	104	395	472	1,011
Burma	—	—	—	9,999	9,000	9,240
Formosa	197,958	285,996	283,103	287,531	289,089	233,137
Iran (a)	1,675	1,082	1,693	3,230	<i>n.a.</i>	<i>n.a.</i>
Japan	1	98	99	86	6	20
Thailand	219,647	243,272	257,105	220,356	187,071	132,874
Turkey	27,922	—	31,396	142,676	78,487	52,611
Vietnam (South)	69,006	29,122	82,315	51,080	21,702	35,677

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

IMPORTS OF SALT

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Salt for use of fisheries..	26,539	49,698	53,731	52,375	35,046	42,055
Channel Islands ..	667	667	621	698	631	535
Malta—						
Refined salt	(£4,434)	(£3,869)	(£5,683)	(£4,526)	(£5,137)	(£3,774)
Other salt	667	412	675	370	508	—
Gambia	429	810	406	301	403	325
Ghana	13,683	17,465	10,620	8,342	7,930	353
Kenya	332	4,194	2,874	1,944	3,078	6,748
Mauritius	8	10	7	1,021	74	35
Nigeria	92,243	103,834	99,755	r 103,926	110,913	111,467
Rhodesia and Nyasaland	32,034	31,211	34,705	38,251	36,208	39,858
Seychelles	200	578	251	234	416	216
Sierra Leone	5,961	7,225	6,204	7,394	7,230	6,361
Tanganyika	643	957	798	623	1,575	6,961
Uganda	11,374	13,442	15,528	18,573	18,826	23,739
Zanzibar	1,900	1,156	1,333	1,295	1,287	1,593
Canada—						
Salt for use of fisheries..	67,387	50,872	56,955	58,125	54,031	42,564
Refined salt	86	37	156	671	1,226	1,060
Other salt	260,635	253,454	273,217	112,579	122,747	175,871
Antigua	33	190	210	183	213	178
Barbados—						
Rock and coarse salt ..	346	101	184	109	51	53
Refined salt	2,026	1,984	2,234	—	2,120	2,098
Bermuda	159	150	326	169	172	132
British Honduras	460	485	603	515	514	501
Dominica	378	390	422	336	258	610
Grenada	879	643	586	r 14,215	520	n.a.
Jamaica—						
Rock-salt	29	17	24	3	48	36
Other salt	11,680	12,736	12,211	10,863	11,392	10,865
Montserrat	n.a.	47	54	16	37	38
St. Kitts	64	12	2	78	94	96
St. Lucia—						
Common salt	756	426	341	306	719	2,397
Refined salt	62	63	85	39	38	68
St. Vincent—						
Unrefined salt	181	329	124	139	95	78
Refined salt	289	318	230	330	274	315
Trinidad and Tobago—						
Rock and coarse salt ..	626	803	674	838	2,217	1,024
Refined salt	12,188	5,056	5,259	5,003	3,949	5,114
Virgin Islands	2	3	3	3	7	9
British Guiana—						
Rock and coarse salt ..	390	120	315	16	16	n.a.
Refined salt, etc. ..	2,301	2,172	2,242	2,662	2,669	n.a.
Aden	42	—	37	101	67	45
Brunei	304	292	298	290	386	335
Ceylon—						
Refined salt	5	7	10	22	66	28
Other salt	12	7	132	—	—	54,919
Cyprus	207	172	233	190	262	211
Hong Kong	33,287	24,720	30,796	29,867	36,156	38,733
India	87	17	365	(b) 158	(b) 8	(b) 1,902
Malaya—						
Refined salt	211	243	278	278	313	259
Other salt	76,173	90,209	69,807	80,652	73,720	83,546
North Borneo	2,480	4,128	3,073	3,856	3,054	2,916
Pakistan	(a) 1,750	(a) 2,860	(a) 2,170	(a) 1,100	5,775	8,910
Sarawak	4,260	4,986	4,849	4,516	5,115	5,036

(a) Exports from India to Pakistan by land.

(b) Years ended March 31 following that stated.

IMPORTS OF SALT (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
<i>(cont.)</i>						
Australia (a)—						
Rock-salt	2,504	3,147	1,246	1,428	5	—
Refined salt	1,400	1,783	1,054	681	923	366
Other salt	1,746	5,018	5,590	10,406	14,730	7,766
Fiji	927	1,441	1,563	1,899	1,795	2,066
New Guinea (a)	812	854	966	982	1,219	1,386
New Hebrides	90	142	161	98	162	164
New Zealand	47,802	r 48,047	r 46,504	44,350	53,899	51,759
Papua (a)	368	769	936	484	310	348
Solomon Islands	2	37	—	51	65	54
Western Samoa	259	231	297	219	n.a.	n.a.
Irish Republic—						
Refined salt	2,176	3,507	4,568	3,833	4,112	4,395
Other salt	30,441	29,917	28,514	31,934	32,817	36,841
OTHER COUNTRIES						
Austria—						
Common salt	34	21	10	153	67	102
Belgium-Luxemburg						
E.U.—						
Common salt	460,556	429,686	493,253	528,804	514,646	585,304
Refined salt	65,689	78,010	71,751	78,637	85,736	94,926
Denmark—						
Rock-salt	322	60	50,655	68,159	62,963	68,436
Refined salt	128,542	135,632	86,136	76,922	76,188	76,248
Faroe Islands	19,340	20,262	14,763	14,133	16,241	19,605
Finland	152,656	161,429	183,740	196,711	219,893	270,100
France	46,847	48,356	47,279	45,524	68,269	76,521
Germany (Federal)	569	923	7,329	15,920	15,091	24,759
Iceland—						
Common salt	52,585	45,333	39,948	51,830	47,785	56,147
Refined salt	95	156	189	212	172	207
Italy	40	124,577	41,822	137,168	137,441	141,440
Netherlands—						
Rock-salt	45,055	42,911	24,606	} 17,762	12,744	9,559
Sea-salt, etc.	1,525	7,474	7,438		19,250	17,380	14,142
Refined salt	35	33	38			
Norway—						
Common salt	234,596	204,616	152,872	169,844	132,812	141,186
Refined salt	34,571	32,426	61,058	75,799	91,286	101,625
Portugal	70,756	151	182	170	3,028	5,776
Sweden	409,549	444,443	454,869	510,095	544,803	586,971
Switzerland	610	736	1,008	1,164	1,174	774
Yugoslavia	75,353	48,159	38,154	79,384	131,876	27,722
Algeria	231	219	284	370	n.a.	n.a.
Cameroun	12,313	11,071	12,751	10,932	13,878	12,482
Canary Islands	943	369	1,290	n.a.	n.a.	n.a.
Ceuta	2,078	752	862	n.a.	n.a.	n.a.
Congo Republic	38,146	46,890	49,809	n.a.	n.a.	n.a.
Dahomey	938	958	621	1,601	1,548	944
Egypt	3	9	8	5	4	11
Equatorial African						
Community	8,144	10,721	8,240	10,537	8,881	8,829
Ethiopia (b)	824	1,787	1,387	594	172	n.a.
Ivory Coast	8,800	10,974	15,286	15,874	17,502	5,629
Liberia	2,113	266	1,396	1,515	674	n.a.
Malagasy Republic	2,048	192	194	253	315	3,408
Melilla	589	979	1,024	n.a.	n.a.	n.a.

(a) Years ended June 30 of that stated.

(b) Years ended September 10 of that stated.

IMPORTS OF SALT (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Morocco	<i>n.a.</i>	2,296	4,134	2,753	602	584
Mozambique	9,626	6,956	2,021	2,058	3,075	<i>n.a.</i>
Niger	472	119	107	1,569	4,401	16,839
Reunion	1,127	1,496	1,421	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
S. Tome and Principe	452	472	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Senegal	164	350	110	137	160	103
Somali Republic (b)	—	81	12	596	<i>n.a.</i>	<i>n.a.</i>
South Africa	2,832	5,110	3,702	4,092	3,005	2,284
Sudan	93	17	59	25	53	77
Togo	6,329	11,494	5,552	4,911	8,099	9,103
Upper Volta	36	206	1,024	926	5,168	7,315
Costa Rica	143	142	156	96	141	95
Cuba	6,918	5,497	14,846	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
French West Indies—						
Guadeloupe	1,242	596	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Martinique	1,538	2,040	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Greenland	12,205	15,051	12,090	12,595	8,757	7,356
Guatemala	42	82	187	376	245	142
Honduras	790	934	750	1,156	968	1,876
Mexico	1,222	1,434	7,048	2,556	1,187	862
Netherlands Antilles	628	550	568	541	523	619
Nicaragua	466	421	574	595	677	681
St. Pierre and Miquelon	2,129	604	593	1,375	2,264	2,414
Salvador	654	2,004	4,344	2,741	983	1,724
United States	581,112	545,574	914,847	943,775	937,575	1,226,588
Bolivia	4	5	53	53	<i>n.a.</i>	<i>n.a.</i>
Brazil	38	19	10	46	26	—
Colombia	8	31	3	4	3	3
French Guiana	281	224	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Peru	1	8	86	74	91	2,420
Surinam	928	878	975	1,065	<i>n.a.</i>	1,000
Uruguay	54,614	31,139	57,484	47,603	<i>n.a.</i>	<i>n.a.</i>
Burma	617	325	1,080	1,557	957	1,779
Indonesia	113,042	6,288	84	85	<i>n.a.</i>	<i>n.a.</i>
Iran (a)	93	100	—	99	<i>n.a.</i>	<i>n.a.</i>
Iraq	32	43	40	1,606	<i>n.a.</i>	<i>n.a.</i>
Japan	2,053,208	1,674,643	1,911,882	2,323,639	2,366,506	2,610,880
Laos	<i>n.a.</i>	<i>n.a.</i>	675	2,234	1,341	<i>n.a.</i>
Lebanon	6,429	6,270	4,421	5,493	5,109	<i>n.a.</i>
Syria	441	410	47	<i>n.a.</i>	<i>n.a.</i>	17,818
Philippine Republic—						
Crude	6,348	7,259	2,943	8,931	3,971	582
Refined	1,012	485	170	704	4,235	239
French Polynesia	291	285	350	332	324	402
New Caledonia	464	449	444	411	446	419

(a) Years ended March 20 of year following that stated. (b) Former British Protectorate only.

SELENIUM
PRODUCTION OF SELENIUM

Lb. avdp.

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Northern Rhodesia (a) ..	24,206	24,388	33,448	50,119	39,362	40,526
Canada	321,392	306,990	368,107	521,638	430,612	487,066
OTHER COUNTRIES						
Belgium (b)	24,471	48,900	124,600	72,500	51,800	29,500
Finland	9,220	13,051	13,196	11,358	13,296	11,797
Sweden	143,054	84,135	133,170	176,880	213,471	155,060
Mexico	175,480	107,580	8,891	6,945	5,642	2,458
United States (c) ..	1,060,000	683,000	728,000	539,000	1,022,000	999,000
Peru	6,865	4,010	8,155	10,681	16,305	18,380
Japan	154,337	182,410	229,488	278,237	300,265	309,317
WORLD'S TOTAL ..	1,920,000	1,460,000	1,650,000	1,670,000	2,100,000	2,060,000

Selenium is also produced in Australia.

(a) Contained in copper slimes exported for treatment.

(b) Exports.

(c) Including selenium content of compounds and small quantities of secondary selenium.

EXPORTS OF SELENIUM

Lb. avdp.

Exporting Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Rhodesia and Nyasaland (a)	24,206	24,388	33,448	50,119	39,362	40,526
Canada (b)	228,051	250,351	325,712	404,410	345,800	325,600
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.	24,471	48,900	124,600	72,500	51,800	29,500
Germany (Federal) ..	49,384	63,300	70,300	50,500	n.a.	n.a.
Sweden	99,208	117,000	161,000	165,000	157,000	110,000
Mexico	175,267	103,562	—	—	—	—
Peru	5,284	9,339	8,084	7,820	14,800	10,518
Japan	66,084	108,410	105,019	88,749	149,434	111,962

(a) Contained in copper slimes exported for treatment.

(b) Including salts.

IMPORTS OF SELENIUM

Lb. avdp.

Importing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom ..	141,864	122,987	201,167	308,174	258,372	241,330
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.	4,409	2,400	2,000	44,300	1,800	12,600
France	(b) 42,108	(b) 50,700	(b) 50,500	(b) 58,600	57,800	66,000
Germany (Federal) ..	107,806	141,800	162,500	248,200	261,200	160,300
Italy	13,889	16,676	24,700	47,000	46,500	50,706
Sweden	n.a.	n.a.	4,000	68,000	75,000	18,000
United States (a) ..	172,678	204,311	273,929	r 171,574	127,482	160,389
Argentina	n.a.	n.a.	7,760	8,314	7,641	12,613
Brazil	5,062	4,830	4,793	7,383	9,811	9,520
Peru	183	44	49	148	214	569

(a) Including salts.

(b) Including tellurium.

SILLIMANITE, Etc.

PRODUCTION OF SILLIMANITE, ETC.

Long tons

Producing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Bechuanaland Protectorate—						
Kyanite	107	—	—	—	—	—
Kenya—						
Kyanite	—	—	708	921	—	—
Mullite	—	536	755	344	—	—
India—						
Kyanite	23,504	25,615	16,238	19,838	26,726	48,834
Sillimanite	7,417	13,845	7,574	8,349	7,985	8,125
Australia—						
Kyanite, sillimanite and andalusite (a) ..	2,302	1,696	3,633	1,524	1,787	2,637
OTHER COUNTRIES						
Cameroun—						
Kyanite	—	—	—	—	5	n.a.
South Africa—						
Andalusite	15,892	13,024	3,343	9,154	6,934	18,048
Sillimanite	28,313	17,779	40,935	52,575	84,406	52,815
South West Africa—						
Kyanite	3,473	2,665	2,896	1,284	2,679	1,488
United States—						
Kyanite (b)	29,000	23,000	29,000	30,000	33,000	34,000
Korea (South)—						
Andalusite	—	1,218	2,177	241	502	450

(a) In addition the following amounts of kaolinised sillimanite were produced (long tons): 1957—2,315; 1958—1,823; 1959—1,969; 1960—2,401; 1961—1,608; 1962—1,681.

(b) Estimated. In addition the following amounts of synthetic mullite were produced (long tons): 1957—17,744; 1958—14,536; 1959—16,266; 1960—19,194; 1961—13,212; 1962—16,983.

EXPORTS OF SILLIMANITE, ETC.

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Bechuanaland Protectorate—						
Kyanite	107	—	—	—	—	—
Kenya—						
Kyanite and mullite ..	—	536	1,787	1,750	—	—
India—						
Kyanite	24,457	19,158	22,335	25,439	31,226	36,362
Sillimanite	5,624	9,458	4,413	7,707	5,407	4,821
OTHER COUNTRIES						
France—						
Kyanite, sillimanite, etc.						
Crude	—	—	—	14	22	183
Calcined	307	251	20	21	258	750

EXPORTS OF SILLIMANITE, ETC. (cont.)

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (Federal)—						
Kyanite, sillimanite, etc.						
Crude	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	84	155	306
Calcined	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	21	3	5
Italy—						
Kyanite, sillimanite, etc.						
Crude	—	—	246	6	54	298
Calcined	149	—	53	23		
Netherlands—						
Kyanite, sillimanite, etc.	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	2,777	8,299	7,344
South-West Africa—						
Kyanite	3,732	2,479	1,929	142	2,714	1,944
South Africa—						
Andalusite	4,248	2,944	2,215	3,636	4,787	5,974
Sillimanite	26,189	18,318	35,484	45,595	86,849	39,552
United States—						
Kyanite, etc.	2,311	2,226	2,441	2,906	3,571	3,186

IMPORTS OF SILLIMANITE, ETC.*

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Kyanite, sillimanite, etc.	(a) 19,000	(a) 15,900	(a) 15,100	27,966	35,763	31,123
Canada—						
Kyanite, etc.	1,520	1,065	1,677	1,703	1,376	1,419
Australia—						
Kyanite	487	500	15	546	1,045	9
Sillimanite	132	131	135	259	191	190
OTHER COUNTRIES						
France—						
Kyanite, sillimanite, etc.						
Crude	4,346	3,817	1,230	3,887	4,322	3,360
Calcined	554	778	544	1,001	1,717	1,193
Germany—						
Kyanite, sillimanite, etc.						
Crude	12,535	9,253	10,388	12,939	18,775	20,879
Calcined	391	98	74	59	325	819
Italy—						
Kyanite, sillimanite, etc.						
Crude	2,574	5,716	2,791	3,661	6,829	11,257
Calcined	560	542	239	270		
Netherlands—						
Kyanite, sillimanite, etc.	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	4,631	14,910	6,886
United States—						
Kyanite, sillimanite, etc.	5,356	1,754	5,030	5,403	4,835	4,715
Japan—						
Kyanite, sillimanite, etc.	(a) 10,000	(a) 7,900	(a) 25,000	(a) 23,700	(a) 38,700	18,638
Thailand—						
Kyanite, sillimanite, etc.	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	597	467	373

*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	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom	27,337	20,553	13,355	7,098	4,744	514
Bechuanaland Protectorate	35	44	41	25	39	33
Ghana (a)	25,390	45,762	16,839	14,160	7,027	4,443
Kenya	23,051	44,146	46,420	35,797	40,731	50,160
Nigeria	200	—	—	—	—	—
Northern Rhodesia (b)	520,543	558,535	r 937,678	920,601	744,084	697,054
Southern Rhodesia	74,179	264,630	328,947	392,026	106,801	83,540
Swaziland	—	—	—	58	103	132
Tanganyika	(d) 521,623	(d) 737,578	(d) 535,366	(d) 595,357	(d) 64,001	24,463
Uganda (a)	21	37	54	109	70	38
Canada	28,823,298	31,163,470	31,923,969	34,016,829	31,381,977	30,422,972
India	125,838	109,800	124,800	132,700	191,000	138,700
Australia	15,811,129	16,339,812	15,160,631	r15,215,956	13,059,166	17,540,832
Fiji	24,425	r 25,342	23,652	r 31,319	37,712	38,936
New Guinea	38,101	25,065	36,830	33,060	30,246	24,511
New Zealand	1,279	2,339	4,873	1,353	805	416
TOTAL	46,017,000	49,338,000	r49,154,000	r51,396,000	45,669,000	49,027,000
OTHER COUNTRIES						
Austria	1,286	—	—	—	—	—
Czechoslovakia (e)	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000
Finland	373,592	560,709	522,739	390,374	456,155	380,495
France	703,590	770,270	944,750	1,039,900	1,128,800	878,000
Germany (Federal)	2,133,973	2,112,304	1,897,700	1,842,600	1,879,790	1,957,562
Germany (East) (e)	4,800,000	4,800,000	4,800,000	4,800,000	4,800,000	4,800,000
Greece	93,462	99,410	150,300	(f) 105,500	113,400	n.a.
Italy	937,210	1,020,700	894,500	845,400	874,900	870,000
Norway	63,000	—	—	—	—	—
Portugal	62,308	45,783	54,140	52,920	48,260	52,920
Spain	1,345,734	1,774,900	2,206,700	1,739,700	4,526,600	f 4,000,000
Sweden	2,512,163	2,944,300	3,098,100	r 2,756,000	2,825,300	3,367,900
Yugoslavia (h)	2,589,700	3,751,700	2,827,300	3,024,800	3,454,080	3,750,930
Algeria (g)	235,000	225,000	400,000	300,000	300,000	280,000
Congo Republic	3,044,900	3,794,000	r 4,768,180	3,962,840	3,457,880	1,595,500
Morocco	2,411,250	2,411,000	1,234,303	1,097,273	907,905	858,469
Mozambique	—	—	—	44	22	13
South Africa	1,767,472	1,795,384	2,020,780	2,226,204	2,288,279	2,549,206
South West Africa (c)	1,725,648	1,395,110	1,740,568	1,061,033	1,061,043	1,468,932
Tunisia	113,556	135,194	43,339	34,400	69,767	24,600
Cuba (i)	252,728	325,278	215,000	121,415	—	—
Guatemala	528,436	320,621	(f) 88,000	663,121	515,905	(f) 32,400
Honduras	2,260,433	2,762,932	3,167,376	2,947,021	3,544,702	2,479,658
Mexico	47,149,514	47,592,360	44,075,452	44,526,460	40,350,000	41,250,000
Nicaragua	230,081	304,277	274,993	326,673	417,253	500,050

(a) Exports.

(b) Recovered from copper-refinery slimes.

(c) Accounted for by smelters.

(d) Including silver in lead concentrates exported amounting to 500,945; 719,250; 512,728; 572,428 and 38,372 fine troy ounces in 1957; 1958; 1959; 1960 and 1961 respectively.

(e) "Metallgesellschaft" estimate.

(h) Refined.

(f) United States Bureau of Mines' estimate.

(i) Imports into the United States from Cuba.

(g) Estimated.

PRODUCTION OF SILVER (cont.)

Fine troy ounces

Producing Country	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Salvador	172,306	197,629	199,080	76,809	—	—
United States	38,164,915	34,111,027	31,194,006	30,766,327	34,794,456	36,798,000
Argentina	1,350,331	1,543,200	1,549,600	1,671,838	1,430,675	1,318,150
Bolivia (b)	5,375,090	6,051,284	4,504,126	4,887,138	3,901,010	3,759,129
Brazil	348,160	185,313	225,152	252,930	231,900	350,861
Chile	r 1,870,100	r 1,901,900	r 2,021,800	r 1,741,400	1,734,600	n.a.
Colombia	106,494	105,162	102,678	134,331	127,943	131,599
Ecuador	34,800	46,100	162,600	126,400	101,200	127,700
Peru	24,845,258	25,918,353	27,225,216	30,755,496	34,161,710	32,930,780
Burma	1,526,810	1,487,264	1,969,954	1,984,263	1,743,302	1,443,605
Formosa	82,870	52,320	60,900	52,600	77,300	80,100
Japan	6,543,673	6,552,032	6,650,930	6,912,600	7,960,200	8,620,000
Korea (South)	277,346	247,788	241,900	329,640	460,430	412,910
Korea (North) (a)	300,000	400,000	500,000	500,000	500,000	500,000
Philippine Republic	479,216	497,987	504,085	1,133,343	812,793	675,570
TOTAL*	159,000,000	161,000,000	154,000,000	157,000,000	164,000,000	163,000,000
World's TOTAL*	205,000,000	210,000,000	203,000,000	208,000,000	210,000,000	212,000,000

*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) Exports.

EXPORTS OF SILVER*

(Metal content)

Fine troy ounces

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Bullion	39,331,255	12,390,683	10,177,065	6,316,238	11,394,246	19,794,688
Ghana—						
Bullion	25,390	45,762	16,839	14,160	7,027	4,443
Kenya—						
Refined bullion	22,960	44,146	46,411	33,865	37,836	46,304
Rhodesia and Nyasaland—						
Bullion	74,079	75,200	311,688	76,096	132,547	83,913
Tanganyika—						
Concentrates	500,945	719,250	512,728	572,428	38,372	—
Refined bullion	20,520	18,552	22,818	23,053	25,860	23,959
Uganda—						
Bullion	21	37	54	109	70	38
Canada—						
Ore, concentrates, etc.	5,979,459	5,098,788	6,814,865	8,897,402	10,352,700	8,801,332
Bullion	12,799,990	16,026,550	15,140,830	12,761,063	10,783,414	9,445,094
Hong Kong—						
Bullion	943,000	677,000	434,000	489,000	442,000	683,000
India—						
Bullion	33,356,619	—	—	—	—	—
Malaya—						
Bullion	946,500	777,000	1,023,000	1,087,500	703,000	2,298,844
Australia (a)—						
Ores and concentrates	2,370,890	2,794,100	2,495,782	2,362,204	2,723,394	2,748,415
Silver-lead bullion .. .	4,797,845	3,991,803	4,775,248	3,941,164	4,299,192	3,260,286
Bullion, refined .. .	16,521,195	3,040,383	3,500,045	3,404,372	1,756,486	732,480
do. unrefined .. .	46,690	8,790	—	—	—	—
Beaten, rolled or drawn	2,584	29,651	40,254	12,660	88,141	7,005
Fiji—						
Bullion	1,360	9,368	6,007	19,652	—	1,840
New Guinea (a)—						
Bullion	41,354	34,534	23,864	40,733	28,961	27,438
Irish Republic—						
Bullion	1,700	14,500	10,500	7,700	9,400	n.a.
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Bullion and scrap .. .	3,858,000	4,315,000	11,545,000	11,358,000	6,337,000	8,198,000
Denmark—						
Bullion	49,000	48,000	50,000	55,000	54,000	40,000
Beaten, rolled or drawn	1,100	2,000	2,000	16,000	2,000	—
France—						
Bullion and scrap .. .	2,432,000	2,334,000	1,454,000	1,359,000	937,000	3,880,000
Beaten, rolled or drawn	447,000	358,000	456,000	799,000	693,000	557,000
Germany (Federal)—						
Bullion	18,955,000	13,866,000	15,829,000	14,872,000	18,621,000	19,377,000
Italy—						
Bullion and scrap .. .	500	57,000	—	3,000	n.a.	n.a.
Netherlands—						
Bullion and scrap .. .	5,268,000	4,949,000	1,680,000	631,000	646,000	2,673,000
Beaten, rolled or drawn	430,000	508,000	416,000	381,000	304,000	295,000
Spain—						
Bullion	—	780,000	2,588,000	322,000	—	—
Sweden—						
Bullion	536,000	1,983,000	1,213,000	997,000	1,382,000	1,591,000

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

(a) Years ended June 30 of that stated.

EXPORTS OF SILVER (cont.)

Fine troy ounces

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Switzerland—						
Bullion	157,000	331,000	72,000	38,000	107,000	362,000
Yugoslavia—						
Bullion	1,922,000	2,032,000	1,901,000	2,293,000	2,572,000	2,850,000
Congo Republic—						
Bullion	29,000	39,000	30,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Morocco—						
Bullion	79,000	200	—	—	2,000	—
South Africa—						
Bullion	1,318,673	1,125,205	1,860,220	1,570,306	1,629,320	2,120,592
South West Africa—						
Concentrates (b) ..	1,789,323	1,719,990	1,966,995	1,004,920	1,833,437	1,253,200
Guatemala (a)—						
Ore and base bullion ..	251,294	189,000	2,000	—	142,000	<i>n.a.</i>
Honduras—						
Ore and base bullion ..	2,230,839	2,762,932	2,792,165	2,584,984	3,327,020	2,905,530
Cuba (a)—						
Bullion, etc.	252,728	325,000	215,000	121,000	—	—
Mexico—						
Bullion, etc.	37,323,000	36,372,000	38,889,000	34,430,000	30,775,000	33,545,000
Nicaragua—						
Bullion	209,000	283,000	237,000	212,000	241,000	288,134
Salvador—						
Bullion	164,000	192,000	182,000	78,000	—	—
United States—						
Ore and base bullion ..	1,372,682	1,640,000	103,000	291,000	653,717	770,000
Refined bullion	8,926,674	1,093,000	9,077,000	26,302,000	39,173,558	12,287,000
Argentina—						
Bullion, etc.	360,000	590,000	522,000	641,000	70,000	786,000
Bolivia—						
Ores, etc.	5,375,090	6,051,284	4,504,126	4,887,138	3,901,010	3,759,129
Chile—						
Ores, etc.	1,448,610	1,399,052	1,568,503	1,319,804	2,004,068	<i>n.a.</i>
Colombia—						
Bullion and scrap ..	15,000	391,000	—	126,000	—	—
Ecuador (a)—						
Ore and base bullion ..	53,138	63,000	107,000	94,000	62,000	70,000
Peru—						
Ores and concentrates	10,475,843	12,537,472	14,502,819	15,511,489	15,399,592	14,387,584
Bullion	10,233,361	11,473,233	11,857,528	13,875,412	17,446,202	19,620,308
Matte, slag, etc. ..	427,221	376,985	501,518	400,750	437,971	380,721
Burma—						
Bullion	1,155,593	1,289,738	1,822,709	1,525,295	1,195,970	1,400,129
Japan—						
Bullion and scrap ..	37,000	174,000	24,000	10,000	12,000	(c) 386,000
Philippine Republic (a)—						
Ore and base bullion ..	285,496	263,000	158,000	2,195,000	602,000	359,000

(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	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ores	5,138,000	5,586,000	4,249,000	4,001,000	3,529,000	3,730,969
Unrefined bullion ..	2,926,311	1,720,751	1,593,867	1,546,202	957,994	601,902
Refined bullion ..	13,032,752	11,560,848	16,831,670	27,279,961	64,845,184	99,087,863
Malta—						
Bullion	6,000	11,200	10,200	7,100	6,200	8,404
Ghana—						
Bullion	40,973	23,959	16,475	32,025	20,499	36
Nigeria—						
Bullion, etc.	6,433	5,329	45,337	32,189	562	<i>n.a.</i>
Sierra Leone—						
Bullion	2,125	160	—	2,305	4,349	3,450
Zanzibar—						
Bullion	60	3	—	—	—	—
Canada—						
Bullion	1,895,131	2,701	2,807,774	3,849,115	12,278,469	15,182,336
Jamaica—						
Bullion	1,850	1,500	2,200	—	1,800	1,500
Trinidad and Tobago—						
Bullion	4,852	8,481	12,564	9,306	9,480	15,062
British Guiana—						
Bullion	1,600	2,400	2,000	4,100	3,700	<i>n.a.</i>
Ceylon—						
Bullion	523,000	5,000	14,500	7,600	—	19,800
Cyprus—						
Bullion	22,500	36,300	57,000	52,000	55,000	60,500
Hong Kong—						
Bullion	22,000	18,000	60,000	24,000	26,000	26,000
India—						
Bullion	68	2,002	4,079	(b) 37,500	(b) 70,500	(b) 44,000
Malaya—						
Bullion	20	1,000	—	5,200	1,100	1,700
Sarawak—						
Bullion	100	650	160	—	—	—
Australia (a)—						
Matte	—	—	—	—	11,609	25,203
Bullion	73,190	87,638	63,279	89,814	65,540	64,749
Beaten, rolled or drawn	—	—	—	197	340	5,429
New Zealand—						
Bullion	64,736	58,895	62,072	70,158	19,079	71,901
Beaten, rolled or drawn	130,000	6,200	9,000	13,000	22,600	871,608
Irish Republic—						
Bullion	—	—	1,400	—	—	—
OTHER COUNTRIES						
Austria—						
Bullion	5,559,000	5,255,000	3,069,000	954,000	4,065,000	1,893,000
Belgium-Luxemburg						
E.U.—						
Bullion and scrap ..	3,679,000	1,477,000	1,692,000	2,620,000	4,511,000	6,406,000
Denmark—						
Bullion	1,393,000	1,473,000	1,360,000	1,269,000	1,045,000	1,122,000
Beaten, rolled or drawn	1,066,000	1,250,000	1,662,000	1,799,000	2,074,000	2,201,000
Finland—						
Bullion, etc.	1,172,000	766,000	660,000	723,000	354,000	15,000

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

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

IMPORTS OF SILVER (cont.)

Fine troy ounces

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
France—						
Bullion and scrap ..	10,856,000	11,380,000	19,094,000	26,526,000	12,856,000	18,813,000
Beaten, rolled or drawn	212,000	143,000	157,000	275,000	502,000	287,000
Germany (Federal)—						
Bullion	34,355,000	30,093,000	30,455,000	35,109,000	44,001,000	39,554,000
Italy—						
Bullion and scrap ..	5,535,000	5,055,000	7,244,000	8,979,000	<i>n.a.</i>	<i>n.a.</i>
Netherlands—						
Bullion and scrap ..	1,390,000	1,234,000	2,780,000	1,308,000	1,847,000	4,600,000
Beaten, rolled or drawn	173,000	134,000	395,000	779,000	847,000	775,000
Norway—						
Bullion	821,000	691,000	864,000	988,000	919,000	830,000
Beaten, rolled or drawn	960,000	1,210,000	1,207,000	1,290,000	1,364,000	1,282,000
Portugal—						
Bullion and scrap ..	4,065,000	3,272,000	2,559,000	2,808,000	1,360,000	1,283,000
Beaten, rolled and drawn	14,000	22,000	19,000	22,000	24,000	90,000
Sweden—						
Bullion	1,245,000	481,000	354,000	643,000	354,000	386,000
Switzerland—						
Bullion	6,506,000	5,173,000	3,041,000	3,792,000	12,582,000	6,122,000
Algeria—						
Bullion and scrap ..	135,000	100,000	64,000	38,000	<i>n.a.</i>	<i>n.a.</i>
Beaten, rolled or drawn	101,000	122,000	100,000	114,000	<i>n.a.</i>	<i>n.a.</i>
Congo Republic—						
Bullion	26,000	48,000	67,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Egypt—						
Bullion and scrap ..	1,000	3,000	2,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
South Africa—						
Bullion	5,571	—	38,000	—	52,000	—
Guatemala—						
Bullion	80,000	323,000	330,000	162,000	304,000	311,000
United States—						
Ore and base bullion ..	99,925,905	134,650,000	39,759,000	43,404,000	34,558,974	37,168,000
Refined bullion ..	106,192,994	31,316,000	29,329,000	17,253,000	15,697,216	39,191,000
Brazil—						
Bullion	568,000	345,000	313,000	500,000	1,007,000	1,076,000
Colombia—						
Bullion and scrap ..	320,000	—	9,000	122,000	36,000	19,000
Japan—						
Bullion and scrap ..	52,000	100	1,426,000	6,834,000	3,826,000	(a)3,402,000
Lebanon—						
Bullion and scrap ..	9,000	8,500	6,500	74,000	6,400	<i>n.a.</i>
Turkey—						
Bullion, etc.	—	—	5,000	36,000	10,000	64,000

(a) Including "beaten, rolled or drawn".

STRONTIUM MINERALS

PRODUCTION OF STRONTIUM MINERALS

Long tons

Producing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Celestite	6,900	5,600	6,000	6,604	8,679	6,532
Pakistan— (b)						
Celestite	854	455	664	1,332	412	284
OTHER COUNTRIES						
Italy—						
Celestite	1,094	628	315	817	1,053	<i>n.a.</i>
Morocco—						
Strontium minerals ..	266	1,004	389	—	—	—
Mexico (a)—						
Celestite	1,820	2,135	2,269	2,650	2,488	4,202
United States—						
Strontium minerals ..	<i>n.a.</i>	—	<i>n.a.</i>	—	—	—
Argentina—						
Celestite	<i>n.a.</i>	214	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

Strontianite is also produced in Germany.

(a) Exports.

(b) West Pakistan.

EXPORTS OF STRONTIUM MINERALS, ETC.

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Celestite (a)	4,128	3,884	5,309	2,941	6,498	2,596
OTHER COUNTRIES						
France—						
Oxide	—	—	5	1	2	2
Italy—						
Strontianite and celestite	—	—	20	242	285	90
Mexico—						
Celestite	1,820	2,135	2,269	2,650	2,488	4,202

(a) Imports into the United States from the United Kingdom.

IMPORTS OF STRONTIUM MINERALS, ETC.

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
Germany (Federal)—						
Strontianite and celestite	445	317	446	280	<i>n.a.</i>	<i>n.a.</i>
United States—						
Strontianite and celestite	5,826	5,970	7,267	5,523	8,867	6,687
Strontium compounds ..	—	5	1	—	—	—

SULPHUR

(see also Pyrites)

PRODUCTION OF SULPHUR

Long tons

Producing Country and Description	Estimated Sulphur Content						1962	1961	1960	1959	1958	1957
	1957	1958	1959	1960	1961	1962						
COMMONWEALTH COUNTRIES												
United Kingdom—												
Spent oxide ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	101,399	117,247	126,129	110,484
Anhydrite (a) ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	150,573	156,654	156,489	180,291
Other (b) ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	53,173	49,561	39,142	51,929
Canada—												
Smelter gas ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	247,348	215,228	209,931	261,364
Hydrogen sulphide (d) (g)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	130,050	84,265	83,337	620,623
Trinidad (f) ..	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
Australia—												
Sulphur contents of:												
zinc concentrates ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	175,397	160,976	177,529	184,568
lead concentrates ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	49,102	51,939	54,880	60,665
Spent oxide ..	14,379	12,857	10,495	10,309	7,334	n.a.	n.a.	n.a.	3,655	5,154	5,751	2,381
OTHER COUNTRIES												
France—												
Sulphur (d) ..	28,000	126,670	428,024	779,000	1,088,000	1,327,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Germany (Federal)—												
Refined sulphur ..	76,568	75,565	78,474	82,807	82,860	89,234	76,568	75,565	78,474	75,565	76,568	89,234
Germany (East)—												
Sulphur ..	100,190	104,679	106,153	110,130	115,451	118,559	100,190	104,679	106,153	104,679	100,190	118,559
Greece—												
Sulphur rock ..	22,848	—	—	—	—	—	2,700	—	—	—	2,700	—
Italy—												
Sulphur rock ..	1,681,801	r 1,488,904	r 1,408,842	1,258,141	1,200,404	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Fused (e) ..	175,981	r 161,320	r 116,252	79,703	68,668	53,067	175,981	161,320	116,252	79,703	68,668	53,067
Ground sulphur rock (e)	19,904	18,619	r 21,139	r 25,361	17,567	23,216	6,000	5,600	6,300	7,600	5,300	7,000
Norway (c) ..	95,148	89,126	77,111	71,256	61,157	45,204	95,055	89,027	77,034	71,178	61,090	45,158

(a) For sulphuric acid manufacture only.

(b) Including sulphur recovered from petroleum refineries but excluding sulphur recovered from zinc concentrates.

(c) Sulphur recovered from pyrites.

(d) Recovered from natural gas.

(e) Derived from sulphur rock above.

(f) Recovered from petroleum refineries. Estimated.

(g) Sales.

PRODUCTION OF SULPHUR (cont.)

Long tons

Producing Country and Description	Estimated Sulphur Content					
	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES (cont.)						
Poland—						
Native sulphur ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Portugal (i) ..	16,675	17,373	15,888	10,915	8,813	6,677
Spain—						
Sulphur rock ..	29,585	27,435	25,922	16,691	—	—
Refined sulphur (h) ..	62,174	25,251	25,719	40,194	48,323	41,667
Sweden—						
Sulphur ..	33,309	33,465	r 34,900	38,300	n.a.	n.a.
Egypt—						
Native sulphur ..	—	7,127	6,013	18,000	44,692	21,623
By-product sulphur (a) ..	r 3,386	2,901	r 2,600	r 2,369	2,546	2,072
South Africa—						
By-product sulphur (a) ..	—	—	—	—	2,163	1,913
Mexico—						
Mined (f) ..	1,024,066	1,223,055	r 1,293,187	r 1,261,570	1,148,494	1,350,375
Refined sulphur (e) ..	41,642	27,837	47,454	36,660	52,849	47,939
United States—						
Crude sulphur (f) ..	5,491,212	4,643,243	4,553,634	4,942,935	5,385,468	4,984,578
Sulphur ore (g) ..	276,868	6,292	331,237	379,067	400,015	162,186
Smelter gas (b) ..	1,194,230	1,101,754	969,678	1,056,890	1,016,731	1,088,397
By-product sulphur (c) ..	512,388	641,890	688,487	769,319	861,413	902,124
Hydrogen sulphide and liquid sulphur dioxide (c)	102,157	106,527	104,887	114,359	126,923	115,670
Argentina—						
Refined sulphur ..	16,981	25,221	25,207	r 39,261	27,824	26,376
Bolivia (d) ..						
Refined sulphur ..	783	392	—	1,175	4,897	7,247
Chile—						
Refined sulphur ..	r 53,328	n.a.	14,069	30,901	43,994	63,226

(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) Produced in treatment of industrial gases.

(d) Exports.

(e) Recovered from natural gas.

(f) Frasch-process mines.

(g) Other mines.

(h) Derived partly from sulphur rock above but in the main recovered from pyrites.

(i) Sulphur recovered from pyrites.

PRODUCTION OF SULPHUR (cont.)

Long tons

Producing Country and Description	Estimated Sulphur Content											
	1957	1958	1959	1960	1961	1962	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES												
<i>(cont.)</i>												
Colombia— Refined sulphur ..	5,157	6,690	9,000	9,000	9,900	10,046	5,157	6,690	9,000	9,000	9,900	10,046
Formosa— Refined sulphur ..	9,433	6,178	5,533	5,725	5,472	7,462	9,433	6,178	5,533	5,725	5,472	7,462
Iran— Native sulphur ..	<i>n.a.</i>	10,354	10,300	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	5,000	5,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
By-product sulphur (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>	16,665	12,800	20,000	20,000	20,000	15,000
Japan— Refined sulphur ..	253,547	178,052	215,668	243,683	238,562	219,000	253,547	178,052	215,668	243,683	238,562	219,000
Philippine Republic (b) ..	<i>n.a.</i>	<i>n.a.</i>	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	2,308	<i>n.a.</i>	—	43	158	50
Turkey— Refined sulphur ..	12,900	12,622	13,174	16,830	15,506	18,246	12,900	12,609	13,161	16,813	15,490	18,200

Sulphur is also produced in Bulgaria, the Netherlands, U.S.S.R., the Netherlands Antilles, Iraq and Manchuria.

(a) Recovered from petroleum refineries.

(b) Including sulphur recovered from gold and silver mines.

EXPORTS OF SULPHUR

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom	1,238	1,511	3,145	4,148	3,978	1,738
Canada	11,040	6,792	23,684	127,715	194,523	357,166
Hong Kong	40	197	148	122	138	163
Malaya	93	1	25	43	36	3
Australia—						
Zinc concentrates						
(S content) (a)	82,900	67,100	49,500	82,500	70,000	65,000
New Zealand	8	—	17	8	10	—
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Crude	442	3	1,014	875	1,546	3,752
Refined	2,130	712	2,758	2,457	3,245	5,529
France—						
Crude	9,042	56,011	220,358	412,821	561,958	534,930
Unrefined ground	2,037	2,426	3,077	4,542	2,775	2,707
Refined lump	877	905	791	770	1,161	767
Flowers of sulphur	3,943	5,563	5,022	4,920	5,411	5,346
Precipitated sulphur	578	20	—	2	1	21
Germany (Federal)	25,879	26,251	25,582	19,956	16,354	21,839
Germany (East)	19,578	15,800	14,306	23,554	33,022	41,060
Italy—						
Crude	122,498	30,116	28,737	25,824	17,550	3,103
Refined	25,541	5,378	8,715	22,980	22,920	8,746
Flowers of sulphur	405	746	440	517	365	297
Precipitated sulphur	1	3	29	1	12	30
Netherlands—						
Crude	3,687	5,972	8,449	5,236	5,005	5,042
Refined	147	26	30	29	14	38
Norway	69,729	54,298	64,424	56,389	34,271	32,251
Portugal	1,294	645	405	442	455	366
Spain—						
Crude	5	—	—	—	—	—
Refined	3	10	—	—	—	—
Sweden	701	368	411	432	286	330
U.S.S.R.	40,300	41,200	51,000	112,000	214,700	106,400
South Africa	281	67	109	65	151	—
Mexico	863,344	1,005,498	1,064,780	1,233,691	1,136,452	1,309,975
United States—						
Crude	1,578,359	1,577,919	1,612,158	1,775,526	1,585,531	1,537,419
Refined and flowers of sulphur	14,620	24,207	23,449	11,017	10,512	16,567
Bolivia	783	392	—	1,175	4,897	7,247
Chile	8	346	946	800	714	n.a.
Colombia	492	—	—	—	—	—
Japan	43	9,026	119	217	284	301

(a) Estimated amount recoverable.

IMPORTS OF SULPHUR

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Sulphur	322,814	326,946	377,439	486,899	496,193	495,776
Wastes and residues	13,275	8,929	14,765	13,531	20,079	16,986
Malta—						
Crude	50	126	27	30	—	—
Flowers of sulphur	(£3,800)	(£4,503)	(£8,225)	(£8,522)	(£9,109)	(£11,539)
Kenya	203	236	225	162	150	287
Mauritius	94	2	37	80	74	36
Rhodesia and Nyasaland	76	46	78	8	110	220
Tanganyika	304	230	235	269	460	328
Uganda	854	495	215	1,050	402	2,676
Canada	372,015	335,116	296,812	293,540	291,844	174,125
Jamaica	9	5	5	16	4	16
Trinidad and Tobago	24	24	6	8,151	27,277	9,753
British Guiana	1	1	—	1	n.a.	n.a.
Ceylon	5,641	2,189	2,794	2,803	3,467	958
Cyprus	1,272	1,286	1,439	1,256	1,583	1,707
Hong Kong	859	544	1,609	1,382	1,288	1,431
India	115,491	117,928	143,345	(a) 173,579	(a) 210,596	(a) 252,536
Malaya	415	218	1,135	1,107	1,517	2,077
Pakistan	1,112	3,091	1,334	3,782	5,634	5,179
Australia	138,083	208,028	174,053	169,547	233,754	176,933
New Zealand	92,270	65,195	88,180	133,246	144,475	104,902
Irish Republic	5,737	6,649	7,279	18,439	35,193	46,070
OTHER COUNTRIES						
Austria	31,707	44,480	52,853	55,982	60,106	73,165
Belgium-Luxemburg						
E.U.—						
Crude	104,471	95,632	133,578	180,462	163,476	167,455
Refined	416	414	568	387	280	226
Czechoslovakia	28,000	37,000	58,000	74,000	107,000	131,000
Denmark	2,419	1,445	3,485	6,751	4,399	9,744
Finland	64,268	62,504	69,997	98,722	84,749	82,571
France—						
Crude	299,359	302,612	190,829	144,224	140,868	144,801
Unrefined ground	152	110	—	69	33	225
Refined lump	1	2	44	33	44	153
Precipitated	29	6	12	16	48	50
Germany (Federal)	63,844	63,415	100,251	174,622	158,316	216,554
Greece	9,210	8,222	13,188	14,272	12,509	8,396
Hungary	22,403	17,951	18,829	30,290	27,165	31,053
Netherlands—						
Crude	22,318	63,865	57,486	95,330	125,167	120,697
Refined	1,408	913	1,365	1,251	1,195	1,271
Norway	4,632	3,363	1,382	7,275	9,854	14,085
Poland	n.a.	23,500	34,200	45,300	10,900	n.a.
Portugal	2,628	1,825	2,710	8,039	11,953	20,614
Spain—						
Crude	—	2,953	14,776	6,651	5,800	6,518
Refined, etc.	21	38	15			
Sweden	68,707	64,645	67,667	77,163	95,916	81,370
Switzerland—						
Crude and ground	36,298	42,531	34,832	69,482	54,038	61,497
Flowers of sulphur	255	170	304	322	121	212
U.S.S.R.	92,300	65,200	63,000	49,500	43,800	31,600
Yugoslavia	3,635	6,843	7,957	13,291	18,633	11,426

(a) Years ended March 31 following that stated.

IMPORTS OF SULPHUR (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Algeria—						
Crude	20,067	24,522	25,307	33,468	<i>n.a.</i>	<i>n.a.</i>
Unrefined, ground ..	1,098	1,611	1,843	1,953	<i>n.a.</i>	<i>n.a.</i>
Refined	431	487	202	369	<i>n.a.</i>	<i>n.a.</i>
Flowers of sulphur ..	—	82	306	104	<i>n.a.</i>	<i>n.a.</i>
Precipitated	451	23	—	—	<i>n.a.</i>	<i>n.a.</i>
Angola	149	220	197	162	578	364
Canary Islands—						
Crude	1,370	1,968	—	4,823	6,769	6,498
Refined, etc.	3,732	4,921	4,892			
Congo Republic	163	408	135	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Egypt	14,460	7,830	13,213	14,117	8,757	8,444
Malagasy Republic ..	57	36	18	15	7	3
Morocco—						
Crude	3,992	6,493	9,198	9,194	3,386	7,752
Unrefined, ground ..	140	239	434	487	1,246	1,153
Refined	215	196	249	558	325	75
Flowers of sulphur ..	2,103	3,147	2,913	2,530	2,535	2,540
Precipitated	66	23	13	203	8	12
Mozambique	970	671	411	649	659	<i>n.a.</i>
South Africa	104,064	126,821	114,028	114,595	111,326	116,393
Tunisia—						
Crude and unrefined ..	1,554	7,392	2,137	6,592	8,593	4,962
Refined and flowers of sulphur	769	1,616	1,091	657	823	1,623
Costa Rica	45	12	163	126	147	10
Cuba	17,637	10,813	81,899	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Guatemala	193	293	173	74	95	104
Mexico	207	441	238	173	146	145
Netherlands Antilles ..	<i>n.a.</i>	5,002	4,987	1,501	4,002	—
Nicaragua	15	105	904	4,143	5,583	8,221
Salvador	161	76	15	27	42	16
United States	499,401	590,687	642,488	741,370	831,517	1,049,433
Argentina—						
Crude	43,235	38,558	25,809	29,720	20,188	23,856
Refined and flowers of sulphur	103	80	34	24	104	71
Brazil—						
Crude	98,058	93,970	103,782	137,844	128,018	150,351
Refined	2,199	242	327	242	161	182
Flowers of sulphur ..	433	—	—	—	—	—
Precipitated	71	47	44	47	12	13
Colombia	250	288	61	68	95	4,773
Ecuador	19	36	21	<i>n.a.</i>	96	22
Peru	3,450	4,579	7,954	12,189	9,825	15,515
Uruguay	523	7,084	3,275	6,443	<i>n.a.</i>	<i>n.a.</i>
Venezuela	2,311	2,332	3,866	2,553	8,839	10,390
Burma	1,596	493	535	691	1,688	1,468
Formosa	1,701	8,963	4,529	10,683	11,915	15,252
Indonesia	7,396	7,880	11,254	8,447	<i>n.a.</i>	<i>n.a.</i>
Iraq	97	268	378	1,004	<i>n.a.</i>	<i>n.a.</i>
Israel	<i>n.a.</i>	44,938	51,231	59,965	43,079	67,816
Japan	2,984	151	121	93	101	35
Jordan	475	773	1,189	825	1,455	1,556
Korea (South)	2,145	2,311	4,263	4,433	7,526	214
Lebanon	1,812	3,863	5,751	3,504	3,692	<i>n.a.</i>
Philippine Republic ..	2,152	2,480	1,374	1,815	535	2,744
Syria	743	580	853	1,151	904	1,032
Thailand	1,072	643	591	3,216	2,268	3,746
Turkey—						
Refined and flowers of sulphur	223	6	48	227	64	9

TALC
PRODUCTION OF TALC
(Including Steatite and Pyrophyllite)

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Great Britain	3,800	4,147	5,683	6,468	6,930	7,357
Swaziland—						
Pyrophyllite	20	139	900	1,530	2,638	3,484
Southern Rhodesia	—	—	—	—	—	20
Canada (c)	31,004	31,612	34,979	37,175	42,961	41,215
India	43,976	45,452	63,467	91,917	96,597	101,890
Pakistan (f)	1,174	1,586	2,340	3,370	1,215	1,067
Australia—						
Talc	14,441	15,393	16,376	15,670	13,545	13,193
Pyrophyllite	358	267	347	501	1,288	1,087
OTHER COUNTRIES						
Austria	72,246	69,709	50,424	80,978	83,606	74,574
Finland	9,011	5,823	6,376	9,829	6,221	6,329
France	129,895	165,753	172,793	184,819	219,132	179,000
Germany (Federal)	42,789	42,784	42,736	44,394	44,900	41,600
Greece	2,000	1,752	292	1,793	1,825	(a) 2,000
Italy	98,742	107,772	107,532	122,426	141,358	124,720
Norway	69,859	66,244	68,774	70,000	64,000	88,000
Portugal	—	—	217	669	709	321
Spain	31,331	29,786	27,376	27,547	27,230	n.a.
Sweden	11,433	12,218	14,205	15,595	15,500	(a) 15,700
Egypt	5,385	6,476	5,989	5,905	5,862	(a) 5,900
Morocco	—	4,833	3,496	n.a.	n.a.	n.a.
South Africa (b)	2,066	683	1,341	1,767	2,928	12,429
United States—						
Talc	467,781	502,401	571,771	544,502	540,142	577,215
Pyrophyllite	143,337	138,818	134,978	111,278	140,554	111,828
Argentina	23,428	26,839	26,730	(a) 27,000	(a) 27,000	(a) 27,000
Brazil	20,556	28,074	20,865	19,603	21,682	37,695
Colombia	n.a.	n.a.	n.a.	n.a.	n.a.	640
Paraguay (a)	100	100	100	100	100	100
Peru—						
Talc	120	152	1,512	240	329	281
Pyrophyllite	2,280	1,700	1,306	1,306	2,561	1,411
Uruguay	1,399	1,776	2,085	2,944	1,658	1,688
Afghanistan (d)	700	700	700	700	700	n.a.
Burma	—	—	n.a.	n.a.	1,377	n.a.
Formosa	5,302	3,283	6,321	10,390	12,219	13,197
Iran (e)	n.a.	200	300	300	300	n.a.
Japan—						
Talc	31,991	39,250	39,529	49,927	54,971	56,333
Pyrophyllite	386,857	298,245	438,275	533,068	569,593	523,713
Korea (South)—						
Talc	6,496	9,946	16,380	15,727	21,332	27,920
Pyrophyllite	4,606	5,751	413	6,497	23,606	17,826
Philippine Republic	—	—	—	5	187	116
TOTAL*	1,660,000	1,670,000	1,890,000	2,000,000	2,200,000	2,100,000

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

(a) United States Bureau of Mines' estimate.

(b) In addition the following amounts of wonderstone were produced (long tons): 1957—531
1958—1,121; 1959—350; 1960—624; 1961—913; 1962—1,650.

(c) Shipments.

(d) Estimated.

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

(f) West Pakistan.

EXPORTS OF TALC

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Canada	2,101	1,724	1,833	1,482	<i>n.a.</i>	<i>n.a.</i>
India	7,021	7,101	7,387	(b) 7,498	(b) 11,128	(b) 3,184
Malaya	203	200	574	361	552	350
Australia (a)	2,604	3,116	2,811	2,838	4,478	4,922
OTHER COUNTRIES						
Austria	50,349	50,772	34,002	62,452	61,397	55,008
Belgium-Luxemburg						
E. U.	20	37	33	40	8	8
France	31,801	29,895	31,618	42,497	43,558	44,113
Germany (Federal) ..	1,017	639	1,160	920	1,137	1,041
Italy	39,917	44,300	41,117	49,405	49,381	50,787
Netherlands	79	55	72	120	144	193
Norway	53,294	52,133	53,782	62,020	60,878	63,162
Sweden	1,758	1,764	2,836	1,838	1,352	1,968
Egypt	1,082	1,409	701	1,273	2,012	<i>n.a.</i>
Mexico	321	182	366	355	1	—
United States	35,701	52,363	52,456	53,087	42,779	41,910
Japan	670	716	810	1,000	1,178	1,687
Korea (South)—						
Talc	5,773	11,783	14,198	6,964	14,279	249
Pyrophyllite	<i>n.a.</i>	4,888	8,187	8,208	12,360	<i>n.a.</i>

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

IMPORTS OF TALC

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Unground	760	262	229	848	994	624
Ground	37,251	38,000	39,239	41,595	38,881	42,515
Canada	13,225	14,798	16,507	17,101	18,040	21,561
Ceylon	1,091	1,969	1,812	1,855	1,530	2,191
Malaya	3,552	2,792	3,953	5,803	7,154	3,436
Australia (a)	220	263	253	539	958	1,468
OTHER COUNTRIES						
Austria	674	400	205	281	1,373	1,759
Belgium-Luxemburg						
E. U.	11,426	11,080	11,576	13,148	13,417	14,846
Denmark	9,142	8,278	7,880	10,750	11,376	11,606
Finland	1,471	1,821	2,785	4,042	2,774	2,799
France	3,851	5,334	4,018	4,831	6,622	6,899
Germany (Federal)	39,234	35,449	39,223	47,681	48,391	50,038
Greece	13	15	34	r 25	54	83
Italy	2,248	1,685	1,959	3,916	6,607	8,664
Netherlands	10,671	8,506	10,511	11,241	10,946	11,822
Norway	n.a.	n.a.	1,258	1,405	1,570	2,718
Poland	n.a.	24,800	9,200	38,400	30,900	n.a.
Portugal	844	707	865	914	990	1,180
Sweden	8,296	8,239	10,187	9,088	11,614	10,428
Switzerland	n.a.	n.a.	n.a.	14,390	15,460	15,725
U.S.S.R.	69,400	70,000	80,200	81,800	49,600	73,600
Yugoslavia	97	195	354	335	400	348
Algeria	1,744	3,112	2,651	4,317	n.a.	n.a.
Congo Republic	289	253	348	n.a.	n.a.	n.a.
Egypt	6	—	—	2	15	6
Malagasy Republic	4	8	8	5	16	9
Morocco	551	837	809	874	1,412	1,644
Tunisia	439	544	438	654	498	655
Costa Rica	48	58	62	80	85	83
Guatemala	46	69	70	71	93	121
Honduras	16	36	28	36	17	15
Mexico—						
Talc	15,758	28,068	19,328	22,476	28,810	23,501
Pyrophyllite	431	896	542	1,485	271	95
Salvador	28	46	26	41	74	66
United States	18,210	20,438	22,635	21,407	24,424	23,014
Argentina	—	1	3	52	128	74
Brazil	10	—	10	5	1	—
Chile	27	41	r 42	r 34	n.a.	n.a.
Colombia	1,503	903	1,129	1,126	976	1,111
Ecuador	69	309	104	n.a.	159	86
Peru	470	433	465	398	654	493
Venezuela	1,053	1,367	1,533	1,212	1,446	1,741
Iraq	496	350	366	348	n.a.	n.a.
Japan	22,845	24,461	33,296	27,809	40,029	40,816
Lebanon	202	196	220	474	301	n.a.
Philippine Republic	1,484	1,544	1,806	2,532	1,800	1,710
Syria	292	320	268	n.a.	n.a.	491
Thailand	512	708	931	863	1,276	1,371
Turkey	122	153	168	274	324	179

(a) Years ended June 30 of that stated.

TANTALUM AND NIOBIUM MINERALS
PRODUCTION OF TANTALUM AND NIOBIUM MINERALS

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Kenya—						
Columbite	—	1	1	(385 lb.)	—	(375 lb.)
Nigeria—						
Tantalite	18	20	12	11	13	17
Columbite	1,923	806	1,588	2,047	2,345	2,264
Southern Rhodesia—						
Tantalum concentrates	34	43	52	48	62	72
Swaziland—						
Ytrotantalite	15	—	—	—	—	—
Tanganyika—						
Niobium concentrates (d)	—	(h) 40	(h) 100	(h) 150	(h) 120	—
Uganda—						
Tantalite and columbite	2	3	2	2	7	13
Canada—						
Niobium concentrates (Nb ₂ O ₅ content) ..	—	—	—	—	28	454
Malaya—						
Columbite	142	159	120	93	95	110
Australia—						
Tantalite and columbite	22	6	8	11	14	19
OTHER COUNTRIES						
Norway—						
Niobium concentrates (b)	190	281	285	341	316	344
Portugal—						
Tantalite and columbite	31	24	18	25	19	15
Congo Republic—						
Tantalite and columbite concentrates	154	179	177	(g) 232	(g) 66	(g) 145
Tin-tantalite-columbite c	1,919	1,421	1,223	(f) 670	n.a.	n.a.
Ivory Coast—						
Tantalite and columbite	—	1	1	3	4	3
Malagasy Republic—						
Columbite	8	13	10	10	21	(d) 7
Mozambique—						
Tantalite and columbite	129	168	143	142	133	101
Rwanda and Burundi—						
Tantalite and columbite concentrates	81	64	56	(g) 47	(g) 45	(g) 38
Tin-tantalite-columbite e	28	6	15	n.a.	n.a.	n.a.
South Africa—						
Tantalite	1	17	5	6	9	4
South West Africa—						
Tantalum and niobium concentrates	11	5	2	r 5	3	5
United States—						
Tantalum and niobium concentrates (a) ..	165	191	84	—	—	—

- (a) Shipments from mine. Principally niobium-tantalum oxide content of euxenite concentrates.
 (b) 50% Nb₂O₅ in 1957; 50% Nb₂O₅ in 1958; 50% Nb₂O₅ in 1959; 55% Nb₂O₅ in 1960; 55.3% Nb₂O₅ in 1961; 57.9% Nb₂O₅ in 1962.
 (c) Estimated to contain 140, 105 and 79 tons of tantalite-columbite in 1957, 1958 and 1959 respectively.
 (d) Exports.
 (e) Estimated to contain 13, 3 and 6 tons of tantalite-columbite in 1957, 1958 and 1959 respectively.
 (f) United States Bureau of Mines' estimate.
 (g) Including tantalite-columbite content of tin-tantalite-columbite.
 (h) 25% Nb₂O₅.

PRODUCTION OF TANTALUM AND NIOBIUM MINERALS (cont.)

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Argentina—						
Tantalite	—	(a) 5	(a) 1	—	—	(a) 2
Columbite	—	(a) 1	(a) 2	—	—	(a) —
Brazil—						
Tantalite and columbite	130	335	127	210	106	137
French Guiana—						
Tantalite and columbite	1	—	—	—	—	—
TOTAL (b) ..	3,210	2,470	2,880	3,380	3,430	4,150

Small quantities of tantalite and columbite have been produced in Northern Rhodesia, India and the Somali Republic.

(a) Imports into the United States.

(b) 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	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ferro-niobium and ferro-niobium-tantalum ..	82	37	71	97	83	68
Nigeria—						
Tantalite	r 12	24	16	r 11	11	13
Columbite	1,145	737	1,882	3,334	1,839	2,266
Rhodesia and Nyasaland—						
Tantalum concentrates	31	55	32	46	38	74
Tanganyika—						
Niobium concentrates ..	—	40	100	150	120	—
Uganda—						
Tantalite and columbite	2	4	1	3	3	9
Malaya—						
Columbite	102	311	47	99	138	98
Australia (a)—						
Tantalite and columbite	30	5	9	15	13	16
OTHER COUNTRIES						
Germany (Federal)—						
Tantalum metal, etc. ..	(16,800lb.)	(6,200lb.)	(5,700lb.)	(28,400lb.)	(22,000lb.)	(24,900lb.)
Niobium metal, etc. ..	n.a.	(2,000lb.)	(1,100lb.)	(3,300lb.)	(2,900lb.)	(4,200lb.)
Portugal—						
Tantalite and columbite	49	49	33	47	40	42
Norway—						
Niobium concentrates ..	n.a.	n.a.	331	270	192	264
Congo Republic (c)—						
Tantalite and columbite	348	476	355	(b) 200	(b) 120	(b) 130
Tantaliferous slag ..	583	1,126	151	806	n.a.	n.a.
Malagasy Republic—						
Columbite	6	6	7	24	14	7
Mozambique—						
Columbite	70	199	135	n.a.	40	n.a.
South Africa—						
Tantalite	1	7	—	1	1	10
South West Africa—						
Tantalite	7	10	—	1	2	4
United States—						
Tantalum concentrates	—	3	5	14	97	62
Niobium concentrates	26	24	7	69	25	10
Tantalum metal, etc. ..	(4,877lb.)	(13,476lb.)	(6,141lb.)	(17,559lb.)	(15,554lb.)	(18,078lb.)
Niobium metal, etc. ..	(21lb.)	(87lb.)	(354lb.)	(3,910lb.)	(13,376lb.)	(16,827lb.)
Tantalum powder ..	(5,977lb.)	(5,773lb.)	(1,988lb.)	(1,174lb.)	(5,585lb.)	(14,292lb.)
Brazil—						
Tantalite	91	95	93	115	118	144
Columbite	30	71	15	12	17	17
French Guiana—						
Tantalite and columbite	1	—	—	—	—	—

(a) Years ended June 30 of that stated.

(b) Estimated.

(c) Including Rwanda and Burundi.

IMPORTS OF TANTALUM AND NIOBIUM MINERALS, ETC.

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Tantalite and columbite	438	386	369	618	576	485
Tantalum metal ..	(5,365lb.)	(3,680lb.)	(1,119lb.)	(3,283lb.)	(5,444lb.)	(5,599lb.)
OTHER COUNTRIES						
France—						
Tantalite and columbite	24	43	127	155	145	88
Germany (Federal)—						
Tantalite	33	} 160	499	1,209	n.a.	n.a.
Columbite	159					
Tantalum metal, etc. ..	(7,100lb.)					
United States—						
Tantalite	370	462	291	r 310	361	541
Columbite	1,495	1,141	1,516	r 2,262	1,328	2,255
Tantalum metal ..	(2,430lb.)	(239lb.)	(405lb.)	(1,960lb.)	(2,887lb.)	(1,788lb.)
Niobium metal (a) ..	(4,061lb.)	(5,458lb.)	(1,160lb.)	(3,133lb.)	(2,139lb.)	(9,489lb.)
Japan—						
Columbite	77	6	3	86	55	11

(a) As recorded in official trade returns. According to U.S. Bureau of Mines includes ferro-alloy.

TIN
PRODUCTION OF TIN ORE
(Metal content)

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom	1,080	1,117	1,189	1,180	1,188	1,181
Nigeria	9,534	6,154	5,491	7,677	7,778	8,211
Northern Rhodesia	—	—	1	—	1	5
Southern Rhodesia	283	532	605	642	716	705
Swaziland	25	15	5	6	5	5
Tanganyika	14	18	65	138	164	207
Uganda	41	37	36	32	33	67
Canada (b)	317	355	334	278	500	307
Malaya	59,293	38,458	37,521	51,979	56,028	58,603
Australia	1,952	2,237	2,351	2,202	2,745	2,676
TOTAL	72,539	48,923	47,598	64,134	69,158	71,967
OTHER COUNTRIES						
France	429	—	—	21	153	276
Germany (Eastern) (a)	670	720	720	720	720	720
Italy	—	—	17	n.a.	n.a.	n.a.
Portugal	1,127	1,249	1,129	772	729	679
Spain	498	467	326	196	230	290
Cameroun	74	75	62	64	65	20
Congo Republic	12,478	9,714	9,193	r 8,636	6,314	6,875
Congo (Republic of)	—	23	32	35	47	46
Morocco	8	6	10	10	11	11
Niger	50	62	57	53	47	42
Rwanda and Burundi	1,817	1,500	1,127	1,277	1,474	(a) 1,440
South Africa	1,463	1,416	1,272	1,276	1,430	1,421
South West Africa	636	155	5	261	302	369
Mexico	474	544	377	365	530	576
United States	—	—	50	10	n.a.	n.a.
Argentina	182	205	225	238	515	571
Bolivia (c)	27,759	17,705	23,774	18,938	20,318	21,492
Brazil	293	409	461	1,556	581	595
Peru	12	30	(e) 42	(e) 6	(e) 14	(e) 11
Burma	694	896	800	950	951	1,041
China (a) (d)	16,000	18,000	21,000	24,000	24,000	24,000
Indonesia	27,721	23,200	21,613	22,594	18,573	17,310
Japan	949	1,108	998	842	853	857
Laos	274	301	294	383	332	354
Thailand	13,528	7,718	9,684	12,080	13,270	14,679
TOTAL*	107,000	85,000	93,000	r 95,000	91,000	94,000
WORLD'S TOTAL*	180,000	134,000	141,000	r 159,000	160,000	166,000

*Excluding tin ore known to have been produced in Czechoslovakia, the U.S.S.R. and Vietnam.

(a) Estimated by International Tin Council.

(b) Tin in concentrates exported and in tin-lead alloy.

(c) Content of ore plus metal exported.

(d) Smelter.

(e) Recoverable.

SMELTER PRODUCTION OF TIN

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom	34,174	31,326	26,614	26,286	24,449	18,749
Nigeria	—	—	—	—	622	8,034
Southern Rhodesia	253	503	572	611	673	676
Malaya	71,289	45,336	45,729	76,130	79,114	82,073
Australia	1,806	2,121	2,226	2,254	2,546	2,724
TOTAL	107,522	79,286	75,141	105,281	107,404	112,256
OTHER COUNTRIES						
Belgium	9,011	9,304	6,608	8,515	6,372	9,507
Germany—						
Federal Republic	955	646	1,010	769	947	1,309
Eastern (b)	600	600	600	600	600	600
Netherlands	29,259	17,098	9,592	6,393	2,729	4,282
Portugal	1,072	1,260	1,174	601	784	970
Spain	446	449	346	464	731	905
Congo Republic	3,105	2,642	3,291	2,532	275	945
Morocco (b)	12	10	10	10	10	10
South Africa	825	901	726	622	870	821
Mexico	207	460	377	365	559	528
United States	1,564	(b) 5,250	(b) 10,700	(b) 13,500	(b) 8,500	(b) 5,500
Argentina	39	(b) 120	(b) 120	(b) 120	(b) 120	(b) 120
Bolivia (a)	204	682	917	1,020	1,840	n.a.
Brazil	1,401	629	1,227	r 1,311	1,525	1,673
China (b)	16,000	18,000	21,000	24,000	24,000	24,000
Indonesia	322	1,569	1,971	1,977	(b) 2,000	(b) 2,000
Japan	1,213	1,260	1,271	1,215	1,555	1,903
TOTAL*	65,000	61,000	61,000	r 64,000	53,000	57,000
WORLD'S TOTAL*	173,000	140,000	136,000	r 169,000	160,000	169,000

*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:

	1957	1958	1959	1960	1961	1962

		Long tons			Long tons	
		24,262			22,050	
		22,810			21,690	
		23,700			21,040	

(a) Exports.

(b) Estimated by International Tin Council.

EXPORTS OF TIN, ETC.*

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Unwrought	7,332	9,240	29,245	7,777	9,799	7,156
do. alloys	2,944	2,910	2,434	1,529	1,839	2,333
Semi-manufactures (a)	219	190	292	301	301	468
Nigeria—						
Ore and concentrates ..	13,577	7,626	7,536	10,658	10,410	347
Unwrought	—	—	—	—	600	7,542
Rhodesia and Nyasaland—						
Ore and concentrates ..	112	191	108	15	254	31
Unwrought	155	383	324	483	486	549
Tanganyika—						
Ore and concentrates ..	18	28	88	192	226	295
Uganda—						
Ore	51	59	55	46	42	87
Canada—						
Concentrates (Sn content)	317	355	400	<i>n.a.</i>	480	287
Hong Kong—						
Unwrought (a)	84	811	189	169	152	37
Scrap	—	—	—	—	2	65
Semi-manufactures	47	6	3	2	2	5
India—						
Scrap	23	29	40	(c) 65	(c) 123	(c) 34
Malaya—						
Unwrought	70,604	45,814	44,671	76,366	78,025	81,392
do. alloys	16	11	24	40	66	26
Semi-manufactures (a)	1	2	—	2	2	2
Australia (b)—						
Ore and concentrates ..						
(Sn content)	60	133	50	2	142	51
Unwrought (d)	50	63	21	20	18	58
OTHER COUNTRIES						
Austria—						
Unwrought (a)	12	29	82	120	92	1
Belgium-Luxemburg E.U.—						
Unwrought	9,459	8,916	6,212	7,981	4,405	6,803
do. alloys	182	130	135	124	124	93
Scrap	92	102	140	120	301	166
Semi-manufactures (a)	169	107	117	104	195	296
Denmark—						
Unwrought	17	18	151	130	111	18
do. alloys	6,204	4,721	8,580	2,780	3,873	632
Scrap	2	—	—	2	—	—
Semi-manufactures (a)	17	21	25	35	24	19
France—						
Ore	707	41	32	44	257	465
Unwrought	22	26	24	35	32	18
do. alloys	150	112	91	136	143	137
Semi-manufactures (a)	240	293	284	184	182	130
Germany (Federal)—						
Unwrought (a)	1,643	3,844	10,294	18,299	18,557	1,651
Semi-manufactures (a)	101	125	63	105	160	82

*In these tables the description "unwrought" tin corresponds to item 687.1 in the Standard International Trade Classification and comprises ingots, pigs, unwrought bars, sticks, etc. "Semi-manufactures" corresponds to S.I.T.C. 687.2 and includes foil and powder as well as sheets, strip, wire, pipes, tubes, etc.

(a) Including alloys.

(b) Years ended June 30 of that stated.

(c) Years ended March 31 following that stated.

(d) Including waste and scrap.

EXPORTS OF TIN, ETC. (cont.)

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES (cont.)						
Italy—						
Unwrought (a) ..	49	16	5	131	27	213
Semi-manufactures (a) ..	2	7	32	18	19	28
Netherlands—						
Unwrought	29,425	24,779	19,721	12,234	8,583	4,157
do. alloys	665	549	2,192	5,164	3,989	504
Scrap (a)	51	61	226	156	311	281
Semi-manufactures (a) ..	317	295	282	184	233	322
Norway—						
Unwrought (a) ..	13	25	386	389	405	271
Semi-manufactures (a) ..	281	223	2	—	—	2
Portugal—						
Ore	156	44	78	145	65	—
Unwrought	20	86	79	314	806	486
Spain—						
Unwrought	—	—	251	—	10	—
Sweden—						
Unwrought	16	168	64	21	16	24
do. alloys	n.a.	n.a.	371	267	128	213
Switzerland—						
Unwrought	4	37	12	19	14	10
Scrap	207	213	180	166	254	195
Semi-manufactures (a) ..	4	19	26	17	33	37
U.S.S.R.—						
Unwrought	18,000	21,900	17,800	11,300	5,600	500
Algeria—						
Scrap	11	6	6	11	n.a.	n.a.
Cameroun—						
Ore	59	118	118	103	89	120
Congo Republic (c)—						
Ore	16,186	9,829	9,638	r (b) 10,000	(b) 10,000	(b) 10,000
Unwrought	2,791	2,539	2,820	(b) 2,421	(b) 300	(b) 900
Congo (Republic of)—						
Ore	—	21	35	20	55	70
Niger—						
Ore	71	84	86	75	50	6
South Africa—						
Concentrates	1,225	1,239	1,273	1,499	1,394	1,422
South West Africa—						
Ore and concentrates ..	664	271	—	138	176	153
United States—						
Unwrought (a) ..	1,112	917	943	608	543	335
Scrap (a)	9,393	2,119	7,619	4,199	6,110	4,342
Semi-manufactures (a) ..	85	172	94	198	4,396	646
Argentina—						
Ore	182	—	202	109	183	137
Tin-silver ore	684	653	1,003	723	1,160	1,374
Bolivia—						
Ores, concentrates, etc. (Sn content)	27,555	17,023	22,857	17,918	18,478	} 21,492
Unwrought	204	682	917	1,020	1,840	
Peru—						
Concentrates (Sn content)	12	12	46	30	16	23
Unwrought (Sn content)	—	3	11	—	29	7
Burma—						
Ore and concentrates (Sn content)	987	1,328	1,377	1,395	1,325	1,481
China—						
Unwrought (b)	r 24,000	r 24,000	r 25,000	22,000	18,000	15,000

(a) Including alloys.

(b) Estimated.

(c) Including Rwanda and Burundi.

EXPORTS OF TIN, ETC. (cont.)

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Indonesia—						
Ore	37,572	25,207	24,856	34,227	23,127	n.a.
<i>Sn content</i>	27,536	18,184	18,426	24,867	16,788	16,710
Unwrought	84	215	285	1,765	1,796	n.a.
Japan—						
Semi-manufactures (a)	53	13	75	13	103	351
Laos—						
Ore (<i>Sn content</i>) ..	349	455	386	445	550	514
Thailand—						
Ore (<i>Sn content</i>) ..	13,345	6,545	10,100	12,618	13,122	19,527

(a) Including alloys.

IMPORTS OF TIN, ETC.*

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore and concentrates ..	81,896	64,895	61,494	58,268	51,364	50,058
Unwrought (a) ..	9,567	12,068	(b) 2,775	2,208	(b) 582	8,361
Ghana—						
Unwrought (a) ..	} 14	30	68	17	{ 10	7
Semi-manufactures (a) ..							112	521
Kenya—						
Unwrought (a) ..	83	94	112	115	99	121
Mauritius—						
Unwrought (a) ..	10	6	10	16	5	4
Semi-manufactures (a) ..	15	5	8	7	11	—
Nigeria—						
Unwrought and semi-manufactures (a)	53	29	35	23	18	74
Rhodesia and Nyasaland—						
Unwrought	22	8	1	—	8	1
Tanganyika—						
Unwrought (a) ..	65	69	71	79	67	47
Uganda—						
Unwrought (a) ..	22	42	28	39	41	36
Zanzibar—						
Semi-manufactures (a)	7	10	(b) 8	11	1	10
Canada—						
Unwrought	4,155	3,461	4,184	3,768	3,525	2,274
Semi-manufactures ..	7	9	8	9	12	6
Barbados—						
Unwrought (a) ..	6	4	5	6	3	5
Semi-manufactures (a)	4	138	51	45	85	169
Jamaica—						
Unwrought (a) ..	24	42	33	28	21	36
Semi-manufactures (a)	12	17	—	154	945	428
Trinidad and Tobago—						
Unwrought (a) ..	46	66	91	274	72	60
Semi-manufactures (a)	538	489	366	673	212	495
Aden—						
Semi-manufactures (a)	476	408	1,324	1,573	1,296	n.a.
Ceylon—						
Unwrought	11	9	11	17	17	11
do. alloys	38	37	57	38	23	33
Semi-manufactures (a)	1,285	1,012	1,906	2,114	1,704	2,480
Cyprus—						
Unwrought (a) ..	14	9	19	14	12	14
Hong Kong—						
Unwrought (a) ..	217	1,242	189	169	222	203
Scrap	n.a.	n.a.	16	13	20	44
Semi-manufactures (a)	36	28	11	21	3	7
India—						
Unwrought	3,391	4,659	4,295	(c) 3,533	(c) 4,839	(c) 4,201
Semi-manufactures (a)	2,795	426	68	(c) 14	(c) 43	(c) 20
Malaya—						
Ore	19,394	11,213	11,853	29,704	26,356	33,313
Unwrought (a) ..	105	90	149	139	192	233
Semi-manufactures (a)	9	2	4	100	22	42
North Borneo—						
Unwrought	1	1	9	4	174	182
Semi-manufactures ..	—	—	91	155	130	205

*See footnote on page 358 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.

IMPORTS OF TIN, ETC. (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
<i>(cont.)</i>						
Pakistan—						
Unwrought (a) ..	802	142	130	457	489	461
Australia (b)—						
Unwrought (c) ..	830	1,110	1,120	1,455	1,350	1,313
Semi-manufactures ..	10	13	15	12	23	6
Fiji—						
Semi-manufactures (a)	131	76	3	79	140	153
New Zealand—						
Unwrought (a) ..	355	380	352	362	291	380
Semi-manufactures (a)	40	23	26	19	30	59
Irish Republic—						
Unwrought (a) ..	62	64	69	67	56	44
OTHER COUNTRIES						
Austria—						
Unwrought (a) ..	543	514	651	848	788	722
Semi-manufactures (a)	4	9	5	17	26	24
Belgium-Luxemburg						
E.U.—						
Ore	14,087	10,222	8,740	9,955	10,107	9,976
Unwrought	2,493	2,451	2,026	3,404	764	1,575
do. alloys	149	109	122	117	164	130
Scrap	19	8	3	10	20	3
Semi-manufactures (a)	130	120	131	136	159	125
Denmark—						
Unwrought	4,042	3,269	7,198	2,663	3,653	508
do. alloys	308	1,122	521	365	72	102
Scrap	1,582	531	1,105	282	451	558
Semi-manufactures (a)	111	155	112	118	109	122
Finland—						
Unwrought (a) ..	438	266	606	609	645	512
France—						
Unwrought	11,217	12,794	10,927	11,676	10,043	11,209
do. alloys	59	26	93	206	598	63
Scrap	97	44	42	47	68	59
Semi-manufactures (a)	33	8	17	18	28	26
Germany (Federal)—						
Ore	9,219	5,514	4,944	3,993	6,285	7,977
Unwrought (a) ..	10,223	11,213	20,435	29,420	27,913	12,084
Scrap (a)	8	522	111	115	403	225
Semi-manufactures (a)	3	13	16	37	11	28
Greece—						
Unwrought	227	230	198	259	273	260
Hungary—						
Unwrought	1,136	762	1,152	940	1,053	962
Iceland—						
Semi-manufactures (a)	34	39	55	50	35	50
Italy—						
Unwrought	3,441	3,400	3,987	4,672	4,874	4,711
do. alloys	120	216	195	440	436	934
Scrap	5	5	16	—	12	9
Semi-manufactures (a)	20	20	39	66	61	78
Netherlands—						
Ore	40,773	20,214	13,291	8,351	4,154	7,527
Unwrought	4,588	9,155	9,261	2,171	2,148	2,515
do. alloys	234	421	4,912	10,885	11,966	195
Scrap (a)	62	27	62	98	59	60
Semi-manufactures (a)	181	173	236	57	38	81

(a) Including alloys.

(c) Including scrap.

(b) Years ended June 30 of that stated.

IMPORTS OF TIN, ETC. (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Norway—						
Unwrought	351	333	337	208	196	318
do. alloys	71	126	198	283	338	146
Semi-manufactures (a)	185	220	160	173	177	213
Poland—						
Unwrought	4,442	2,299	3,218	1,270	3,098	2,169
Portugal—						
Unwrought (a)	166	1	220	4	4	6
Semi-manufactures (a)				14	14	10
Spain—						
Ore	—	—	20	559	2,269	1,041
Unwrought	237	41	295	513	206	25
Sweden—						
Unwrought	799	1,280	965	817	727	800
do. alloys	<i>n.a.</i>	<i>n.a.</i>	256	280	133	107
Semi-manufactures (a)	<i>n.a.</i>	<i>n.a.</i>	131	118	113	101
Switzerland—						
Unwrought	1,011	919	643	849	1,167	1,091
Semi-manufactures (a)	5	4	3	185	111	87
U.S.S.R.—						
Unwrought	21,700	19,100	20,500	17,500	11,000	9,700
Yugoslavia—						
Unwrought	1,585	777	1,010	1,156	1,375	897
Semi-manufactures (a)	1	—	3	7	10	21
Algeria—						
Unwrought (a)	127	112	46	74	<i>n.a.</i>	<i>n.a.</i>
Semi-manufactures (a)	93	149	132	78	<i>n.a.</i>	<i>n.a.</i>
Egypt—						
Unwrought and scrap ..	543	1,062	646	332	713	544
Semi-manufactures ..	23	19	32	23	86	4
Malagasy Republic—						
Semi-manufactures (a)	16	20	19	25	11	6
Morocco—						
Unwrought	216	221	163	245	261	280
Mozambique—						
Semi-manufactures ..	22	15	20	16	33	<i>n.a.</i>
South Africa—						
Unwrought	1,067	1,037	621	1,000	670	504
Sudan—						
Unwrought and scrap ..	20	12	23	19	34	35
Tunisia—						
Unwrought (a)	13	19	26	28	34	10
Semi-manufactures (a)	63	62	59	13	12	10
Cuba—						
Unwrought	69	71	56	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Semi-manufactures (a)	60	74	120	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Mexico—						
Unwrought	518	753	816	626	178	191
United States—						
Ore (<i>Sn content</i>)	94	5,440	10,773	14,026	8,917	5,364
Unwrought	56,158	41,149	43,578	39,538	39,898	41,064
do. alloys (b)	5,077	3,208	3,350	809	612	2,517
Scrap	249	2	1	1	18	6,570
Argentina—						
Unwrought	2,662	1,490	1,465	1,696	1,958	954
Brazil—						
Ore	2,354	327	1,705	2,411	2,143	1,843
Unwrought (a)	766	24	283	33	15	1
Colombia—						
Unwrought (a)	72	55	137	91	141	126
Semi-manufactures (a)	182	57	181	68	61	66

(a) Including alloys.

(b) Including alloyed scrap, dross and residues.

IMPORTS OF TIN, ETC. (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
(cont.)						
Chile—						
Ore and concentrates ..	63	5	10	10	n.a.	n.a.
Unwrought	522	183	238	374	834	581
Peru—						
Unwrought (a) ..	61	39	65	57	79	61
Uruguay—						
Unwrought and semi-manufactures	157	35	114	78	n.a.	n.a.
Venezuela—						
Unwrought	173	239	385	123	139	174
Burma—						
Unwrought	124	63	105	20	29	21
Semi-manufactures (a)	4	36	157	64	51	24
Formosa—						
Unwrought (a)	130	123	207	145	106	165
Iran (b)—						
Unwrought	154	286	304	410	n.a.	n.a.
Iraq—						
Unwrought	24	21	20	16	n.a.	n.a.
Israel—						
Unwrought	101	104	93	100	72	93
Japan—						
Ore and concentrates ..	325	200	79	83	763	927
Unwrought	7,102	7,370	9,706	11,722	11,969	11,613
Lebanon—						
Unwrought	11	2	4	4	13	n.a.
Philippine Republic—						
Unwrought (a) ..	142	167	280	282	214	469
Syria—						
Unwrought and scrap ..	54	57	30	50	93	70
Turkey—						
Unwrought (a) ..	380	567	796	1,065	366	884
Semi-manufactures (a)	92	1	11	27	22	353

(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	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Gambia (a)—						
Ilmenite.. .. .	13,917	28,896	13,202	—	—	—
Rutile	—	467	898	—	—	—
Canada (shipments) (b)—						
Ilmenite.. .. .	736,100	375,832	559,205	863,726	1,032,122	665,851
Ceylon—						
Ilmenite.. .. .	—	—	—	6,000	10,000	4,153
India—						
Ilmenite.. .. .	296,221	309,161	298,236	246,000	171,445	135,930
Rutile	473	449	383	966	802	1,581
Malaya (a)—						
Ilmenite	91,733	74,826	72,851	118,085	106,871	101,368
Australia—						
Ilmenite concentrates (c)	71,155	69,948	83,577	106,586	166,400	182,144
Rutile concentrates ..	128,903	83,328	81,905	88,637	101,431	119,002
OTHER COUNTRIES						
Finland—						
Ilmenite concentrates ..	104,079	104,807	84,791	82,338	18,993	85,812
Norway—						
Ilmenite.. .. .	206,869	208,617	223,398	230,842	306,003	247,132
Rutile (d)	20	—	—	—	—	—
Portugal—						
Ilmenite.. .. .	346	452	1,887	895	97	67
Spain—						
Ilmenite.. .. .	8,747	16,215	7,244	10,952	29,629	46,939
Cameroun—						
Rutile	39	—	—	—	—	—
Egypt—						
Ilmenite.. .. . (f)	3,300	2,700	15,300	37,000 (f)	45,000 (f)	110,000 (f)
Rutile	—	—	1,033	1,000 (f)	1,000 (f)	1,100 (f)
Malagasy Republic—						
Ilmenite.. .. .	—	1,027	588	2,686	3,250	n.a.
Mozambique—						
Ilmenite.. .. .	—	—	10,251	700	—	—
Senegal—						
Ilmenite.. .. .	35,300	33,000	29,412	21,571	17,220	22,078
Rutile	205	1,033	—	—	174	724
South Africa—						
Ilmenite.. .. .	2,786	26,811 (e)	77,887	80,743	88,402	77,764
Rutile	—	493	3,019	3,299	3,110	3,192
Mexico—.. .. .						
Ilmenite.. .. .	—	149	—	—	—	—
United States (g)—						
Ilmenite (h)	676,054	502,980	566,862	702,118	653,939	721,183
Rutile	9,555	6,612	8,452	7,864	8,076	8,912

(a) Exports.

(b) Production of titanium dioxide slag (TiO₂) at Sorel was as follows (long tons): 1957—166,448; 1958—144,029; 1959—217,562; 1960—345,213; 1961—413,675; 1962—269,150.

(c) Despatches.

(d) Ore and concentrates.

(e) Including 269 long tons of mixed concentrates.

(f) United States Bureau of Mines' estimate.

(g) Production of metal (commercial titanium sponge) was as follows (long tons): 1957—15,401; 1958—4,094; 1959—3,480; 1960—4,742; 1961—6,006; 1962—6,009.

(h) Contains a mixed product containing ilmenite, leucoxene and rutile.

PRODUCTION OF TITANIUM MINERALS (cont.)

Long tons

Producing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Brazil—						
Ilmenite.. .. .	—	5,081	(a) 5,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Rutile	241	240	207	213	218	129
Japan (b)—						
Ilmenite.. .. .	13,402	5,247	5,062	5,138	5,883	4,773
Thailand—						
Ilmenite.. .. .	1,821	823	491	—	—	—
WORLD'S TOTAL*—						
Ilmenite	2,262,000	1,769,000	2,055,000	2,500,000	2,660,000	2,400,000
Rutile	139,400	92,600	95,900	103,000	115,000	130,000

*Excluding the U.S.S.R.

(a) United States Bureau of Mines' estimate.

(b) Production of metal (commercial titanium sponge) was as follows (long tons): 1957—3,029; 1958—1,630; 1959—2,438; 1960—2,271; 1961—2,247; 1962—1,489.

EXPORTS OF TITANIUM MINERALS, ETC.

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ferro-titanium	393	348	502	276	533	552
Gambia—						
Ilmenite.. .. .	13,917	28,896	13,202	—	—	—
Rutile	—	467	898	—	—	—
Canada—						
Ilmenite.. .. .	9,616	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Titanium dioxide slag (70% TiO ₂)	199,179	100,371	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Hong Kong—						
Titanium oxide.. .. .	88	142	155	130	153	92
India—						
Ilmenite.. .. .	347,212	283,667	276,631	(b) 158,526	(b) 112,678	(b) 86,626
Rutile sand	300	—	—	—	—	—
Malaya—						
Ilmenite	91,733	74,826	72,851	118,085	106,871	101,368
Australia—						
Rutile	119,052	75,615	80,938	93,706	99,652	117,291
Ilmenite.. .. .	37,811	56,243	68,649	75,319	144,009	155,075
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Titanium oxide.. .. .	458	655	4,337	9,021	5,849	9,931
Finland—						
Ilmenite.. .. .	101,471	95,409	63,539	64,131	34,397	37,176
France—						
Ferro-titanium	380	648	1,404	1,695	1,619	1,064
Titanium oxide.. .. .	171	156	2,604	10,150	17,147	20,957
Germany (Federal)—						
Titanium oxide	<i>n.a.</i>	34,493	38,722	45,914	48,285	49,898
Italy—						
Titanium oxide.. .. .	5,374	5,268	6,636	7,047	7,303	11,520
Netherlands—						
Titanium oxide.. .. .	83	319	956	2,422	650	120
Norway—						
Ilmenite.. .. .	(a) 202,184	(a) 224,538	} 214,311	257,091	298,549	230,094
Rutile	9	2				
Titanium oxide.. .. .	<i>n.a.</i>	<i>n.a.</i>	3,349	2,711	2,504	1,982
Portugal—						
Ilmenite.. .. .	364	101	100	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Spain—						
Ilmenite.. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	18,966	24,413
Sweden—						
Titanium minerals	185	15	15	14	48	26
Titanium oxide.. .. .	283	24	28	6	23	75
Yugoslavia—						
Titanium oxide	24	—	—	—	—	—
Cameroun—						
Rutile	14	33	5	28	—	10
Senegal—						
Ilmenite.. .. .	36,040	28,610	20,849	32,102	21,317	22,599
Rutile	76	905	—	—	—	—
South Africa—						
Ilmenite.. .. .	2,645	15,741	57,490	99,453	80,494	59,356
Rutile	—	155	1,409	3,688	1,874	289

(a) The figures refer to exports of "Other ores" which are mainly ilmenite.

(b) Years ended March 31 following that stated.

EXPORTS OF TITANIUM MINERALS, ETC.

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
United States—						
Ores and concentrates..	1,803	1,112	4,157	1,125	1,282	1,093
Titanium metal (a) ..	759	387	889	1,164	1,134	1,231
Ferro-titanium	327	288	286	219	189	116
Titanium oxide and pigments	47,285	33,050	32,395	30,049	27,771	25,977
Brazil—						
Titanium minerals ..	—	—	—	—	20	—
Japan—						
Titanium sponge metal	2,441	1,947	1,757	1,702	1,620	989
Titanium oxide.. ..	14,320	13,647	13,916	18,803	16,199	21,692
Thailand—						
Ilmenite.. .. .	1,131	492	394	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

(a) Including alloys and scrap.

IMPORTS OF TITANIUM MINERALS, ETC.

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ilmenite.. ..	255,412	256,899	243,886	338,517	273,354	275,890
Rutile	11,840	12,281	7,276	10,521	13,842	15,629
Titanium sponge	—	—	—	44	(c) 7	31
Other titanium metal	9	7	1	1	9	9
Titanium oxide.. ..	6,569	154	1,747	840	1,915	1,880
Canada—						
Titanium oxide, etc.	30,567	26,285	27,319	24,015	23,769	11,268
Hong Kong—						
Titanium oxide.. ..	1,156	2,013	1,861	2,452	1,941	2,338
India—						
Rutile	155	193	100	(b) 146	(b) 387	(b) 40
Titanium oxide.. ..	543	797	1,456	(b) 926	(b) 1,477	(b) 2,392
Australia (a)—						
Ilmenite.. ..	3,694	—	—	—	—	—
Titanium oxide.. ..	7,383	7,482	5,847	4,100	7,046	4,644
New Zealand—						
Titanium oxide.. ..	2,620	4,608	2,441	3,477	3,558	3,494
OTHER COUNTRIES						
Austria—						
Ferro-titanium	<i>n.a.</i>	<i>n.a.</i>	452	289	192	139
Titanium oxide.. ..	1,909	2,086	2,649	3,437	3,605	3,805
Belgium-Luxemburg						
E. U.—						
Ferro-titanium	53	35	113	175	319	182
Titanium white	5,596	6,367	7,333	9,013	5,698	7,082
Denmark—						
Titanium white	387	430	3,411	4,084	3,854	4,826
Finland—						
Titanium white	2,433	3,515	4,277	4,785	3,949	2,269
France—						
Titanium minerals	42,241	46,294	63,914	71,512	75,933	80,702
Titanium oxide.. ..	7,018	4,873	5,003	5,836	6,661	9,701
Germany (Federal)—						
Ilmenite.. ..	158,167	197,000	205,796	280,514	264,845	208,954
Other titanium minerals	19,635	8,707	13,930	18,948	96,282	68,574
Titanium metal	<i>n.a.</i>	41	116	131	189	274
Titanium oxide.. ..	<i>n.a.</i>	1,765	2,311	855	321	2,994
Greece—						
Titanium oxide.. ..	287	453	530	790	890	1,023
Hungary—						
Ferro-titanium	52	48	60	48	87	88
Iceland—						
Titanium oxide.. ..	161	195	169	261	242	215
Italy—						
Titanium minerals	58,951	41,214	36,288	51,645	81,323	67,587
Ferro-titanium	146	272	234	286	507	457
Titanium oxide.. ..	2,871	4,363	4,320	7,360	8,193	10,859
Netherlands—						
Ferro-titanium	39	32	32	36	43	28
Titanium oxide.. ..	12,573	11,589	16,384	19,627	17,648	18,396
Norway—						
Titanium oxide.. ..	<i>n.a.</i>	<i>n.a.</i>	5,432	5,382	4,513	6,330
Poland—						
Titanium oxide.. ..	<i>n.a.</i>	723	1,013	1,398	1,990	<i>n.a.</i>
Portugal—						
Rutile	239	199	75	<i>n.a.</i>	255	326
Titanium oxide.. ..	595	703	857	1,236	1,271	1,430

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

(c) Excess of re-exports.

IMPORTS OF TITANIUM MINERALS, ETC. (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES (cont.)						
Sweden—						
Titanium minerals ..	4,487	4,475	2,981	2,533	3,418	4,423
Ferro-titanium ..	n.a.	n.a.	725	1,029	644	264
Titanium oxide ..	6,916	7,231	9,383	10,333	9,997	12,566
Switzerland—						
Titanium oxide ..	n.a.	n.a.	n.a.	4,550	4,943	6,078
Yugoslavia—						
Rutile ..	293	256	1,059	1,458	424	680
Titanium oxide ..	n.a.	413	851	852	897	1,382
Algeria—						
Titanium minerals ..	350	458	229	130	n.a.	n.a.
Titanium oxide ..	140	282	267	355	n.a.	n.a.
Congo Republic—						
Titanium oxide ..	337	442	430	n.a.	n.a.	n.a.
Morocco—						
Titanium oxide ..	63	123	149	178	236	286
Tunisia—						
Titanium oxide ..	170	63	32	50	83	87
Mexico—						
Titanium oxide ..	3,296	3,587	4,234	4,600	207	60
United States—						
Ilmenite (a) ..	411,029	310,843	331,863	237,183	174,853	148,602
Rutile ..	75,747	32,646	20,740	26,102	24,551	32,112
Titanium metal ..	3,154	1,851	1,396	1,992	2,223	825
Ferro-titanium ..	114	90	113	74	163	107
Titanium compounds ..	60	633	2,515	5,521	8,056	14,800
Argentina—						
Titanium oxide ..	2,543	3,497	2,495	3,634	4,534	4,363
Brazil—						
Titanium oxide ..	2,434	2,504	2,727	3,482	4,278	5,371
Chile—						
Titanium oxide ..	507	789	927	1,190	1,652	n.a.
Colombia—						
Titanium oxide ..	1,560	848	1,183	1,499	1,745	2,119
Peru—						
Titanium oxide ..	28	276	394	497	635	755
Venezuela—						
Titanium oxide ..	1,541	1,843	2,048	1,250	2,193	2,302
Formosa—						
Titanium oxide ..	n.a.	n.a.	n.a.	306	374	526
Japan—						
Ilmenite ..	95,549	58,950	81,144	126,586	139,792	120,366
Titanium oxide ..	333	61	108	147	2,122	59
Korea (South)—						
Titanium oxide ..	n.a.	457	657	775	999	1,291
Philippine Republic—						
Titanium oxide ..	n.a.	n.a.	n.a.	n.a.	1,954	2,682
Turkey—						
Titanium oxide ..	114	271	456	238	910	973

(a) Including titanium dioxide slag (70% TiO₂) imported from Canada.

TUNGSTEN
PRODUCTION OF TUNGSTEN ORES AND CONCENTRATES

Long tons

Producing Country and Description	1957	1958	1959	1960	1961	1962	Estimated WO ₃ Content					
							1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES												
United Kingdom—												
Concentrates ..	49	2	—	—	—	—	30	1	—	—	—	—
Southern Rhodesia—												
Concentrates ..	148	85	30	9	46	19	107	61	22	6	33	14
Tanganyika—												
Wolfram ..	3	—	—	—	9	—	2	—	—	—	5	—
Uganda—												
Wolfram ..	190	47	51	102	115	n.a.	124	31	34	68	79	n.a.
Canada (a)—												
Concentrates ..	1,337	456	—	—	—	3	858	308	—	—	—	2
Hong Kong—												
Wolfram ..	36	38	39	31	17	15	23	25	25	20	11	10
India—												
Concentrates ..	—	—	1	3	9	10	—	—	1	2	6	6
Malaya—												
Wolfram ..	30	33	14	13	14	9	20	22	10	9	10	6
Scheelite ..	19	12	6	23	17	—	14	9	5	18	13	—
Australia—												
Wolfram ..	657	517	903	1,131	1,142	489	459	372	653	820	827	350
Scheelite ..	1,449	733	1	420	1,017	995	950	478	—	291	709	691
New Zealand—												
Scheelite ..	31	3	9	8	5	8	20	2	6	5	3	5
TOTAL ..							2,607	1,309	756	1,239	1,696	1,100
OTHER COUNTRIES												
Austria—												
Concentrates ..	109	110	116	185	242	250	75	77	82	130	170	172
Finland—												
Concentrates ..	—	n.a.	n.a.	—	n.a.	—	—	87	22	—	34	—

(a) Shipments (chiefly scheelite).

PRODUCTION OF TUNGSTEN ORES AND CONCENTRATES (cont.)

Long tons

Producing Country and Description	Estimated WO ₃ Content						1962
	1957	1958	1959	1960	1961	1962	
OTHER COUNTRIES (cont.)							
France— Concentrates	895	949	791	r 597	647	614	
Italy— Concentrates	17	9	5	7	2	—	511
Portugal— Scheelite	252	83	52	62	68	52	34
Wolfram	3,668	1,654	1,990	2,403	2,442	1,947	1,444
Spain— Concentrates	1,196	1,142	{ 170	334	434	n.a.	
Tin-tungsten concentrates			{ 721	686	775	n.a.	
Sweden— Concentrates	476	522	290	331	400	n.a.	396
Yugoslavia	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Chad	—	n.a.	—	—	—	—	n.a.
Congo Republic— Concentrates	508	659	542	n.a.	n.a.	n.a.	
Tin-tungsten ore	841	775	657	n.a.	n.a.	n.a.	
Egypt— Concentrates	—	—	—	—	—	—	
Rwanda and Burundi— Concentrates	657	230	141	415	527	136	
South Africa— Concentrates	244	68	33	31	24	22	
Tin-scheelite concentrates	n.a.	n.a.	n.a.	—	—	—	
South West Africa— Wolfram	35	13	—	—	—	—	
Scheelite	4	—	—	2	6	2	1
Tin-wolfram concentrates	722	101	4	483	579	575	91
Mexico	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	46
United States— Concentrates	7,535	(a) 3,382	(a) 3,258	(a) 6,540	(a) 7,362	7,526	4,515

(a) Shipments from mine.

(b) United States Bureau of Mines' estimate.

PRODUCTION OF TUNGSTEN ORES AND CONCENTRATES (cont.)

Long tons

Producing Country and Description	1957	1958	1959	1960	1961	1962	Estimated WO ₃ Content					
							1957	1958	1959	1960	1961	1962
OTHER COUNTRIES (cont.)												
Argentina—												
Concentrates ..	1,119	904	684	689	735	n.a.	771	604	443	478	n.a.	n.a.
Bolivia (a)—												
Concentrates ..	n.a.	n.a.	2,254	1,971	n.a.	n.a.	2,577	1,316	1,431	1,270	1,567	1,499
Brazil—												
Wolfram and scheelite ..	1,007	2,093	1,713	1,390	1,013	n.a.	604	1,256	1,028	834	608	n.a.
Peru—												
Concentrates ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	651	531	(c) 290	288	(c) 229	(c) 234
Burma—												
Tungsten concentrates ..	382	201	230	349	309	216	229	121	138	209	185	130
Tin-wolfram concentrates	1,986	1,172	743	1,096	1,186	1,162	790	470	300	440	470	460
China—												
Concentrates (b) ..	15,000	15,000	20,000	20,000	20,000	20,000	9,000	9,000	11,000	12,000	12,000	12,000
Japan—												
Concentrates ..	886	672	906	822	812	906	613	471	640	580	553	621
Korea—												
South—												
Concentrates ..	3,765	2,964	2,878	4,837	6,203	5,705	2,400	1,900	1,900	3,100	4,000	3,700
North—												
Concentrates (b) ..	2,500	3,000	3,300	5,000	5,000	5,000	1,500	1,800	2,000	3,000	3,000	3,000
Thailand—												
Concentrates ..	893	598	457	401	467	387	580	385	300	260	303	248
TOTAL*							30,000	24,000	25,000	30,000	32,000	31,000
WORLD'S TOTAL*							33,000	25,000	25,000	31,000	34,000	32,000

*Excluding tungsten ores produced in the U.S.S.R.

(a) Exports.

(b) Estimated.

(c) Recoverable.

EXPORTS OF TUNGSTEN, ETC.

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Tungsten ore	5	5	81	86	35	20
Ferro-tungsten	561	993	1,282	1,048	1,445	1,584
Tungsten metal, etc. ..	54	44	50	43	31	41
Nigeria—						
Tungsten ore	1	—	1	—	—	—
Rhodesia and Nyasaland—						
Tungsten ores	158	62	62	12	33	26
Tanganyika—						
Wolfram ore	—	—	—	—	9	<i>n.a.</i>
Uganda—						
Wolfram ore	190	27	12	68	189	<i>n.a.</i>
Canada—						
Tungsten ore	1,383	459	—	—	—	—
Hong Kong—						
Tungsten ore	4	15	74	30	—	—
India—						
Wolfram ore	—	11	—	—	—	2
Malaya—						
Wolfram	39	37	53	11	18	4
Scheelite	4	5	29	22	14	—
Australia (a)—						
Wolfram ores and concentrates	801	387	596	1,192	1,055	760
(WO ₃ content)	547	277	431	862	767	555
Scheelite ores and concentrates	1,267	1,149	167	185	816	974
(WO ₃ content)	835	757	119	131	567	676
New Zealand—						
Scheelite	15	11	14	15	6	<i>n.a.</i>
OTHER COUNTRIES						
Austria—						
Ore	—	—	155	268	196	298
Belgium-Luxemburg E.U.—						
Ferro-tungsten	—	—	6	14	101	118
France—						
Tungsten ore	463	233	416	359	388	478
Ferro-tungsten	1	15	149	187	301	274
Tungsten metal, etc. ..	12	15	32	56	68	65
Germany (Federal)—						
Tungsten metal, etc. ..	200	198	245	248	240	217
Netherlands—						
Ore	160	84	24	61	77	114
Portugal—						
Tungsten ores	2,691	1,365	2,449	2,380	2,584	2,008
do. residues	52	—	—	371	31	—
Ferro-tungsten	216	61	124	149	—	<i>n.a.</i>
Spain—						
Tungsten ore	530	744	596	616	703	281
Sweden—						
Ore	117	240	87	67	47	—
Tungsten metal, etc. ..	<i>n.a.</i>	<i>n.a.</i>	37	56	45	26
Ferro-tungsten	48	64	184	126	20	104
Congo Republic (c)—						
Tungsten ores	1,042	1,147	1,212	1,123	(b) 600	(b) 100
South Africa—						
Tungsten ore	162	—	30	—	—	—
South West Africa—						
Tungsten ore	48	—	—	—	—	3
Tin-tungsten ore	670	126	13	—	360	530

(a) Years ended June 30 of that stated.

(b) Estimated.

(c) Including Rwanda and Burundi.

EXPORTS OF TUNGSTEN, ETC. (cont.)

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Mexico—						
Tungsten ore and concentrates	253	6	126	185	445	60
(WO ₃ content)	157	4	73	109	103	47
United States—						
Ore and concentrates	146	20	1	565	185	35
Ferro-tungsten	2	1	34	—	—	5
Tungsten metal, alloys and scrap	r 127	r 49	r 169	r 359	113	55
Tungsten powder	64	58	71	74	50	66
Argentina—						
Tungsten ore	1,432	578	—	350	15	2,067
Bolivia—						
Tungsten ore (WO ₃ content)	2,577	1,316	1,431	1,270	1,667	1,499
Brazil—						
Tungsten ores	1,632	2,001	1,223	1,545	861	615
Peru—						
Tungsten ore and concentrates (WO ₃ content)	477	518	381	232	186	234
Burma—						
Ore and concentrates	1,059	784	1,001	841	686	278
Tin-tungsten ores	615	625	174	171	264	397
Japan—						
Tungsten ore	20	20	—	—	—	n.a.
Tungsten metal	—	1	1	1	18	23
Ferro-tungsten	5	1	—	—	—	n.a.
Korea (South)—						
Tungsten ore	2,421	4,024	3,283	3,936	5,833	4,639
Thailand—						
Tungsten ore	946	527	367	609	246	190

IMPORTS OF TUNGSTEN, ETC.

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Tungsten ores	4,069	4,288	4,357	5,639	5,132	5,389
Tungsten metal, etc. ..	7	3	8	13	9	6
Canada—						
Tungsten ore	103	395	350	516	224	1,274
Ferro-tungsten	76	89	370	438	231	127
Malaya—						
Wolfram	—	—	12	—	—	—
Australia (b)—						
Tungsten metal	7	11	9	18	10	10
OTHER COUNTRIES						
Austria—						
Tungsten ore	1,171	1,529	2,525	3,105	2,934	2,686
Tungsten metal, etc. ..	<i>n.a.</i>	<i>n.a.</i>	13	33	37	35
Ferro-tungsten	78	—	415	254	244	302
Belgium-Luxemburg						
E.U.—						
Tungsten ore	—	12	543	29	99	70
Ferro-tungsten	31	29	71	80	234	132
France—						
Tungsten ore	1,497	1,515	1,513	1,817	2,298	1,980
Tungsten metal, etc. ..	5	9	33	23	35	36
Germany (Federal)—						
Tungsten ore	2,346	3,805	4,634	5,124	5,240	4,681
Tungsten metal, etc. ..	179	256	103	264	161	122
Hungary—						
Ferro-tungsten	143	—	—	—	—	—
Italy—						
Tungsten ore	184	72	101	176	92	116
Tungsten metal, etc. ..	14	9	13	27	23	34
Ferro-tungsten	79	55	41	116	311	185
Netherlands—						
Tungsten ore	17	97	113	341	457	203
Ferro-tungsten	1	6	3	3	4	21
Sweden—						
Tungsten ore	840	403	705	972	1,070	1,312
Tungsten metal, etc. ..	<i>n.a.</i>	<i>n.a.</i>	60	62	82	75
Ferro-tungsten	141	62	185	411	396	260
U.S.S.R. (a)—						
Tungsten concentrates	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	18,600	18,000	12,800
Yugoslavia—						
Tungsten metal, etc. ..	1	1	10	7	4	6
Tungsten concentrates ..	—	—	28	115	91	422
Ferro-tungsten	47	28	103	59	128	60
United States—						
Tungsten ore	11,809	5,359	4,325	2,722	1,767	3,260
(<i>W</i> O ₃ content)	7,891	3,682	3,059	1,983	1,195	2,239
Tungsten metal and carbide						
(<i>W</i> content)	37	45	88	71	25	222
Ferro-tungsten	225	87	294	100	191	294
Tungsten ingots, bars, scrap, etc.	115	111	201	<i>r</i> 154	100	119
Japan—						
Tungsten ore	2,300	356	455	2,835	4,022	2,162
Tungsten metal	1	—	—	—	—	7

(a) Imports from China.

(b) Years ended June 30 of that stated.

URANIUM MINERALS
PRODUCTION OF URANIUM MINERALS
(Metal content)

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Northern Rhodesia ..	20	38	29	—	—	—
Canada (a) ..	5,024	10,148	12,032	9,652	7,299	6,384
Australia (b) ..	£ 50,859,836	102,395,044	122,918,724	99,132,645	68,929,772	50,458,183
	400	550	950	1,150	1,250	1,050
OTHER COUNTRIES						
Finland	—	—	(b) 25	(b) 40	n.a.	n.a.
France	291	487	719	968	1,168	1,019
Italy	1	—	r 1	(b) 7	n.a.	n.a.
Congo Republic ..	(b) 1,700	1,793	1,761	900	121	—
Gabon	—	—	—	—	300	(b) 350
Malagasy Republic (c) ..	(b) 40	(b) 55	88	(b) 60	(b) 50	(b) 60
South Africa ..	r 4,323	r 4,737	r 4,867	r 4,874	4,149	3,789
	£ 648,000,000	650,000,000	654,500,000	654,000,000	645,000,000	648,000,000
United States (d) ..	6,540	9,510	12,410	13,364	13,136	12,879
Argentina	£ 61,000,000	84,700,000	107,000,000	118,000,000	103,000,000	97,000,000
	16	(b) 15	(b) 10	(b) 11	n.a.	n.a.
WORLD'S TOTAL (b) ..	23,000	35,000	40,000	40,000	37,000	35,000

(a) Producers' shipments.

(b) Estimated.

(c) Uranium content of uranothorianite (average content 12% uranium).

(d) In addition, the following quantities of uranium were recovered from phosphate rock (long tons): 1958—8; 1959—23; 1960—86; 1961—39; 1962—Nil.

Uranium is known to have been produced in the U.S.S.R., in several Eastern European countries, Portugal, Spain, Sweden, Western Germany, Mozambique and elsewhere. An allowance has been made for these countries in the world's total.

EXPORTS OF URANIUM MINERALS, ETC.

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Canada— Ores and concentrates £	47,736,866	101,284,232	115,949,495	96,890,046	67,883,901	55,549,230
OTHER COUNTRIES						
Congo Republic— Radium products (Ra content) Mgrams ..	89,313	69,786	101,619	27,600	26,900	28,700
Gabon— Concentrates Long tons ..	—	—	—	—	954	1,157
Malagasy Republic— Uranothorianite Long tons	329	138	152	572	772	935
South Africa— Prescribed minerals (a) £	49,988,632	53,661,840	53,866,953	54,266,382	39,685,813	37,195,326
United States— Ores, concentrates and compounds Long tons	n.a.	3	9	9	19	12
Metal and alloys Long tons	n.a.	40	6	5	10	—
Radium metal (Ra content) Mgrams.	750	140	2,207	712	334	328

(a) Mainly uranium but includes some thorium.

IMPORTS OF URANIUM MINERALS, ETC.

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom— Radium compounds Grains	60	441	n.a.	n.a.	n.a.	n.a.
Canada— Radium and compounds .. £	497,765	193,512	142,745	111,075	98,158	76,205
OTHER COUNTRIES						
Belgium-Luxemburg E.U.— Ore Long tons	n.a.	n.a.	627	3,058	2,443	—
France— Ore Long tons	n.a.	n.a.	n.a.	n.a.	120	1,396
United States— Concentrates Long Tons (U ₃ O ₈ content) ..	10,559	14,732	16,179	14,080	11,531	10,429
Radium salts Mgrams.	76,206	38,419	32,967	23,333	12,947	46,962
Brazil— Radium and radium products Mgrams.	497	96	681	—	—	—

VANADIUM
PRODUCTION OF VANADIUM ORES
(Metal content)

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Northern Rhodesia ..	—	—	—	—	232	4
OTHER COUNTRIES						
Finland	259	384	496	558	626	(e) 629
France (a)	38	117	47	100	54	n.a.
Angola (b)	1	18	3	—	—	—
South Africa .. .	7	283	286	586	1,271	1,244
South West Africa ..	200	413	642	749	1,023	904
United States (c) ..	6,513	6,488	6,600	7,185	5,678	6,828
Argentina	—	4	4	n.a.	n.a.	n.a.
WORLD'S TOTAL (d) ..	r 7,020	r 7,707	r 8,078	r 9,200	9,000	9,700

(a) By-product vanadium from aluminium plants.

(c) Shipments.

(b) Vanadium content of vanadium-lead ore.

(e) Estimated

(d) Totals represent the sum of the countries shown and exclude vanadium ore known to have been produced in Mexico and other countries. Vanadiferous iron concentrates (about 0.5% V) are produced in Norway.

EXPORTS OF VANADIUM, ETC.

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom— Ferro-vanadium ..	9	7	14	94	19	5
OTHER COUNTRIES						
Belgium-Luxemburg E.U.— Ferro-vanadium ..	—	1	—	10	95	228
Finland— Oxide	—	—	—	1,878	1,981	1,286
France— Ferro-vanadium ..	53	55	73	336	166	68
Italy— Oxide	—	—	2	1	45	—
Sweden— Ferro-vanadium ..	43	80	97	183	141	155
Congo Republic— Ore	—	—	—	1,834	n.a.	n.a.
South Africa— Oxide	5	519	521	1,034	(b) 2,258	1,463
South West Africa— Concentrates (V content)	252	(a) 300	r (a) 350	r (a) 600	(a) 700	(a) 600
Mexico— Concentrates	47	n.a.	n.a.	n.a.	n.a.	n.a.
United States— Ore, concentrates, etc. (V content)	446	563	1,107	3,294	1,858	902
Flue dust and other waste (V content) ..	52	5	37	35	82	73
Ferro-vanadium ..	120	68	135	144	107	179

(a) Estimated.

(b) Including 46 tons of ammonium vanadate.

IMPORTS OF VANADIUM, ETC.

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom (a)—						
Ferro-vanadium	<i>n.a.</i>	<i>n.a.</i>	—	—	71	24
Oxide	21	282	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Other compounds	6	64	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Ferro-vanadium	12	12	19	36	21	37
Oxide	17	29	14	55	264	437
France—						
Ore	—	42	<i>n.a.</i>	<i>n.a.</i>	—	252
Oxide	396	346	424	1,006	1,025	652
Germany (Federal)—						
Ore	—	—	—	5	<i>n.a.</i>	<i>n.a.</i>
Hungary—						
Ferro-vanadium	76	106	89	59	89	138
Italy—						
Ore	254	51	—	—	1	—
Oxide	32	25	40	69	127	39
Ferro-vanadium	65	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Netherlands—						
Ferro-vanadium	5	9	3	4	11	9
Sweden—						
Ore	1	—	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ferro-vanadium	24	7	39	67	61	37
United States—						
Ore	—	—	5	4	—	—
(V content)	—	—	3	2	—	—
Japan—						
Ore	405	153	814	284	981	593
Ferro-vanadium	37	—	—	—	—	<i>n.a.</i>

(a) Excluding vanadium contained in petroleum soot, slags and residues.

VERMICULITE
PRODUCTION OF VERMICULITE

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Kenya	30	86	100	253	—	20
Southern Rhodesia	411	250	45	—	—	—
Tanganyika	—	82	111	18	140	64
India	—	—	2	15	622	366
OTHER COUNTRIES						
Egypt	29	270	296	118	—	—
Morocco	131	—	—	—	—	—
South Africa	55,910	48,495	46,784	61,627	63,498	76,370
Sudan	—	118	98	—	50	—
United States (b)	164,274	170,146	184,446	r 177,743	184,497	183,703
Argentina	256	144	(a) 785	(a) 785	(a) 785	(a) 785
WORLD'S TOTAL*	221,000	220,000	233,000	240,000	250,000	261,000

*Excluding vermiculite produced in the U.S.S.R. and Brazil.

(a) United States Bureau of Mines' estimate.

(b) Sold or used by producers.

EXPORTS OF VERMICULITE

Long tons

Exporting Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Rhodesia and Nyasaland	r 2	4	7	4	1	4
OTHER COUNTRIES						
South Africa	44,197	43,718	52,614	56,666	63,455	69,527

IMPORTS OF VERMICULITE

Long tons

Importing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom (a)	11,055	9,621	15,263	r 14,558	16,608	23,437
Canada	(£137,314)	(£148,238)	(£167,364)	(£153,603)	(£162,116)	(£178,211)
Australia (c)	n.a.	n.a.	n.a.	1,198	1,866	1,780
OTHER COUNTRIES						
France (b)	7,453	10,925	8,193	7,711	14,480	15,436
Mexico	429	672	808	795	706	334
United States (a)	7,751	7,616	10,597	11,068	11,529	10,802
Venezuela	n.a.	n.a.	262	162	150	57

(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	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom	835	241	—	250	—	41
Northern Rhodesia (c) ..	29,554	30,250	29,895	29,794	29,861	39,800
Canada (h)	369,412	379,553	353,579	363,279	371,432	413,522
India	4,033	4,001	5,401	5,298	5,064	5,446
Australia	(j) 291,582	r 293,708	r 275,411	r 317,489	311,157	337,536
TOTAL	695,416	r 707,753	r 664,286	r 716,110	717,514	796,345
Irish Republic	1,545	—	1,163	1,229	164	—
OTHER COUNTRIES						
Austria	7,569	7,598	8,030	8,741	8,064	8,713
Bulgaria	44,400	49,200	54,700	57,800	54,700	n.a.
Finland (b)	42,326	46,200	53,200	41,364	45,860	51,347
France	12,181	14,630	15,729	16,905	15,432	15,900
Germany (Federal) (i) ..	92,789	84,046	80,800	84,964	85,883	85,707
Germany (East) (g) ..	6,900	6,900	6,900	6,900	6,900	6,900
Greece	10,249	15,495	11,508	13,813	17,104	17,900
Italy	128,034	r 134,820	r 130,444	122,591	118,171	121,823
Norway	6,906	8,942	9,739	10,174	9,183	11,659
Poland	129,100	120,800	127,300	141,800	137,372	142,800
Portugal	173	15	—	—	—	11
Spain	79,550	81,040	84,505	84,750	86,592	74,479
Sweden	66,543	69,471	77,276	r 73,058	74,000	62,372
U.S.S.R. (c) (e)	300,000	325,000	330,000	340,000	400,000	400,000
Yugoslavia	57,171	59,071	59,715	55,491	58,936	60,148
Algeria	29,235	32,790	38,191	39,500	41,472	41,000
Congo Republic	105,589	112,184	r 66,139	107,457	97,525	93,681
Congo, Republic of	n.a.	n.a.	n.a.	n.a.	1,261	n.a.
Morocco	48,093	48,481	54,733	r 48,392	40,135	33,876
South Africa	1,059	—	—	—	15	—
South West Africa	49,171	39,964	19,273	24,000	24,000	25,000
Tunisia	3,495	4,070	3,270	3,760	3,340	4,267
Cuba	671	(g) 100	(d) 168	(d) 69	—	—
Greenland	8,161	5,930	8,239	9,960	6,714	2,200
Guatemala (b)	9,200	4,712	—	9,884	7,809	(d) 2,242
Honduras (d)	2,312	1,281	1,274	4,209	6,117	6,293
Mexico	237,221	220,566	259,767	258,280	264,725	246,724
United States (b)	474,763	367,862	379,735	388,774	414,634	451,331
Argentina	29,080	36,000	39,000	34,000	30,000	(g) 30,000
Bolivia (a)	19,355	13,997	3,339	3,963	5,248	3,588
Chile	2,013	1,197	996	1,035	160	(g) 137
Colombia (g)	—	—	700	r 300	700	300
Peru (b)	152,017	r 132,419	(b) 140,838	(b) 175,309	(b) 171,123	(b) 159,678
Burma	9,085	10,769	10,486	9,759	7,233	8,068
China (g)	39,000	45,000	64,000	79,000	98,000	98,000
Iran (f)	4,500	8,800	6,600	r 8,400	13,300	7,400
Japan	133,858	140,715	140,089	r 154,259	165,602	189,000
Korea (South)	r 300	r 350	r 3	40	450	400
Korea (North) (g)	70,000	80,000	80,000	80,000	80,000	80,000

Zinc ore is also produced in Czechoslovakia, Roumania and North Vietnam.

(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.

(j) Excluding zinc in lead concentrates and not, therefore, strictly comparable with subsequent years.

PRODUCTION OF ZINC ORE (cont.)

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES (cont.)						
Philippine Republic ..	297	—	5	4,899	3,261	4,390
Thailand	1,625	536	750	1,045	884	(a) 900
Turkey	(a) 2,000	(a) 2,000	(a) 1,000	2,500	1,900	(a) 3,000
TOTAL	2,400,000	2,300,000	2,400,000	2,500,000	2,600,000	2,600,000
WORLD'S TOTAL ..	3,100,000	3,000,000	3,100,000	3,200,000	3,300,000	3,400,000

(a) Estimated.

METAL PRODUCTION OF ZINC

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom ..	76,885	74,587	72,966	74,303	92,884	97,276
Northern Rhodesia ..	29,554	30,250	29,895	29,794	29,861	39,800
Canada	220,818	225,083	227,952	233,007	239,292	250,141
Australia	110,348	114,773	116,461	120,230	138,694	167,927
TOTAL	437,605	444,693	447,274	457,334	500,731	555,144
OTHER COUNTRIES						
Austria	9,189	10,444	11,257	11,339	11,876	11,897
Belgium	231,922	213,912	220,759	243,653	241,670	202,904
Bulgaria	7,394	8,104	8,950	16,642	21,772	21,000
France	128,256	146,077	143,945	148,023	163,237	166,000
Germany (Federal) ..	180,847	173,906	178,331	179,499	183,000	168,000
Germany (East) (a) ..	—	—	—	—	1,000	5,000
Italy	73,310	r 71,446	r 72,765	78,141	77,165	76,440
Netherlands	29,540	26,147	31,647	35,510	38,967	36,464
Norway	47,588	44,804	48,007	43,268	46,009	43,715
Poland	156,261	160,047	165,000	173,000	179,000	178,000
Spain	21,552	24,321	24,142	44,254	51,665	61,540
U.S.S.R. (a)	300,000	325,000	330,000	340,000	400,000	400,000
Yugoslavia	28,994	30,754	31,446	35,367	36,286	38,683
Congo Republic	48,417	52,594	53,944	52,515	56,060	55,017
Mexico	55,672	56,544	54,787	52,070	50,999	56,009
United States (b) (c) ..	880,175	697,541	713,095	713,854	756,067	785,174
Argentina	13,814	14,172	12,594	15,756	14,211	16,506
Peru	29,002	28,602	r 25,659	31,886	31,255	32,236
China (d)	37,000	40,000	59,000	69,000	89,000	89,000
Japan	132,614	135,273	153,079	172,686	203,734	235,832
Korea (North) (d) .. .	4,700	20,000	24,000	45,000	58,000	58,000
TOTAL	2,400,000	2,300,000	2,300,000	2,500,000	2,700,000	2,700,000
WORLD'S TOTAL .. .	2,800,000	2,700,000	2,800,000	2,900,000	3,200,000	3,300,000

Zinc is also produced in Czechoslovakia, Roumania and North Vietnam.

(a) Estimated.

(b) In addition secondary zinc recovered was as follows (long tons):

1957	235,807	1960	237,339
1958	205,654	1961	212,471
1959	246,655	1962	233,944

(c) The production by grades (including redistilled secondary) was as follows (long tons):

	1957	1958	1959	1960	1961	1962
A—High grade—Special ..	316,109	266,466	295,814	318,933	315,595	350,804
Ordinary	135,997	77,553	64,100	63,689	79,907	84,094
B—Intermediate grade .. .	28,805	17,311	15,619	14,144	13,721	12,590
C and D—Brass special .. .	75,260	73,072	67,237	74,560	62,215	67,813
Selected	1,027	1,161	1,262	65	—	116
E—Prime Western	387,692	303,590	320,686	303,829	333,947	322,328

(d) United States Bureau of Mines' estimate.

PRODUCTION OF ELECTROLYTIC ZINC IN CERTAIN COUNTRIES*

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Northern Rhodesia ..	20,400	20,600	21,200	18,800	22,600	26,500
Canada	220,818	225,083	227,952	233,007	239,292	250,141
Australia (Tasmania) ..	110,348	114,773	116,461	120,230	138,694	167,927
OTHER COUNTRIES						
Austria	9,189	10,444	11,257	11,339	11,876	11,897
France	48,767	59,300	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Italy	62,856	60,878	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Norway	47,588	44,804	48,007	43,268	45,792	43,715
Poland	58,300	65,500	69,500	72,600	77,700	80,800
Congo Republic ..	48,417	52,594	53,944	52,515	56,060	55,017
United States ..	365,610	291,472	250,279	285,515	289,642	316,195
Japan	83,419	83,668	98,222	107,096	132,265	154,206

*This production is already included in the Metal table.

PRODUCTION OF ZINC DUST IN CERTAIN COUNTRIES

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom ..	11,246	10,256	12,194	14,265	11,862	10,861
Australia	2,199	2,190	2,575	2,697	3,131	3,660
OTHER COUNTRIES						
France	2,181	1,872	2,438	3,719	4,885	4,845
Germany (Federal) ..	8,524	7,634	9,035	10,503	8,592	8,641
United States	23,853	23,671	29,248	27,489	31,046	36,587
Japan	5,189	4,587	4,880	5,959	7,591	9,142

PRODUCTION OF ROLLED ZINC SHEETS, PLATES AND STRIPS
IN CERTAIN COUNTRIES

Long tons

Producing Country	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom (a) ..	22,548	25,222	23,852	25,350	27,401	24,178
OTHER COUNTRIES						
France	61,647	69,268	66,223	61,456	68,605	62,028
United States (b) ..	35,475	34,704	36,310	33,031	35,355	36,346
Japan	6,393	5,692	6,722	6,856	6,995	7,157

(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		
1957	11,327			1960	10,080	
1958	11,401			1961	11,338	
1959	13,083			1962	12,104	

EXPORTS OF ZINC*

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore and concentrates ..	498	200	4	4,976	38	2,192
Unwrought	1,062	1,649	1,441	2,942	2,135	7,048
Semi-manufactures(a)(d)	3,085	5,811	5,165	7,303	5,998	7,218
Oxide	6,831	9,024	11,094	7,911	9,479	9,644
Lithopone, etc... ..	2,467	3,379	4,450	6,264	6,194	5,447
Nigeria—						
Ore and concentrates ..	—	—	—	r 346	—	—
Rhodesia and Nyasaland—						
Ores and concentrates ..	2,415	—	—	—	952	1,843
Unwrought	29,666	27,933	30,473	29,435	25,258	41,051
Canada—						
Ore (Zn content)	167,090	194,485	161,682	151,691	177,966	216,479
Unwrought	180,363	174,739	160,315	184,903	185,957	188,146
Scrap (a)	4,783	4,992	5,343	4,761	3,165	4,903
Oxide	924	1,322	1,153	645	497	1,563
Hong Kong—						
Unwrought (a)	426	362	443	1,256	1,388	523
Scrap	n.a.	n.a.	77	175	7	30
Semi-manufactures (a)	463	540	346	282	215	164
Oxide	49	43	45	91	24	17
Lithopone	637	380	407	29	593	47
India—						
Concentrates, etc. ..	6,383	4,833	12,417	(c) 9,638	(c) 10,190	(c) 11,653
Dross, scrap and ashes ..	745	619	1,593	(c) 260	(c) 500	(c) 140
Semi-manufactures (a)	37	29	179	(c) 349	(c) 314	(c) 67
Malaya—						
Unwrought (a)	1	—	8	4	2	2
Semi-manufactures (a)	99	255	194	274	249	302
Australia (b)—						
Ores and concentrates (Zn content)	160,267	158,253	152,414	136,706	175,231	145,035
Unwrought	39,676	30,210	44,998	31,904	30,322	73,148
Scrap	(e) 259	(e) 393	(e) 275	(e) 544	6,024	156
Semi-manufactures ..	1,991	1,379	1,351	1,272	5,003	1,943
Oxide	265	79	127	105	79	94
Irish Republic—						
Ores and concentrates	3,390	1,057	2,599	2,891	1,537	—
OTHER COUNTRIES						
Austria—						
Ore	15	1,987	20	86	39	21
Unwrought (a)	3,412	4,008	4,630	5,198	5,015	3,631
Scrap	673	1,034	154	107	59	84
Lithopone	1,431	1,546	2,042	2,347	2,402	2,034
Belgium-Luxemburg						
E.U.—						
Ore	55,350	53,437	63,884	44,970	70,357	75,661
Unwrought	134,187	128,463	121,181	141,351	143,640	110,074
Scrap	2,892	4,854	6,629	8,803	6,056	4,031
Semi-manufactures (a)	30,116	29,012	23,766	24,570	28,461	27,587
Lithopone, etc... ..	15,492	10,883	15,050	21,321	22,311	19,686

*In these tables the description "unwrought" zinc corresponds to item 686.1 in the Standard International Trade Classification and comprises blocks, pigs, slabs, etc. "Semi-manufactures" corresponds to S.I.T.C. 284.0 (8) and 686.2, and includes zinc dust as well as rods, wire, sheets, tubes, pipes, etc.

(a) Including alloys.

(d) Including unwrought alloys.

(b) Years ended June 30 of that stated.

(e) Including shavings.

(c) Years ended March 31 following that stated.

EXPORTS OF ZINC (cont.)

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Denmark—						
Unwrought	315	2,516	1,169	2,309	406	129
do. alloys	44	1,561	3,104	2,186	2,471	1,980
Scrap	992	1,107	1,191	1,374	887	1,836
Finland—						
Concentrates	90,083	88,644	118,853	88,451	85,509	99,870
Unwrought	1	411	1,054	193	85	—
France—						
Ore	1,279	—	12	23,821	23,719	7,167
Unwrought	280	442	4,256	5,648	2,182	4,559
do. alloys	2	12	279	262	95	183
Semi-manufactures (a)	1,347	1,507	2,267	2,690	4,061	3,729
Oxide	1,723	2,260	3,402	5,354	4,824	4,309
Lithopone, etc. . .	524	558	716	1,629	1,543	1,082
Germany (Federal)—						
Ore	829	9,188	16,938	16,659	18,867	12,737
Unwrought (a)	23,340	28,397	19,658	27,374	31,200	24,991
Scrap (a)	321	462	79	132	871	2,035
Semi-manufactures (a)	7,732	8,099	8,975	9,104	7,473	6,633
Zinc-white, zinc-grey ..	12,911	13,192	17,709	15,767	10,686	9,820
Lithopone	41,948	41,545	39,572	38,523	41,778	35,833
Greece—						
Ore and concentrates ..	19,150	27,582	32,441	30,631	29,692	30,647
Italy—						
Ore	73,007	87,609	82,724	58,848	75,147	65,663
Unwrought	13,816	15,436	17,253	10,429	6,265	2,088
Semi-manufactures (a)	26	451	359	501	359	488
Oxide	544	363	449	207	96	370
Lithopone, etc. . .	3,692	5,225	5,488	4,137	4,028	3,524
Netherlands—						
Ore	2,384	1,863	1,632	1,766	4,719	3,819
Unwrought	14,967	14,517	25,487	23,461	20,355	20,893
do. alloys	24	113	456	257	109	47
Scrap (a)	5,007	4,977	2,869	2,446	4,557	7,681
Semi-manufactures (a)	1,309	1,334	2,011	1,380	1,281	1,173
Oxide	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	9,297	8,775
Lithopone, etc. . .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	11,462	10,207
Norway—						
Ore	6,056	10,686	10,296	14,166	9,534	14,961
Unwrought	39,555	36,720	36,146	31,900	31,232	31,641
do. alloys	<i>n.a.</i>	<i>n.a.</i>	729	817	810	1,347
Ashes and scrap	1,323	1,444	(b) 296	(b) 653	(b) 421	(b) 707
Semi-manufactures (a)	2	2	28	42	334	663
Zinc-white	1,407	2,714	377	408	773	614
Poland—						
Unwrought and sheets	90,757	89,003	88,412	96,160	89,510	82,870
Unwrought alloys	<i>n.a.</i>	6,271	6,938	6,784	6,797	<i>n.a.</i>
Zinc-white	8,132	6,954	8,855	9,908	5,310	<i>n.a.</i>
Lithopone	<i>n.a.</i>	472	279	629	734	<i>n.a.</i>
Portugal—						
Ore	440	—	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Zinc-white	16	15	19	21	9	45
Spain—						
Ore	63,431	53,749	129,526	73,912	29,653	29,123
Unwrought (a)	—	—	407	19,972	21,707	23,469
Sweden—						
Ore	135,827	136,131	141,555	137,120	143,140	147,158
Unwrought (a)	154	362	449	327	146	108
Scrap	439	620	1,006	869	1,196	1,738
Zinc-white	559	645	747	870	998	750

(a) Including alloys.

(b) Scrap only.

EXPORTS OF ZINC (cont.)

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Switzerland—						
Unwrought and scrap ..	5,738	5,124	4,945	919	751	1,085
Semi-manufactures (d) ..	65	91	57	35	51	74
Zinc-white, etc. ..	227	279	317	(e) —	(e) 12	(e) 1
U.S.S.R.—						
Concentrates	—	36,800	65,700	48,200	38,600	19,100
Unwrought	71,000	65,400	72,100	89,000	114,400	106,300
Yugoslavia—						
Concentrates	23,984	26,783	27,987	18,336	18,552	29,563
Unwrought	14,569	11,809	9,301	8,762	7,830	7,097
Semi-manufactures ..	3,422	4,151	4,210	4,748	5,181	6,791
Oxide	1,048	496	1,639	2,062	1,301	558
Lithopone	1,007	347	883	651	96	400
Algeria—						
Ore	50,682	52,559	73,571	64,781	74,900	67,509
Unwrought (a)	8	25	40	25	n.a.	n.a.
Scrap	357	423	428	513	n.a.	n.a.
Semi-manufactures (a) ..	112	76	57	31	n.a.	n.a.
Oxide	2	—	—	119	n.a.	n.a.
Angola—						
Ore	295	—	—	—	—	—
Congo Republic—						
Ores and concentrates ..	78,073	82,363	73,748	(c) 96,000	(c) 90,000	(c) 60,000
Unwrought	48,866	50,403	52,836	(c) 50,000	(c) 50,000	(c) 60,000
Egypt—						
Ore	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Morocco—						
Ore	102,266	54,381	97,941	69,511	74,101	62,327
South Africa—						
Unwrought	2	1	11	17	7	12
Fume, dust, shavings, etc.	287	109	81	90	111	139
South West Africa—						
Ores and concentrates (Zn content)	55,844	42,647	19,273	24,046	23,052	70,088
Tunisia—						
Ore	7,963	6,250	6,020	4,190	9,544	6,653
Cuba—						
Crude	795	—	—	n.a.	n.a.	n.a.
Greenland—						
Ore	12,692	8,507	9,367	17,567	10,247	10,213
Guatemala—						
Ore	18,942	11,328	—	15,387	13,437	4,288
Honduras—						
Ore and concentrates ..	1,357	—	—	6,565	12,131	9,631
Mexico—						
Ores and concentrates	357,848	297,661	345,842	375,624	395,153	393,102
Unwrought	41,602	35,916	40,397	29,779	27,324	28,946
Oxide	1,203	1,337	2,155	2,810	2,456	1,281
United States—						
Ore and concentrates (b)	6	—	1	12	1,491	122
Unwrought	9,630	1,851	10,383	67,093	44,691	32,233
Scrap (b)	4,883	4,771	10,118	10,865	5,268	7,090
Semi-manufactures (a)	4,585	4,915	4,572	5,955	6,224	5,211
Oxide	2,807	2,270	2,247	1,908	1,949	1,840
Lithopone	885	547	480	170	543	312
Argentina—						
Ore	—	—	—	26,235	50,141	19,372
Bolivia—						
Ores (Zn content) ..	19,355	13,997	3,339	3,963	5,248	3,588

(a) Years ended March 20 following that stated.

(b) Zn content.

(c) Estimated.

(d) Including alloys.

(e) Zinc white only.

EXPORTS OF ZINC (cont.)

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Chile—						
Concentrates	5,481	2,165	—	—	—	<i>n.a.</i>
Peru—						
Ores, etc. (<i>Zn content</i>)..	117,333	105,920	128,862	131,171	173,423	142,088
Unwrought (<i>Zn content</i>)	26,668	28,494	25,237	24,106	29,859	36,710
Burma—						
Concentrates	36,751	36,744	29,706	20,022	12,403	15,462
Iran (<i>a</i>)—						
Ore	11,810	15,473	6,729	15,567	21,219	<i>n.a.</i>
Japan—						
Unwrought	11,514	7,068	8,589	5,821	1,329	293
Semi-manufactures (<i>a</i>)	49	56	30	50	66	176
Oxide	172	77	44	24	82	49
Lithopone	12	22	—	1	20	<i>n.a.</i>
Korea (South)—						
Ore	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,083	551	714
Philippine Republic—						
Concentrates	1,476	—	—	11	3,051	7,431
Turkey—						
Ore	982	1,575	3,486	1,968	11,263	7,261

(a) Years ended March 20 following that stated.

IMPORTS OF ZINC*

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore and concentrates ..	207,355	121,194	152,325	189,112	206,184	188,130
Unwrought ..	146,713	133,523	173,810	185,878	163,070	142,109
Semi-manufactures(a)(d)	509	795	754	934	1,777	1,027
Oxide	4	5	n.a.	n.a.	n.a.	n.a.
Lithopone, etc.	2,828	4,358	2,685	2,615	2,524	1,867
Malta—						
Semi-manufactures ..	50	21	22	24	20	51
Ghana—						
Unwrought (a) ..	26	65	65	73	18	47
Semi-manufactures (a)					184	19
Kenya—						
Unwrought (a) ..	37	88	68	77	100	204
Semi-manufactures (a)	22	44	40	46	9	—
Nigeria—						
Unwrought and semi-manufactures (a)	42	90	50	67	35	37
Rhodesia and Nyasaland—						
Semi-manufactures (a)	147	148	120	124	49	86
Tanganyika—						
Semi-manufactures (a)	13	16	31	26	36	26
Uganda—						
Semi-manufactures (a) (c)	1	4	3	5	4	16
Canada—						
Unwrought (a) ..	38	555	750	44	688	634
Semi-manufactures (a)	1,935	1,467	1,648	1,550	1,548	1,477
Zinc-white	641	621	646	678	1,999	2,443
Lithopone	1,219	1,109	875	798	562	—
Barbados—						
Semi-manufactures (a)	6	7	5	n.a.	n.a.	11
Jamaica—						
Semi-manufactures (a)	18	18	12	17	43	39
Trinidad and Tobago—						
Semi-manufactures (a)	10	43	29	25	59	48
Ceylon—						
Unwrought (a) ..	50	r 66	r 91	r 101	91	85
Semi-manufactures (a)	25	61	29	57	18	74
Cyprus—						
Semi-manufactures (a)	53	43	61	34	40	49
Hong Kong—						
Unwrought (a) ..	1,158	2,445	2,390	4,006	5,366	4,501
Scrap (a)	22	32	357	456	431	37
Semi-manufactures (a)	1,213	916	1,050	897	547	544
Oxide	545	508	527	538	573	794
Lithopone	2,439	1,695	2,102	1,716	2,327	1,319
India—						
Unwrought	47,910	57,122	46,921	(b) 66,725	(b) 64,345	(b) 83,847
do. alloys	3,019	1,159	869	(b) 2,888	(b) 1,522	(b) 2,306
Semi-manufactures (a)	2,376	1,251	248	(b) 1,403	(b) 964	(b) 1,292
Zinc-white	9	8	7	(b) 17	(b) 5	(b) 2
Lithopone	279	133	163	(b) 379	(b) 352	(b) 474
Malaya—						
Unwrought (a) ..	4	3	4	16	27	308
Semi-manufactures (a)	1,059	960	878	1,305	1,253	800
Pakistan—						
Unwrought (a) ..	519	674	1,525	1,899	3,574	220
Zinc-white	134	263	248	464	413	499
Lithopone	809	1,091	507	1,639	1,364	1,832

*See footnote on p.386 concerning the descriptions "unwrought" zinc and "semi-manufactures" used in these tables.

(a) Including alloys.

(b) Years ended March 31 following that stated.

(c) Excess of re-exports.

(d) Including unwrought alloys.

IMPORTS OF ZINC (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
<i>(cont.)</i>						
Sarawak—						
Semi-manufactures (a)	159	139	204	402	432	935
Australia (b)—						
Unwrought and semi-manufactures (a)	132	156	129	911	2,531	1,687
Oxides	7	7	5	37	—	—
Lithopone	2,415	1,353	1,623	1,582	1,531	1,454
New Zealand—						
Unwrought (a)	1,545	2,211	2,088	2,549	2,664	2,580
Semi-manufactures (a)	509	465	326	345	755	459
Oxide	353	314	31	108	79	101
Lithopone	173	266	184	174	136	133
Irish Republic—						
Unwrought (a) ..	1,452	1,582	1,524	2,163	2,464	2,729
Semi-manufactures (a)	334	364	296	99	80	149
OTHER COUNTRIES						
Austria—						
Ore	4,037	10,369	11,555	10,127	9,271	12,921
Unwrought (a) ..	4,447	3,918	3,070	6,485	7,905	5,913
Semi-manufactures (a)	127	165	331	476	499	443
Zinc-white and zinc-grey	389	374	786	629	658	721
Lithopone	540	359	20	19	3	96
Belgium-Luxemburg						
E.U.—						
Ore	514,382	453,528	526,753	540,052	496,045	440,448
Unwrought	777	3,336	491	2,991	17,436	35,155
Scrap	9	36	861	368	133	1,186
Semi-manufactures (a)	341	371	279	97	143	201
Oxide	1,235	1,221	1,234	1,421	1,433	1,799
Lithopone, etc. . .	1,540	1,713	1,980	1,637	1,608	1,349
Denmark—						
Unwrought	5,557	9,665	11,296	11,544	9,733	10,770
do. alloys	124	143	380	430	216	238
Scrap	143	270	513	142	32	63
Semi-manufactures (a)	4,808	5,946	5,513	5,232	6,257	6,740
Zinc-white	1,596	1,627	1,940	1,642	1,623	1,496
Lithopone	1,727	1,849	1,883	1,854	1,963	2,020
Finland—						
Unwrought (a) ..	6,245	2,995	5,361	4,729	6,286	4,642
Scrap	54	72	54	5	—	—
Semi-manufactures (a)	567	358	466	540	587	501
Zinc-white	520	646	802	725	490	424
Lithopone	1,735	1,309	1,631	1,919	1,833	1,786
France—						
Ore	308,039	346,203	236,309	285,755	320,391	293,211
Unwrought	10,271	14,596	13,597	21,699	31,108	31,881
Scrap	6,578	8,946	4,035	6,050	8,474	10,542
Semi-manufactures (a)	2,348	1,517	1,670	5,603	4,755	4,665
Oxide	399	197	541	714	1,534	883
Lithopone, etc. . .	16,295	9,700	16,165	19,217	21,051	20,134
Germany (Federal)—						
Ores	109,123	177,297	142,087	158,346	136,247	131,494
Unwrought (a) ..	66,463	75,456	103,970	136,444	139,343	126,580
Scrap (a)	358	402	695	555	409	851
Semi-manufactures (a)	6,823	10,249	9,206	10,012	9,454	12,154
Zinc-white and zinc-grey	2,972	2,165	2,151	2,365	3,254	3,438
Lithopone	2,743	2,297	2,659	2,965	3,714	3,160

(a) Including alloys.

(b) Years ended June 30 and that stated.

IMPORTS OF ZINC (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES (cont.)						
Greece—						
Unwrought	2,101	2,183	2,773	3,754	4,923	5,260
Semi-manufactures (a)	668	749	499	373	286	253
Zinc-white	340	324	241	232	241	246
Lithopone	2,527	2,864	3,009	3,207	3,187	3,230
Hungary—						
Crude	5,932	7,107	8,403	10,663	9,225	9,897
Iceland—						
Unwrought (a)	20	37	36	18	20	22
Semi-manufactures (a)	29	35	23	43	52	63
Zinc-white	34	53	32	77	37	57
Italy—						
Ore	20	2,528	—	982	2,513	1,075
Unwrought	8,615	6,407	6,749	11,299	12,748	26,412
do. alloys	913	941	309	856	2,040	2,504
Scrap	2,461	1,061	4,744	4,395	4,550	5,155
Semi-manufactures (a)	1,061	1,222	252	177	436	134
Oxide	558	400	489	705	741	684
Lithopone, etc. . .	739	980	1,078	1,002	1,221	294
Netherlands—						
Ore	69,629	71,262	72,952	70,653	90,282	72,593
Unwrought	10,041	12,285	9,973	11,584	13,437	14,308
do. alloys	1,451	908	1,398	2,011	2,068	2,194
Scrap	226	488	796	756	451	317
Semi-manufactures (a)	5,415	5,844	5,449	5,567	5,995	4,879
Oxide	1,464	1,272	1,468	1,557	1,037	1,568
Lithopone, etc. . .	2,010	1,821	1,731	1,976	1,980	1,926
Norway—						
Ore	92,703	88,260	61,278	83,668	65,874	68,368
Unwrought	750	172	260	1,151	1,040	2,259
Ashes and scrap	1,330	1,056	(b) 750	(b) 902	(b) 923	(b) 474
Semi-manufactures (a)	1,067	1,444	1,464	1,373	2,374	2,857
Zinc-white	736	331	496	470	453	588
Lithopone, etc. . .	395	422	358	334	329	354
Poland—						
Concentrates	149,385	105,345	141,041	109,498	145,104	122,000
Portugal—						
Unwrought and scrap ..	2,743	2,854	2,682	3,128	4,866	4,552
Semi-manufactures	176	127	148	251	192	241
Oxide	786	720	617	430	460	486
Lithopone	1,619	1,985	1,926	2,221	2,276	2,234
Spain—						
Unwrought and scrap ..	4,092	9,466	7,719	1	—	—
Semi-manufactures (a)	13	47	32	17	19	36
Sweden—						
Unwrought	23,664	22,846	29,107	32,206	23,844	33,174
do. alloys	n.a.	n.a.	1,049	1,765	2,038	2,729
Scrap	1	—	61	103	50	231
Semi-manufactures (a)	1,513	1,276	1,114	1,283	1,206	1,122
Zinc-white	5,071	4,484	4,703	4,502	4,389	4,053
Lithopone, etc. . .	5,945	6,267	6,173	5,863	5,603	4,466
Switzerland—						
Unwrought	17,943	15,009	14,180	23,552	26,594	19,997
Semi-manufactures (a)	2,650	2,440	2,504	3,860	3,505	3,018
Zinc-white, lithopone, etc.	9,067	8,535	8,496	(c) 1,998	(c) 1,713	(c) 1,811
U.S.S.R.—						
Unwrought	32,000	30,900	40,900	59,900	69,300	50,800
Yugoslavia—						
Unwrought	318	30	227	770	—	—

(a) Including alloys.

(b) Scrap only.

(c) Zinc-white only.

IMPORTS OF ZINC (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Algeria—						
Unwrought (a) ..	4	18	3	263	<i>n.a.</i>	<i>n.a.</i>
Semi-manufactures (a)	872	978	921	789	<i>n.a.</i>	<i>n.a.</i>
Oxide	455	547	733	555	<i>n.a.</i>	<i>n.a.</i>
Lithopone, etc. . . .	783	1,253	1,401	1,683	<i>n.a.</i>	<i>n.a.</i>
Angola—						
Semi-manufactures (a)	154	95	107	94	60	93
Oxide	39	37	30	29	35	49
Congo Republic—						
Unwrought and scrap ..	4	11	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Oxide	88	67	92	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Lithopone	478	369	481	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Egypt—						
Unwrought	495	558	1,149	1,688	951	2,088
Semi-manufactures ..	401	496	604	637	511	330
Zinc-white	863	713	477	893	950	73
Lithopone	2,341	4,211	1,614	5,247	2,691	<i>n.a.</i>
Malagasy Republic—						
Semi-manufactures (a)	74	172	102	99	99	126
Oxide	8	9	4	4	5	4
Morocco—						
Unwrought	338	597	387	502	463	613
Semi-manufactures (a)	118	186	173	149	152	187
Oxide	303	344	325	449	405	562
Lithopone	829	901	926	986	1,112	977
Mozambique—						
Semi-manufactures ..	9	12	30	21	22	<i>n.a.</i>
Oxide	23	35	34	52	72	<i>n.a.</i>
South Africa—						
Unwrought	17,785	22,895	14,622	28,201	22,596	26,667
Semi-manufactures ..	212	127	124	150	166	255
Lithopone	2,129	1,928	1,646	1,609	1,214	1,233
Oxide	233	292	273	264	234	154
Tunisia—						
Unwrought and scrap (a)	12	104	63	49	84	94
Semi-manufactures (a)	34	80	69	107	107	67
Oxide	87	61	75	134	90	157
Lithopone	318	419	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Cuba—						
Unwrought	312	204	226	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Semi-manufactures ..	111	128	1,470	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Mexico—						
Semi-manufactures ..	201	58	78	76	41	30
Oxide	22	32	38	27	35	34
United States—						
Ore (<i>Zn content</i>) ..	606,621	480,088	378,691	r 341,909	319,333	405,448
Unwrought	240,021	165,797	146,841	107,969	111,774	121,425
Dross and scrap ..	527	867	1,016	1,075	1,259	2,471
Semi-manufactures ..	754	890	888	824	1,133	1,986
Oxide	4,683	10,472	14,741	11,335	9,127	11,509
Lithopone	51	61	65	55	66	87
Argentina—						
Unwrought	1,369	7,867	6,955	412	313	84
Sheets and plates ..	8	—	—	70	219	102
Zinc-white	1	—	1	1	1	4
Brazil—						
Unwrought (a) ..	15,301	22,837	21,825	30,275	32,318	41,567
Semi-manufactures (a)	117	93	27	74	38	545
Zinc-white	2,542	2,647	1,200	455	621	82
Lithopone	7,739	6,138	7,516	7,477	9,540	9,621

(a) Including alloys

IMPORTS OF ZINC (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES						
<i>(cont.)</i>						
Chile—						
Unwrought	2,258	2,459	1,477	2,776	4,158	<i>n.a.</i>
Bars and sheets (a) ..	173	136	163	205	183	<i>n.a.</i>
Zinc-white	—	3	—	15	<i>n.a.</i>	<i>n.a.</i>
Lithopone	—	10	4	—	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Unwrought (a)	126	424	1,433	2,497	721	1,223
Semi-manufactures (a) ..	475	387	309	397	533	403
Zinc-white	1,053	942	616	787	1,013	1,209
Lithopone	1,015	292	316	547	506	577
Peru—						
Semi-manufactures (a) ..	151	137	173	146	237	248
Zinc-white	55	17	17	14	23	25
Lithopone	573	419	394	350	406	417
Uruguay—						
Unwrought and sheets ..	1,232	648	1,421	1,351	<i>n.a.</i>	<i>n.a.</i>
Lithopone	673	269	1,000	771	<i>n.a.</i>	<i>n.a.</i>
Zinc-white	301	343	365	372	<i>n.a.</i>	<i>n.a.</i>
Venezuela—						
Unwrought	6	17	56	115	191	162
Oxide	517	580	710	606	617	766
Lithopone	754	735	543	348	535	523
Burma—						
Unwrought	378	140	158	—	223	—
Semi-manufactures (a) ..	47	161	150	365	201	505
Formosa—						
Unwrought (a)	1,655	1,057	605	1,318	1,915	3,000
Semi-manufactures (a) ..	281	260	271	257	279	263
Lithopone	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,214	1,210	1,325
Indonesia—						
Unwrought and scrap ..	134	29	42	127	242	<i>n.a.</i>
Semi-manufactures (a) ..	659	652	961	974	1,514	<i>n.a.</i>
Zinc-white	2,236	1,536	1,332	2,141	3,271	<i>n.a.</i>
Iran (b)—						
Unwrought	79	12	30	34	<i>n.a.</i>	<i>n.a.</i>
Semi-manufactures (a) ..	58	52	84	110	<i>n.a.</i>	<i>n.a.</i>
Iraq—						
Semi-manufactures	75	232	63	42	<i>n.a.</i>	<i>n.a.</i>
Israel—						
Unwrought (a)	1,697	2,150	2,385	2,855	2,861	1,896
Semi-manufactures	244	510	512	564	268	631
Oxide	168	274	349	1,100	1,293	522
Lithopone	829	1,173	753	1,256	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Ore	58,430	19,631	58,695	107,790	185,432	142,414
Unwrought	7,324	7,982	9,295	25,736	47,118	8,007
Scrap	23	53	170	48	59	64
Semi-manufactures (a) ..	91	18	1	8	87	33
Korea (South)—						
Lithopone	<i>n.a.</i>	1,054	1,088	1,521	1,680	1,428
Lebanon—						
Unwrought	252	190	467	512	710	<i>n.a.</i>
Semi-manufactures	77	48	135	98	148	<i>n.a.</i>
Oxide and lithopone	107	101	172	65	77	<i>n.a.</i>
Philippine Republic—						
Unwrought (a)	4,201	4,257	11,864	11,355	5,520	7,624
Semi-manufactures (a) ..					883	1,225
Oxide	898	776	1,045	891	1,676	1,009
Lithopone	467	232	332	389	677	159
Syria—						
Oxide and lithopone	613	720	494	784	953	657

a) Including alloys.

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

IMPORTS OF ZINC (cont.)

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
OTHER COUNTRIES (cont.)						
Thailand—						
Unwrought (a) ..	17	19	431	2,160	5,589	7,089
Semi-manufactures (a)	1,251	1,637	1,040	1,821	1,587	1,715
Oxide	136	215	142	215	236	299
Lithopone	148	169	323	506	301	—
Turkey—						
Unwrought	445	487	1,570	3,248	3,851	3,339
Semi-manufactures (a)	764	846	2,471	2,864	1,526	2,500
Oxide	824	133	1,880	1,204	1,449	1,803
Lithopone	205	635	1,764	1,466	131	140

(a) Including alloys.

ZIRCONIUM MINERALS

PRODUCTION OF ZIRCONIUM MINERALS

Long tons

Producing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Gambia (a)	—	10	—	—	—	—
Nigeria	—	90	1,116	1,757	743	—
India	10	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Malaya (a)	41	25	81	57	56	60
Australia— Zircon concentrates ..	88,561	59,269	113,356	102,362	136,462	133,415
OTHER COUNTRIES						
Egypt	40	(c) 40	(c) 60	364	<i>n.a.</i>	<i>n.a.</i>
Malagasy Republic	—	23	44	130	315	348
Senegal	2,900	6,800	8,533	10,186	5,303	2,299
South Africa	—	1,008	5,289	6,577	6,792	6,769
United States (d)	(e) 50,716	(f) 27,181	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Brazil (b)	1,606	9,349	9,684	5,677	6,612	2,359

Zirconium minerals are also known to have been produced in Ceylon, the U.S.S.R. and Cambodia.

(a) Exports.

(b) Chiefly baddeleyite.

(c) United States Bureau of Mines' estimate.

(d) Production of zirconium sponge metal in the United States was as follows (long tons): 1957—*n.a.*; 1958—1,129; 1959—1,254; 1960—1,271; 1961—1,515; 1962—1,136

(e) Florida only.

(f) Excluding Idaho.

EXPORTS OF ZIRCONIUM MINERALS, ETC.

Long tons

Exporting Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
Gambia— Zircon	—	10	—	—	—	—
Malaya— Zircon	41	25	81	57	56	60
Australia— Zircon concentrates ..	85,254	60,895	108,820	104,630	140,333	131,843
OTHER COUNTRIES						
Germany (Federal)— Ore	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,085	591	575
Congo Republic— Ore	—	37	—	—	<i>n.a.</i>	<i>n.a.</i>
Senegal— Zircon	3,892	4,970	8,149	10,602	5,280	2,054
South Africa— Zircon concentrates ..	—	391	4,821	5,400	5,240	5,950
United States— Ores and concentrates	2,821	1,780	1,349	1,234	1,140	1,487
Zirconium metal, etc. ..	30	45	40	475	80	97
Brazil (a)	98	—	49	—	53	—

(a) Chiefly baddeleyite.

IMPORTS OF ZIRCONIUM MINERALS, ETC.

Long tons

Importing Country and Description	1957	1958	1959	1960	1961	1962
COMMONWEALTH COUNTRIES						
United Kingdom— Zirconium ores ..	19,848	17,778	28,063	33,712	30,756	32,924
Canada— Zirconium oxide ..	(£7,704)	(£8,263)	(£14,443)	(£8,735)	(£11,462)	(£19,503)
Zirconium silicate ..	(£135,104)	(£54,219)	(£56,104)	(£59,402)	(£74,780)	(£73,485)
OTHER COUNTRIES						
France— Zirconium ore ..	9,806	7,853	9,285	15,389	16,387	18,641
Germany (Federal)— Zirconium ore ..	<i>n.a.</i>	6,964	16,869	18,653	23,018	23,568
Italy— Zirconium ore ..	2,862	9,928	4,176	8,007	6,700	7,420
United States— Zirconium ore ..	37,225	17,165	48,998	30,607	30,183	27,565
Zirconium metal ..	42	105	3	1	1	1

OTHER MINERALS AND METALS

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

Country and Description	1957	1958	1959	1960	1961	1962
Germanium (in terms of metal)						
PRODUCTION*—						
Italy Lb.	—	—	3,000	12,000	<i>n.a.</i>	<i>n.a.</i>
Congo Republic Lb.	19,990	35,850	30,080	55,340	29,870	18,000
South West Africa Lb.	12,000	14,000	16,000	42,000	34,580	89,203
United States .. Lb.	<i>n.a.</i>	<i>n.a.</i>	(a) 40,000	(a) 54,000	(a) 40,000	(a) 37,000
EXPORTS—						
South-West Africa Lb.	12,000	14,000	16,000	—	12,000	32,000
Indium						
PRODUCTION†—						
Canada Troy ounces	384,360	69,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Peru Troy ounces	—	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Japan Troy ounces	<i>n.a.</i>	21,900	62,890	<i>n.a.</i>	<i>n.a.</i>	150,700
Nepheline Syenite						
PRODUCTION—						
Canada Ton	178,586	179,737	204,216	214,854	214,571	227,159
Norway Ton	—	—	—	—	8,008	19,625
EXPORTS—						
Canada Ton	146,734	142,929	159,036	172,587	173,748	172,909
IMPORTS—						
United Kingdom £	36,016	58,788	70,115	89,619	145,540	<i>n.a.</i>
United States .. Ton	149,097	147,298	165,421	175,059	167,379	168,635
Perlite						
PRODUCTION—						
United Kingdom Ton	440	113	413	1,135	823	1,730
Australia Ton	—	300	708	796	394	—
New Zealand .. Ton	275	360	378	348	387	387
Greece Ton	—	8,201	1,999	27,400	16,911	20,000
United States .. Ton	377,095	332,000	396,000	344,000	334,000	364,000
EXPORTS—						
Greece Ton	—	3,900	3,164	12,204	9,099	<i>n.a.</i>
IMPORTS—						
United Kingdom £	97,506	58,941	101,062	154,349	180,198	<i>n.a.</i>
Sodium Carbonate (Natural)						
PRODUCTION—						
Kenya Ton	118,440	111,038	151,405	124,510	142,430	122,120
United States (b) Ton	582,783	562,000	656,000	722,000	720,000	873,000
EXPORTS—						
Kenya Ton	116,456	104,016	148,177	115,208	142,673	111,201
Sodium Sulphate (Natural)						
PRODUCTION—						
Canada Ton	140,893	154,658	160,299	191,257	224,104	220,243
United States (b) Ton	296,000	310,000	360,000	402,000	416,000	409,000
Argentina Ton	3,424	5,388	<i>n.a.</i>	<i>n.a.</i>	11,022	<i>n.a.</i>
EXPORTS—						
Canada Ton	33,056	35,503	42,787	56,992	77,795	66,115

*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) Estimated.

(b) Sold or used by producers.

OTHER MINERALS AND METALS (cont.)

Country and Description	1957	1958	1959	1960	1961	1962
Tellurium						
PRODUCTION—						
Canada Lb.	31,524	38,250	13,023	44,682	77,609	58,725
United States (a) Lb.	252,000	123,000	177,000	271,000	205,000	264,000
Peru Lb.	—	14,870	62,600	59,343	76,300	50,473
Japan Lb.	717	100	2,760	13,671	16,487	23,168
EXPORTS—						
Peru Lb.	—	9,105	58,934	51,039	74,673	9,202
IMPORTS—						
Germany (Federal) Lb.	11,244	16,800	18,100	16,100	22,900	22,000

(a) Including tellurium content of compounds.

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 1957-1962 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.

Aden	Barbados	Canada—(cont.)
Salt	Natural gas	Potash salts
Australia	Petroleum	Pyrites
Antimony	Basutoland	Salt
Asbestos	Diamonds	Selenium
Barytes	Bechuanaland	Silver
Bauxite	Asbestos	Sodium sulphate
Bentonite	Gold	Sulphur
Beryl	Kyanite	Talc
Bismuth	Manganese	Tantalite, Columbite
Cadmium	Silver	Tellurium
China Clay	British Guiana	Thorium
Chrome	Bauxite	Tin
Coal	Diamonds	Titanium
Cobalt	Gold	Tungsten
Copper	Manganese	Uranium
Diamonds	Brunei	Zinc
Diatomaceous earth	Natural gas	Ceylon
Feldspar, China stone	Natural gasoline	Feldspar
Fluorspar	Petroleum	Graphite
Fuller's earth	Canada	Gypsum
Garnet	Arsenic	Ilmenite
Gold	Asbestos	Monazite
Gypsum	Barytes	Salt
Iron	Bentonite	Zircon
Lead	Bismuth	Christmas Island
Lithium	Cadmium	Phosphate
Magnesite, Dolomite	Coal	Cyprus
Manganese	Cobalt	Asbestos
Mica	Copper	Bentonite
Molybdenum	Diatomaceous earth	Chrome
Monazite	Feldspar	Cobalt
Perlite	Fluorspar	Copper
Phosphate	Garnet	Gypsum
Platinum, Osmiridium	Gold	Pyrites
Pyrites	Graphite	Salt
Salt	Gypsum, Anhydrite	Fiji
Selenium	Indium	Copper
Sillimanite, Andalusite	Iron	Gold
Silver	Lead	Iron
Sulphur	Lithium	Manganese
Talc, Pyrophyllite	Magnesite, Dolomite	Silver
Tantalite, Columbite	Mica	Gambia
Tin	Molybdenum	Titanium
Titanium	Natural gas	Zircon
Tungsten	Natural gasoline	Ghana
Uranium	Nepheline syenite	Bauxite
Zinc	Nickel	Diamonds
Zircon	Niobium	Gold
Bahamas	Petroleum	Manganese
Salt	Platinum	Salt
Bahrein		Silver
(Protected State)		
Petroleum		

Minerals produced in countries of the Commonwealth and Sterling Area (cont.)

Hong Kong

China clay
Feldspar
Graphite
Iron
Lead
Tungsten

India

Asbestos
Barytes
Bauxite
Bentonite
Beryl
China Clay
Chrome
Coal
Copper
Columbite
Corundum
Diamonds
Feldspar
Fuller's earth
Garnet
Gold
Gypsum
Iron
Lead
Magnesite, Dolomite
Manganese
Mica
Monazite
Nitrate of potash
Petroleum
Phosphate
Pyrites
Salt
Sillimanite, Kyanite
Silver
Talc
Titanium
Tungsten
Vermiculite
Zinc
Zircon

Jamaica

Bauxite
Gypsum
Phosphate

Kenya

Asbestos
Beryl
China clay
Columbite
Copper
Diatomaceous earth
Feldspar
Gold
Graphite
Gypsum
Kyanite
Magnesite
Mica
Pumice

Kenya—(cont.)

Salt
Silver
Sodium carbonate
Vermiculite

Kuwait

(Protected State)

Petroleum

Malaya

Bauxite
China clay
Coal
Columbite
Gold
Iron
Manganese
Monazite
Tin
Titanium
Tungsten
Zircon

Malta

Salt

Mauritius

Salt

Nauru Island

Phosphate

New Guinea

Gold
Platinum
Silver

New Hebrides

Manganese

New Zealand

Asbestos
Bentonite
Coal
Copper
Diatomaceous earth
Gold
Iron
Magnesite, Dolomite
Manganese
Natural gas
Natural gasoline
Perlite
Petroleum
Pumice
Salt
Silver
Tungsten

Nigeria

China clay
Coal
Feldspar
Gold
Lead
Monazite, Thorite
Petroleum
Salt

Nigeria—(cont.)

Silver
Tantalite, Columbite
Tin
Zircon

Northern Rhodesia

Beryl
Cadmium
Cobalt
Copper
Gold
Lead
Manganese
Mica
Salt
Selenium
Silver
Tantalite, Columbite
Tin
Uranium
Vanadium
Zinc

Ocean Island

Phosphate

Pakistan

Barytes
Bauxite
Chrome
Coal
Gypsum
Iron
Magnesite
Manganese
Natural gas
Petroleum
Salt
Strontium
Talc

Papua

Gold
Manganese

Qatar

(Protected State)

Petroleum

St. Kitts

Salt

Sarawak

Bauxite
Gold
Petroleum
Phosphate

Seychelles

Phosphate

Sierra Leone

Chrome
Diamonds
Gold
Iron
Platinum

Minerals produced in countries of the Commonwealth and Sterling Area (cont.)

Southern Rhodesia	Trinidad	Burma—(cont.)
Antimony	Gypsum	Coal
Arsenic	Natural asphalt	Copper
Asbestos	Natural gas	Gold
Barytes	Natural gasoline	Gypsum
Bauxite	Petroleum	Iron
Beryl	Sulphur	Lead
China clay	Trucial States	Nickel
Chrome	(Protected States)	Petroleum
Coal	Petroleum	Salt
Copper	Turks and Caicos	Silver
Corundum	Islands	Talc
Diatomaceous earth	Salt	Tin
Feldspar	Uganda	Tungsten
Fluorspar	Beryl	Zinc
Gold	Bismuth	Iceland
Iron	Cobalt	Pumice
Lead	Copper	Diatomaceous earth
Lithium	Gold	Irish Republic
Magnesite, Dolomite	Lead	Barytes
Manganese	Lithium	Coal
Mica	Mica	Copper
Nickel	Phosphate	Gypsum
Phosphate	Salt	Lead
Pyrites	Silver	Pyrites
Silver	Tantalite, Columbite	Zinc
Talc	Tin	Jordan
Tantalite	Tungsten	Phosphate
Tin	United Kingdom	Salt
Tripoli	Barytes, Witherite	Libya
Tungsten	Bromine	Petroleum
Vermiculite	China clay	Salt
Swaziland	China stone	South Africa
Asbestos	Coal	Antimony
Barytes	Copper	Asbestos
Beryl	Diatomaceous earth	Barytes
China clay	Fluorspar	Bentonite
Coal	Fuller's earth	Beryl
Gold	Germanium	Bismuth
Pyrophyllite	Gypsum, Anhydrite	China clay
Silver	Iron	Chrome
Tin	Lead	Coal
Yttrotantalite	Magnesite, Dolomite	Copper
Tanganyika	Natural gas	Corundum
China clay	Oil-shale	Diamonds
Coal	Perlite	Diatomaceous earth
Copper	Petroleum	Feldspar
Corundum	Pyrites	Fluorspar
Diamonds	Salt	Fuller's earth
Garnet	Strontium	Garnet
Gold	Sulphur	Gold
Graphite	Talc	Graphite
Gypsum	Tin	Gypsum
Lead	Tungsten	Iron
Magnesite	Zinc	Lead
Mica	Virgin Islands	Lithium
Niobium	Salt	Magnesite
Phosphate	Burma	Manganese
Salt	Antimony	Mica
Silver	Barytes	Molybdenum
Tin	Bismuth	Monazite
Tungsten		Nickel
Vermiculite		

Minerals produced in countries of the Commonwealth and Sterling Area (cont.)

South Africa—(cont.)

Oil-shale
 Phosphate
 Platinum, Osmiridium
 Pyrites
 Salt
 Silver
 Sillimanite Andalusite
 Sulphur
 Talc
 Tantalite
 Tin
 Titanium
 Tungsten
 Uranium
 Vanadium

South Africa—(cont.)

Vermiculite
 Zinc
 Zircon

South West Africa

Beryl
 Bismuth
 Cadmium
 Copper
 Diamonds
 Feldspar
 Fluorspar
 Germanium
 Gold
 Iron

South West Africa

—(cont.)

Lead
 Lithium
 Manganese
 Mica
 Phosphate
 Salt
 Sillimanite, Kyanite
 Silver
 Tantalite, Columbite
 Tin
 Tungsten
 Vanadium
 Zinc

LIST OF STATISTICAL PUBLICATIONS

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