

R.S.
OVERSEAS GEOLOGICAL SURVEYS
MINERAL RESOURCES DIVISION

STATISTICAL
SUMMARY OF THE
MINERAL INDUSTRY

WORLD PRODUCTION,
EXPORTS AND IMPORTS

1954-1959

MINERAL RESOURCES DIVISION,
OVERSEAS GEOLOGICAL SURVEYS,
64-78 GRAY'S INN ROAD,
LONDON, W.C.1.



LONDON
HER MAJESTY'S STATIONERY OFFICE
PRICE £1 7s. 6d. NET

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1961

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

The table relating to production of Superphosphates now shows both the gross weight produced and production in terms of phosphoric acid content.

Statistics relating to Germanium 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 the Union of South Africa. The trade figures for South-West Africa are also generally included with those for the Union of South Africa from 1955 onwards.

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.

From 1958 onwards 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.

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.83) and Petroleum and Allied Products (pp. 230, 242).

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	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Kenya—						
Pumice (b)	<i>n.a.</i>	<i>n.a.</i>	1,635	2,071	733	2,246
Nyasaland—						
Corundum	15	18	—	—	—	—
Southern Rhodesia—						
Corundum	2,536	1,044	3,971	4,024	4,102	2,499
Tanganyika—						
Garnet	—	—	15	80	120	181
Union of South Africa—						
Corundum	1,288	745	1,846	<i>r</i> 1,382	1,891	555
Garnet	—	—	—	16	—	—
Canada—						
Grindstones	—	9	—	—	—	—
Ceylon—						
Garnet	—	5	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
India—						
Corundum	4,701	240	352	<i>r</i> 444	389	211
Garnet	—	148	178	—	<i>n.a.</i>	<i>n.a.</i>
Malaya (a)—						
Corundum	—	2	—	—	—	—
Australia—						
Emery	—	8	—	—	—	—
Corundum	—	9	—	—	—	—
Garnet	—	<i>r</i> 85	<i>r</i> 85	<i>r</i> 70	36	59
New Zealand—						
Pumice (b)	8,854	7,741	7,614	15,171	23,082	28,395
OTHER COUNTRIES						
Belgium—						
Grindstones	52	48	64	64	44	47
France—						
Pumice (b)	9,940	9,050	12,801	7,840	6,296	3,300
Millstones	2,448	2,230	1,623	2,619	3,261	<i>n.a.</i>
Sharpening stones	197	1,093	1,923	73		
Germany (Federal)—						
Pumice (d)	1,981,000	2,773,000	3,541,000	2,912,000	2,906,000	3,607,000
Greece—						
Emery	8,000	9,000	7,000	7,000	7,000	<i>n.a.</i>
Pumice	31,215 <i>cu.m.</i>	<i>n.a.</i>	70,000	54,681	44,298	14,763
Pumicite	34,000	36,000	84,000	78,200	84,311	98,421
Iceland—						
Pumice (b)	10,826	(c) 13,000	(c) 17,000	13,484	(c) 13,000	(c) 13,000
Italy—						
Pumice	185,103	177,334	205,454	231,511	252,958	<i>n.a.</i>
Sharpening stones	2,953	2,559	1,277	2,192	2,038	<i>n.a.</i>
Whetstones	796	731	699	669	384	<i>n.a.</i>
Portugal—						
Tripoli	1,795	2,231	1,773	1,440	1,034	1,852
Spain—						
Tripoli	8,931	14,221	11,650	12,371	11,481	10,322
Garnet	195	198	208	248	363	216
Sweden—						
Grindstones and whetstones	849	657	875	597	787	<i>n.a.</i>

*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	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Canary Islands—						
Pumice (f)	472	842	1,501	—	—	1,640
Egypt—						
Pumice	394	161	(e) 150	1,639	1,058	980
Garnet	—	166	n.a.	n.a.	n.a.	n.a.
Malagasy Republic—						
Garnet	10	169	139	345	233	—
Mozambique—						
Corundum	1	8	—	—	—	—
United States (d)—						
Emery	8,712	9,585	10,851	10,619	6,863	7,638
Garnet	12,663	10,567	8,761	8,729	10,985	13,007
Pumice (a) (b) .. .	1,470,890	1,611,150	1,323,405	1,631,000	1,762,000	2,032,000
Tripoli	37,165	44,341	40,187	45,283	42,004	47,293
Grindstones	1,980	2,499	(c) 2,490	1,344	761	965
Grinding pebbles ..	2,741	1,902	2,080	2,591	1,772	1,513
Argentina—						
Garnet	n.a.	150	534	706	n.a.	n.a.
Turkey—						
Emery	4,726	6,987	6,282	4,063	3,363	4,753

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

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

	1954	1955	1956	1957	1958	1959
Silicon carbide .. .	44,929	66,917	71,846	74,394	69,221	77,007
Fused alumina .. .	178,444	158,180	162,348	194,810	97,774	135,999

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):—

	1954	1955	1956	1957	1958	1959
Silicon carbide .. .	59,796	66,790	85,516	111,329	98,621	118,266
Aluminium oxide .. .	195,811	174,841	174,311	204,028	109,704	141,421
Metallic abrasives ..	105,443	140,729	125,406	117,413	90,321	112,064
(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:

	1954	1955	1956	1957	1958	1959
..	14,573	long tons	
..	28,976	.. ..
..	33,989	.. ..
..	18,897	.. ..
..	n.a.		
..	n.a.		

(b) Including volcanic cinders used principally for ballast which amounted to 616,121 tons in 1954, 858,505 tons in 1955, 530,947 tons in 1956, 689,629 tons in 1957, 936,000 tons in 1958 and 1,332,000 tons in 1959.

(c) Including oilstones and other sharpening stones.

(d) Sold or used by producers.

(e) United States Bureau of Mines' estimate.

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

EXPORTS OF ABRASIVES*

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Abrasives, natural ..	2,327	2,619	2,543	2,322	1,442	2,339
do. artificial ..	1,031	1,656	2,417	3,221	3,209	3,744
Grinding wheels, etc. ..	4,370	4,927	4,579	4,547	4,150	4,968
Other manufactured abrasives ..	355	332	336	296	310	357
Rhodesia and Nyasland—						
Corundum ..	2,393	1,590	3,399	4,027	4,343	2,940
Union of South Africa—						
Corundum ..	1,262	760	1,458	1,635	1,206	1,048
Canada—						
Natural abrasives, including diatomaceous earth ..	11	29	40	52	21	59
Artificial abrasives, crude ..	230,485	230,144	237,478	273,690	168,393	216,869
Artificial abrasive wheels, etc. ..	(£4,281)	(£6,447)	(£6,344)	(£9,181)	(£15,105)	(£78,204)
Grindstones ..	(£35,230)	(£16,378)	(£33,688)	(£17,098)	(£26,161)	(£24,117)
Hong Kong—						
Grinding and polishing wheels, etc. ..	(£42,902)	(£25,918)	(£23,779)	(£15,120)	(£11,642)	170
Malaya—						
Corundum ..	—	2	—	—	—	—
Grinding and polishing wheels, etc. ..	33	66	64	54	52	87
New Zealand—						
Pumice (a) ..	706	r 1,540	1,093	1,569	1,082	1,128
OTHER COUNTRIES						
Austria—						
Emery and other natural abrasives ..	765	833	710	802	729	41
Grindstones ..	—	—	—	—	2	} 6
Millstones ..	401	236	568	325	390	
Artificial abrasives ..	1,003	1,539	2,060	3,328	2,720	2,236
Belgium-Luxemburg						
E.U.—						
Emery and other natural abrasives ..	503	45	42	33	35	101
Corundum, artificial ..	26	7	8	4	46	53
Millstones, grindstones, etc. ..	73	71	71	81	65	64
Denmark—						
Emery ..	2	3	3	3	8	2
Millstones and grindstones ..	228	149	270	293	385	37
Finland—						
Grindstones, etc. (b) ..	314	53	93	388	120	261
France—						
Corundum and emery ..	309	204	185	205	462	724
Pumice ..	34	22	11	12	19	56
Other natural abrasives ..	n.a.	n.a.	48	80	60	257
Millstones and grindstones ..	1,567	1,448	799	846	876	804
Whetstones ..	56	41	38	73	60	41
Carborundum ..	765	1,540	1,459	1,604	1,351	2,720
Corundum, artificial ..	3,999	5,481	5,028	5,548	5,613	6,775

*See also Aluminium, Diamonds and Diatomaceous earth.

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

(b) Including artificial.

EXPORTS OF ABRASIVES (cont.)

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (Federal)—						
Emery	} 173	1,665	256	209	197	321
Pumice			862	194	(b) 545,755	(b) 495,421
Other natural abrasives			2	1	7	40
Millstones, grindstones, etc. (a)	2,544	2,595	2,602	2,439	2,206	2,447
Carborundum	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	4,200	3,358
Corundum, artificial	5,998	9,077	11,324	12,871	14,368	16,287
Greece—						
Emery	6,621	8,321	r 4,579	r 8,258	5,872	3,315
Pumice	16,732	17,993	10,850	38,135	41,006	20,799
Italy—						
Pumice	39,383	49,111	54,919	54,565	68,256	90,786
Emery and corundum	29	52	43	169	78	128
Tripoli	76	91	40	45	142	55
Millstones	29	32	116	133	262	} 391
Grindstones	67	92	87	129	124	
Whetstones	104	106	95	74	50	85
Carborundum	63	110	108	175	267	882
Corundum artificial	420	458	19	200	318	316
Netherlands—						
Emery, etc.	2,265	2,809	2,965	3,317	2,853	3,007
Norway—						
Emery, etc.	35	46	25	8	9	—
Whetstones	31	—	—	—	—	—
Sweden—						
Emery	4	1	5	—	—	1
Other natural abrasives	1	—	1	8	4	—
Carborundum	219	504	580	331	290	765
Corundum, artificial	230	392	473	552	706	852
Millstones, grindstones, etc.	155	170	200	142	108	132
Switzerland—						
Carborundum, emery, etc., crude	81	261	56	74	167	22
do. do. ground	1,563	2,299	1,568	1,723	1,632	2,017
Grindstones	3	—	1	11	2	5
Malagasy Republic—						
Garnet	1	189	109	323	244	1
Mozambique—						
Corundum	—	—	8	—	—	—
Costa Rica—						
Millstones	161	49	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Mexico—						
Pumice, etc.	5,854	875	190	21	—	232
United States—						
Corundum	135	139	222	186	149	81
Emery powder	1,160	1,250	1,727	1,046	984	1,216
Grindstones	319	404	384	295	250	358
Whetstones, etc.	58	94	56	88	91	152
Other natural abrasives	46,736	58,670	63,480	65,650	10,677	9,398
Aluminium oxide, fused	10,103	11,781	11,079	9,587	8,156	8,151
Carborundum	5,886	6,313	7,001	6,830	9,506	7,347
Unfused alumina	173	105	30	50	68	59
Other crude artificial abrasives	15	51	71	138	89	93
Japan—						
Emery	88	51	124	187	150	172
Other natural abrasives	10	86	147	131	68	61
Grindstones, etc.	158	246	100	141	152	173
Artificial abrasives	185	112	407	263	293	359
Turkey—						
Emery	8,458	9,230	8,561	7,843	6,468	7,096

(a) Including artificial.

(b) Including pumice and pumicite for construction purposes.

IMPORTS OF ABRASIVES*

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Emery	6,986	4,062	3,923	4,209	2,314	} 3,024
Garnet concentrates—						
Unground	160	250	298	431	455	
Ground	402	357	392	394	339	
Other natural abrasives	6,201	9,067	8,125	r 7,277	6,787	8,019
Aluminium oxide .. .	26,173	30,555	25,207	23,067	27,957	14,226
Carborundum	11,028	11,387	11,246	9,539	7,883	9,161
Grinding wheels of hard abrasives	72	83	119	} 151	177	319
Grindstones and whetstones	2	48	36			
Other manufactured abrasives	76	106	99	—	—	—
Malta—						
Pumice	14	200	13	78	81	141
Kenya and Uganda—						
Grindstones, etc. .. .	31	37	74	45	46	62
Mauritius—						
Grindstones, etc. .. .	39	(£2,760)	43	44	30	60
Tanganyika—						
Grindstones, wheels, etc.	14	23	22	18	13	21
Union of South Africa—						
Emery	43	44	42	41	96	n.a.
Pumice	75	85	53	62	73	n.a.
Other abrasives (£S.A.)	(£133,469)	(£141,496)	(£184,574)	(£189,850)	(£186,205)	n.a.
Abrasive wheels and discs .. (£S.A.)	(£77,246)	(£76,483)	(£63,303)	(£66,605)	(£70,044)	n.a.
Grindstones, millstones, etc. .. (£S.A.)	(£4,808)	(£4,566)	(£5,488)	(£2,933)	(£4,375)	n.a.
Canada—						
Pumice, etc.	(£59,717)	(£77,948)	(£88,239)	(£94,935)	(£109,144)	(£74,625)
Emery, ground	(£73,447)	(£75,512)	(£88,303)	(£92,868)	(£86,096)	(£89,533)
Artificial abrasives, ground	(£568,729)	(£723,285)	(£848,412)	(£820,892)	(£703,823)	(£877,375)
Buhrstones	(£353)	(£272)	(£266)	(£219)	—	—
Emery and artificial abrasives manufactures	(£110,186)	(£124,077)	(£188,795)	(£223,650)	(£203,924)	(£234,754)
Grindstones and wheels	(£699,348)	(£820,294)	(£931,892)	(£886,165)	(£774,907)	(£940,982)
British West Indies—						
Jamaica—						
Natural abrasives .. .	63	32	5	5	3	5
Grindstones	7	8	11	6	10	12
Trinidad and Tobago—						
Grindstones and wheels	16	38	18	15	19	25
Ceylon—						
Grindstones	(£7,959)	(£1,195)	(£11,368)	(£9,969)	(£9,529)	(£11,848)
Cyprus—						
Grindstones and millstones	(£3,841)	(£2,849)	(£2,437)	(£3,926)	(£3,440)	(£6,751)
Hong Kong—						
Grinding and polishing wheels, etc.	(£108,162)	(£40,324)	(£46,509)	(£40,316)	(£35,049)	257
India—						
Natural abrasives .. .	n.a.	n.a.	n.a.	2,384	986	1,973
Carborundum	n.a.	n.a.	n.a.	231	175	116
Malaya—						
Grinding and polishing wheels, etc.	274	424	450	408	368	462

*See also Aluminium, Diamonds and Diatomaceous earth.

IMPORTS OF ABRASIVES (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES (cont.)						
Australia (b)—						
Emery	101	121	107	79	132	93
Corundum	33	13	84	26	93	13
Pumice	952	1,812	1,440	1,210	1,414	1,174
Grindstones, etc. .. .	103	182	89	113	87	99
Garnet grains	28	93	25	41	48	53
Tripoli	179	251	300	244	306	454
Other natural abrasives	127	69	45	99	151	81
Artificial abrasives .. .	2,244	2,773	2,372	2,887	2,793	3,132
New Zealand—						
Pumice	75	—	—	2	—	1
Corundum, emery, etc.	8	r 15	r 11	9	18	13
Other natural abrasives (£N.Z.)	—	(£2,030)	(£3,565)	(£3,602)	(£2,966)	(£1,968)
Carborundum, etc. .. .	58	r 72	69	r 50	79	68
Grindstones, etc. (£N.Z.)	(£13,807)	(£13,148)	(£12,966)	r(£17,007)	(£15,022)	(£12,834)
Irish Republic—						
Grindstones, oilstones, etc.	119	159	113	102	122	111
OTHER COUNTRIES						
Austria—						
Emery and other natural abrasives	218	298	258	221	200	173
Artificial abrasives .. .	1,956	3,148	2,910	2,644	3,000	2,269
Pumice	175	353	616	510	417	410
Grindstones	139	215	158	64	86	} 147
Millstones	98	121	117	83	97	
Belgium-Luxemburg						
E.U.—						
Emery and other natural abrasives	27,273	1,063	2,403	4,688	945	1,117
Corundum, artificial .. .	935	1,269	1,119	1,196	1,094	1,130
Millstones, grindstones, etc.	282	216	199	236	161	166
Carborundum	904	1,076	1,575	1,262	1,040	1,204
Denmark—						
Emery, etc.	487	265	360	466	380	1,641
Pumice	768	946	1,400	1,406	1,696	2,008
Carborundum	256	780	993	608	697	317
Millstones and grindstones	244	181	142	150	210	134
Finland—						
Emery, pumice, etc. .. .	828	672	561	500	479	591
Carborundum	134	242	260	263	275	351
Millstones, etc. (a) .. .	19	—	—	—	3	—
Whetstones, grindstones, etc. (a) .. .	1,418	1,368	918	739	723	984
France—						
Corundum	18	14	} 1,668	830	3,030	399
Emery	2,507	2,211				
Pumice	44,264	43,279	59,572	91,961	81,843	42,734
Millstones and grindstones	123	192	195	103	196	271
Whetstones	131	175	167	94	130	193
Carborundum	1,044	2,143	1,776	1,793	1,805	1,124
Corundum, artificial .. .	108	787	1,023	860	723	494

(a) Including artificial.

(b) Years ended June 30 of that stated.

IMPORTS OF ABRASIVES (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
Germany (Federal)—						
Emery	6,312	8,117	1,340	1,293	991	537
Pumice, etc. .. .			6,194	6,459	6,144	6,182
Other natural abrasives			135	76	150	436
Millstones, grindstones, etc. (a) .. .	281	323	502	276	331	300
Carborundum .. .	n.a.	n.a.	n.a.	n.a.	1,551	2,375
Corundum, artificial ..	1,225	1,142	683	499	398	530
Iceland—						
Millstones, etc. .. .	30	38	8	13	16	24
Italy—						
Emery and corundum ..	1,142	1,866	1,014	1,545	1,896	1,376
Tripoli	341	576	543	639	586	537
Millstones	100	125	32	142	36	308
Grindstones	169	123	100	89	95	
Whetstones	25	51	23	15	15	20
Corundum, artificial ..	1,534	2,607	2,719	3,002	2,959	2,817
Carborundum	1,746	2,150	2,375	2,181	1,863	1,323
Netherlands—						
Emery	3,144	4,322	4,137	3,980	3,723	3,362
Other natural abrasives	2,005	2,400	2,085	1,698	1,907	2,117
Millstones and grindstones .. .	248	219	147	142	132	170
Corundum, artificial ..	476	828	905	1,464	1,526	1,820
Carborundum	306	433	479	579	657	739
Norway—						
Emery, etc.	577	620	768	552	581	362
Whetstones	6	3	3	1	3	2
Portugal—						
Emery, etc.	350	382	447	512	613	579
Pumice	164	201	257	201	242	219
Millstones	121	150	64	63	42	75
Spain—						
Emery powder	16	43	22	15	21	112
Carborundum	376	360	340	1,268	395	553
Sweden—						
Emery	494	464	468	586	405	487
Pumice	156	226	192	205	263	584
Other natural abrasives	686	911	605	801	1,019	
Carborundum, etc. .. .	1,496	1,771	1,911	2,517	1,815	2,582
Corundum, artificial ..	1,501	2,693	2,984	3,519	2,630	3,281
Grindstones, etc. .. .	140	176	160	128	121	176
Millstones	113	107	41	51	48	
Switzerland—						
Emery, crude	410	693	811	343	532	304
Carborundum, emery, etc., ground .. .	865	1,156	2,110	2,194	1,874	1,992
Millstones	24	32	49	51	83	57
Grindstones	266	300	174	202	169	198
Whetstones	17	18	17	17	12	16
Yugoslavia—						
Natural abrasives .. .	849	795	1,090	1,217	1,418	1,179
Algeria—						
Emery, corundum, etc.	3	5	11	95	78	241
Pumice (b)	8,332	11,276	18,883	23,191	32,625	43,671
Millstones and grindstones .. .	245	156	143	84	181	136
Belgian Congo—						
Natural abrasives .. .	28	25	34	27	22	12
Corundum, artificial ..	5	10	65	128	227	129

(a) Including artificial.

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

IMPORTS OF ABRASIVES (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
Egypt—						
Emery, pumice, etc. ..	1,379	3,780	1,921	2,383	1,015	2,555
Millstones	6	26	5	21	27	16
Grindstones	37	51	20	14	—	6
Whetstones	33	4	—	—	—	3
Malagasy Republic—						
Emery, etc.	16	7	24	91	65	22
Morocco—						
Millstones and grindstones	(a) 126	(a) 109	50	30	46	46
Emery, pumice, etc. ..	875	870	1,152	131	23	35
Sudan—						
Grindstones	21	51	67	r 119	104	n.a.
Tunisia—						
Pumice	5,361	3,643	199	7	550	25
Millstones and grindstones (a)	97	99	91	58	109	77
Cuba—						
Grindstones	742	568	700	639	1,035	n.a.
Guatemala—						
Emery	14	15	22	22	24	n.a.
Mexico—						
Emery and carborundum	1,196	1,078	1,077	1,049	1,306	741
Pumice	4	5	10	360	7	15
Millstones and grindstones	451	665	722	795	784	680
United States—						
Corundum, crude	989	1,249	1,658	3,664	4,183	2,978
Emery, crude	500	750	1,750	1,191	11	1,000
Corundum and emery, ground	217	506	429	645	462	1,124
Pumice, crude	18,706	26,731	17,399	31,413	34,476	19,393
do. manufactured	848	1,337	1,174	1,897	1,673	3,561
Tripoli, etc.	—	25	—	8	38	15
Crude artificial abrasives	200,103	197,143	206,998	251,351	140,830	201,357
Argentina—						
Emery	919	1,505	1,751	2,759	2,628	1,919
Grindstones	—	—	—	1	1	—
Oil stones	3	10	—	—	—	—
Brazil—						
Emery, pumice, etc. ..	149	129	66	69	63	51
Carborundum	406	296	491	460	478	452
Millstones, grindstones, etc.	940	1,095	814	284	173	144
Chile—						
Emery	33	11	r 22	68	n.a.	n.a.
Carborundum	6	1	15	7	n.a.	n.a.
Millstones, grindstones, etc.	80	180	r 314	r 290	140	n.a.
Colombia—						
Emery and pumice	52	42	58	81	50	52
Tripoli and other natural abrasives	85	123	213	149	87	32
Millstones and grindstones (a)	82	92	143	107	156	136
Peru—						
Emery and pumice	38	34	38	34	38	55
Millstones, grindstones, etc. (a)	69	99	90	89	59	86
Venezuela—						
Emery and pumice	206	71	82	114	66	n.a.
Carborundum	62	45	86	85	113	n.a.

(a) Including artificial.

IMPORTS OF ABRASIVES (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
Indonesia—						
Emery	62	126	235	109	33	47
Other natural abrasives	95	77	195	121	76	37
Iran (b)—						
Emery, etc. .. .	5	<i>n.a.</i>	17	9	12	<i>n.a.</i>
Iraq—						
Emery, pumice, etc. ..	2	3	28	10	9	<i>n.a.</i>
Grindstones, whet- stones, etc. .. .	21	29	148	160	170	<i>n.a.</i>
Japan—						
Emery	58	197	161	190	44	106
Other natural abrasives	64	182	242	366	393	472
Grindstones, etc. ..	25	16	2	33	2	6
Artificial abrasives ..	430	326	212	623	451	479
Lebanon—						
Emery	3	3	5	7	—	6
Pumice, etc. .. .	2	23	6	4	11	10
Millstones .. .	15	25	81	20	7	35
Philippine Republic—						
Emery	<i>n.a.</i>	<i>n.a.</i>	135	277	176	122
Pumice	1	12	3	2	42	31
Other natural abrasives	<i>n.a.</i>	<i>n.a.</i>	147	176	69	45
Syria—						
Emery	93	99	103	1	98	30
Pumice, etc. .. .	2	267	1	11	1,065	867
Thailand—						
Natural abrasives ..	272	345	399	492	549	538
Turkey—						
Natural abrasives ..	1	10	1	3	—	1
Millstones and grind- stones (a) .. .	222	96	391	263	186	127

(a) Including artificial.

(b) Years ended March 20 of that following.

ALUMINIUM
(Including Bauxite and Cryolite)
PRODUCTION OF BAUXITE

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Ghana (a)	163,516	116,285	137,872	185,403	207,120	147,833
Jamaica (b)	2,033,786	2,645,345	3,141,688	4,595,943	5,721,990	5,125,603
British Guiana (c)	2,309,919	2,435,282	2,480,966	2,201,903	1,585,879	1,674,416
India	74,747	r 90,423	r 99,266	r 107,898	166,188	214,548
Malaya	165,621	222,162	264,444	325,629	262,354	381,747
Pakistan	—	1,024	3,000	3,316	1,977	2,139
Sarawak	—	—	—	—	136,319	206,848
Australia	5,487	7,563	10,329	7,707	6,909	15,000
TOTAL	4,753,076	r 5,518,084	r 6,137,565	r 7,427,799	8,088,736	7,768,000
OTHER COUNTRIES						
Austria	16,993	18,836	21,744	21,972	23,198	23,602
France	1,254,700	1,469,200	1,438,800	1,657,000	1,801,000	1,716,900
Germany (Federal)	4,100	3,800	4,800	4,600	3,700	4,400
Greece	347,936	492,271	686,958	820,487	842,682	886,000
Hungary	1,240,000	1,221,000	878,600	902,773	1,035,983	941,634
Italy	289,453	322,004	271,426	257,478	294,307	289,596
Roumania	31,000	36,000	51,000	60,000	72,000	70,000
Spain	5,644	6,290	6,921	8,069	8,213	7,538
U.S.S.R. (e)	1,390,000	2,030,000	2,190,000	2,410,000	2,710,000	2,950,000
Yugoslavia	675,844	778,524	867,497	874,211	721,000	802,000
Guinea	484,377	485,389	444,400	360,100	325,000	297,000
Mozambique	2,397	2,611	3,705	4,963	4,672	4,216
Dominican Republic (b)	—	—	—	—	—	759,000
Haiti (b)	—	(f)	(f)	263,000	280,000	255,000
United States (b)	1,994,896	1,788,341	1,744,000	1,416,000	1,311,000	1,700,000
Brazil	27,182	44,359	68,653	62,546	68,750	95,466
Surinam	3,367,137	3,013,569	3,427,564	3,324,504	2,820,013	3,338,848
Indonesia	170,503	259,511	298,510	237,653	338,473	318,137
TOTAL (d)	11,300,000	r12,100,000	r12,500,000	12,700,000	12,600,000	14,500,000
WORLD'S TOTAL (d)	16,100,000	r17,600,000	r18,600,000	20,100,000	20,700,000	22,300,000

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):—

	1954	1955	1956	1957	1958	1959
Metallurgical	1,937,171	1,893,939	1,721,098	1,628,172	1,076,510	1,154,713
Chemical	35,285	50,765	76,930	84,405	75,606	92,916
Refractory	115,284	144,458	215,401	125,190	95,030	146,374
Abrasive	91,125	104,550	111,872	164,382	96,910	123,425

Exports of calcined ore are shown on page 12.

(d) Estimated.

(e) United States Bureau of Mines estimate.

(f) A stockpile of 250,000 tons was built up during the development period 1955 to 1956.

PRODUCTION (EXPORTS) OF CRYOLITE IN GREENLAND

Year	Long tons					
1954	52,687	
1955	41,131	
1956	38,276	
1957	48,515	
1958	40,323	
1959	41,377	

PRODUCTION OF ALUMINIUM

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom (a) ..	31,603	24,445	27,582	29,404	26,354	24,519
Canada	498,122	546,913	553,858	497,067	566,162	535,137
India	4,886	7,225	6,501	r 7,784	8,185	17,081
Australia	—	1,248	9,143	10,624	10,869	11,370
TOTAL	534,611	579,831	597,084	r 544,879	611,570	588,107
OTHER COUNTRIES						
Austria	47,248	56,296	58,474	58,474	55,996	64,528
Czechoslovakia ..	15,180	23,996	20,869	16,425	25,980	(d) 29,000
France	118,164	127,411	147,395	157,304	166,280	170,264
Germany—						
Federal (b) ..	127,178	134,901	145,035	151,408	134,606	148,778
East (c)	21,000	26,000	30,000	32,000	34,000	34,000
Hungary	32,300	36,380	34,260	25,585	38,892	44,947
Italy	56,592	60,723	r 62,701	r 65,161	63,038	73,802
Norway	60,343	70,627	90,490	94,134	119,444	143,644
Poland	5,100	20,100	21,500	20,038	22,088	22,400
Roumania	—	(d) 5,500	(d) 7,900	(d) 10,000	(d) 10,000	(d) 10,000
Spain	4,606	10,275	13,334	r 14,929	15,865	22,284
Sweden	10,444	9,877	12,262	13,356	13,493	15,277
Switzerland ..	26,000	29,743	29,600	30,569	31,000	33,827
U.S.S.R. (d) ..	335,000	424,000	450,000	490,000	540,000	640,000
Yugoslavia ..	3,441	11,317	14,430	17,848	21,339	18,941
Cameroon (French)	—	—	—	7,481	31,363	41,647
United States (e)	1,304,076	1,397,965	1,499,066	1,471,169	1,397,819	1,743,906
Brazil	1,439	1,638	6,179	8,745	11,698	(d) 11,800
China (d)	2,900	10,000	10,000	20,000	26,600	69,300
Formosa	7,018	6,890	8,621	8,129	8,442	7,337
Japan	52,273	56,600	64,955	66,905	83,242	98,558
TOTAL	2,200,000	2,500,000	2,700,000	2,800,000	2,900,000	3,400,000
WORLD'S TOTAL	2,700,000	3,100,000	3,300,000	3,300,000	3,500,000	4,000,000

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

1954	103,354 long tons
1955	127,089 " "
1956	117,679 " "
1957	108,385 " "
1958	109,746 " "
1959	121,373 " "

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

1954	68,898 long tons
1955	91,249 " "
1956	85,864 " "
1957	88,332 " "
1958	100,154 " "
1959	111,276 " "

(c) Estimated.

(d) United States Bureau of Mines' estimate.

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

1954	260,751 long tons
1955	299,995 " "
1956	303,364 " "
1957	323,053 " "
1958	258,531 " "
1959	321,357 " "

EXPORTS OF ALUMINIUM, ETC.

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Alumina	10,497	20,259	26,308	32,725	38,243	33,424
Ingots, etc. (a) .. .	4,033	3,638	9,681	6,896	2,124	3,664
Scrap (a)	304	30	15	52	55	134
Sheets, strip and plates	8,102	8,871	14,160	9,064	8,218	13,158
do. alloyed	14,700	14,678	17,068	12,716	11,977	17,297
Discs, circles and slugs	4,767	5,411	4,541	4,025	2,691	5,043
do. alloyed	263	229	341	337	375	949
Bars, rods, tubes, shapes						
and wire	3,462	5,520	4,478	5,050	1,923	733
do. alloyed	4,084	4,746	4,473	4,605	3,607	3,953
Powder	874	779	791	725	529	954
Foil (a)	3,688	4,747	5,469	5,357	6,035	7,418
Aluminium sulphates ..	35,752	38,985	42,136	34,619	34,841	30,263
Ghana—						
Bauxite	175,991	116,285	137,872	185,403	207,120	147,833
Union of South Africa—						
Aluminium sulphates ..	1,014	201	188	94	363	69
Canada—						
Blocks, bars and ingots	418,298	455,921	454,459	427,384	431,185	451,198
Scrap	12,431	11,716	8,019	11,502	11,262	14,444
Sheets, rods, etc. .. .	15,577	11,523	6,320	11,244	15,527	22,462
Foil	491	803	405	210	153	132
Jamaica—						
Bauxite (b)	1,728,103	2,172,275	2,575,121	3,641,353	4,799,037	4,196,793
Alumina	r 124,116	183,969	r 207,332	r 435,746	373,108	399,210
British Guiana—						
Bauxite dried	1,916,200	1,916,891	1,789,765	1,734,064	1,168,637	1,242,301
do. calcined	209,335	252,330	317,878	287,130	195,649	272,305
Hong Kong—						
Unwrought (a)	3	58	271	7	24	5,054
Scrap	108	191	267	94	229	334
Plates and sheets .. .	20	26	171	106	433	784
Foil	41	72	177	357	180	184
India—						
Bauxite	3,022	8,766	4,405	8,467	20,549	23,189
Aluminium sulphates ..	n.a.	n.a.	n.a.	246	129	135
Malaya—						
Bauxite	167,290	259,442	251,853	340,624	246,605	363,809
Unwrought (a)	26	—	16	10	10	16
Plates and sheets (a) ..	269	357	326	218	138	195
Bars, rods, wire, foil (a)	11	3	7	7	17	91
Aluminium sulphates ..	1,051	381	211	477	242	341
Sarawak—						
Bauxite	—	—	—	—	99,930	202,925
Australia (c)—						
Bauxite	26	—	—	—	—	12
Pigs, ingots, etc. (a) ..	182	—	—	764	1	3
Scrap (a)	773	120	59	118	130	218
Bars and sheets (a) .. .	66	29	31	20	109	128
Aluminium sulphates	49	n.a.	n.a.	n.a.	n.a.	n.a.
OTHER COUNTRIES						
Austria—						
Bauxite	9,327	8,406	6,962	6,765	8,516	6,498
Crude (a)	20,911	24,974	24,002	22,524	31,695	37,642
Scrap	2,125	1,956	2,469	3,240	4,681	4,027
Sheets, rods, wire, foil,						
etc.	6,353	5,116	7,786	7,224	6,300	11,139

(a) Including alloys.

(c) Years ended June 30 of that stated.

(b) Estimated dry equivalent: shipments contain 8-14 % free moisture.

EXPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
(cont.)						
Belgium-Luxemburg						
E.U.—						
Alumina and hydrates ..	3	23	1	1	1	15
Crude	1,661	836	577	421	738	590
Scrap	257	170	110	387	2,586	1,489
Bars, sheets, wire ..	3,849	6,215	n.a.	n.a.	n.a.	n.a.
Aluminium sulphates ..	22,692	26,708	28,487	18,097	16,407	16,583
Denmark—						
Refined cryolite ..	19,505	17,942	18,930	21,638	20,655	21,320
Crude	19	248	49	22	224	68
Scrap	292	343	197	290	298	613
Sheets, wire, foil, etc.,						
(a)	59	101	130	103	132	856
France—						
Bauxite	312,748	345,628	320,109	320,232	303,794	271,288
Cryolite	—	—	—	3	79	118
Alumina	72,256	79,595	96,325	113,738	172,215	184,685
Aluminium hydrates ..	7,223	12,594	8,631	11,136	7,677	17,388
Ingots	16,435	21,957	12,962	13,169	39,359	32,758
do. alloys	1,961	8,113	1,824	2,772	9,630	18,037
Scrap	63	386	452	448	1,321	1,273
Bars, sheets, wire, etc.,	2,704	4,256	2,519	2,870	4,626	5,330
do. alloys	816	1,725	2,861	2,460	4,222	7,083
Foil	324	306	535	692	1,319	2,497
Powder	63	90	42	122	186	285
Aluminium sulphates ..	9,477	5,403	5,479	6,489	6,283	6,905
Germany (Federal)—						
Bauxite and cryolite ..	315	60	21	74	165	668
Alumina	90,642	76,374	71,506	75,987	84,749	90,357
Aluminium hydrates ..	14,169	16,348	17,809	17,941	18,631	25,109
Crude and scrap (a) ..	12,102	611	1,544	7,110	4,273	1,949
Bars, sheets, wire, etc.,						
(a)	8,710	11,863	12,010	10,993	12,698	16,390
Foil	6,189	6,693	8,172	8,561	9,669	12,959
Powder	844	1,037	1,072	1,086	1,562	1,311
Aluminium sulphates ..	27,721	38,579	36,471	39,567	n.a.	n.a.
Greece—						
Bauxite	337,653	471,114	658,874	769,024	823,243	841,198
Hungary—						
Bauxite	770,636	545,439	369,674	459,418	529,979	458,916
Alumina	63,159	77,806	87,238	88,097	85,376	112,782
Crude	5,509	9,702	6,047	1,841	17,067	8,272
Italy—						
Alumina	27,283	34,569	40,130	38,389	53,098	41,973
Aluminum hydrates ..	5	560	1,087	16	637	38
Crude	11,401	4,549	3,132	1,058	8,872	9,284
Bars, sheets, wire (a) ..	1,346	2,661	3,340	2,988	4,643	5,495
Foil	34	203	163	395	445	554
Aluminium sulphates ..	4,595	5,481	3,381	2,152	4,470	n.a.
Netherlands—						
Crude (a)	427	3,585	652	654	2,207	1,726
Scrap	1,778	1,250	1,398	1,567	4,123	1,611
Bars, sheets and wire ..	800	777	1,196	901	1,946	2,203
Foil	103	141	231	279	239	252
Norway—						
Alumina	31	3	4	5	—	1
Crude	(a) 45,657	(a) 60,463	(a) 78,259	(a) 71,054	(a) 108,085	125,786
Scrap	297	109	134	96	124	131
Sheets, etc.	2,695	2,544	3,902	3,582	3,839	4,181
Roumania—						
Bauxite	n.a.	n.a.	n.a.	n.a.	36,400	80,700

(a) Including alloys.

EXPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
Sweden—						
Crude	2,646	588	706	459	3,042	941
Sheets, tubes and wire	585	2,691	2,391	3,510	2,979	5,348
Scrap	702	821	308	2,482	2,524	1,685
Aluminium sulphates ..	7,937	8,687	7,506	9,426	9,598	9,794
Switzerland—						
Blocks, ingots, etc. and scrap	7,659	4,523	2,709	2,927	8,522	10,924
do. (alloys)	2,363	2,624	2,044	2,551	3,856	3,760
Bars, sheets, tubes and wire	1,369	1,243	1,120	997	1,010	1,482
do. (alloys)	2,605	2,284	2,499	2,333	2,766	3,330
U.S.S.R.—						
Cryolite	<i>n.a.</i>	1,900	1,300	1,000	100	100
Crude	<i>n.a.</i>	40,900	59,000	84,100	113,100	76,200
Yugoslavia—						
Bauxite	553,219	647,951	668,754	688,916	583,019	592,019
Alumina and hydrates ..	4,329	19,605	13,594	12,502	3,592	23,450
Crude	—	2,798	2,595	2,541	5,384	—
Scrap	844	297	528	1,262	1,274	1,191
Bars, rods and wire	—	381	490	574	2,393	4,510
Plates and sheets	39	12	127	1,639	3,428	5,023
Algeria—						
Ingots	—	—	9	—	—	—
Scrap	158	278	325	353	355	441
Cameroon (French)—						
Ingots	—	—	—	6,763	27,398	44,196
Guinea—						
Bauxite	460,365	441,911	449,844	369,436	259,503	297,000
Mozambique—						
Bauxite	2,105	1,763	2,688	4,477	2,916	6,138
Dominican Republic—						
Bauxite	—	—	—	—	—	481,266
Greenland—						
Cryolite	52,687	41,131	38,276	48,515	40,323	41,377
Haiti—						
Bauxite (a)	—	—	—	r 373,000	370,629	338,151
United States—						
Bauxite, etc.	16,174	14,117	14,921	60,993	11,868	17,403
Cryolite	77	154	191	148	147	157
Ingots and alloys	3,611	5,329	30,909	r 25,987	47,064	108,108
Scrap	35,123	16,331	17,258	16,219	16,880	28,918
Plates, sheets, bars, etc.	5,402	7,150	11,154	12,291	8,199	5,386
Foil	211	485	380	791	264	506
Aluminium sulphates ..	12,950	17,495	14,402	17,580	8,807	12,935
Brazil—						
Bauxite	118	3,255	16,569	3,115	3,445	2,803
Surinam—						
Bauxite	3,371,891	3,011,672	3,427,564	3,324,649	2,820,000	3,330,351
Formosa—						
Ingots	2,334	3,111	3,926	3,269	1,775	2,045
Indonesia—						
Bauxite	242,882	258,623	308,301	253,815	385,544	243,087
Japan—						
Cryolite	447	—	—	—	101	22
Alumina	14,588	13,979	28,479	6,174	50,527	94,529
Aluminium hydrates ..	<i>n.a.</i>	<i>n.a.</i>	2,104	1,530	695	281
Ingots, etc.	8,294	14,060	2,867	235	4,340	169
Bars, rods, plates, tubes and wire	5,620	9,665	5,966	3,575	5,515	6,121
Scrap	—	—	—	2	—	—
Foil	<i>n.a.</i>	<i>n.a.</i>	580	675	828	1,069
Aluminium sulphates ..	4,127	2,313	2,424	2,632	3,997	14,117

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

IMPORTS OF ALUMINIUM, ETC.

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Bauxite	370,372	328,058	315,030	354,460	350,742	327,188
Cryolite	3,766	3,403	2,232	2,203	3,622	3,485
Alumina	14	30	42	280	239	6,080
Ingots, etc.	190,597	247,185	211,351	184,375	186,311	227,864
do. alloys	29	11,295	20,940	6,818	24,011	22,282
Scrap (a)	299	459	339	623	1,594	6,698
Bars, sheets, tubes, etc. (a)	180	590	517	656	2,272	4,873
Foil (a)	457	669	543	857	1,176	1,578
Ghana—						
Sheets	693	1,084	958	1,118	733	1,748
Kenya (a)—						
Unwrought and scrap	397	414	531	691	1,053	832
Bars, sheets, rods, etc.	2,355	1,142	42	58	37	57
Mauritius (a)—						
Bars, sheets, wire, etc.	35	77	185	178	200	196
Nigeria—						
Sheets	1,083	1,764	1,780	2,084	1,508	2,257
Rhodesia & Nyasaland—						
Ingots, bars and sheets	203	386	590	715	600	605
Foil	45	47	94	57	76	90
Sierra Leone—						
Sheets	49	31	98	100	99	38
South West Africa—						
Ingots, bars, sheets, etc.	6	(b)	(b)	(b)	(b)	(b)
Tanganyika (a)—						
Bars, sheets, rods, etc.	488	462	37	11	7	9
Uganda (a)—						
Bars, sheets, rods, etc.	896	1,120	40	2	2	4
Union of South Africa—						
Ingots, blocks and pigs	3,702	(c) 5,181	(c) 4,510	(c) 6,575	(c) 6,761	n.a.
Sheet, wire, foil, etc.	446	(c) 791	(c) 1,572	(c) r 1,324	(c) 1,425	n.a.
Aluminium sulphates	625	(c) 2,704	(c) 3,132	(c) r 3,977	(c) 3,367	n.a.
Barbados—						
Bars, sheets, tubes, wire	(£13,788)	(£9,638)	(£8,176)	22	43	57
Canada—						
Bauxite and alumina—						
For refining	2,638,767	2,582,227	2,115,296	2,026,327	1,934,371	1,849,998
For other purposes	5,964	178,403	196,880	241,628	134,615	165,625
Cryolite	3,977	3,038	16,348	14,212	6,102	5,369
Ingots, rods, sheets, etc.	3,587	4,763	14,544	11,481	17,290	7,212
Scrap	85	127	1,130	221	220	552
Leaf and foil	(£113,473)	(£354,479)	(£332,394)	(£350,091)	(£364,828)	(£335,584)
Powder	262	195	212	323	136	146
Aluminium sulphates	15,923	13,925	12,371	14,394	6,355	7,484
Trinidad and Tobago—						
Aluminium sulphates	118	216	521	1,847	303	336
British Guiana—						
Sheets, etc. (a)	156	272	207	484	168	222
Aluminium sulphates	148	350	321	343	424	480
Ceylon—						
Sheets	182	374	1,121	394	1,101	726
Foil	591	357	268	371	406	411
Hong Kong—						
Bauxite	49	177	152	169	315	412
Unwrought (a)	644	1,336	1,294	1,596	2,572	10,081
Scrap	12	9	24	5	56	70
Bars, sheets, wire, etc.	962	1,695	2,263	861	1,058	987
Foil	175	343	362	891	242	406

(a) Including alloys.

(b) Included with Union of South Africa.

(c) Including South West Africa.

IMPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
<i>(cont.)</i>						
India—						
Cryolite	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	590	1,649	917
Alumina	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	592	59	9,945
Crude	1,871	5,566	2,818	<i>r</i> 5,748	7,049	6,743
Bars, sheets, wire, etc. ..	1,292	1,063	1,708	<i>r</i> 14,181	10,505	8,885
Scrap	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,815	126	—
Foil	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	647	849	1,625
Aluminium sulphates ..	281	310	273	314	293	38
Malaya—						
Unwrought (<i>a</i>)	2	9	2	4	1	10
Plates and sheets (<i>a</i>) ..	2,352	2,214	3,348	1,974	973	1,648
Bars, rods, pipes, tubes and wire (<i>a</i>)	70	196	417	328	489	173
Foil (<i>a</i>)	138	199	156	196	204	414
Aluminium sulphates ..	1,816	1,169	3,578	3,064	4,432	4,268
Pakistan—						
Ingots, blocks, bars, etc. (c)	598	(c) 859	1,119	9,414	1,551	12,416
Sheets and circles .. (c)	530	(c) 1,000	921	1,530	757	840
Aluminium sulphates .. (c)	2,295	(c) 3,157	1,304	1,440	6,556	1,205
Sarawak—						
Unwrought (<i>a</i>)	—	300	1	—	—	—
Bars, sheets, wire etc. (<i>a</i>)	195	148	75	54	72	87
Aluminium sulphates ..	36	7	155	79	72	82
Australia (<i>b</i>)—						
Bauxite	—	9,337	28,716	35,169	55,575	83,311
Cryolite	161	88	145	1,257	1,446	1,210
Alumina	<i>n.a.</i>	50	54	32	38	36
Aluminium hydrates ..	<i>n.a.</i>	484	745	598	708	320
Pigs, ingots, blocks (<i>a</i>)	9,248	12,763	12,032	10,396	10,189	15,337
Bars, sheets, tubes (<i>a</i>)	1,673	3,094	2,953	2,802	2,572	2,523
Wire (<i>a</i>)	6	6	64	51	54	80
Leaf and foil	1,319	1,643	1,955	1,949	2,454	2,555
Powder	366	417	491	432	457	550
New Zealand—						
Ingots, etc.	568	579	288	<i>r</i> 387	820	780
Bars, sheets, tubes, etc. (a)	1,048	1,983	<i>r</i> 1,477	<i>r</i> 1,755	2,499	2,317
do. (alloys)	412					
Wire (<i>a</i>)	22	65	75	120	60	55
Leaf and foil	266	324	380	<i>r</i> 369	782	529
Aluminium sulphates ..	1,165	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Irish Republic—						
Bars, sheets, wire, etc. (a)	2,199	2,912	3,596	2,929	3,147	4,705
Foil (<i>a</i>)	520	541	437	573	636	636
Aluminium sulphates ..	3,329	3,288	3,643	3,368	3,966	3,619
OTHER COUNTRIES						
Austria—						
Bauxite	7,167	6,631	964	5,522	6,076	123
Cryolite	1,391	1,311	207	280	203	266
Alumina	104,476	101,086	123,028	104,430	99,207	131,001
Aluminium hydrates ..	2,750	3,254	3,296	3,147	3,306	3,314
Crude, scrap and alloys	56	154	130	208	384	499
Sheets, rods, wires, etc.	46	70	101	134	414	1,216
Aluminium sulphates ..	119	36	119	90	118	1,583
Belgium-Luxemburg						
E. U.—						
Bauxite	1,204	1,184	2,357	1,465	1,520	16,574
Alumina	918	211	229	262	463	263
Aluminium hydrates ..	10,035	11,580	10,010	8,654	8,645	9,302

(a) Including alloys.

(b) Years ended June 30 of that stated.

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

IMPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Belgium-Luxemburg						
E.U. <i>(cont.)</i> —						
Crude	17,656	24,135	31,904	25,194	38,465	43,313
do. alloys	416	2,493	1,458	2,116	2,939	5,296
Scrap	463	1,228	1,539	2,363	2,446	1,294
Bars, sheets, wire, foil, etc.	1,742	1,487	1,801	1,837	1,506	2,304
Aluminium sulphates ..	1,282	1,335	744	557	172	974
Denmark—						
Bauxite	255	1,210	1,066	703	576	205
Crude cryolite	41,037	32,983	27,753	(b) 33,000	(b) 28,000	28,977
Crude	2,909	4,687	3,136	3,665	4,252	6,299
Scrap	236	223	154	686	731	802
Bars, sheets, tubes and wire (a)	1,773	1,724	2,107	2,675	2,434	5,432
Leaf	477	592	797	576	1,071	1,547
Powder	62	53	57	94	58	85
Aluminium sulphates ..	3,292	3,601	3,996	3,318	3,993	4,005
Finland—						
Alumina	37	68	81	53	180	73
Crude	1,128	2,703	2,766	2,571	4,661	7,182
Bars, sheets and wire ..	2,650	5,182	5,719	5,569	4,464	7,536
Foil	323	526	505	609	419	548
Powder	238	258	314	371	229	392
Aluminium sulphates ..	18,023	18,195	20,772	20,823	21,961	21,486
France—						
Bauxite	11,847	10,224	19,392	23,166	38,625	44,251
Cryolite	1,209	1,314	1,532	1,341	2,540	1,437
Alumina	2	6	15	104	265	173
Aluminium hydrates ..	8	19	52	25	22	35
Ingots	1,565	1,046	6,918	8,687	28,654	32,805
Scrap	236	266	305	137	36	11
Sheets, bars and wire ..	723	389	186	121	328	82
Foil	277	729	1,491	719	408	614
Aluminium sulphates ..	—	21	19	17	2	2
Germany (Federal)—						
Bauxite	1,024,648	1,111,624	1,291,409	1,236,567	1,055,234	897,596
Cryolite	3,023	3,295	2,943	1,807	1,586	1,378
Alumina	31	2,178	99	69	403	92
Crude and scrap (a) ..	53,436	79,397	61,309	58,224	94,944	116,583
Bars, sheets, wire, etc. (a)	1,230	600	1,368	866	1,261	2,211
Foil	103	299	244	107	135	351
Powder	43	87	56	33	508	259
Germany (East)—						
Alumina, calcined ..	4,458	7,856	15,347	41,852	18,141	14,674
Greece—						
Crude	994	1,252	1,165	r 1,295	1,829	2,496
Foil	175	175	r 290	r 375	436	386
Aluminium sulphates ..	370	300	555	640	426	n.a.
Hungary—						
Cryolite	5,015	4,164	3,406	1,717	1,969	n.a.
Crude	—	1,570	200	10,970	1,890	1,006
Iceland—						
Bars, sheets, wire etc. ..	306	255	431	591	218	199
Italy—						
Bauxite	100,512	98,084	109,095	259,767	180,758	232,518
Cryolite	1,330	589	689	494	394	266
Alumina	49	63	40	90	148	755
Aluminium hydrates ..	44	171	673	510	83	137
Crude	3,103	5,284	9,331	12,343	4,633	13,649
do. alloys	1,804	895	2,504	4,668	962	2,130
Scrap	12,070	5,048	7,390	10,244	8,512	14,732
Bars, sheets and wire (a)	717	1,589	791	560	592	874

(a) Including alloys.

(b) Estimated.

IMPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Italy (<i>cont.</i>)—						
Foil	488	560	711	869	1,395	2,344
Aluminium sulphates ..	301	464	840	246	243	2,219
Netherlands—						
Bauxite	101	880	4,257	5,891	7,938	7,701
Cryolite	163	124	169	222	120	170
Alumina and hydrates	3,240	4,485	5,138	5,200	5,447	7,209
Crude and alloys	8,075	11,220	9,879	8,312	8,933	14,026
Scrap	205	261	347	570	989	1,322
Bars, sheets, wire, etc.	5,403	6,240	7,559	6,137	6,276	7,883
Foil	1,344	1,764	1,958	1,798	1,685	2,285
Aluminium sulphates ..	10,162	9,597	10,152	11,064	12,290	11,269
Norway—						
Bauxite	31,557	25,778	35,042	28,104	36,083	35,439
Cryolite	2,482	3,110	3,021	4,196	6,099	3,310
Alumina	121,138	137,683	142,102	190,937	193,623	305,289
Crude	1,061	71	1,095	127	1,557	32
Sheets and tubes	760	1,212	1,039	1,310	1,340	2,023
Foil	72	98	113	144	139	143
Aluminium sulphates ..	8,709	10,873	9,262	8,617	9,570	10,185
Portugal—						
Cryolite	16	21	13	33	15	28
Powder	99	100	105	93	76	80
Ingots, sheets and wire	1,912	1,916	2,770	2,504	2,647	2,600
Aluminium sulphates ..	1,426	1,783	1,887	2,012	2,153	2,588
Spain—						
Bauxite	11,083	10,271	21,559	18,617	17,544	8,942
Alumina	11,690	17,984	26,037	31,067	40,614	36,244
Ingots and scrap	2,708	2,297	2,901	5,053	10,921	6,380
Sheets, tubes and wire	1,732	434	191	117	404	193
Powder	26	15	11	11	15	11
Sweden—						
Bauxite	23,798	22,572	23,616	7,963	3,144	12,939
Cryolite (a)	1,379	(a) 1,617	(a) 1,028	(a) 1,260	(a) 775	409
Alumina and hydrates	16,222	23,724	26,509	27,296	18,529	30,065
Crude	15,165	18,626	19,546	15,768	20,634	18,315
Scrap	103	64	343	93	5	44
Sheets, tubes and wire	4,782	4,737	5,949	5,952	5,709	8,012
Foil	401	371	620	767	1,050	1,259
Aluminium sulphates ..	1,002	6,213	5,432	684	309	1,183
Switzerland—						
Alumina, etc.	58,281	64,688	59,192	61,840	59,575	55,000
Blocks, ingots, etc., and scrap	8,714	9,684	9,396	10,012	6,923	15,661
do. (alloys)	610	356	178	197	96	738
Bars, sheets, tubes and wire	92	30	191	92	1,414	3,299
do. (alloys)	91	240	125	159	101	184
U.S.S.R.—						
Bauxite (b)	<i>n.a.</i>	119,500	300,900	398,400	443,000	447,200
Crude	<i>n.a.</i>	6,900	9,500	—	—	—
Yugoslavia—						
Cryolite	1,383	1,123	1,211	907	951	758
Crude	571	274	1,024	1,582	—	5,784
Sheets, tubes, wire, etc.	244	723	214	171	123	198
Foil	8	27	18	47	117	47
Algeria—						
Bauxite	1,968	1,575	2,362	2,953	1,575	2,315
Ingots, sheets, wire, etc.	1,229	1,177	1,237	1,011	891	761
Aluminium sulphates ..	850	778	677	810	815	745
Angola—						
Bars and sheets	55	106	29	95	102	74
Aluminium sulphates ..	256	129	227	335	207	69

(a) Including artificial.

(b) Imports from Greece.

IMPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
(cont.)						
Belgian Congo—						
Cryolite	10	20	35	59	50	3
Alumina and hydrates	30	73	233	197	148	—
Bars, sheets and wire	1,172	1,676	1,640	1,774	1,692	1,573
Foil	<i>n.a.</i>	9	55	59	69	60
Aluminium sulphates	578	1,107	1,276	669	1,612	1,459
Egypt—						
Crude and scrap	12	68	129	216	647	1,463
Bars, sheets, tubes and wire	941	1,279	792	550	965	826
Foil	262	254	291	402	434	572
Aluminium sulphates	7,167	9,427	8,746	13,234	17,758	<i>n.a.</i>
Malagasy Republic—						
Aluminium sulphates	69	77	50	127	300	184
Morocco—						
Bauxite	1,026	1,650	1,458	—	—	—
Ingots and scrap	63	91	30	44	37	20
Bars, sheets and wire	315	649	400	483	580	510
Foil	<i>n.a.</i>	<i>n.a.</i>	155	67	161	145
Aluminium sulphates	1,633	861	1,945	501	1,209	1,484
Mozambique—						
Bars, sheets, wire	49	45	68	68	82	93
Tunisia—						
Ingots and scrap	10	11	18	7	39	194
Aluminium sulphates	107	304	377	107	316	324
Costa Rica—						
Bars, sheets, foil, etc.	15	193	155	214	280	256
Cuba—						
Ingots and bars	187	425	410	760	553	<i>n.a.</i>
Sheets, tubes, wire	839	1,186	1,304	<i>r</i> 1,702	1,617	<i>n.a.</i>
Aluminium sulphates	2,128	4,954	1,707	<i>r</i> 1,204	541	<i>n.a.</i>
Guatemala—						
Aluminium sulphates	318	579	789	1,052	999	<i>n.a.</i>
Mexico—						
Bauxite, calcined	<i>n.a.</i>	<i>n.a.</i>	—	2,167	3,695	3,534
Alumina and hydrates	1,397	2,053	4,604	5,152	3,517	4,125
Ingots	4,514	7,865	7,878	8,690	12,208	9,381
Bars, sheets, wire, etc.	1,405	3,080	461	278	247	290
Aluminium sulphates	<i>n.a.</i>	<i>n.a.</i>	661	856	830	705
United States—						
Bauxite, crude dried	4,988,122	4,882,493	5,669,833	7,098,000	7,915,000	8,107,000
do. calcined	99,421	107,694	148,676	<i>r</i> 67,376	29,515	108,657
Cryolite	18,876	19,625	20,645	29,207	21,595	19,734
Alumina and hydrates	2,347	3,151	3,487	1,592	47,943	115,506
Crude and alloys	192,188	158,618	193,215	198,355	227,966	213,902
Scrap	13,254	36,474	23,207	14,527	8,859	9,749
Sheets, bars, etc.	12,192	18,725	20,162	<i>r</i> 17,479	24,950	45,212
Foil (a)	819	1,569	1,476	1,564	2,474	4,044
Aluminium sulphates	3,516	4,721	3,159	2,908	3,289	5,083
Argentina—						
Bauxite	1	2,638	17,138	12,598	26,574	15,953
Ingots and sheets	15,893	14,536	19,533	12,402	12,933	9,156
Aluminium sulphates	612	—	—	—	—	—
Brazil—						
Cryolite	734	313	1,108	645	944	685
Alumina	302	262	106	193	15	2,821
Aluminium hydrates	258	79	200	178	671	604
Ingots	14,955	6,348	12,548	12,492	13,885	8,785
Bars, sheets, tubes, wire	1,926	300	1,029	586	437	320
Scrap	—	—	889	—	1	—
Foil	133	15	3	96	116	10
Aluminium sulphates	6,701	2,873	524	11	46	1

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

IMPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Chile—						
Ingots	665	1,046	819	779	1,205	881
Bars, sheets and alloys	563	480	<i>r</i> 390	<i>r</i> 95	44	133
Aluminium sulphates	8	14	5	22	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Bauxite	14	—	37	30	1,771	3,025
Alumina and hydrates	32	35	69	115	44	439
Ingots and plates ..	1,535	1,449	1,804	1,175	2,210	2,028
Bars, sheets and wire ..	305	394	848	518	234	125
Foil	295	403	603	465	387	367
Aluminium sulphates ..	6,734	7,198	8,041	7,591	4,788	398
Ecuador—						
Bars, sheets, etc. ..	108	180	9	63	157	96
Aluminium sulphates ..	451	575	979	596	672	809
Peru—						
Ingots and scrap (<i>a</i>) ..	54	74	86	178	152	206
Bars, sheets and wire (<i>a</i>)	651	887	933	910	796	937
Aluminium sulphates ..	2,495	2,505	2,068	2,086	4,182	3,016
Uruguay—						
Ingots, sheets, etc. ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	806	1,342	1,425
Aluminium sulphates ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	4,661	2,943	3,202
Venezuela—						
Crude	224	33	78	41	433	<i>n.a.</i>
Aluminium sulphates ..	989	<i>r</i> 2,681	1,990	3,905	3,598	<i>n.a.</i>
Formosa—						
Bauxite	44,681	25,415	36,146	41,277	40,636	32,051
Foil	236	264	175	168	3	2
Indonesia—						
Bars and sheets	775	2,371	921	1,716	1,711	1,777
Aluminium sulphates ..	2,663	9,947	5,089	2,454	7,199	5,271
Iran (<i>b</i>)—						
Ingots, sheets, scrap, etc.	745	<i>n.a.</i>	754	1,027	1,531	<i>n.a.</i>
Aluminium sulphates ..	119	<i>n.a.</i>	54	54	<i>n.a.</i>	<i>n.a.</i>
Iraq—						
Bars, sheets, wire, etc. .	941	1,408	1,250	1,076	1,454	<i>n.a.</i>
Aluminium sulphates ..	1,026	1,477	3,882	963	1,473	<i>n.a.</i>
Israel—						
Ingots, bars, sheets, etc.	904	1,786	2,320	1,338	2,585	2,611
Foil	137	127	180	218	95	10
Aluminium sulphates ..	—	44	468	617	617	571
Japan—						
Bauxite	289,516	337,890	397,528	484,951	509,054	816,669
Cryolite	901	21	1,162	1,703	492	1,578
Ingots, blocks, etc. ..	1,354	2	2,484	8,994	400	14,589
Scrap	3,285	810	3,938	6,967	3,404	9,784
Lebanon—						
Ingots, etc.	474	851	629	359	182	220
Philippine Republic—						
Bars, sheets, wire (<i>a</i>) ..	<i>n.a.</i>	<i>n.a.</i>	2,312	2,118	1,751	1,915
Foil	470	<i>n.a.</i>	495	338	141	151
Aluminium sulphates ..	3,148	763	2,468	4,142	4,112	5,919
Syria—						
Ingots, etc.	305	183	92	127	243	79
Thailand—						
Ingots (<i>a</i>)	372	318	268	277	78	219
Bars, sheets, tubes and wire (<i>a</i>)	1,248	1,328	1,386	1,758	1,453	1,942
Foil			228	274	285	145
Aluminium sulphates ..	<i>n.a.</i>	1,058	1,489	1,705	1,280	1,073
Turkey—						
Crude (<i>a</i>)	95	15	67	183	175	679
Bars, sheets and wire (<i>a</i>)	<i>r</i> 1,629	<i>r</i> 1,133	381	178	198	828
Aluminium sulphates ..	2,117	2,609	2,850	1,899	1,396	2,484

(a) Including alloys.*(b)* Years ended March 20 of the year following that stated.

ANTIMONY
PRODUCTION OF ANTIMONY ORE
(Metal content)

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Southern Rhodesia ..	67	211	65	79	143	99
Union of South Africa ..	8,522	13,964	r 13,884	r 9,840	7,122	12,087
Canada (a)	—	—	—	—	—	—
Australia (b)	117	307	287	485	692	627
OTHER COUNTRIES						
Austria	383	440	437	508	616	762
Czechoslovakia (f) ..	1,600	1,600	1,600	1,600	1,600	1,600
France	—	92	230	—	37	—
Italy	291	359	280	116	169	207
Portugal	9	—	—	10	6	6
Spain	106	205	230	200	200	157
Yugoslavia (c)	1,527	1,580	r 1,637	1,741	1,639	2,245
Algeria	2,260	969	2,116	1,381	987	1,014
Morocco	668	657	280	385	217	271
Guatemala	—	—	—	13	(e) 42	(e) 87
Mexico	4,116	3,757	4,484	5,120	2,704	3,234
United States (d) ..	684	565	562	633	629	605
Argentina	n.a.	6	2	7	10	—
Bolivia (g)	5,136	5,273	5,026	6,249	5,159	5,415
Peru	832	857	954	821	861	805
Burma	—	3	2	18	7	152
China (f)	11,000	12,000	12,800	13,700	14,700	14,700
Japan	261	319	553	424	266	348
Thailand	69	24	37	2	—	10
Turkey	r 964	r 1,644	949	1,100	(g) 1,506	(g) 1,232
TOTAL*	39,000	r 45,000	r 46,000	44,000	39,000	46,000

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

(a) The following figures represent the antimony content of antimonial lead and of flue dust and slags (long tons): 1954—581; 1955—903; 1956—956; 1957—607; 1958—383; 1959—721.

(b) In addition the antimony content of antimonial slag obtained as a by-product of lead refining was as follows (long tons): 1954—614; 1955—615; 1956—616; 1957—724; 1958—664; 1959—652.

(c) Metal.

(d) Secondary metal was recovered as follows (long tons): 1954—19,962; 1955—21,162; 1956—21,523; 1957—20,147; 1958—17,424; 1959—17,896.

(e) Imports into the United States.

(f) United States Bureau of Mines' estimate.

(g) Exports.

EXPORTS OF ANTIMONY, ETC.

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Regulus and refined ..	1,591	1,433	1,839	1,968	824	719
Rhodesia & Nyasaland—						
Ore	536	135	237	211	137	204
Union of South Africa—						
Ore	14,588	20,236	20,377	12,381	14,519	19,447
Canada—						
Antimonial lead (Sb content)	311	703	471	301	281	740
Hong Kong—						
Ore	1	7	126	176	751	n.a.
Sarawak—						
Ore	—	—	10	—	—	—
Australia (a)—						
Ore and concentrates ..	52	n.a.	n.a.	n.a.	n.a.	n.a.
Regulus	10	13	1	5	133	—
OTHER COUNTRIES						
Austria—						
Ore	602	562	629	810	937	878
Belgium-Luxemburg E.U.—						
Oxide	872	579	417	700	751	707
France						
Ore	1	1	—	5	—	394
Crude and regulus ..	298	386	256	127	160	115
Oxide	14	22	n.a.	n.a.	n.a.	n.a.
Germany (Federal)—						
Ore	—	6	—	—	—	1
Regulus, scrap, etc. ..	67	113	164	154	149	229
Oxide	156	300	317	386	272	368
Italy—						
Regulus and scrap ..	—	—	—	133	65	—
Netherlands—						
Regulus	7	79	11	58	15	40
Portugal—						
Ore	—	38	—	20	—	—
Sweden—						
Ore	48	60	96	52	53	n.a.
Regulus	14	7	14	3	14	5
U.S.S.R.—						
Regulus	n.a.	1,600	1,800	1,600	1,100	2,300
Yugoslavia—						
Regulus	1,182	1,297	1,384	1,344	1,574	1,896
Algeria—						
Ore	5,019	6,349	4,512	4,890	5,468	5,272
Morocco—						
Ore	1,871	1,557	906	844	—	734
Mexico—						
Ore	7,529	7,311	10,787	12,675	5,625	6,441
Concentrates	—	—	—	46	—	—
Regulus and refined ..	927	878	706	469	313	586
United States—						
Ore	—	7	28	57	42	147
Metal and alloys	39	182	30	3	35	8
Compounds	292	169	188	189	n.a.	n.a.
Bolivia—						
Ore (Sb content)	5,136	5,273	5,026	6,249	5,159	5,412
Regulus	n.a.	1	5	24	35	3
Peru—						
Ore and metal (Sb content)	1,246	815	1,122	745	571	734

(a) Years ended June 30 of that stated.

EXPORTS OF ANTIMONY, ETC. (cont.)

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
Japan—						
Regulus	3	3	18	9	3	2
Sulphide	<i>n.a.</i>	<i>n.a.</i>	118	64	18	18
Thailand—						
Ore	122	94	56	32	—	—
Turkey—						
Ore	1,919	1,168	1,875	2,834	2,509	2,056
Regulus	—	147	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

IMPORTS OF ANTIMONY, ETC.

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore and concentrates (b)	15,029	16,150	15,018	11,237	11,274	11,063
Rhodesia & Nyasaland—						
Refined and regulus ..	30	76	105	98	27	47
Union of South Africa—						
Refined and regulus ..	159	313	213	325	152	n.a.
Canada—						
Regulus	912	607	805	801	361	523
Oxide	125	128	117	163	144	228
Hong Kong—						
Ore	—	1	2	106	897	—
India—						
Ore	n.a.	n.a.	n.a.	342	935	1,579
Metal	n.a.	n.a.	n.a.	21	34	81
Oxide	n.a.	n.a.	n.a.	100	43	73
Sulphide	n.a.	n.a.	n.a.	353	3	10
Australia (c)						
Concentrates	656	1,355	532	530	103	36
Crude and regulus ..	19	n.a.	n.a.	n.a.	n.a.	n.a.
New Zealand—						
Refined and regulus ..	82	r 128	r 94	96	172	90
Oxide	122	141	r 112	r(a) 14	35	28
OTHER COUNTRIES						
Austria—						
Regulus	99	86	145	103	153	141
Belgium-Luxemburg						
E.U.—						
Regulus	18	41	144	107	146	187
Oxide	70	72	74	80	89	124
Denmark—						
Regulus	131	252	307	274	324	400
France—						
Ore	7,858	6,348	6,645	5,053	8,752	5,490
Crude and regulus ..	15	—	513	111	1	156
Oxide and sulphide ..	33	18	(d) 4	(d) 2	(d) 2	(d) 1
Germany (Federal)—						
Ore	1,799	2,020	1,125	1,419	1,305	2,142
Regulus, scrap, etc.	1,246	2,104	2,230	2,407	1,938	2,976
Oxide	136	99	106	124	159	218
Italy—						
Ore	37	—	—	102	352	156
Regulus and scrap ..	348	322	288	173	248	250
Oxide	269	349	245	191	192	122
Sulphide	12	13	12	14	15	n.a.
Netherlands—						
Regulus	438	354	403	218	236	393
Oxide	475	530	519	503	461	592
Norway—						
Regulus	76	131	157	86	49	72
Portugal—						
Crude and alloys ..	28	31	43	47	55	57
Oxide	4	3	2	4	1	9
Sulphide	1	1	3	1	—	1
Spain—						
Sulphide	2	—	5	—	—	—

(a) Excess of re-exports.

(b) Including crude.

(c) Years ended June 30 of that stated.

(d) Sulphide only.

IMPORTS OF ANTIMONY, ETC. (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
Sweden—						
Ore	92	108	223	113	31	<i>n.a.</i>
Regulus	251	298	338	119	224	258
Switzerland—						
Regulus	143	226	199	145	342	132
U.S.S.R.—						
Regulus	<i>n.a.</i>	6,900	6,900	100	3,400	—
Algeria—						
Regulus	8	19	13	13	11	12
Morocco—						
Regulus	31	21	21	16	20	15
Mexico—						
Oxide and sulphide	6	20	(a) 15	(a) 23	(a) 19	28
United States—						
Ore (<i>Sb content</i>)	4,216	6,709	5,867	7,320	3,060	5,773
Crude	29	41	41	34	122	158
Regulus	2,502	3,274	3,858	4,832	3,823	3,948
Oxide	1,318	1,973	1,321	1,691	1,459	1,835
Argentina—						
Ore	582	561	530	669	1,369	652
Brazil—						
Regulus	528	355	265	295	167	227
Oxide	51	22	42	46	27	39
Sulphide	165	127	187	124	92	116
Chile—						
Regulus	21	82	95	51	<i>n.a.</i>	<i>n.a.</i>
Peru—						
Sulphides	2	4	—	1	—	—
Uruguay—						
Regulus	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	39	13	32
Venezuela—						
Regulus	13	1	28	7	17	<i>n.a.</i>
Indonesia—						
Regulus	25	205	57	84	79	156
Israel—						
Regulus	30	29	31	56	42	25
Japan—						
Ore and concentrates	2,331	1,849	3,855	3,064	2,278	4,934
Regulus	15	2	3	1	6	83
Sulphide	<i>n.a.</i>	<i>n.a.</i>	538	4	181	—
Philippine Republic—						
Regulus	22	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

(a) Oxide only.

ARSENIC
PRODUCTION OF ARSENIC

Long tons

Producing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Southern Rhodesia—						
White arsenic	409	454	968	788	610	471
Canada—						
White arsenic (a) ..	527	702	799	1,651	1,037	704
OTHER COUNTRIES						
Belgium (b)—						
White arsenic	1,767	2,036	2,728	2,035	485	2,823
France—						
White arsenic	725	5,687	8,442	6,810	7,459	8,000
Germany (Federal) (b)—						
White arsenic, etc. ..	214	567	298	193	183	161
Greece—						
White arsenic	—	—	40	10	—	n.a.
Italy—						
Mispickel (<i>As content</i>) ..	438	761	484	743	499	411
White arsenic	1,199	1,193	1,047	970	657	1,201
Portugal—						
Arsenic oxide (d)	1,457	1,680	1,339	1,336	969	599
Spain—						
Arsenic oxide (e)	398	100	260	230	189	286
Sweden—						
White arsenic	8,548	11,387	9,975	9,940	9,119	11,000
Mexico—						
Ores (<i>As₂O₃ content</i>) ..	2,388	2,907	2,601	4,532	3,047	10,300
United States—						
White arsenic	11,756	9,625	10,894	9,369	10,275	4,633
Brazil—						
White arsenic	1,137	962	732	r 168	261	(c) 270
Peru—						
White arsenic	93	—	25	19	329	(c) 295
Japan—						
White arsenic	1,414	1,706	1,637	1,358	1,276	1,058

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

(e) Content of ore.

EXPORTS OF ARSENIC, ETC.

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
White arsenic and other compounds of arsenic	1,491	3,372	4,388	3,727	3,123	2,546
Canada—						
White arsenic, etc. (a)	635	420	521	1,442	760	505
Australia (b)—						
Other compounds	59	—	—	—	—	—
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Sulphide	73	117	120	72	128	49
White arsenic	1,767	2,036	2,728	2,035	485	2,823
Arsenates	115	104	279	146	7	33
France—						
White arsenic	3,005	5,898	4,417	4,210	5,660	8,444
Arsenate of lead	3	3	143	162	115	71
Other arsenates	380	145				
Germany (Federal)—						
White arsenic, etc.	214	567	298	193	183	161
Arsenates	800	619	794	346	376	782
Italy—						
White arsenic	422	111	27	5	9	3
Netherlands—						
Arsenates	68	218	41	65	—	15
Portugal—						
White arsenic	1,077	1,684	1,482	1,173	1,046	383
Sweden—						
White arsenic	7,997	8,367	7,322	8,683	14,939	11,417
Mexico—						
White arsenic, pure	3,318	4,898	5,221	3,056	1,689	5,346
do. crude	164	1,447	380	1,856	793	6,338
United States—						
Arsenate of lead	317	482	1,144	543	937	625
Arsenate of lime	882	842	280	1,241	569	55
Turkey—						
Ore	5	2	—	—	—	3

(a) Including arsenic contained in gold ores exported.

(b) Years ended June 30 of that stated.

IMPORTS OF ARSENIC, ETC.

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
White arsenic	4,869	6,082	5,550	3,293	6,873	4,602
Canada—						
Sulphide and white arsenic	—	—	7	1	—	—
Arsenate of lead	44	58	60	33	58	38
Arsenate of lime	73	252	5	36	38	39
India—						
Arsenic and its oxides	247	468	437	483	90	297
Pakistan—						
Arsenic and its oxides	(b) 76	(b) 14	1	5	14	5
Australia (a)—						
White arsenic	2,245	3,167	3,273	1,778	1,877	2,595
Arsenate of lead	17	9	8	4	1	—
Other compounds	27	11	10	—	—	—
New Zealand—						
White arsenic, etc.	177	211	r 131	128	165	71
Arsenate of lead	29	41	41	25	30	24
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
White arsenic	86	52	99	252	273	108
Denmark—						
Arsenate of lead	28	8	1	1	1	n.a.
France—						
Sulphide	12	5	—	—	3	8
Metallic arsenic	13	21	24	20	17	9
White arsenic	77	72	48	12	16	8
Arsenate of lead	4	—	n.a.	n.a.	n.a.	n.a.
Germany (Federal)—						
White arsenic	1,697	2,510	2,183	1,830	2,645	3,358
Sulphide	29	21	25	15	19	10
Italy—						
White arsenic	625	357	516	253	288	211
Metallic arsenic	—	3	1	—	2	6
Netherlands—						
White arsenic	486	366	435	668	677	543
Arsenates	56	56	31	55	28	23
Portugal—						
Metallic arsenic	1	1	—	1	1	1
White arsenic	2	7	13	4	16	12
Arsenate of soda	—	—	—	—	3	5
Algeria—						
White arsenic	14	15	13	10	3	22
Sulphide	8	—	—	—	1	1
Arsenates	15	32	44	30	41	17
Belgian Congo—						
White arsenic	25	1	—	2	—	—
Arsenates and arsenites	5	42	70	154	142	139
Malagasy Republic—						
Arsenates	7	7	5	8	12	9
Tunisia—						
Arsenates	—	1	—	1	—	1
Mexico—						
White arsenic	n.a.	n.a.	46	101	48	95

(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	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
United States—						
Metallic arsenic	52	102	40	61	28	38
White arsenic	4,328	6,448	5,734	9,049	8,504	17,309
Sulphide	—	42	38	19	56	15
Arsenates of lime and soda	96	(a) 77	129	(a) 146	(a) 77	(a) 68
Argentina—						
Sulphide	6	—	—	—	—	—
White arsenic	962	813	514	1,422	894	768
Brazil—						
White arsenic	950	1,971	969	778	730	701
Chile—						
White arsenic	20	76	22	21	<i>n.a.</i>	<i>n.a.</i>
Arsenates	108	104	41	40	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
White arsenic	4	34	16	39	5	44
Uruguay—						
White arsenic	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	46	172	299
Arsenate of lead	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	174	8	9
Japan—						
Sulphide	37	30	16	19	21	38
Turkey—						
Arsenic compounds	31	11	21	27	—	32

(a) Arsenate of soda only.

ASBESTOS

PRODUCTION OF ASBESTOS

Long tons

Producing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Bechuanaland Protectorate	902	1,274	1,210	1,412	2,022	1,259
Kenya—						
Anthophyllite	200	136	152	97	107	39
Nyasaland	—	5	—	—	—	—
Southern Rhodesia	71,395	93,983	106,226	117,968	113,496	106,874
Swaziland	26,913	29,119	26,674	27,435	22,554	22,149
Uganda	6	2	2	—	—	—
Union of South Africa—						
Amosite	41,002	44,930	44,729	r 50,713	62,297	64,036
Blue	39,059	43,609	r 54,632	r 66,831	69,812	72,444
Chrysotile	17,297	18,335	21,729	22,898	24,467	26,184
Anthophyllite	98	165	—	—	—	—
Tremolite	—	—	—	159	248	198
Canada (a)—						
Chrysotile	825,103	949,822	905,579	934,005	826,188	937,883
<i>Crude</i>	647	646	640	555	540	386
<i>Fibre</i>	291,654	352,764	350,878	360,729	305,859	360,731
<i>Shorts and waste</i>	532,802	596,412	554,061	572,721	519,789	576,766
Cyprus	13,669	13,666	13,728	13,418	14,727	12,878
India	389	1,397	1,230	1,706	1,162	1,344
Australia—						
Chrysotile	919	865	r 1,383	r 1,993	2,013	1,263
Crocidolite	3,794	4,487	7,286	r 11,105	11,887	14,679
New Zealand	—	154	329	206	405	572
Total	1,041,000	1,202,000	r 1,185,000	1,250,000	1,151,000	1,262,000
OTHER COUNTRIES						
Bulgaria	1,083	1,181	984	(c) 1,000	(c) 1,000	(c) 1,000
Finland	7,011	8,002	8,378	9,803	n.a.	n.a.
France	10,500	12,000	12,000	14,000	18,333	20,619
Greece	2	3	r 5	r 8	—	—
Italy	23,039	31,247	34,757	35,812	35,381	44,280
Portugal	27	50	31	57	88	35
Spain	158	—	—	—	—	17
U.S.S.R. (c)	335,000	400,000	r 450,000	r 450,000	490,000	540,000
Yugoslavia	3,212	3,844	3,718	5,471	5,232	4,239
Egypt	—	—	—	20	433	n.a.
Eritrea	49	—	—	49	25	(c) 27
Morocco	533	563	339	118	—	—
Mozambique	175	269	180	136	177	66
United States (d)	42,519	38,007	36,886	38,976	39,267	40,469
Argentina	n.a.	180	44	284	254	(c) 245
Bolivia (b)	30	—	56	109	—	148
Brazil	2,515	2,789	3,338	2,370	3,407	3,342
Venezuela	663	1,569	5,197	7,490	8,173	4,547
China (c)	13,000	21,000	23,000	29,000	59,000	79,000
Formosa	146	361	105	239	42	134
Iran (e)	—	98	(c) 150	(c) 150	(c) 150	(c) 150
Japan—						
Chrysotile	6,124	6,190	8,601	11,173	9,989	12,173
Amphibole	51	—	251	606	—	—
Korea (South)	208	59	50	86	20	79
Philippine Republic	—	—	—	—	—	50
Turkey	44	231	566	89	749	367
Total*	450,000	500,000	r 600,000	600,000	700,000	800,000
WORLD'S TOTAL* ..	1,490,000	1,700,000	r 1,800,000	1,800,000	1,800,000	2,000,000

*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	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Unmanufactured—						
Fibre	3,891	3,785	} 6,442	5,959	5,199	6,178
Waste, incl. asbestic	919	968				
Packing, etc. .. .	12,103	14,162	13,532	13,760	13,436	11,522
Cement products .. .	109,809	127,050	131,053	105,947	69,858	63,386
Yarn and cloth .. .	2,676	2,889	2,921	2,833	2,708	2,564
Other manufactures .. .	9,625	12,499	13,780	13,044	12,574	12,767
Kenya—						
Crude	54	42	42	5	65	9
Rhodesia & Nyasaland—						
Unmanufactured .. .	72,475	82,569	96,287	95,953	84,804	92,199
Cement sheets .. .	(£63,710)	(£56,533)	(£3,185)	(£828)	(£1,875)	(£1,392)
Other manufactures .. .	(£12,715)	(£5,464)	(£11,256)	(£1,161)	(£3,000)	(£631)
Union of South Africa—						
Unmanufactured (a) .. .	113,773	122,184	130,987	148,660	142,519	150,456
Sheets .. (£ S.A.)	(£104,835)	(£100,733)	(£31,279)	(£32,055)	(£37,972)	(£36,254)
Other manufactures .. .	(£253,321)	(£306,624)	(£250,965)	(£87,704)	(£48,501)	(£101,950)
Canada—						
Crude	572	523	500	570	431	371
Fibre	279,325	326,768	336,646	351,171	284,179	358,556
Shorts and waste .. .	512,717	567,197	523,497	568,403	489,167	546,360
Manufactured .. .	(£477,060)	(£1,055,370)	(£1,361,174)	(£701,529)	(£284,603)	(£263,977)
Cyprus—						
Unmanufactured .. .	18,163	12,843	12,504	11,886	13,118	14,403
India—						
Crude	70	546	116	71	139	32
Manufactured (by sea)	(£67,922)	(£59,268)	(£51,367)	} 558	50	159
do. (by land) .. .	569	2,001	326			
Malaya—						
Sheets	n.a.	n.a.	n.a.	7,205	5,548	2,841
Pipes	n.a.	n.a.	n.a.	2,213	2,693	2,990
Other manufactures .. .	36	22	32	30	108	69
Hong Kong—						
Unmanufactured .. .	—	—	1	5	550	—
Manufactured .. .	(£44,543)	(£33,840)	(£33,506)	(£37,879)	(£13,711)	60
Australia (b)—						
Crude and fibre .. .	2,298	3,287	6,859	11,644	10,002	7,694
Packing	(£17,042)	(£8,266)	(£8,127)	(£31,498)	(£7,941)	(£111,546)
New Zealand—						
Cement products .. .	(£N.Z.) (£3,383)	(£4,834)	(£7,029)	(£6,560)	(£3,635)	(£4,314)
OTHER COUNTRIES						
Austria—						
Unmanufactured .. .	5	6	—	—	3	28
Manufactured .. .	146	116	88	137	490	(d) 1,187
Cement products .. .	1,287	1,627	8,240	7,360	5,332	(c) 4,735
Belgium-Luxemburg						
E.U.—						
Unmanufactured .. .	140	300	112	252	778	617
Manufactured .. .	890	1,025	891	776	609	612
Cement products .. .	92,856	115,742	149,389	122,594	113,603	161,556

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

(b) Years ended June 30 of that stated.

(c) Including manufactures of other fibro-cements.

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

EXPORTS OF ASBESTOS (cont.)

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
Denmark—						
Unmanufactured ..	50	55	128	160	103	62
Manufactured ..	146	210	259	242	272	387
Cement products ..	987	3,479	1,425	4,963	6,555	4,389
Finland—						
Unmanufactured ..	3,878	4,467	4,923	6,992	5,985	5,273
Manufactured ..	862	735	442	391	342	443
France—						
Unmanufactured ..	4,926	2,592	1,917	3,630	3,005	6,169
Manufactured (a) ..	1,488	1,335	999	1,147	1,552	2,481
Cement products (b) ..	22,468	26,275	24,572	30,180	43,336	42,735
Germany (Federal)—						
Unmanufactured ..	440	172	224	271	108	218
Manufactured (a) ..	2,322	2,216	2,584	2,662	2,459	3,132
Cement products (b) ..	6,972	13,888	14,327	16,642	12,625	15,372
Italy—						
Unmanufactured ..	2,289	4,563	5,974	4,726	6,144	9,436
Manufactured (a) ..	260	243	346	356	439	658
Cement products (b) ..	11,468	15,271	32,379	34,407	25,810	33,257
Netherlands—						
Unmanufactured ..	22	49	66	25	16	34
Manufactured ..	542	733	1,032	1,095	1,193	1,535
Cement products ..	3,100	3,680	6,079	4,189	4,651	4,695
Portugal—						
Unmanufactured ..	30	16	6	31	40	56
Spain—						
Manufactured ..	62	92	149	101	120	116
Sweden—						
Unmanufactured ..	1	1	4	1	4	2
Manufactured ..	29	34	17	55	57	(a) 61
U.S.S.R.—						
Unmanufactured ..	n.a.	66,000	88,100	101,800	115,600	126,600
Yugoslavia—						
Unmanufactured ..	107	1,975	3,679	4,536	5,016	6,030
Algeria—						
Cement products (b) ..	8,200	9,106	4,711	3,381	2,191	2,705
Egypt—						
Unmanufactured ..	141	109	60	—	22	4
Morocco—						
Unmanufactured ..	34	5	18	49	32	—
Cement products ..	5,078	3,739	5,907	4,230	5,168	5,888
Mozambique—						
Unmanufactured ..	91	268	58	369	322	66
United States—						
Unmanufactured ..	1,649	1,929	2,498	2,477	2,622	3,855
Spun, woven and packing ..	1,238	1,080	1,076	1,293	1,041	1,039
Brake linings ..	(£1,644,276)	(£1,790,435)	(£1,921,625)	(£1,834,241)	(£1,641,444)	(£1,663,341)
Clutch facings ..	(£312,972)	(£332,472)	(£325,293)	(£374,277)	(£388,483)	(£405,393)
Pipe covering and cement ..	1,869	2,714	2,020	3,145	2,727	2,156
Other manufactures ..	13,443	14,638	17,033	15,615	12,465	9,849
Bolivia—						
Unmanufactured ..	30	—	56	109	—	149
Colombia—						
Cement products ..	1,562	2,591	1,664	882	177	168
Peru—						
Manufactured ..	1	—	71	12	22	—
Venezuela—						
Unmanufactured ..	301	799	4,224	5,995	6,826	n.a.

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

(b) Including manufactures of other fibro-cements.

EXPORTS OF ASBESTOS (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
Japan—						
Unmanufactured ..	19	23	24	30	16	53
Manufactured ..	338	1,015	525	632	579	898
Cement products ..	1,306	1,866	1,124	1,061	529	896
Lebanon—						
Cement products ..	<i>n.a.</i>	1,884	3,000	3,754	6,324	9,997
Turkey—						
Unmanufactured ..	—	104	—	5	5	—

IMPORTS OF ASBESTOS

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Unmanufactured—						
Crude and fibre ..	110,040	121,886	124,505	112,341	109,765	121,531
Waste, including asbestic ..	13,802	22,490	21,635	24,638	21,566	11,887
Cement products ..	5,795	8,405	8,350	8,640	8,595	9,545
Other manufactures ..	94	141	234	863	1,028	932
Channel Islands—						
Manufactured ..	892	999	1,292	798	1,109	953
Malta—						
Manufactured ..	(£5,202)	(£4,695)	(£3,506)	(£4,941)	(£5,806)	(£6,966)
Gambia—						
Cement sheets and pipes	111	335	317	482	727	321
Ghana—						
Cement sheets, pipes etc.	18,360	21,347	18,888	14,240	11,958	18,814
Kenya—						
Manufactured ..	2,228	4,400	5,418	5,103	3,130	4,461
Mauritius—						
Sheet and millboard ..	66	56	264	326	108	224
Other manufactures ..	36	(£59,418)	600	305	613	1,046
Nigeria—						
Cement sheets, pipes etc.	10,762	23,332	18,702	20,373	18,274	24,226
Rhodesia & Nyasaland—						
Cement sheets, etc. ..	(£105,141)	(£99,462)	(£87,864)	(£56,803)	(£44,793)	(£33,624)
Cement pipes ..	4,571	5,816	6,713	2,159	417	1,375
Sierra Leone—						
Cement sheets and pipes	1,159	879	728	1,507	309	426
South West Africa—						
Packing .. (£S.A.)	(£6,178)	(b)	(b)	(b)	(b)	(b)
Cement products (£S.A.)	(£15,123)	(b)	(b)	(b)	(b)	(b)
Other manufactures (£S.A.)	(£32,043)	(b)	(b)	(b)	(b)	(b)
Tanganyika—						
Manufactured ..	391	1,610	2,600	1,526	1,226	698
Uganda—						
Unmanufactured ..	—	195	457	187	639	397
Manufactured ..	651	3,240	3,902	1,296	1,366	1,346
Union of South Africa—						
Packing .. (£S.A.)	(£219,962)	a(£264,499)	a(£266,691)	ar(£301,056)	a(£291,185)	n.a.
Cement products (£S.A.)	(£7,360)	(a)(£10,455)	(a)(£13,133)	(a)(£5,730)	(a)(£3,179)	n.a.
Other manufactures ..	(£5,689)	(a)(£20,055)	(a)(£59,007)	ar(£43,076)	(a)(£80,468)	n.a.
Zanzibar—						
Manufactured ..	225	246	404	397	205	257
Canada—						
Packing ..	122	117	180	165	135	172
Other manufactures ..	(£1,180,653)	(£1,371,384)	(£1,827,761)	(£1,799,192)	(£1,441,942)	(£1,397,962)
British West Indies—						
Barbados—						
Cement sheets ..	(£13,065)	(£29,149)	(£29,508)	143	604	984
Bermuda—						
Sheets, etc. ..	(£6,720)	(£11,643)	(£7,818)	(£9,550)	(£6,221)	(£14,757)
Grenada—						
Manufactured ..	(£152)	(£1,835)	(£584)	(£415)	(£440)	n.a.
Jamaica—						
Unmanufactured ..	11	49	24	45	24	38
Manufactured ..	r 192	r 419	r 521	r 751	473	424
Cement products ..	1,518	609	809	996	383	548
St. Vincent—						
Sheets ..	23	2	4	22	1	12

(a) Including South West Africa.

(b) Included with Union of South Africa.

IMPORTS OF ASBESTOS (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES (cont.)						
British West Indies (cont.)						
Trinidad and Tobago—						
Cement products ..	1,636	1,206	523	1,103	485	608
Other manufactures ..	349	251	370	442	417	1,084
British Guiana—						
Cement sheets, etc. ..	157	358	785	872	636	2,409
Other manufactures ..	269	969	1,102	187	727	73
Aden—						
Manufactured ..	—	606	1,514	1,601	1,432	1,135
Ceylon—						
Unmanufactured ..	n.a.	—	214	418	974	789
Cement sheets, etc. ..	9,276	11,123	16,424	117,45	7,375	6,605
Other manufactures ..	318	52	46	34	49	33
Cyprus—						
Sheets and pipes ..	3,643	817	1,740	2,632	1,537	2,044
Other manufactures ..	r(£10,937)	r(£12,205)	r(£9,803)	r(£17,019)	(£14,665)	(£28,769)
Hong Kong—						
Unmanufactured ..	—	5	1	51	562	5
Manufactured ..	(£25,670)	(£34,450)	(£59,335)	(£121,179)	(£79,396)	234
India—						
Unmanufactured ..	8,263	12,771	15,391	16,032	18,065	22,387
Cement products ..	1,122	2,474	7,049	8,034	2,622	2,703
Packing ..	(£108,224)	(£162,046)	(£97,325)	} 1,953	842	2,874
Other manufactures ..	(£279,242)	(£253,366)	(£431,442)			
Malaya—						
Unmanufactured ..	2,719	1,885	2,321	2,763	1,903	2,240
Sheets ..	n.a.	n.a.	n.a.	18,099	19,200	19,601
Pipes ..	n.a.	n.a.	n.a.	795	136	738
Other manufactures ..	265	391	424	431	460	366
North Borneo—						
Cement products ..	929	1,222	1,513	3,153	1,713	1,837
Other manufactures ..	n.a.	117	6	4	56	5
Pakistan—						
Cement sheets ..	(b) 4,844	(b) 3,854	2,320	1,434	493	499
Sarawak—						
Cement sheets ..	180	609	1,674	947	652	505
Other manufactures ..	16	8	—	14	11	46
Australia (a)—						
Crude ..	26,406	42,677	32,219	23,235	32,595	35,767
Packing, etc. ..	(£345,493)	(£404,482)	(£347,342)	(£388,630)	(£581,006)	(£449,316)
New Zealand—						
Unmanufactured ..	3,460	r 4,103	r 2,786	r 1,276	3,915	4,148
Manufactured (£N.Z.)	(£155,224)	(£205,351)	(£177,281)	(£189,805)	(£270,337)	(£201,518)
Cement products (£N.Z.)	(£150,141)	(£138,311)	(£194,752)	(£355,381)	(£209,254)	(£63,364)
Irish Republic—						
Unmanufactured ..	2,301	1,564	2,607	1,424	1,593	2,047
Manufactured ..	2,615	5,221	2,899	1,700	2,653	2,652
OTHER COUNTRIES						
Austria—						
Unmanufactured ..	6,653	12,281	7,783	10,248	10,994	10,185
Manufactured ..	157	202	132	180	205	(c) 246
Cement products ..	6	29	82	372	264	(d) 105
Belgium-Luxemburg						
E.U.—						
Unmanufactured ..	30,173	40,576	43,607	38,800	32,162	45,593
Manufactured ..	1,763	1,761	2,130	2,247	3,720	3,450
Cement products ..	375	1,834	3,716	808	796	996

(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	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
Denmark—						
Unmanufactured ..	9,933	9,421	12,837	16,501	10,409	16,564
Manufactured ..	847	892	1,125	983	958	1,434
Cement products ..	178	250	193	254	146	7,593
Finland—						
Unmanufactured ..	1,261	1,386	1,948	2,536	3,158	2,556
Manufactured ..	532	553	358	300	375	376
France—						
Unmanufactured ..	37,746	50,551	55,260	66,497	66,366	60,579
Manufactured (a) ..	463	958	1,554	1,413	1,406	2,362
Cement products (b) ..	335	867	356	1,386	752	753
Germany (Federal)—						
Unmanufactured ..	37,671	63,327	74,749	91,862	79,884	100,630
Manufactured (a) ..	529	709	1,019	1,587	2,187	2,286
Cement products (b) ..	2,478	3,903	10,798	22,322	39,887	47,259
Greece	158	234	r 418	r 193	178	163
Hungary—						
Crude	5,439	4,914	4,739	4,482	7,292	n.a.
Iceland—						
Unmanufactured ..	8	51	56	59	55	38
Manufactured ..	32	35	43	28	31	58
Italy—						
Unmanufactured ..	11,609	13,610	20,318	30,168	19,357	13,906
Manufactured (a) ..	1,088	1,354	1,697	1,823	1,996	2,469
Cement products (b) ..	211	89	380	334	290	300
Netherlands—						
Unmanufactured ..	8,818	11,278	15,694	20,783	12,478	17,433
Manufactured ..	2,558	2,803	2,524	2,578	2,378	2,453
Cement products ..	40,335	49,051	69,287	53,139	45,704	62,715
Norway—						
Unmanufactured ..	3,170	3,189	3,672	4,672	4,327	5,422
Manufactured ..	1,064	1,139	1,371	987	1,024	(a) 2,567
Cement products ..	1,761	2,542	2,686	7,815	8,506	(b) 5,929
Portugal—						
Unmanufactured ..	1,898	2,960	2,910	3,275	1,603	1,743
Manufactured ..	64	63	56	136	79	62
Spain—						
Unmanufactured ..	7,511	4,705	12,090	17,562	10,284	16,367
Manufactured ..	141	245	610	560	83	102
Sweden—						
Unmanufactured ..	14,180	12,728	11,390	14,484	13,122	16,179
Manufactured ..	1,859	2,107	2,169	2,102	2,250	(a) 3,500
Yugoslavia—						
Unmanufactured ..	2,136	3,132	1,344	3,819	4,619	4,407
Manufactured ..	232	309	252	323	384	647
Cement products ..	3	27	21	220	117	—
Algeria—						
Unmanufactured ..	2,776	3,986	3,026	4,396	2,554	3,757
Manufactured (a) ..	350	278	190	178	306	362
Cement products (b) ..	2,026	1,816	2,206	6,583	13,864	14,261
Angola—						
Unmanufactured ..	664	608	872	1,242	724	479
Manufactured ..	44	9	10	14	20	15
Belgian Congo—						
Unmanufactured ..	1,950	2,128	1,196	2,855	1,938	1,028
Manufactured (a) ..	146	168	346	185	126	112
Cement products (b) ..	15,924	13,858	6,839	3,347	2,061	914
Egypt—						
Unmanufactured ..	1,754	2,515	7,226	3,598	4,523	3,527
Manufactured ..	373	441	1,203	494	762	999

(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	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
(cont.)						
Malagasy Republic—						
Manufactured (a) ..	79	99	97	<i>n.a.</i>	81	125
Cement products ..	2,053	2,150	1,387	<i>n.a.</i>	2,707	943
Morocco—						
Unmanufactured ..	810	1,062	973	1,056	1,670	1,016
Manufactured (a) ..	151	112	123	65	131	141
Cement products ..	2,886	4,307	1,319	560	255	203
Mozambique—						
Unmanufactured ..	468	715	1,282	805	1,264	446
Manufactured ..	11	14	21	28	22	17
Sudan—						
Manufactured ..	8,740	2,022	4,626	<i>r</i> 5,037	3,044	2,327
Costa Rica—						
Manufactured ..	453	224	52	38	41	83
Guatemala—						
Unmanufactured ..	244	284	289	449	498	<i>n.a.</i>
Manufactured ..	283	67	204	105	79	<i>n.a.</i>
Mexico—						
Unmanufactured ..	4,595	7,334	10,387	9,293	10,187	8,301
Manufactured ..	869	905	<i>r</i> 698	<i>r</i> 1,343	791	1,236
Netherlands Antilles—						
Manufactured ..	709	372	939	827	487	562
Cement sheets ..	2,607	2,070	2,828	2,541	2,532	2,839
Nicaragua—						
Manufactured ..	697	209	116	111	58	17
Panama Republic—						
Manufactured ..	911	1,010	990	1,741	2,243	1,590
Salvador—						
Unmanufactured ..	620	361	284	294	343	460
Manufactured ..	58	79	74	81	117	101
United States—						
Unmanufactured—						
Crude ..	33,447	36,293	49,321	49,518	50,819	49,513
Mill fibre ..	133,002	150,136	139,887	122,617	120,865	135,427
Other ..	439,256	474,663	426,783	437,447	403,612	451,709
Manufactured ..	4,064	16,307	26,831	19,859	12,104	29,450
Argentina—						
Unmanufactured ..	3,894	11,751	5,577	9,437	9,193	8,125
Brazil—						
Unmanufactured ..	13,179	7,493	10,526	10,394	11,159	10,823
Manufactured ..	13,790	1,050	946	706	692	675
Chile—						
Unmanufactured ..	—	—	—	—	<i>n.a.</i>	<i>n.a.</i>
Manufactured ..	3,219	4,243	4,372	3,916	2,769	4,740
Colombia—						
Unmanufactured ..	4,807	8,668	6,097	6,553	5,019	6,376
Manufactured ..	458	504	955	719	596	591
Ecuador—						
Unmanufactured ..	64	15	25	10	—	147
Manufactured ..	90	63	37	202	346	660
Peru—						
Unmanufactured ..	1,343	1,849	1,623	2,259	1,971	1,711
Manufactured ..	151	400	217	253	371	245
Surinam—						
Unmanufactured ..	7	7	—	—	<i>n.a.</i>	<i>n.a.</i>
Manufactured ..	540	545	490	1,408	934	<i>n.a.</i>
Uruguay ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,614	1,152	1,888
Venezuela—						
Unmanufactured ..	2,206	<i>r</i> 2,074	1,710	2,524	1,689	<i>n.a.</i>
Manufactured ..	1,175	<i>r</i> 4,425	2,621	3,796	2,158	<i>n.a.</i>

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

IMPORTS OF ASBESTOS (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Burma—						
Cement products ..	12,480	11,279	5,985	12,711	7,785	489
Formosa—						
Unmanufactured ..	558	427	501	906	400	417
Manufactured ..	409	531	370	524	204	262
Indonesia—						
Unmanufactured ..	69	163	68	179	224	703
Manufactured ..	216	385	498	460	403	186
Cement products ..	3,813	3,792	28,386	4,757	1,822	2,626
Iraq—						
Unmanufactured ..	38	56	485	1,095	91	<i>n.a.</i>
Manufactured ..	2,829	3,743	1,386	424	247	<i>n.a.</i>
Cement products ..			2,958	1,886	1,974	<i>n.a.</i>
Japan—						
Unmanufactured ..	19,961	20,078	32,861	48,712	38,126	52,836
Manufactured ..	387	504	748	386	397	223
Cement products ..	125	314	175	556	195	325
Lebanon—						
Unmanufactured ..	383	216	1,009	1,636	1,712	1,357
Manufactured ..	48	13	23	18	17	40
Cement products ..	<i>n.a.</i>	1,420	1,154	1,055	906	325
Philippine Republic—						
Unmanufactured ..	981	225	1,033	766	332	945
Manufactured ..	776	2,054	363	365	522	933
Cement products ..			964	246	48	—
Syria—						
Cement sheets ..	938	1,544	1,129	782	2,582	1,774
Other manufactures ..	24	32	26	42	38	51
Thailand—						
Unmanufactured ..	<i>n.a.</i>	—	45	3,551	3,426	2,215
Manufactured ..	2,132	5,670	1,210	120	93	568
Cement products ..	<i>n.a.</i>	2,018	3,445	7,245	5,418	5,005
Turkey—						
Unmanufactured ..	15	31	492	—	960	890
Manufactured ..	295	668	457	172	159	701
Cement products ..	3,270	1,512	223	519	981	104

BARIUM MINERALS

PRODUCTION OF BARIUM MINERALS*

Long tons

Producing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Great Britain—						
Barytes and witherite, unground	45,709	49,452	54,121	55,140	45,610	43,971
do. ground	27,475	33,499	21,477	22,788	13,442	13,093
Canada	197,743	226,550	286,460	203,614	174,749	213,363
Southern Rhodesia	—	—	—	—	30	213
Swaziland	323	401	461	313	428	411
Union of South Africa	2,091	1,689	2,422	3,008	2,429	2,103
India	18,792	7,623	6,315	12,913	15,657	13,338
Australia	6,872	6,264	6,009	9,778	6,802	4,054
Irish Republic	2,750	5,565	6,901	10,028	7,800	8,365
OTHER COUNTRIES						
Austria	4,813	5,806	9,960	9,924	9,997	3,583
France	46,751	62,953	54,502	75,380	119,584	90,000
Germany (Federal)	370,128	400,940	405,212	400,129	365,272	382,414
Germany (East) (d)	25,000	25,000	25,000	25,000	25,000	25,000
Greece	21,651	19,153	25,753	128,169	151,455	n.a.
Italy	73,153	102,353	92,031	111,558	109,800	95,645
Poland	n.a.	10,334	11,023	(d) 11,100	(d) 11,100	(d) 11,100
Portugal	343	319	309	762	1,207	3,357
Spain	10,482	8,779	7,594	18,113	28,043	25,166
Sweden (a)	96	122	—	—	—	—
U.S.S.R. (d)	98,000	98,000	98,000	98,000	120,000	120,000
Yugoslavia (b)	95,571	84,224	78,449	88,189	76,082	113,010
Algeria	13,356	30,107	29,324	48,477	42,335	30,520
Egypt	31	60	79	262	2,037	(d) 2,900
Morocco	9,150	24,267	29,127	14,532	42,018	36,227
Cuba (b)	—	—	—	20,354	10,653	n.a.
Mexico (b)	50,778	105,048	210,529	383,516	194,063	177,303
United States	826,818	994,747	1,207,065	1,164,770	434,185	774,287
Argentina	22,615	20,072	17,100	22,557	16,604	(d) 16,700
Brazil	11,966	3,526	14,462	49,419	59,308	50,009
Chile	3,166	3,094	425	768	n.a.	n.a.
Colombia	9,000	6,000	7,500	6,214	13,000	10,000
Peru	11,025	8,402	50,116	85,168	105,306	94,247
Burma	—	—	—	—	810	1,000
Japan	18,585	18,191	18,373	24,566	14,741	19,045
Korea (South)	300	833	r 647	7	—	—
Philippine Republic	—	—	r 4,504	r 5,436	57	166
Turkey	—	—	—	1,885	5,389	2,700
TOTAL†	2,020,000	2,360,000	2,780,000	3,100,000	2,200,000	2,500,000

*Barytes unless otherwise stated.

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

(a) Sales.

(b) Exports.

(c) Estimated.

(d) United States Bureau of Mines' estimate.

EXPORTS OF BARIUM MINERALS, ETC.*

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ground barytes ..	212	212	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Barium compounds, excluding blanc fixe ..	3,496	3,263	3,044	3,618	2,419	4,295
Canada—						
Barytes	185,586	217,920	278,820	178,379	154,412	197,965
India—						
Unground barytes ..	8,391	2,573	6,702	13,848	23,120	13,008
Australia (a)—						
Ground barytes ..	1,667	} 1,617	1,016	1,140	3,843	2,921
Sulphate incl. blanc fixe	1					
Irish Republic—						
Unground barytes ..	2,186	9,015	9,680	9,157	9,812	8,425
OTHER COUNTRIES						
Austria—						
Barytes	27	3	—	15	2	—
Belgium-Luxemburg						
E.U.—						
Barytes and witherite ..	1,186	1,674	1,370	1,195	223	1
Barytes, ground	93	29	6	12	24	3
Sulphate	1,732	1,255	636	334	339	745
Carbonate	132	160	180	26	12	—
Chloride	161	19	40	54	1	4
France—						
Barytes	689	13,257	5,026	18,339	29,371	18,857
Witherite	49	38	90	—	30	—
Chloride	2,025	2,575	4,217	4,780	4,153	5,613
Precipitated carbonate ..	2,260	2,909	1,799	2,069	1,244	1,673
Precipitated sulphate ..	421	144	74	1,635	626	150
Sulphide	20	6	6	12	11	7
Germany (Federal)—						
Barytes	121,684	} 123,481	116,823	104,671	121,184	117,937
Witherite	8					
Carbonate	7,328	8,612	7,593	6,402	7,528	11,722
Chloride	5,398	5,092	4,598	4,133	3,635	4,797
Sulphate	277	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	15,167
Greece—						
Barytes	18,592	19,943	35,769	47,143	97,448	110,515
Italy—						
Barytes	<i>r</i> 18,536	<i>r</i> 27,926	<i>r</i> 30,085	<i>r</i> 39,179	41,613	34,536
Witherite	20	6	15	—	500	63
Precipitated carbonate ..	90	54	40	70	103	41
Chloride	556	417	461	307	194	487
Precipitated sulphate ..	—	14	13	—	11	181
Sulphide	7	103	186	26	31	<i>n.a.</i>
Netherlands—						
Barytes, ground	3	5	393	82	1	102
Sulphate	452	612	903	586	1,919	1,920
Sulphide	2,609	5,503	3,979	3,801	3,181	3,222
Sweden—						
Barytes and witherite ..	1	—	39	18	38	—
U.S.S.R.—						
Barytes	<i>n.a.</i>	18,000	35,900	—	—	—
Yugoslavia—						
Unground barytes ..	92,229	82,898	71,108	77,434	64,987	100,358
Ground barytes ..	3,342	1,326	7,341	10,755	11,095	12,652

*For Lithopone, see "Zinc".

(a) Years ended June 30 of that stated.

EXPORTS OF BARIUM MINERALS, ETC. (cont.)

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
Algeria—						
Barytes	11,823	15,795	19,041	21,815	11,802	3,167
Morocco—						
Barytes	8,348	13,707	21,751	r 17,208	20,450	24,355
Tunisia—						
Barytes	—	—	49	—	—	—
Cuba—						
Barytes	—	—	—	20,354	10,653	n.a.
Mexico—						
Barytes	50,778	105,048	210,529	383,516	194,063	177,303
Brazil—						
Barytes	4,840	4,527	14,623	21,210	59,606	46,308
Peru—						
Barytes	11,331	19,026	48,584	118,961	77,561	99,563
Japan—						
Barytes	—	—	—	123	—	—
Chloride	3	6	2	7	—	1
Sulphate	7	9	179	166	95	62
Korea (South)—						
Barytes	n.a.	n.a.	n.a.	n.a.	251	1,008

IMPORTS OF BARIUM MINERALS, ETC.*

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Unground barytes ..	34,060	50,133	31,400	27,076	32,111	19,054
Ground barytes ..	21,209	21,793	18,999	18,608	17,822	17,769
Barium compounds, excluding blanc fixe ..	2,824	3,322	3,021	2,459	2,507	<i>n.a.</i>
Union of South Africa—						
Barytes	742	522	848	672	662	<i>n.a.</i>
Barium Compounds ..	168	150	227	305	239	<i>n.a.</i>
Canada—						
Barytes	1,104	1,294	1,317	1,635	1,234	1,484
Blanc fixe	279	535	400	332	400	905
British West Indies—						
Trinidad and Tobago—						
Barytes	22,769	26,621	35,622	<i>r</i> 19,370	36,207	33,647
India—						
Barytes	30	107	29	68	66	18
Carbonate	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	175	206	488
Chloride	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	238	357	483
Sulphate	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	171	67	105
Pakistan—						
Barytes	(<i>a</i>) 1,739	(<i>a</i>) 99	3,329	5,585	7,645	1,748
Australia (<i>b</i>)—						
Barytes ground ..	27	231	285	102	137	503
Carbonate	88	218	273	118	170	186
Chloride	104	188	196	158	146	171
Sulphate incl. blanc fixe	143	266	518	534	490	421
Other compounds ..	87	40	70	91	86	92
New Zealand—						
Barytes	1,000	<i>r</i> 901	<i>r</i> 776	<i>r</i> 886	2,135	1,199
Barium compounds ..	51	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
OTHER COUNTRIES						
Austria—						
Barytes	6,620	7,304	7,343	5,418	5,627	7,259
Carbonate	264	340	214	190	346	384
Chloride	30	125	148	145	79	89
Belgium-Luxemburg						
E.U.—						
Barytes and witherite ..	12,284	21,269	17,470	14,133	20,698	14,432
Barytes, ground	6,395	6,039	5,739	7,556	6,205	6,298
Sulphate	702	1,127	1,524	1,752	1,452	1,477
Carbonate	2,963	2,716	1,904	2,079	1,575	1,955
Chloride	976	1,587	2,307	2,357	1,782	1,887
Sulphide	2,615	2,934	2,950	3,757	3,168	3,178
Denmark—						
Barytes	87	57	41	1,020	922	687
Carbonate	131	203	226	165	332	306
Chloride	264	170	215	142	211	172
Sulphate	1,058	1,076	983	1,166	1,094	583
Finland—						
Barytes	682	876	420	165	345	351
Witherite	—	5	15	—	—	—
Chloride	58	9	114	145	130	73
Carbonate	98	31	66	116	51	110
Sulphate	109	216	183	210	379	471

*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	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
France—						
Barytes	26,367	40,577	36,372	25,891	43,592	62,608
Witherite	150	326	615	—	—	—
Chloride	10	21	1	—	—	—
Precipitated carbonate	—	—	—	—	12	—
Precipitated sulphate ..	429	801	1,422	954	574	611
Germany (Federal)—						
Barytes and witherite ..	—	14,458	16,276	23,745	27,175	7,945
Italy—						
Barytes	r 94	r 561	r 25	r 39	27	9
Witherite	1,013	971	498	972	—	163
Precipitated carbonate..	561	467	401	262	253	159
Chloride	23	75	101	45	88	52
Precipitated sulphate ..	402	580	670	716	677	512
Sulphide	205	423	247	—	—	n.a.
Netherlands—						
Barytes and witherite ..	15,913	23,380	26,726	22,970	25,166	19,113
Barytes, ground	4,724	4,874	4,350	5,040	3,567	4,083
Carbonate	1,531	1,909	1,614	2,053	3,028	3,667
Chloride	342	240	241	451	261	314
Sulphate	2,502	2,324	1,310	1,355	611	854
Portugal—						
Barytes	106	120	101	127	224	174
Carbonate	12	—	—	—	—	—
Chloride	168	113	73	81	16	26
Sulphate	32	34	12	19	17	25
Sweden—						
Barytes and witherite ..	2,073	2,673	2,908	3,331	2,835	1,989
Sulphate	1,267	1,750	1,642	1,695	1,584	1,919
Carbonate and chloride	1,452	1,316	1,069	912	759	1,464
U.S.S.R.—						
Barytes	n.a.	20,500	13,500	21,000	23,400	32,300
Algeria—						
Barytes	—	89	—	—	6,238	4,230
Sulphate	2	—	1	957	10	1
Carbonate	82	254	281	181	14	4
Belgian Congo—						
Barytes and witherite ..	32	10	—	33	1	45
Chloride	20	2	5	2	2	92
Sulphate	202	316	271	453	233	608
Morocco—						
Barytes	865	670	952	926	278	10
Tunisia—						
Barytes	424	375	177	914	624	1,084
Precipitated sulphate ..	10	—	18	98	4	—
Cuba—						
Sulphate	379	279	250	183	178	n.a.
Mexico—						
Barytes	2,729	1,937	3,942	1,364	644	896
Carbonate	n.a.	66	118	201	305	331
Chloride	n.a.	n.a.	18	126	88	323
United States—						
Unground barytes	283,119	321,104	525,940	743,416	470,144	571,070
Ground barytes	225	263	329	378	902	1,467
Witherite	3,942	2,110	2,620	2,704	2,181	2,279
Carbonate	290	1,462	1,608	1,378	288	1,692
Chloride	724	887	1,230	1,256	1,229	1,348
Sulphate	703	804	916	1,292	1,405	1,569
Argentina—						
Sulphate	487	—	24	38	299	41
Barium compounds	629	165	236	378	64	176

IMPORTS OF BARIUM MINERALS, ETC. (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Brazil—						
Carbonate	636	69	201	592	293	665
Chloride	541	86	57	151	192	364
Sulphate	719	223	426	557	177	379
Chile—						
Barytes	8	40	16	27	<i>n.a.</i>	<i>n.a.</i>
Carbonate	5	36	16	1	<i>n.a.</i>	<i>n.a.</i>
Chloride	—	1	—	2	<i>n.a.</i>	<i>n.a.</i>
Sulphate	2	3	5	3	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Barytes	—	—	3	2	1,614	1,620
Witherite	23	8	9	4	2	—
Carbonate	23	23	43	283	35	55
Chloride	5	34	1	19	2	15
Sulphate	485	1,031	2,004	32	2,225	2,685
Ecuador—						
Sulphate	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	230	499	359
Peru—						
Carbonate	43	110	56	60	73	55
Sulphate	<i>r</i> 26	<i>r</i> 32	<i>r</i> 26	<i>r</i> 30	38	38
Uruguay—						
Sulphate	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	266	159	139
Venezuela—						
Barytes	41,600	39,779	45,391	75,452	67,303	<i>n.a.</i>
Carbonate	—	—	11	133	21	<i>n.a.</i>
Chloride	47	72	212	283	317	<i>n.a.</i>
Sulphate	133	29	37	47	45	<i>n.a.</i>
Iraq—						
Barytes	<i>n.a.</i>	<i>n.a.</i>	16,628	28,150	12,149	<i>n.a.</i>
Japan—						
Barytes	2,062	2,174	4,368	6,508	2,540	10,714
Turkey—						
Barytes	3	33	41	2	—	319
Sulphate	16	—	26	16	15	76
Barium compounds ..	108	99	11	115	16	153

BENTONITE

(see also Fuller's Earth)

PRODUCTION OF BENTONITE

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Cyprus (a)	182	451	958	785	894	916
India	286	595	4,000	r 100	5,817	n.a.
Australia—						
Bentonite	1,122	647	1,404	856	123	} 285
Bentonitic clay	189	138	63	73	30	
New Zealand	582	718	1,638	1,573	1,801	2,149
OTHER COUNTRIES						
Austria	3,439	4,411	4,477	4,879	3,750	3,090
Greece	n.a.	n.a.	4,000	10,143	17,000	n.a.
Italy	32,476	44,167	49,891	38,627	49,905	59,472
Spain	1,496	1,732	2,738	2,247	4,708	6,481
Morocco (Northern)	219	3,405	881	} 4,897	n.a.	22,025
Morocco (Southern)	n.a.	n.a.	n.a.			
United States (c)	1,141,422	1,321,612	1,402,330	1,295,417	1,153,048	1,225,255
Argentina	n.a.	(b) 15,000	(b) 20,000	24,022	n.a.	n.a.
Turkey	—	—	—	—	600	n.a.

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

(a) Exports of bentonitic clay.

(b) Estimated.

(c) Sold or used by producers.

EXPORTS OF BENTONITE

Long tons

Exporting Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Cyprus (a)	182	451	958	785	894	916
India	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	10	271	455
OTHER COUNTRIES						
Austria	579	909	566	595	421	2
France	305	288	437	1,441	2,370	3,673
Germany (Federal)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,637	891
Italy	11,790	12,360	11,497	9,357	8,747	11,527
Yugoslavia	168	54	914	4,794	10,125	6,878
Algeria	13,531	17,560	26,960	31,118	36,150	26,014
Morocco	39	89	121	295	8,179	12,263
United States	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	66,000	40,000	<i>n.a.</i>
Argentina	127	665	217	456	940	2,735

(a) Bentonitic clay.

IMPORTS OF BENTONITE

Long tons

Importing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
India	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	79	24	45
Australia (a) (b)	3,460	4,858	5,432	4,668	5,476	4,944
OTHER COUNTRIES						
France	1,373	1,573	15,318	9,808	31,493	31,407
Germany (Federal)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,782	1,934
Italy	3,246	5,446	5,792	6,088	5,109	6,196
Portugal	288	386	420	619	814	652
Algeria	4	—	53	777	5,461	7,841
Morocco	2	2	497	178	357	100
United States	234	710	417	119	49	828
Ecuador	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	643	189	213

(a) Years ended June 30 of that stated.

(b) Including bentonitic clay.

BERYL
PRODUCTION OF BERYL

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Kenya	—	—	—	5	4	2
Northern Rhodesia ..	1	19	12	5	11	2
Somaliland						
Protectorate (a) ..	—	17	16	—	—	—
Southern Rhodesia ..	962	860	541	511	296	393
South West Africa ..	504	421	405	345	220	152
Swaziland	—	—	—	—	—	2
Uganda	69	99	88	70	77	209
Union of South Africa ..	181	122	119	635	414	181
India (b)	340	754	3,000	1,121	536	—
Australia	149	206	318	395	247	315
OTHER COUNTRIES						
Portugal	329	301	218	170	46	36
Belgian Congo	44	323	1,701	1,582	994	416
Malagasy Republic ..	579	282	151	265	105	418
Morocco	15	2	—	—	—	—
Mozambique	895	857	842	1,670	1,036	1,392
United States (c) ..	597	450	397	465	413	293
Argentina	1,280	1,330	1,537	1,402	896	<i>n.a.</i>
Brazil	1,411	1,745	2,073	1,296	1,156	1,006
Surinam	9	—	—	—	—	—
Afghanistan	27	29	27	13	—	—
TOTAL*	7,400	7,800	11,500	10,000	6,500	5,500

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

(a) Exports.

(b) Imports into the United States.

(c) Shipments from mine.

EXPORTS OF BERYL

Long tons

Exporting Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Rhodesia & Nyasaland ..	1,048	815	610	457	288	272
Somaliland Protectorate ..	—	17	16	—	—	—
South West Africa ..	400	355	354	278	259	99
Uganda	29	<i>r</i> 136	96	73	74	171
Union of South Africa ..	172	113	195	478	382	95
India (<i>a</i>)	340	754	3,000	1,121	536	—
Australia	163	210	309	397	146	—
OTHER COUNTRIES						
Portugal	306	277	233	156	52	79
Belgian Congo	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	400	1,257	446
Malagasy Republic ..	467	151	229	786	112	232
Morocco	10	18	11	—	10	—
Mozambique	879	705	860	1,330	1,001	1,496
Argentina	—	394	2,091	1,497	527	2,978
Brazil	1,253	1,527	1,912	2,212	1,401	2,613

(a) Imports into the United States.

IMPORTS OF BERYL*

Long tons

Importing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom (<i>a</i>) ..	175	232	<i>r</i> 441	<i>r</i> 909	295	255
OTHER COUNTRIES						
France	<i>n.a.</i>	<i>n.a.</i>	76	1,119	1,080	545
United States	5,192	5,390	11,046	6,509	4,106	7,177

*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	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
South West Africa—						
Ore	2	2	—	1	1	1
Uganda—						
Ore (<i>Bi content</i>) ..	—	1	—	1	7	7
Union of South Africa—						
Ore (<i>Bi content</i>) ..	1	—	—	r 19	1	—
Canada—						
Metal plus content of bullion, etc. exported	116	119	128	143	184	186
Australia—						
Concentrates (<i>Bi content</i>) ..	1	—	—	—	1	—
OTHER COUNTRIES						
France—						
Mispickel (<i>Bi content</i>) ..	11	59	50	44	50	54
Spain—						
Ore (<i>Bi content</i>) ..	37	29	66	93	50	27
Sweden—						
Metal (<i>c</i>)	50	65	39	54	50	50
Yugoslavia—						
Metal	108	102	109	98	76	89
Belgian Congo—						
Ore (<i>Bi content</i>) ..	1	—	—	—	—	—
Mozambique—						
Ore (<i>Bi content</i>) ..	1	2	—	3	1	10
Mexico—						
Ore (<i>Bi content</i>) ..	355	346	621	348	187	235
Argentina—						
Concentrates (<i>Bi content</i>) (<i>a</i>) ..	5	9	9	21	26	60
Bolivia (<i>b</i>)—						
Ore, etc. (<i>Bi content</i>) ..	45	50	33	40	109	220
Peru—						
Concentrates (<i>Bi content</i>) ..	—	—	1	10	9	} 346
Lead bars (<i>Bi content</i>) ..	—	163	130	92	131	
Metal	309	165	152	257	240	
Korea (South)—						
Ore (<i>Bi content</i>) ..	113	128	177	107	89	101

*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	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Bismuth.. ..	337	330	529	328	323	407
Bismuth salts	177	140	144	173	170	173
South West Africa—						
Ore	—	(3 cwt.)	(2 cwt.)	1	2	—
Uganda—						
Ore (<i>Bi content</i>)	1	(2 cwt.)	—	—	(8 cwt.)	6
Union of South Africa—						
Bismuth.. ..	1	—	—	104	—	—
Canada—						
Bismuth.. ..	60	25	59	64	48	149
Australia (a)—						
Concentrates	6	1	—	—	—	—
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Bismuth.. ..	27	19	5	1	27	63
France—						
Bismuth and alloys including scrap	17	25	59	64	34	58
Bismuth nitrate	15	19	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Germany (Federal)—						
Bismuth.. ..	31	14	74	81	158	205
Spain—						
Bismuth.. ..	—	—	11	48	35	25
Yugoslavia—						
Bismuth.. ..	109	94	107	90	67	67
Mexico—						
Bismuth, refined	89	109	105	124	139	95
do. impure bars	357	232	588	231	134	198
United States—						
Matte, residued, etc.	22	49	5	51	16	89
Metal and alloys	62	91	128	71	141	80
Argentina—						
Ore	<i>n.a.</i>	—	6	22	15	48
Bolivia—						
Ore, etc. (<i>Bi content</i>)	45	50	33	40	109	218
Peru—						
Bars, etc. (<i>Bi content</i>)	345	309	297	338	346	277
Japan—						
Bismuth.. ..	15	—	9	1	—	—
Korea (South)—						
Bismuth, unwrought	112	102	158	131	100	73

(a) Years ended June 30 of that stated.

IMPORTS OF BISMUTH, ETC.

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Bismuth	303	239	323	424	407	455
Unwrought alloys (b) ..	306	349	564	278	128	123
Canada—						
Bismuth	—	3	11	5	6	6
Bismuth salts	(£11,405)	(£7,927)	(£7,807)	(£9,231)	(£7,524)	5
India—						
Bismuth and alloys ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	19	42	49
Australia (c)—						
Bismuth	17	16	16	19	16	17
Bismuth salts	5	9	6	4	6	12
New Zealand—						
Bismuth and its salts ..	5	6	<i>r</i> 3	3	3	3
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Bismuth	3	3	6	1	4	22
Bismuth salts	38	44	63	46	63	62
Denmark—						
Bismuth salts	13	10	14	10	11	<i>n.a.</i>
France—						
Bismuth and alloys including scrap ..	213	259	306	314	311	445
Germany (Federal)—						
Bismuth	95	126	120	215	237	249
Italy—						
Bismuth	27	28	26	18	17	27
Bismuth salts	4	9	8	3	4	<i>n.a.</i>
Netherlands—						
Bismuth salts	6	15	13	39	54	67
Spain—						
Bismuth	—	1	1	—	—	1
Bismuth salts	—	—	—	3	—	1
Morocco—						
Bismuth salts	4	3	6	7	8	7
Mexico—						
Bismuth salts	3	3	8	7	6	5
United States						
Bismuth	281	270	413	374	336	193
Argentina—						
Bismuth and its salts ..	33	35	14	2	1	1
Brazil—						
Bismuth	4	—	2	2	1	2
Bismuth salts	25	13	14	12	8	9
Chile—						
Bismuth	3	2	—	4	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Bismuth salts	4	5	4	4	5	5
Peru—						
Bismuth salts	1	1	1	1	1	1
Iran (a)—						
Bismuth salts	4	<i>n.a.</i>	1	2	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Bismuth	1	—	—	—	—	—
Turkey—						
Bismuth salts	7	15	8	4	1	8

(a) Years ended March 20 following that stated.

(b) Containing more than 50% by weight of bismuth.

(c) Years ended June 30 of that stated.

BORATES
PRODUCTION OF CRUDE BORATES

Long tons

Producing Country and Description	1954	1955	1956	1957	1958	1959
Italy— Boric acid	3,783	3,631	3,633	3,489	3,405	2,448
United States (b)— Borates	(a) 705,758	r 465,971	r 486,319	483,146	471,615	553,523
Argentina— Borates	<i>n.a.</i>	13,000	20,000	21,429	20,445	10,479
Chile— Boron minerals ..	<i>n.a.</i>	<i>n.a.</i>	9,037	5,696	8,296	5,665
Turkey— Borates	14,105	41,520	32,948	26,946	68,306	78,985

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

(a) Quantity reported for 1954 contains a higher percentage of crude ore to finished products than those for subsequent years and the figure is not, therefore, strictly comparable.

(b) Sales.

EXPORTS OF BORATES

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Borax	1,609	1,588	595	270	802	1,149
Hong Kong—						
Borax	3	—	1	11	36	95
India—						
Borax	—	—	—	—	1	1
OTHER COUNTRIES						
Austria—						
Boric acid	—	3	1	3	1	4
Perborate of sodium	1,042	1,446	2,417	2,746	<i>n.a.</i>	2,587
Belgium-Luxemburg						
E.U.—						
Borax	1,540	1,227	1,067	669	199	14
Boric acid	23	130	19	4	5	4
Borates and perborates	116	38	14	119	20	666
France—						
Borax, refined	977	663	614	604	591	1,241
Boric acid	126	158	136	158	115	178
Borates and perborates	83	77	44	1,697	392	969
Germany (Federal)—						
Borates	3,541	2,261	1,325	456	(<i>b</i>) 129	(<i>b</i>) 354
Boric acid	486	312	307	206	156	173
Perborate of sodium	9,571	11,128	11,107	11,192	(<i>c</i>) 9,171	(<i>c</i>) 9,132
Italy—						
Boric acid crude	108	40	—	1	—	} 680
do. refined	420	238	444	634	1,451	
Borax, refined	1,439	921	1,912	3,065	4,093	2,080
Perborates	234	1	3	—	575	355
Netherlands—						
Borax	623	673	351	406	359	425
Sweden—						
Borax and boric acid	—	1	—	—	—	—
Perborate of sodium	90	110	59	52	79	157
Switzerland—						
Borax	—	51	20	—	—	—
United States—						
Borax, borates and boric acid	183,584	198,739	217,612	191,515	210,343	226,494
Argentina—						
Borates of calcium and sodium	98	—	—	3,689	3,030	2,006
Japan—						
Borax	1,032	813	2	5	2	2
Boric acid	386	599	20	11	3	53
Turkey—						
Borates	17,206	30,906	(<i>a</i>) 17,500	21,646	50,452	60,525

(a) Estimated.

(b) Borax only.

(c) Including other borates and perborates.

IMPORTS OF BORATES

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Boron minerals	16,095	15,779	15,852	15,883	14,889	21,967
Borax, crude	35	70	35	—	—	—
do. refined	25,388	23,487	23,250	25,724	23,708	25,616
Boric acid	5,115	5,426	3,079	2,975	3,472	3,645
Rhodesia & Nyasaland—						
Borax	85	45	64	76	121	117
Boric acid	4	7	4	5	3	12
Union of South Africa—						
Borax	576	974	1,202	1,440	1,188	<i>n.a.</i>
Boric acid	275	247	224	261	177	<i>n.a.</i>
Canada—						
Borax	7,547	8,413	9,248	9,182	9,077	8,999
Boric acid	1,049	1,348	1,663	1,420	1,457	2,017
Hong Kong—						
Borax, crude	15	—	—	—	—	—
do. refined	3,411	4,232	5,811	2,182	3,149	3,753
India—						
Borax	4,563	3,050	4,329	3,935	4,881	5,731
Boric acid	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	875	303	717
Pakistan—						
Borax	(b) 430	(b) 742	516	267	7	651
Australia (a)—						
Borates, crude	219	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Boron salts	2,316	3,228	3,171	2,545	2,519	3,495
Boric acid	570	817	985	1,150	1,049	1,080
New Zealand—						
Borax, crude	586	896	862	1,101	894	917
Boric acid	146	r 268	r 213	r 623	230	231
Irish Republic—						
Borax	448	605	845	1,299	933	779
OTHER COUNTRIES						
Austria—						
Borax, crude	2,490	3,620	3,899	3,483	3,552	4,259
do. refined	1	3	1	4	—	3
Boric acid	1	1	6	6	6	2
Perborate of sodium	20	1	—	1	<i>n.a.</i>	4
Belgium-Luxemburg						
E.U.—						
Borax	1,312	1,579	1,456	1,572	1,719	3,464
Boric acid	323	591	410	312	257	297
Borates and perborates	2,298	2,747	3,400	4,260	4,136	2,662
Denmark—						
Boron minerals	681	542	343	879	437	723
Borax	25	48	63	60	87	96
Boric acid	119	76	93	112	91	92
Borates and perborates	r 816	r 1,102	r 1,419	r 1,492	1,428	1,785
Finland—						
Borax	822	479	1,026	315	773	1,243
Boric acid	124	63	112	93	111	81

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

IMPORTS OF BORATES (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
France—						
Boron minerals ..	16,175	16,969	18,082	13,798	21,492	20,096
Borax refined	5,981	7,262	9,951	10,537	11,574	10,472
Boric acid	9	218	1,184	761	2,767	745
Borates and perborates	768	642	821	625	502	568
Germany (Federal)—						
Boron minerals ..	30,946	30,434	30,977	25,622	32,318	26,810
Boric acid	2,697	4,600	4,891	4,615	4,356	5,399
Borates	6,430	7,868	9,016	8,819	(a) 9,434	(a) 11,704
Perborate of sodium ..	169	274	412	350	(b) 1	(b) 74
Greece—						
Borax	34	51	106	74	8	n.a.
Italy—						
Boron minerals ..	4,969	11,986	15,901	10,059	11,925	18,961
Borax, refined	760	1,314	2,050	1,797	2,742	2,650
Borates	—	—	30	—	2	5
Perborates	106	285	554	1,009	—	99
Netherlands—						
Borax	8,464	8,816	8,380	10,028	8,405	11,653
Boric acid	634	804	712	793	850	1,160
Perborates	1,864	983	839	852	887	1,147
Norway—						
Borax	691	847	1,193	1,317	1,481	1,265
Boric acid	277	362	1,415	1,492	1,824	22
Portugal—						
Boric acid	128	71	159	190	212	75
Borax	425	1,076	830	760	1,090	821
Spain—						
Boric acid	—	8	2	5	20	—
Borates	9	—	6	34	—	—
Sweden—						
Borax	2,320	2,394	3,018	2,887	2,499	2,696
Boric acid	293	274	317	283	199	344
Perborate of sodium ..	2,543	1,770	1,666	1,622	3,586	1,027
Switzerland—						
Borax	3,256	4,073	3,313	4,364	3,770	2,595
Yugoslavia—						
Boric acid	86	29	34	19	1,088	94
Algeria—						
Borax	25	121	48	100	166	83
Boric acid	5	35	7	8	13	11
Angola—						
Borax	n.a.	7	6	8	20	23
Belgian Congo—						
Boric acid	5	1	64	5	5	9
Borax	13	56	56	82	54	30
Perborates	51	70	87	46	209	131
Egypt—						
Borax	519	373	213	225	484	313
Boric acid	16	23	21	47	73	140
Morocco—						
Borax	67	101	60	50	113	108
Perborates	60	43	42	26	22	12
Mozambique—						
Borax	1	7	7	4	4	8
Boric acid	1	2	1	3	1	—
Tunisia—						
Borax etc.	37	24	1	2	2	29
Cuba—						
Borax	332	371	276	430	340	n.a.
Boric acid	84	79	100	79	95	n.a.

(a) Borax only.

(b) Including other borates and perborates.

IMPORTS OF BORATES (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
Mexico—						
Borax	<i>n.a.</i>	<i>n.a.</i>	2,806	3,262	3,595	4,209
Boric acid	<i>n.a.</i>	<i>n.a.</i>	624	506	432	535
Brazil—						
Boron minerals	2,442	854	1,813	1,352	1,410	1,110
Boric acid	884	162	761	975	575	686
Borax	3,987	886	4,518	1,612	2,462	3,848
Borates	577	195	16	71	15	11
Chile—						
Borax	—	—	6	—	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Borax	384	498	484	435	249	217
Boric acid	177	125	169	235	137	148
Perborate of sodium	55	69	25	51	46	82
Ecuador—						
Borax	6	10	8	9	8	32
Boric acid	6	7	6	10	10	8
Peru—						
Borax	215	237	338	330	355	438
Boric acid	52	46	80	60	77	110
Uruguay—						
Borates	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	283	165	408
Venezuela—						
Borax	122	141	405	155	168	<i>n.a.</i>
Boric acid	61	<i>r</i> 41	100	90	67	<i>n.a.</i>
Indo-China—						
Borates	290	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Iran (a)—						
Borax	138	<i>n.a.</i>	403	155	221	<i>n.a.</i>
Boric acid	9	<i>n.a.</i>	5	8	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Borax	7,868	10,566	10,773	7,919	10,545	13,249
Boric acid	1,390	2,216	1,909	2,250	2,455	4,715
Philippine Republic—						
Boric acid	33	45	33	99	87	93
Syria—						
Borax	53	39	39	37	94	50
Boric acid	4	19	7	3	4	2
Thailand—						
Borax	<i>n.a.</i>	20	<i>n.a.</i>	118	702	445
Boric acid	<i>n.a.</i>	1	15	41	25	22
Turkey—						
Borax	105	89	158	46	88	251
Boric acid	5	10	33	5	12	3

(a) Years ended March 20 following that stated.

BROMINE
PRODUCTION OF BROMINE

Lb. avdp.

Producing Country	1954	1955	1956	1957	1958	1959
France (a)	2,637,000	2,778,000	2,831,000	3,280,000	3,549,000	3,770,000
Italy	1,092,642	1,105,779	1,117,644	1,549,534	1,211,892	<i>n.a.</i>
Spain	246,000	169,055	316,815	478,659	<i>n.a.</i>	<i>n.a.</i>
United States (a) (b) ..	187,399,110	184,453,846	196,730,115	191,971,145	176,397,000	195,483,000
Israel	—	—	<i>n.a.</i>	(c)1,075,000	1,687,000	4,000,000
Japan	1,905,000	2,950,000	2,751,000	2,529,000	3,296,000	3,474,000

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

(a) Sales.

(b) Including bromine content of compounds.

(c) Estimated.

EXPORTS OF BROMINE, ETC.

Lb. avdp.

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Bromine	3,900	25,300	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Bromides	640,500	569,600	537,500	533,300	376,000	481,000
OTHER COUNTRIES						
Belgium-Luxemburg						
E. U.—						
Bromine	220	—	—	—	4,400	—
Bromides, etc.	1,323	7,275	4,630	7,716	4,600	1,500
France—						
Bromine	716,723	854,071	176,590	357,369	347,200	901,000
Bromides	1,036,173	1,118,625	1,078,942	1,099,886	1,455,100	1,901,500
Germany (Federal)—						
Bromine	248,229	275,798	227,297	650,364	<i>n.a.</i>	<i>n.a.</i>
Bromides	419,742	188,054	171,740	113,097	159,200	152,100
Italy—						
Bromine	24	507	7,271	3,527	—	—
Bromides	2,866	37,992	9,017	441	3,298	3,700
Netherlands—						
Bromides, etc.	194,007	255,736	275,578	429,901	798,000	1,082,000
United States—						
Bromine and compounds (a) ..	5,082,437	3,649,861	6,111,363	10,510,719	10,071,033	9,171,539
Israel—						
Bromine	—	—	—	961,000	1,687,000	2,209,000
Japan—						
Bromine	<i>n.a.</i>	<i>n.a.</i>	247	2,180	3,221	68
Bromine compounds	63,370	17,571	63,090	33,711	44,000	33,281

(a) Including organic compounds.

IMPORTS OF BROMINE, ETC.

Lb. avdp.

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Bromine	647,000	278,000	56,000	407,680	672,000	<i>n.a.</i>
Union of South Africa—						
Bromine	1,041	1,064	1,295	1,879	899	<i>n.a.</i>
Canada—						
Bromine	27,023	31,686	26,462	19,065	17,397	66,434
Bromide of soda	50,945	36,587	55,579	51,933	79,806	87,918
India—						
Bromine	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	5,500	900	—
Bromide of potash	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	38,000	6,400	220
Bromide of soda	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,600	2,100	—
Australia (a)—						
Bromine	(£263)	(£194)	(£186)	(£186)	(£491)	(£412)
Bromate and bromide of potash	140,414	101,299	133,930	120,089	118,648	69,678
do. do. other	97,497	125,886	71,565	83,797	44,509	35,211
New Zealand—						
Bromine (£N.Z.)	(£201)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Bromide of soda	12,900	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Bromate and bromide of potash	8,700	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
OTHER COUNTRIES						
Belgium-Luxemburg E.U.—						
Bromine	9,259	11,464	14,771	33,731	20,300	30,200
Bromides, etc.	344,362	438,058	541,235	574,745	661,200	534,800
Denmark—						
Bromide of potash	22,928	26,015	10,582	9,921	14,300	13,000
Bromide of soda	50,045	45,636	26,015	45,856	58,900	82,000
Other bromides	4,409	12,566	53,793	42,549	45,000	<i>n.a.</i>
France—						
Bromides	—	2,425	220	11,684	400	2,600
Germany (Federal)—						
Bromine	103,613	24,251	5,732	329,591	<i>n.a.</i>	<i>n.a.</i>
Bromides	—	48,061	19,842	31,306	149,900	90,600
Italy—						
Bromine	154,191	163,980	220,477	76,942	110,700	311,300
Bromides	10,128	35,450	22,392	33,070	4,561	24,900
Netherlands—						
Bromine	141,096	149,914	227,076	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Bromides, etc.	286,601	359,353	233,690	288,806	335,000	423,000
Norway—						
Bromine	688	933	1,351	2,915	1,691	1,768
Portugal						
Bromine	1,283	1,069	604	1,411	653	589
Bromide of soda	864	2,474	1,413	776	1,063	745
Bromide of potash	5,730	6,105	3,532	7,022	4,698	6,169
Bromide of ammonium	24	756	384	88	697	646
Spain—						
Bromides	2,138	10,637	8,902	5,578	6,662	2
Sweden—						
Bromine	2,000	24,000	4,000	4,000	9,000	<i>n.a.</i>
Algeria—						
Bromine	220	—	—	3,527	—	200
Bromides	1,323	661	17,417	18,298	26,700	10,600
Belgian Congo—						
Bromides	264	1,823	110,948	1,400	1,285	198
Morocco—						
Bromides	1,817	48,517	9,017	11,627	9,830	6,934

(a) Years ended June 30 of that stated.

IMPORTS OF BROMINE, ETC. (cont.)

Lb. avdp.

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
Cuba—						
Bromine	745	3,239	562	30,377	6,788	<i>n.a.</i>
Mexico—						
Bromine	<i>n.a.</i>	<i>n.a.</i>	157,968	323,462	130,139	85,085
Bromides of potash and soda	63,310	21,954	29,260	31,098	39,388	31,006
United States—						
Bromine and compounds	487	692	2,918	1,512	11,933	26,200
Argentina—						
Bromine and compounds	188,678	147,692	86,062	194,818	249,828	151,142
Brazil—						
Bromine	2,479	3,388	1,468	2,258	1,142	6,508
Bromides	63,689	22,701	207,810	70,592	133,073	311,418
Chile—						
Bromine	488	939	79	289	<i>n.a.</i>	<i>n.a.</i>
Bromides	<i>n.a.</i>	2,850	734	963	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Bromine	267	—	1,243	1,151	146	60
Bromides, etc. ..	15,212	14,797	8,514	24,734	11,914	21,160
Peru—						
Bromine	505	225	265	362	163	478
Bromides	5,831	22,831	17,586	10,655	10,781	11,584
Iran (a)—						
Bromides	48,552	<i>n.a.</i>	13,302	13,444	6,195	<i>n.a.</i>
Japan—						
Bromine compounds ..	4	—	6,160	2,635	3,109	201
Philippine Republic—						
Bromide of potash ..	1,248	10,752	18,488	22,115	4,535	24,295
Thailand—						
Bromide of potash ..	<i>n.a.</i>	1,345	5,483	3,818	20,704	20,386
Turkey—						
Bromine	201	545	176	4,023	40	1,188
Bromides	19,648	28,885	131,237	47,278	46,244	8,093

(a) Years ended March 20 following that stated.

CADMIUM
PRODUCTION OF CADMIUM

Long tons

Producing Country ..	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom ..	141	151	112	102	124	138
Northern Rhodesia ..	—	—	52	56	17	—
South West Africa (a) ..	723	626	1,039	1,268	1,200	578
Canada (b) ..	485	857	1,044	1,057	784	920
Australia ..	288	301	276	393	353	340
OTHER COUNTRIES						
Austria ..	—	—	2	11	11	(e) 10
Belgium ..	(e) 570	(e) 640	664	600	960	1,200
France ..	140	177	107	173	172	240
Germany (Federal) ..	276	317	288	r 274	314	413
Italy ..	205	206	186	234	201	246
Netherlands (e) ..	10	15	16	34	40	40
Norway ..	80	114	124	109	107	127
Poland (h) ..	200	250	242	250	256	265
Spain ..	9	10	11	9	6	6
U.S.S.R. (h) ..	210	300	355	470	460	480
Yugoslavia ..	—	—	8	25	(h) 25	(h) 25
Belgian Congo ..	62	163	273	407	482	467
Guatemala ..	—	—	48	37	23	—
Mexico (c) ..	504	1,275	845	747	758	565
United States (d)— Metal ..	4,203	4,354	(g) 4,738	(g) 4,710	(g) 4,318	(g) 3,840
Compounds (metal content) ..	61	85	n.a.	n.a.	n.a.	n.a.
Peru (f) ..	30	62	48	46	85	n.a.
Japan ..	273	338	395	390	430	483
TOTAL* ..	7,200	8,300	9,000	9,500	9,000	9,000

*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) In addition secondary (metal and cadmium content of compounds) produced was as follows:

1954	62 Long tons
1955	128 "
1956	n.a.
1957	n.a.
1958	n.a.
1959	n.a.

(e) Estimate. Source: "Metallgesellschaft".

(f) Including cadmium content of concentrates.

(g) Including secondary.

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

EXPORTS OF CADMIUM, ETC.

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Compounds	42	46	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Rhodesia & Nyasaland—						
Metal	—	—	17	48	35	6
South West Africa (b) ..	305	627	1,039	1,267	1,200	578
Canada	347	697	858	867	564	884
Australia (a)	267	162	162	182	252	141
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Metal	142	141	164	249	453	675
Scrap	—	—	1	2	4	4
France—						
Cadmium (incl. scrap) ..	—	2	14	2	1	5
Cadmium salts	1	1	(d) 1	(d) 1	(d) 1	(d) —
Germany (Federal)—						
Cadmium	60	109	95	57	57	83
Cadmium oxide	11	19	7	16	13	21
Italy—						
Cadmium (incl. scrap) ..	28	424	126	70	24	35
Cadmium salts	4	4	2	—	5	—
Norway	(e) 51	(e) 74	(e) 128	(e) 89	(e) 70	133
U.S.S.R.	<i>n.a.</i>	153	217	210	254	314
Belgian Congo	30	138	168	443	425	576
Mexico (c)	506	1,275	730	746	695	527
United States—						
Metal, alloys, dross, flue						
dust, etc.	446	622	573	309	259	402
Peru	14	15	13	18	49	71
Japan	<i>n.a.</i>	<i>n.a.</i>	152	116	114	57

(a) Years ended June 30 of that stated.

(b) Cadmium content of concentrates exported for treatment.

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

(d) Sulphide only.

(e) Estimated.

IMPORTS OF CADMIUM, ETC.

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Metal	715	852	756	849	824	1,127
India—						
Cadmium	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	16	61	96
Australia (b)—						
Cadmium salts	2	1	2	1	1	2
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Metal	20	28	41	37	63	74
Scrap	2	—	1	15	10	2
France—						
Cadmium	164	307	358	398	438	389
Cadmium salts	20	24	(a) 20	(a) 15	(a) 14	(a) 14
Germany (Federal)—						
Cadmium	314	382	604	472	521	630
Cadmium oxide	15	11	7	8	12	18
Italy—						
Cadmium	4	—	10	9	—	33
Cadmium sulphide	2	4	2	4	5	<i>n.a.</i>
Sweden	132	86	55	115	86	137
U.S.S.R.	<i>n.a.</i>	300	300	300	300	300
Yugoslavia	6	7	7	6	4	2
Algeria	—	—	1	1	—	1
United States—						
Cadmium	180	414	1,391	708	447	731
Flue dust (cadmium content)	662	818	648	625	544	689
Argentina—						
Cadmium salts	10	15	—	—	1	2
Brazil—						
Cadmium	8	8	13	4	28	30
Cadmium salts	8	1	4	1	—	—

(a) Sulphide only.

(b) Years ended June 30 of that stated.

CEMENT
PRODUCTION OF CEMENT

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom	11,960,000	12,513,000	12,763,000	11,962,000	11,666,000	12,588,000
Kenya	69,428	128,634	183,596	202,630	238,315	312,000
Nigeria	—	—	—	<i>n.a.</i>	(d) 112,990	(d) 106,649
Northern Rhodesia	65,700	79,800	111,000	172,000	187,000	134,000
Nyasaland	—	—	—	<i>n.a.</i>	39,000	34,219
Southern Rhodesia	320,000	397,000	459,000	476,000	596,000	<i>n.a.</i>
Uganda	40,989	49,234	58,957	85,434	104,447	80,300
Union of South Africa	2,127,970	2,299,562	2,431,511	2,485,416	2,678,635	2,605,000
Canada (a)	3,505,856	3,932,571	4,483,646	5,400,980	5,494,126	5,621,437
Jamaica	96,500	107,000	130,000	138,000	175,000	194,000
Trinidad	24,000	121,100	137,100	130,800	147,400	177,300
Ceylon	82,298	84,387	83,371	48,195	79,079	93,463
Cyprus	—	—	36,258	65,607	81,676	81,760
Hong Kong	98,803	114,687	118,807	102,679	149,966	139,820
India	4,397,000	4,487,000	r 4,929,000	r 5,602,000	6,068,000	6,825,000
Malaya	85,000	107,000	102,300	112,200	110,000	190,000
Pakistan	673,000	682,000	774,000	1,076,000	1,073,000	986,000
Australia	1,883,700	1,960,000	2,103,000	2,285,000	2,417,500	2,574,600
New Zealand	318,000	403,000	444,000	531,000	552,000	553,000
TOTAL	25,748,000	27,466,000	r29,349,000	r30,900,000	31,970,000	34,000,000
Irish Republic	582,943	661,160	700,576	516,336	425,438	520,713
OTHER COUNTRIES						
Albania	15,152	r 43,845	r 63,761	69,112	77,000	(c) 69,000
Austria	1,596,520	1,826,370	1,905,870	2,095,260	2,120,190	2,378,330
Belgium (b)	4,306,000	4,615,000	4,590,000	4,631,000	3,993,276	4,368,480
Bulgaria	768,000	799,000	845,000	866,000	919,000	1,410,000
Czechoslovakia	2,522,000	2,846,000	3,098,000	3,614,000	4,045,000	4,669,000
Denmark—						
Portland cement	1,130,948	1,160,339	1,083,826	1,046,285	951,000	1,214,073
Special cements	72,144	79,022	84,512	99,226	110,126	153,983
Finland	r 1,084,000	r 1,024,100	r 944,400	r 930,500	910,800	1,151,400
France—						
Portland cement	6,214,238	7,332,979	7,644,900	7,629,554	} 13,420,000	} 13,960,000
Portland blast furnace cements	2,358,793	2,230,748	2,234,663	2,798,109		
Slag cements	67,749	48,708	37,187	24,218		
Masonry cements	415,113	388,420	441,233	746,496		
Natural cements	311,454	144,370	124,824	196,438		
Special cements	291,992	361,882	814,096	1,039,310		
Germany (Federal)—						
Portland cement	11,732,000	13,392,000	13,694,000	13,489,000	13,794,000	16,338,000
Portland blast furnace cements	3,284,000	4,052,000	4,332,000	4,295,000	4,480,000	5,132,000
Special cements	355,000	452,000	579,000	733,000	810,000	1,022,000
Germany (East)	2,593,000	2,924,000	3,217,000	3,405,000	3,502,000	4,139,000
Greece	850,000	1,118,000	1,218,000	1,230,000	1,339,000	1,422,000
Hungary	933,000	1,157,000	508,000	968,000	1,276,000	1,410,400
Iceland	—	—	—	—	32,000	77,000
Italy	8,637,781	10,492,713	r11,160,031	r11,762,357	12,398,150	13,852,190
Luxemburg	149,000	155,000	160,000	187,000	192,509	188,977
Netherlands	957,000	1,084,000	1,236,000	1,229,000	1,344,000	1,574,400
Norway	758,330	787,245	880,891	1,000,953	1,014,939	1,088,367
Poland	3,349,000	3,753,000	3,971,000	4,425,000	4,978,000	5,227,000

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

PRODUCTION OF CEMENT (cont.)

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Portugal	770,907	766,907	1,007,624	963,695	1,008,009	1,014,731
Roumania	1,493,988	1,905,118	2,064,920	2,317,390	2,531,043	2,805,000
Saar	272,000	278,000	324,000	345,000	288,000	307,000
Spain—						
Portland cement	3,099,000	(f) 3,826,995	3,723,000	4,046,340	4,306,789	4,565,928
Natural cement	401,035	395,520	406,423	469,326	495,031	500,475
Other cements	171,180	(g)	213,130	369,954	428,662	523,108
Sweden—						
Portland cement	2,360,915	2,472,489	2,394,168	2,338,811	2,357,810	} 2,780,000
Other cements	65,099	36,953	61,396	72,749	112,263	
Switzerland	1,788,445	2,083,357	2,341,701	2,471,677	2,150,637	2,640,972
U.S.S.R.	18,692,000	22,129,000	24,465,000	r 28,440,000	32,780,000	38,000,000
Yugoslavia	1,371,000	1,552,000	1,530,000	1,952,000	1,936,000	2,185,000
Algeria	624,100	645,000	658,800	699,700	808,900	941,500
Angola	41,496	69,212	85,883	127,417	163,203	152,349
Belgian Congo	341,000	399,000	r 451,649	457,670	385,260	339,925
Canary Islands	—	—	—	1,678	5,493	49,389
Cameroun (French)	—	5,000	13,000	11,000	11,000	(e) 11,000
Egypt	1,217,000	1,349,000	1,330,000	1,443,000	1,489,000	1,750,000
Ethiopia (d)	13,000	21,500	26,500	22,100	31,000	25,000
French West Africa	81,690	127,078	143,184	156,000	147,000	171,000
Morocco (Northern)	—	41,427	—	n.a.	n.a.	n.a.
Morocco (Southern)	648,000	701,900	572,000	428,400	396,200	493,300
Mozambique	100,361	134,979	149,049	r 164,609	177,604	209,996
Sudan	—	63,000	66,000	59,000	(e) 64,000	(e) 71,000
Tunisia	279,375	377,275	353,800	394,800	339,500	434,900
Cuba	413,400	417,200	409,100	r 655,000	713,000	653,000
Dominican Republic	157,336	230,778	242,688	275,974	265,324	186,520
Guatemala (e)	61,000	78,000	78,000	92,000	120,000	93,000
Haiti	—	26,000	44,000	30,100	36,549	38,067
Mexico	1,737,000	2,062,554	2,240,703	2,519,141	2,498,642	2,670,000
Nicaragua	23,100	28,356	41,175	42,358	39,293	36,919
Panama Republic	76,000	72,000	69,000	78,000	66,000	(e) 69,000
Salvador	50,458	56,268	69,988	86,740	85,788	81,763
United States (a)—						
Portland cement	45,716,400	49,929,600	53,116,400	50,092,600	52,282,600	56,918,800
Prepared masonry cement (b)	n.a.	2,772,800	2,669,900	2,467,700	2,410,600	2,720,100
Natural, slag and hydraulic lime cements (c)	588,200	158,000	189,300	106,000	87,300	73,500
Argentina	1,682,000	1,839,933	1,996,687	2,327,000	2,432,000	2,330,000
Bolivia	32,997	36,934	32,547	23,284	28,454	28,990
Brazil	2,460,156	2,727,583	3,240,870	r 3,340,000	3,730,000	(e) 3,740,000
Chile	551,000	549,000	759,000	714,000	732,000	817,000
Colombia	911,440	1,029,769	1,201,181	1,192,154	1,194,100	1,326,335
Ecuador	93,310	143,977	149,403	152,590	157,307	155,000
Paraguay	6,712	11,568	13,364	12,131	7,287	7,100
Peru	475,042	535,965	543,217	536,528	595,387	573,000
Uruguay	292,000	262,000	334,000	410,000	426,000	415,000
Venezuela	1,193,863	1,262,043	1,428,252	1,719,723	1,589,998	1,842,116
Burma	57,927	59,056	37,900	34,838	30,021	35,630
China	4,500,000	4,432,000	6,292,000	r 6,750,000	9,200,000	12,500,000
Formosa	527,944	580,517	588,216	618,009	994,225	1,055,435
Indonesia	145,000	147,000	143,000	247,000	292,000	(e) 295,000

(a) Including Puerto Rico.

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

(c) Including masonry cement from natural, slag and hydraulic lime cement plants.

(d) Years ended September 10 of that stated.

(e) United States Bureau of Mines' estimate.

(f) Including "other cements".

(g) Included with Portland cement.

PRODUCTION OF CEMENT (cont.)

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Iran (c)	64,000	129,874	220,942	308,444	397,000	569,668
Iraq (d)	223,183	380,202	514,915	658,833	650,120	(a) 600,000
Israel	557,211	653,068	603,157	707,000	701,681	768,644
Japan—						
Portland cement	10,150,000	9,917,000	12,149,000	} 14,940,000	14,748,000	16,996,000
Other cements	360,000	474,000	668,000			
Jordan	62,000	<i>n.a.</i>	78,003	105,478	114,081	104,763
Korea (South)	60,229	55,271	45,829	90,524	290,983	352,207
Korea (North) (b)	492,000	354,000	591,000	689,000	1,205,000	1,968,000
Lebanon	320,821	445,623	479,827	551,427	498,510	731,698
Philippine Republic	310,680	402,299	439,248	502,959	633,177	715,677
Syria	245,141	260,114	320,406	309,976	402,000	441,000
Thailand	377,000	380,000	392,000	396,000	449,000	474,000
Turkey	668,669	808,255	914,633	1,241,278	1,492,562	1,706,659
Vietnam	250,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
TOTAL (a)	166,000,000	186,000,000	201,000,000	212,000,000	226,000,000	255,000,000
WORLD'S TOTAL (a)	192,000,000	214,000,000	231,000,000	243,000,000	258,000,000	290,000,000

(a) Estimated.

(b) United States Bureau of Mines' estimate.

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

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

CHINA CLAY
PRODUCTION OF CHINA CLAY

Long tons

Producing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Great Britain	972,473	1,144,234	1,196,386	1,223,808	1,212,981	1,310,165
Kenya	—	919	1,499	1,140	1,185	1,143
Nigeria	—	—	213	18	75	5
Tanganyika	296	94	18	—	98	77
Union of South Africa	12,890	10,067	10,376	14,128	24,636	(b) 21,451
Hong Kong	6,053	5,432	5,463	6,961	7,621	7,256
India	146,144	117,471	r 154,579	180,513	182,136	251,000
Malaya	1,352	1,378	1,155	1,510	1,200	1,202
Australia	41,253	45,054	41,089	43,486	37,099	36,974
OTHER COUNTRIES						
Austria (crude)	237,365	256,205	268,062	287,632	295,523	292,883
Belgium	27,868	n.a.	n.a.	n.a.	n.a.	n.a.
Denmark—						
Crude	6,266	6,217	5,956	3,629	6,490	(d) 6,113
Washed and pressed	6,222	6,389	4,795	3,992	5,532	(d) 4,331
Washed waste	4,723	7,633	5,874	5,695	4,099	(d) 5,964
France	109,000	110,000	115,000	128,000	136,000	142,000
Germany (Federal)	290,929	313,301	313,644	325,478	323,559	301,678
Greece	10,383	n.a.	20,000	5,187	17,000	25,000
Italy—						
Crude	64,582	51,293	53,425	r 60,167	59,492	n.a.
Kaolinic earth	26,792	39,793	47,198	46,111	54,480	n.a.
Portugal—						
Crude	23,359	18,867	23,860	20,674	34,066	16,759
Washed	15,188	22,771	24,301	26,579	24,735	26,870
Kaolinic sand (c)	70	n.a.	n.a.	n.a.	n.a.	n.a.
Spain (crude)	50,976	65,491	55,661	83,968	89,460	114,133
Sweden (washed) (b)	1,707	1,480	1,603	771	907	n.a.
Algeria	374	566	—	—	—	—
Egypt	845	2,671	2,428	n.a.	8,964	n.a.
Malagasy Republic	46	87	25	19	—	—
Morocco	2	37	—	—	—	—
Mozambique	108	92	262	—	49	118
United States (a)	1,672,286	1,934,300	2,008,857	1,949,719	1,984,094	2,263,816
Argentina	26,000	27,000	28,000	22,031	n.a.	n.a.
Chile	5,486	3,570	2,854	n.a.	n.a.	n.a.
Colombia	n.a.	n.a.	2,239	6,603	4,000	15,000
Peru	(b) 184	(b) 93	(b) 104	65	48	n.a.
Japan	12,471	12,161	14,142	15,655	21,035	20,537
Korea (South)	9,308	13,920	9,239	6,517	21 224	42,137

China clay is known to have been produced in Bulgaria, Czechoslovakia, Roumania, U.S.S.R., Brazil, China, Indonesia and Thailand.

(a) Sold or used by producers.

(c) Kaolin content.

(b) Sales.

(d) Production in major establishments only.

EXPORTS OF CHINA CLAY

Long tons

Exporting Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom	527,584	683,507	758,651	774,861	754,153	834,903
Tanganyika	256	45	10	—	5	42
Union of South Africa	10	—	—	—	—	—
Hong Kong	3,632	4,072	4,107	5,268	4,920	4,292
India	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	243	283	302
Malaya	118	259	151	175	81	83
OTHER COUNTRIES						
Austria	18,681	26,078	30,146	34,723	31,549	27,190
Belgium-Luxemburg	—	—	—	—	—	—
E.U.	525	431	207	16	2	29
Denmark	576	807	963	1,543	318	1,370
France—						
China clay	2,508	2,986	8,301	8,172	8,368	21,969
Kaolinic earth	1,141	1,730	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Germany (Federal)	18,408	24,011	22,336	22,325	23,607	20,372
Greece	3,184	4,376	4,580	9,886	16,302	17,400
Italy	73	110	172	206	322	37
Netherlands (a)	666	964	461	474	545	558
Portugal	7,847	15,565	18,612	18,887	15,252	18,670
Spain	5,142	14,832	3,801	4,343	3,098	3,731
Sweden	15	17	6	—	—	—
Algeria	(b) 706	(b) 569	69	—	—	—
Morocco	—	37	<i>n.a.</i>	<i>n.a.</i>	25	—
United States	43,928	44,491	52,802	48,999	59,303	66,727
Argentina	2	—	—	59	197	198
Chile	—	394	—	—	<i>n.a.</i>	<i>n.a.</i>
Japan	21	530	415	205	1,166	196
Korea (South)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	13,387	5,098

Czechoslovakia is known to be a large exporter of china clay.

(a) Including pipe clay.

(b) Including kaolinic earth.

IMPORTS OF CHINA CLAY

Long tons

Importing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Union of South Africa (a)	1,679	1,562	2,502	2,411	1,860	<i>n.a.</i>
Canada	83,523	106,404	107,488	114,639	116,278	121,194
Hong Kong	222	106	210	71	80	77
India	11,960	15,042	8,664	4,284	5,809	4,288
Malaya	25	39	41	24	31	122
Pakistan	<i>n.a.</i>	<i>n.a.</i>	711	2,834	4,040	2,424
Australia	433	5,553	9,168	6,631	2,502	14,654
New Zealand	1,003	r 1,261	r 931	r 1,051	1,261	1,216
OTHER COUNTRIES						
Austria	1,244	2,624	2,674	3,699	2,279	6,159
Belgium-Luxemburg						
E.U.	41,933	45,467	47,262	52,213	39,907	40,938
Denmark	26,187	26,871	28,369	30,398	25,984	21,175
Finland	33,540	44,897	57,218	58,683	61,870	57,007
France—						
China clay	49,006	62,858	81,679	85,320	99,374	90,984
Kaolinic earth	921	744	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Germany (Federal)	112,879	143,363	156,558	173,210	184,706	229,858
Italy	62,401	72,198	91,336	103,133	94,361	110,757
Netherlands (b)	56,025	67,372	80,133	80,488	78,020	98,291
Norway	25,555	34,528	33,647	37,037	33,874	37,927
Portugal	110	121	32	162	144	133
Spain	69	396	205	594	1,984	571
Sweden	58,970	62,442	76,821	78,588	80,882	94,403
Yugoslavia	1,272	4,517	4,180	8,053	9,006	6,402
Algeria	2,594	2,982	3,090	3,812	3,306	3,220
Angola	<i>n.a.</i>	<i>n.a.</i>	20	20	13	—
Morocco	(c) 1,935	(c) 1,926	1,854	1,803	1,724	2,023
Mozambique	—	10	19	15	19	33
Tunisia	12	12	16	18	13	<i>n.a.</i>
Mexico	<i>n.a.</i>	<i>n.a.</i>	1,828	2,903	3,840	9,904
United States	119,959	136,068	129,413	119,917	120,296	126,014
Argentina	1,507	6,734	1,221	2,500	1,745	637
Brazil	58	85	140	219	40	107
Chile	51	37	38	30	<i>n.a.</i>	<i>n.a.</i>
Colombia	400	107	160	197	586	678
Ecuador	137	219	29	5	6	55
Peru	253	348	360	680	492	532
Uruguay	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,042	798	1,969
Indonesia	778	1,083	1,372	976	753	909
Iran (d)	7	<i>n.a.</i>	5	60	264	<i>n.a.</i>
Japan	9,967	10,896	12,173	15,655	14,277	14,811
Philippine Republic	537	344	313	642	765	1,930
Turkey	26	51	375	208	110	838

(a) Including Cornish or china stone.

(b) Including pipe clay.

(c) Including kaolinic earth.

(d) Years ended March 20 following that stated.

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

Long tons

Producing Country	Estimated Cr ₂ O ₃ content											
	1954	1955	1956	1957	1958	1959	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES												
Sierra Leone ..	18,760	20,742	19,580	15,716	14,236	17,090	7,900	8,700	8,200	6,600	6,400	7,700
Southern Rhodesia ..	395,097	401,076	400,868	583,996	522,540	484,918	190,000	192,000	192,000	280,000	265,000	233,000
Union of South Africa ..	631,196	533,368	616,835	655,014	621,483	669,534	284,000	236,000	r 274,000	r 289,000	280,000	300,000
Cyprus (a) ..	9,150	7,912	7,175	6,200	11,274	13,427	4,285	3,719	3,244	2,869	5,158	6,337
India ..	45,507	89,349	52,686	78,542	62,950	83,871	21,800	44,000	25,300	37,700	30,200	40,300
Pakistan ..	21,859	28,401	22,746	16,173	23,767	16,023	10,500	13,600	10,900	7,800	12,000	8,000
Australia ..	4,943	—	6,096	3,049	776	160	2,094	—	2,624	1,420	386	80
TOTAL ..	1,126,512	1,080,848	1,125,986	1,358,700	1,287,026	1,285,023	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
OTHER COUNTRIES												
Albania ..	98,737	r 129,166	r 130,086	164,648	198,000	(e) 196,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Greece ..	26,346	24,912	77,609	71,447	64,479	<i>n.a.</i>	12,000	11,000	35,000	32,000	29,000	<i>n.a.</i>
Portugal ..	21	—	—	—	—	—	8	—	—	—	—	—
U.S.R. (e) ..	620,000	670,000	728,000	760,000	790,000	840,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Yugoslavia ..	122,514	124,214	116,886	118,367	111,775	105,326	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Egypt ..	522	827	251	102	—	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Cuba ..	71,438	95,672	50,622	150,684	(e) 73,900	(e) 58,900	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Guatemala ..	130	286	896	1,044	1,044	404	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
United States (f) ..	145,862	136,833	185,412	148,354	128,388	(g) 94,000	56,000	54,800	73,052	57,858	51,227	36,000
Argentina ..	1,882	4,059	—	44	<i>n.a.</i>	<i>n.a.</i>	—	—	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Brazil ..	13,025	9,991	23,147	7,811	5,657	6,362	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Iran (d) ..	32,266	26,133	39,238	(c) 37,584	42,969	<i>n.a.</i>	6,200	4,800	11,100	18,000	21,000	<i>n.a.</i>
Japan ..	444,059	585,610	697,856	45,728	41,210	56,766	11,400	9,200	13,700	15,500	143,000	19,800
Philippine Republic ..	531,520	634,155	819,916	714,048	409,735	643,166	157,000	206,000	251,000	255,000	143,000	232,000
Turkey ..	83,611	45,348	48,153	899,740	512,674	381,539	255,000	304,000	394,000	432,000	246,000	183,000
New Caledonia ..	—	—	—	63,241	46,700	43,271	43,500	24,300	25,500	33,000	24,000	22,000
TOTAL ..	2,200,000	2,500,000	r 2,920,000	3,200,000	2,400,000	2,500,000	—	—	—	—	—	—
World's TOTAL ..	3,300,000	3,600,000	r 4,050,000	4,600,000	3,700,000	3,800,000	—	—	—	—	—	—

(a) Figures relate to saleable production.

(b) Estimated.

(c) Probably partial production only.

(d) Years ended March 20 following that stated.

(e) United States Bureau of Mines' estimate.

(f) Shipments from mine.

(g) Exports.

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

EXPORTS OF CHROME ORE, ETC.

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Chromium metal	237	238	224	571	466	994
Rhodesia & Nyasaland—						
Ore	284,355	382,845	455,969	625,775	367,037	492,304
Ferro-chrome	2,294	6,616	7,650	8,108	6,384	9,651
Sierra Leone—						
Ore	15,520	17,750	18,774	16,378	11,211	5,011
Union of South Africa—						
Ore	458,737	463,723	551,812	631,836	540,870	599,513
Canada—						
Ferro-chrome	13,664	11,030	8,837	9,225	9,339	6,709
Cyprus—						
Ore and concentrates ..	9,867	8,570	5,826	5,070	11,840	12,176
India—						
Ore	(a) 23,353	48,743	41,866	41,164	48,624	80,362
Pakistan—						
Ore	13,200	22,105	34,800	12,805	12,447	13,775
OTHER COUNTRIES						
Austria—						
Ore	1,917	2,271	2,692	1,148	1,445	158
France—						
Chromium metal	49	51	70	152	639	580
Ferro-chrome	6,051	11,615	10,130	11,887	10,623	21,000
Germany (Federal)—						
Ore	457	410	4,183	577	569	574
Chromium metal	109	186	244	519	443	260
Greece—						
Ore	22,168	38,032	39,522	44,379	29,208	20,783
Italy—						
Ferro-chrome	5	220	1,707	3,407	5	8,743
Norway—						
Ferro-chrome	10,562	25,542	22,594	19,338	14,307	30,604
Sweden—						
Ore	—	15	11	2,821	—	—
Ferro-chrome	6,325	10,935	10,516	9,263	9,871	15,597
U.S.S.R.—						
Ore	<i>n.a.</i>	155,500	215,500	254,700	211,600	267,700
Yugoslavia—						
Ore and concentrates ..	8,053	44,773	54,772	35,580	14,180	24,507
Ferro-chrome	1,855	3,490	2,857	2,645	7,611	7,871
Egypt—						
Ore	984	—	207	280	5	<i>n.a.</i>
Cuba—						
Ore	8,804	34,184	30,932	111,719	54,349	<i>n.a.</i>
Guatemala—						
Ore	<i>n.a.</i>	538	1,060	726	—	445
United States—						
Ore	771	1,197	1,542	747	640	64,862
Chromium metal	1	6	9	10	53	10
Ferro-chrome	1,879	4,191	4,943	4,049	1,714	5,470
Iran (b)—						
Ore	<i>n.a.</i>	<i>n.a.</i>	27,932	37,584	36,642	<i>n.a.</i>
Japan—						
Ferro-chrome	7	2,576	3,570	5,223	4,081	17,273
Philippine Republic—						
Ore and concentrates ..	456,328	407,129	r 588,350	627,983	390,560	735,250
Turkey—						
Ore	350,929	550,746	631,869	562,102	507,854	301,050
New Caledonia—						
Ore	58,559	87,701	48,413	60,048	41,096	44,041

(a) Sea-borne trade only.

(b) Years ended March 20 following that stated.

IMPORTS OF CHROME ORE, ETC.

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore	134,686	151,979	143,373	187,747	178,236	165,092
Ferro-chrome	9,134	26,187	26,211	29,192	25,764	31,901
Ferro-silicon-chrome	662	1,695	2,313	2,097	1,744	1,623
Canada—						
Ore	33,497	46,298	58,005	99,512	34,051	43,462
India—						
Ferro-chrome	87	193	77	259	131	271
Australia (a)—						
Ore	4,176	4,962	7,312	6,039	8,660	6,804
Ferro-chrome	1,012	994	1,701	1,911	1,240	2,680
OTHER COUNTRIES						
Austria—						
Ore	57,165	57,559	63,054	105,413	54,849	52,290
Ferro-chrome	5,467	6,711	8,384	9,218	5,927	11,254
Belgium-Luxemburg						
E.U.—						
Ore	415	712	862	1,220	472	491
Chromium metal	—	6	12	55	8	6
Ferro-chrome and silico-chrome	1,107	2,224	2,813	1,834	2,031	2,759
Denmark—						
Ferro-chrome	158	211	356	132	236	321
Finland—						
Ferro-chrome	403	565	612	934	815	1,109
France—						
Ore	57,755	104,529	146,367	126,604	103,969	151,202
Ferro-chrome	13	20	5	2	19	12
Germany (Federal)—						
Ore	204,578	234,320	218,427	173,712	255,249	263,392
Chromium metal	6	30	3	4	6	8
Hungary—						
Ore	28,385	29,055	17,938	11,477	31,543	<i>n.a.</i>
Ferro-chrome	2,015	1,416	1,695	2,207	1,754	<i>n.a.</i>
Italy—						
Ore	25,975	25,151	34,863	32,565	19,821	51,384
Chromium metal	5	1	8	6	33	5
Ferro-chrome	3,240	3,401	6,456	5,870	6,132	8,354
Netherlands—						
Ore	303	260	457	94	569	708
Ferro-chrome	188	165	258	186	244	290
Norway—						
Ore	30,356	77,034	85,461	59,993	46,293	72,432
Spain—						
Ferro-chrome	—	425	332	203	402	950
Sweden—						
Ore	40,168	78,826	64,508	87,283	59,545	108,768
Ferro-chrome	1,350	1,881	8,082	5,430	2,398	6,318
Yugoslavia—						
Ore	541	492	—	12,005	32,070	4,923
United States—						
Ore	1,312,561	1,637,499	1,942,014	2,038,144	1,128,069	1,387,094
(Cr_2O_3 content)	543,513	683,286	820,763	878,118	486,113	594,163
Ferro-chrome	8,539	17,319	23,195	27,598	14,255	57,202
(Cr content)	127	239	365	1,209	2,101	2,558
Metal and alloys						
Brazil—						
Ferro-chrome	114	54	44	83	250	269
Chile—						
Ferro-chrome	70	6	2	56	<i>n.a.</i>	<i>n.a.</i>

(a) Years ended June 30 of that stated.

IMPORTS OF CHROME ORE, ETC.

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
Japan—						
Ore	58,543	56,991	133,467	245,797	73,414	256,852
Ferro-chrome	488	143	91	84	51	—

COAL, COKE AND BY-PRODUCTS

PRODUCTION OF COAL (Including Brown Coal and Lignite)

Long tons

Producing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Great Britain—						
Mined—						
Anthracite	3,707,400	3,520,600	3,438,100	3,376,200	3,179,300	2,940,700
Bituminous	210,286,100	206,665,100	206,487,300	206,682,700	198,295,800	192,334,700
Opencast—						
Anthracite	769,200	849,600	723,500	620,600	765,900	656,100
Bituminous	9,327,900	10,516,100	11,357,100	12,948,300	13,581,100	10,177,000
Northern Ireland—						
Bituminous	2,390	1,243	1,550	3,508	2,971	5,362
Nigeria—						
Sub-bituminous	635,841	748,499	787,209	815,271	924,419	741,757
Southern Rhodesia—						
Bituminous	2,704,758	3,262,322	3,497,763	3,791,793	3,479,661	3,699,277
Swaziland—						
Anthracite	—	—	—	—	—	1,423
Tanganyika—						
Bituminous	522	785	1,488	1,046	1,109	1,739
Union of South Africa—						
Anthracite and bituminous	28,851,726	31,603,541	33,071,166	34,219,253	36,499,340	35,876,381
Canada—						
Bituminous	9,232,692	9,093,622	9,204,988	8,081,020	6,918,115	6,201,303
Sub-bituminous	2,193,056	2,089,471	2,021,770	1,687,144	1,505,040	1,548,110
Lignite	1,889,946	2,048,050	2,090,751	2,007,868	2,011,764	1,738,732
India—						
Bituminous and lignite	36,880,810	38,226,000	39,280,148	43,503,793	45,340,000	47,000,000
Pakistan—						
Lignite	553,743	529,000	646,000	516,000	597,000	723,000
Malaya—						
Sub-bituminous	224,540	206,118	182,479	152,711	66,452	75,634
Australia—						
Bituminous and semi-anthracite	17,921,841	17,692,362	17,762,401	18,299,901	18,673,000	18,609,000
Sub-bituminous	1,841,198	1,582,388	1,511,433	1,619,195	1,769,049	1,668,000
Brown coal	9,331,255	10,112,206	10,559,801	10,740,989	11,643,629	13,035,000
New Zealand—						
Anthracite	2,003	1,505	1,835	1,700	1,975	1,919
Bituminous	811,952	782,210	799,226	830,290	836,684	838,990
Sub-bituminous	1,590,914	1,590,194	1,621,206	1,602,584	1,702,707	1,798,352
Lignite	189,387	182,744	205,449	177,889	178,668	170,333
TOTAL	338,946,000	341,304,000	345,253,000	351,680,000	347,970,000	339,800,000
Irish Republic—						
Anthracite including dust	151,126	134,500	163,131	163,265	139,215	146,499
Semi-bituminous and other coal	51,044	59,200	72,957	73,553	61,618	82,697
OTHER COUNTRIES						
Albania—						
Brown coal and lignite	146,985	191,567	220,572	232,010	252,000	(a) 255,000
Austria—						
Bituminous	173,893	168,331	163,244	149,933	138,820	131,865
Brown coal	6,185,570	6,514,335	6,623,533	6,768,660	6,391,039	6,122,495
Belgium						
	28,786,760	29,503,000	29,088,333	28,627,014	26,635,000	22,397,402

(a) Estimated.

PRODUCTION OF COAL (cont.)

Long tons

Producing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Bulgaria—						
Anthracite and bituminous	289,000	288,000	364,000	379,000	374,000	490,000
Brown coal and lignite ..	8,497,000	9,604,000	10,282,000	r11,322,000	12,155,000	14,252,000
Czechoslovakia—						
Bituminous	21,264,000	21,785,000	23,041,000	23,799,000	23,554,000	24,727,000
Brown coal	35,493,000	38,105,000	43,432,000	48,013,000	53,453,000	50,305,000
Lignite	1,769,000	2,003,000	2,136,000	2,198,000	2,487,000	2,550,000
Denmark—						
Lignite	668,000	788,000	1,370,000	2,520,000	2,406,000	2,268,000
France—						
Anthracite and bituminous	53,554,640	54,462,083	54,261,233	r55,901,925	56,809,000	56,696,000
Lignite	1,880,000	2,021,000	2,216,735	r2,257,166	2,281,000	2,141,000
Germany—						
Federal Republic (b)—						
Anthracite	5,782,440	5,872,918	6,613,258	6,622,603	6,903,415	7,002,177
Bituminous (a) ..	120,261,567	122,825,379	125,721,160	124,477,081	123,633,000	116,653,000
Pechkohle	1,669,603	1,753,167	1,717,083	1,781,942	1,749,000	1,752,000
Brown coal	86,534,760	89,029,496	93,814,516	95,350,135	92,046,000	91,975,000
East Germany—						
Bituminous	2,606,000	r 2,625,000	2,700,000	2,710,000	2,858,000	2,796,000
Brown coal	179,040,000	197,444,000	r202,598,000	209,237,000	211,574,000	211,391,000
Greece—						
Lignite	688,959	770,032	785,000	982,000	1,174,000	1,476,000
Hungary—						
Bituminous	2,397,000	2,649,000	2,334,000	2,241,000	2,585,000	2,691,000
Brown coal	15,767,000	15,991,000	14,751,000	15,289,000	17,491,000	18,246,000
Lignite	3,023,000	3,331,000	3,177,000	3,431,000	3,782,000	4,010,000
Italy—						
Anthracite	62,587	46,890	52,895	54,546	43,032	30,743
Bituminous	994,051	1,070,272	1,007,150	952,916	669,902	695,821
Brown coal	633,564	412,574	397,175	387,845	817,772	1,202,184
Netherlands—						
Bituminous	11,880,822	11,707,000	11,468,730	11,196,165	11,692,335	11,822,746
Brown coal	247,531	251,000	265,478	283,395	251,323	195,625
Poland—						
Bituminous	90,172,000	92,983,600	93,646,200	92,609,500	93,480,900	97,500,000
Brown coal	5,816,000	5,949,300	6,085,100	5,862,000	7,421,600	9,200,000
Portugal—						
Anthracite	425,233	398,085	407,014	490,897	558,190	518,876
Brown coal	64,144	86,444	143,720	180,782	153,892	156,939
Roumania—						
Anthracite and bituminous ..	180,000	188,633	187,965	247,000	295,000	295,000
Lignite	1,874,297	2,257,155	2,487,475	2,851,975	2,901,103	3,228,000
Brown coal	3,347,746	3,561,989	3,694,583	3,845,000	4,074,000	4,328,000
Saar—						
Bituminous	16,552,000	17,056,000	16,818,000	16,195,000	16,164,000	15,972,000
Spain—						
Anthracite	1,932,921	1,928,271	2,238,200	2,793,701	3,071,448	2,578,866
Bituminous	10,469,728	10,300,283	10,409,282	10,916,852	11,144,956	10,748,167
Lignite	1,726,695	1,806,984	1,897,655	2,478,825	2,629,434	2,069,094

(a) Including Stockheim hard coal.

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

Hard coal. 1954—989,800; 1955—1,032,600; 1956—1,139,500; 1957—1,161,800; 1958—936,000; 1959—798,000.

Brown coal. 1954—9,600; 1955—24,800; 1956—41,000; 1957—268,000; 1958—239,000; 1959—255,000.

PRODUCTION OF COAL (cont.)

Long tons

Producing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Spitzbergen—						
Norwegian mines ..	335,143	317,059	383,864	378,101	283,414	243,876
Russian mines (e) ..	277,092	305,215	344,298	387,909	379,751	450,694
Sweden	263,059	277,496	289,570	299,388	313,719	268,000
U.S.S.R.—						
Bituminous, etc. ..	239,900,000	271,700,000	298,900,000	322,000,000	347,000,000	359,600,000
Lignite	101,800,000	113,100,000	123,500,000	134,000,000	141,000,000	138,900,000
Yugoslavia—						
Bituminous	966,000	1,115,000	1,215,000	1,207,000	1,188,000	1,276,000
Brown coal and lignite	12,458,000	13,852,000	15,617,000	16,435,000	17,598,000	19,498,000
Algeria—						
Bituminous	298,000	297,600	292,500	232,237	123,642	120,000
Belgian Congo—						
Bituminous	372,955	472,345	412,874	426,223	289,675	262,616
Malagasy Republic ..	973	50	364	1,110	—	—
Morocco—						
Anthracite	478,300	459,600	474,400	512,771	501,944	457,324
Mozambique—						
Bituminous	139,322	169,821	214,851	265,711	243,674	252,569
Greenland	r 13,000	r 16,000	r 16,000	17,000	31,000	29,000
Mexico	1,280,320	1,321,762	1,385,862	1,398,355	1,447,477	1,551,716
United States—						
Anthracite	25,967,390	23,396,923	25,803,768	22,623,501	18,902,805	18,436,862
Bituminous	345,949,548	412,024,579	444,639,000	437,586,226	364,302,241	365,400,000
Lignite	3,788,220	2,826,678	2,570,000	2,327,984	2,166,997	2,482,000
Argentina—						
Lignite	92,000	133,832	146,670	205,424	257,000	295,800
Brazil	2,023,004	2,232,480	2,198,775	2,040,654	2,204,393	2,091,000
Chile—						
Bituminous	2,231,520	2,271,618	2,241,590	2,063,059	1,967,819	1,860,361
Colombia	1,500,000	1,820,000	2,000,000	2,539,112	2,200,000	2,500,000
Peru—						
Anthracite	76,547	15,389	15,401	16,978	105,072	} 168,000
Bituminous	126,252	118,620	127,793	121,360	114,781	
Venezuela	31,891	29,995	30,292	34,022	35,956	33,452
Afghanistan	15,170	23,000	24,000	27,000	33,213	36,000
Burma	1,561	7,000	1,345	738	—	1,369
China	82,340,000	96,750,000	108,620,000	128,000,000	270,000,000	342,300,000
Formosa	2,084,000	2,322,054	2,489,103	2,870,028	3,131,172	3,506,856
Indo-China—						
Anthracite	971,600	(b)	(b)	(b)	(b)	(b)
Indonesia	885,652	800,816	815,158	705,958	714,168	627,551
Iran	(a) 250,000	(a) 250,000	(a) 250,000	(c) 108,461	(c) 181,379	n.a.
Japan—						
Anthracite	1,228,000	1,335,000	1,394,000	1,653,000	1,618,000	1,590,000
Bituminous	40,817,000	40,415,000	44,425,000	49,261,000	47,266,000	43,387,000
Lignite	1,421,619	1,346,487	1,496,300	1,636,219	1,557,448	1,536,504
Korea (South)—						
Anthracite	874,953	1,287,660	1,786,700	2,402,661	2,628,706	4,071,083
Korea (North)	f 1,660,000	f 3,100,000	f 4,000,000	f 5,000,000	6,771,000	8,700,000
Philippine Republic ..	117,738	128,126	149,312	188,132	106,078	137,644
Thailand—						
Lignite	6,000	39,000	86,000	98,000	123,000	107,808
Turkey—						
Bituminous	5,623,872	5,420,028	5,795,310	6,176,017	6,446,963	6,420,846
Lignite	2,062,285	2,377,880	2,962,440	3,579,449	3,760,172	3,605,103
Vietnam (North)—						
Anthracite	} (d)	1,080,000	} 1,196,000	1,100,000	1,473,000	(f) 2,000,000
Vietnam (South)—						
Anthracite			2,071	12,175	20,384	20,000
TOTAL	1,600,000,000	r 1,760,000,000	r 1,880,000,000	r 1,950,000,000	2,050,000,000	2,140,000,000
WORLD'S TOTAL ..	1,940,000,000	2,100,000,000	r 2,220,000,000	r 2,300,000,000	2,400,000,000	2,480,000,000

(a) Estimated
(d) See Indo-China.

(b) See Vietnam.
(e) Exports.

(c) Years ended March 20 following that stated.
(f) United States Bureau of Mines' estimate.

PRODUCTION OF COKE

Long tons

Producing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Great Britain—						
Gas-works—coke (a) ..	12,331,400	12,741,000	12,704,000	12,015,000	11,145,000	10,070,000
breeze (a) ..	2,832,400	2,855,000	2,862,000	2,712,000	2,634,000	2,470,000
Coke-ovens—coke ..	17,852,500	18,103,000	19,644,000	20,492,000	18,452,000	17,047,000
breeze ..	1,162,100	1,191,000	1,255,000	1,364,000	1,216,000	1,121,000
Northern Ireland—						
Gas works	172,300	163,376	159,300	115,000	<i>n.a.</i>	<i>n.a.</i>
Southern Rhodesia						
Union of South Africa ..	142,289	186,635	214,629	226,977	<i>n.a.</i>	<i>n.a.</i>
Canada—						
Gas-works—coke ..	141,319	59,943	} 54,032	44,037	47,886	} 3,656,145
breeze ..	30,231	74				
Coke-ovens—coke ..	2,699,603	3,317,834	} 3,813,125	3,633,821	3,062,029	
breeze ..	186,185	197,705				
India—						
Gas-works	90,546	91,718	70,665	112,692	122,470	127,377
Hard	2,323,434	2,601,465	2,495,297	2,663,116	3,023,551	4,231,448
Soft	1,538,607	1,650,814	1,652,015	1,721,697	1,785,470	1,781,576
Australia (d)						
Gas-works—coke ..	943,000	1,099,859	1,000,462	922,702	831,615	815,464
breeze ..	366,041	208,218	170,321	152,896	146,196	173,618
Coke-ovens—coke ..	2,010,404	2,046,790	2,058,426	2,234,458	2,295,737	2,196,650
breeze ..	139,758	128,684	170,513	203,979	182,390	170,190
New Zealand (b)—						
Gas-works	68,983	66,561	73,705	70,229	72,493	72,016
Irish Republic—						
Gas works (c)	98,650	99,131	94,538	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
OTHER COUNTRIES						
Austria—						
Gas-works	449,786	427,616	443,977	397,358	319,259	265,928
Coke-ovens	1,330,762	1,450,471	1,688,218	1,824,297	1,602,967	1,524,766
Belgium—						
Gas-works	17,700	9,000	1,000	4,000	4,000	1,000
Coke-ovens	6,049,740	6,497,000	7,155,623	7,043,445	6,797,000	7,103,000
Bulgaria	7,000	10,000	9,997	11,582	10,302	<i>n.a.</i>
Czechoslovakia	6,682,000	7,000,000	7,211,000	7,367,000	7,254,000	7,754,000
Denmark (gas-works) ..	437,000	572,200	544,000	528,000	519,000	<i>n.a.</i>
Finland (gas-works) ..	103,963	113,687	95,553	104,824	128,000	128,000
France—						
Gas-works (e)	2,110,000	1,704,000	r 1,588,000	r 1,509,000	} 12,590,000	994,000
Coke-ovens	9,115,644	10,590,000	12,093,573	12,407,742		
Semi-coke	282,165	296,780	299,601	276,818		12,857,000
Germany (Federal)—						
Gas-works	4,218,000	4,982,000	5,657,000	5,374,000	4,882,000	4,935,000
Coke-ovens—hard coke	34,465,000	39,976,000	42,857,000	44,616,000	42,890,000	37,921,000
do. brown-coal coke ..	682,000	611,000	576,000	574,000	589,000	586,000
Germany (East)—						
Hard coke	2,540,000	2,662,000	2,751,000	2,773,000	2,949,000	3,085,000
Brown-coal coke	6,558,000	6,718,000	7,037,000	7,290,000	7,456,000	7,422,000
Greece (gas-works) ..	26,040	23,195	21,822	21,175	20,519	19,057

(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.

PRODUCTION OF COKE (cont.)

Long tons

Producing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Hungary—						
Gas-works		385,000	378,000	408,000	416,000	425,000
Coke-ovens—hard coke	} 479,000	30,000	86,000	258,000	366,000	388,000
do. brown-coal coke		61,000	38,000	36,000	45,000	47,000
Italy—						
Gas-works	1,035,533	977,792	985,349	915,782	814,698	787,308
Coke-ovens	2,573,577	2,907,503	3,356,882	3,628,772	3,307,264	3,006,769
Luxemburg—						
Gas-works	32,000	35,000	36,000	35,000	35,000	34,000
Netherlands—						
Gas-works	913,000	854,000	767,000	648,000	558,000	430,000
Coke-ovens	3,327,000	3,839,000	4,186,000	4,215,000	4,058,000	4,063,000
Norway (gas-works)	61,484	56,815	58,961	55,309	48,632	48,483
Poland	8,386,200	9,877,000	10,344,000	10,725,000	10,967,100	11,400,000
Portugal (gas-works)	34,189	37,782	36,431	33,611	38,620	34,828
Roumania—						
Coke-ovens	107,644	141,689	251,666	428,572	553,708	599,000
Saar—						
Coke-ovens	3,607,665	3,877,036	4,139,930	4,255,660	} 4,221,000	4,367,000
Semi-coke	89,628	114,523	125,240	123,194		
Spain—						
Gas-works	241,348	245,631	257,698	249,775	264,514	268,114
Coke-ovens	1,216,658	1,429,537	1,622,898	1,853,977	2,018,637	2,369,221
Sweden (including breeze)	783,011	808,971	844,823	r 759,586	702,165	n.a.
Switzerland—						
Gas-works	r 443,369	r 467,411	r 503,713	r 500,539	450,640	460,551
U.S.S.R.	39,700,000	42,900,000	45,900,000	47,800,000	50,100,000	52,550,000
Yugoslavia—						
Gas-works	23,347	23,421	22,688	24,240	25,400	20,500
Coke-ovens	397,747	719,853	908,813	1,020,862	1,014,000	1,053,000
Algeria (gas-works)	87,460	82,908	86,174	90,135	(b) 85,000	88,000
Egypt	21,283	22,803	n.a.	n.a.	n.a.	n.a.
Libya—						
Gas-works	—	—	—	n.a.	(b) 5,000	(b) 5,000
Tunisia (gas-works)	10,547	589	—	—	—	—
Mexico (coke-ovens)	392,514	500,252	565,000	674,000	587,000	671,000
United States—						
Coke-ovens—						
Coke	51,718,149	64,801,868	e 64,278,787	e 65,947,046	e 47,326,545	e 48,918,996
Breeze and screenings	3,432,971	4,275,315	e 4,260,547	e 4,341,602	e 3,264,462	e 3,313,364
Coke-ovens (gas-works)						
(d)—						
Coke	1,015,281	898,323	(a)	(a)	(a)	(a)
Breeze and screenings	76,452	65,957	(a)	(a)	(a)	(a)
Beehive—						
Coke	536,655	1,533,582	2,223,468	1,866,097	534,261	959,193
Breeze and screenings	24,574	79,281	88,375	45,115	52,239	66,265
Gas-works—						
Coke	228,486	n.a.	n.a.	n.a.	n.a.	n.a.
Argentina	n.a.	138,691	n.a.	n.a.	n.a.	n.a.
Brazil (c)	449,575	473,530	468,043	507,000	566,000	512,000
Chile	r 366,000	r 338,000	(b) 500,000	(b) 500,000	(b) 480,000	(b) 480,000
Colombia	(b) 20,000	246,000	246,000	171,000	296,000	244,160
Peru	28,852	30,532	23,967	30,865	32,403	31,000
Uruguay (gas-works)—						
Coke	34,877	30,197	29,578	28,955	30,001	27,764
Breeze	5,797	4,248	4,314	4,997	4,253	4,036

(a) Included with production from coke-ovens.

(b) Estimated.

(c) Volta Redonda only.

(d) By-product coke plants owned by gas companies.

(e) Including production from coke-ovens (gas works).

PRODUCTION OF COKE (cont.)

Long tons

Producing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
China (a)	3,900,000	4,500,000	5,400,000	6,600,000	17,700,000	21,700,000
Formosa	176,300	172,000	190,200	251,800	213,100	187,700
Japan—						
Gas-works	2,169,407	2,335,742	2,644,000	2,971,000	2,840,917	3,172,889
Coke-ovens	3,431,258	3,721,780	4,196,000	4,715,000	4,388,192	5,188,015
Beehive, etc.	890,668	919,668	1,158,000	1,455,000	1,424,970	1,819,864
Korea (North) (a)	360,000	390,000	390,000	390,000	420,000	450,000
Korea (South)	1,049	—	—	3,000	1,300	—
Turkey—						
Gas-works	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	99,336	108,739	(b) 115,000
Coke-ovens	501,072	499,457	494,841	538,532	547,930	521,102
Semi-coke	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	79,108	80,025	81,320

(a) United States Bureau of Mines' estimate.

(b) Estimated.

PRODUCTION OF BRIQUETTES

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Great Britain	1,682,000	1,681,000	1,776,000	2,106,000	2,199,000	1,719,000
Canada	741,911	583,564	671,861	352,249	182,187	136,727
Australia (a)—						
Brown-coal briquettes..	587,252	631,000	634,000	617,989	626,174	642,950
New Zealand	13,187	13,137	<i>n.a.</i>	15,445	16,349	15,755
Irish Republic	5,818	1,672	2,015	1,800	<i>n.a.</i>	<i>n.a.</i>
OTHER COUNTRIES						
Austria—						
Brown-coal briquettes..	—	10,415	6,891	12,118	2,405	—
Belgium	1,356,505	1,512,000	1,789,580	1,793,552	1,020,000	985,959
Denmark—						
Brown-coal briquettes ..	23,663	17,957	20,677	25,469	30,112	(e) 20,062
France	6,626,789	6,600,160	r 7,773,279	8,125,650	6,968,000	6,456,000
Germany (Federal)—						
Coal briquettes..	5,532,000	6,370,000	7,082,000	7,243,000	5,544,000	4,636,000
Brown-coal briquettes ..	16,404,000	16,180,000	16,690,000	16,560,000	16,177,000	14,965,000
Germany (East)—						
Brown-coal briquettes ..	46,146,000	50,162,000	50,819,000	52,523,000	53,155,000	53,197,000
Hungary—						
Brown-coal briquettes ..	<i>n.a.</i>	554,000	530,000	569,000	755,000	855,000
Netherlands—						
Coal briquettes ..	903,976	961,000	1,016,624	1,124,279	1,069,163	1,043,550
Brown-coal briquettes ..	81,110	84,000	76,985	80,165	73,931	62,860
Poland—						
Coal briquettes..	664,800	687,800	637,800	654,000	631,000	672,000
Brown-coal briquettes ..	140,400	180,000	184,300	229,000	271,000	315,000
Portugal	89,898	94,401	99,915	89,842	73,852	59,039
Spain	1,093,949	1,163,227	1,274,679	1,360,614	1,410,847	1,257,001
Switzerland (b)	100,000	100,000	100,000	100,000	100,000	100,000
Algeria	r 28,582	24,014	r 30,152	r 42,229	44,724	48,713
Morocco	14,386	16,236	9,666	18,587	17,392	15,031
Tunisia	5,606	9,836	4,279	10,671	1,394	<i>n.a.</i>
United States (c)	1,450,412	1,454,948	1,355,839	986,412	924,340	773,321
Indo-China	49,152	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Korea (South)	72,266	40,314	—	300,000	334,866	455,048
Turkey (d)	88,573	80,441	66,459	57,852	113,729	117,313

(a) Years ended June 30 of that stated.

(b) Estimated.

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

1954—69,071; 1955—61,796; 1956—58,000; 1957—42,221; 1958—31,937; 1959—30,103.

(d) Sales.

(e) Production in major establishments only.

PRODUCTION OF COAL BY-PRODUCTS*

Long tons

Producing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Great Britain—						
Tar (quantity distilled)	2,777,000	2,778,000	2,869,000	2,866,000	2,722,000	2,616,000
Road tar (incl. refined) ..	653,000	662,000	608,000	588,000	538,000	556,000
Pitch	547,000	491,000	534,000	446,000	512,000	464,000
Motor benzol	197,600	189,000	204,000	189,000	168,000	—
Other motor spirits, etc.	115,300	109,300	90,300	82,700	56,700	5,700
Other refined light oils ..	186,700	195,700	197,600	227,500	226,700	—
Creosote-pitch mixture	780,000	803,000	879,000	1,050,000	899,000	857,000
Creosote oil	464,300	452,000	479,000	428,000	433,000	380,000
White naphthalene	10,300	9,600	10,500	8,700	6,500	6,100
Hot-pressed do.	19,200	20,800	22,600	19,600	23,500	29,300
Crude do.	11,400	19,600	19,000	20,700	25,100	27,200
Pyridine bases	1,100	1,500	1,500	1,300	1,600	1,500
Natural phenol	12,800	11,800	13,600	14,900	18,600	18,200
Refined cresylic acid	52,000	59,000	67,000	69,000	64,000	67,000
Anthracene 40-50%	2,410	2,600	2,800	3,400	2,300	3,700
Canada—						
Tar (crude)	210,043	221,198	231,791	223,854	183,948	<i>n.a.</i>
Tar (refined)	23,803	18,255	19,571	r 15,264	16,482	<i>n.a.</i>
Pitch	121,350	106,829	119,817	107,732	102,230	<i>n.a.</i>
Creosote oils	52,188	48,764	45,861	57,067	45,600	<i>n.a.</i>
Ammonium sulphate	31,683	37,165	34,806	27,276	26,234	<i>n.a.</i>
Benzol	26,265	33,270	37,298	34,532	27,665	<i>n.a.</i>
Toluol, xylol and naphthalene	8,472	10,092	10,633	10,018	9,531	<i>n.a.</i>
India (coke-ovens)—						
Tar	70,825	78,008	76,318	111,689	113,134	163,554
Benzol	4,087	3,071	2,621	5,570	4,096	3,198
Benzene	6	266	581	1,763	2,587	3,568
Toluol	48	32	38	96	282	216
Toluene	354	254	198	431	236	685
Solvent naphtha	225	159	154	492	478	513
Pitch	931	861	939	1,898	3,004	6,931
Naphthalene	68	18	38	29	82	28
Ammonium sulphate	10,092	11,902	14,281	22,276	24,547	34,471
Australia (a)—						
Tar (crude)	238,550	239,019	278,729	270,762	254,507	255,383
Tar (refined)	90,896	87,796	132,891	145,010	141,805	147,161
Tar oils (crude)	18,089	22,050	<i>n.a.</i>	17,813	17,869	17,750
Ammoniacal liquor	101,197	119,517	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
New Zealand (b)—						
Tar (gas-works)	15,034	13,017	12,888	13,577	13,234	13,046
Irish Republic (gas-works)—						
Tar	14,615	15,256	14,403	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
OTHER COUNTRIES						
Austria—						
Tar	65,703	23,586	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Benzol	14,887	2,752	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

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

See page 83 for conversion rates.

See Manufactured Nitrogen Compounds (pages 218-220) 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.

PRODUCTION OF COAL BY-PRODUCTS (cont.)

Long tons

Producing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
Belgium—						
Tar (crude)	187,919	214,525	244,406	248,150	243,310	253,548
Benzol (crude)	42,797	n.a.	n.a.	n.a.	n.a.	n.a.
do. motor	27,223	36,565	40,675	50,608	54,175	57,245
do. industrial	5,232	7,511	8,633	8,598	8,184	8,941
Benzene	14,928	10,098	11,834	4,869	n.a.	n.a.
Toluol and xylol	5,988	3,720	4,098	2,173	1,156	} 2,090
Solvent naphtha	957	1,193	1,535	827	386	
Ammonium sulphate	63,900	n.a.	n.a.	n.a.	n.a.	n.a.
Pitch	19,255	n.a.	n.a.	n.a.	n.a.	n.a.
Denmark (a)—						
Tar (gas-works)	41,642	44,084	40,559	41,072	39,845	n.a.
Benzol (crude)	1,084	495	405	136	84	n.a.
Finland (gas-works)—						
Tar	5,338	n.a.	n.a.	5,388	n.a.	n.a.
Benzol	538	n.a.	n.a.	581	n.a.	n.a.
Ammonia	325	n.a.	n.a.	343	n.a.	n.a.
France—						
Tar (crude)	584,305	627,407	682,749	r 698,154	713,190	705,186
Ammonium sulphate	88,489	100,900	111,800	112,700	115,005	n.a.
Benzol (crude)	101,135	114,198	127,542	131,153	135,757	144,558
Pitch	153,238	168,588	203,375	r 213,848	214,249	209,175
Phenol (crude)	8,710	n.a.	n.a.	n.a.	n.a.	n.a.
Naphthalene	28,380	35,023	37,812	49,082	59,785	77,028
Germany (Federal)—						
Tar (crude)	1,585,351	1,790,397	1,874,000	1,927,000	(b)1,627,000	(b)1,469,000
Pitch	782,550	874,149	920,925	950,120	966,024	862,390
Tar oils	486,247	566,188	633,152	673,487	646,578	589,034
Naphthalene	67,240	74,725	87,417	97,687	91,342	108,525
Benzol (crude)	431,999	502,709	537,965	554,989	539,000	487,000
Refined benzols	400,420	469,409	504,241	554,115	559,887	511,186
Phenol	8,141	9,607	10,676	12,172	12,908	15,100
Cresol and xylol	18,461	18,875	18,570	20,823	20,422	25,317
Anthracene	28,815	32,685	39,749	40,619	39,496	32,597
Pyridine and bases	453	355	790	884	717	782
Italy—						
Tar	148,493	162,243	174,087	180,886	170,921	163,179
Ammonium sulphate (c)	30,560	35,496	37,185	40,658	n.a.	n.a.
Benzol (crude)	28,285	32,697	34,890	39,139	35,043	30,444
Naphthalene (crude)	6,415	6,256	7,101	6,969	6,751	6,109
Distillates	48,651	51,853	52,989	45,834	46,083	50,996
Benzol (refined)	16,622	18,350	21,995	21,831	20,413	23,548
Toluol and xylol	4,651	5,756	6,437	5,799	6,601	6,847
Pitch	58,864	62,037	62,141	57,092	53,226	59,045
Solvent naphtha	1,252	1,151	943	918	1,033	1,111
Netherlands—						
Tar (crude)	148,000	166,000	n.a.	n.a.	n.a.	n.a.
Norway—						
Tar (gas-works)	6,405	6,642	5,958	6,094	5,577	5,594
Poland—						
Benzol (coke-ovens)	n.a.	122,500	131,100	137,000	139,000	140,000
Naphthalene	16,013	22,672	25,061	n.a.	n.a.	n.a.
Portugal (gas-works)—						
Tar (crude)	n.a.	3,668	3,722	2,053	n.a.	n.a.
Tar (refined)	n.a.	120	116	44	n.a.	n.a.
Creosote	n.a.	1,979	1,236	1,466	n.a.	n.a.
Pitch	n.a.	1,843	1,277	1,320	n.a.	n.a.

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

(b) Coke-ovens only.

(c) Gas-works only.

PRODUCTION OF COAL BY-PRODUCTS (cont.)

Long tons

Producing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Spain—						
Tar	50,454	75,032	83,768	141,173	107,787	130,613
Pitch	15,825	18,780	16,893	23,498	28,571	33,510
Benzol	13,857	18,849	16,991	22,355	32,491	35,640
Benzene	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	4,505	5,084	3,595
Toluol	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,396	1,892	1,203
Toluene	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	724	788	1,150
Solvent naphtha	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	303	354	244
Anthracene	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	9,385	10,048	10,114
Naphthalene	2,139	1,868	3,975	4,276	4,932	5,286
Ammonium sulphate	119,947	141,811	134,523	143,962	180,933	213,482
Creosote	1,654	5,076	8,622	4,184	9,077	9,484
Sweden—						
Tar (crude)	33,470	36,754	38,418	35,433	34,190	<i>n.a.</i>
Other tar	27,941	27,115	30,518	29,076	31,958	<i>n.a.</i>
Pitch	596	911	458	587	373	<i>n.a.</i>
Benzol, toluol, etc.	4,198	4,365	4,032	4,262	3,401	<i>n.a.</i>
Distillates, etc.	3,681	3,884	4,938	5,829	6,093	<i>n.a.</i>
Switzerland—						
Tar (crude) (gas-works)	25,671	<i>r</i> 27,006	29,434	28,999	27,282	26,608
Yugoslavia—						
Benzol	2,877	4,032	6,103	8,877	8,664	<i>n.a.</i>
Algeria—						
Tar (gas-works)	5,525	4,997	5,440	<i>r</i> 5,295	5,200	5,200
Tunisia						
Tar (gas-works)	968	192	—	—	—	—
United States—						
Coke-ovens—						
Tar (crude)	3,059,147	3,644,969	3,559,090	3,732,796	2,860,326	2,793,710
Pitch	670,608	1,002,446	915,633	825,896	736,134	640,808
Sulphate equivalent of ammonia produced (a)	792,172	933,749	870,359	905,112	660,036	639,913
Benzol	464,793	580,734	581,420	597,508	394,266	399,437
do. motor	8,944	(b)	(b)	4,931	3,736	1,337
Naphthalene (crude)	44,669	82,242	79,044	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Toluol and xylol	141,632	161,763	155,483	159,407	119,218	112,704
Solvent naphtha	14,688	17,665	18,669	20,123	14,164	12,895
Creosote	105,038	123,092	127,541	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Phenol	3,902	5,959	4,859	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Other light products	13,576	21,150	21,334	27,050	15,510	10,499
All sources (c)—						
Coal tar	3,080,735	3,644,970	3,559,090	3,732,796	2,860,326	2,793,710
Water gas and oil gas tar	192,479	262,521	205,726	179,915	121,970	65,342
Crude light oil (d)	821,963	1,001,847	979,187	1,006,197	730,903	710,120
Benzol, motor	8,944	(f)	(f)	(f)	(f)	(f)
do. other	856,033	1,024,930	1,121,967	1,105,160	957,233	1,157,060
Toluol	118,627	137,556	139,941	139,359	105,320	100,110
Xylol	34,186	38,761	39,876	39,575	29,380	26,170
Solvent naphtha	72,856	86,304	80,147	67,811	51,487	25,110
Other light oil derivatives						
.. .. .	25,683	31,843	30,650	42,810	27,730	21,230
Naphthalene (crude)	134,925	213,022	219,388	187,619	154,056	189,863
Creosote oil	466,849	514,687	525,595	505,429	445,817	358,880
Coal tar (e)	30,996	35,616	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

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

1954—734,659; 1955—876,184; 1956—788,125; 1957—811,520; 1958—571,802; 1959—553,807.

(b) Included with "Other light products".

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

(d) Including some material produced from petroleum.

(e) Sold or consumed in coal-tar solution.

(f) Included with "Other light oil derivatives".

PRODUCTION OF COAL BY-PRODUCTS (cont.)

Long tons

Producing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
(cont.)						
United States						
(cont.)—						
Tar, refined (a) ..	141,034	148,397	164,235	182,050	182,050	123,070
Tar, road ..	344,188	398,620	394,769	405,637	296,480	282,510
Distillate products, others ..	90,556	106,869	124,353	149,111	98,417	80,210
Pitch of tar ..	1,462,000	1,841,000	1,846,000	1,703,000	1,420,000	1,364,000
Pitch of tar coke ..	21,000	29,000	28,000	25,000	26,000	31,000
Mexico—						
Tar ..	5,516	5,879	n.a.	n.a.	n.a.	n.a.
Benzol ..	2,907	2,795	n.a.	n.a.	n.a.	n.a.
Creosote ..	6,840	6,099	n.a.	n.a.	n.a.	n.a.
Ammonium sulphate ..	3,579	3,675	n.a.	n.a.	n.a.	n.a.
Brazil (b)—						
Tar ..	42,514	45,774	49,862	53,000	n.a.	n.a.
Benzol ..	4,204	3,846	3,969	5,000	n.a.	n.a.
Toluol and xylol ..	772	759	1,185	1,000	n.a.	n.a.
Solvent naphtha ..	71	46	100	60	n.a.	n.a.
Naphthalene ..	1,651	1,832	2,087	2,184	n.a.	n.a.
Creosote oil ..	1,967	1,928	1,791	3,000	n.a.	n.a.
Ammonium sulphate ..	6,126	5,872	6,662	5,731	n.a.	n.a.
Pitch ..	1,605	1,908	1,491	2,000	n.a.	n.a.
Carbolic acid ..	293	n.a.	627	n.a.	n.a.	n.a.
Chile—						
Tar ..	16,394	n.a.	n.a.	n.a.	n.a.	n.a.
Colombia—						
Tar ..	n.a.	9,810	6,400	n.a.	n.a.	n.a.
Benzol ..	n.a.	1,718	1,848	n.a.	n.a.	n.a.
Ammonium sulphate ..	n.a.	1,295	2,000	n.a.	n.a.	n.a.
Uruguay (gas-works)—						
Tar ..	2,493	1,970	2,521	2,623	2,813	2,798
Benzol ..	69	154	157	175	165	152
Tar oil ..	105	97	—	—	—	—
Pitch ..	255	237	—	—	—	—
Japan—						
Tar ..	421,433	499,985	601,307	631,813	655,411	776,405
Benzol (crude) ..	87,811	96,291	117,000	130,582	126,656	160,223
do. (other) ..	47,821	52,769	69,835	58,815	76,046	93,326
Toluol and xylol ..	7,783	8,834	10,948	10,223	14,672	20,293
Solvent naphtha ..	5,149	6,508	7,132	6,534	7,250	8,846
Creosote oil ..	132,478	138,702	150,182	164,141	156,887	179,195
Carbolic acid (crude) ..	5,232	5,941	7,275	6,862	n.a.	10,409
Naphthalene (crude) ..	27,589	28,605	30,105	27,599	27,166	35,761
do. (refined) ..	16,145	16,310	23,385	28,564	29,262	10,176
Anthracene ..	4,547	4,712	4,712	6,450	6,107	7,904
Ammonium sulphate ..	87,705	99,468	114,408	122,099	118,925	n.a.
Turkey—						
Road tar ..	n.a.	n.a.	n.a.	8,819	10,954	—
Pitch ..	n.a.	n.a.	n.a.	15,917	9,913	9,794
Benzol ..	n.a.	n.a.	n.a.	4,894	4,963	4,404
Toluol and xylol ..	n.a.	n.a.	n.a.	357	372	386
Solvent naphtha ..	n.a.	n.a.	n.a.	175	48	25
Creosote ..	n.a.	n.a.	n.a.	4,490	4,788	4,452
Carbolic acid ..	n.a.	n.a.	n.a.	609	19	n.a.
Anthracene ..	n.a.	n.a.	n.a.	121	85	45
Ammonium sulphate ..	4,169	4,205	4,086	4,323	4,314	2,948
Naphthalene ..	402	331	520	650	657	587

*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) Used for paints, etc.

(b) Volta Redonda only.

EXPORTS OF COAL, COKE AND BY-PRODUCTS*

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Anthracite—						
smalls and graded ..	973,168	1,021,590	904,775	914,149	685,313	428,955
large	261,486	267,193	197,766	190,118	138,488	99,549
other	300,723	399,021	505,682	514,972	293,746	283,902
Bituminous—						
smalls and graded ..	6,102,549	4,931,136	2,621,772	1,801,445	1,808,495	1,842,339
unscreened	1,218,698	1,101,316	1,019,677	858,174	273,213	178,211
large	3,423,303	2,711,336	1,933,703	1,315,767	504,404	302,594
other	1,435,695	1,800,958	1,358,591	1,432,064	519,025	339,303
Bunkers	2,500,137	2,128,499	1,486,428	1,201,585	840,162	633,503
Coke, gas	646,953	643,468	775,424	923,365	682,491	607,192
do. other	897,309	1,202,944	1,579,419	1,821,322	709,413	758,742
Manufactured fuel ..	247,726	264,231	320,186	225,320	148,167	134,310
Tar	151,936	166,609	114,660	89,250	73,297	55,146
Pitch	255,186	221,163	263,843	232,625	179,524	166,840
Gibraltar—						
Coal (bunkers) (b) ..	31,000	35,450	29,156	34,000	12,000	6,000
Malta—						
Coal (bunkers on merchant ships) (b) ..	91	295	700	1,298	218	34
Kenya—						
Coal (bunkers) (b) ..	—	—	8	—	14	63
Mauritius—						
Coal (bunkers) (b) ..	2,508	746	63	—	—	—
Nigeria—						
Coal (incl. bunkers) ..	25,595	99,976	98,393	101,761	98,248	74,561
Rhodesia and Nyasaland—						
Coal	34,448	39,787	34,554	158,319	419,854	157,192
Coke	46,439	28,451	62,188	113,784	60,885	62,881
Union of South Africa—						
Coal	1,111,818	652,858	609,695	592,654	648,220	503,838
do. (bunkers)	67,338	33,004	35,940	33,798	10,779	1,852
Coke	5,077	579	350	440	1,985	1,630
Tar and pitch	1,070	2,180	6,553	18,317	9,664	24,621
Canada—						
Coal	183,808	517,238	519,128	353,177	301,853	422,896
do. (bunkers) (c) ..	51,758	50,656	39,165	32,157	25,621	19,320
do. do. (a)	230,297	374,285	370,076	384,852	300,431	238,257
Lignite	12,037	12,031	11,378	672	419	112
Coke	96,929	99,573	111,191	102,875	102,163	113,009
Tar and pitch	4,468	1	11,961	9,642	6,101	42
British West Indies—						
Bermuda—						
Coal (bunkers) (b) ..	<i>n.a.</i>	<i>n.a.</i>	541	360	—	—
Jamaica—						
Coal (bunkers) (b) ..	11,087	12,370	8,945	—	—	—
Trinidad and Tobago—						
Coal (bunkers) (b) ..	2,506	409	108	78	614	35
Aden—						
Coal (bunkers) (b) ..	16,347	17,756	20,341	11,661	3,565	425
Ceylon—						
Coal (bunkers) (b) ..	18,847	13,420	18,781	8,519	2,274	713
Cyprus—						
Coal (bunkers) (b) ..	130	403	823	2,458	90	—

*For Ammonium sulphate, etc. see Nitrogen Compounds, pages 221-222.

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

(b) Foreign coal. (See imports.)

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

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

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES (cont.)						
Hong Kong—						
Coal	5,397	2,067	234,162	14,392	3,028	539
Coke	49	—	149	127	942	955
India—						
Coal (by sea)	1,255,224	723,637	915,596	} 1,591,572	1,713,872	1,374,660
do. (by land)	(c) 758,997	(c) 744,908	888,610			
do. (bunkers—domestic produce) ..	154,494	133,947	52,382	n.a.	n.a.	n.a.
do. (bunkers—foreign produce) ..	—	2,534	—	n.a.	n.a.	n.a.
Coke (by sea)	14,618	20,321	23,366	} 71,635	78,786	35,310
do. (by land)	(c) 19,065	(c) 54	54			
Tar and pitch (by land) (c)	532	1,766	2,527	274	200	832
Malaya—						
Coal	377	8	31	—	15	5
do. (bunkers) (a) ..	13,657	8,871	16,389	7,476	4,322	1,361
Coke	436	222	443	449	364	332
Tar	94	77	72	151	53	69
Australia (d)—						
Coal	385,812	281,456	193,813	545,101	836,336	645,249
do. (bunkers)	31,718	25,363	38,749	9,065	11,608	8,187
Coke	28,223	21,885	66,590	129,392	112,760	8,823
New Zealand—						
Coal	5	r 4	—	2,902	1	7,142
do. (bunkers)	866	646	670	—	579	—
Coke	60	54	132	517	895	2,761
Tar	2	—	24	3	1	—
Irish Republic—						
Coal (bunkers) (a) ..	217	606	1,684	1,301	1,268	311
Coal and coke	10,647	2,695	7,618	16,667	7,522	4,532
OTHER COUNTRIES						
Austria—						
Bituminous	9	10	13	134	8	35
Brown coal	18,239	45,841	53,978	47,706	39,821	37,093
Coke	19	11	815	3	15	23
Tar	—	1,051	1,224	164	64	28
Pitch	35	9,608	16,985	18,087	5,169	2,772
Belgium-Luxemburg						
E.U.—						
Coal	5,364,846	7,098,717	4,475,513	3,868,304	2,779,509	2,216,472
do. (bunkers) (b) ..	21,938	24,405	18,934	14,113	6,596	7,222
Coke	789,788	667,016	839,405	742,984	828,762	625,642
Briquettes	318,669	440,572	597,477	683,954	184,721	150,948
Brown coal briquettes	48	524	—	1	—	—
Tar	1,432	4,509	3,822	4,626	5,885	20,373
Pitch	27,027	4,627	15,128	14,679	31,043	27,330
Czechoslovakia—						
Coal	n.a.	n.a.	547,000	722,000	1,482,000	1,565,000
Brown coal	n.a.	n.a.	1,253,000	1,516,000	1,246,000	1,295,000
Coke	1,115,000	1,179,000	1,236,000	1,141,000	1,028,000	1,190,000
Denmark—						
Brown coal briquettes	2,714	14,699	20,629	28,577	8,289	13,433
Tar and pitch	17,785	21,932	17,743	12,724	21,526	15,943

(a) Foreign coal (see imports).

(b) Bunkers for foreign ships only.

(c) Years ended March 31 following that stated.

(d) Years ended June 20 of that stated.

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

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
France—						
Anthracite	1,408	21,536	20,961	17,119	12,412	9,962
Bituminous	7,352,514	12,275,078	6,758,055	5,986,792	4,694,838	2,938,227
Brown coal	2,342	11,352	1,696	871	—	295
Coke	292,217	403,682	212,631	198,999	136,369	117,084
Briquettes	20,977	38,899	34,039	21,817	18,802	16,802
Brown coal briquettes	448	1,524	68	132	39	175
Coal, coke and briquettes—						
Bunkers (domestic produce)	20,565	34,771	16,761	16,451	25,807	21,993
do. (foreign produce)	51,246	33,998	34,825	34,576	11,351	7,315
Tar and pitch	3,181	8,509	26,722	34,412	63,207	55,219
Germany (Federal)—						
Coal	16,030,480	12,201,196	11,766,314	12,510,339	10,932,165	14,325,745
do. (bunkers) (a) ..	200,790	208,173	257,760	240,402	118,125	100,591
Brown coal	77,722	18,283	8,715	13,166	23,171	71,303
Coke	9,530,177	11,088,838	10,790,982	9,892,048	9,229,959	8,842,565
Coal briquettes	502,986	568,304	617,437	608,294	411,219	322,589
Brown-coal briquettes	1,585,502	1,626,694	1,605,905	1,639,501	1,629,584	1,483,242
Tar and pitch	145,707	82,235	82,657	110,591	162,114	185,779
Germany (East)—						
Coal	144,615	18,453	10,612	15,196	9,649	8,570
Coke	22,400	39,626	88,000	113,000	77,000	86,000
Brown coal briquettes	4,032,000	5,137,000	4,392,000	4,678,000	6,092,000	6,249,000
Hungary—						
Coal	686,715	518,685	212,465	30,517	92,000	<i>n.a.</i>
Italy—						
Coal (incl. bunkers) ..	3,124	5,018	10,173	9,472	5,722	2,788
Coke	51,735	71,061	104,038	101,361	19,253	36,567
Tar	8,557	7,204	516	3,061	3,116	2,437
Pitch	15,410	35,685	29,757	17,738	25,543	21,435
Netherlands—						
Coal	1,034,588	902,125	938,565	972,327	1,296,324	1,776,649
do. (bunkers)	(b) 170,829	(b) 238,388	(b) 194,382	(b) 160,724	(a) 6,832	(a) 6,686
Brown coal	1,496	10,892	43,910	62,729	44,972	10,342
Coke	1,514,049	1,901,942	2,016,468	2,016,521	1,658,470	2,024,599
Briquettes	107,041	180,151	203,925	305,017	292,443	392,221
Brown coal briquettes	45,253	33,635	30,418	29,627	28,375	24,227
Tar	1,614	3,242	6,304	1,692	208	1,246
Pitch	8,761	18,131	10,750	22,923	25,655	16,120
Norway—						
Tar	3,022	1,757	2,360	1,464	971	—
Pitch	253	94	75	65	539	25
Poland—						
Coal	23,852,000	23,765,000	18,884,000	13,146,000	15,948,000	15,753,000
Brown coal	<i>n.a.</i>	3,994,000	4,423,000	4,051,000	5,110,000	5,677,000
Coke	1,897,000	2,205,000	2,247,000	1,895,000	2,036,000	2,036,000
Portugal—						
Coal	2,046	6,411	138	96	183	110
do. (bunkers) (a) ..	760	2,131	2,261	2,365	1,758	1,710
Tar and pitch	60	90	75	75	82	69
Spain—						
Anthracite	3	70,947	51,009	18,951	—	—
Bituminous (incl. bunkers)	44,259	68,171	138,569	110,470	51,445	45,745
Other coal	7,026	13,404	13,265	15,596	18,571	16,342
Coke	329	2,867	103,437	80,249	534	698
Briquettes	200	—	—	—	—	—
Tar and pitch	—	9	3	1	9	2

(a) Bunkers for foreign ships only.

(b) Including imported coal.

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

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Spitzbergen—						
Coal (including bunkers)	605,713	r 608,789	680,782	r 721,518	685,078	694,000
Sweden—						
Coal	3,652	993	—	30	39	966
Coke	52,709	28,355	24,115	12,024	18,954	16,654
Tar, pitch, etc.	5,789	13,038	7,249	6,530	4,774	23
Switzerland—						
Coal	562	13,007	2,439	2,890	3,448	1,105
Coke	6,225	7,619	7,495	2,371	1,707	5,435
Briquettes	202	10,981	5,257	1,082	561	178
Tar and pitch (a) .. .	1,302	410	855	396	485	412
U.S.S.R.—						
Anthracite		1,414,700	1,562,700	1,747,300	1,861,100	1,810,000
Other coal		2,829,900	4,020,400	6,886,500	7,932,700	9,084,200
Coke	n.a.	1,591,200	1,933,500	2,161,300	2,378,800	2,427,100
Pitch		170,500	229,200	203,100	204,300	162,300
Yugoslavia—						
Bituminous	87,303	38,920	51,783	29,686	65,697	95,332
Brown coal	64,712	78,484	84,927	92,985	60,962	55,537
Lignite	33,227	—	—	10,451	3,878	670
Briquettes	1,477	374	—	—	30	36
Pitch	147	113	93	7,463	10,200	7,679
Tar	8,474	6,604	17,477	19,294	733	—
Algeria—						
Coal	55,059	35,430	(c) 31,747	(c) 18,379	(c) 7,298	(c) 4,390
do. (bunkers) .. .	14	139	65	59	—	—
do. do. (b) .. .	—	25,544	11,570	13,174	3,422	2,703
Coke	12	—	1,639	1,709	7	18
Briquettes (bunkers) .. .	38	69	n.a.	n.a.	n.a.	n.a.
Tar	242	255	18	6	—	—
Canary Islands—						
Coal	84	137	18	68	—	12
do. (bunkers) (b) .. .	1,825	—	—	—	—	—
Cape Verde Islands—						
Coal (bunkers) (b) .. .	3,272	2,383	5,167	1,169	5	1
Ceuta—						
Coal	5,842	844	855	868	485	76
do. (bunkers) (b) .. .	32,411	18,962	14,952	4,177	2,757	1,250
Egypt—						
Coal (bunkers for foreign ships) (b) .. .	2,996	1,118	—	140	187	n.a.
Malagasy Republic—						
Coal (bunkers) .. .	719	90	49	108	6	3
Morocco—						
Anthracite	199,149	281,599	210,395	251,672	211,621	206,566
Other coal	1,213	8,761	23	11,277	8,550	13,627
Briquettes	2,858	2,940	3,881	2,765	4,192	3,099
Mozambique—						
Coal (incl. bunkers) .. .	45,183	23,382	36,141	35,149	46,480	43,189
Mexico—						
Coal and coke	2	1	200	—	325	20
Tar	11	23	—	41	1	—
United States—						
Anthracite	2,545,749	2,814,565	4,682,454	3,867,665	2,035,588	1,596,034
Bituminous	27,714,789	45,783,264	61,207,704	r 68,254,937	44,904,805	33,238,184
do. (bunkers) .. .	381,314	397,148	445,506	r 374,429	320,106	326,612
Coke	346,049	473,665	585,462	734,146	350,729	410,912
Briquettes	88,311	94,905	95,939	77,200	49,072	29,873
Tar and pitch	38,474	44,796	51,077	51,925	59,634	27,628

(a) Including pitch from petroleum.

(b) Foreign coal (see imports).

(c) Including briquettes.

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

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Chile—						
Coal (including bunkers)	17,627	64,679	48,713	61,080	49,939	68,168
Coke	8,858	2,432	6,629	3,446	3,149	<i>n.a.</i>
Peru—						
Coal	18,439	300	5,021	26,329	2,363	52,235
Venezuela—						
Coal	1,053	—	—	—	2	237
Formosa—						
Coal (including bunkers)	100,630	46,473	105,020	29,753	29,833	89,432
Indo-China—						
Coal (including bunkers)	453,522	(<i>d</i>)	(<i>d</i>)	(<i>d</i>)	(<i>d</i>)	(<i>d</i>)
Indonesia—						
Coal (including bunkers)	85,529	46,755	11,365	40,417	19,105	14,403
Iran (<i>a</i>)—						
Coal	1,122	<i>n.a.</i>	267	792	249	<i>n.a.</i>
Japan—						
Coal	315,677	373,325	540,963	118,425	169,238	54,769
do. (bunkers) ..	100,134	128,966	98,590	36,268	10,170	6,555
Coke	1,293	37,282	16,193	2,160	3,240	14,147
Tar and pitch ..	5,020	3,105	18,053	12,608	19,026	7,909
Korea (South)—						
Anthracite	5	32,827	2	—	27,814	66,848
Lebanon—						
Coal	1,873	2,349	1,401	1,937	890	1,022
Coke	722	885	888	998	747	620
Briquettes	1,983	1,516	3,002	1,776	1,527	2,056
Turkey—						
Coal	—	—	—	—	—	3,882
Vietnam—						
Coal	(<i>b</i>)	(<i>c</i>) 163,799	(<i>c</i>) —	(<i>c</i>) 411	(<i>c</i>) —	<i>n.a.</i>

 (*a*) Years ended March 20 following that stated.

 (*b*) See under Indo-China.

 (*c*) South Vietnam only.

 (*d*) See under Vietnam.

IMPORTS OF COAL, COKE AND BY-PRODUCTS*

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Coal	2,949,350	11,320,301	5,462,311	2,828,385	793,927	117,964
Coke	8	608	1,404	914	5,834	4,416
Manufactured fuel	1	34	17	—	—	4
Tar and pitch	3,813	4,462	4,419	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Channel Islands—						
Anthracite	109,609	101,724	130,728	103,954	128,803	102,427
Bituminous	172,146	192,647	181,093	165,191	160,873	147,094
Coke	21,535	13,799	6,062	26	351	237
Gibraltar—						
Coal and coke (b)	33,711	39,772	30,947	36,000	14,225	7,057
Malta—						
Coal (c)	23,079	17,584	6,652	6,758	7,222	2,796
Coke	317	218	132	271	246	614
Gambia—						
Coal, coke and patent fuel	105	2	—	3	7	103
Tar	47	2	12	9	11	38
Ghana—						
Coal, coke and patent fuel	106,951	121,261	86,606	109,295	105,668	79,058
Tar	1,207	2,368	1,300	1,390	1,084	717
Kenya—						
Coal (c)	19,575	24,629	42,535	32,244	35,082	35,985
Coke	3,995	571	2,373	2,961	2,634	354
Tar	10	26	33	20	7	6
Mauritius—						
Coal (c)	26,497	8,846	19,070	16,982	18,572	13,597
Coke	286	295	424	381	273	244
Tar	12	23	51	15	20	13
Nigeria—						
Coal, coke and patent fuel	(a) 1,203	(a) 263	1,094	835	920	711
Tar	550	699	525	601	804	715
Rhodesia and Nyasaland—						
Coal	134,845	70,993	86,605	51,789	45,981	48,588
Coke	571	—	—	—	(e) 284	(e) 99
Tar	67	52	243	100	82	678
St. Helena—						
Coal	43	44	204	381	64	67
Sierra Leone—						
Coal, coke and briquettes	15,900	30,278	23,690	25,913	30,491	15,670
Tar	128	231	154	144	239	211
South West Africa—						
Coal	66,457	(d)	(d)	(d)	(d)	(d)
Coke	31	(d)	(d)	(d)	(d)	(d)
Tanganyika—						
Coal	51,611	5,129	4,456	234	394	218
Coke	994	124	866	628	370	188
Tar	13	25	13	33	34	23
Uganda—						
Coal	88	26	22	33	39	32
Coke	62	260	223	139	2	17
Tar	72	413	161	311	19	8

*For ammonium sulphate, etc., see Nitrogen Compounds, pages 223-229.

(a) Excess of re-exports.

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

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

(d) Included with Union of South Africa.

(e) Including patent fuel.

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

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES (cont.)						
Union of South Africa—						
Coal	1,508	(e) 94,806	(e) 40,163	(e) 49,820	(e) 54,962	n.a.
Coke	9	(e) 5	(e) 13	(e) 26	(e) 12	n.a.
Zanzibar—						
Coal	1,950	2,001	657	288	28	111
Canada—						
Anthracite	2,456,118	2,348,655	2,244,410	1,712,300	1,381,951	1,361,166
do. dust	3,598	14,294	28,471	6,894	7,351	70,895
Bituminous	13,895,438	14,888,103	17,545,823	15,283,528	11,242,029	11,030,876
do. (a)	230,297	374,285	370,076	384,852	300,431	238,257
Brown coal	2,521	1,382	1,732	1,934	924	—
Briquettes	114,431	110,907	113,146	65,452	37,339	21,894
Coke	228,669	315,308	445,328	579,790	272,616	341,681
Tar	4,421	9,310	2,726	6,083	3,426	1,798
Pitch	47,798	66,780	68,284	62,027	55,168	51,684
British Guiana—						
Coal	2,584	1,273	350	568	495	152
Coke	76	86	83	77	98	42
Patent fuel	27	78	51	24	25	70
Tar	252	n.a.	352	400	238	186
British West Indies—						
Bahamas—						
Coal	1	4	11	—	60	2
Barbados—						
Coal, coke, and patent fuel	1,131	1,255	957	1,048	975	715
Tar and pitch	n.a.	n.a.	n.a.	2,130	3,335	3,441
Bermuda—						
Bituminous (b)	648	838	2,025	1,042	1,098	10
Grenada—						
Coal	1	—	1	—	—	n.a.
Coke	3	3	1	2	3	n.a.
Jamaica—						
Coal (b)	8,054	16,661	5,348	984	400	235
Coke	531	762	635	915	804	575
Tar	30	71	68	44	43	62
Leeward Islands—						
Coal, coke and patent fuel	8	1,404	1,817	(c) 88	n.a.	n.a.
St. Lucia—						
Coal	42	1	34	57	5	13
Tar	4	5	1	2	6	6
St. Vincent—						
Coal	4	4	9	2	6	4
Trinidad and Tobago—						
Coal (b)	1,080	1,841	(c) 177	1,066	827	1,160
Coke	227	199	71	65	153	304
British Honduras—						
Coal and coke	22	60	32	14	—	19
Tar and pitch	(d) 14	(d) 4	753	489	966	n.a.
Falkland Islands—						
Coal	917	421	516	6	—	26
Coke	116	42	827	173	95	75
Aden—						
Coal (b)	21,649	28,290	25,048	13,747	(c) 52	1,287
Coke	56	—	(c) 3	24	1	—

(a) "Ex-warehoused for ships. stores." (See exports.)

(b) Including imports for bunkering purposes.

(See exports.)

(c) Excess of re-exports.

(d) Tar only.

(e) Including South West Africa.

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

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES (cont.)						
Ceylon—						
Coal (c)	284,390	184,287	143,811	276,572	172,121	173,345
Coke	1,099	4,857	3,843	2,459	2,730	1,238
Tar and pitch	108	(b) 53	(b) 73	(b) 98	(b) 64	(b) 288
Cyprus—						
Coal (c)	1,788	501	2,828	822	645	648
Coke	445	822	1,460	407	27	—
Briquettes	540	—	—	—	—	—
Tar and pitch	21	14	15	2	4	2
Hong Kong—						
Coal	204,619	246,280	435,661	246,108	199,303	205,086
Coke	1,638	3,860	7,264	5,715	5,763	5,226
India—						
Coal	1	160	405	507	1,329	1,832
Coke	2,000	2,000	1,982	123	1,070	20
Tar and pitch	431	314	352	5,674	87	34
Malaya—						
Anthracite	15,793	25,594	19,302	18,634	15	27,623
Bituminous (c)	49,419	41,569	60,728	70,871	1,875	1,100
Coke	4,334	4,577	5,536	4,376	2,780	4,656
Tar	400	413	320	230	473	492
Pakistan—						
Coal and coke	1,101,000	1,063,000	1,328,000	1,316,000	1,396,666	955,979
Tar and pitch	(f) 2,190	(f) 729	103	4,484	2,536	3,380
Australia (e)—						
Coal	2,051	(d) 4,776	4,117	6,191	9,335	7,526
Coke	10,981	5,900	3,444	8,206	9,778	6,845
Tar and pitch	1,495	114	82	4,770	2,790	3,098
Fiji—						
Coal	21,240	17,629	15,692	6,098	3,262	10,083
Coke	415	227	315	165	218	183
Tar	(a) 470	24	169	22	74	158
New Guinea (e)—						
Coal and coke	967	(£2,236)	35	56	27	35
New Zealand—						
Coal	77	7,129	12,209	12,370	116	82
Coke	194	254	310	293	—	57
Tar	3,999	r 5,963	r 11,514	r 10,860	10,528	6,417
Pitch	713	r 1,224	r 997	1,540	975	75
North Borneo—						
Coal and coke	93	79	294	53	79	84
Papua (e)—						
Coal and coke	175	650	62	49	33	51
Sarawak—						
Coal and coke	9	15	20	14	14	27
Tar	65	96	108	r 137	136	197
Western Samoa—						
Coal and coke	7	9	98	6	7	126
Irish Republic—						
Anthracite	50,230	70,535	56,617	41,953	41,966	61,496
Bituminous (c)	1,658,811	1,730,787	1,356,181	1,159,610	1,312,262	1,512,014
Coke	17,398	26,296	16,718	14,399	6,540	6,801
Patent fuel	76,128	80,832	58,555	33,731	12,467	4,044
Tar	14,485	12,511	14,972	16,724	17,892	8,609

(a) Including bitumen from petroleum.

(b) Tar only.

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

(d) Excess of re-exports.

(e) Years ended June 30 of that stated.

(f) Year ending March 31 following that stated. Figure for 1954 relates to trade by sea only.

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

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
Austria—						
Coal	3,807,761	4,039,900	4,314,199	4,489,481	3,664,557	3,223,949
Brown coal	193,089	188,629	237,415	305,424	237,181	118,564
Coke	343,138	412,754	430,510	529,579	593,855	714,939
Briquettes	516,477	554,497	553,694	601,742	536,947	481,691
Tar, pitch, etc.	3,267	3,239	5,045	5,341	4,739	11,511
Belgium-Luxemburg						
E.U.—						
Coal	3,938,049	3,809,594	5,041,838	5,484,679	5,557,903	5,027,969
do. coke	3,068,752	3,597,422	3,660,885	3,859,965	3,625,196	3,641,645
do. briquettes	34,525	45,028	74,599	93,377	106,777	103,154
Brown coal	1,461	392	415	2,027	3,298	304
do. do. coke	117	130	232	369	1,223	34
do. do. briquettes	228,175	243,552	232,906	247,855	254,243	213,410
Tar	14,961	12,065	13,900	12,637	8,580	7,836
Pitch	68,996	46,115	72,667	69,248	31,002	2,735
Czechoslovakia—						
Coal	<i>n.a.</i>	<i>n.a.</i>	3,396,000	2,215,000	2,535,000	2,318,000
Denmark—						
Coal	4,311,339	5,015,661	3,280,582	3,087,659	2,639,299	2,809,220
Coke	2,128,835	2,247,427	2,195,050	1,280,325	1,484,467	1,086,104
Briquettes	18,625	25,038	24,234	17,111	20,029	9,241
Brown coal briquettes	190,488	231,534	176,929	119,420	196,044	129,258
Tar	601	—	8	66	42	90
Pitch	192	139	149	242	234	275
Faroe Islands—						
Coal	7,175	7,136	4,108	1,425	1,422	<i>n.a.</i>
Finland—						
Anthracite	95,320	132,111	160,492	192,688	246,105	191,651
Other coal	1,670,143	2,043,644	1,963,870	2,365,443	1,844,763	2,335,229
Coke	472,157	424,343	507,118	452,949	345,446	280,355
Tar	501	512	—	142	—	175
France—						
Anthracite	1,573,722	1,691,432	2,126,937	2,442,415	2,269,912	1,925,654
Bituminous	6,307,846	6,287,565	11,224,544	12,928,824	8,333,720	7,585,886
Lignite	—	377	1,831	1,395	922	169
Coke	3,127,826	4,625,563	4,637,778	5,006,125	4,388,705	4,014,797
Coal briquettes	435,120	456,207	472,677	864,146	456,437	418,416
Brown-coal briquettes	465,324	576,813	538,819	569,499	589,159	553,429
Tar and pitch	463,272	395,913	373,059	419,877	426,521	375,098
Germany (Federal)—						
Coal	8,222,897	15,640,814	18,131,033	21,087,887	15,926,954	8,248,236
Brown coal	686,201	890,165	990,743	937,762	895,505	982,526
Coke	361,543	523,523	793,122	476,825	233,124	434,502
Coal briquettes	32,145	106,697	303,966	163,772	57,652	131,505
Brown-coal briquettes	34,943	26,115	18,886	20,884	57,704	62,500
Tar and pitch	19,865	56,815	143,642	59,221	85,420	78,371
Germany (East)—						
Coal	6,402,000	6,238,000	5,552,000	5,662,000	7,280,000	7,956,000
Brown coal	4,325,000	4,070,000	4,503,000	4,084,000	5,166,000	5,759,000
Coke	2,563,000	2,572,000	2,235,000	2,647,000	2,413,000	2,559,000
Greece—						
Coal	233,495	301,728	r 214,590	r 254,699	214,886	164,266
Coke	16,035	16,100	17,202	22,723	31,039	24,683
Tar	308	831	385	302	688	720
Hungary—						
Coal	914,000	780,549	827,911	2,388,523	1,124,149	1,208,000
Coke	r 1,116,763	r 1,217,344	r 1,067,251	r 1,085,358	1,127,718	1,002,200
Pitch	11,237	2,870	3,770	13,699	11,832	<i>n.a.</i>
Iceland—						
Coal	42,783	60,364	42,017	33,291	29,811	29,806
Coke	1,307	2,034	3,321	1,499	3,054	2,182
Tar	71	76	102	120	103	111

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

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Italy—						
Anthracite	669,225	1,049,636	1,002,693	1,145,821	} 8,658,672	7,669,797
Bituminous	8,096,861	8,904,990	9,344,070	10,027,813		
Lignite	60,733	31,446	31,072	21,128	50,173	13,890
Coke	48,632	56,663	26,263	113,487	257,470	160,736
Briquettes	168,559	181,054	242,687	262,450	194,550	236,409
Tar	22	635	2,495	6,370	4,473	2,529
Pitch	1,142	940	244	480	101	212
Netherlands—						
Coal	<i>a</i> 7,066,395	<i>a</i> 7,709,628	<i>a</i> 8,556,655	<i>a</i> 8,692,925	6,983,495	6,404,506
Brown coal	76,495	13,086	—	—	8,518	10,244
Coke	354,193	428,530	429,761	492,656	289,316	405,990
Briquettes	284,258	482,509	449,439	317,905	176,795	131,744
Brown-coal briquettes	283,952	306,163	304,923	300,756	301,312	261,490
Tar	13,132	20,322	18,089	16,164	14,437	26,452
Pitch	5,591	9,883	13,857	14,822	17,697	7,675
Norway—						
Coal (<i>b</i>)	608,264	681,439	616,279	489,829	397,480	263,106
Coke	299,766	456,902	718,685	569,379	501,580	598,680
Briquettes	5,741	9,195	19,157	378	2,513	1,006
Tar and pitch, etc. ..	13,439	10,239	6,475	7,195	11,100	31,690
Portugal—						
Anthracite	8,677	15,908	12,700	15,251	9,991	6,049
Other coal	429,454	461,305	435,287	508,863	355,851	285,994
Coke	20,020	20,306	19,116	22,218	24,687	33,718
Briquettes	3,328	6,315	5,078	3,103	2,710	650
Tar and pitch	6,576	7,330	8,683	6,295	4,710	4,150
Spain—						
Anthracite	8	985	—	26	3,751	7,818
Bituminous	693,065	504,697	324,642	615,683	1,085,122	815,139
Coke	124,497	109,393	3,518	2	—	5,997
Briquettes	17,604	—	—	—	—	—
Tar and pitch	59,053	62,450	88,951	62,281	59,420	48,249
Sweden—						
Anthracite	39,018	46,241	73,495	61,121	29,977	31,535
Other coal	2,937,000	3,093,000	2,463,000	2,630,000	1,657,000	1,700,469
Coke	1,975,000	2,473,000	2,789,000	2,368,000	1,583,000	1,491,078
Briquettes	157,404	162,475	104,975	36,353	62,898	23,991
Tar, pitch, etc.	8,853	11,667	10,979	9,940	10,601	14,151
Switzerland—						
Coal	1,799,584	1,802,640	2,215,745	2,383,739	1,645,461	1,648,646
Lignite	901	462	754	786	307	610
Coke	651,264	621,744	717,521	723,164	493,860	471,705
Briquettes	300,155	320,527	336,766	321,514	302,311	234,507
Tar and pitch (<i>c</i>) .. .	84,140	78,024	84,735	80,570	88,477	100,581
U.S.S.R.—						
Coal	<i>n.a.</i>	8,526,700	6,289,400	3,369,100	3,765,600	4,314,800
Coke	<i>n.a.</i>	443,300	591,400	365,100	667,300	620,100
Yugoslavia—						
Anthracite	60,546	67,191	96,487	107,104	96,633	101,904
Other coal	546,436	920,139	1,303,509	1,594,481	976,268	1,171,206
Coke	213,772	94,102	42,779	19,532	45,148	237,727
Coke dust	981	21,732	133	—	10,513	—
Tar and pitch	78	497	394	642	2,474	5,515
Algeria—						
Coal	267,312	307,528	296,135	483,250	504,462	406,818
Coke	116	95	111	253	265	197
Briquettes	2,990	3,793	4,083	4,568	4,629	3,435
Tar and pitch	3,477	997	1,417	4,514	7,090	8,478

(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	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
Angola—						
Coal	25,360	29,169	14,155	27,443	15,206	10,915
Coke	2,773	1,618	1,547	4,558	2,239	2,609
Belgian Congo—						
Coal	118,243	166,455	127,507	135,480	149,363	138,619
Coke	74,784	97,101	105,479	108,969	76,884	68,029
Briquettes	25,008	27,170	46	1	402	664
Pitch	103	324	244	361	248	191
Tar	726	305	795	208	263	1,173
Cameroon (French)—						
Coal, coke, etc.	48	232	568	997	527	174
Canary Islands—						
Coal	35,442	21,928	21,515	28,590	21,937	24,577
Cape Verde Islands—						
Coal (a)	6,901	8,317	—	21	1,505	665
Ceuta—						
Coal (a)	93,574	38,090	34,012	23,407	14,872	6,589
Egypt—						
Coal	121,157	100,783	64,147	r 118,086	74,892	42,879
Coke	13,190	9,009	12,707	65,494	202,955	43,885
Briquettes	6,030	591	10,494	650	26	—
Tar and pitch	105	95	—	—	12	289
Ethiopia (b)—						
Coal	13,888	11,064	10,644	92	8,614	5,571
French Equatorial Africa—						
Coal, coke, briquettes .. .	1,083	2,981	64	152	127	230
French Somaliland—						
Coal	—	709	305	69	175	12
French Togoland—						
Coal and briquettes .. .	855	41	107	7	—	—
French West Africa—						
Coal	15,961	167	3,179	479	275	217
Briquettes	44,321	28,815	31,900	99	230	2,065
Coke	845	684	838	476	584	513
Malagasy Republic—						
Coal	13,333	5,150	541	(c) 4,266	(c) 10,949	(c) 12,591
Coke	2,012	74	29	101	44	32
Briquettes	3,008	4,295	3,245	(d)	(d)	(d)
Tar and pitch	153	139	128	140	70	93
Melilla—						
Coal	16,991	17,073	17,908	22,457	11,129	6,988
Morocco—						
Coal	129,987	107,649	96,639	(e) 70,045	78,158	63,329
Coke	8,381	12,652	4,710	(e) 6,773	8,525	9,470
Tar	3,337	6,147	3,543	25	37	1
Pitch	947	1,212	1,143	704	2,204	1,259
Mozambique—						
Coal	r 222,491	r 239,343	r 258,172	r 273,490	307,521	276,323
Coke	627	774	573	660	1,081	1,026
Tar, pitch and asphalt. . .	3,451	3,176	3,893	5,242	8,939	6,052
Reunion—						
Coal and briquettes .. .	5,359	344	193	254	3,007	n.a.
Sudan—						
Coal	27,774	46,396	27,017	32,227	47,679	31,113
Coke	(f) 15	2,594	—	—	—	n.a.
Tar	—	10	46	30	204	n.a.

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

(b) Years ended September 10 of that stated.

(c) Including briquettes.

(e) Morocco (Southern) only.

(d) Included with coal.

(f) Excess of re-exports.

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

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Tunisia—						
Coal	59,226	36,358	33,902	76,622	19,625	23,360
Coke	11,121	9,425	13,239	10,635	16,481	5,366
Tar and pitch	765	756	11	180	288	7
Cuba—						
Coal	35,543	31,884	19,985	141,162	47,784	<i>n.a.</i>
Coke	20,155	46,797	38,285	39,893	40,647	<i>n.a.</i>
Tar and pitch	87	99	161	152	383	<i>n.a.</i>
Dominican Republic—						
Coal, coke, briquettes, etc.	1,457	510	938	280	1,427	628
French West Indies—						
Guadeloupe—						
Coal	1,263	8	1,160	1,125	888	<i>n.a.</i>
Martinique—						
Coal	27	1,706	848	554	15	<i>n.a.</i>
Greenland—						
Coal	10,848	16,906	10,958	13,177	9,464	<i>n.a.</i>
Guatemala—						
Coal	272	167	124	403	460	<i>n.a.</i>
Coke	160	65	107	53	89	<i>n.a.</i>
Honduras—						
Coal	92	190	102	206	166	147
Coke	21	11	27	19	21	4
Mexico—						
Coal	51,625	40,797	53,098	55,677	39,302	56,632
Coke	14,265	10,098	4,608	3,171	3,026	3,522
Tar	309	228	260	324	237	209
Nicaragua—						
Coal	4	15	19	21	19	15
Coke	33	89	47	5	49	42
Panama Republic—						
Coal	92	257	273	200	105	150
Salvador—						
Coal	191	2,358	127	179	138	176
Coke	195	161	285	130	110	130
Tar	64	93	87	50	79	56
St. Pierre and Miquelon—						
Coal	10,555	9,429	9,133	12,200	12,133	9,302
United States—						
Anthracite	5,206	152	41	1,016	3,896	2,351
Bituminous	112,734	206,301	226,546	214,869	166,187	134,532
Lignite	1,069	79	80	—	40	—
Slack and culm	63,696	94,645	90,964	112,369	107,827	200,033
Coke	103,376	112,805	116,924	105,313	108,497	110,049
Briquettes	213	—	284	759	164	165
Tar and pitch	53,961	67,439	47,230	16,984	21,649	25,337
Argentina—						
Coal	1,482,373	1,158,648	1,330,120	1,137,247	1,331,941	1,300,305
Coke	45,012	95,706	151,756	133,766	101,600	68,055
Tar and pitch	148	159	117	299	1,238	526
Bolivia—						
Coal and coke	8,879	4,293	10,176	5,085	1,333	572
Brazil—						
Coal	760,308	1,102,676	878,712	879,900	557,602	624,458
Coke	34,678	5,033	—	47,079	45,256	65,999
Chile—						
Anthracite	498	618	100	—	<i>n.a.</i>	<i>n.a.</i>
Other coal	248,000	136,290	32,912	283,760	98,095	23,506
Coke	—	645	837	866	569	632
Tar and pitch	5,692	4,739	5,051	3,513	5,529	8,776

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

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
Colombia—						
Coal	314	384	80	—	5	204
Coke	49	11	—	48	83	40
Tar	6	5	—	—	—	—
Peru—						
Coal	10	5	67	20	—	10
Coke	189	1,082	834	641	655	690
Tar	9	19	89	68	67	49
Surinam—						
Coal	120	2,427	13	10	6	n.a.
Uruguay—						
Coal	83,434	90,332	99,092	93,370	100,174	49,719
Coke	4,849	1,552	3,152	1,963	1,891	1,474
Venezuela—						
Coal	683	r 791	1,233	1,118	684	n.a.
Burma—						
Coal	258,849	189,882	236,532	262,930	335,981	411,527
Coke	10,267	9,209	13,184	15,876	5,396	11,917
Formosa—						
Coke	6,798	3,371	3,562	4,474	4,375	4,884
Tar and pitch	2,949	2,229	2,547	2,031	2,643	2,432
Indo-China—						
Coal	11,149	(a)	(a)	(a)	(a)	(a)
Indonesia—						
Coal	35,929	33,009	42,423	36,741	20,830	41,655
Coke	2,133	214	827	4,264	150	3,624
Tar	785	134	425	822	98	147
Iraq—						
Coal	798	2,295	781	1,465	437	n.a.
Coke	300	895	600	290	1,660	n.a.
Tar and pitch	2,352	1,161	844	266	70	n.a.
Israel—						
Anthracite	29,217	17,350	26,422	27,640	20,969	13,990
Other coal	2,519	1,882	897	1,297	596	10,120
Coke	4,068	—	—	—	3,801	6,409
Japan—						
Anthracite	362,405	363,175	457,158	724,749	497,460	511,210
Other coal	3,188,502	2,553,548	3,303,660	5,605,450	4,074,973	4,380,232
Tar and pitch	58	288	43	23,790	4,694	9,323
Korea—						
Coal	886,997	1,048,417	957,623	729,669	760,106	370,207
Lebanon—						
Coal	4,859	861	2,558	4,046	1,999	4,410
Coke	1,727	2,263	1,762	1,423	3,101	2,376
Briquettes	197	5,897	7,744	—	—	2,740
Philippine Republic—						
Coal	—	—	136	1	155	49
Coke	4,055	6,090	7,573	5,643	6,353	8,114
Tar	448	376	288	239	272	193
Portuguese India—						
Coal	14,003	3,609	3,366	11,340	n.a.	n.a.
Coke	112	49	50	59	n.a.	n.a.
Syria—						
Coal	2,542	1,949	1,385	1,522	906	1,533
Coke	1,223	717	784	1,104	1,408	1,829
Briquettes	2,018	1,618	2,617	1,881	1,672	1,762
Thailand—						
Coal	82,785	36,809	9,100	15,847	12,450	11,536
Coke	3,416	815	1,071	2,389	1,658	1,399
Tar	147	70	45	55	3	—
Vietnam—						
Coal	(b)	25,731	59,950	47,938	63,469	15,333

(a) See under Vietnam.

(b) See under Indo-China.

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

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
French Polynesia—						
Coal	1,968	1,772	984	9	1,009	<i>n.a.</i>
New Caledonia—						
Coal	169,799	163,461	264,048	180,859	160,742	144,570
Coke	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	174,042	67,956	32,084

COBALT
PRODUCTION OF COBALT ORE
(Metal content)

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Northern Rhodesia (a) ..	1,071	662	1,021	1,357	1,644	2,027
Uganda	—	—	(e) 140	(e) 500	(e) 500	(e) 660
Canada (b)	1,006	1,482	1,570	1,751	1,210	1,472
Australia (c)	11	12	12	12	15	14
OTHER COUNTRIES						
Belgian Congo (d) ..	8,473	8,432	8,945	8,061	6,398	8,298
Morocco	724	744	632	447	910	1,242
United States	891	1,165	1,605	1,850	2,162	1,337
New Caledonia	—	—	—	—	128	180
TOTAL*	13,000	13,000	15,000	15,000	14,000	17,000

*Including estimates for cobalt contained in complex ores known to have been produced in Finland, Greece, Norway, Spain and Sweden. Ores containing cobalt are also known to have been produced in the U.S.S.R., China and Korea.

- (a) Refined metal plus estimated cobalt content of cobalt alloy and other cobalt.
- (b) Metal recovered from smelter products plus cobalt contained in cobalt ores and residues exported.
- (c) Estimated cobalt content of cobalt oxide.
- (d) Electrolytic cobalt plus recoverable cobalt in cobalt alloy.
- (e) Stockpiled.

METAL PRODUCTION OF COBALT

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Northern Rhodesia ..	588	411	822	1,073	1,048	1,141
OTHER COUNTRIES						
France	237	301	368	258	394	301
Germany (Federal) (a) ..	849	881	865	853	978	1,380
Norway (c)	168	203	242	274	319	384
Belgian Congo	5,277	4,993	5,029	5,525	4,717	5,926
United States (b)	1,252	1,585	2,216	1,954	1,624	1,099

Cobalt and its compounds are also known to have been produced in the United Kingdom, Canada, Belgium and the U.S.S.R. Annual production in the U.S.S.R. has been estimated as 900 long tons.

- (a) Obtained chiefly from pyrite sinter imported from 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
1954 ..	540	1957 ..	662
1955 ..	722	1958 ..	580
1956 ..	694	1959 ..	605

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

EXPORTS OF COBALT, ETC.

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Cobalt	42	23	31	877	30	52
Cobalt oxide	151	255	249	314	394	316
Other compounds	353	407	404	534	557	684
Rhodesia and Nyasaland—						
Cobalt	563	445	724	1,078	934	1,329
Cobalt alloy	1,215	531	384	170	—	27
Canada—						
Cobalt ore (<i>Co content</i>)	1	—	7	7	—	—
Cobalt	509	689	640	962	457	304
Cobalt alloys	2	6	5	6	4	1
Cobalt oxides and salts	373	732	576	277	233	491
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Cobalt (<i>b</i>)	1,344	1,686	1,078	1,110	1,091	2,325
France—						
Ingots and scrap	39	7	19	34	18	62
Cobalt salts	4	4	1	4	1	6
Germany (Federal)—						
Cobalt (<i>a</i>)	493	362	286	381	453	796
Cobalt oxide	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	108	65
Norway—						
Cobalt	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	314
Sweden—						
Cobalt	1	—	7	—	—	3
U.S.S.R.—						
Cobalt	<i>n.a.</i>	122	137	145	206	196
Belgian Congo—						
Cobalt	4,972	4,937	4,449	4,828	5,139	6,311
Cobalt-copper ingots	7,929	7,377	9,730	7,094	4,274	5,162
Morocco—						
Cobalt ore	8,700	7,223	6,298	4,727	8,196	10,845
United States—						
Cobalt ore, alloys and scrap	1,369	1,704	1,363	477	785	310

(a) Including alloys and scrap.

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

IMPORTS OF COBALT, ETC.

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Cobalt	1,350	930	734	738	707	927
Cobalt alloys	1,193	224	134	76	49	28
Cobalt oxide	386	793	591	386	317	561
Canada—						
Ore	5	17	1	(800 lbs.)	—	—
Cobalt oxide	3	4	5	5	7	11
Hong Kong—						
Cobalt oxide	21	63	31	2	34	36
Australia (a)—						
Cobalt ores, etc.	5	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Cobalt ingots, etc.	8	21	34	43	38	58
Cobalt oxide	5	10	21	11	36	15
Cobalt salts	37	27	55	21	51	76
New Zealand—						
Cobalt salts	154	260	<i>r</i> 280	<i>r</i> 291	315	340
OTHER COUNTRIES						
France—						
Cobalt ore	3,980	5,103	4,673	3,801	6,593	6,920
Ingots and scrap	17	21	74	44	18	49
Cobalt oxide	22	37	55	58	141	85
Germany (Federal)—						
Cobalt ore	20	269	46	—	1	—
Cobalt (b)	109	117	227	227	414	338
Cobalt oxide	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	185	176
Italy—						
Cobalt (b)	88	64	98	102	91	182
Portugal—						
Cobalt oxide	3	3	—	1	3	5
Sweden—						
Cobalt	65	148	110	129	79	158
Yugoslavia—						
Cobalt	3	2	4	4	19	29
Mexico—						
Cobalt oxide	<i>n.a.</i>	<i>n.a.</i>	22	31	12	30
United States—						
Cobalt ore (c)	2,452	2,522	2,136	903	—	—
<i>Co content</i>	1,055	1,100	901	371	—	—
Cobalt metal	6,352	6,935	5,792	7,220	7,017	8,968
Cobalt oxide	192	479	370	289	374	697
Cobalt salts	158	161	178	163	105	124
Argentina—						
Cobalt	156	87	13	29	28	46
Brazil—						
Cobalt oxide	42	11	24	24	23	24
Japan—						
Cobalt ore	10	—	4	25	—	—
Ingots, slabs and grains	221	154	470	474	281	913
Cobalt oxide	63	100	140	122	132	197

(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 cobalt alloy.

COPPER
PRODUCTION OF COPPER ORE
(Metal content)

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Great Britain	16	16	9	11	13	11
Kenya	—	—	(f) 600	(f) 1,500	(f) 1,400	(f) 1,400
Northern Rhodesia (d) ..	391,704	352,956	397,736	428,851	393,814	534,673
Southern Rhodesia	296	1,060	1,725	2,881	7,527	10,729
South West Africa	14,004	21,038	27,864	26,899	28,000	31,000
Tanganyika	368	580	1,140	1,052	1,581	1,081
Uganda	—	—	2,884	10,467	10,000	10,500
Union of South Africa ..	41,641	r 43,963	45,762	r 45,501	48,763	49,729
Canada (g)	270,296	291,066	316,839	320,633	308,137	352,583
Cyprus (e)	26,838	23,374	35,265	38,996	32,691	35,695
India	7,722	7,880	8,208	8,404	8,170	7,900
Australia	r 41,256	r 47,312	r 54,547	r 59,255	75,018	94,404
Fiji	—	—	n.a.	100	n.a.	n.a.
TOTAL	r 794,100	r 789,200	r 892,600	r 944,600	915,000	1,130,000
Irish Republic	—	—	—	—	(i) 4,700	(i) 4,700
OTHER COUNTRIES						
Austria	3,068	2,654	6,961	2,341	2,467	2,474
Bulgaria	(i) 5,900	(i) 6,200	5,200	7,100	7,000	(i) 11,000
Finland (d)	19,921	21,165	20,713	25,615	28,411	28,900
France (d)	—	26	17	7	350	253
Germany—						
Federal Republic	2,323	1,192	962	1,073	1,032	1,414
East (b)	20,400	21,000	21,000	16,300	18,000	20,000
Italy	r 1,207	r 1,382	r 2,128	r 3,482	3,637	3,631
Norway	13,374	13,767	14,722	14,988	15,626	14,132
Poland (c)	4,700	5,400	7,000	7,400	(b) 7,900	(b) 8,800
Portugal	424	537	952	553	731	708
Spain (b)	16,000	16,000	17,000	17,000	17,000	17,000
Sweden	13,004	15,424	16,461	17,790	18,262	17,035
U.S.S.R. (b)	r 350,000	r 350,000	r 400,000	r 400,000	430,000	450,000
Yugoslavia	31,642	28,659	31,328	32,931	34,679	34,054
Algeria	211	66	143	425	389	51
Angola	1,499	963	1,444	1,678	1,506	1,726
Belgian Congo (h)	220,257	231,394	246,016	238,418	233,810	277,639
French West Africa	81	136	96	—	—	41
Morocco	750	735	724	620	1,086	1,200
Cuba	15,571	17,417	14,327	13,666	12,493	8,877
Mexico (d)	53,940	53,812	53,998	59,643	63,937	56,369
United States (d)	745,957	891,580	985,854	970,410	874,401	736,470
Bolivia (a)	3,604	3,442	4,373	3,857	2,741	2,650
Brazil (i)	—	650	790	1,200	1,200	700
Chile (d)	357,912	426,673	482,004	477,952	459,755	537,597

(a) Exports.

(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): 1954—18,900; 1955—22,200; 1956—26,300; 1957—26,800; 1958—22,800; 1959—25,200.

(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	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Ecuador	—	15	—	—	—	<i>n.a.</i>
Peru	37,818	42,718	45,506	56,271	52,772	47,453
Burma (b)	100	150	130	130	130	150
China (a) (b)	8,000	10,000	12,000	15,000	30,000	30,000
Formosa (c)	809	1,295	1,795	2,010	1,651	1,708
Japan	65,228	71,845	77,230	80,417	80,212	82,957
Korea (South) (b)	350	600	700	450	350	250
Philippine Republic	14,122	17,185	26,537	39,744	46,287	48,739
Turkey (a)	24,815	23,423	24,372	24,016	22,174	23,468
TOTAL	2,040,000	2,300,000	<i>r</i> 2,500,000	<i>r</i> 2,500,000	2,500,000	2,500,000
WORLD'S TOTAL	2,830,000	3,100,000	<i>r</i> 3,400,000	3,500,000	3,400,000	3,600,000

Copper ore is also known to have been produced in Albania, Czechoslovakia, Hungary, Iran and Israel.

(a) Smelter.

(b) Estimated.

(c) Copper content of concentrates and cement copper.

METAL PRODUCTION OF COPPER

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Northern Rhodesia ..	378,656	342,234	383,555	416,573	375,146	531,384
Uganda	—	—	150	7,465	10,831	11,943
Union of South Africa ..	40,314	42,641	43,466	42,374	47,684	48,074
Canada (a)	229,609	253,178	279,421	283,362	285,200	326,839
India	7,161	7,281	7,628	7,848	7,840	7,642
Australia	38,047	37,439	49,030	r 50,403	64,608	68,475
TOTAL	693,787	682,773	763,250	r 808,025	791,309	994,357
OTHER COUNTRIES						
Albania	646	924	567	910	<i>n.a.</i>	<i>n.a.</i>
Austria (b)	8,908	9,571	9,900	8,755	9,397	10,400
Bulgaria	(g) 3,000	(g) 4,000	4,500	4,981	6,025	(g) 5,000
Finland	22,214	21,949	22,113	25,419	30,244	32,090
Germany—						
Federal Republic ..	49,400	51,900	54,400	63,300	69,000	63,200
East (e)	25,000	25,000	25,000	20,000	20,000	20,000
Italy	125	914	r 382	r 131	<i>n.a.</i>	<i>n.a.</i>
Norway	12,687	13,520	15,190	15,578	17,291	18,780
Poland	16,745	15,474	19,996	19,612	17,095	17,200
Portugal	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	4,281	4,853
Spain	5,693	5,783	6,197	5,892	4,960	6,835
Sweden	16,355	18,089	16,672	19,171	19,882	24,930
U.S.S.R. (c) (e) ..	r 350,000	r 350,000	r 400,000	r 400,000	430,000	450,000
Yugoslavia	29,817	27,814	28,920	33,202	33,140	34,694
Angola	1,705	769	1,273	1,600	1,369	1,396
Belgian Congo	220,257	231,394	246,016	238,418	233,810	277,639
Mexico	41,151	42,585	46,508	55,412	59,919	54,558
United States (d) ..	844,553	987,970	1,099,421	1,051,915	954,511	751,603
Bolivia	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	542
Chile	332,873	399,368	452,014	443,515	430,492	504,412
Peru	26,052	31,127	30,588	40,486	37,859	33,950
China (e)	8,000	10,000	12,000	15,000	30,000	30,000
Formosa	718	1,156	1,481	1,681	1,637	1,774
Japan (f)	63,707	79,760	91,019	107,251	101,769	152,396
Korea (South)	257	323	893	780	791	736
Turkey	24,815	23,423	24,372	24,016	22,174	23,468
TOTAL	r 2,100,000	2,400,000	r 2,600,000	2,600,000	2,500,000	2,500,000
WORLD'S TOTAL ..	2,800,000	3,100,000	r 3,400,000	r 3,400,000	3,300,000	3,500,000

(a) Copper content of blister and anode copper.

(b) Includes secondary metal.

(c) May include secondary metal.

(d) In addition, secondary metal was recovered as follows (long tons): 1954—794,917; 1955—883,039; 1956—830,950; 1957—751,685; 1958—711,954; 1959—830,866.

(e) Estimated.

(f) In addition, secondary metal was recovered as follows (long tons): 1954—41,102; 1955—31,767; 1956—33,144; 1957—32,726; 1958—20,234; 1959—38,512

(g) United States Bureau of Mines' estimate.

EXPORTS OF COPPER, ETC.

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Bars and ingots ..	20,090	15,393	32,091	35,325	55,539	77,403
Scrap ..	—	5	433	232	418	203
Plates, sheets, etc. ..	8,533	8,532	7,158	10,505	10,808	9,456
Rods and wire ..	23,555	40,405	69,266	75,342	98,567	32,033
Tubes ..	5,161	6,643	10,517	13,802	16,103	13,506
Sulphate ..	39,193	39,171	47,811	28,427	26,515	31,086
Kenya—						
Unwrought (a) ..	—	—	—	2,474	3,328	3,167
Rhodesia and Nyasaland—						
Ore and concentrates ..	1,429	4,919	6,604	14,362	23,184	31,543
Blister ..	205,655	172,898	152,596	171,169	146,273	160,178
Electrolytic ..	178,595	168,905	215,083	237,441	256,360	354,206
South West Africa—						
Ore (Cu content) ..	—	—	436	1,361	827	1,927
Copper-lead ore (Cu content) (b) ..	12,301	21,038	r 30,123	r 26,638	27,516	30,154
Tanganyika—						
Lead concentrates (Cu content) ..	368	580	1,138	1,052	1,581	1,081
Uganda—						
Unwrought (a) ..	—	—	—	7,404	10,967	11,797
Union of South Africa—						
Copper-gold concentrates (Cu content) ..	154	137	503	1,580	754	441
Copper matte (Cu content) ..	1,209	834	1,130			
Ingots, bars and blocks	40,860	38,606	39,039	38,482	43,985	42,853
Canada—						
Ore, matte, etc. (Cu content) ..	42,332	37,112	36,602	41,561	27,068	28,634
Ingots, etc. ..	139,402	136,785	156,111	177,494	200,569	198,604
Scrap, slag, etc. ..	9,755	16,333	13,030	10,965	9,899	5,568
Rods, sheets and strips ..	7,186	14,995	8,869	8,646	10,525	11,312
Tubes ..	1,526	2,113	1,770	1,884	2,307	3,768
Wire ..	(£321,800)	(£656,177)	(£706,484)	(£201,213)	(£54,866)	(£145,526)
Cyprus—						
Concentrates, cement copper and cupreous pyrites (Cu content) ..	26,838	23,374	35,265	38,996	32,691	35,695
Hong Kong—						
Crude and refined, unwrought (a) ..	—	8	—	—	—	—
Scrap ..	627	1,392	1,434	6,363	252	515
Bars, sheets, tubes and wire (a) ..	25	112	36	25	750	113
India—						
Ingots, etc. ..	136	483	214	—	—	—
Malaya—						
Ore ..	—	—	1,351	1,600	—	2,163
Ingots, sheets, wire, etc. ..	93	57	51	76	103	90
Sulphate ..	3	6	19	6	2	6
Australia (c)—						
Ore, etc. (Cu content) ..	991	4,404	3,949	8,145	8,745	10,703
Matte ..	—	—	960	—	493	—
Blocks and ingots ..	12,787	5,123	15,112	15,598	16,538	21,094
Scrap ..	553	5	2	2	—	377
Bars, sheets, tubes, etc. ..	1,241	548	1,465	1,440	1,073	1,085
Wire ..	801	154	51	680	440	346

(a) Including alloys.

(b) Copper content of lead-copper-zinc ores and concentrates.

(c) Years ended June 30 of that stated.

EXPORTS OF COPPER, ETC. (cont.)

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES (cont.)						
Fiji—						
Ore	—	—	597	—	983	97
New Zealand—						
Scrap (a)	368	896	2,017	1,870	1,370	268
Papua—						
Ore and concentrates ..	<i>n.a.</i>	<i>n.a.</i>	21	20	<i>n.a.</i>	<i>n.a.</i>
Irish Republic—						
Ore and concentrates ..	—	—	—	—	—	26,893
Scrap	1,662	1,716	1,550	1,087	1,063	1,086
OTHER COUNTRIES						
Austria—						
Ore	1,339	—	2	—	—	—
Rough copper	687	1,290	1,418	801	777	1,301
Scrap	2	114	135	105	141	67
Bars, sheets, wire, etc. . .	48	165	430	404	390	1,015
Sulphate	331	530	1,030	1,517	1,076	59
Belgium-Luxemburg						
E.U.—						
Rough copper	125,015	122,485	133,648	117,486	133,943	163,371
Scrap	954	1,102	614	528	2,377	3,387
Bars, sheets, wire, etc. . .	20,904	22,809	22,963	21,514	27,400	22,914
Tubes and pipes	2,951	3,168	3,721	3,751	3,388	3,361
Sulphate	20,422	14,806	17,618	23,057	17,111	21,670
Denmark—						
Rough copper	521	303	436	200	205	173
Scrap (a)	2,239	2,950	3,012	1,781	2,361	2,955
Bars, sheets, wire, etc. . .	135	620	1,556	62	42	153
Finland—						
Rough copper and scrap	1,420	1,284	1,315	2,146	10,718	9,045
Sheets and wire	2,861	1,563	1,498	375	2,001	1,581
France—						
Ore	31	—	—	—	—	—
Unwrought	1,678	115	647	470	585	4,563
Scrap	986	622	403	62	58	119
Bars and wire	3,948	3,732	2,185	3,229	5,985	10,695
Plates and sheets	910	819	696	701	867	1,272
Tubes and pipes	544	570	965	1,015	1,865	3,545
Sulphate	5,606	9,942	5,494	5,886	5,366	5,013
Germany (Federal)—						
Ore	—	—	2,485	30	—	—
Unrefined	390	3,556	2,434	600	1,480	1,104
Refined	40,462	43,641	47,310	45,767	63,195	87,433
Scrap (a)	450	1,394	1,280	1,368	4,519	6,257
Bars, sheets, wire, etc. (a)	26,529	33,969	52,176	52,147	70,206	81,724
Sulphate	4,643	4,490	3,929	5,248	4,875	4,534
Greece—						
Ore	89	—	—	—	—	<i>n.a.</i>
Italy—						
Ore	—	—	—	1	—	3,272
Ingots and alloys	35	—	—	45	1	115
Scrap	1	1	1	—	—	772
Bars, sheets, wire (a) .. .	3,486	4,124	4,520	5,487	8,036	8,671
Sulphate	2,000	2,577	3,925	3,250	6,610	1,772

(a) Including alloys.

EXPORTS OF COPPER, ETC. (cont.)

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Netherlands—						
Ingots and bars ..	218	700	771	853	795	1,480
Scrap ..	9,217	12,971	12,384	10,282	11,694	14,396
Sheets, tubes and wire ..	14,559	9,984	3,564	3,864	11,633	6,539
Sulphate ..	17	10	27	33	27	18
Norway—						
Ore ..	11,688	12,358	14,704	12,841	10,538	10,316
Matte ..	11,694	12,582	13,842	13,005	12,759	17,552
Burnt cupreous pyrites	5,000	7,362	17,146	—	—	<i>n.a.</i>
Rough copper ..	12,024	12,560	14,393	14,212	16,635	17,394
Scrap ..	(a) 2,515	(a) 3,665	(a) 2,680	(a) 4,535	(a) 2,219	337
Portugal—						
Rough copper, sheets, etc. ..	17	296	967	434	12	157
Sulphate ..	18	109	80	67	245	248
Spain—						
Ingots and bars (a) ..	—	—	13	—	5	1,180
Sheets, tubes, wire (a) ..	—	—	1	—	4	53
Sweden—						
Rough copper ..	18,136	13,884	14,115	15,797	12,682	14,782
Scrap ..	623	1,812	1,626	342	69	112
Sheets, tubes, wire, etc. ..	21,324	21,640	18,416	20,917	24,391	26,534
Sulphate ..	1	2	—	5	—	2
Switzerland—						
Ore, filings and turnings	1,406	1,234	1,749	2,256	2,665	2,575
Bars, ingots, etc. (a) ..	924	1,368	1,095	1,466	2,698	3,310
Scrap (a) ..	434	389	493	394	210	386
Sheets, tubes, wire, etc. (a) ..	9,770	7,484	8,471	9,428	10,455	12,213
U.S.S.R.—						
Crude (including wire)	<i>n.a.</i>	36,100	51,600	59,600	43,100	57,900
Sulphate ..	<i>n.a.</i>	8,000	7,900	9,000	8,000	8,300
Yugoslavia—						
Blister ..	—	—	—	—	1	—
Electrolytic ..	10,845	6,145	1,253	197	—	—
Rods, sheets, tubes, etc. ..	598	3,077	1,405	4,609	2,255	1,112
Sulphate ..	1,534	888	672	9,142	133	776
Algeria—						
Ore ..	921	943	—	431	2,436	797
Bars, sheets and wire ..	1,382	1,802	1,106	1,451	1,785	1,387
Scrap ..	613	260	175	284	231	766
Sulphate ..	69	—	1	1	—	2
Angola—						
Ore ..	—	—	5	—	—	—
Ingots ..	1,669	1,158	1,473	1,764	1,513	1,584
Belgian Congo—						
Blister ..	111,151	116,357	126,078	114,160	105,871	121,615
Refined ..	112,033	111,272	123,594	123,901	130,344	155,801
Copper-cobalt ingots ..	7,929	7,376	9,730	7,094	4,274	5,162
French West Africa—						
Ore ..	—	787	433	—	—	—
Morocco—						
Ore ..	3,699	2,680	1,790	1,674	9,898	4,619
Old and scrap ..	203	445	63	79	13	631
Cuba—						
Ore ..	87,577	64,261	60,591	82,735	49,692	<i>n.a.</i>
Scrap ..	663	1,108	978	517	399	<i>n.a.</i>
Mexico—						
Ore, concentrates, etc. ..	42,296	36,824	39,014	21,843	20,143	3,547
Rough copper ..	41,617	44,910	45,338	43,329	42,493	41,466

(a) Including alloys.

EXPORTS OF COPPER, ETC. (cont.)

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
United States—						
Ores, matte, blister, etc. <i>(Cu content)</i>	2,115	11,515	12,248	13,978	10,246	2,662
Refined ingots, etc. . . .	192,813	178,410	199,199	308,951	343,632	141,909
Scrap	67,632	27,801	22,929	43,740	19,519	9,572
Sheets, rods, wire, etc. . . .	4,636	6,893	10,542	11,645	4,640	3,296
Pipes and tubes	1,070	1,153	1,384	1,209	1,436	714
Sulphate	26,574	33,377	26,943	30,039	6,471	2,384
Bolivia—						
Ore, etc. <i>(Cu content)</i> .. .	3,604	3,442	4,373	3,857	2,741	2,080
Chile—						
Ores and concentrates	28,049	26,621	20,909	24,418	35,114	34,172
Precipitate	1,673	1,633	3,097	4,100	3,252	3,300
Ingots—						
Blister	153,700	172,587	206,053	232,271	246,759	253,499
Refined	79,700	101,135	87,001	63,023	52,190	69,242
Electrolytic	112,000	105,708	123,283	149,948	101,236	146,793
Bars and sheets	4,430	9,054	r 5,468	r 311	1,631	9,923
Wire	7,195	13,466	6,879	1,187	19,642	19,349
Sulphate	181	523	157	—	n.a.	n.a.
<i>Cu content (a)</i>	369,304	405,626	445,027	477,431	425,217	501,262
Peru—						
Ore <i>(Cu content)</i>	10,504	9,325	11,895	13,957	12,559	12,918
Matte, etc. <i>(do.)</i>	367	441	575	558	642	n.a.
Bars, etc. <i>(do.)</i>	25,633	30,357	30,253	34,838	38,631	33,198
Precipitate <i>(do.)</i>	406	517	488	485	1,185	955
Burma—						
Matte	n.a.	n.a.	153	419	216	396
Formosa—						
Ore	3,884	7,431	8,657	9,547	10,580	12,992
Japan—						
Ingots and blocks	6,356	11,833	2,767	1,657	1,335	1,451
Bars, rods and tubes	4,392	6,179	1,154	564	4,859	4,423
Plates, sheets and wire .. .	14,666	17,814	761	906	1,238	1,142
Scrap	—	—	—	—	8	—
Sulphate	105	818	11	11	51	27
Philippine Republic—						
Ore and concentrates .. .	1,330	24,668	87,524	125,961	178,061	156,279
Copper-gold-silver concentrates	59,872	64,183	48,329	36,589	22,421	7,398
Scrap	157	39	241	—	184	581
Turkey—						
Ore	3,937	3,665	—	—	—	15,887
Ingots	11,521	11,864	18,892	14,406	12,495	10,874

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

IMPORTS OF COPPER, ETC.

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Bars, ingots, etc.—						
Electrolytic ..	244,323	244,611	242,880	292,637	308,128	269,386
Other refined ..	16,972	30,555	34,099	45,238	51,370	49,324
Blister ..	117,636	121,354	106,290	115,182	95,878	95,233
Scrap ..	9,363	13,424	1,414	1,343	438	575
Plates, sheets, etc. ..	51	476	43	15	36	8
Rods ..	2	1,930	1,875	1,911	2,803	2,179
Tubes ..	10	13	75	146	110	66
Wire ..	36	7	13	51	90	118
Ghana—						
Rods, sheets, tubes, etc. (a) ..	330	263	382	228	268	277
Wire ..	71	70	299	85	166	110
Kenya—						
Crude, refined, alloys and scrap ..	75	279	52	51	1	1
Bars, sheets, tubes and wire ..	21	205	281	86	70	102
Sulphate ..	4	43	13	138	14	54
Mauritius—						
Bars, rods, sheets, wire, etc. ..	29	57	37	67	107	65
Nigeria—						
Rods, sheets, tubes, etc. (a) ..	213	429	422	416	421	396
Wire ..	72	141	76	205	185	209
Rhodesia and Nyasaland—						
Ingots, bars and rods ..	347	466	425	344	245	232
South West Africa—						
Bars, sheets, pipes, wire, etc. ..	90	(b)	(b)	(b)	(b)	(b)
Tanganyika—						
Crude, refined, alloys and scrap ..	62	33	66	10	1	—
Sheets, tubes, wire, etc. ..	257	92	197	104	92	110
Sulphate ..	31	41	69	41	31	18
Uganda—						
Sheets, tubes, wire, etc. ..	21	22	32	35	21	23
Union of South Africa—						
Bars, ingots and slabs ..	13,629	(c) 12,738	(c) 17,127	(c) 18,616	(c) 23,407	(c) 14,082
Plates, sheets and tubes ..	677	(c) 906	(c) 614	(c) 620	(c) 505	n.a.
Wire ..	318	(c) 42	(c) 33	(c) 16	(c) 33	n.a.
Canada—						
Blocks, pigs and ingots ..	1,521	31	2,269	3,727	1	93
Scrap ..	555	2,010	5,596	3,308	1,298	3,351
Bars, sheets, wire, etc. ..	2,388	2,035	3,374	3,054	5,072	3,014
Sulphate ..	949	1,011	921	909	1,005	1,168
British West Indies—						
Barbados—						
Bars, sheets, tubes, wire ..	(£7,840)	(£21,257)	(£22,347)	80	78	107
Jamaica—						
Sulphate ..	2,238	3,204	4,523	4,021	2,608	1,479
Trinidad and Tobago—						
Sulphate ..	23	57	37	28	12	31
Cyprus—						
Bars, sheets, wire, etc. ..	104	60	43	57	50	84

(a) Including alloys.

(b) Included with Union of South Africa.

(c) Including South West Africa.

IMPORTS OF COPPER, ETC. (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES (cont.)						
Hong Kong—						
Crude and refined, unwrought (a) ..	7	21	124	528	20	63
Scrap	33	135	636	6,103	381	675
Bars, sheets, tubes and wire (a)	186	276	286	403	954	438
India—						
Ingots, etc.	18,618	15,247	29,949	43,466	47,861	45,750
Scrap	1,641	419	473	1,048	2,155	3,031
Sheets, tubes, wire, etc.	157	189	459	3,095	1,366	1,225
Sulphate	1,067	628	1,247	1,738	431	30
Malaya—						
Ingots, sheets, wire, etc.	783	1,134	1,068	1,383	819	617
Sulphate	162	197	252	252	47	140
Pakistan—						
Ingots, cakes, blocks, etc.	(b) 144	(b) 51	35	220	264	712
Scrap	(b) —	(b) 24	—	—	3	—
Sheets, tubes, wire, etc.	(b) 49	(b) 277	1,418	4,061	1,651	1,428
Sulphate	(b) 40	(b) 41	63	156	52	18
Sarawak—						
Bars, sheets, tubes, wire	61	32	61	r 64	48	46
Australia (c)—						
Ore and concentrates ..	—	30	28	—	—	—
Blocks and ingots	2,989	28,569	4,691	3,251	1,550	2,342
Scrap	23	(d) 40	2	10	30	16
Rods, sheets and tubes ..	3,110	4,902	2,475	1,472	2,281	1,684
Wire (a)	77	96	6	5	21	27
Sulphate	678	337	311	165	175	175
New Zealand—						
Bars, sheets, pipes, etc. .	4,544	r 4,187	r 2,823	r 4,277	5,072	4,537
Wire	1,104	r 1,163	r 1,839	r 2,376	3,012	2,615
Sulphate	460	450	393	r 1,088	288	207
Irish Republic—						
Bars, sheets, wire, etc. .	1,591	1,241	1,077	915	1,334	1,430
Sulphate	2,199	1,925	1,932	1,838	2,272	2,423
OTHER COUNTRIES						
Austria—						
Ore	—	17	80	149	—	137
Rough copper	14,466	12,591	11,666	13,988	17,820	16,957
Scrap	1,190	3,382	2,340	737	1,408	158
Bars, sheets, wire, etc. .	622	574	526	495	590	1,107
Sulphate	—	1	3	—	1	—
Belgium-Luxemburg						
E.U.—						
Ore	494	2,916	3,257	1,016	3,521	5,561
Matte and rough copper	172,672	179,572	189,888	177,231	181,649	194,949
Scrap	7,484	13,004	11,661	8,649	9,463	15,809
Bars, sheets, wire, etc. .	1,559	1,324	1,156	600	743	641
Tubes	681	554	449	595	550	468
Sulphate	16	23	37	29	33	82

(a) Including alloys.

(b) Years ended March 31 following that stated.

(c) Years ended June 30 of that stated.

(d) Excess of re-exports.

IMPORTS OF COPPER, ETC. (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
Denmark—						
Rough copper	3,143	4,219	2,647	3,983	3,938	4,653
Scrap (a)	88	202	108	259	57	224
Bars, sheets, wire, etc.	12,198	12,829	9,430	10,656	13,149	13,997
Sulphate	1,856	1,712	1,700	2,219	2,415	2,669
Finland—						
Rough copper	2,211	1,323	193	893	527	1,045
Bars, sheets, tubes and wire	642	728	473	380	732	705
Sulphate	49	31	45	15	115	49
France—						
Ore	—	43	2,773	—	—	—
Unwrought—						
Unrefined	8,902	6,034	4,915	5,293	4,800	4,969
Refined	126,690	162,492	162,184	178,389	212,163	158,522
Scrap	1,341	1,845	1,569	3,737	4,615	1,171
Bars and wire	267	411	240	364	1,148	779
Plates and sheets	59	35	40	94	31	27
Tubes and pipes	36	44	26	51	98	81
Sulphate	2,661	5,970	5,726	3,654	3,786	—
Germany (Federal)—						
Ore	148,995	156,047	162,457	174,692	134,419	134,865
Burnt cupreous pyrites	<i>n.a.</i>	840,559	1,070,968	953,579	1,103,666	1,198,628
Matte	9,257	11,128	12,694	13,394	10,264	9,562
Unrefined	55,264	62,679	68,567	86,819	101,883	95,457
Refined	117,170	139,966	142,740	192,277	227,787	242,835
Scrap (a)	93,076	91,762	54,070	41,413	37,324	34,987
Bars, sheets, wire, etc. (a)	17,436	15,454	11,838	8,243	17,087	31,969
Sulphate	1,914	3,414	381	534	376	676
Greece—						
Rough copper	311	85	225	<i>r</i> 991	1,826	2,752
Sulphate	3,046	6,116	4,805	2,696	4,840	6,017
Hungary—						
Crude	6,501	8,094	<i>r</i> 8,759	<i>r</i> 10,460	12,038	15,825
Sulphate	13,001	10,119	14,205	14,481	14,847	10,679
Iceland—						
Bars, tubes, wire, etc.	279	311	196	214	230	302
Italy—						
Ingots, etc. (a)	101,701	87,392	108,265	119,283	105,266	110,659
Scrap	17,922	11,990	11,898	12,811	8,172	5,211
Bars, sheets and wire (a)	2,216	1,197	971	1,441	1,718	1,564
Sulphate	5,739	1,724	2,018	3,337	4,026	4,169
Netherlands—						
Ingots and bars	28,154	25,328	22,385	19,564	28,302	25,992
Scrap	2,218	3,534	2,587	2,312	4,007	4,275
Sheets, tubes and wire	16,186	17,080	18,501	16,219	12,729	13,976
Sulphate	1,072	1,102	970	1,128	1,861	2,464
Norway—						
Rough copper	4,891	4,419	3,858	4,329	5,257	3,428
Copper-nickel matte	34,624	37,111	43,795	45,823	48,398	54,159
Scrap (a)	65	149	158	426	377	168
Bars, sheets, tubes and wire (a)	10,439	9,406	9,540	10,312	11,302	11,576
Sulphate	100	96	306	342	294	291
Portugal—						
Ore and concentrates	—	—	24	1,389	1,863	3,780
Ingots, wire, etc.	5,052	4,646	8,896	14,119	13,162	7,727
Sulphate	5,012	1,364	2,916	2,939	4,998	5,962

(a) Including alloys.

IMPORTS OF COPPER, ETC. (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
Spain—						
Ore	—	—	—	3,761	1,123	2,020
Precipitate and scrap (a)	2,014	3,236	5,854	2,362	4,225	4,590
Ingots and bars (a) ..	10,844	7,000	17,665	16,230	16,839	18,046
Sheets, tubes and wire (a)	162	151	368	1,064	279	383
Sulphate	2,755	779	1,637	244	2,330	1,519
Sweden—						
Ore	49,899	31,563	19,617	28,419	29,849	31,718
Rough copper	57,799	49,920	50,919	47,694	52,794	63,589
Scrap	1,633	3,748	1,455	1,429	721	575
Sheets, rods, wire, etc. ..	1,814	2,075	3,682	2,374	3,679	3,836
Sulphate	356	708	901	783	507	913
Switzerland—						
Ore, filings and turnings	2,729	696	112	713	152	184
Bars, ingots, etc. (a) ..	28,180	26,292	34,309	38,455	36,036	30,104
Scrap (a)	1,322	1,170	739	438	405	540
Sheets, tubes, wire, etc. (a)	7,754	9,612	8,268	9,110	8,407	10,025
Yugoslavia—						
Electrolytic	—	—	—	3,167	6,278	2,193
Rods, sheets and tubes ..	147	67	40	564	83	64
Algeria—						
Rough copper	3,355	3,168	2,978	4,381	3,370	4,272
Scrap	11	57	—	—	1	2
Bars, sheets, wire, etc. ..	222	162	212	277	699	805
Sulphate	3,652	7,944	5,345	6,585	5,465	3,787
Angola—						
Bars, sheets and wire ..	245	110	115	129	111	153
Sulphate	20	10	16	14	43	62
Belgian Congo—						
Bars, sheets, wire, etc. ..	491	581	364	343	188	93
Egypt—						
Crude and scrap	906	599	1,046	384	2,386	2,426
Bars, sheets, tubes, etc.	510	263	376	206	1,054	497
Sulphate	3,150	441	1,448	595	1,701	73
Malagasy Republic—						
Bars, sheets and wire ..	131	86	114	104	78	103
Morocco—						
Bars, sheets and wire ..	718	671	709	693	803	441
Sulphate	220	94	64	147	73	83
Mozambique—						
Bars, sheets and wire (a)	142	136	434	284	254	301
Sudan—						
Sulphate	134	559	640	101	436	642
Tunisia—						
Bars, sheets and wire ..	152	281	116	156	170	(a) 376
Sulphate	1,187	518	564	723	666	699
Costa Rica—						
Bars, sheets and wire (a)	303	66	38	47	78	109
Sulphate	9,618	14,535	6,523	8,454	1,392	1,393
Cuba—						
Ingots and bars	163	130	148	r 442	2,148	n.a.
Sheets, tubes and wire ..	1,377	1,883	1,668	r 1,737	1,910	n.a.
Dominican Republic—						
Sulphate	n.a.	n.a.	704	342	n.a.	278
Guatemala—						
Sheets and wire	216	246	365	828	562	n.a.
Sulphate and carbonate	5,649	5,543	5,421	5,456	2,843	n.a.
Honduras—						
Sulphate	9,534	7,318	7,237	4,522	1,019	17

(a) Including alloys.

IMPORTS OF COPPER, ETC. (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
(cont.)						
Mexico—						
Ingots	11	63	18	80	65	30
Bars, sheets, alloys, etc.	317	273	228	190	120	138
Sulphate	575	217	146	25	1	1
United States—						
Cu content of—						
Ore and concentrates	107,621	100,463	72,089	r 74,386	81,069	8,404
Matte, precipitate, etc.	4,829	5,702	4,641	r 4,787	4,398	6,351
Blister	229,815	226,512	246,504	r 268,871	123,779	182
Refined ingots, bars and plates	192,070	180,636	171,261	144,919	111,276	211,879
Scrap	4,243	11,229	4,831	r 5,217	5,223	2,664
Sheets, tubes, wire, etc.	9,348	19,199	26,256	25,707	37,647	48,382
Sulphate	—	250	584	109	181	515
Argentina—						
Ingots, electrolytic	12,969	13,988	2,892	21,682	33,450	19,631
Sulphate	175	327	1	—	—	—
Brazil—						
Ore	—	459	388	1,132	—	—
Ingots	34,419	14,174	19,422	26,638	25,687	19,823
Rough	2,439	509	242	575	1,031	121
Plates and sheets	1,833	381	135	69	7	6
Tubes, pipes and wire	2,101	301	83	176	117	153
Sulphate	5,361	2,525	4,697	3,500	4,456	2,553
Colombia—						
Ingots, bars and sheets	703	528	1,039	1,415	601	698
Sulphate	6,254	4,670	7,690	7,963	2,366	11
Peru—						
Bars, sheets, etc. (a)	267	343	r 296	362	290	295
Sulphate	558	649	1,549	621	258	125
Uruguay—						
Bars, sheets and alloys	n.a.	n.a.	n.a.	867	183	514
Venezuela—						
Sheets	173	134	150	338	228	n.a.
Sulphate	112	39	64	94	92	n.a.
Formosa—						
Ingots	717	168	689	—	—	230
Sheets and wire	126	38	143	67	52	1
Indonesia—						
Bars and sheets	3,516	2,320	507	721	703	317
Tubes, pipes and wire	796	639	794	884	887	376
Sulphate	503	598	529	1,511	237	253
Iran (b)—						
Ingots, bars and sheets (a)	1,830	n.a.	960	2,766	4,489	n.a.
Scrap	625	n.a.	321	519	435	n.a.
Iraq—						
Bars, sheets and wire	384	323	538	798	939	n.a.
Japan—						
Ore and concentrates	28,310	43,941	128,702	217,431	208,576	330,574
Matte	101	7	25	3,259	14	6
Ingots and slabs	7,620	4	21,900	49,614	9,721	14,183
Scrap	37,817	1,841	23,241	55,749	2,669	1,444
Bars, sheets, wire	1	102	224	16,841	290	68
Philippine Republic—						
Ingots, bars, etc. (a)	8	n.a.	29	46	502	1,310
Sheets, tubes, wire	n.a.	n.a.	674	1,108	2,304	1,361
Sulphate	127	105	244	272	173	80
Turkey—						
Ingots, bars and sheets	616	171	136	173	54	191
Sulphate	1,212	797	1,530	2,071	342	2,097

(a) Including alloys.

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

DIAMONDS
PRODUCTION OF DIAMONDS†

Metric carats

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Basutoland	—	450	620	2,500	6,664	8,713
Ghana (b)	2,135,459	2,258,270	2,539,429	3,124,825	3,131,695	3,076,072
Sierra Leone	400,076	418,077	(a) 647,797	(a) 863,202	(a) 1,490,037	(a) 1,205,302
Southern Rhodesia	2	—	—	—	—	—
South West Africa	683,560	812,848	988,653	996,965	903,576	930,659
Tanganyika	326,009	325,523	358,717	390,971	521,064	643,277
Union of South Africa	2,858,688	2,628,917	2,585,728	2,578,975	2,702,250	2,838,332
British Guiana	30,073	33,300	29,816	29,037	33,091	62,328
India	1,955	1,787	1,499	790	1,540	682
Australia	1,564	731	383	312	158	37
TOTAL	6,437,386	6,479,903	7,152,642	7,987,577	8,790,075	8,765,402
OTHER COUNTRIES						
Angola—						
Gem	422,572	441,789	443,280	524,933	593,833	610,733
Industrial	299,034	301,588	296,755	339,439	407,403	404,955
Belgian Congo—						
Gem	527,737	628,298	626,969	630,923	669,329	658,909
Industrial	12,092,377	12,413,199	13,383,509	15,015,807	16,004,145	14,196,261
French Equatorial Africa	152,528	136,958	145,837	109,231	85,697	86,571
French West Africa	} 217,650	} 318,520	} 389,880	} 247,138	} 164,315	} 187,900
Guinea .. ..							116,000	n.a.
Venezuela	96,983	141,147	93,833	122,597	90,004	94,986
TOTAL*	14,100,000	14,700,000	15,700,000	17,300,000	18,400,000	17,000,000
WORLD'S TOTAL*	20,500,000	21,200,000	22,900,000	25,300,000	27,200,000	26,000,000

†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.

(a) Exports.

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

	Companies	African diggers
1954 ..	1,000,480	1,134,979
1955 ..	1,186,827	1,071,443
1956 ..	1,151,160	1,388,269
1957 ..	1,455,249	1,669,576
1958 ..	1,279,043	1,852,652
1959 ..	1,335,614	1,740,458

PRODUCTION OF DIAMONDS†

£ sterling

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Basutoland (c)	—	3,000	4,000	17,000	65,000	63,000
Ghana (b)	4,277,000	5,452,000	7,948,765	9,428,465	8,272,508	8,446,455
Sierra Leone	1,400,265	1,567,787	(a)3,457,385	(a)6,425,170	(a)7,183,787	(a)6,808,568
Southern Rhodesia	30	—	—	—	—	—
South West Africa	12,987,648	13,809,000	c 18,043,000	c17,983,000	c16,525,000	c16,342,000
Tanganyika (b)	3,070,451	3,228,212	2,864,714	3,401,448	4,463,782	5,274,871
Union of South Africa (c) ..	13,398,280	12,671,880	12,665,931	14,569,000	15,392,000	15,667,000
British Guiana (b)	247,158	280,952	268,344	289,487	309,024	625,000
India	35,576	30,400	24,525	12,600	28,000	17,000
Australia	10,400	5,600	3,067	3,224	1,572	118
TOTAL	35,426,000	37,049,000	45,280,000	52,130,000	52,240,000	53,240,000
OTHER COUNTRIES						
Angola	4,147,000	4,272,000	4,266,000	6,161,000	7,134,000	7,382,000
Belgian Congo—						
Gem (b)	1,510,000	1,675,000	1,474,000	1,625,000	1,791,000	1,751,000
Industrial (b)	7,608,000	7,863,000	9,116,000	11,011,000	12,766,000	11,249,000
French Equatorial Africa	1,053,000	822,000	890,000	711,000	(b) 487,000	(b) 458,000
French West Africa (b)	} 881,500	1,098,900	1,224,000	883,000	{ 718,000	{ 442,000
Guinea (b)					{ 366,000	{ n.a.
Venezuela	377,000	(b) 946,000	(b) 924,000	(b)1,207,000	(b) 570,000	(c) 500,000
TOTAL*	19,000,000	20,000,000	21,000,000	25,000,000	27,000,000	25,000,000
WORLD'S TOTAL*	54,000,000	57,000,000	66,000,000	77,000,000	79,000,000	78,000,000

†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)		
			Gem	Industrial	Total
1954 .. ..	..	..	45,610,010	16,543,115	62,153,125
1955 .. ..	..	..	50,253,946	24,034,749	74,288,695
1956 .. ..	..	..	50,542,240	24,003,770	74,546,010
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

EXPORTS OF DIAMONDS

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Ghana Ct.	2,125,708	2,276,531	2,518,563	2,930,901	3,280,970	3,116,57
£	4,272,684	5,529,624	7,920,446	8,979,359	8,661,512	8,659,16
Sierra Leone .. Ct.	443,598	401,423	647,797	863,202	1,490,037	1,205,30
£	1,699,875	1,400,478	3,457,385	6,425,170	7,183,787	6,808,568
South West Africa—						
Uncut Ct.	550,987	(c)	(c)	(c)	(c)	(c)
£ (S.A.)	12,068,070	(c)	(c)	(c)	(c)	(c)
Tanganyika—						
Gem diamonds.. Ct.	167,927	174,868	170,679	170,674	231,312	250,176
£	2,581,073	2,704,718	2,211,326	2,518,917	3,436,889	3,506,623
Industrial diamonds Ct.	161,985	147,739	186,859	201,928	284,141	304,494
£	526,168	494,719	653,810	723,787	978,166	1,041,114
Union of South Africa—						
Uncut Ct.	818,559	b 1,451,928	b 1,372,727	b 1,435,478	b 1,336,403	b 1,677,633
£ (S.A.)	7,141,295	b23,824,074	b23,360,827	b24,685,787	b20,572,157	b26,272,792
Cut and polished Ct.	109,556	109,901	112,885	118,569	117,420	136,243
£ (S.A.)	8,044,458	8,148,402	8,526,112	10,136,932	10,110,481	11,745,220
British Guiana .. Ct.	30,384	33,227	30,871	28,455	31,899	62,586
£	249,716	280,342	277,841	283,685	288,349	627,603
Hong Kong—						
Cut and polished Ct.	n.a.	n.a.	n.a.	n.a.	n.a.	34,531
£	256,020	822,454	1,007,045	776,916	1,205,231	1,760,903
Industrial .. £	7,976	4,721	25	—	1,940	5,889
Malaya—						
Cut and polished £	11,198	40,420	61,590	52,317	43,305	52,035
Australia (a)—						
Gem diamonds Ct.	513	59	229	—	165	—
£	12,524	4,560	1,833	—	1,312	—
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Cut and polished Ct.	666,107	830,041	890,232	793,876	761,785	949,921
£	22,892,117	28,994,898	32,387,209	30,258,537	28,863,065	35,893,793
Industrial, rough and bort Ct.	1,895,269	2,748,573	3,280,064	3,330,772	3,087,066	4,930,275
£	7,246,730	11,965,277	16,747,401	13,809,646	12,318,793	19,563,436
France—						
Uncut £	132,651	110,983	532,015	83,000	243,465	87,468
Cut £	2,565,427	1,180,676	1,128,806	1,147,000	1,198,417	185,461
Industrial diamonds £	45,735	57,253	56,221	34,000	44,385	46,447
Netherlands .. Ct.	n.a.	n.a.	n.a.	1,110,518	981,934	1,529,897
£	6,803,000	7,246,000	8,109,000	10,153,000	9,213,000	13,771,000
Sweden—						
Industrial diamonds £	24,983	34,392	52,284	69,824	96,961	73,090
Angola Ct.	724,190	740,332	743,930	869,105	962,336	1,025,796
£	4,373,649	4,228,582	4,280,584	5,334,132	6,884,943	7,436,467
Belgian Congo—						
Gem diamonds .. Ct.	628,089	637,696	643,092	626,442	713,805	660,594
£	948,252	1,519,120	1,360,613	1,324,483	1,483,744	1,427,626
Industrial diamonds Ct.	11,573,837	12,378,516	12,802,772	14,566,863	14,343,402	15,292,924
£	5,209,186	7,140,091	8,286,627	9,633,213	10,571,279	10,862,308
French Equatorial Africa—						
Ct.	150,676	150,294	147,376	110,550	104,868	89,758
£	1,029,000	1,098,600	1,013,000	803,000	596,000	475,000
French West Africa Ct.	223,478	295,660	388,370	307,900	165,910	230,930
£	907,000	1,021,000	1,221,000	1,100,000	725,000	543,000

(a) Years ended June 30 of that stated.

(b) Including South West Africa.

(c) Included with Union of South Africa.

EXPORTS OF DIAMONDS (cont.)

Exporting Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Guinea Ct. } (a)	(a)	(a)	(a)	(a)	120,000	657,000
Liberia Ct. } £	125,263	203,543	1,025,034	757,138	379,000	1,858,000
United States— } £	180,000	221,000	870,000	446,000	868,575	638,440
Uncut Ct.	15,087	39,631	16,480	10,230	805,500	754,500
Cut Ct.	145,789	281,404	241,150	151,906	14,016	23,058
Industrial diamonds Ct.	7,138	5,825	3,418	6,640	170,013	216,015
Dust Ct.	645,399	981,657	508,231	1,149,343	6,841	18,497
Dust Ct.	9,758	1,168	11,725	54,413	780,114	1,227,409
Dust Ct.	22,364	5,849	34,977	194,908	96,014	178,595
Dust Ct.	90,665	215,787	210,841	199,252	123,194	172,787
Dust Ct.	84,575	184,787	220,014	223,111	134,636	156,562
Brazil Ct.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Venezuela .. Ct.	93,294	115,188	81,246	91,377	72,889	n.a.
Polished .. Ct.	818,200	655,000	779,000	776,000	462,000	n.a.
Industrial .. Ct.	183,832	227,169	263,707	345,401	342,136	477,617
Dust Ct.	5,606,713	7,224,448	8,825,334	12,610,727	12,234,113	16,701,758
Dust Ct.	1,246	2,368	911	9,059	3,866	74,112
Dust Ct.	15,687	22,738	8,144	42,446	30,493	181,723
Dust Ct.	—	40	1,486	14,824	15,537	17,701
Dust Ct.	—	42	1,968	13,884	2,859	6,942

(a) Included with French West Africa.

IMPORTS OF DIAMONDS

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom	Ct. 17,074,599	18,066,889	18,929,124	21,205,460	21,830,104	22,245,175
(b)	£ 39,604,236	46,399,171	50,926,976	57,817,489	57,284,672	62,473,011
Malta—						
Rough diamonds	£ 476	n.a.	n.a.	n.a.	n.a.	n.a.
Cut and polished	£ 5,677	6,620	4,633	2,039	2,038	1,219
Kenya	Ct. 16	—	—	—	—	—
	£ 884	—	—	—	—	—
Union of South Africa—						
Rough diamonds	Ct. (c)	(c)	(c)	(c)	(c)	(c)
Cut and polished	£ (S.A.) (c)	(c)	(c)	(c)	(c)	(c)
Zanzibar	Ct. —	32	152	r 169	356	n.a.
	£ (S.A.) —	1,401	4,709	5,201	11,088	n.a.
Canada—						
Unset	Ct. 44,033	53,307	53,707	27,341	53,948	57,009
	£ 2,255,971	2,889,440	2,832,846	1,693,007	2,889,611	3,879,443
Dust, bort, etc. . .	Ct. 364,135	745,354	1,048,064	671,293	99,346	490,724
	£ 678,411	1,259,624	1,911,353	1,377,340	152,019	926,074
Bermuda	£ (a) 300,311	(a) 285,080	(a) 37,134	251,266	(a) 186,949	(a) 11,818
Ceylon—						
Cut and polished	Ct. 3,471	—	141	—	—	460
	£ 116,374	—	1,815	—	—	1,362
Hong Kong—						
Gem diamonds .. .	Ct. n.a.	n.a.	n.a.	n.a.	n.a.	234,349
	£ 2,050,215	3,796,361	5,313,291	5,851,238	6,111,582	9,028,340
Industrial diamonds	£ 3,513	534	—	—	660	8,445
India	£ 66,031	72,430	254,446	115,081	66,792	65,570
Malaya—						
Cut and polished	£ 29,701	34,596	410,813	374,886	326,476	376,134
Australia (d)—						
Industrial diamonds	Ct. 46,068	148,682	135,505	122,629	177,893	185,720
	£ 84,418	286,835	246,006	221,678	313,852	382,810
Other diamonds	Ct. 18,955	17,213	19,503	15,171	16,195	14,224
	£ 766,136	767,394	821,434	714,973	732,240	674,198
New Zealand—						
Industrial diamonds	£ (N.Z.) 151	392	r 253	299	985	2,579
Other diamonds	£ (N.Z.) 202,926	r 169,535	r 183,003	r 180,818	148,387	149,584

(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 the Union of South Africa, South West Africa, Ghana, Sierra Leone, Tanganyika, British Guiana, Angola and Belgian Congo to the United Kingdom as recorded by those countries. In the case of the Union of South Africa, figures represent diamonds of known South African origin only and exclude those of mixed African origin. The totals, therefore, may not account for all diamonds of South African origin exported to the United Kingdom. No figures are available as to the quantities re-exported from the United Kingdom.

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

	Total imports		Re-exports	
	Carats	£(S.A.)	Carats	£(S.A.)
1954	13,937,464	10,569,635	17,550,773	26,513,320
1955	13,568,121	8,564,785	18,197,643	25,364,292
1956	16,045,898	9,576,021	18,328,251	25,141,452
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	14,981,027	11,351,292	16,384,742	24,323,797

(d) Years ended June 30 of that stated.

IMPORTS OF DIAMONDS (cont.)

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Rough diamonds Ct.	2,561,011	3,731,698	4,127,482	4,439,726	3,412,135	4,491,677
£	18,850,057	24,811,113	30,560,199	32,217,559	25,839,832	36,849,213
Cut diamonds .. Ct.	62,852	103,653	175,385	140,826	90,759	161,523
£	3,059,597	5,127,909	5,867,427	7,565,402	5,711,800	9,142,770
Industrial, rough and bort Ct.	1,713,464	2,764,171	2,380,334	2,305,611	3,057,280	5,699,477
£	2,266,231	4,481,614	4,837,399	4,551,764	6,542,242	12,886,902
France—						
Uncut £	1,596,415	1,872,428	3,013,001	2,521,000	2,578,858	2,399,472
Cut and polished £	2,080,165	1,838,890	2,512,535	2,058,000	1,882,849	2,130,968
Industrial diamonds £	2,011	8,978	5,050	7,000	5,661	6,186
Netherlands .. Ct.						
£	n.a.	n.a.	n.a.	1,271,149	1,169,044	1,841,155
£	5,822,000	6,192,000	7,575,000	9,690,000	9,517,000	12,356,000
Norway Ct.						
£	1,900	2,000	n.a.	n.a.	n.a.	700
£	1,745	1,363	4,427	2,943	2,536	3,872
Sweden—						
Industrial diamonds £	308,534	430,525	363,580	476,400	345,873	314,384
Mexico—						
Uncut Ct.	n.a.	n.a.	8,820	11,805	12,180	16,230
£	n.a.	n.a.	73,319	37,615	101,796	101,418
Industrial diamonds Ct.	33,695	37,955	43,080	13,420	81,600	152,075
£	11,569	7,356	17,230	15,857	4,495	26,051
United States—						
Uncut Ct.	887,702	1,066,637	1,176,832	997,162	1,129,297	1,599,720
£	21,147,248	27,526,398	30,759,347	27,659,498	25,775,948	33,558,505
Cut and polished Ct.	594,772	707,859	693,142	609,775	718,422	928,699
£	22,333,932	26,822,061	27,069,938	23,447,450	24,222,356	30,735,249
Industrial diamonds Ct.	13,807,344	14,952,582	16,165,477	r12,218,301	9,500,632	12,584,232
£	17,088,329	23,538,435	26,175,465	r17,937,087	13,379,252	21,664,817
Dust Ct.	181,418	152,732	238,750	386,203	568,921	489,436
£	178,967	155,957	249,191	425,171	540,985	587,592
Bort, manufactured Ct.	2,389	2,771	9,054	6,057	752	2,504
£	64,685	73,527	118,897	98,566	34,559	61,805
Israel—						
Rough diamonds Ct.	507,384	544,312	640,216	825,668	777,275	1,214,720
£	4,913,447	5,926,861	7,598,653	10,149,779	8,954,492	14,063,948
Industrial diamonds Ct.	934	458	325	13,299	26,111	31,222
£	7,205	5,922	2,973	47,293	65,757	54,098
Bort Ct.	143,690	44,500	42,394	27,844	32,058	17,622
£	118,964	52,913	54,927	43,635	33,412	17,738
Dust Ct.	1,600	2,900	450	6,470	6,318	7,790
£	1,247	1,349	474	8,182	6,466	7,092
Japan—						
Industrial diamonds Ct.	123,005	171,365	650,000	262,520	154,410	190,880
£	296,000	390,000	666,700	1,043,000	674,000	780,000

DIATOMACEOUS EARTH
PRODUCTION OF DIATOMACEOUS EARTH

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom ..	13,798	28,526	23,160	22,811	25,138	(b) 20,000
Kenya	3,258	2,950	4,837	4,229	3,475	3,608
Union of South Africa ..	935	759	567	541	321	354
Canada (a)	4	14	2	107	24	—
Australia	5,439	5,042	5,789	6,221	4,240	4,714
New Zealand	168	556	136	3,158	5,657	7,278
OTHER COUNTRIES						
Austria	3,150	3,966	4,900	3,416	3,648	4,011
Denmark—						
Diatomaceous earth ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	25,360	<i>n.a.</i>
Moler (b)	110,000	120,000	160,000	150,000	140,000	120,000
Finland	1,220	1,838	2,263	1,673	2,067	(e) 2,000
France	60,796	62,523	62,094	77,206	99,954	90,000
Germany (Federal) ..	53,300	60,469	65,081	68,358	63,516	54,261
Iceland	—	—	—	—	787	(e) 790
Italy	9,964	9,496	8,617	26,524	44,489	<i>n.a.</i>
Sweden	904	1,451	1,110	1,176	1,125	<i>n.a.</i>
Yugoslavia	3,963	4,009	(e) 3,900	(e) 3,900	(e) 3,900	(e) 4,000
Algeria	33,300	27,130	23,523	9,250	26,000	25,903
Egypt	156	344	285	605	254	(e) 300
Mozambique	<i>r</i> 39	—	<i>r</i> 6	—	54	<i>n.a.</i>
Costa Rica	531	2,700	6,015	(e) 1,600	1,969	(e) 2,000
Guatemala	(e) 11,500	(e) 14,700	(e) 14,000	18,400	18,920	—
United States	(c) 328,952	(c) 328,952	(c) 328,952	(d) 401,589	(d) 401,589	(d) 401,589
Argentina	<i>n.a.</i>	2,500	2,600	3,646	3,979	(e) 3,900
Chile	28	492	—	—	—	—
Peru	2	1	30	34	104	227
Korea (South)	1,229	3,029	3,493	1,314	462	1,665

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 1954—1956.
- (d) Average annual production 1957—1959.
- (e) United States Bureau of Mines' estimate.

EXPORTS OF DIATOMACEOUS EARTH

Long tons

Exporting Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Kenya	682	887	1,460	1,235	1,415	942
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.	93	127	134	184	139	470
Denmark—						
Diatomaceous earth ..	5,897	8,276	7,674	8,971	6,437	11,070
Moler	90,547	97,990	119,480	109,940	91,314	78,396
Moler bricks	8,787	16,043	18,557	20,860	22,128	21,308
Finland	26	—	—	38	—	—
France (a)	1,375	1,789	1,674	1,675	2,156	2,842
Germany (Federal) (a) ..	1,947	2,549	2,229	2,442	2,106	2,220
Italy	496	1,023	1,300	932	2,599	1,963
Norway	1,635	—	—	11	—	—
Portugal	62	51	51	66	54	133
Sweden	15	26	62	57	69	62
Algeria (a)	14,890	18,425	17,682	16,997	23,376	22,552
Chile	30	112	10	40	n.a.	n.a.
Japan	12	8	64	148	82	77
Korea (South)	n.a.	n.a.	n.a.	n.a.	684	10

(a) Including tripoli, etc.

IMPORTS OF DIATOMACEOUS EARTH

Long tons

Importing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom (a) ..	57,671	64,896	67,340	69,773	59,562	62,674
Union of South Africa ..	695	606	577	803	788	n.a.
Canada	17,297	19,784	18,819	22,579	24,337	24,339
India	n.a.	n.a.	n.a.	289	765	1,266
Australia (b)	1,645	3,944	4,394	4,795	3,204	4,116
New Zealand	717	r 1,291	r 1,121	1,190	1,815	1,451
OTHER COUNTRIES						
Belgium-Luxemburg ..						
E.U.	2,535	2,682	3,324	2,874	2,535	3,457
Denmark	271	350	575	543	486	773
Finland	704	1,414	534	444	330	328
France (c)	7,986	12,074	11,858	10,374	13,981	13,555
Germany (Federal) (c) ..	53,583	57,674	70,629	61,008	55,782	48,685
Iceland	156	1,126	898	954	736	4
Italy	761	613	665	1,065	1,033	1,035
Netherlands	4,296	4,892	5,723	6,111	7,837	7,669
Norway	2,273	4,036	4,152	4,677	3,353	1,568
Portugal	171	242	344	534	521	720
Sweden	755	1,616	2,141	2,318	2,824	4,132
Yugoslavia	81	129	1	7	3	12
Algeria (c)	71	73	45	107	165	196
Egypt	967	1,026	1,380	1,638	1,349	3,266
Morocco	597	344	260	271	313	685
Cuba	2,029	2,754	2,818	2,596	2,775	n.a.
Mexico	2,894	3,848	(c) 3,878	(c) 2,875	(c) 3,202	(c) 1,218
Salvador	10	2	1	59	33	47
Brazil	879	607	785	908	816	743
Chile (c)	r 144	r 12	51	96	n.a.	n.a.
Colombia	429	507	496	701	773	986
Peru (c)	880	850	946	1,091	827	1,255
Venezuela (c)	1,140	1,549	1,147	1,350	1,525	n.a.
Japan	2,009	1,898	1,985	3,131	2,778	3,377
Thailand	n.a.	18	5	4	10	—

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

1954	42,774 long tons
1955	45,484 " "
1956	r 48,462 " "
1957	48,627 " "
1958	37,930 " "
1959	37,963 " "

(b) Years ended June 30 of that stated.

(c) Including tripoli, etc.

FELSPAR
PRODUCTION OF FELSPAR

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Great Britain—						
China stone	63,960	63,305	60,017	58,125	47,826	45,161
Kenya	—	—	—	120	26	—
Nigeria	—	<i>n.a.</i>	14	—	—	—
Southern Rhodesia	—	—	—	—	400	—
Union of South Africa	3,526	6,421	9,729	11,381	7,708	10,447
Canada	14,371	16,207	16,208	18,259	18,203	15,859
Hong Kong	—	120	20	1,156	1,653	1,716
India	6,476	5,230	<i>r</i> 3,909	7,872	8,432	9,740
Australia (<i>a</i>)	16,384	20,833	18,629	8,819	7,016	6,172
OTHER COUNTRIES						
Austria	2,137	2,510	2,677	2,612	2,613	3,445
Belgium	808	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Finland	10,830	12,529	8,799	9,055	13,188	8,191
France	61,000	72,000	71,000	65,000	84,000	79,200
Germany (Federal) (<i>b</i>)	138,322	169,718	172,717	188,268	187,503	186,019
Italy	28,448	52,097	50,479	63,968	55,160	60,443
Norway—						
Unground	16,373	32,178	63,973	51,000	46,000	54,000
Ground	11,390	12,079	15,275	18,800	17,914	18,000
Portugal	—	592	912	1,161	544	837
Spain	8,160	5,041	3,524	4,472	5,199	10,722
Sweden (<i>d</i>)—						
Unground	<i>r</i> 32,328	31,317	31,625	30,380	22,235	} (<i>c</i>) 44,000
Ground	16,166	18,321	20,875	22,588	20,549	
Yugoslavia	—	—	<i>r</i> 5,476	<i>r</i> 9,608	12,466	19,309
Eritrea	6	12	12	394	413	(<i>c</i>) 400
Mozambique	—	—	203	—	—	89
United States (<i>d</i>)	526,590	550,861	560,074	498,057	469,738	548,390
Argentina	4,633	4,509	7,999	4,271	3,621	(<i>c</i>) 3,900
Chile	1,319	821	826	369	(<i>c</i>) 400	(<i>c</i>) 400
Colombia	—	—	—	—	3,937	(<i>c</i>) 9,800
Uruguay	696	381	—	168	267	352
Japan	33,626	30,587	48,665	43,417	44,507	60,196
Philippine Republic	—	—	—	49	74	1,684
TOTAL*	1,000,000	1,110,000	1,170,000	<i>r</i> 1,120,000	1,080,000	1,200,000

*Excluding felspar known to have been produced in Czechoslovakia, Roumania, U.S.S.R., Brazil, China and Vietnam.

Note.—Production of nepheline syenite in Canada was as follows (long tons): 1954—110,419; 1955—130,418; 1956—160,720; 1957—178,586; 1958—179,737; 1959—205,993.

(*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*) Sales.

EXPORTS OF FELSPAR

Long tons

Exporting Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Canada	943	1,273	1,611	3,613	8,889	6,743
India	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	500	235	420
Australia (b)	187	235	340	92	—	10
OTHER COUNTRIES						
Austria	19	20	47	21	35	(a) 249
Finland	6,584	6,348	6,644	5,579	8,485	4,982
France	9,302	11,927	(a) 14,999	(a) 12,930	(a) 12,460	(a) 13,321
Germany (Federal)	(c) 59,597	(c) 52,479	6,077	7,703	7,075	8,706
Italy	3,241	6,011	6,577	6,904	8,756	13,613
Netherlands	3,257	5,700	4,569	3,232	4,556	6,045
Norway—						
Crude	15,988	28,416	41,118	31,379	28,234	33,892
Ground	8,836	8,940	12,333	15,724	15,106	15,205
Sweden	31,527	36,621	39,449	36,224	32,739	(a) 35,774
Yugoslavia	<i>n.a.</i>	<i>n.a.</i>	36	2,601	4,908	8,743
Japan	454	529	874	719	932	955

Note.—Exports of nepheline syenite from Canada were as follows (long tons): 1954—74,957; 1955—105,603; 1956—124,379; 1957—146,734; 1958—142,929; 1959—159,036.

(a) May include some leucite and nephelite.

(c) Including fluorspar.

(b) Years ended June 30 of that stated.

IMPORTS OF FELSPAR

Long tons

Importing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom	17,510	24,458	35,198	31,560	29,323	29,964
Canada	355	122	175	215	1,018	1,037
Australia (a)	219	241	—	—	—	—
New Zealand	85	r 739	r 691	544	796	1,050
OTHER COUNTRIES						
Austria	593	1,240	1,384	1,807	1,959	(b) 2,197
Denmark	3,293	3,961	4,426	3,237	3,819	(b) 4,006
Finland	39	2	3	35	3	780
France	3,279	5,925	(b) 8,251	(b) 4,878	(b) 3,954	(b) 3,506
Germany (Federal)	(c) 21,025	(c) 27,622	21,314	21,034	20,924	24,574
Italy	1,430	2,400	2,410	4,506	3,943	4,879
Netherlands	13,432	16,746	16,093	15,749	20,232	24,673
Sweden	15	13	5	10	7	(b) 111
Algeria	463	401	(b) 498	(b) 380	(b) 694	(b) 415
Belgian Congo (c)	203	300	46	126	158	193
Morocco	(d) 252	(d) 253	(b) 203	(b) 315	(b) 316	(b) 278
Mexico	3,833	5,141	5,187	4,060	2,783	4,156
United States	977	1,359	1,632	4,041	6,657	5,205
Colombia (c)	38	89	53	249	140	147
Venezuela	202	464	1,214	1,596	2,078	<i>n.a.</i>
Israel	1,050	1,066	1,212	1,860	847	1,438
Japan	184	33	—	—	3	—

(a) Years ended June 30 of that stated.

(c) Including fluorspar.

(b) May include some leucite and nephelite.

(d) Including pegmatite.

FLUORSPAR
PRODUCTION OF FLUORSPAR

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom (a) ..	82,685	85,924	91,550	93,274	77,505	83,105
Southern Rhodesia ..	107	429	842	87	4	9
South West Africa ..	2,737	603	—	21	4	126
Swaziland ..	—	—	40	—	—	—
Union of South Africa ..	19,639	29,321	31,308	31,345	43,081	62,783
Canada	106,222	114,387	125,063	59,147	<i>n.a.</i>	<i>n.a.</i>
Australia	19	282	745	700	930	471
OTHER COUNTRIES						
France	73,025	84,699	83,404	107,398	95,628	90,000
Germany—						
Federal Republic ..	179,070	161,558	157,514	136,984	116,041	112,750
East (b)	80,000	80,000	80,000	61,000	64,000	64,000
Italy	75,627	100,174	122,924	142,326	145,461	152,807
Norway	436	283	177	—	—	—
Spain	72,350	65,762	72,572	86,999	89,056	87,784
Sweden (c)	3,697	1,303	871	2,648	2,846	2,854
U.S.S.R. (b)	100,000	100,000	145,000	145,000	160,000	170,000
Morocco	1,060	10	152	—	—	—
Mexico (e)	130,534	178,769	321,533	348,042	277,201	304,631
United States (d) ..	219,311	249,589	294,392	293,636	285,279	165,260
Argentina	<i>n.a.</i>	11,000	13,000	7,629	11,845	(b) 11,800
Bolivia (e)	190	507	267	—	—	—
Burma	—	—	—	—	320	<i>n.a.</i>
China (b)	<i>n.a.</i>	90,000	130,000	145,000	145,000	200,000
Japan	6,046	5,123	7,956	7,627	5,419	5,075
Korea (South)	8,732	9,915	3,064	5,039	1,594	6,025
Turkey	—	21	—	—	79	66
TOTAL	1,300,000	1,400,000	1,700,000	1,700,000	1,600,000	1,600,000

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	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
South West Africa ..	2,735	603	—	—	34	28
Union of South Africa ..	15,188	16,289	17,452	21,721	32,210	51,781
Canada	53,471	52,134	69,982	21,098	6	3,370
OTHER COUNTRIES						
France	3,859	4,035	3,613	1,846	4,801	13,136
Germany (Federal) .. (a)	59,597	52,479	39,307	37,364	14,412	15,658
Italy	40,858	83,872	61,559	77,723	81,521	109,159
Norway	—	—	122	—	—	32
Spain	47,168	59,789	61,108	66,321	64,071	62,157
Sweden	69	14	1	26	241	311
Morocco	144	225	288	—	30	127
Mexico	130,534	178,769	321,533	348,042	277,201	304,631
United States	574	780	175	674	3,012	1,022
Argentina	477	42	162	838	781	854
Bolivia	190	507	267	—	—	—
Korea (South)	15,007	7,585	12,702	10,208	11,607	18,065

(a) Including felspar.

IMPORTS OF FLUORSPAR

Long tons

Importing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Canada	14,500	19,393	25,132	12,988	27,149	21,239
India	n.a.	n.a.	n.a.	7,986	5,330	12,298
Australia (a)	713	543	344	530	401	1,347
New Zealand	10	n.a.	n.a.	n.a.	n.a.	n.a.
OTHER COUNTRIES						
Austria	7,855	10,406	9,548	9,125	9,420	11,070
Denmark	815	1,075	1,004	1,013	934	637
France	296	98	735	4,652	5,590	707
Germany (Federal) .. (b)	21,025	27,622	13,614	10,897	1,422	3,733
Netherlands	8,225	5,939	5,233	7,484	6,300	5,734
Norway	415	1,000	1,131	1,061	978	1,828
Portugal	84	102	248	67	159	198
Sweden	5,078	6,849	8,762	8,675	8,412	8,370
U.S.S.R.	n.a.	73,700	116,500	114,300	127,600	108,100
Yugoslavia	595	1,016	2,173	818	1,810	1,230
Algeria	157	159	262	65	104	156
Belgian Congo (b) ..	203	300	46	126	158	193
Mexico	4	—	1	53	—	4
United States	261,893	324,482	433,529	563,721	350,146	496,206
Brazil	1,552	32	1,011	960	281	831
Colombia (b)	38	89	53	249	140	147
Venezuela	153	82	250	214	540	n.a.
Japan	30,566	30,849	49,641	57,458	36,156	70,625

(a) Years ended June 30 of that stated.

(b) Including felspar.

FULLER'S EARTH

(see also Bentonite)

PRODUCTION OF FULLER'S EARTH

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Union of South Africa ..	1,576	2,233	2,636	1,376	1,759	<i>n.a.</i>
India	1,333	7,838	5,457	4,568	13,483	<i>n.a.</i>
Australia	73	71	235	215	120	136
OTHER COUNTRIES						
United States (a) ..	336,001	330,106	372,960	326,876	319,538	365,734

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

(a) Sold or used by producers.

EXPORTS OF FULLER'S EARTH*

Long tons

Exporting Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Australia (b)	5	—	—	—	—	—
OTHER COUNTRIES						
United States (a) ..	10,700	15,600	<i>n.a.</i>	<i>n.a.</i>	6,626	8,871

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

(a) As recorded by producers.

(b) Year ended June 30 of that stated.

IMPORTS OF FULLER'S EARTH

Long tons

Importing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Union of South Africa ..	940	721	752	951	928	<i>n.a.</i>
Canada	(£43,849)	(£40,862)	(£52,461)	(£55,854)	(£58,625)	(£59,009)
Ceylon	98	110	73	135	51	136
Australia (a)	154	268	233	152	200	177
New Zealand	237	179	200	196	226	343
OTHER COUNTRIES						
Mexico	2,795	3,511	(b) 7,878	(b) 5,350	(b) 5,224	(b) 3,569
Chile	86	11	84	507	<i>n.a.</i>	796
Peru	500	744	606	568	610	450
Venezuela	602	407	417	169	263	<i>n.a.</i>
Philippine Republic ..	322	490	<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) Including other bleaching earths.

GOLD
PRODUCTION OF GOLD
(Metal content)

Fine troy ounces

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Bechuanaland Protectorate	1,216	560	590	190	215	198
Ghana	787,075	687,151	637,755	790,381	852,838	913,141
Kenya	6,607	9,528	13,843	7,388	7,753	9,145
Nigeria	730	688	440	389	644	848
Northern Rhodesia	2,648	2,234	3,367	3,270	3,746	4,704
Southern Rhodesia	535,852	524,701	536,392	536,849	554,838	566,883
Sierra Leone	210	468	102	—	—	—
Swaziland	—	—	252	7	—	—
Tanganyika (a)	73,756	75,135	69,699	63,485	67,777	96,844
Uganda (b)	456	354	237	182	278	334
Union of South Africa	13,237,119	14,601,404	15,896,693	17,030,737	17,656,447	20,065,515
Canada	4,366,440	4,541,962	4,383,863	4,433,894	4,571,347	4,444,845
British Guiana	25,726	22,459	15,024	15,286	16,503	3,164
India	239,168	210,880	r 209,251	r 179,182	170,090	165,400
Malaya (c)	19,900	21,600	19,200	10,600	21,400	25,400
Sarawak	531	463	599	883	864	2,450
Australia	1,117,742	1,049,039	1,029,821	1,083,941	1,103,980	1,085,135
Fiji	72,340	71,849	67,475	73,629	86,794	72,566
New Guinea and Papua	86,728	79,092	79,476	69,029	43,812	46,820
New Zealand	41,713	26,443	26,063	30,195	24,981	36,758
TOTAL	20,616,000	21,926,000	22,990,000	24,330,000	25,184,000	27,540,000
OTHER COUNTRIES						
Finland	16,976	18,808	18,229	21,895	28,499	(d) 35,000
France	15,947	30,286	30,608	35,170	35,560	39,000
Germany (Federal)	4,665	3,839	4,369	3,681	(d) 4,000	(d) 4,000
Greece	7,620	6,655	3,504	7,877	6,940	4,340
Italy	5,973	6,160	5,948	6,346	4,802	3,261
Portugal	22,055	28,807	22,120	23,277	17,742	20,800
Spain	9,760	10,500	11,600	11,900	14,200	15,200
Sweden	110,277	98,767	95,745	97,095	127,600	103,000
Yugoslavia	44,785	41,635	47,808	51,988	55,364	59,640
Angola	35	57	34	—	26	42
Belgian Congo	365,490	369,926	373,849	374,235	356,134	351,090
Cameroon (French)	686	518	429	10,899	2,009	971
Egypt	17,387	6,524	7,697	3,026	1,812	2,500
Eritrea	1,484	161	3,215	4,501	6,430	(d) 6,000

(a) Including gold in lead concentrates exported amounting to 3,051 ounces in 1954, 6,141 ounces in 1955, 11,871 ounces in 1956, 9,192 ounces in 1957, 11,951 ounces in 1958 and 10,391 ounces in 1959.

(b) Exports.

(c) Estimated

(d) United States Bureau of Mines' estimate.

PRODUCTION OF GOLD (cont.)

Fine troy ounces

Producing Country	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Ethiopia	(a) 33,894	22,058	25,700	(b) 25,000	30,000	(b) 39,000
French Equatorial Africa	40,317	43,295	37,854	30,780	23,700	20,300
French West Africa (c)	362	518	388	331	3,100	4,000
Liberia	(d) 1,135	(d) 672	(g) 500	(g) 381	(f) 400	1,401
Malagasy Republic	1,363	981	894	842	547	434
Morocco	3,568	4,276	264	—	—	—
Mozambique	2,027	1,247	1,247	1,080	695	295
Sudan	1,554	1,526	3,100	1,158	1,571	2,300
Costa Rica (b)	5,700	300	300	300	300	n.a.
Cuba (e)	677	2,024	1,008	915	804	615
Dominican Republic	—	—	290	286	780	513
Guatemala (f)	300	300	360	360	370	—
Honduras	20,429	817	1,611	2,025	1,714	(e) 2,798
Mexico	386,902	382,883	350,250	346,328	332,250	313,662
Nicaragua	232,212	237,376	217,140	203,636	214,882	217,849
Salvador	5,326	3,818	3,271	2,508	2,372	2,474
United States	1,837,310	1,880,142	r 1,827,159	1,793,597	1,739,249	1,603,802
Argentina	7,202	7,330	6,858	7,729	3,054	n.a.
Bolivia (d)	215,121	73,818	24,118	46,940	19,115	35,246
Brazil	119,536	109,602	122,237	120,755	116,190	109,310
Chile	124,970	136,062	94,459	103,590	111,000	76,290
Colombia	377,467	380,824	438,347	325,114	371,715	397,929
Ecuador	18,479	15,289	15,076	16,247	19,445	18,450
French Guiana	1,371	8,700	5,800	8,940	18,000	15,000
Peru	147,424	170,747	159,074	161,831	159,127	139,820
Surinam	6,771	7,202	6,721	6,516	4,258	5,826
Venezuela	56,074	61,140	69,767	89,873	75,976	53,740
Burma	170	124	126	(d) 166	190	(d) 212
Cambodia	—	—	482	1,608	322	4,823
Formosa	24,860	27,900	32,900	20,500	21,200	13,500
Japan	243,149	240,732	241,422	252,563	260,630	258,069
Korea (South)	r 52,336	r 47,676	r 49,903	r 66,578	72,071	65,680
Philippine Republic	416,052	419,112	406,163	379,982	422,833	402,615
Saudi Arabia	31,240	—	—	—	—	—
TOTAL*	5,100,000	r 4,900,000	r 4,800,000	r 4,700,000	4,700,000	4,500,000
WORLD'S TOTAL* (excl. U.S.S.R.)	25,700,000	r 26,800,000	r 27,000,000	29,000,000	29,900,000	32,000,000

*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 9-10 million ounces in recent years.

(a) Annual Report of the United States Mint.

(d) Exports.

(b) Estimated.

(e) Imports into the United States.

(c) European producers only.

(f) United States Bureau of Mines' estimate.

(g) Purchases.

TOTAL EXPORTS OF GOLD*

(Metal content)

Fine troy ounces

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Bullion, refined ..	5,720,786	6,749,299	10,372,551	11,258,836	10,738,067	21,691,400
Coin	47,000	58,000	53,000	41,000	564,000	345,207
Ghana—						
Bullion	787,874	723,905	599,340	788,151	851,433	902,595
Kenya*—						
Bullion	7,000	9,700	13,600	7,300	7,750	9,050
Nigeria—						
Bullion	379	200	—	230	—	—
Sierra Leone*—						
Bullion	2,100	200	400	—	—	—
Rhodesia and Nyasaland—						
Concentrates, etc.* ..	5,000	1,300	2,100	2,400	1,100	2,700
Bullion	522,555	515,699	515,030	547,140	542,747	557,422
Tanganyika—						
Concentrates	3,141	6,141	11,871	9,192	11,951	10,391
Bullion (refined) ..	71,357	68,892	59,293	54,088	56,299	85,403
Uganda—						
Bullion	456	354	237	182	278	334
Union of South Africa—						
Ore and concentrates* ..	5,800	3,700	3,300	8,200	7,600	7,200
Bullion	12,535,000	14,203,000	15,438,000	17,335,000	17,774,000	19,387,000
British Guiana—						
Bullion	16,196	13,204	6,224	7,699	10,163	654
India—						
Bullion	1,019	—	402	—	1,568	298
Malaya—						
Bullion	19,849	13,900	14,990	9,348	10,023	18,256
Hong Kong—						
Bullion	1,554,000	1,691,000	2,286,000	1,850,000	1,239,000	1,444,000
Sarawak—						
Bullion	530	477	687	847	188	23
Australia (a)—						
Ores, etc.	12,526	11,133	13,427	21,817	23,787	16,025
Bullion, refined ..	871,253	855,688	523,940	908,224	405,307	203,076
do. unrefined ..		8,703	7,724	42	—	—
Fiji—						
Bullion	78,411	73,989	67,130	76,620	81,120	70,719
New Guinea (a)—						
Bullion	90,857	85,726	71,519	78,363	54,542	47,153
New Zealand*—						
Auriferous quartz, etc.	830	1,295	—	—	—	—
Beaten, rolled or drawn	38,000	19,000	19,000*	25,000*	18,000*	29,000*
Papua (a)—						
Bullion	280	1,065	491	397	454	410
Irish Republic*—						
Bullion	1,800	r 1,500	1,000	1,700	2,000	1,300

*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.

EXPORTS OF GOLD (cont.)

Fine troy ounces

Exporting Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Bullion and scrap	83,600	42,000	158,000	90,000	268,000*	216,000*
Coin	<i>n.a.</i>	<i>n.a.</i>	119,000	71,000	363,000	270,000
France—						
Bullion and scrap	4,430,000	3,557,000	3,372,000	2,403,000	3,197,000	709,000
Coin	194,000	120,000	90,000	32,000	34,000	42,000
Beaten, rolled or drawn	41,000*	58,000*	70,000	55,000*	41,000*	102,000*
Germany (Federal)—						
Unwrought	330,000*	60,000	38,000	49,000	105,000	101,000
Netherlands—						
Bullion, etc.	1,783,000*	581,000*	46,000*	303,000*	155,000*	27,000*
Coin	2,700*	75*	382,000*	246,000*	33,000	48,000
Sweden*—						
Bullion	37,000	13,000	43,000	44,000	37,000	37,000
Switzerland—						
Unwrought	48,000	44,000	52,000	79,000	225,000*	267,000
Belgian Congo—						
Bullion	362,000	370,000*	363,000*	363,000*	332,000	317,000*
Cameroon (French)—						
Bullion	1,200	900	600	1,400	12,000	700
French Equatorial Africa—						
Bullion	40,000	43,000	43,000	30,000	24,000	17,000*
French West Africa—						
Bullion	200	—	—	—	—	—
Liberia—						
Bullion	1,135	672	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Malagasy Republic—						
Bullion	38	31	—	—	—	—
Mozambique—						
Bullion	1,000*	1,100	63,000	600	1,000	184,000
Sudan*—						
Bullion	100	400	900	1,500	2,000	1,300
Honduras—						
Bullion, etc.	20,429	817	1,611	2,028	2,484	3,061
Mexico—						
Bullion	3,084,000	57,000	44,000	57,000	645,000	44,510
Nicaragua—						
Bullion	233,149	228,621	215,746	196,133	208,398	208,805
Salvador—						
Bullion, etc.	—	4,000	3,000	3,000	2,000	2,000
United States—						
Ore and base bullion	3,495	11,202	19,962	23,953	26,929	20,498
Refined bullion	490,462	151,008	713,900	4,781,780	859,042	29,104
Coin*	55,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Argentina—						
Bullion and coin	—	400	27,000	2,485,000	1,433,000	<i>n.a.</i>
Bolivia—						
Ore	804	54,913	868	450	17,172	31,986
Bullion	214,317	18,905	23,250	46,490	1,943	3,260
Chile—						
Ores and concentrates	68,897	80,440	74,326	70,310	58,151	55,585
Colombia—						
Bullion	339,375	364,039	419,221	114,674	—	—
Ecuador—						
Concentrates*	18,000	13,000	16,000	17,000	20,000	22,000
French Guiana—						
Bullion	1,200	8,000	1,000	9,000	16,000	16,000
Peru—						
Ores, concentrates, etc.	23,744	28,933	34,329	31,407	52,913	92,620
Bullion	51,448	51,779	68,268	259,458	278,433	21,300

EXPORTS OF GOLD (cont.)

Fine troy ounces

Exporting Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
Surinam—						
Bullion	—	7,200	—	—	—	—
Venezuela—						
Bullion*	4,000	21,000	59,000	33,000	7,000	—
Philippine Republic—						
Concentrates and matte	23,870	6,001	(a) 62,202	(a) 51,113	(a) 59,459	101,155
Bullion, etc.	24,551	110,922	(a) 141,360	(a) 156,100	(a) 272,930	401,954
Lebanon—						
Coin	81,000	96,000	121,000	106,000	42,000	56,000

(a) Imports into the United States.

TOTAL IMPORTS OF GOLD*
(Metal content)

Fine troy ounces

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore, etc.*	48,000	46,000	44,000	50,000	45,000	31,500
Bullion—						
Unrefined	1,733,127	1,651,966	1,401,223	1,509,553	1,542,497	1,594,956
Refined	14,309,297	14,837,704	17,281,124	22,491,593	22,460,998	26,005,116
Coin	21,000	20,000	23,000	36,000	436,000	211,629
Malta*—						
Bullion and coin	7,300	7,200	11,900	7,300	8,000	7,600
Ghana—						
Bullion	—	250	249	—	—	—
Kenya*—						
Bullion	700	1,500	200	250	100	100
Nigeria—						
Bullion and coin	—	237	405	672	331	—
Rhodesia and Nyasaland*—						
Concentrates	100	100	200	300	600	900
Tanganyika*—						
Bullion	110	150	—	—	—	—
Uganda*—						
Bullion	500	1,000	600	900	400	450
Zanzibar*—						
Bullion	300	1,200	1,300	900	700	1,100
British West Indies—						
Jamaica*—						
Bullion and coin	100	100	300	1,000	170	100
Trinidad and Tobago—						
Bullion	1,024	1,534	1,869	5,456	6,215	6,981
Ceylon*—						
Bullion (b)	20	8,500	22,000	11,000	45	11,250
Cyprus*—						
Bullion	170	200	400	2,600	3,200	5,000
Hong Kong—						
Bullion	1,564,000	1,776,000	2,208,000	1,853,000	1,236,000	1,450,000
Coin	11,000	41,000	18,000	3,500	—	—
India—						
Bullion	2,139	3,028	6,498	28,751	36,515	20,606
Coin	65	14	372	422	306	142
Malaya—						
Bullion	532	476	685	846	978	145
Sarawak—						
Bullion (c)	1,100*	4,200	4,400	3,600	4,000	14,700
Australia(a)—						
Bullion	189,629	175,039	175,649	143,852	169,119	139,305
Fiji—						
Bullion	56	33	184	175	245	212
New Zealand—						
Concentrates	78	r —	r —	r —	—	—
Bullion	787	594	r 1,834	r 3,381	3,484	3,431
Beaten, rolled or drawn	170*	r 172	r 115	r 191	220	189
Irish Republic*—						
Bullion	—	—	1,400	—	—	—

*See note on page 129.

(a) Years ended June 30 of that stated.

(c) Including coin and partly worked.

(b) Including partly worked.

IMPORTS OF GOLD (cont.)

Fine troy ounces

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
Austria—						
Bullion	10,000*	24,000	23,000	27,000	47,000	61,000
Belgium-Luxemburg ..						
E.U.—						
Bullion, scrap, etc. ..	422,000	407,000*	852,000	831,000*	1,579,000	665,000*
Coin	<i>n.a.</i>	<i>n.a.</i>	87,000	68,000	141,000	154,000
Finland—						
Bullion and scrap ..	143,000	700	600	150	1,000	300
France—						
Bullion and scrap ..	4,142,000	1,321,000	3,828,000	2,655,000	2,674,000	1,740,000
Coin	77,000	26,000	62,000	20,000	15,000	5,000
Beaten, rolled or drawn	32	100	100	3,000	3,000*	3,000
Germany (Federal)—						
Unwrought*	861,000	808,000	971,000	1,388,000	1,484,000	1,432,000
Italy—						
Bullion and scrap ..	11,000	15,000	16,000	447,000	815,000*	10,494,000
Netherlands—						
Bullion	1,757,000	314,000*	242,000*	137,000	160,000*	94,000
Coin	4,000	5,000*	13,000	111,000	2,000	400
Norway—						
Sheets and rolled ..	1,300	<i>n.a.</i>	8,000	200	12,000	—
Sweden—						
Bullion*	6,000	7,400	7,000	7,000	8,000	4,000
Switzerland—						
Unwrought	30,000	27,000	43,000*	33,000	31,000	34,000
Algeria—						
Bullion	166,000	119,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Coin	46,000	51,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Beaten, rolled or drawn	18,000*	22,000*	19,000*	20,000*	20,000*	17,000*
Egypt—						
Bullion	7,000	800	400	—	400	700
Coin	100	100*	—	200	20	—
Mozambique—						
Bullion	106,000	113,000	100,000	103,000	111,000	111,000
Sudan—						
Bullion	93	655	870	r 1,020	1,694	<i>n.a.</i>
Mexico—						
Bullion	1,000	572,000	573,000	573,000	1,000	287,000
United States—						
Ore and base bullion ..	822,684	1,071,270	1,197,136	1,185,917	1,099,484	444,416
Refined bullion	260,321	1,858,736	2,532,611	6,515,253	7,020,242	8,040,528
Coin*	500	5,000	—	<i>n.a.</i>	24,000	<i>n.a.</i>
Brazil—						
Bullion	76,000	16,000	1,000	1,000	700	200
Formosa—						
Bullion	1,500	2,000	3,000	6,000	6,000	42,000
Lebanon—						
Bullion and scrap ..	1,158,000	437,000	358,000	628,000	340,000	1,052,000
Coin	18,000	16,000	17,000	57,000	134,000	130,000
Philippine Republic—						
Bullion	105,771	<i>n.a.</i>	18,595	8,646	25,693	24,953
Syria—						
Bullion and scrap (a) ..	264,000	359,000	305,000	27,000	348,000	56,000

(a) Gross weight.

GRAPHITE
PRODUCTION OF GRAPHITE

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Kenya	310	216	533	943	660	567
South West Africa (a) .. .	103	903	—	—	—	—
Tanganyika (a) .. .	—	—	23	—	—	25
Union of South Africa .. .	1,246	1,633	1,662	1,562	781	551
Canada (b) .. .	2,199	—	—	—	—	—
Ceylon .. . (c)	7,728	9,878	9,207	8,190	5,637	7,872
Hong Kong .. .	1,840	1,535	2,442	3,305	3,285	3,283
India .. .	1,479	1,613	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Australia .. .	70	22	10	—	—	—
OTHER COUNTRIES						
Austria (a) .. .	17,128	17,533	18,390	18,622	20,820	61,110
Germany (Federal) .. .	9,328	10,317	11,498	11,209	10,733	11,037
Italy .. .	3,718	2,317	2,849	2,762	3,922	3,046
Norway .. .	3,565	5,330	4,966	5,594	4,399	4,818
Spain .. .	403	320	295	271	364	408
Sweden (a) .. .	—	276	394	734	530	(d) 600
Yugoslavia .. .	—	922	—	984	886	984
Malagasy Republic—						
Flake .. .	7,620	9,567	9,429	8,130	4,296	5,164
Powder .. .	4,241	4,892	6,151	7,039	6,294	6,098
Morocco .. .	—	115	122	—	—	118
Mexico .. .	21,440	28,877	29,156	23,159	19,254	27,397
Argentina .. .	<i>n.a.</i>	2	344	403	469	(d) 490
Brazil .. .	900	764	517	794	1,181	1,191
Formosa .. .	—	—	2,040	881	817	(d) 1,000
Japan—						
Flake .. .	2,995	2,190	2,440	2,594	2,062	3,171
Other .. .	1,036	883	914	2,113	1,346	800
Korea (South)—						
Flake .. .	703	—	520	256	143	149
Other .. .	12,997	88,527	59,629	145,015	92,541	81,142
Korea (North) .. .	<i>n.a.</i>	3,829	18,424	31,222	(d) 40,000	(d) 50,000
TOTAL* .. .	120,000	210,000	r 200,000	r 300,000	240,000	290,000

*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 Czechoslovakia and the United States.

(a) Crude.

(b) Sales.

(c) Exports.

(d) United States Bureau of Mines' estimate.

EXPORTS OF GRAPHITE

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Crucibles	2,068	2,829	2,638	2,574	2,392	2,525
Kenya	352	338	421	662	508	584
South West Africa	39	676	—	—	—	—
Tanganyika (crude)	—	—	23	—	—	25
Union of South Africa	62	—	24	39	9	11
Canada	1,925	7	2	2	—	—
Ceylon	7,728	9,878	9,162	8,235	5,662	7,872
Hong Kong	1,565	2,014	5,217	4,788	2,172	3,705
India	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	—	6	5
Australia (a)	17	15	4	10	3	4
OTHER COUNTRIES						
Austria	12,583	12,418	13,716	14,055	14,445	16,153
Belgium-Luxemburg						
E.U.	68	33	22	32	60	26
Denmark	7	20	40	20	1	—
France	549	749	585	770	673	630
Germany (Federal)	4,470	4,909	6,080	5,399	4,719	5,574
Italy	1,514	1,680	1,358	1,813	1,449	1,237
Netherlands (b)	162	446	885	1,136	2,438	1,806
Norway	3,117	5,241	5,102	5,626	4,257	4,395
Sweden	—	1	2	1	—	26
U.S.S.R.	<i>n.a.</i>	5,500	4,500	4,200	3,700	4,700
Algeria	39	15	244	68	231	259
Malagasy Republic	12,538	16,507	15,158	16,052	10,924	10,843
Morocco	247	147	48	2	—	—
Mozambique	—	40	—	—	—	—
Mexico	21,367	29,768	27,235	22,074	17,239	23,179
United States	713	1,244	948	1,204	1,041	1,222
Brazil	104	5	4	—	—	—
Japan	585	691	443	356	488	787
Korea (South)	31,559	59,589	95,551	142,634	67,373	43,943

(a) Years ended June 30 of that stated.

(b) Including artificial graphite.

IMPORTS OF GRAPHITE

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Natural	8,082	12,167	9,526	8,295	4,737	6,129
Artificial	48	1,321	1,880	3,480	3,870	1,077
Mauritius—						
Crucibles	4	5	5	5	2	1
Rhodesia and Nyasaland	56	83	64	57	108	54
Union of South Africa ..	141	119	118	151	390	<i>n.a.</i>
Canada—						
Unground	(£19,921)	(£23,563)	(£31,973)	(£27,645)	(£19,494)	(£23,797)
Ground, including manufactures	(£201,034)	(£204,143)	(£296,503)	(£279,378)	(£333,050)	(£362,918)
Crucibles	(£57,332)	(£73,769)	(£94,545)	(£88,557)	(£60,826)	(£83,347)
Hong Kong	829	503	1,536	1,728	681	1,286
India—						
Graphite	384	692	827	1,088	626	1,060
Crucibles	195	86	496	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Malaya	53	123	123	103	76	93
Pakistan—						
Graphite	(a) 85	(a) 17	71	111	132	249
Crucibles	(a) 64	(a) 36	—	15	—	65
Australia (b)	915	1,013	764	r 1,096	816	944
New Zealand	30	r 47	r 30	52	54	44
OTHER COUNTRIES						
Austria—						
Graphite	177	641	872	1,157	1,293	131
Crucibles, etc.	146	196	181	215	185	194
Belgium-Luxemburg						
E.U.	1,637	2,311	2,805	1,971	2,174	2,606
Denmark—						
Graphite	698	1,143	1,061	1,208	578	475
Crucibles	93	102	105	101	119	<i>n.a.</i>
Finland	359	341	199	266	262	472
France	3,776	5,060	4,534	4,782	4,197	3,874
Germany (Federal)	7,320	10,176	11,447	12,450	12,323	11,528
Greece	221	156	183	167	111	<i>n.a.</i>
Iceland	5	11	24	10	20	20
Italy	2,792	2,615	4,429	6,632	5,004	5,588
Netherlands (c)	990	888	1,131	1,059	900	814
Norway—						
Graphite	198	220	258	346	185	83
Crucibles, etc.	96	97	121	98	87	<i>n.a.</i>
Portugal	29	51	84	56	80	124
Sweden	733	905	982	1,668	1,087	736
Yugoslavia	1,031	1,129	521	953	658	800
Algeria	1	6	1	4	8	9
Belgian Congo	5	3	24	40	5	2
Egypt	183	243	312	276	329	614
Mozambique	3	2	3	3	3	1
Tunisia	6	3	3	3	1	1
Mexico—						
Graphite	190	209	100	90	198	155
Crucibles	128	240	212	205	193	174

(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	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
United States (a) ..	36,274	43,361	42,684	37,073	24,144	33,074
Argentina	697	800	402	616	248	310
Brazil—						
Graphite	4	5	—	—	60	154
Crucibles	518	173	260	291	232	271
Chile	37	83	85	79	<i>n.a.</i>	<i>n.a.</i>
Colombia (b)	22	18	29	38	81	77
Peru (b)	40	127	100	26	83	57
Uruguay	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	37	—	13
Venezuela	28	40	84	155	254	<i>n.a.</i>
Burma	2	18	29	95	96	47
Formosa	1,921	1,887	1,521	2,123	1,293	814
Indonesia (b)	138	276	284	190	174	265
Israel—						
Crucibles	37	42	59	34	60	39
Lebanon (b)	10	20	35	11	6	29
Japan	34,944	86,372	110,910	148,831	81,877	47,854
Philippine Republic	79	55	44	67	108	66
Syria (b)	5	15	5	23	16	27
Thailand	209	166	309	418	671	780
Turkey—						
Graphite	28	34	45	70	24	63
Crucibles, etc.	34	78	17	39	111	208

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

Year	Long tons
1954	189
1955	211
1956	74
1957	7
1958	22
1959	5

(b) Including artificial graphite.

GYPSUM
PRODUCTION OF GYPSUM

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Great Britain—						
Gypsum	1,653,600	1,580,400	1,689,600	1,699,200	1,486,800	1,586,400
Anhydrite	1,107,800	1,335,700	1,644,600	1,650,300	1,764,400	1,954,500
Kenya	503	851	1,908	(g) 4,846	10,905	13,117
Tanganyika	6,342	7,502	8,695	9,493	9,145	6,745
Union of South Africa	155,073	159,108	186,940	160,618	228,217	199,751
Canada (a)	3,735,873	4,053,268	4,375,237	4,202,254	3,550,637	5,324,754
Jamaica	(b) 160,000	(c) 82,155	124,876	189,161	599,591	385,567
Trinidad	—	—	432	2,336	2,777	4,850
Ceylon	229	114	492	744	136	6
Cyprus (b)	200,000	160,000	124,000	144,000	139,000	194,000
India	612,120	689,905	r 853,600	921,969	781,846	846,000
Pakistan	31,249	28,046	36,200	64,064	66,095	97,243
Australia	439,716	470,014	467,484	478,435	504,938	517,519
Irish Republic	100,267	124,460	118,144	133,000	104,000	n.a.
OTHER COUNTRIES						
Austria—						
Gypsum	325,111	324,774	349,090	364,305	415,612	414,880
Anhydrite	35,744	81,059	96,592	153,029	117,816	139,775
Belgium	35,590	35,336	34,221	35,809	42,896	—
Czechoslovakia	160,000	208,000	171,000	208,000	n.a.	n.a.
France (a)	3,136,629	3,587,465	3,511,370	3,596,700	3,612,800	3,761,000
Germany (Federal) (d)	832,000	881,000	923,000	866,000	845,000	933,000
Germany (East) (d)	193,000	206,000	213,000	228,000	219,000	249,000
Greece	20,000	15,000	17,000	(b) 17,000	21,564	29,000
Italy (including alabaster)	702,935	789,140	865,135	943,046	1,222,179	n.a.
Luxemburg	1,891	7,162	8,036	9,523	9,990	9,621
Poland	304,000	325,000	348,000	n.a.	n.a.	n.a.
Portugal	56,968	56,968	54,206	63,626	42,684	53,400
Spain	868,868	963,534	1,157,046	1,585,718	n.a.	n.a.
Switzerland	147,000	(e) 196,000	237,000	231,000	88,000	(e) 98,000
U. S. S. R. (f)	2,499,000	2,825,000	2,972,000	(e) 3,450,000	(e) 3,450,000	(e) 3,450,000
Yugoslavia	88,000	r 76,000	97,000	83,000	75,000	91,000
Algeria	71,738	118,000	75,000	(b) 75,000	(b) 100,000	130,000
Angola	8,618	2,706	19,596	6,704	4,557	13,000
Belgian Congo	9,000	10,000	10,000	11,000	(e) 10,000	(e) 10,000
Egypt	140,193	175,793	200,502	930,000	721,000	(e) 738,000
Morocco	20,491	14,483	25,060	n.a.	n.a.	n.a.
Sudan	3,375	3,061	1,378	—	—	n.a.
Tunisia	29,728	34,329	13,165	(b) 15,000	16,300	n.a.
Dominican Republic	26,083	57,422	75,051	72,129	75,206	155,999
Guatemala	—	—	—	6,000	15,000	n.a.
United States	8,032,107	9,539,047	9,211,146	8,209,446	8,613,285	9,700,000
Argentina	n.a.	128,075	146,000	150,683	105,000	(e) 168,000
Brazil	74,226	159,102	152,108	107,961	128,022	180,137
Chile	44,648	46,618	40,486	31,632	n.a.	n.a.
Colombia	15,000	22,000	50,000	55,000	49,000	70,000
Peru	30,232	43,004	n.a.	n.a.	n.a.	n.a.

(a) Including anhydrite.

(b) Estimated.

(c) Exports.

(d) Crude estimated on production of calcined.

(e) United States Bureau of Mines' estimate.

(f) Excluding gypsum used in agriculture.

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

PRODUCTION OF GYPSUM (cont.)

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
Burma	3,180	—	—	—	—	1,925
Formosa	3,949	10,042	12,270	6,283	9,943	10,178
Israel	29,064	(a) 50,000	(a) 54,000	21,200	(a) 35,000	(a) 60,000
Japan	322,238	334,064	372,677	470,357	471,069	532,097
Philippine Republic	—	—	—	—	1,508	1,739
Thailand	—	—	—	2,067	5,600	3,400
New Caledonia	2,598	—	—	—	—	—
TOTAL*	26,600,000	30,000,000	31,200,000	32,000,000	32,000,000	36,000,000

*Excluding gypsum known to have been produced in Bulgaria, Roumania, Cuba, Mexico, 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	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Calcined	12,115	13,625	14,842	17,491	11,576	9,179
Tanganyika	4,440	7,812	9,450	9,667	9,152	6,758
Union of South Africa ..	16,498	22,269	34,512	33,971	47,529	34,450
Canada—						
Crude	2,527,629	2,713,564	3,429,215	3,045,254	2,587,705	4,329,086
Calcined	153	87	133	21	14	333
Jamaica	159,877	81,743	120,583	178,986	587,759	370,905
Cyprus—						
Crude	91,663	89,998	25,424	41,687	27,067	52,304
Calcined	6,877	3,747	3,023	1,256	2,722	1,538
India	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,510	1,385	756
Australia (a)—						
Crude	42,695	36,981	36,373	33,496	70,900	58,717
Calcined	5,578	9,516	7,582	5,181	5,709	2,118
Irish Republic—						
Crude	31,714	32,693	40,026	55,966	38,590	64,978
Calcined	2,857	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
OTHER COUNTRIES						
Austria—						
Crude and ground ..	20,317	23,433	24,135	22,013	26,167	25,175
Calcined	—	48	1,226	1,742	57	486
Belgium-Luxemburg						
E.U.—						
Crude	417	52	292	816	510	6
Calcined	7,707	8,779	9,701	9,692	9,871	12,493
Denmark—						
Crude and calcined ..	31	31	23	4	14	13
France—						
Crude	573,324	616,493	433,076	369,085	389,875	432,459
Calcined	69,535	68,109	60,310	70,362	65,957	74,672
Germany (Federal)—						
Crude and calcined ..	162,126	148,398	183,884	169,165	142,932	147,262
Germany (East)—						
Calcined	24,501	25,145	29,441	37,777	35,059	33,204
Italy—						
Crude	229	621	2,512	941	2,021	6,746
Calcined	327	309	769	403	517	4,228
Netherlands—						
Calcined	1,244	313	2,553	5,738	4,071	3,641
Portugal—						
Crude	759	536	635	710	884	628
Sweden—						
Calcined	34	15	9	11	307	205
Switzerland—						
Ground and calcined ..	40	190	106	75	63	95
Yugoslavia—						
Crude	26,776	—	23,977	15	—	9,511
Ground and calcined ..	—	4,231	5,076	4,497	1,559	2,441
Algeria	55	37	45	16	—	1
Angola—						
Crude	3,044	7,107	2,399	5,257	3,918	3,005
Egypt—						
Crude and ground ..	20,228	17,086	18,898	r 20,304	12,509	22,549
Calcined	3,408	15,063	8,967	19,956	25,105	9,970

(a) Years ended June 30 of that stated.

EXPORTS OF GYPSUM (cont.)

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Morocco—						
Crude	9,390	21,604	14,066	15,413	26,188	22,691
Calcined	870	942	343	335	2,412	697
Dominican Republic ..	28,855	50,288	63,437	65,127	51,435	130,471
Mexico—						
Crude	337,221	333,807	423,600	493,042	545,054	772,398
Calcined	42	139	156	477	74	3
United States—						
Crude and calcined ..	19,986	20,124	18,533	21,828	25,783	12,778
Argentina	—	917	1,674	544	33	1,006
Venezuela	—	2,879	—	2,756	2,608	n.a.
Japan—						
Crude	944	2,038	25	58	204	169
Calcined	130	154	222	372	362	357
Syria	357	5,600	963	5,171	6,892	12,136

IMPORTS OF GYPSUM

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Crude, including						
alabaster	85,206	89,489	63,783	70,876	78,544	102,418
Calcined	1,875	1,632	1,163	1,669	842	945
Rhodesia and Nyasaland—						
Crude and calcined	15,435	19,341	34,493	34,509	38,999	30,839
South West Africa	39	(b)	(b)	(b)	(b)	(b)
Union of South Africa—						
Crude and calcined	1,218	(c) 1,526	(c) 1,804	(c) 1,641	(c) 1,556	n.a.
Bermuda—						
Calcined	257	226	204	322	352	326
Canada—						
Crude and ground	4,427	14,379	62,889	82,267	96,462	105,205
Calcined	17,127	23,157	20,352	15,557	28,502	15,855
India—						
Crude	n.a.	n.a.	n.a.	27,954	4,918	1,101
Calcined	n.a.	n.a.	n.a.	97	101	29
Australia (a)	8	n.a.	n.a.	n.a.	n.a.	n.a.
New Zealand—						
Crude	39,413	r 39,058	r 35,702	r 47,413	58,595	57,662
Calcined	16,539	r 21,533	r 17,965	r 16,833	14,819	11,179
OTHER COUNTRIES						
Austria—						
Crude and ground	67	16,443	10,945	1,375	6,856	14,376
Calcined	566	942	1,028	1,207	1,796	1,125
Belgium-Luxemburg						
E.U.—						
Crude	219,701	241,569	263,103	262,124	231,288	262,467
Calcined	37,379	41,760	39,779	47,794	40,052	34,943
Denmark—						
Crude	39,432	36,796	31,688	40,135	34,261	44,773
Calcined	5,362	6,232	6,140	5,720	7,132	5,991
Finland—						
Crude	53,854	45,172	51,424	41,455	37,883	63,099
Calcined	22,040	30,428	32,425	35,884	29,083	29,939
France—						
Crude and calcined	915	14,200	30,432	19,669	4,379	12,798
Germany (Federal)—						
Crude and calcined	11,182	14,365	13,555	13,458	19,295	38,679
Greece—						
Calcined	77	151	196	182	185	n.a.
Iceland	90	44	44	48	32	5,488
Italy—						
Crude	1	20	1	38	32	4
Calcined	77	83	176	67	117	301
Netherlands—						
Crude	39,164	50,430	57,426	70,361	59,952	63,524
Calcined	36,748	38,436	39,904	44,294	43,795	44,651
Ground	208,525	124,438	25,319	2,509	1,372	622
Norway—						
Crude	32,650	35,553	33,008	34,758	36,824	39,996
Ground	3,168	3,457	4,514	4,370	4,779	5,996
Portugal—						
Crude	6,980	6,950	8,578	9,222	9,350	9,517
Calcined	12	16	16	16	22	21
Sweden—						
Crude	111,848	97,954	106,243	115,074	126,716	133,813
Calcined	17,683	17,280	20,940	23,740	19,792	19,465

(a) Years ended June 30 of that stated.

(c) Including South West Africa.

(b) Included under Union of South Africa.

IMPORTS OF GYPSUM (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Switzerland—						
Ground and calcined ..	192	327	500	496	632	1,633
Algeria—						
Crude	—	—	—	4,922	39	2,854
Calcined	3,276	3,551	3,652	7,866	6,328	9,938
Angola—						
Crude and calcined ..	509	517	555	575	662	443
Belgian Congo—						
Crude and calcined ..	6,583	13,820	10,763	10,753	10,459	9,146
Egypt—						
Crude and ground ..	—	2	2	—	—	—
Calcined	21	29	20	6	17	146
Malagasy Republic ..	87	91	136	104	86	3,140
Morocco	176	148	81	55	42	28
Mozambique—						
Crude	2,099	7,410	6,225	7,827	9,012	10,355
Calcined	229	83	111	118	115	73
Sudan—						
Crude	309	408	295	r 200	356	n.a.
Tunisia—						
Crude	79	111	—	—	—	—
Calcined	—	—	106	113	131	171
Costa Rica	43	56	73	78	79	128
Cuba	4,416	3,590	3,851	4,235	4,323	n.a.
Mexico—						
Crude	n.a.	n.a.	53	1,445	1,029	19
Salvador—						
Crude	2,533	5,393	3,358	3,039	2,564	846
Calcined	19	59	22	39	30	34
United States—						
Crude	3,007,262	3,550,987	3,880,478	3,870,060	3,614,942	5,477,376
Ground and calcined ..	608	837	1,023	777	703	915
Argentina—						
Crude	74	—	—	137	32	27
Brazil—						
Crude	r 32	18	79	33	13	26
Colombia—						
Crude	3,959	5,628	17,027	9,151	11,072	17,884
Calcined	180	264	334	269	362	411
Peru—						
Crude and calcined ..	32	166	65	79	58	88
Uruguay—						
Crude and ground ..	n.a.	n.a.	n.a.	8,783	20,529	33,174
Venezuela	307	453	214	114	122	n.a.
Indonesia—						
Crude	1,067	1,328	4,297	12,438	364	5,586
Calcined	67	72	93	60	88	53
Israel—						
Crude	—	10	98	—	—	—
Calcined	176	82	65	54	94	75
Japan	59,951	16,416	20,514	21,032	26,981	22,997
Korea (South)	n.a.	n.a.	n.a.	n.a.	4,925	8,564
Lebanon	16,251	18,527	12,394	37,415	27,282	42,248
Philippine Republic—						
Crude	10,513	13,800	n.a.	n.a.	n.a.	n.a.
Calcined	358	641	919	n.a.	534	—
Syria	14	15	10	48	23	12
Thailand—						
Crude	n.a.	8,063	5,105	962	546	208

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

Long tons

Producing Country	ORE										Estimated Iron Content				
	1954	1955	1956	1957	1958	1959	1954	1955	1956	1957	1958	1959			
COMMONWEALTH COUNTRIES															
United Kingdom (a) ...	15,557,200	16,175,100	16,245,400	16,902,100	14,612,400	14,860,500	4,200,000	4,367,000	4,386,000	4,564,000	3,945,000	4,015,000			
Northern Rhodesia (b) ...	961	2,164	1,311,059	1,323,895	1,299,349	1,421,533	500	1,100	810,000	830,000	815,000	914,000			
Sierra Leone ...	816,556	1,235,384	1,142,245	1,322,829	1,424,416	1,276,616	506,000	772,000	810,000	830,000	815,000	914,000			
Southern Rhodesia ...	63,290	82,888	114,245	132,829	142,416	127,616	36,400	47,700	65,600	76,400	n.a.	73,400			
South West Africa ...	1,721	—	—	339	6,616	—	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.			
Uganda ...	—	—	(b) 1,005	—	—	—	—	—	n.a.	n.a.	n.a.	n.a.			
Union of South Africa ...	1,863,190	1,967,347	2,031,685	2,047,413	2,177,422	2,845,562	1,161,000	1,242,000	r 1,289,000	r 1,295,000	1,310,000	1,710,000			
Canada ...	6,572,850	14,538,551	19,953,860	19,885,870	14,041,360	21,854,467	3,615,000	7,996,000	10,975,000	10,937,000	7,723,000	12,020,000			
Hong Kong ...	90,800	115,500	122,963	94,182	105,125	119,893	44,000	66,000	69,000	53,000	59,000	67,000			
India ...	4,308,273	4,677,538	4,897,996	5,073,996	6,033,000	7,856,000	2,760,000	2,980,000	3,130,000	3,250,000	3,860,000	5,030,000			
Malaya ...	1,212,780	1,466,184	2,444,570	2,972,359	2,795,261	3,760,684	679,000	821,000	1,370,000	1,665,000	1,565,000	2,106,000			
Pakistan ...	23,313	7,012	7,012	23,313	8,097	2,250	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.			
Malaysia ...	176	—	—	—	—	—	—	—	—	—	—	—			
Australia ...	3,518,804	3,572,609	3,923,985	3,805,473	3,925,524	4,150,293	2,274,000	2,304,000	2,543,000	2,466,000	2,544,000	2,706,000			
Fiji ...	—	—	—	1,300	2,977	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.			
New Zealand (b) ...	2,916	2,550	2,777	2,399	1,533	1,505	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.			
TOTAL ...	34,010,000	43,836,000	r 51,056,000	52,266,000	45,150,000	57,010,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.			
OTHER COUNTRIES															
Albania ...	n.a.	n.a.	n.a.	n.a.	88,000	(d) 160,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.			
Austria ...	2,677,788	2,793,621	3,206,433	3,440,511	3,356,519	3,328,928	836,000	871,000	1,003,000	1,075,000	1,053,000	1,045,000			
Belgium ...	83,234	106,471	142,000	135,000	122,000	140,000	29,000	37,000	50,000	47,000	43,000	49,000			
Bulgaria ...	116,000	111,000	232,000	267,000	(d) 340,000	370,000	70,000	70,000	140,000	170,000	200,000	230,000			
Czechoslovakia ...	1,651,000	1,955,000	2,101,000	2,766,000	2,755,000	2,912,000	500,000	590,000	630,000	830,000	830,000	870,000			
Finland (c) ...	131,905	181,560	202,912	206,470	212,000	190,000	86,700	119,700	133,100	134,600	138,000	120,000			
France ...	43,133,433	49,516,812	51,871,979	r 56,872,817	58,534,000	59,835,000	13,254,000	15,113,000	15,812,100	r 17,387,000	18,000,000	19,000,000			
Germany—	12,830,000	15,436,000	16,661,000	18,031,000	17,700,000	17,778,000	3,495,000	4,160,000	4,441,000	4,751,000	4,670,000	4,712,000			
Federal Republic ...	1,447,000	1,638,000	1,729,000	1,455,000	1,482,000	1,574,000	430,000	490,000	520,000	440,000	440,000	470,000			
Eastern ...	75,946	192,166	400,721	539,138	328,044	n.a.	39,000	39,000	205,000	276,000	168,000	n.a.			
Greece ...	421,000	347,000	300,000	273,000	365,000	432,000	131,000	98,000	93,000	85,000	113,000	134,000			
Hungary ...	1,101,036	1,405,366	1,660,715	1,577,711	1,280,528	1,217,490	550,000	680,000	840,000	800,000	635,000	610,000			
Italy ...	5,794,000	7,090,818	7,474,900	7,719,300	6,533,160	6,406,000	1,571,000	1,903,000	2,002,000	2,091,000	1,861,000	1,817,000			
Luxembourg ...	1,077,290	1,235,754	1,525,472	1,522,976	1,575,604	1,521,612	692,000	792,000	977,000	968,000	1,001,000	976,000			
Norway ...	1,549,600	1,827,000	1,942,000	1,964,000	2,138,800	1,982,000	500,000	600,000	660,000	r 670,000	730,000	670,000			
Poland ...	110,516	186,583	233,739	281,859	228,466	241,350	55,528	93,296	116,870	140,924	114,233	120,572			
Portugal ...	589,490	626,942	683,379	634,314	731,742	1,047,000	270,000	280,000	310,000	290,000	330,000	470,000			
Roumania ...	2,869,330	3,708,910	4,409,766	5,155,739	4,953,969	4,536,400	1,290,000	1,670,000	1,980,000	2,479,000	2,427,000	2,248,000			
Spain ...	—	—	—	—	—	—	—	—	—	—	—	—			

* For detailed figures see page 146.

- (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.

PRODUCTION OF IRON ORE (cont.)

Long tons

Producing Country	ORE										Estimated Iron Content		
	1954	1955	1956	1957	1958	1959	1954	1955	1956	1957	1958	1959	
OTHER COUNTRIES													
<i>(cont.)</i>													
Sweden	15,083,404	17,080,712	18,648,137	19,608,904	18,022,913	17,997,000	9,138,000	10,287,000	11,123,000	11,564,000	10,853,000	10,860,000	
Switzerland (a)	100,000	127,000	129,000	114,000	77,000	59,000	30,000	40,000	50,000	50,000	34,000	30,000	
U.S.S.R.	63,300,000	70,700,000	76,800,000	82,000,000	87,000,000	92,921,000	38,000,000	42,400,000	46,100,000	49,700,000	52,000,000	56,000,000	
Yugoslavia	1,093,200	3,176,214	1,697,724	1,846,485	1,965,000	2,062,000	490,000	620,000	760,000	880,000	880,000	930,000	
Algeria	2,880,600	3,541,000	2,302,000	2,746,124	2,270,187	1,894,900	1,440,000	1,771,000	1,342,000	1,500,000	1,236,000	1,037,000	
Angola	...	n.d.	10,936	103,932	282,984	1,894,900	...	n.d.	n.d.	67,000	184,000	223,000	
Belgian Congo (e)	3,837	12,288	10,936	250,922	3,359	343,470	...	n.d.	n.d.	n.d.	n.d.	n.d.	
Egypt	1,398	17,280	130,000	3,359	175,300	180,000	...	n.d.	n.d.	n.d.	n.d.	n.d.	
Ghana	582,765	640,200	833,300	1,070,190	408,239	359,000	200,000	330,000	433,000	530,000	n.d.	17,000	
Liberia	(b) 1,100,951	(b) 1,716,932	(b) 2,056,941	(b) 2,128,650	(b) 2,034,501	2,664,960	800,000	1,159,000	1,395,000	1,447,000	1,383,000	1,812,000	
Morocco	1,252,226	1,326,344	1,773,541	1,845,217	1,514,585	1,243,043	700,000	750,000	900,000	1,040,000	850,000	700,000	
Tunisia	974,500	1,122,069	1,151,642	1,158,382	1,085,751	966,148	510,000	620,000	633,000	640,000	n.d.	527,000	
Cuba	73,185	120,571	145,454	159,365	14,699	14,699	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	
Dominican Republic	105,000	99,269	161,695	179,987	29,646	29,646	71,000	68,000	107,000	119,000	20,000	n.d.	
Guatemala	(f) 2,000	(f) 3,000	(f) 3,000	4,000	5,000	n.d.	n.d.	n.d.	107,000	119,000	20,000	n.d.	
Mexico	513,850	(g) 704,000	801,000	935,000	(g) 1,018,000	880,000	308,604	422,467	480,916	559,619	609,682	326,865	
United States (c)	78,572,102	103,671,801	98,359,277	106,698,000	168,095,000	60,549,000	40,000,000	53,000,000	50,000,000	54,000,000	35,000,000	31,000,000	
Argentina	(a) 59,300	89,787	64,000	65,997	64,000	(f) 60,000	29,000	29,000	32,000	35,000	32,000	30,000	
Brazil	3,022,243	3,328,511	4,021,305	4,898,090	5,102,820	8,701,694	2,060,000	2,260,000	2,730,000	3,330,000	3,570,000	6,090,000	
Chile	n.d.	n.d.	n.d.	n.d.	3,699,450	3,643,756	n.d.	n.d.	1,034,391	1,923,020	2,324,223	2,452,771	
Colombia	81,899	343,461	367,980	583,763	552,983	107,526	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	
Peru	2,084,888	1,737,743	2,873,600	3,522,765	3,552,108	3,478,000	1,261,000	1,040,000	1,743,000	2,114,000	1,985,000	1,955,000	
Venezuela	5,354,986	8,306,162	10,929,598	15,135,088	15,239,986	16,929,607	3,414,000	5,316,000	6,995,000	9,686,000	9,754,000	10,835,000	
Burma (a)	10,000,000	12,000,000	14,000,000	16,000,000	28,000,000	45,000,000	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	
China (a)	...	n.d.	1,821	4,155	4,363	3,692	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	
Iran (b) (g)	1,637,374	1,542,384	5,391	12,239	19,756	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	
Japan (d)	30,506	28,135	1,975,117	2,203,520	2,056,393	2,507,964	886,000	842,000	1,082,000	1,201,000	1,128,000	1,379,000	
Korea (South)	...	...	61,874	182,484	256,902	277,211	15,600	14,300	31,500	93,100	131,000	141,000
Korea (North)	...	n.d.	...	...	1,520,000	2,660,000	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Lebanon	50,000	42,000	31,403	41,586	23,000	3,000	25,000	21,000	14,000	19,000	11,000	1,000	
Philippine Republic	1,402,394	1,410,084	1,417,486	1,325,099	1,081,379	1,210,176	818,000	818,000	822,000	769,000	627,000	702,000	
Portuguese India	1,358,845	2,176,074	2,504,381	2,901,017	2,888,556	3,025,269	747,000	1,245,000	1,453,000	1,712,000	1,675,000	1,755,000	
Thailand	2,712	5,000	5,684	8,833	14,517	5,278	1,800	3,300	3,800	5,800	9,600	4,000	
Turkey	576,947	860,174	915,784	1,145,812	935,890	859,103	346,000	516,000	550,000	687,000	562,000	515,000	
New Caledonia	...	...	27,700	230,000	290,000	282,400	...	...	15,000	128,000	161,000	157,000
TOTAL	r270,000,000	r325,000,000	r343,000,000	r377,000,000	r352,000,000	375,000,000	r377,000,000	r429,000,000	r432,000,000	r432,000,000	r432,000,000	r432,000,000	
WORLD'S TOTAL	r304,000,000	r369,000,000	r394,000,000	r429,000,000	397,000,000	432,000,000	r397,000,000	r429,000,000	r432,000,000	r432,000,000	r432,000,000	r432,000,000	

(a) Estimated.

(b) Exports.

(c) Usable ore.

(d) Including iron sand as follows (long tons): 1954—517,286; 1955—570,628; 1956—905,055;

1957—1,067,084; 1958—898,910; 1959—1,335,650

(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.

DETAILS OF PRODUCTION OF IRON ORE IN CERTAIN COUNTRIES

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Hematite	466,200	449,700	452,600	446,700	453,100	447,900
Jurassic ironstones—						
Lower lias	3,988,900	4,419,400	4,485,300	4,905,700	4,691,000	4,764,000
Middle lias	3,215,500	3,227,900	3,460,000	3,189,600	2,628,300	2,137,900
Inferior oolite ..	7,890,200	8,078,000	7,847,500	8,360,100	6,840,000	7,519,700
Other iron ore ..	400	100	—	—	—	—
Sierra Leone—						
Red ore	247,856	314,720	321,356	306,320	298,256	95,312
Concentrates	568,700	920,664	985,845	1,017,680	1,001,093	1,326,221
OTHER COUNTRIES						
France—						
Phosphoric	40,538,856	45,952,284	48,130,143	52,984,995	55,028,000	56,331,000
Medium phosphoric ..	2,410,774	3,250,425	3,427,076	r 3,592,075	3,180,000	3,274,000
Non-phosphoric	183,803	314,103	314,760	r 295,747	326,000	330,000
Italy—						
Iron ore	1,074,006	1,371,680	1,647,329	1,555,815	1,262,000	1,217,490
Manganiferous iron ore	27,030	33,686	13,386	21,896	9,000	—
Luxemburg—						
Siliceous iron ore ..	2,248,000	2,619,471	2,686,000	2,823,121	2,934,770	2,785,000
Calcareous iron ore ..	3,137,000	4,069,290	4,302,000	4,442,424	3,292,407	3,259,000
Ferruginous limestone..	409,000	402,057	486,000	453,755	305,983	362,000
Portugal—						
Hematite	80,882	137,655	160,450	185,493	133,018	150,227
Magnetite	29,634	48,928	73,289	96,366	95,448	87,678
Limonite	—	—	—	—	—	3,445
Sweden—						
Manganiferous iron ore	8,000	124,000	115,000	46,000	61,000	n.a.
Other iron ore	15,075,000	16,957,000	18,533,000	19,563,000	17,962,000	n.a.
<i>By phosphorus content (a)</i>						
Under 0.006%	679,946	695,673	738,991	1,002,770	867,596	n.a.
0.006% to under						
0.04%	2,280,536	2,436,729	2,551,620	2,656,578	2,408,765	n.a.
0.04% to under 0.1% ..	57,866	319,310	600,263	362,971	353,240	n.a.
0.1% to under 0.7% ..	4,805,223	5,452,146	6,328,578	7,214,504	7,689,223	n.a.
0.7% to under 1% ..	1,263,519	1,228,302	1,286,296	1,213,508	—	n.a.
1% and over	5,996,214	6,948,551	7,142,390	7,158,573	6,704,089	n.a.
United States—						
Ore containing less than 5% Mn—						
Hematite (b)	66,384,324	92,957,669	81,143,609	r86,691,000	50,931,000	44,236,000
Magnetite (b)	8,593,011	6,550,062	12,446,062	r15,397,000	12,183,000	12,867,000
Limonite	2,315,407	2,461,011	3,202,450	r 3,250,000	3,843,000	2,381,000
Pyrrite cinder and sinter	836,052	1,034,002	1,085,210	810,379	739,000	791,000
Ore containing 5 to under 10% Mn	443,308	669,057	r 481,946	549,129	386,473	273,541

(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	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom	895	1,314	786	758	708	974
Sierra Leone	877,306	1,331,573	1,328,019	1,444,542	1,421,563	1,503,275
Union of South Africa	473	4,281	27,867	11,637	7,706	166,208
Canada	5,470,480	13,008,000	18,094,080	17,972,769	12,391,314	18,552,487
Hong Kong	85,967	123,698	123,705	103,876	108,492	124,152
India	1,055,671	1,297,447	1,692,626	2,215,838	1,866,342	2,471,454
Malaya	1,060,382	1,592,268	2,376,485	2,919,739	2,591,374	3,747,709
Irish Republic						
Burnt pyrites	17,396	27,627	31,322	28,583	25,809	17,003
OTHER COUNTRIES						
Austria	44,299	39,415	53,628	48,995	48,245	48,698
Belgium-Luxemburg						
E.U.—						
Iron ore	137,807	415,918	608,429	504,048	109,713	121,645
Burnt pyrites	200,436	215,027	284,094	177,516	149,709	220,824
Denmark—						
Bog ore (a)	81,417	104,791	143,497	120,176	99,840	77,395
Burnt pyrites	73,350	86,643	90,114	96,780	98,753	96,650
Finland—						
Iron ore	141,318	218,704	205,683	213,499	206,436	210,643
Burnt pyrites	96,658	102,905	211,712	155,761	95,293	121,055
France—						
Iron ore	10,950,120	13,488,215	13,721,110	14,085,265	15,041,047	19,697,439
Burnt iron pyrites	352,236	432,183	449,624	333,830	281,161	360,063
Germany (Federal)—						
Iron ore	252,070	305,525	332,183	364,825	325,839	289,904
Burnt iron pyrites	30,755	27,469	21,983	11,187	1,011	9,028
Greece	72,610	205,541	403,307	404,164	267,174	159,452
Italy—						
Iron ore	11	47,035	41,051	69,010	12,988	2,428
Burnt iron pyrites	390,710	319,272	361,028	440,415	434,799	435,736
Netherlands—						
Iron ore	405	331	3,073	6,629	390	425
Burnt iron pyrites	302,830	389,180	381,703	322,755	183,521	195,706
Norway—						
Iron ore	895,556	1,164,163	1,242,322	1,223,611	1,140,922	924,823
Burnt pyrites	67,454	95,075	74,420	79,869	63,405	76,254
Portugal—						
Iron ore	103,894	165,805	236,285	248,398	185,158	189,125
Burnt pyrites	15,443	1	185,801	190,660	130,628	230,658
Spain	1,160,464	2,109,864	3,211,573	3,414,038	2,122,403	1,769,293
Sweden—						
Iron ore	13,861,000	15,407,000	17,032,000	17,191,000	14,576,000	15,224,177
Burnt iron pyrites	135,073	157,157	166,061	190,524	123,212	146,345
Switzerland	126,757	180,978	134,840	101,384	62,948	48,760
U.S.S.R.	<i>n.a.</i>	8,678,200	8,980,300	10,602,500	11,730,800	13,233,600
Yugoslavia—						
Iron ore	15,731	—	—	69,145	156,962	17,779
Burnt pyrites	—	—	—	8,690	49,713	19,840
Algeria—						
Iron ore	2,863,965	3,567,422	2,450,057	2,701,907	2,286,737	1,991,343
Burnt iron pyrites	4,093	16,880	21,087	8,710	5,487	2,000
Angola	—	—	6,000	91,184	219,460	322,055
Egypt	13,503	1,995	1,191	44,983	10,574	<i>n.a.</i>
Guinea	584,994	665,504	819,560	1,003,342	328,549	347,083
Liberia	1,238,521	1,716,932	2,036,941	2,128,650	2,034,501	2,664,960
Morocco—						
Iron ore	1,108,196	1,286,515	1,812,201	1,908,281	1,278,579	695,005
Burnt pyrites	<i>n.a.</i>	<i>n.a.</i>	2,410	4,188	12,255	9,698

(a) Used for purposes other than iron making.

EXPORTS OF IRON ORE (cont.)

Long tons

Exporting Country	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Tunisia	891,542	1,090,045	1,164,661	1,156,552	992,661	820,175
Cuba	77,744	120,571	135,829	103,398	4,716	<i>n.a.</i>
Dominican Republic	93,709	99,269	160,144	147,437	20,678	50,424
Mexico	142,544	182,935	132,503	235,359	220,050	114,120
United States	3,145,714	4,516,828	5,508,296	5,002,153	3,439,107	2,972,508
Brazil	1,651,937	2,524,047	2,701,511	3,494,006	2,786,412	3,925,454
Chile	1,692,737	1,217,117	2,038,730	3,025,456	3,580,523	4,193,300
Peru	1,896,975	1,669,830	2,631,339	3,619,109	2,470,195	3,267,400
Venezuela	5,362,690	7,668,355	10,732,364	15,331,377	15,325,626	16,400,000
Iran (a)	<i>n.a.</i>	<i>n.a.</i>	5,391	12,239	19,756	<i>n.a.</i>
Korea (South)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	128,273	185,668	198,217
Lebanon	39,368	41,976	31,403	41,585	21,406	—
Philippine Republic	1,276,591	1,400,738	1,928,222	1,128,193	1,039,674	1,177,836
Portuguese India	1,228,114	1,505,314	2,046,770	2,678,408	2,427,808	3,627,863
Turkey	168,005	336,820	235,372	505,342	262,212	131,262
New Caledonia	—	—	21,159	193,311	306,537	283,649

(a) Years ended March 20 following that stated.

IMPORTS OF IRON ORE
(including Manganiferous Iron Ore)

Long tons

Importing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom	11,611,257	12,859,343	14,330,104	15,912,253	12,898,609	13,349,160
Canada	2,709,992	4,052,483	4,525,769	4,052,704	3,047,237	2,500,894
India	618	1,271	584	1,475	645	839
Australia (a)	3	17	41	108,992	268,187	279,226
Irish Republic	807	1,715	784	855	1,697	—
OTHER COUNTRIES						
Austria—						
Iron ore	250,765	840,207	994,492	1,115,344	1,027,342	649,323
Burnt pyrites	328,462	321,898	351,626	356,363	391,469	330,520
Belgium-Luxemburg						
E.U.—						
Iron ore	12,522,507	14,730,547	15,410,093	15,762,572	16,546,142	17,836,735
Burnt iron pyrites	94,123	85,708	89,932	61,857	58,981	179,122
Czechoslovakia	3,642,000	3,864,000	3,841,000	4,845,000	5,081,000	6,268,000
Denmark (b)	1,831	7,998	11,337	26,537	5,992	2,736
Finland	105,663	139,370	115,136	160,371	122,199	124,572
France	306,537	544,216	633,353	1,034,583	987,116	939,109
Germany (Federal)—						
Iron ore	8,615,787	14,098,915	17,543,584	18,820,236	16,693,767	19,719,971
Burnt pyrites	1,390,842	1,610,672	2,365,977	2,052,970	1,581,871	1,668,245
Germany (East)	799,274	1,217,368	(c) 683,826	(c) 802,399	(c) 895,500	(c) 1,002,400
Hungary	1,267,000	1,332,758	1,100,044	1,287,782	1,779,612	1,662,700
Italy	622,605	822,567	1,260,244	1,727,149	2,337,722	1,608,330
Netherlands	1,101,811	1,042,679	1,352,751	1,225,804	1,748,087	1,888,875
Norway	6,165	3,561	96	5,051	21,974	2,945
Poland	4,040,000	4,337,000	4,700,000	5,820,000	5,659,000	6,115,000
Roumania	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	740,900	802,100
Spain	361,971	253,278	283,554	186,743	284,713	77,720
Sweden	271	751	522	16,342	408	3,412
Switzerland	64,914	72,724	61,469	60,918	45,828	45,148
Yugoslavia	—	7,000	33,384	85,237	48,090	123,794
United States—						
Iron ore	15,792,450	23,471,956	30,410,652	33,651,000	27,529,895	35,613,259
Burnt pyrites	898	3,879	1,430	567	2,721	10,157
Formosa	3,021	14,842	15,164	23,058	11,814	13,617
Japan	4,925,743	5,373,233	7,732,133	9,315,844	7,493,525	10,274,816

(a) Years ended June 30 of that stated.

(b) Bog ore and burnt pyrites.

(c) Fe content.

PRODUCTION OF PIG-IRON AND FERRO-ALLOYS*

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom ..	11,883,400	12,470,000	13,170,100	14,282,600	12,974,500	12,582,500
Southern Rhodesia ..	36,485	55,733	58,827	31,048	<i>n.a.</i>	<i>n.a.</i>
Union of South Africa ..	1,178,000	1,281,900	1,340,800	1,401,600	1,556,700	1,779,000
Canada	2,077,829	3,040,333	3,400,610	3,502,530	2,832,293	3,849,553
India	1,961,919	1,894,758	1,958,083	1,911,250	2,101,942	3,144,118
Australia (e)	1,856,013	1,797,533	2,074,467	2,208,140	2,276,154	2,503,456
TOTAL	18,993,600	20,540,000	22,002,900	23,337,200	21,800,000	23,900,000
OTHER COUNTRIES						
Austria	1,332,175	1,482,500	1,709,243	1,929,325	1,789,313	1,807,560
Belgium	4,552,045	5,300,060	5,678,951	5,492,532	5,431,759	5,871,000
Bulgaria	6,000	8,000	10,200	54,859	89,419	<i>n.a.</i>
Czechoslovakia	2,760,000	2,950,000	3,230,000	3,507,000	3,714,000	4,177,000
Finland	73,431	112,427	101,335	126,495	99,449	94,690
France (a)	8,701,378	10,787,058	11,298,298	11,726,532	11,777,785	12,275,033
Germany—						
Federal Republic	12,314,000	16,222,000	17,299,000	18,068,000	16,396,000	18,103,000
Eastern	1,297,000	1,492,600	1,549,000	1,636,600	1,746,800	1,868,400
Hungary	830,000	854,000	(b) 732,000	(b) 755,400	(b) 944,200	(b) 1,086,550
Italy	1,324,398	1,703,460	1,962,086	2,171,574	2,132,866	2,157,309
Luxemburg	2,756,000	3,036,000	3,260,561	3,314,744	3,233,467	3,357,000
Netherlands	600,900	659,000	651,200	689,500	898,800	1,121,400
Norway	242,862	349,951	444,716	559,584	513,963	597,790
Poland	2,620,700	3,062,900	3,450,800	3,624,000	3,803,100	4,305,000
Portugal	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	16,262	35,260
Roumania	421,738	560,523	573,706	675,271	725,224	833,000
Saar	2,457,933	2,833,234	2,983,085	3,116,178	3,054,222	3,169,000
Spain	895,411	976,634	927,865	985,285	1,320,853	1,696,623
Sweden	985,406	1,226,991	1,389,180	1,518,950	1,391,723	1,382,000
Switzerland	36,700	54,100	41,600	45,000	33,000	39,000
U.S.S.R.	29,499,000	32,784,000	35,189,000	36,454,000	39,000,000	42,293,000
Yugoslavia	361,943	522,067	636,078	726,000	767,000	888,000
Mexico	247,823	320,771	401,860	416,033	488,000	551,000
United States	53,398,430	70,771,308	69,263,802	72,141,325	52,507,405	55,467,666
Argentina	38,971	35,000	28,000	33,000	28,000	35,000
Brazil	1,087,830	1,069,747	1,152,855	1,179,000	1,351,000	(d) 1,375,000
Chile (b)	300,320	251,540	361,750	376,000	299,000	286,000
Colombia	86,703	97,284	113,926	140,196	146,412	124,436
China	3,060,000	3,810,000	4,750,000	5,850,000	13,470,000	20,200,000
Formosa	8,455	9,352	8,485	10,935	6,427	8,280
Japan	4,679,393	5,356,857	6,186,445	7,075,024	7,635,885	9,695,100
Korea (North)	—	(d) 100,000	183,000	270,000	310,000	(d) 680,000
Thailand	2,000	2,000	4,000	4,000	5,000	7,000
Turkey	192,600	197,400	217,900	213,080	226,493	232,448
TOTAL	137,200,000	169,000,000	175,800,000	184,900,000	175,400,000	196,000,000
WORLD'S TOTAL	156,200,000	189,500,000	197,800,000	208,200,000	197,200,000	220,000,000

* For details see page 151.

(a) Excluding electric furnace ferro-alloys.

(b) Excluding ferro-alloys.

(c) Estimated.

(d) United States Bureau of Mines' estimate.

(e) Including recovery from scrap.

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

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Hematite	1,436,300	1,414,700	1,547,400	1,570,500	1,237,100	1,021,000
Basic	8,772,100	9,295,500	9,981,800	11,265,300	10,314,800	10,284,700
Foundry	1,441,100	1,509,300	1,411,600	1,258,700	1,228,500	1,089,300
Forge	45,400	56,600	45,000	29,300	19,500	39,300
Direct castings	1,900	700	1,000	1,000	900	500
Spiegeleisen (a)	29,700	28,300	29,400	13,200	27,400	25,000
Ferro-manganese (a)	156,900	164,900	153,900	144,600	146,300	122,700
Union of South Africa—						
Pig-iron	1,152,600	1,239,800	1,278,400	1,337,900	1,488,800	1,676,200
Ferro-alloys	25,400	42,100	62,400	63,700	67,900	102,800
Canada—						
Basic	1,554,207	2,313,984	2,669,841	2,865,546	2,380,094	3,199,947
Foundry	149,818	157,777	134,245	93,598	39,067	168,886
Malleable	270,107	399,103	381,810	360,812	312,606	364,912
Ferro-alloys (c)	103,697	169,469	214,714	182,574	100,526	115,808
India—						
Basic	1,344,780	1,277,557	1,367,276	1,494,751	1,579,659	2,265,491
Foundry	448,064	479,393	440,056	294,511	423,245	767,604
Direct castings	127,814	125,882	122,198	112,694	72,527	44,026
Ferro-alloys	41,261	11,926	28,553	9,294	26,511	66,997
OTHER COUNTRIES						
Belgium—						
Basic	4,409,878	5,129,338	5,527,012	5,347,330	5,306,517	} 5,756,000
Forge	18,720	26,743	9,349	9,029	16,100	
Foundry	107,302	127,499	125,607	120,340	90,025	93,000
Ferro-alloys	16,145	16,480	16,983	15,833	19,117	22,000
France (b)—						
Phosphoric (over 1.4% P)—						
Basic	7,358,324	9,153,762	9,512,717	9,775,737	9,981,745	10,711,249
Foundry	184,255	194,724	229,083	266,258	219,144	184,430
Semi-phosphoric (from 0.5% to 1.4% P)—						
Foundry	335,745	353,221	366,041	399,132	354,483	202,288
Open hearth, basic	168	6,221	—	2,482	—	—
Hematite (less than 0.5% P)—						
Foundry	209,883	258,812	256,046	286,615	276,655	276,349
Open hearth and Bessemer						
Basic	137,043	244,285	278,872	308,063	294,528	269,880
Spiegeleisen	130,039	124,041	140,188	152,440	131,400	132,636
Ferro-manganese	131,483	199,782	241,798	248,997	219,215	212,283
Other pig-iron and ferro-alloys	214,491	252,210	273,553	286,808	300,615	285,918
Germany (Federal)—						
Hematite and malleable	575,000	734,000	823,000	864,000	784,000	648,000
Basic	7,797,000	10,410,000	11,131,000	11,450,000	10,716,000	11,954,000
Foundry	728,000	855,000	749,000	739,000	564,000	522,000
Stahleisen	2,763,000	3,658,000	3,941,000	4,373,000	3,817,000	4,465,000
Spiegeleisen	} 177,000	} 238,000	} 328,000	} 324,000	} 247,000	} 233,000
Ferro-manganese						
Siegerland special	} 274,000	} 326,000	} 328,000	} 318,000	} 268,000	} 281,000
Other pig-iron						
Ferro-silicon						

(a) Blast furnace ferro-alloys.

(b) Excluding electric furnace ferro-alloys.

(c) Factory shipments.

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

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
(cont.)						
Germany (East)—						
Foundry	290,000	305,900	376,000	332,600	409,100	476,100
Open hearth .. .	674,000	850,000	789,700	889,400	929,000	939,300
Basic Bessemer ..	318,100	308,900	361,000	394,800	385,100	419,400
Spiegeleisen .. .	14,700	27,800	22,000	19,800	23,600	33,600
Italy—						
Pig-iron	1,236,638	1,599,249	1,843,838	2,039,187	2,027,229	2,064,570
Spiegeleisen .. .	10,806	13,492	19,048	15,903	21,797	3,811
Ferro-manganese ..	32,360	39,197	43,383	50,626	26,468	22,556
Ferro-silicon .. .	20,860	27,218	32,615	39,946	29,950	22,501
Silico-manganese ..	9,503	r 11,493	10,840	9,644	13,224	21,448
Ferro-chrome .. .	1,779	r 3,103	3,447	2,737	2,704	13,773
Ferro-titanium .. .	165	145	115	185	88	95
Ferro-tungsten .. .	65	84	59	87	35	52
Ferro-vanadium .. .	38	79	37	79	46	36
Ferro-molybdenum ..	233	361	383	421	398	624
Silico-aluminium ..	450	535	609	641	592	596
Other ferro-alloys ..	r 11,501	r 8,504	r 7,712	r 12,118	10,335	7,247
Luxemburg—						
Basic	2,756,000	3,036,000	3,260,561	3,314,744	3,233,467	3,357,000
Norway—						
Pig-iron	58,974	121,384	188,184	241,197	255,420	330,341
Ferro-silicon .. .	96,747	106,604	105,876	148,945	122,164	112,169
Other ferro-alloys ..	86,141	121,963	150,656	169,442	136,379	155,280
Saar—						
Basic	2,244,614	2,588,566	2,731,387	2,848,770	2,826,084	} 3,169,000
Other pig-iron and ferro-alloys .. .	213,319	244,668	251,698	267,408	228,138	
Spain—						
Pig-iron	870,423	948,217	898,612	947,229	1,281,474	1,645,956
Ferro-manganese .. .	15,641	21,089	21,617	23,628	24,216	29,976
Ferro-silicon .. .	8,925	7,001	7,393	13,746	14,025	19,555
Ferro-tungsten .. .	26	35	42	63	85	87
Ferro-chrome .. .	385	246	196	291	673	725
Ferro-phosphorus ..	11	46	5	328	380	324
Sweden—						
Pig-iron	924,186	1,157,017	1,310,898	1,423,228	1,303,175	} 1,382,000
Ferro-manganese .. .	11,018	14,772	13,558	16,827	17,414	
Ferro-silicon .. .	13,673	11,186	14,010	20,987	14,616	
Ferro-silico-manganese	9,585	9,485	10,911	12,964	11,133	
Ferro-chrome .. .	18,267	23,817	26,578	30,597	26,232	
Ferro-titanium .. .	30	55	51	130	370	
Ferro-tungsten .. .	359	467	438	349	203	
Ferro-molybdenum ..	593	1,110	1,278	1,610	1,187	
Ferro-vanadium .. .	62	200	162	102	129	
Metallic silicon .. .	4,832	3,773	3,776	3,812	5,832	
Silico-chrome .. .	2,276	4,428	6,827	7,550	10,756	
Other ferro-alloys ..	524	681	693	794	676	
Yugoslavia—						
Pig-iron	350,574	505,682	620,615	703,000	736,000	849,000
Ferro-alloys .. .	11,369	16,385	15,463	22,707	31,337	39,446
United States—						
Basic	41,984,977	55,790,079	55,034,596	58,372,986	43,852,362	46,481,832
Bessemer	5,022,771	6,639,602	5,950,854	5,664,380	3,214,172	2,728,731
Low phosphorus .. .	189,190	234,854	450,169	517,869	285,963	334,356
Foundry	2,029,493	2,459,501	2,141,380	2,035,050	1,433,954	1,679,668
Malleable	2,347,912	3,153,054	3,095,640	3,088,688	2,057,950	2,221,296
Other pig-iron .. .	180,610	345,604	352,796	299,043	189,266	250,371
Ferro-manganese and spiegeleisen .. .	669,119	852,834	864,291	929,098	605,710	606,815
Ferro-silicon and silvery pig-iron	568,477	717,215	722,576	643,874	400,264	575,649
Other ferro-alloys ..	405,881	578,565	651,498	590,337	467,764	589,308

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

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
(cont.)						
Brazil—						
Pig-iron	1,071,750	1,051,637	1,134,705	n.a.	n.a.	n.a.
Spiegeleisen	701	670	—	n.a.	n.a.	n.a.
Ferro-chrome	434	450	258	n.a.	n.a.	n.a.
Ferro-manganese	8,188	9,251	9,879	n.a.	n.a.	n.a.
Ferro-nickel	n.a.	211	319	n.a.	n.a.	n.a.
Ferro-silicon	3,892	5,224	4,668	n.a.	n.a.	n.a.
Ferro-silico-manganese	2,865	2,304	2,956	n.a.	n.a.	n.a.
Japan—						
Pig-iron	4,535,527	5,145,627	5,910,928	6,756,755	7,322,779	9,296,900
Spiegeleisen	3,775	2,818	4,985	6,022	5,921	3,758
Ferro-chrome	12,644	13,565	29,194	37,380	24,718	68,258
Ferro-manganese	68,135	110,327	129,714	126,765	138,894	155,348
Ferro-molybdenum	682	571	1,172	1,714	861	2,026
Ferro-phosphorus	1,680	1,723	2,003	1,998	1,948	1,285
Ferro-silicon	27,032	30,656	42,693	51,653	39,334	64,649
Ferro-titanium	71	137	180	82	65	92
Ferro-tungsten	206	341	620	1,077	280	570
Ferro-nickel	7,692	11,885	20,576	33,201	11,816	32,879
Ferro-vanadium	21	53	223	245	177	419
Silico-manganese	16,699	32,191	36,524	46,255	68,843	57,001
Calcium-silicon	1,808	1,751	2,835	4,817	3,217	5,230
Other ferro-alloys	3,421	5,143	4,798	7,060	21,032	6,703

PRODUCTION OF STEEL INGOTS AND CASTINGS*

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom ..	18,519,700	19,790,600	20,658,900	21,699,100	19,565,700	20,186,400
Southern Rhodesia ..	32,631	51,341	56,688	65,493	74,000	79,000
Union of South Africa (a) ..	1,355,100	1,500,800	1,525,300	1,652,100	1,743,000	1,089,100
Canada	2,852,705	4,048,814	4,733,216	4,525,133	3,892,380	5,287,257
India	1,684,754	1,704,259	1,737,929	1,710,191	1,813,070	2,428,953
Pakistan	9,813	10,649	10,364	11,695	9,450	9,052
Australia (f)	2,210,611	2,200,555	2,539,061	r 3,015,569	3,156,227	3,381,685
TOTAL	26,665,300	29,307,000	31,261,500	r32,679,300	30,254,000	33,181,000
OTHER COUNTRIES						
Austria	1,626,881	1,794,163	2,044,733	2,469,245	2,355,364	2,472,410
Belgium	4,893,996	5,759,882	6,211,107	r 6,134,586	5,885,968	6,332,000
Bulgaria	61,100	72,500	127,500	156,658	207,249	226,000
Czechoslovakia	4,205,000	4,403,000	4,805,000	5,084,000	5,423,000	6,039,000
Finland	174,306	176,023	193,920	205,402	185,434	232,358
France	10,459,154	12,392,937	13,186,749	13,873,371	14,384,937	14,978,149
Germany—						
Federal Republic	17,159,000	20,823,000	22,999,000	24,120,000	22,425,000	25,414,000
Eastern	2,293,000	2,468,000	2,696,000	2,848,800	2,994,900	3,156,200
Greece	55,000	65,000	74,000	(e) 74,000	112,000	89,000
Hungary	1,467,000	1,603,000	1,402,000	1,353,000	1,600,500	1,731,398
Italy	4,140,420	5,309,438	5,814,327	6,680,235	6,172,009	6,655,005
Luxemburg	2,783,000	3,174,390	3,401,136	3,437,522	3,325,456	3,605,000
Netherlands	912,900	957,800	1,033,600	1,166,500	1,414,800	1,643,400
Norway	118,741	168,213	285,467	344,018	365,562	408,986
Poland	3,886,800	4,356,500	4,935,100	5,220,000	5,574,000	6,062,000
Roumania	618,471	754,064	766,831	850,737	918,940	1,397,000
Saar	2,760,346	3,115,053	3,320,808	3,384,340	3,405,632	3,536,000
Spain	1,079,631	1,193,283	1,223,305	1,324,521	1,535,763	1,781,406
Sweden	1,810,850	2,091,059	2,361,002	2,443,404	2,369,099	2,795,000
Switzerland	148,000	163,000	168,000	230,000	240,000	246,000
U.S.S.R.	40,780,000	44,556,000	r47,929,000	50,237,000	54,053,000	59,003,000
Yugoslavia	606,367	793,293	872,726	1,032,000	1,101,000	1,279,000
Egypt (e)	70,000	85,000	r 107,000	98,000	170,000	170,000
Mexico	599,825	713,894	874,381	1,032,891	1,094,865	1,300,000
United States (b)	78,849,689	104,496,504	102,871,561	100,638,390	76,120,433	83,434,046
Argentina (c)	183,176	214,240	r 200,000	218,000	241,000	211,000
Brazil (c)	1,130,186	1,144,106	1,343,285	1,452,000	n.a.	n.a.
Chile (c)	316,000	r 285,000	375,000	381,000	343,000	409,000
Colombia	—	76,265	88,955	112,577	116,166	107,926
China	2,190,000	2,800,000	4,390,000	5,270,000	10,910,000	13,140,000
Formosa	25,000	r 62,000	r 78,000	r 87,000	105,000	156,000
Japan	7,627,517	9,259,113	10,930,977	12,371,638	11,926,604	16,365,957
Korea (North) (e)	50,000	130,000	190,000	280,000	350,000	450,000
Korea (South)	1,000	11,000	10,000	17,859	20,422	39,237
Philippine Republic	—	—	—	56,000	65,000	(e) 62,000
Thailand	2,000	4,000	4,000	5,000	5,000	6,000
Turkey	166,226	188,518	189,939	172,737	157,788	210,872
TOTAL	193,100,000	235,800,000	r247,300,000	254,800,000	239,000,000	267,000,000
WORLD'S TOTAL	219,800,000	265,100,000	r278,600,000	287,500,000	269,000,000	300,000,000

* For details see page 155.

(a) Excluding steel castings for which the amounts produced for sale were 52,700 tons, 54,100 tons, 52,500 tons, 41,200 tons, 60,200 tons and 58,900 tons in 1954, 1955, 1956, 1957, 1958 and 1959 respectively.

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

(c) Ingots only.

(d) Estimated.

(e) United States Bureau of Mines' estimate.

(f) Including recovery from scrap.

DETAILS OF PRODUCTION OF STEEL INGOTS AND CASTINGS
IN CERTAIN COUNTRIES

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ingots and castings—						
Open hearth, acid ..	995,400	1,000,200	985,700	960,700	761,500	615,700
do. basic ..	15,248,900	16,252,200	17,017,500	18,075,200	16,385,100	16,708,300
Bessemer, acid ..	264,500	252,200	230,100	250,400	229,200	214,700
do. basic ..	909,400	1,031,600	1,078,300	1,058,300	944,800	1,196,400
Ingots, electric ..	621,000	737,400	792,500	793,900	741,600	984,000
Castings, electric ..	308,400	361,000	405,200	417,300	384,200	364,400
All other ingots and castings ..	172,100	156,000	149,600	143,300	119,300	102,900
Southern Rhodesia—						
Ingots	31,492	47,769	55,378	64,063	<i>n.a.</i>	<i>n.a.</i>
Castings	1,139	3,572	1,310	1,430	<i>n.a.</i>	<i>n.a.</i>
Union of South Africa—						
Ingots—						
Open hearth and Bessemer	1,244,800	1,378,800	1,396,500	1,472,000	1,535,500	1,591,800
Electric	110,300	122,100	128,800	180,100	207,500	217,300
Castings (a)	52,700	54,100	52,500	41,200	60,200	58,900
Canada—						
Ingots—						
Open hearth, basic ..	2,435,473	3,497,456	4,132,837	4,018,515	3,460,241	4,702,930
do. electric	344,697	472,491	492,539	384,529	345,225	490,830
Castings—						
Open hearth, basic ..	19,968	23,173	28,667	24,175	14,178	13,244
Bessemer	85	147	274	18	18	7
Electric	52,482	55,547	78,899	97,896	72,718	80,246
India—						
Ingots—						
Open hearth, basic ..	1,553,768	1,578,178	1,624,948	1,598,340	1,706,589	2,289,235
do. acid	31,263	25,830	—	—	—	16,910
Electric	69,345	66,713	70,994	63,582	60,005	76,208
Castings	30,378	33,538	41,987	48,269	46,476	46,600
OTHER COUNTRIES						
Belgium—						
Ingots, open hearth ..	485,228	630,338	658,941	622,398	564,324	(b) 586,000
do. Bessemer, basic ..	4,243,509	4,898,081	5,200,402	5,081,471	5,052,777	(b) 5,449,000
do. electric	109,715	166,892	276,482	351,941	202,999	(b) 297,000
Castings	55,544	64,571	75,282	78,776	65,868	(c)
Finland—						
Ingots	163,127	164,699	182,488	192,740	174,252	221,300
Castings	11,179	11,324	11,432	12,662	11,182	11,058
France—						
Ingots and castings—						
Bessemer, acid	77,255	78,631	78,526	110,684	135,606	107,281
do. basic	6,214,277	7,559,856	7,914,062	8,247,933	8,546,479	9,116,375
Open hearth, acid ..	—	950	1,007	—	—	—
do. basic	3,343,421	3,838,241	4,195,671	4,413,398	4,454,386	4,482,433
Crucible	3,124	2,901	3,086	2,882	1,976	1,621
Electric	821,077	912,358	994,397	1,098,474	1,246,490	1,270,439
Of which—						
Ingots	10,227,524	12,152,464	12,948,937	13,566,878	14,038,992	14,665,394
Castings	231,630	240,473	237,812	306,493	345,945	312,755
Germany (Federal)—						
Ingots—						
Open hearth	9,478,000	10,964,000	11,708,000	12,435,000	11,326,000	12,342,000
Bessemer, basic	6,732,000	8,806,000	9,647,000	10,015,000	9,035,000	10,562,000
Electric	476,000	656,000	848,000	1,025,000	1,209,000	1,444,000
Other	6,000	3,000	1,000	54,000	338,000	538,000

(a) Produced for sale.

(b) Including castings.

(c) Included with ingots.

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

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (Federal) <i>(cont.)</i>						
Castings—						
Open hearth	168,000	198,000	208,000	185,000	134,000	128,000
Electric	190,000	253,000	287,000	302,000	299,000	332,000
Other	108,000	117,000	123,000	104,000	84,000	68,000
Germany (East)—						
Open hearth	1,842,000	1,988,000	2,165,000	2,265,900	2,366,700	2,499,300
Bessemer, basic	251,400	275,900	310,200	334,500	334,400	349,100
Electric	199,900	203,900	221,000	248,400	293,800	307,800
Italy—						
Ingots	4,029,464	5,179,736	5,683,269	6,536,301	6,027,724	6,521,665
Castings	110,956	129,702	131,058	143,934	144,285	133,340
Luxembourg—						
Bessemer, basic	2,735,000	3,106,529	3,321,667	3,364,604	3,251,634	3,520,000
Electric	48,000	67,861	79,469	72,918	73,822	85,000
Norway—						
Ingots	104,982	154,110	269,595	326,413	345,739	390,677
Castings	13,759	14,103	15,872	17,605	19,823	18,309
Saar—						
Ingots—						
Open hearth	662,618	684,148	734,549	738,362	756,109	(e) 802,000
Bessemer, basic	2,036,009	2,362,828	2,508,279	2,592,721	2,601,152	(e) 2,682,000
Electric	38,050	41,235	44,413	45,515	40,337	(e) 52,000
Castings—						
Open hearth	4,946	4,974	7,173	5,206	5,588	(c)
Bessemer, acid	2,792	1,660	274	—	—	(c)
Electric	15,931	20,208	26,120	2,536	2,446	(c)
Spain—						
Open hearth and Bessemer	911,355	995,375	975,120	1,002,804	1,164,997	1,411,986
Electric	168,276	197,908	248,185	321,717	370,766	369,420
Sweden—						
Open hearth, acid	213,061	238,204	274,875	271,695	229,333	} 915,000
do. basic	496,068	527,645	556,385	535,984	526,319	
Bessemer, acid	28,648	35,125	41,204	37,439	28,360	34,000
do. basic	293,586	358,526	409,991	427,315	434,084	391,000
Electric	779,487	931,559	1,057,633	1,104,995	1,075,537	1,348,000
Other	—	—	21,014	65,976	75,466	107,000
Yugoslavia—						
Open hearth	578,765	746,844	819,002	970,000	1,027,000	1,178,000
Electric	27,602	46,449	53,724	61,900	74,200	100,800
United States—						
Ingots						
Open hearth, acid	219,062	(b) 495,399	(b) 600,532	(b) 562,546	(b) 337,147	(b) 396,414
do. basic	71,380,259	b93,575,509	b91,221,419	b90,203,326	b67,412,312	b72,522,333
Bessemer	2,275,093	2,963,854	2,882,140	2,209,945	1,246,415	1,232,396
Oxygen converter	(d)	(b) 274,356	(b) 452,087	(b) 545,989	b 1,181,572	b 1,664,587
Electric and crucible	4,804,650	b 7,187,386	b 7,715,383	b 7,116,584	b 5,942,987	b 7,618,316
Castings (a)—						
Open hearth, acid	55,819	} c 173,352	} c247,967	(c) 262,921	(c) 161,416	(c) 160,092
do. basic	65,837					
Electric, crucible and oxygen converter	48,969	(c) 47,516				
Japan—						
Open hearth	6,265,084	7,690,201	8,825,319	9,772,879	9,065,736	12,117,154
Bessemer, basic	357,968	400,267	441,847	446,773	813,186	1,186,262
Electric	1,004,465	1,168,645	1,663,811	2,151,986	2,047,682	3,062,541

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

(b) Including steel castings shown below.

(c) Included with ingots.

(d) Included with electric and crucible.

(e) Including castings.

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

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Pig-iron—						
Forge and foundry ..	18,578	29,058	86,550	57,761	109,130	109,943
Refined ..	7,158	12,020	42,811	49,295	13,989	13,502
Other ..	18,012	10,097	14,174	22,078	28,568	34,514
Spiegeleisen and ferro-manganese ..	8,903	1,195	966	655	611	596
Ferro-tungsten ..	398	587	1,161	561	993	1,282
Ferro-molybdenum ..	248	430	439	161	296	333
Ferro-titanium ..	304	308	662	393	348	502
Ferro-vanadium ..	6	23	9	9	7	14
Ferro-niobium and ferro-niobium-tantalum ..	—	66	163	82	37	71
Other ferro-alloys ..	1,237	1,646	2,496	2,147	2,155	7,963
Iron and steel ingots ..	103	250				
Blooms, billets and slabs—			1,951	4,449	21,746	82,660
Iron ..	51	76				
Steel ..	1,950	2,863				
Old and scrap (a) ..	6,287	9,111	5,948	3,137	242,765	933,063
Channel Islands (Jersey)—						
Scrap ..	1,131	2,562	2,652	2,523	1,679	2,444
Malta—						
Scrap ..	11,267	9,047	8,915	10,893	8,404	12,526
Nigeria—						
Scrap ..	1,052	2,839	10,923	22,402	10,872	15,119
Rhodesia and Nyasaland—						
Pig-iron ..	1,927	195	5,022	10,599	1,882	35,603
Ferro-chrome ..	2,294	6,616	7,650	8,108	6,384	9,651
Ferro-silicon ..	394	93	64	—	—	—
Union of South Africa—						
Pig-iron ..	42,315	21,614	649	2,350	31,474	273,666
Ferro-alloys ..	5,599	19,171	31,817	32,590	33,635	75,299
Ingots, blooms, billets, etc. ..	34	123	415	42	37	34,207
British West Indies—						
Trinidad and Tobago—						
Old and scrap ..	6,684	10,974	11,604	13,199	5,159	12,240
Canada—						
Pig-iron ..	180,896	227,207	230,024	515,714	300,528	418,156
Spiegeleisen ..	—	—	210	637	—	—
Ferro-chrome ..	13,664	11,030	8,837	9,225	9,339	6,709
Ferro-manganese ..	3,249	26,254	53,076	41,726	201	172
Ferro-silicon ..	30,984	52,290	68,438	58,004	31,254	31,884
Other ferro-alloys ..	761	966	554	690	505	438
Billets, ingots and blooms ..	4,773	237,919	44,246	58,200	52,239	66,182
Old and scrap ..	499,349	529,221	589,395	610,862	345,667	341,872
Tin-plate scrap ..	25,542	29,100	28,823	29,892	30,993	33,963
Hong Kong—						
Pig-iron ..	2	—	1,701	1,172	117	7,860
Old and scrap ..	35,127	64,057	96,897	71,277	100,341	200,634
Tinplate scrap ..	2,866	2,359	2,444	6,307	2,141	2,783
India—						
Pig-iron ..	11,279	38,568	13,686	406	—	50,566
Ferro-manganese ..	n.a.	n.a.	n.a.	3,001	10,553	8,114
Old and scrap ..	126,126	148,057	175,707	92,944	107,575	280,711

(a) Excluding ships intended for breaking up as follows (gross tonnage): 1954—32,200; 1955—8,602; 1956—10,658; 1957—5,281; 1958—47,450; 1959—97,850.

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

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES (cont.)						
Malaya—						
Pig-iron	160	274	277	1,229	502	275
Ingots, slabs etc.	555	105	166	2	72	2,501
Scrap	50,772	57,111	115,147	99,179	60,897	89,501
Tin-plate scrap	2,419	2,684	2,601	1,894	4,373	1,647
Australia (a)—						
Pig-iron	116,311	60,278	14,425	17,486	16,455	22,668
Ferro-alloys	8	11	1	23	7	9
Ingots, blooms and billets	106,061	7,806	987	1,575	2,529	561
Old and scrap	119,337	49,835	57,545	r 169,736	117,816	137,333
Tin-plate scrap	8,394	11,642	9,519	9,830	18,755	33,990
New Zealand—						
Scrap	19,728	r 26,652	r 53,526	r 88,699	60,858	52,257
Irish Republic—						
Old and scrap	15,216	19,688	18,523	23,360	18,064	13,632
OTHER COUNTRIES						
Austria—						
Pig-iron	293,770	317,909	333,178	255,369	67,662	73,669
Ingots and blooms	40,088	37,501	61,619	157,031	22,905	11,310
Scrap	4,795	2,117	3,123	9,371	6,919	7,146
Belgium-Luxemburg						
E.U.—						
Pig-iron	42,696	35,932	19,516	26,228	29,817	46,909
Spiegeleisen	4,677	4,678	3,769	4,299	3,533	4,231
Ferro-manganese	3,230	7,044	4,477	14,088	13,150	13,698
Other ferro-alloys	7	54	68	11	741	466
Crude iron and steel ingots	1,107	3,014	8,822	4,436	4,390	18,222
Steel blooms and billets	365,865	408,725	355,264	545,944	762,624	497,200
Old and scrap	182,947	83,963	36,975	93,796	139,881	270,462
Denmark—						
Old and scrap	20,115	26,242	24,833	24,067	23,026	44,889
Finland—						
Pig-iron	1,031	15,369	1,838	27,802	32,069	22,446
Ferro-alloys	—	6	2	4	—	—
Old and scrap	963	1,097	2,077	1,681	1,431	5,642
France—						
Pig-iron	117,295	407,674	243,870	183,815	83,781	160,885
Spiegeleisen	1,212	5,500	4,725	425	410	8,041
Ferro-manganese	54,891	96,742	116,822	122,795	83,036	98,939
Ferro-silicon	8,096	12,018	4,055	5,812	4,670	12,881
Ferro-chrome	6,051	11,615	10,130	11,887	10,623	21,100
Other ferro-alloys	1,888	3,051	915	1,732	1,592	3,294
Ingots	11,146	48,744	79,363	84,069	1,971	24,164
Blooms and billets, forged or rolled	432,739	432,417	199,971	154,014	196,692	227,861
Old, filings and scrap	852,038	659,211	544,010	643,651	579,296	1,217,162
Germany (Federal)—						
Pig-iron	374,116	301,934	343,452	493,903	333,314	379,152
Ferro-alloys	8,912	28,273	74,113	56,114	16,911	40,000
Rough, blooms, bars, ingots, etc.	361,645	316,921	242,952	492,171	547,973	938,779
Old and scrap	759,597	486,968	758,233	742,500	926,421	944,529

(a) Years ended June 30 of that stated.

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

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
Greece—						
Scrap	12,354	5,333	4,298	r 1,900	49	n.a.
Iceland—						
Scrap	1,350	3,647	6,070	2,952	1,106	4,285
Italy—						
Pig-iron	—	16	2,525	232	448	2,607
Spiegeleisen	—	—	502	20	74	139
Ferro-manganese	1,001	550	736	211	322	4,005
Ferro-silicon	9,248	9,988	2,835	3,066	4,618	3,217
Ferro-silico-manganese	153	—	—	15	—	5,199
Ferro-chrome	5	220	1,707	3,407	5	8,743
Other ferro-alloys	—	14	23	—	39	7
Ingots	25,588	12,911	46,184	95,432	94,669	82,930
Blooms, billets, etc.	13,224	8,934	16,354	34,211	22,192	34,374
Scrap	217	1,406	1,589	15,514	437	967
Netherlands—						
Pig-iron	206,274	259,065	183,368	143,603	120,531	141,528
Ferro-alloys	30	192	27	86	125	85
Ingots, blooms and billets	30	14	372	138	2,468	654
Old and scrap	140,145	197,784	259,593	259,058	179,981	272,101
Norway—						
Pig-iron	37,086	51,440	42,811	44,288	58,414	95,073
Ferro-chrome	10,562	25,542	22,594	19,338	14,307	30,604
Ferro-manganese	48,669	64,478	74,264	77,719	41,844	61,938
Ferro-silicon	64,490	73,947	78,678	91,818	80,596	120,950
Ferro-silico-manganese	22,354	30,437	45,811	45,126	44,859	67,411
Other ferro-alloys	277	280	697	2,200	2,112	3,342
Ingots, blooms and billets	678	3,838	29,850	25,468	38,116	18,545
Old and scrap	677	1,208	11,545	4,705	5,693	5,598
Portugal—						
Old and scrap	9,842	33,510	23,071	24,757	22,505	20,562
Spain—						
Pig-iron	19,455	22,205	13,808	984	80,695	186,103
Sweden—						
Pig-iron	60,250	56,450	40,925	33,533	37,376	37,429
Sponge iron	16,092	21,130	20,072	22,233	17,967	22,890
Ferro-manganese	824	1,059	740	1,229	1,382	2,693
Ferro-silicon	6,739	6,844	4,007	3,983	4,199	159
Ferro-silico-manganese	319	35	1	—	—	226
Ferro-chrome	6,325	10,935	10,516	9,263	9,871	15,597
Ferro-tungsten	173	110	59	48	64	184
Other ferro-alloys	126	241	404	362	492	955
Steel ingots	2,484	5,050	2,801	1,023	522	566
Steel blooms	—	—	—	34	—	58,201
Old and scrap	6,723	12,355	9,578	11,274	8,307	10,164
Switzerland—						
Pig-iron and steel, etc.	2,828	4,417	5,733	10,872	3,880	6,362
Ferro-alloys	2,273	960	1,327	1,849	949	2,200
Old filings and scrap	3,584	2,981	2,657	4,397	3,149	3,943
U.S.S.R.—						
Pig iron	n.a.	1,131,200	1,337,900	1,258,100	1,029,400	1,419,700
Ferro-manganese	n.a.	25,200	30,900	41,000	45,000	49,700
Ferro-silicon	n.a.	25,000	37,300	39,600	29,700	43,600
Other ferro-alloys	n.a.	36,100	28,200	31,300	33,200	35,800
Steel ingots and billets	n.a.	183,200	403,700	421,900	522,500	647,900
Scrap	n.a.	51,400	54,800	54,300	53,800	104,000

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

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
(cont.)						
Yugoslavia—						
Pig-iron	—	15,652	16,292	—	—	8,315
Ferro-chrome	1,855	3,490	2,857	2,645	7,611	7,871
Ferro-manganese	2,215	4,019	2,877	3,845	7,842	6,538
Silico-manganese	123	797	493	787	197	886
Ferro-silicon	229	671	563	605	6,126	9,723
Other ferro-alloys	—	—	—	15	923	1,865
Steel ingots	—	165	80,820	46,510	19,208	12,807
Scrap	770	445	667	—	—	116
Algeria—						
Old, filings and scrap	64,546	62,874	72,555	88,309	32,295	39,804
Morocco—						
Old and scrap	22,438	46,506	58,000	76,405	29,402	38,801
Mozambique—						
Scrap	621	2,213	4,774	5,071	4,077	8,943
Tunisia—						
Scrap	23,712	42,620	55,667	61,507	14,653	21,322
Cuba—						
Old and scrap	16,502	30,195	90,500	271,528	20,738	n.a.
Mexico—						
Ferro-alloys	—	1,275	3,166	2,996	395	2
United States—						
Pig-iron	9,149	31,240	238,549	787,805	92,275	9,235
Ferro-manganese	1,546	1,597	2,007	6,603	1,255	845
Ferro-chrome	1,879	4,191	4,945	4,049	1,714	5,470
Ferro-molybdenum	111	156	422	171	101	111
Ferro-vanadium	63	196	124	120	68	135
Ferro-silicon	1,857	1,508	1,888	2,365	1,943	9,427
Ferro-tungsten	5	1	1	2	1	34
Ferro-titanium	153	219	325	327	288	286
Other ferro-alloys	21,884	47,779	67,613	45,160	39,904	44,845
Steel ingots, slabs, blooms, billets and sheet bars	26,308	554,762	323,861	455,670	25,001	13,081
Scrap (a)	1,499,265	4,580,313	5,660,947	5,690,604	2,598,575	4,305,354
Brazil—						
Pig-iron	n.a.	20,549	92,109	29,632	—	984
Ferro-manganese	n.a.	—	984	1,673	—	—
Ferro-nickel	n.a.	—	98	—	—	—
Ferro-silicon	n.a.	98	—	—	—	—
Chile—						
Pig-iron	32	—	r 19,777	17,829	150	1,476
Ferro-manganese	6,014	7,903	r 2,996	r 5,712	5,822	2,735
Peru—						
Scrap	8,234	—	11,924	8,842	—	—
Indonesia—						
Scrap	19,611	45,741	79,016	53,709	13,996	26,544
Japan—						
Pig-iron	24,663	82,302	48	4	11,023	76
Ferro-chrome	7	2,576	3,570	5,223	4,081	17,273
Ferro-manganese	14,230	41,532	53,131	35,490	47,900	33,269
Ferro-silicon	840	2,372	1,132	595	1,013	1,253
Ferro-silico-manganese	5,725	7,437	7,405	9,844	21,611	9,633
Other ferro-alloys			5,607	11,203	513	504
Ingots, blooms and billets	129,338	343,422	218,165	38,005	58,051	9,132
Scrap	4,672	599	42	—	39	23
Korea (South)—						
Scrap	6,423	7,035	—	—	1,503	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	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
Lebanon—						
Scrap	2,063	8,772	8,705	10,924	3,577	7,153
Philippine Republic—						
Scrap	7,000	20,112	33,451	36,913	—	162
Thailand—						
Scrap	984	3,765	8,615	11,915	1,080	285
Turkey—						
Ingots and blocks ..	—	19,657	—	8,070	—	—
Old and scrap	2,809	2,981	3,862	11,476	261	1,020

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

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Pig-iron—						
Charcoal	187	570	10,335	483	662	448
Forge and foundry	—	7,827	992	—	573	2,981
Hematite	43,944	66,582	40,775	7,362	5,573	28,885
Basic	290,048	588,884	490,125	305,237	137,130	58,480
Other pig-iron	3,739	6,627	5,611	4,165	6,892	5,385
Sponge-iron	1,266	2,830	2,499	3,393	3,545	4,500
Spiegeleisen and ferro-						
manganese	3,386	16,550	41,674	83,254	18,087	28,807
Ferro-silicon	35,017	70,361	80,062	77,499	55,277	63,334
Ferro-silicon-chrome	662	1,695	2,313	2,097	1,744	1,623
Ferro-chrome	9,134	26,187	26,211	29,192	25,764	31,901
Silico-manganese	6,898	10,308	13,977	13,845	16,122	22,685
Other ferro-alloys	614	1,740	1,646	1,454	1,077	1,175
Iron and steel ingots	33,754	183,103	115,501	11,420	711	833
Blooms, billets, slabs—						
Iron	2,229	633	16	223	—	—
Steel	67,976	291,483	256,881	234,905	82,675	1,768
Old and scrap (a)	759,126	1,271,720	981,447	665,574	64,766	2,873
Kenya—						
Pig-iron	573	701	740	1,273	140	279
Ingots, blooms, etc.	260	1,833	2,076	1,555	1,753	1,360
Mauritius—						
Pig-iron, ingots, etc.	18	6	17	28	56	30
Rhodesia and Nyasaland—						
Pig, ingots, etc.	420	305	285	146	298	357
South West Africa—						
Pig-iron	—	(b)	(b)	(b)	(b)	(b)
Ferro-alloys	90	(b)	(b)	(b)	(b)	(b)
Tanganyika—						
Pig-iron	150	206	24	80	74	37
Ferro-alloys	—	—	272	488	805	790
Ingots, blooms, etc.	6	873	127	806	477	271
Union of South Africa—						
Pig-iron and steel ingots	54	(c) 19	(c) 11,094	(c) 16,888	(c) 2,216	n.a.
Ferro-silicon	8	(c) —	(c) 22	(c) 28	(c) 400	n.a.
Ferro-manganese	9	(c) —	(c) —	(c) —	(c) —	n.a.
Other ferro-alloys	164	(c) 118	(c) 186	(c) r 205	(c) 175	n.a.
Canada—						
Pig-iron	17,865	11,962	11,283	6,287	23,659	18,937
Sponge iron	105	379	284	308	251	331
Ferro-manganese	7,613	3,522	1,956	664	2,217	2,084
Ferro-silicon	214	376	589	723	1,101	2,263
Ferro-tungsten	38	51	92	76	89	370
Silico-manganese	17	243	1,009	2,015	1,950	2,669
Other ferro-alloys	1,965	5,068	6,502	5,045	4,962	10,352
Ingots, blooms and						
billets	4,242	3,338	12,244	18,994	5,011	11,254
Scrap	57,449	391,471	750,220	431,137	258,397	587,822
Trinidad and Tobago—						
Pig-iron	5	21	57	10	48	6
Ingots, etc.	8	41	55	775	132	846
Ceylon—						
Pig-iron	972	429	350	227	948	862
Ingots, blooms, billets	n.a.	1,209	4,630	3,201	2,483	1,600
Cyprus—						
Pig-iron	665	103	687	1,899	—	10

(a) Excluding ships intended for breaking up as follows (gross tonnage): 1954—245,775; 1955—149,890; 1956—28,717; 1957—18,297; 1958—4,740; 1959—38,051.

(b) Included under Union of South Africa.

(c) Including South West Africa.

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

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES (cont.)						
Hong Kong—						
Pig-iron	882	2,442	10,395	6,275	3,017	10,433
Ingots, blooms and billets	379	186	959	1,504	561	594
Old and scrap	12,296	20,920	20,141	30,281	14,234	24,439
Tinplate scrap	7,073	8,525	8,166	12,113	8,932	13,093
India—						
Pig-iron	—	—	47,420	113,608	100,443	67,993
Ingots, blooms and billets	7,046	40,389	125,846	228,710	226,917	138,255
Ferro-chrome	87	193	77	259	131	271
Ferro-manganese	6,197	481	291	275	200	150
Ferro-silicon	323	266	191	18	38	689
Other ferro-alloys	496	192	212	544	711	1,111
Old and scrap	(a) 10,413	1,005	23,271	8,966	4,553	29,807
Malaya—						
Pig-iron	1,314	3,593	3,847	3,599	2,346	2,761
Ferro-alloys	59	70	68	43	2	27
Ingots, slabs, etc.	749	316	490	1,500	3,362	2,343
Scrap	3,820	2,365	5,671	4,841	3,493	1,197
Tinplate scrap	4,600	4,659	5,974	7,489	7,765	8,735
Pakistan—						
Pig-iron	(b) 30,529	(b) 13,427	12,426	27,769	18,174	67,432
Ferro-alloys	(b) 73	(b) 806	—	104	81	74
Ingots, blooms and billets	(b) 37,101	(b) 66,050	52,204	85,215	85,061	56,302
Old and scrap	(b) —	(b) 47	11	139	692	94
Australia (c)—						
Pig-iron	—	—	(a) 158	—	—	—
Ferro-manganese	684	2,206	10,357	2,781	4,908	3,650
Ferro-chrome	1,012	994	1,701	1,911	1,240	2,680
Ferro-molybdenum	152	97	114	158	129	140
Ferro-silicon	n.a.	n.a.	3,531	7,228	7,191	8,256
Other ferro-alloys	1,176	7,481	r 848	r 397	698	810
Other ingots and billets	141	148	345	187	34	6
Scrap	(a) 3,882	175	(a) 1,497	(a) 729	(a) 510	(a) 20
New Zealand—						
Pig-iron	10,940	r 8,306	8,553	5,480	9,755	7,348
Ferro-alloys	74	r 8	6	r 20	64	44
Billets and blooms	147	r 170	r 265	r 323	211	1,091
Irish Republic—						
Pig-iron	5,062	7,292	6,368	3,635	3,210	3,534
Ferro-alloys	522	448	455	295	348	519
Ingots, blooms and billets	2,514	6,314	5,620	1,114	5,077	13,015
Old and scrap	223	64	2	5	3	1
OTHER COUNTRIES						
Austria—						
Pig-iron	1,941	5,982	8,332	9,492	11,498	7,771
Ferro-manganese	4,308	5,951	7,219	7,518	8,268	5,818
Ferro-silicon	2,902	6,629	7,205	8,603	6,289	8,985
Other ferro-alloys	7,544	8,915	9,871	11,445	7,545	14,993
Ingots and blooms	9,025	13,116	5,062	1,151	2,574	14,824
Scrap	56,499	83,834	134,723	208,099	61,958	47,787

(a) Excess of re-exports.

(b) Years ended March 31 following that stated.

(c) Years ended June 30 of that stated.

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

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
Belgium-Luxemburg E.U.—						
Pig-iron	205,781	378,975	406,118	304,020	227,278	336,614
Sponge-iron	263	615	151	302	205	260
Spiegeleisen	8,478	8,994	19,451	16,642	20,666	7,118
Ferro-chrome, etc.	1,107	2,224	2,813	1,834	2,031	2,759
Ferro-manganese	42,901	62,357	71,532	80,948	46,626	55,300
Ferro-silico-manganese	2,973	1,640	3,002	2,553	2,317	2,494
Ferro-molybdenum	67	166	177	242	65	265
Ferro-silicon	8,857	12,060	17,636	17,034	11,388	15,204
Ferro-tungsten	40	52	69	31	29	71
Other ferro-alloys	276	376	687	539	482	571
Crude iron and steel ingots	23,852	23,182	947	4,452	3,705	22,618
Blooms and billets	25,804	48,486	45,711	37,226	38,444	65,176
Old and scrap	166,765	358,227	704,917	527,466	304,605	240,913
Denmark—						
Pig-iron	49,578	57,298	56,135	69,673	39,428	55,407
Ferro-chrome	158	211	356	132	236	321
Ferro-manganese, etc.	3,535	2,716	2,412	2,460	2,219	2,275
Ferro-silicon	4,126	2,616	4,617	3,609	2,321	1,829
Other ferro-alloys	9	418	40	69	64	187
Old and scrap	1,614	4,670	1,445	6,605	4,116	3,007
Finland—						
Pig-iron	49,607	7,598	6,465	5,302	1,834	3,788
Billets	51,945	29,626	48,450	51,882	15,431	135,800
Ferro-manganese and spiegeleisen	1,620	1,754	2,556	2,925	1,363	2,176
Other ferro-alloys	1,640	2,219	3,008	3,446	2,312	5,145
Old and scrap	49,380	66,399	47,051	49,639	48,006	75,693
France—						
Pig-iron—hematite	82,144	113,391	102,602	184,893	129,831	93,560
do. other	9,797	13,709	16,922	18,007	17,939	19,206
Spiegeleisen	15,955	16,589	16,561	26,816	16,552	10,786
Ferro-manganese	2,686	6,012	887	40	3,405	4,665
Ferro-silicon	507	57	126	176	66	12
Ferro-chrome	13	20	5	2	19	12
Other ferro-alloys	1,612	14,039	13,590	16,655	11,216	10,272
Ingots	9,168	7,515	29,434	45,543	22,400	19,430
Blooms and billets, rolled or forged	141,783	233,342	115,431	127,895	256,700	315,174
Old, filings and scrap	86,789	363,023	656,566	624,356	557,936	305,955
Germany (Federal)—						
Pig-iron	120,319	195,520	126,369	68,912	273,363	324,088
Ferro-alloys	66,689	103,786	73,756	72,410	99,420	159,273
Rough blooms, ingots, bars, etc.	102,379	142,065	247,827	248,348	204,960	272,956
Old and scrap	597,146	1,110,300	583,533	1,270,900	354,508	612,524
Germany (East)—						
Pig-iron	239,076	289,755	338,818	436,629	547,700	629,600
Greece—						
Pig-iron	28,730	31,367	33,920	33,105	55,190	74,829
Ingots, blooms, slabs, etc.	38,692	54,244	86,187	73,298	91,137	76,604
Scrap	2,354	1,734	1,320	n.a.	n.a.	n.a.
Hungary—						
Pig iron	r 199,900	r 118,362	r 134,871	r 123,171	38,061	59,277
Ferro-chrome	2,015	1,416	1,695	2,207	1,754	n.a.
Ferro-manganese	5,602	4,884	5,186	7,121	5,834	n.a.
Ferro-silicon	5,820	598	—	1,669	1,378	n.a.
Other ferro-alloys	265	300	386	310	203	n.a.
Ingots	39,219	74,423	51,900	105,872	146,429	n.a.

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

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Italy—						
Pig-iron	222,482	341,088	335,981	381,921	329,628	370,193
Spiegeleisen	1,129	2,506	2,145	168	4,431	2,265
Ferro-chrome	3,240	3,401	6,456	5,870	6,132	8,354
Ferro-manganese	789	3,857	8,211	9,257	18,136	19,010
Ferro-silicon	684	243	702	2,628	2,419	2,849
Ferro-silico-manganese	118	538	1,129	2,840	2,001	1,767
Ferro-molybdenum	183	169	276	303	(a)	(a)
Ferro-titanium	36	101	209	146	272	232
Ferro-tungsten	31	100	37	79	55	41
Ferro-vanadium	17	36	38	65	(a)	(a)
Other ferro-alloys	139	58	85	70	497	436
Ingots	23,970	27,285	42,402	113,097	64,998	83,000
Blooms, billets, etc.	142,955	121,513	97,032	80,389	95,497	109,174
Old and scrap	1,469,354	2,231,987	2,279,768	2,779,294	2,769,895	2,586,406
Netherlands—						
Pig-iron	14,066	15,661	22,711	20,981	13,692	17,144
Spiegeleisen	1,137	1,064	1,410	1,446	512	1,672
Ferro-manganese	5,401	7,376	7,100	10,278	9,103	8,806
Ferro-chrome	188	165	258	186	244	290
Ferro-silicon	1,821	2,274	3,548	3,837	2,188	2,665
Ferro-silico-manganese	401	236	513	277	229	372
Ferro-molybdenum	24	32	40	35	35	21
Other ferro-alloys	31	65	101	152	515	644
Ingots, blooms, billets, etc.	99,366	241,492	118,886	175,330	140,317	91,672
Old and scrap	32,137	68,580	60,276	63,505	52,373	64,884
Norway—						
Pig-iron	20,386	21,171	16,010	12,763	11,848	9,566
Ferro-tungsten and ferro-vanadium	12	26	31	57	18	13
Other ferro-alloys	148	165	190	1,438	181	93
Ingots, blooms, billets, etc.	3,858	4,259	7,862	3,913	7,460	1,720
Old and scrap	8,973	15,863	15,768	8,280	1,695	65
Portugal—						
Iron and steel ingots	13,537	12,933	10,452	12,306	12,202	1,749
Old and scrap	4,709	2,920	2,769	3,179	4,174	2,622
Spain—						
Pig-iron	1,963	1,455	1,285	14,384	2,615	1,048
Ferro-manganese	3,339	1,729	163	342	120	629
Other ferro-alloys	262	571	590	398	675	1,256
Ingots and blooms	4	223	5	1,444	858	130
Old and scrap	52,907	62,657	83,431	69,158	169,997	115,641
Sweden—						
Pig-iron	98,490	97,461	143,769	89,818	91,467	142,842
Spiegeleisen	30	76	221	88	59	98
Ferro-manganese	2,897	3,032	6,952	7,016	3,176	5,765
Ferro-chrome	1,350	1,883	8,082	5,430	2,398	6,318
Ferro-silicon and ferro-silico-manganese	436	1,735	5,110	4,249	2,319	6,024
Ferro-tungsten	—	49	158	141	62	185
Other ferro-alloys	459	1,097	1,919	4,139	1,314	1,518
Old and scrap	44,819	68,176	23,185	36,212	58,971	198,871
Switzerland—						
Pig-iron, steel billets, blooms, etc.	134,330	155,713	185,731	157,291	87,245	152,538
Ferro-alloys	3,411	4,036	4,580	4,490	5,201	4,230
Old, filings and scrap	12,198	28,602	22,910	12,134	9,717	48,613
U.S.S.R.—						
Pig-iron	<i>n.a.</i>	573,800	489,700	150,000	157,100	135,900
Ferro-alloys	<i>n.a.</i>	5,000	5,200	4,700	4,800	2,400

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

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

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Yugoslavia—						
Pig-iron	28,219	523	r 10,468	12,380	37,491	54,460
Ferro-alloys	343	373	683	553	537	854
Ingots	—	—	—	469	1	3,104
Scrap	75,245	21,831	21,987	55,975	36,916	20,010
Algeria—						
Pig-iron	873	1,102	491	413	495	641
Spiegeleisen and ferro-alloys	363	538	626	552	775	808
Ingots, blooms and billets	14,455	21,122	20,329	22,164	22,398	14,665
Old, filings and scrap ..	42	408	140	47	12	1,681
Belgian Congo—						
Pig-iron	1,214	3,017	1,686	647	289	95
Ferro-alloys	161	75	208	379	710	285
Egypt—						
Pig-iron and spiegeleisen	1,739	3,427	7,473	6,645	16,997	12,209
Ferro-alloys	690	1,286	1,157	3,286	2,587	4,911
Ingots, billets, etc. ..	1,611	2,158	535	200	2,976	26
Scrap	1,410	4,139	2,305	3,322	4,068	7,721
Morocco—						
Pig-iron	1,220	929	579	688	831	560
Ferro-alloys	112	146	151	138	141	96
Scrap, etc.	522	1,128	176	335	9,813	5,456
Sudan—						
Crude iron and steel ..	9,716	7,108	5,415	11,289	10,416	9,318
Tunisia—						
Pig-iron	66	77	59	106	144	189
Old and scrap	364	1,431	388	2,084	571	80
Cuba—						
Pig-iron	424	503	148	r 374	292	n.a.
Ingots, blooms, etc. ..	—	36	—	40,214	38,413	n.a.
Mexico—						
Pig-iron	344	5,347	27	—	5	—
Ferro-manganese	130	145	159	160	1,192	730
Other ferro-alloys	1,298	2,784	2,659	3,342	3,805	3,032
Ingots, blooms and billets	r 26,400	r 43,500	r 50,787	r 120,531	87,408	39,619
Scrap	166,278	206,359	302,892	293,608	288,036	378,445
Tin-plate scrap	32,891	24,208	28,740	15,933	6,446	10,804
Salvador—						
Ingots, blooms, billets	523	477	1,242	794	322	106
Scrap	187	462	859	420	274	298
United States—						
Pig-iron	259,568	253,177	291,697	201,238	187,271	626,533
Spiegeleisen	—	—	209	—	—	—
Ferro-chrome	14,976	27,054	35,607	42,562	22,124	83,331
Ferro-manganese	50,689	58,029	143,038	301,856	57,082	80,412
Ferro-silicon	15,885	21,749	19,658	17,772	10,369	15,588
Ferro-titanium	4	28	101	114	90	113
Ferro-tungsten	276	373	479	225	87	294
Sponge iron	3,446	4,000	3,552	1,442	1,303	1,522
Bar-iron, slabs, blooms, etc.	195	71	83	101	61	73
Steel ingots, blooms, etc.	7,842	130,447	23,341	6,953	16,016	81,937
Scrap	184,211	175,332	199,050	181,613	264,160	239,142
Tin-plate scrap	29,213	28,721	29,137	31,431	32,824	37,151

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

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Argentina—						
Pig-iron	27,029	186,891	56,096	136,889	93,281	135,456
Ferro-manganese	4,176	698	1,908	—	—	—
Ferro-silicon	969	623	—	17,870	17,946	9,578
Ingots	453,081	596,307	438,246	415,594	630,941	559,085
Old and scrap	—	—	—	—	—	909
Brazil—						
Ferro-manganese	166	49	—	73	63	819
Ferro-silicon	1,398	543	205	53	78	2,156
Ferro-chrome	114	54	44	83	250	269
Other ferro-alloys	227	120	84	169	193	71
Chile—						
Pig-iron	166	497	108	238	<i>n.a.</i>	<i>n.a.</i>
Ferro-manganese	4	22	29	—	<i>n.a.</i>	<i>n.a.</i>
Ferro-silicon	121	93	47	29	<i>n.a.</i>	<i>n.a.</i>
Other ferro-alloys	69	13	9	59	<i>n.a.</i>	<i>n.a.</i>
Steel ingots	291	—	—	—	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Pig-iron	1,270	199	—	—	—	5
Ingots, etc.	797	451	851	314	620	50
Blooms, billets, etc.	320	107	652	1	29	20
Ferro-alloys	1,094	590	1,761	2,161	976	4,058
Peru—						
Pig-iron	431	849	752	455	483	197
Ferro-alloys	85	239	280	326	334	460
Uruguay—						
Ingots	14,152	23,265	30,857	20,807	36,127	34,439
Ferro-alloys	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	308	290	328
Venezuela—						
Pig-iron and scrap	527	<i>r</i> 4,521	2,926	255	19,677	<i>n.a.</i>
Ferro-alloys	94	<i>r</i> 306	808	704	867	<i>n.a.</i>
Formosa—						
Blooms, billets, etc.	6,484	7,367	4,363	4,624	4,584	1,942
Ferro-alloys	504	405	608	902	884	326
Old and scrap	10,699	2,135	37,609	38,821	44,912	68,843
Iran (<i>a</i>)—						
Old and scrap	2,061	<i>n.a.</i>	4,288	3,548	1,746	<i>n.a.</i>
Israel—						
Pig-iron	2,507	2,808	2,903	10,371	14,306	24,044
Ferro-alloys	32	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	477	1,121
Japan—						
Pig-iron	2,815	18,225	307,949	930,467	2,290	272,621
Ferro-alloys	2,092	163	316	411	97	2
Ingots, blooms and billets	—	1	16,235	242,506	—	696
Old and scrap	962,682	1,266,633	2,537,273	3,275,553	1,326,785	3,987,543
Lebanon—						
Pig-iron	4,235	2,687	4,793	1,477	2,044	7,191
Ferro-alloys	2	279	59	4	5	63
Old and scrap	518	2,586	2,180	2,080	141	2,449
Philippine Republic—						
Pig-iron	482	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ferro-alloys	129	224	493	620	1,074	712
Ingots, blooms and billets	<i>n.a.</i>	<i>n.a.</i>	13,167	33,083	2,583	1,416
Syria—						
Pig-iron	1,326	364	347	188	867	842
Scrap	906	475	571	817	686	1,426
Thailand—						
Pig-iron	307	285	324	514	606	435
Ferro-alloys	201	158	307	321	495	791
Turkey—						
Ferro-alloys	952	132	711	357	1,049	369

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

LEAD
PRODUCTION OF LEAD ORE
(Metal content)

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Great Britain	8,692	7,443	7,267	8,094	4,165	1,934
Nigeria (a)	9	16	45	450	487	378
Northern Rhodesia (b) ..	15,000	16,050	15,200	15,078	13,043	14,400
Southern Rhodesia	—	14	17	23	—	—
South West Africa	68,881	80,700	86,348	82,453	74,818	69,242
Tanganyika (c)	2,118	3,601	5,116	4,851	4,465	5,715
Uganda	55	47	108	15	229	53
Union of South Africa	161	499	r 812	1,092	32	150
Canada (d)	195,085	181,037	168,620	162,039	166,679	166,513
Hong Kong	188	203	105	70	16	—
India	2,081	2,228	2,843	3,274	3,493	4,790
Australia	284,862	295,944	299,485	r 333,753	328,347	315,661
TOTAL	577,100	587,800	586,000	611,192	596,224	579,000
Irish Republic	1,349	2,617	2,285	2,000	368	1,520
OTHER COUNTRIES						
Austria	5,408	5,417	5,367	5,884	6,048	6,028
Bulgaria	48,000	47,545	54,000	62,100	69,500	n.a.
Czechoslovakia (e)	2,900	4,900	5,900	5,900	5,900	6,300
Finland (f)	257	762	1,389	2,342	2,216	1,893
France	11,000	8,985	8,732	12,090	13,149	17,000
Germany—						
Federal Republic	66,224	66,370	64,448	69,996	59,953	51,681
East (g)	5,000	6,000	6,000	7,000	7,000	7,000
Greece	3,166	4,532	6,348	6,373	8,820	n.a.
Italy	40,158	44,767	45,759	49,104	53,589	47,970
Norway	695	699	792	884	2,099	2,220
Poland (b)	31,400	33,700	34,600	35,137	35,200	38,100
Portugal	1,724	1,441	1,218	1,355	888	31
Roumania (b)	(g) 10,000	10,900	(g) 11,000	(g) 11,000	(g) 11,000	(g) 11,000
Spain	54,860	62,407	60,207	64,191	68,491	68,992
Sweden	29,224	31,660	32,230	35,893	41,602	47,609
U.S.S.R. (b) (g)	r 220,000	r 250,000	r 260,000	r 280,000	300,000	320,000
Yugoslavia	82,799	88,659	85,945	88,664	88,423	90,989
Algeria	10,041	10,040	10,196	10,269	9,568	10,081
Angola (i)	—	184	92	17	88	12
Belgian Congo	164	81	(e) 100	(e) 200	—	—
Egypt	128	128	118	250	(e) 290	(e) 290
French Equatorial Africa ..	3,428	3,405	2,960	1,810	3,200	4,600
Morocco	81,785	87,959	86,050	91,300	91,437	90,300
Tunisia	26,305	26,145	23,078	23,525	22,160	17,860
Cuba	—	62	84	63	n.a.	—
Greenland	—	—	3,000	7,332	8,588	10,386
Guatemala	2,328	4,539	8,006	11,192	7,846	5,697
Honduras	1,148	1,751	2,067	(h) 2,638	3,018	(h) 3,249

(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): 1955—167; 1956—62; 1957—4; 1958—80; 1959—12.

PRODUCTION OF LEAD ORE (cont.)

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Mexico (a)	213,203	207,486	196,457	211,482	198,734	187,472
United States (a)	290,553	301,808	315,023	301,979	238,729	228,202
Argentina	(b) 18,800	22,300	28,823	30,500	29,000	30,000
Bolivia (c)	17,939	18,821	21,213	25,802	22,432	21,690
Brazil (d)	2,702	3,596	4,371	3,462	4,269	(e) 7,400
Chile	3,963	3,905	3,212	2,775	2,514	(e) 2,000
Ecuador	r 108	r 83	r 114	r 108	118	105
Peru	108,328	116,875	127,036	134,986	132,043	116,891
Burma	14,000	16,856	15,586	14,612	18,911	19,000
China (e)	10,000	r 29,000	r 36,000	r 38,000	46,000	64,000
Iran (e) (f)	11,900	17,800	16,700	16,700	16,700	14,700
Japan	22,478	25,761	29,058	35,502	35,939	35,393
Korea (South) (b)	50	600	1,300	850	1,200	200
Korea (North) (e)	2,900	7,900	14,000	16,700	16,700	16,700
Philippine Republic	1,798	2,281	2,106	801	1,264	349
Thailand	5,165	5,233	3,946	2,987	979	1,500
Turkey	10,013	3,447	5,573	4,146	3,019	2,137
TOTAL	1,500,000	1,600,000	r 1,600,000	r 1,700,000	1,700,000	1,700,000
WORLD'S TOTAL	2,100,000	2,200,000	r 2,200,000	r 2,300,000	2,300,000	2,300,000

(a) Amount estimated as recoverable.

(b) Estimated.

(c) Exports.

(d) Smelter.

(e) United States Bureau of Mines' estimate.

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

METAL PRODUCTION OF LEAD

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom ..	(a) 6,800	(a) 6,100	6,699	7,431	3,710	1,410
Northern Rhodesia ..	15,000	16,050	15,200	15,078	13,043	14,400
Canada	148,219	132,867	132,022	127,621	118,738	120,889
India	1,788	2,234	2,497	r 3,175	3,334	3,895
Australia (c) ..	238,555	224,526	236,164	239,052	248,645	236,116
TOTAL	410,400	381,800	r 392,600	392,357	387,470	376,700
OTHER COUNTRIES						
Austria (b)	10,082	10,105	9,887	10,762	11,386	9,790
Belgium (b)	70,768	81,469	100,638	97,696	92,324	87,044
Bulgaria	3,000	3,300	5,913	18,995	25,658	32,000
Czechoslovakia (a) ..	8,000	8,000	9,000	9,000	9,000	9,000
France	60,446	68,272	62,324	72,622	72,118	68,800
Germany—Federal ..	108,486	105,887	114,658	135,665	132,130	147,172
do. East (a) (b) ..	30,000	30,000	30,000	22,100	25,000	25,000
Greece	2,716	2,478	3,405	3,560	3,866	(d) 4,900
Italy	36,391	41,826	r 40,037	r 39,022	47,243	44,320
Poland	31,400	33,700	34,600	35,137	35,200	38,100
Portugal	990	957	838	740	1,644	782
Roumania	(a) 10,000	10,900	(a) 11,000	(a) 11,000	(a) 11,000	(a) 11,000
Spain	57,694	60,832	64,724	r 58,019	69,401	67,408
Sweden	19,774	20,890	22,815	24,483	32,548	36,267
U.S.S.R. (a)	r 220,000	r 250,000	r 260,000	r 280,000	300,000	320,000
Yugoslavia	65,675	74,418	74,562	77,264	82,950	84,046
Morocco	26,266	26,268	27,672	30,752	32,601	28,000
Tunisia	26,761	25,406	23,768	24,168	24,748	21,500
Guatemala	(d) 98	—	131	—	—	50
Mexico	205,863	195,050	193,591	197,703	192,622	185,967
United States (e) ..	434,486	427,674	484,171	476,315	419,090	304,362
Argentina	25,600	17,700	23,900	25,500	32,300	33,600
Bolivia (f)	1,446	2,080	1,572	2,314	784	261
Brazil	2,702	3,596	4,371	3,462	4,269	(d) 7,400
Chile	—	495	217	—	285	—
Peru	56,906	59,509	58,864	67,843	63,433	55,871
Burma	10,944	19,088	19,543	19,478	17,098	19,337
China (a) (b)	14,700	17,200	20,000	r 25,000	30,000	50,000
Iran (g)	1,000	1,220	1,411	(d) 690	935	(d) 900
Japan	29,030	32,498	40,756	48,281	37,869	59,957
Korea (North) (d) ..	2,900	7,900	14,000	16,700	16,700	16,700
Turkey	(d) 1,470	(d) 1,560	(d) 2,000	(d) 2,000	2,657	1,612
TOTAL	1,600,000	r 1,600,000	1,800,000	r 1,800,000	1,800,000	1,800,000
WORLD'S TOTAL ..	2,000,000	r 2,000,000	2,200,000	r 2,200,000	2,200,000	2,200,000

(a) Estimated.

(b) Including secondary metal.

(c) Including lead in base bullion as follows :

Year	Long tons	Year	Long tons
1954	38,146	1957	46,891
1955	37,392	1958	57,171
1956	41,658	1959	50,310

(d) United States Bureau of Mines' estimate.

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

Year	Long tons	Year	Long tons
1954	429,397	1957	436,812
1955	448,260	1958	358,738
1956	452,460	1959	403,024

(f) Exports.

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

EXPORTS OF LEAD, ETC.

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Pig-lead	7,195	3,160	7,141	10,962	12,732	9,340
Sheets and pipes	1,105	1,769	1,652	1,811	1,786	1,588
White lead	1,523	1,776	1,663	1,744	1,815	1,769
Litharge, red lead, etc.	3,789	3,397	2,437	2,953	3,815	3,532
Nigeria—						
Ore and concentrates	154	73	105	908	780	1,208
Rhodesia and Nyasaland—						
Ore	—	—	8	96	—	—
Pig, bar and ingot	13,306	12,520	14,620	12,260	10,938	13,124
South West Africa—						
Complex concentrates (Pb content)	(b) 61,521	(b) 76,854	(b) 81,558	81,097	73,692	61,192
Lead-vanadium concentrates	n.a.	6,842	5,368	3,731	3,578	4,612
Tanganyika—						
Concentrates (Pb content)	2,118	3,601	5,116	4,851	4,465	5,715
Uganda—						
Ore	66	74	117	61	100	200
Union of South Africa—						
Ore	—	—	298	1,398	—	—
Pig, ingot and sheets	184	85	17	67	96	65
Canada—						
Ore (Pb content)	53,353	51,932	44,620	39,435	48,287	47,970
Pig-lead, etc.	103,937	82,772	71,101	75,483	82,456	82,368
Scrap	777	559	145	304	385	270
Pipes and tubes	25	20	19	24	5	7
White lead	5	6	7	15	591	745
Hong Kong—						
Ore and concentrates	335	376	200	175	117	—
Crude and refined unwrought (a)	223	412	160	75	267	382
Scrap	n.a.	15	76	16	104	70
Bars, sheets, pipes, etc.	15	135	23	12	6	6
Malaya (a)—						
Pig-lead	848	761	697	464	686	884
Bars, sheets, pipes, etc.	35	15	18	13	20	19
Australia (c)—						
Ores and concentrates (Pb content)	51,778	46,114	46,401	60,431	72,515	69,574
Pig-lead	170,207	140,256	145,987	167,380	164,060	143,828
Base bullion (Pb content)	33,623	40,533	29,603	53,156	48,166	59,273
Scrap	14,332	13,277	10,011	9,230	6,573	2,970
Sheets and pipes, etc.	633	2,802	65	206	99	93
Red and white lead, etc.	2,440	1,729	1,644	1,455	1,477	1,489
New Zealand—						
Scrap	833	n.a.	n.a.	n.a.	n.a.	n.a.
Irish Republic—						
Ore	1,689	2,881	4,022	3,162	882	2,121
Scrap	2,105	2,495	1,004	441	416	356

(a) Including alloys.

(b) Including lead content of lead-vanadium concentrates.

(c) Years ended June 30 of that stated.

EXPORTS OF LEAD, ETC. (cont.)

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
Austria—						
Pig-lead (a)	3,021	3,317	3,655	3,484	3,205	3,336
Scrap	27	206	—	64	15	—
Red and white lead, etc.	371	439	335	466	461	678
Belgium-Luxemburg						
E.U.—						
Pig-lead	47,615	53,691	72,058	59,743	64,280	53,587
Antimonial lead	575	1,007	330	812	1,093	1,596
Scrap	176	660	458	140	2,641	555
Sheets, bars, pipes and wire	4,083	3,208	4,359	4,393	3,807	5,016
Red and white lead, etc.	3,784	3,627	3,163	3,852	3,268	3,163
Denmark—						
Pig-lead	6,233	4,850	2,699	6,413	9,869	7,969
Pig-lead, alloyed	1,687	3,434	4,713	3,399	3,731	3,773
Scrap	551	198	507	738	180	24
Sheets, pipes and wire(a)	—	1	1	2	1	48
Finland—						
Pig-lead, scrap, bars, sheets, etc.	286	78	1,075	—	1,222	400
France—						
Ore	367	1,127	274	1,901	1,983	4,536
Pig-lead including argentiferous	14,073	13,597	6,740	10,851	15,171	11,478
Pig-lead, alloyed	398	552	547	367	1,407	1,462
Scrap	2	74	62	23	3	56
Bars, sheets and wire	1,149	824	513	478	516	741
Red and white lead, etc.	2,363	3,901	4,494	4,595	4,692	6,430
Germany (Federal)—						
Ore	—	223	—	6,709	176	26
Pig-lead and scrap (a)	30,831	31,441	37,059	37,633	27,359	27,299
Bars, sheets, wire, etc.	3,801	1,891	1,307	1,855	2,373	3,039
Red and white lead	10,313	9,978	9,920	9,251	7,861	10,975
Greece—						
Ore	2,150	4,296	6,772	10,487	16,952	14,299
Pig-lead, etc.	548	248	r 602	—	330	n.a.
Italy—						
Ore	8,536	10,254	8,651	7,959	13,611	10,142
Pig-lead and scrap (a)	67	15	5	280	1,069	286
Bars, sheets and wire (a)	17	—	4	4	10	9
Red and white lead	442	146	77	52	24	178
Netherlands—						
Pig-lead	7,831	4,089	6,265	7,117	3,769	5,417
Antimonial lead	1,292	727	1,463	1,427	868	606
Scrap	1,827	722	383	779	772	1,013
Bars, sheets and wire	1,037	1,265	1,368	1,287	1,657	3,017
Red and white lead	1,153	1,147	1,747	2,161	1,920	1,811
Norway—						
Ore	887	933	1,317	1,472	3,478	3,400
Pig-lead	(a) 347	(a) 247	(a) 114	(a) 47	(a) 184	10
Scrap	1,395	1,449	1,964	1,866	1,672	1,628
Portugal—						
Pig-lead, etc.	12	12	20	18	14	9
Red and white lead	8	7	5	9	6	9
Spain—						
Pig-lead and scrap	26,320	28,249	16,344	11,541	23,093	29,387
Sheets, wire, etc.	124	66	1,145	347	50	1,036

(a) Including alloys.

EXPORTS OF LEAD, ETC. (cont.)

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
Sweden—						
Ore	9,950	12,777	15,090	17,722	12,425	12,296
Pig-lead	5,738	4,710	5,093	9,967	16,693	18,770
Scrap	195	385	486	232	52	157
Sheets and pipes	8	—	3	41	11	1
Red and white lead, etc.	464	735	681	847	1,267	1,462
Switzerland—						
Ores, etc.	1,139	810	805	867	563	972
Pig-lead, scrap, etc.	1,077	1,505	1,664	1,341	1,454	1,555
Sheets and pipes	8	5	—	1	25	1
U.S.S.R.—						
Pig-lead	<i>n.a.</i>	25,800	39,900	54,000	61,200	56,300
Yugoslavia—						
Pig-lead	56,188	61,657	57,662	62,986	61,438	60,519
Antimonial lead	—	263	595	738	344	2,072
Scrap	554	71	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Plates and sheets	71	105	529	120	7	276
Red lead	187	350	570	151	187	154
Algeria—						
Ore	15,823	12,292	9,345	8,514	11,290	8,566
Pig-lead	2,136	38	24	12	40	27
Scrap	1,920	2,415	2,085	1,510	2,286	2,485
Red and white lead	3	—	—	7	2	5
Angola—						
Ore	—	—	58	15	9	—
Belgian Congo—						
Ore	<i>n.a.</i>	<i>n.a.</i>	381	1,225	—	—
Egypt—						
Ore	915	970	40	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
French Equatorial Africa—						
Ore	6,937	5,905	5,905	3,937	5,643	8,568
Morocco—						
Ore	74,829	94,413	90,786	98,116	116,787	100,519
Pig-lead	28,485	24,855	26,575	30,436	26,558	29,102
Scrap	184	211	452	151	44	—
Tunisia—						
Ore	1,675	2	937	2	—	—
Pig-lead and scrap	25,400	24,293	25,623	22,828	23,438	19,746
Greenland—						
Ore	—	1	3,605	8,327	9,435	10,654
Guatemala—						
Ore	3,135	6,912	17,293	18,024	14,565	5,722
Honduras—						
Ore and concentrates	2,093	3,190	4,073	5,680	5,486	7,632
Mexico—						
Ores and concentrates	2,702	4,060	3,764	4,878	2,343	1,654
Pig-lead, refined	197,864	166,411	143,074	153,329	141,170	133,913
Base bullion	300	4,053	3,019	942	1,721	1,562
Pig-lead, antimonial	2,357	10,728	7,280	11,827	5,738	12,138
Sheets, tubes and wire	790	5,835	13,359	5,969	595	—
Red and white lead	720	1,280	5,956	8,600	8,775	12,168
United States—						
Ore, mattes and base bullion (<i>Pb content</i>)	91	1,191	942	809	904	200
Pig-lead, bars, etc.	532	360	4,133	3,874	1,213	2,460
Antimonial lead	179	362	710	513	<i>n.a.</i>	<i>n.a.</i>
Scrap	3,476	2,664	1,907	790	906	1,019
Sheets and pipes	333	498	494	1,098	<i>n.a.</i>	<i>n.a.</i>
Red and white lead, etc.	2,294	2,447	2,684	3,514	3,076	2,838
Argentina—						
Ore	—	—	—	1,411	9	—
Pig-lead and bars	—	—	—	50	—	—

EXPORTS OF LEAD, ETC. (cont.)

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
Bolivia—						
Ore, etc. (<i>Pb content</i>) ..	16,493	16,741	19,641	23,488	21,648	21,429
Metal	1,446	2,080	1,572	2,314	784	223
Chile—						
Ore	1,051	5,520	3,455	4,607	4,883	<i>n.a.</i>
Colombia—						
Ore	663	886	2,339	7	597	952
Ecuador—						
Concentrates	184	154	212	186	269	692
Peru—						
Ore and concentrates (<i>Pb content</i>)	48,670	48,120	60,341	55,603	70,574	58,443
Pig-lead (<i>Pb content</i>)—						
Pure	55,183	56,240	58,086	61,678	63,400	54,612
Impure	876	831	321	234	213	—
Burma—						
Ore	844	1,822	1,867	2,765	911	900
Pig-lead	9,940	15,565	14,466	13,433	15,236	20,634
Iran (<i>a</i>)—						
Ore	<i>n.a.</i>	<i>n.a.</i>	37,851	26,040	22,182	<i>n.a.</i>
Japan—						
Pig-lead	437	120	107	35	82	53
Sheets and plates ..	18	13	61	21	122	57
Tubes	24	67	36	14	69	58
Korea (South)—						
Ore	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	2,401	1,721
Philippine Republic—						
Ores and concentrates..	2,270	292	105	727	772	177
Thailand—						
Ore	<i>n.a.</i>	<i>n.a.</i>	7,858	8,518	3,083	3,248
Turkey—						
Ore	1,378	—	—	—	—	3,199
Ingots	197	—	—	—	—	—

(a) Years ended March 20 following that stated.

IMPORTS OF LEAD, ETC.

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Pig-lead	192,301	216,179	167,366	157,780	162,419	175,246
Scrap (a)	7,766	7,684	6,413	4,544	1,812	2,098
Sheets and pipes	28	10	75	137	248	216
Litharge, red lead, etc.	62	1	11	—	—	—
Ghana—						
Bars, sheets, etc. (a)	369	288	269	270	371	277
Kenya—						
Pig lead (a)	54	91	83	83	90	82
Bars, sheets, pipes, etc. (a)	8	64	41	34	18	12
Mauritius—						
Pig-lead, sheets, pipes, etc. (a)	45	32	16	66	81	44
Nigeria—						
Bars and sheets	236	200	251	292	524	534
Rhodesia and Nyasaland—						
Pig-lead, bars, sheets and foil	235	89	16	236	77	82
Red and white lead, etc.	31	41	46	r 51	103	164
Sierra Leone—						
Bars and sheets	4	7	16	15	10	13
South West Africa—						
Bars, sheets and pipes	23	(b)	(b)	(b)	(b)	(b)
Red and white lead, etc.	1	(b)	(b)	(b)	(b)	(b)
Tanganyika—						
Pig lead (a)	7	32	36	41	17	7
Bars, sheets and pipes, etc. (a)	15	28	21	12	16	7
Uganda—						
Pig lead (a)	4	19	30	12	19	24
Bars, sheets, pipes, etc. (a)	2	30	16	11	10	2
Union of South Africa—						
Pig-lead and bars	11,232	(c) 10,959	(c) 14,529	(c) r 14,153	(c) 15,551	(c) 13,026
Sheets and pipes	75	(c) 170	(c) 174	(c) 73	(c) 133	n.a.
Foil	3	(c) 3	(c) 3	(c) 4	(c) 3	n.a.
Litharge, red and white lead	120	(c) 95	(c) 119	(c) 171	(c) 240	n.a.
British West Indies—						
Jamaica—						
Pig-lead, pipes, etc. (a)	245	173	313	243	250	168
Trinidad and Tobago—						
Pig-lead	7	—	18	4	—	6
Red and white lead, etc.	60	82	98	47	33	31
Canada—						
Pig-lead and scrap	126	135	148	1,419	1,598	1,837
Bars, sheets and pipes	27	61	68	38	44	117
White lead, red lead and litharge	1,001	1,129	1,170	1,388	1,524	1,346
Ceylon—						
Pig-lead, etc. (a)	—	79	612	135	162	92
Sheets, pipes, etc. (a)	20	22	25	30	12	23
Tea-lead (a)	5	1	8	4	—	—
Cyprus—						
Sheets and pipes, etc.	25	36	44	37	32	41
Hong Kong—						
Pig-lead (a)	361	121	114	93	123	336
Scrap	20	6	18	9	28	38
Bars, sheets, pipes, etc.	69	77	58	91	155	88

(a) Including alloys.

(c) Including South West Africa.

(b) Included under Union of South Africa.

IMPORTS OF LEAD, ETC. (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES (cont.)						
India—						
Ore	99	224	525	102	110	130
Pig-lead, bars, etc. ..	10,995	11,803	15,829	13,831	21,105	23,034
Sheets, pipes and tubes	38	191	379	286	16	70
Tea-lead	—	—	—	8	—	—
Litharge, red and white lead, etc.	45	249	635	13	2	23
Malaya—						
Pig-lead (a)	105	177	200	254	204	296
Bars, sheets, pipes, etc.(a)	75	190	137	97	117	73
Pakistan—						
Ore	(b) 106	(b) 370	270	96	70	98
Pig-lead, bars, etc. ..	(b) 60	(b) 53	155	255	247	588
Sheets, pipes and tubes	(b) n.a.	(b) n.a.	57	156	244	35
Litharge, red and white lead, etc.	(b) 298	(b) 233	219	r 256	564	297
Australia (c)—						
Red and white lead, etc.	23	(d) 3	61	41	28	97
Fiji—						
Pig-lead, sheets, tubes, etc.	6	24	46	66	24	10
New Zealand—						
Pig-lead, bars, etc. ..	5,539	r 5,049	r 5,264	r 3,552	5,012	2,714
do. antimonial	116	r 115	r 211	r 1,061	206	1,111
Sheets and pipes	5	56	(d) 3	4	5	5
Litharge, red and white lead, etc.	1,862	r 1,338	r 1,505	r 1,475	1,575	1,507
Irish Republic—						
Pig-lead, etc.	1,212	543	236	219	258	419
Wrought (a)	173	301	279	87	230	130
OTHER COUNTRIES						
Austria—						
Ore	4,862	5,177	4,886	5,000	5,492	5,118
Pig-lead (a)	9,668	5,273	4,974	6,041	8,169	9,367
Scrap	15	—	—	15	11	—
Belgium-Luxemburg E.U.—						
Ore	86,084	150,928	168,076	157,901	169,112	151,180
Pig-lead	21,506	18,056	19,729	18,194	15,520	17,469
Antimonial lead	84	93	32	150	196	179
Scrap	416	1,000	1,309	1,307	796	1,109
Sheets, bars, pipes and wire	20	79	37	31	126	417
Red and white lead, etc.	1,395	1,500	1,810	1,834	1,305	1,374
Denmark—						
Pig-lead	16,392	12,967	11,012	16,906	22,250	23,052
do. alloyed	541	168	794	87	47	949
Scrap	5,467	5,059	5,256	5,677	3,525	4,813
Sheets, pipes and wire(a)	83	12	11	29	27	97
Red and white lead ..	751	738	881	710	741	1,838

(a) Including alloys.

(c) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

(d) Excess of re-exports.

IMPORTS OF LEAD, ETC. (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Finland—						
Pig-lead	12,401	7,590	8,967	15,341	9,691	10,116
Scrap	14	—	—	—	—	—
Sheets, pipes, wire, etc.	565	527	571	541	733	1,009
Red and white lead, etc.	1,081	1,131	1,026	514	558	582
France—						
Ore	84,365	107,031	105,277	98,961	105,988	102,495
Pig-lead, including argentiferous .. .	48,531	47,442	55,429	49,171	48,895	44,364
Pig-lead, alloyed .. .	696	794	868	1,519	1,442	810
Scrap	7,416	13,150	6,950	3,798	5,562	3,675
Bars, sheets and wire .. .	22	7	4	8	1	6
Red and white lead, etc.	3,641	1,727	938	584	418	1,613
Germany (Federal)—						
Ore	80,613	72,458	83,431	95,918	127,821	140,707
Pig-lead and scrap (a) .. .	58,418	83,182	53,481	44,348	47,567	67,099
Bars, sheets, wire, etc. .. .	4	—	—	—	8	31
Red and white lead, etc.	351	702	938	698	1,919	2,865
Hungary—						
Pig-lead	6,726	5,741	7,711	7,298	7,712	8,331
Iceland—						
Pig-lead	103	99	94	101	141	165
Bars, sheets, wire, etc. .. .	22	22	24	24	24	29
Red and white lead .. .	31	9	16	13	22	28
Italy—						
Ore	2,096	7,601	1,762	607	255	77
Pig-lead and alloys .. .	13,320	14,505	11,998	14,709	13,357	16,128
Scrap	11,656	7,608	4,877	3,803	4,216	2,823
Bars, sheets and wire (a) .. .	3	235	—	18	22	55
Red and white lead .. .	122	252	122	206	305	354
Netherlands—						
Ore	5,996	31	12	19	12	4
Pig-lead	43,501	31,611	40,182	36,716	31,140	35,557
Antimonial lead .. .	297	592	776	7,406	1,960	8,659
Scrap	1,339	2,404	4,197	3,952	3,121	2,238
Bars, sheets and wire .. .	995	663	1,318	1,222	807	1,616
Red and white lead .. .	4,293	4,773	5,680	5,698	5,309	5,494
Norway—						
Pig-lead	9,693	9,529	7,807	9,596	9,551	8,176
Bars, sheets, wire, etc. .. .	1,420	817	1,168	802	930	821
Red and white lead .. .	533	584	484	508	532	659
Portugal—						
Pig-lead, alloys, etc. .. .	1,967	3,141	2,903	4,796	6,260	5,560
Red and white lead, etc.	202	144	122	152	150	116
Spain—						
Pig-lead and scrap .. .	13	11	6	20	1	31
Sweden—						
Pig-lead	13,415	14,603	12,891	14,518	11,185	9,384
Scrap	397	292	181	1,132	121	142
Sheets and pipes .. .	1,463	1,267	1,292	1,360	1,426	1,660
Red and white lead .. .	2,393	2,314	1,987	1,506	1,103	1,044
Switzerland—						
Ores, etc.	—	3	1	2	4	1
Pig-lead, scrap, etc. .. .	15,425	15,761	14,132	15,604	17,544	16,972
Sheets, pipes, wire, etc. .. .	959	624	457	496	534	570
Red and white lead .. .	454	504	604	746	653	604
U.S.S.R.—						
Pig-lead	<i>n.a.</i>	17,300	26,300	27,300	29,700	36,700

(a) Including alloys.

IMPORTS OF LEAD, ETC. (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
Algeria—						
Ore	25	37	47	38	45	35
Pig-lead	4,541	3,529	3,353	2,221	2,377	3,862
Scrap	56	12	84	—	—	—
Bars, sheets and wire ..	155	192	226	115	159	174
Red and white lead, etc.	181	163	132	128	161	147
Angola—						
Bars and sheets	18	11	14	20	7	13
Red and white lead	26	22	38	54	34	52
Belgian Congo—						
Pig-lead and scrap	47	1,615	2,059	78	59	58
Red and white lead	116	273	108	131	102	108
Egypt—						
Pig-lead and scrap	35	105	1,429	r 167	768	3,026
Sheets, pipes, wire, etc.	107	73	106	23	31	3
Red and white lead	388	565	746	r 355	1,062	822
Malagasy Republic—						
Pig lead, bars, sheets (a)	51	44	75	80	82	120
Red and white lead	36	61	38	46	43	16
Morocco—						
Pig-lead, bars, sheets, etc.	231	437	99	99	78	64
Red and white lead	103	162	76	69	100	84
Mozambique—						
Bars, sheets and wire	26	25	23	30	41	41
Red and white lead	29	14	41	15	9	45
Tunisia—						
Ore	924	82	1	1	1	1
Red and white lead, etc.	33	33	20	39	27	85
Costa Rica—						
Pig lead	4	42	58	40	22	68
Cuba—						
Pig-lead and bars	100	157	135	344	241	n.a.
Sheets, pipes and wire ..	178	195	261	193	199	n.a.
Mexico—						
Pig-lead	15	30	14	17	10	12
Sheets and pipes	14	3	61	20	1	2
United States—						
Ore, matte and flue dust (Pb content)	175,048	139,672	170,805	209,479	212,165	122,050
Bullion and base bullion (Pb content)	37	—	28	23	371	31
Pig-lead and bars (Pb content)	244,899	235,694	234,111	287,239	314,071	234,493
Scrap (Pb content)	6,644	16,914	18,271	r 6,764	7,696	7,051
Sheets, pipes, wire, etc.	354	1,828	6,834	5,283	2,344	3,221
Red and white lead, etc.	559	704	4,984	7,591	7,589	11,538
Brazil—						
Pig-lead	26,054	12,810	9,703	19,967	11,653	11,978
Sheets and pipes	30	—	—	23	—	—
Red and white lead	817	563	315	405	656	636
Chile—						
Pig-lead	1,280	2,019	1,027	262	391	1,201
Bars and sheets	31	203	239	258	n.a.	342
Red and white lead	86	80	148	102	n.a.	n.a.
Colombia—						
Pig-lead (a)	580	701	1,253	1,109	1,610	1,267
Sheets, pipes, wire, etc.	100	117	68	167	59	130
Red and white lead	170	278	369	826	497	356
Ecuador—						
Pig-lead	207	92	139	108	91	139
Red and white lead	22	11	19	210	38	40

(a) Including alloys.

IMPORTS OF LEAD, ETC. (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
Peru—						
Pig-lead, sheets, etc. . .	20	83	35	27	12	18
Red and white lead . .	202	169	176	225	122	73
Uruguay—						
Pig-lead	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	2,085	1,683	2,280
Red and white lead, etc.	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	236	90	277
Venezuela—						
Pig-lead	570	529	573	2,148	1,102	<i>n.a.</i>
Red and white lead . .	249	380	678	862	912	<i>n.a.</i>
Formosa—						
Pig-lead and bars . .	2,099	1,434	1,467	1,057	1,870	1,230
Pipes, sheets, wire . .	38	13	41	75	44	25
Red and white lead, etc.	302	178	34	122	136	141
Indonesia—						
Pig-lead and scrap . .	414	1,073	838	490	361	1,527
Red and white lead . .	206	536	554	598	402	293
Iran (a)—						
Ingots, sheets and wire .	—	<i>n.a.</i>	15	2	<i>n.a.</i>	<i>n.a.</i>
Israel—						
Pig-lead	529	477	334	327	857	883
Sheets	69	58	22	63	53	111
Red and white lead . .	894	378	94	449	635	<i>n.a.</i>
Japan—						
Ore	16,361	27,180	24,944	46,911	26,694	37,786
Pig-lead	14,120	4,019	17,662	39,547	3,340	2,027
Scrap	4,187	3,668	1,447	1,430	1,546	1,128
Plates and sheets . .	11	13	83	153	94	11
Red and white lead . .	10	4	1	2	1	2
Lebanon—						
Pig-lead	300	361	135	258	213	339
Red and white lead . .	49	107	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Philippine Republic—						
Pig-lead, bars and sheets	483	<i>n.a.</i>	703	839	1,183	1,261
Red and white lead . .	441	425	1,021	809	1,038	1,155
Syria—						
Pig-lead	132	194	145	438	297	282
Red and white lead . .	41	54	53	51	58	111
Thailand—						
Pig-lead	265	403	82	395	515	1,026
Bars, sheets, wire . .	<i>n.a.</i>	57	204	180	107	66
Turkey—						
Pig-lead	1,993	599	1,782	869	330	2,328
Bars, sheets, wire, etc. .	599	518	559	342	11	184
Red and white lead . .	571	151	308	220	684	1,054

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

LITHIUM MINERALS
PRODUCTION OF LITHIUM MINERALS

Long tons

Producing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Southern Rhodesia—						
Amblygonite	387	161	577	109	1,638	<i>n.a.</i>
Eucryptite	—	11	—	50	355	<i>n.a.</i>
Lepidolite	24,026	51,530	75,535	83,522	57,767	<i>n.a.</i>
Petalite	23,846	21,616	12,075	8,870	11,755	<i>n.a.</i>
Spodumene	—	45	3,969	4,999	4,677	<i>n.a.</i>
South West Africa—						
Amblygonite	1,046	1,262	742	478	477	216
Lepidolite	3,730	1,636	1,017	787	931	1,936
Petalite	1,729	4,712	3,281	4,754	6,612	2,488
Spodumene	1	—	—	—	—	—
Uganda—						
Amblygonite	7	—	—	5	—	—
Union of South Africa—						
Amblygonite	51	380	637	27	—	9
Canada—						
Lithium minerals (Li ₂ O content)	8	51	2,138	2,295	1,720	1,115
Australia—						
Petalite	15	—	—	—	68	—
Spodumene	—	4	—	—	—	—
OTHER COUNTRIES						
Portugal—						
Amblygonite	9	4	—	—	—	—
Spain—						
Amblygonite	132	111	51	6	—	<i>n.a.</i>
Belgian Congo—						
Amblygonite	365	1,332	1,782	2,070	10	2,648
Spodumene (b)	32	25	64	1	—	—
Mozambique—						
Amblygonite	—	—	34	—	—	—
Lepidolite	—	—	986	338	86	89
Petalite	—	—	25	—	—	—
United States (a)—						
Lithium minerals and compounds	33,777	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Argentina—						
Spodumene	—	37	138	20	166	<i>n.a.</i>
Brazil—						
Amblygonite ^(b)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	493	—	527
Spodumene (b)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	—	157	418

(a) Shipments from mine.

(b) Exports.

EXPORTS OF LITHIUM MINERALS

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Rhodesia and Nyasaland—						
Lithium minerals	25,625	25,627	69,814	34,012	149,125	51,697
Lithium salts	<i>n.a.</i>	47	42	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
South West Africa—						
Amblygonite	710	1,310	593	828	627	117
Lepidolite	3,491	1,330	504	1,341	358	1,609
Petalite	740	1,159	3,216	5,765	4,704	1,261
Uganda—						
Amblygonite	7	—	—	—	—	—
Union of South Africa—						
Lithium minerals	24	479	496	—	—	—
OTHER COUNTRIES						
Belgian Congo—						
Amblygonite	—	808	591	1,129	1,632	2,943
Spodumene	32	25	64	1	—	—
Mozambique—						
Lepidolite	—	3	—	49	157	—
Brazil—						
Amblygonite	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	493	—	527
Spodumene	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	—	157	418

IMPORTS OF LITHIUM MINERALS*

Long tons

Importing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom (a) ..	2,000	2,000	7,100	4,800	6,000	5,100
OTHER COUNTRIES						
France (a)	600	600	3,200	5,400	500	400
Germany (Federal) ..	7,183	5,402	2,223	4,290	4,882	7,730
Netherlands (a)	2,000	2,600	1,900	3,200	5,800	6,400
United States (a)	22,700	20,900	57,300	26,100	139,700	38,900

*Imports of lithium minerals are not separately recorded in the trade returns of any principal importing country.

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

MAGNESITE AND DOLOMITE
PRODUCTION OF MAGNESITE AND DOLOMITE

Long tons

Producing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Magnesite—						
Caustic (a)	1,122	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Dead-burned (a) ..	71,989	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Dolomite, crude ..	2,092,649	2,131,418	2,283,040	2,559,049	(f)2,457,000	(f)2,657,000
Kenya—						
Magnesite, crude ..	—	—	—	105	492	2,808
Southern Rhodesia—						
Magnesite, crude ..	6,957	10,366	7,688	2,598	—	—
Dolomite	3,554	1,884	6,620	1,225	593	423
Tanganyika—						
Magnesite, crude ..	—	346	298	(c) 254	(c) 301	(c) 105
Union of South Africa—						
Magnesite, crude ..	23,995	17,637	29,897	31,620	71,607	52,574
Canada—						
Magnesitic dolomite (b)	£699,327	£782,480	£1,012,066	£1,136,678	£926,433	£1,113,134
India—						
Magnesite, crude ..	70,507	57,509	91,711	88,885	102,590	155,472
Dolomite	137,754	90,156	r 98,857	140,961	174,666	320,113
Australia—						
Magnesite, crude ..	43,152	57,674	64,685	83,473	69,391	61,266
Dolomite	127,994	111,417	115,564	192,103	158,148	175,350
New Zealand—						
Magnesite, crude ..	720	388	730	602	1,200	<i>n.a.</i>
Dolomite	2,025	1,813	2,023	2,784	3,052	3,165
OTHER COUNTRIES						
Austria—						
Magnesite—						
Crude	825,900	976,048	1,066,520	1,154,078	1,201,906	1,182,239
Caustic (d)	87,697	91,447	88,359	98,364	98,688	101,700
do. powder (d) ..	25,770	33,494	40,039	38,872	38,132	39,900
Dead-burned (d) ..	266,490	342,414	384,154	418,263	413,803	376,700
Bricks (d)	163,877	181,203	r 214,607	236,094	227,350	183,240
Belgium—						
Dolomite—						
Crude	233,027	252,177	286,014	319,981	363,397	378,080
Calcined	204,083	244,914	257,693	246,804	241,123	248,430
Bulgaria—						
Magnesite, crude ..	82,771	111,215	138,871	(e) 137,800	(e) 147,600	(e) 147,600
France—						
Dolomite, crude ..	449,014	448,742	403,484	r 530,272	584,492	580,000
Greece—						
Magnesite—						
Crude	102,152	59,803	61,027	46,778	87,270	108,262
Caustic (d)	37,419	31,328	24,079	18,622	<i>n.a.</i>	<i>n.a.</i>
Dead-burned (d) ..	—	—	—	—	8,089	<i>n.a.</i>
Italy—						
Magnesite, crude ..	2,989	4,042	4,864	7,600	5,804	6,752
Dolomite—						
Metallurgical ..	23,178	32,788	48,030	44,219	57,289	<i>n.a.</i>
Refractory, etc. ..	271,590	363,363	442,265	405,521	400,635	<i>n.a.</i>
Luxemburg—						
Dolomite, calcined ..	6,274	6,356	8,111	8,299	8,597	10,000

(a) Magnesia extracted from sea-water.

(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.

(f) Estimated.

PRODUCTION OF MAGNESITE AND DOLOMITE (cont.)

Long tons

Producing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Norway—						
Magnesite—						
Crude	817	780	(a) 780	—	—	—
Calcined (b)	300	<i>n.a.</i>	<i>n.a.</i>	—	—	—
Bricks (b)	83	<i>n.a.</i>	<i>n.a.</i>	—	—	—
Dolomite	92,584	106,002	114,385	115,640	144,922	143,000
Poland—						
Magnesite, crude	31,987	19,321	16,672	16,830	13,779	(d) 13,000
Portugal—						
Dolomite	394	1,181	2,165	1,673	2,087	2,400
Spain—						
Magnesite	28,928	26,762	24,010	36,120	34,323	39,793
Sweden—						
Dolomite, crude	93,773	141,932	89,132	53,600	<i>n.a.</i>	<i>n.a.</i>
Yugoslavia—						
Magnesite, crude	137,118	115,280	191,304	208,914	219,672	240,939
United States—						
Magnesite—						
Crude	253,585	434,007	613,008	605,794	440,162	530,631
Caustic (b) (e)	28,798	34,599	31,704	54,299	39,840	48,297
Dead-burned (b) (e)	257,384	373,894	384,481	417,610	370,423	462,447
Dolomite, crude (c)	3,478,357	1,900,800	4,943,000	4,758,000	<i>n.a.</i>	<i>n.a.</i>
Argentina—						
Dolomite	<i>n.a.</i>	25,000	27,000	14,684	<i>n.a.</i>	<i>n.a.</i>
Brazil—						
Dolomite	33,121	87,026	119,474	120,855	127,382	<i>n.a.</i>
Peru—						
Dolomite	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	34	747	<i>n.a.</i>
Uruguay—						
Dolomitic limestone	14,618	11,295	15,372	10,586	671	927
Formosa—						
Dolomite	3,232	3,171	4,472	6,593	10,747	14,250
Japan—						
Dolomite	716,804	807,198	1,041,210	1,166,470	1,380,859	1,309,430
Turkey—						
Magnesite	1,048	—	837	1,284	640	—

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.

(a) Estimated.

(b) Derived from crude shown and not additional. The United States also includes some 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	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom (a) ..	4,978	5,373	3,627	3,411	2,399	2,033
Canada (b)	6,000	7,000	8,577	7,487	6,068	5,193
OTHER COUNTRIES						
France	1,132	1,491	1,498	1,565	1,714	1,730
Germany (Federal) (a) ..	137	129	173	232	186	191
Italy	1,640	2,823	3,658	3,716	4,113	4,400
Norway	4,628	6,637	7,308	8,486	9,047	9,435
Poland	85	92	141	134	(d) 147	(d) 147
U.S.S.R. (c)	50,000	50,000	58,000	59,000	59,000	59,000
United States	62,258	54,585	61,023	72,556	26,871	27,708
Japan	21	132	77	421	987	1,539
WORLD'S TOTAL* ..	131,000	128,000	144,000	157,000	111,000	111,000

*Excluding magnesium known to have been produced in China.

(a) Including re-melt alloys.

(c) "Metallgesellschaft" estimate.

(b) Estimated.

(d) United States Bureau of Mines' estimate.

EXPORTS OF MAGNESITE, ETC.*

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Magnesium and alloys ..	247	954	1,405	4,284	3,464	2,649
Magnesium compounds	16,060	17,971	13,796	17,603	15,952	36,476
Rhodesia and Nyasaland—						
Crude and calcined ..	6,749	10,454	7,212	2,255	—	—
Tanganyika—						
Magnesite	78	285	243	254	301	—
Union of South Africa—						
Crude and calcined ..	—	—	—	55	18	—
Canada—						
Magnesium	<i>n.a.</i>	(£1,777,447)	(£1,874,003)	(£1,692,377)	(£1,052,011)	(£1,442,226)
Basic refractory materials	7,042	2,906	13,238	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
India—						
Crude and calcined ..	25,363	24,637	34,546	21,443	19,585	27,548
Chloride	318	644	164	16	173	49
Australia (b)—						
Crude and calcined ..	166	55	110	73	60	32
Sulphate	16	54	7	10	8	7
OTHER COUNTRIES						
Austria—						
Crude	1,075	596	368	549	569	599
Caustic	75,180	75,404	79,221	82,196	80,420	87,043
Dead-burned	77,606	149,650	148,471	150,413	130,754	169,487
Bricks	129,274	156,054	179,013	201,299	184,846	94,003
Dolomite	1,437	2,505	24,386	19,252	23,820	5,500
Belgium-Luxemburg						
E.U.—						
Crude	7	36	1,079	659	5,188	5,029
Calcined	1	43	5	141	144	86
Carbonate	1	17	2	1	2	12
Chloride	4	12	35	4	16	2
Sulphate	25	574	59	156	14	66
Dolomite, crude ..	6,723	12,315	15,783	62,493	90,651	164,206
do. ground	904	570	1,434	10,126	12,371	30,824
do. calcined	109,732	134,748	152,698	143,990	138,548	132,482
France—						
Crude and calcined ..	77	87	109	259	468	84
Magnesium metal (a)	160	117	60	44	61	51
Carbonate	527	536	258	493	401	581
Chloride	3,268	2,050	1,202	875	1,070	392
Oxide and hydroxide ..	32	59	246	240	276	567
Sulphate	1,412	179	267	308	194	111
Dolomite, crude ..	6,511	12,862	19,442	11,697	6,009	8,742
do. calcined	2,137	2,528	3,352	3,606	4,348	3,395
Germany (Federal)—						
Crude and calcined ..	895	639	3,426	4,595	2,490	3,685
Carbonate	723	693	449	509	411	444
Chloride	13,290	13,008	15,596	15,255	13,298	15,342
Oxide and hydroxide ..	375	340	370	332	457	694
Sulphate	35,431	35,813	43,884	44,373	44,375	48,461
Dolomite	81,689	87,303	103,640	119,079	118,225	89,385
Kieserite	46,002	51,762	58,788	64,025	63,226	78,396
Germany (East)—						
Sulphate	20,269	19,578	19,275	21,574	19,874	19,408

* Magnesite unless otherwise stated.

(a) Including alloys and scrap.

(b) Years ended June 30 of that stated.

EXPORTS OF MAGNESITE, ETC. (cont.)

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Greece—						
Crude	12,643	10,763	r 19,880	16,450	22,390	16,044
Calcined	35,889	36,430	36,040	r 29,810	32,970	30,157
Italy—						
Crude	501	50	46	28	9	7
Caustic	1	131	41	13	8	22
Magnesium metal including alloyed	1,575	2,408	3,033	2,924	3,259	4,379
Carbonate	35	123	43	53	68	136
Chloride	2	406	13	58	3	6
Oxide	209	232	210	185	154	161
Dolomite, calcined	4,026	4,743	3,096	3,296	3,998	4,528
Netherlands—						
Crude	127	308	291	357	532	369
Calcined	15,191	16,248	15,263	13,879	11,574	13,710
Sulphate	660	951	1,018	978	1,082	964
Norway—						
Crude	—	10	30	—	—	—
Bricks	36	55	24	20	22	10
Magnesium metal	n.a.	n.a.	n.a.	n.a.	n.a.	10,987
Oxide	n.a.	n.a.	230	184	79	n.a.
Sweden—						
Crude and calcined	—	98	148	224	586	—
U.S.S.R.—						
Magnesium metal	n.a.	1,700	2,800	2,400	1,600	1,000
Yugoslavia—						
Crude	2,764	2,175	—	46	—	—
Ground and dead-burned	36,776	40,066	55,154	57,118	51,213	57,046
Bricks	59	344	1,886	4,695	6,409	7,922
Mexico—						
Crude and calcined	2	—	44	—	—	—
United States—						
Dead-burned	n.a.	8,278	7,735	24,250	47,447	77,056
Magnesium metal (a)	2,764	7,348	3,025	r 1,088	184	1,429
Brazil	472	763	1,949	1,968	1,240	207
Peru—						
Sulphate	923	661	682	300	—	—
Japan—						
Dolomite	n.a.	n.a.	889	1,663	2,301	2,223
Magnesium metal	—	—	—	155	767	91
Carbonate	266	334	605	500	621	955
Chloride and sulphate	869	2,159	461	3,128	3,046	889

(a) Including alloys and scrap.

IMPORTS OF MAGNESITE, ETC.*

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Crude and calcined	20,619	44,590	58,041	68,900	29,145	19,128
Magnesium	<i>n.a.</i>	6,621	3,167	3,322	2,044	3,491
Chloride	10,327	13,218	11,102	8,847	8,518	6,097
Union of South Africa—						
Carbonate	6,839	9,369	6,939	3,495	166	<i>n.a.</i>
Chloride	134	199	104	217	196	<i>n.a.</i>
Sulphate	1,320	1,473	1,313	1,489	2,057	<i>n.a.</i>
Canada—						
Magnesium alloys	(£36,610)	(£67,649)	(£133,395)	(£103,262)	(£93,668)	(£101,495)
Calcined and dead-burned	5,118	12,444	21,482	10,456	13,703	17,958
Carbonate and oxide	5,382	4,908	5,693	2,190	1,536	2,145
Sulphate	2,112	2,121	2,334	2,284	2,190	2,430
Bricks	(£145,631)	(£201,480)	(£247,401)	(£160,794)	(£120,083)	(£162,590)
Other salts	5,444	4,712	6,478	3,881	4,448	1,996
Hong Kong—						
Magnesite	—	—	—	—	—	256
India—						
Crude	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,179	61	120
Calcined	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	202	855	—
Magnesium metal	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	40	79	43
Carbonate	(b)	(b)	(b)	1,193	873	1,119
Chloride	—	30	3	1	1	1
Sulphate	6	—	1	—	—	—
Oxides	(b)	(b)	(b)	52	33	71
Other salts	390	863	1,500	320	18	46
Pakistan—						
Chloride	(c) 139	(c) 124	127	74	90	3
Sulphate	(c) 354	(c) 131	1,047	234	113	215
Other salts	(c) 32	(c) 187	113	291	397	355
Australia (a)—						
Crude and calcined	1,180	3,075	5,128	2,535	2,576	7,288
Magnesium metal and powder	27	53	20	25	92	97
Oxide	38	66	128	116	154	158
Carbonate	234	175	233	138	148	159
Chloride	360	488	515	496	329	332
Sulphate	530	706	735	358	384	202
New Zealand—						
Magnesite	39	r 74	r 48	48	51	92
Sulphate	513	r 680	r 621	r 894	823	659
Other salts	217	r 284	r 241	r 270	279	242
Irish Republic—						
Magnesium salts	463	444	401	383	366	449
OTHER COUNTRIES						
Austria—						
Crude	499	767	11,639	5,923	6,061	28
Chloride	2,731	3,020	2,826	2,830	2,427	2,023
Dolomite	951	1,184	1,596	1,776	1,433	2,012
Kieserite	6,488	7,954	7,239	8,691	8,563	<i>n.a.</i>

* Magnesite unless otherwise stated.

(a) Years ended June 30 of that stated.

(c) Years ended March 31 following that stated.

(b) Included, if any, with "other salts".

IMPORTS OF MAGNESITE, ETC. (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Belgium-Luxemburg						
E.U.—						
Crude	599	647	1,087	981	1,082	2,611
Calcined	1,711	2,119	2,978	2,297	2,189	4,534
Bricks	9,897	13,625	18,718	14,214	13,848	13,565
Magnesium metal	135	263	296	329	510	321
Carbonate	437	454	526	508	276	330
Chloride	693	711	770	917	773	1,389
Oxide and hydroxide	316	384	402	331	285	390
Sulphate	2,948	1,969	2,425	2,434	2,483	2,511
Dolomite, crude	520	2,342	8,735	5,274	1,832	1,936
do. ground	205	209	54	30	315	143
do. calcined	4,694	4,474	6,146	6,922	5,261	4,437
Denmark—						
Crude	1,147	1,687	1,499	1,569	1,566	2,071
Chloride	702	687	647	439	538	567
Oxide	77	95	141	104	120	<i>n.a.</i>
Sulphate	977	794	1,213	1,338	1,520	1,149
Dolomite	7,580	9,447	10,896	11,204	11,935	12,474
Finland—						
Crude and calcined	1,060	1,141	1,243	899	413	753
Bricks	3,062	2,517	2,291	2,607	2,698	1,999
Oxide	38	37	40	20	58	156
Carbonate	243	216	128	105	64	139
Chloride	687	995	721	963	273	370
Sulphate	128	117	110	1,883	109	152
France—						
Crude	3,750	5,127	3,571	2,918	5,604	3,212
Calcined	14,954	16,252	17,799	17,611	24,279	17,944
Bricks	25,036	46,658	49,177	44,829	47,201	25,953
Magnesium metal (a)	160	244	349	1,212	746	134
Carbonate	171	162	171	166	146	230
Chloride	150	374	299	256	174	207
Oxide and hydroxide	79	149	122	113	114	261
Sulphate	1,649	1,686	1,635	1,586	2,326	2,649
Dolomite, crude	6,435	10,552	15,037	17,423	28,511	16,819
do. calcined	146,525	174,931	182,662	176,013	176,282	139,570
Germany (Federal)—						
Crude	3,695	1,472	1,668	1,283	2,851	1,634
Caustic	148,776	107,160	108,555	97,965	88,156	100,145
Dead-burned		61,710	61,058	72,593	69,270	55,103
Magnesium metal (a)	6,828	15,742	14,004	11,936	13,744	17,763
Carbonate	33	83	171	171	191	295
Chloride	41	15	8	8	4	12
Oxide and hydroxide	19	41	131	195	318	507
Dolomite	16,202	25,363	25,494	23,024	23,607	18,108
Hungary—						
Dead-burned	44,923	38,871	37,462	35,309	45,629	42,906
Italy—						
Crude	4,879	4,115	4,602	4,470	4,275	3,136
Caustic	8,961	10,457	18,504	13,315	13,976	16,217
Chloride	1,998	2,684	3,033	2,704	3,385	2,878
Sulphate	4,831	4,273	4,616	4,499	2,514	2,135
Netherlands—						
Crude	1,280	927	1,201	543	1,114	1,144
Calcined	19,132	17,100	18,082	15,525	13,382	15,357
Bricks	9,258	11,007	13,177	14,426	15,804	10,884
Magnesium metal	108	128	125	134	176	175
Carbonate	339	269	391	506	474	508
Oxide and hydroxide	140	125	145	92	108	246
Sulphate	6,207	4,727	4,708	5,173	5,426	5,340
Chloride	3,386	3,476	2,717	2,046	1,785	1,882

(a) Including alloys and scrap.

IMPORTS OF MAGNESITE, ETC. (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Netherlands <i>(cont.)</i> —						
Dolomite, crude ..	7,711	4,070	17,830	83,590	107,285	180,379
do. calcined ..	28,981	26,817	31,468	40,440	38,677	42,407
do. ground ..	2,255	3,022	5,024	2,256	1,330	68
Kieserite ..	10,566	10,251	12,082	11,204	14,225	17,654
Norway—						
Calcined ..	493	558	545	367	368	383
Chloride ..	1,779	495	710	349	377	291
Dolomite ..	215	856	1,192	1,929	826	2,952
Portugal—						
Crude and calcined ..	228	257	336	378	613	565
Carbonate ..	101	96	111	96	85	118
Chloride ..	70	81	76	84	148	116
Oxide ..	543	313	8	509	519	512
Sulphate ..	1,231	855	1,208	1,575	1,149	1,344
Sweden—						
Crude and calcined ..	1,400	1,459	1,650	1,473	1,504	1,385
Bricks ..	12,159	15,031	13,191	13,784	13,590	14,777
Magnesium metal ..	165	256	260	283	320	445
Carbonate ..	226	196	140	172	218	244
Chloride ..	1,040	1,102	1,222	924	1,137	1,647
Sulphate ..	1,004	1,124	1,175	1,284	1,191	1,515
U.S.S.R.—						
Crude ..	<i>n.a.</i>	39,500	39,600	29,600	—	—
Yugoslavia—						
Calcined and ground ..	28	—	—	—	—	—
Bricks ..	3,685	1,411	158	65	49	66
Magnesium metal ..	99	89	120	141	231	179
Algeria—						
Calcined ..	7	6	8	—	5	5
Dolomite ..	907	2,113	2,397	2,187	2,468	2,126
Belgian Congo—						
Oxide ..	1,116	688	658	615	901	1,037
Sulphate ..	331	578	553	438	530	262
Chloride ..	4	1	3	10	19	30
Egypt—						
Magnesite and dolomite ..	3,071	3,676	3,218	4,304	3,587	1,454
Sulphate ..	186	682	590	<i>r</i> 517	727	785
Morocco—						
Chloride ..	<i>n.a.</i>	151	150	202	152	4
Sulphate ..	143	53	26	178	26	35
Cuba—						
Oxide ..	119	129	59	155	25	<i>n.a.</i>
Carbonate ..	118	78	200	35	203	<i>n.a.</i>
Sulphate ..	397	513	592	630	723	<i>n.a.</i>
Mexico—						
Crude ..	318	133	611	381	284	3,548
Magnesium metal ..	379	350	354	468	319	346
Oxide ..	296	511	327	678	421	704
Sulphate ..	102	81	64	91	131	187
United States—						
Calcined ..	2,177	3,169	6,911	5,030	2,139	4,730
Dead-burned ..	60,904	91,689	84,718	66,968	67,163	134,199
Bricks ..	6,473	7,555	10,803	9,851	10,185	14,987
Magnesium metal, etc. ..	654	1,646	562	877	480	529
Oxide ..	1	101	176	368	317	244
Carbonate, precipitated ..	178	252	235	274	291	314
Chloride ..	227	197	312	385	612	848
Sulphate (incl. Kieserite)	31,880	37,803	43,548	43,188	41,623	45,443

IMPORTS OF MAGNESITE, ETC. (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Argentina—						
Carbonate	305	950	341	436	214	852
Chloride	68	177	63	174	—	—
Oxide	1	20	24	3	—	2
Brazil—						
Crude	6	1,273	3	—	38	—
Carbonate	575	114	310	430	194	379
Chloride	44	57	78	56	8	107
Oxide	117	92	68	98	45	69
Sulphate	677	386	845	1,022	327	469
Chile—						
Crude	49	53	29	49	<i>n.a.</i>	<i>n.a.</i>
Calcined	3,003	1,108	827	2,465	<i>n.a.</i>	1,957
Sulphate	62	573	2,447	121	<i>n.a.</i>	<i>n.a.</i>
Dolomite, crude	10,028	13,478	1,483	18,208	5,634	<i>n.a.</i>
do. calcined	4,238	3,363	—	—	10,476	1,508
Colombia—						
Crude and calcined	1,294	2,566	4,149	2,112	4,241	386
Carbonate	18	7	11	8	246	15
Chloride	29	10	11	23	14	109
Oxide	70	75	85	110	86	44
Sulphate	319	413	452	617	408	446
Peru—						
Crude and calcined	1,941	1,197	26	9	14	1,019
Carbonate	26	7	12	31	28	31
Oxide	4	2	5	3	3	39
Hydroxide	39	42	50	53	55	35
Sulphate	313	44	66	35	35	153
Chloride	3	—	3	3	2	8
Venezuela—						
Crude	12	3	149	776	1,951	<i>n.a.</i>
Sulphate	112	142	103	154	170	<i>n.a.</i>
Japan—						
Crude and calcined	40,412	52,638	94,876	121,766	66,894	112,754
Magnesium metal	1,024	1,722	4,526	3,281	16	—
Philippine Republic—						
Carbonate	<i>n.a.</i>	<i>n.a.</i>	39	161	64	255
Sulphate	<i>n.a.</i>	<i>n.a.</i>	210	208	250	239
Syria—						
Ground and calcined	29	17	15	16	25	54
Sulphate	239	94	142	42	183	56
Turkey—						
Carbonate, chloride, etc.	203	59	16	33	24	292
Oxide	12	11	4	12	4	41
Sulphate	218	558	187	43	14	215

MANGANESE
PRODUCTION OF MANGANESE ORE
(including Ferruginous Manganese Ore)

Long tons

Producing Country	Estimated Manganese Content											
	1954	1955	1956	1957	1958	1959	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES												
Bechuanaland	—	—	—	217	12,690	17,980	—	—	—	n.a.	n.a.	n.a.
Ghana (a)	460,245	539,580	635,851	641,343	513,099	526,653	220,000	259,000	305,000	308,000	246,000	253,000
Northern Rhodesia .. .	15,680	17,604	36,393	35,449	44,092	56,312	7,500	8,500	17,500	17,000	21,200	26,000
Southern Rhodesia .. .	16	1,187	729	1,594	2,243	1,898	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
South West Africa .. .	30,416	37,393	51,127	80,054	92,009	44,145	14,600	18,000	24,500	38,400	44,200	21,200
Union of South Africa .. .	690,059	579,888	686,071	703,467	834,021	954,645	276,000	238,000	244,000	r 249,000	342,000	391,000
India	r 1,413,068	1,583,538	r 1,736,609	r 1,654,194	1,234,000	1,168,000	692,000	770,000	851,000	811,000	605,000	572,000
Australia	28,202	47,356	59,384	r 77,010	59,683	84,793	13,100	21,300	26,800	35,700	27,400	38,900
New Zealand	—	239	156	36	103	101	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Papua	—	20	13	—	—	—	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Fiji	9,619	17,681	22,381	34,694	18,295	(a) 20,630	n.a.	n.a.	11,000	16,000	9,000	10,000
TOTAL	2,648,000	2,824,000	r 3,229,000	r 3,228,000	2,810,000	2,880,000	—	—	—	—	—	—
OTHER COUNTRIES												
Austria	—	—	—	200	300	424	—	—	—	30	40	60
Bulgaria	32,479	61,612	75,587	80,000	(b) 78,700	(b) 78,700	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
France	1,000	1,280	1,230	1,862	2,133	1,853	221	281	369	409	469	407
Greece	16,694	24,239	7,763	15,666	20,000	29,527	6,700	9,700	3,100	6,300	7,900	11,800
Hungary	107,511	93,936	(b) 84,000	(b) 118,000	(b) 118,000	(b) 118,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Italy	49,019	55,968	46,158	46,407	43,382	50,819	13,600	14,500	11,700	12,000	10,800	12,900
Portugal	9,489	3,918	3,132	5,389	4,896	6,878	4,000	1,600	1,300	2,300	2,057	2,889
Roumania	170,636	383,763	231,298	261,074	197,102	194,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Spain	35,277	44,319	32,232	40,734	35,953	40,110	14,100	18,200	13,200	12,400	12,900	13,400
Sweden	8,044	15,140	28,788	12,960	5,475	5,475	1,200	2,376	3,846	1,354	733	1,824
U.S.S.R.	4,517,000	4,668,000	4,860,000	5,067,000	5,281,000	5,429,000	2,030,000	2,100,000	2,190,000	2,280,000	2,380,000	2,440,000
Yugoslavia	9,061	10,782	11,390	10,072	9,877	7,956	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Angola	31,129	31,119	52,130	49,289	48,088	38,207	14,900	11,800	17,000	15,000	17,500	15,700
Belgian Congo	378,857	454,440	342,330	361,225	332,804	380,085	189,400	218,100	157,700	173,400	159,700	182,400
Egypt	174,727	209,854	197,562	84,171	109,852	126,000	53,000	63,000	59,000	25,000	45,000	50,000

(b) United States Bureau of Mines' estimate.

(a) Exports.

PRODUCTION OF MANGANESE ORE (cont.)

Long tons

Producing Country	Estimated Manganese Content											
	1954	1955	1956	1957	1958	1959	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES—(cont.)												
Morocco ..	394,881	405,944	421,276	484,379	403,608	463,135	184,000	187,000	194,000	n.a.	n.a.	n.a.
Sudan ..	..	..	(c) 5,959	6,709	1,174	n.a.	—	—	n.a.	n.a.	n.a.	n.a.
Cuba (b) ..	262,038	254,360	251,390	271,000	70,844	15,597	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Mexico ..	248,211	86,898	f 153,000	f 200,000	f 167,300	f 162,400	82,040	35,241	60,950	78,410	77,408	75,720
Panama Republic ..	..	..	..	1,923	4,008	..	..	..	..	n.a.	n.a.	..
United States (c) ..	239,246	401,382	433,577	550,389	370,589	350,963	98,891	142,500	162,000	178,337	141,187	107,114
Argentina ..	1,200	9,852	7,951	9,959	13,061	n.a.	500	4,000	3,100	4,000	5,000	n.a.
Brazil ..	159,962	209,151	305,875	903,518	868,227	953,943	83,000	94,000	138,000	407,000	391,000	429,000
Chile ..	37,122	42,674	47,250	53,325	37,554	61,159	17,147	19,637	21,328	24,900	16,493	27,000
Peru ..	(d) 4,000	(d) 5,000	(d) 6,500	15,105	2,895	1,779	1,762	2,145	2,869	6,216	1,302	530
Venezuela ..	..	..	9,212	29,410	8,071	3,531	—	—	n.a.	n.a.	n.a.	n.a.
Burma ..	3,714	300	1,150	452	1,255	541	2,000	140	520	170	470	200
China (f) ..	170,000	270,000	520,000	r 690,000	830,000	980,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Indonesia ..	19,918	38,447	106,123	52,981	43,161	42,118	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Iran (e) ..	13,989	9,503	(g) 6,392	(a) 13,417	7,091	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Japan ..	160,853	198,527	280,514	284,373	291,312	342,588	62,000	74,000	103,000	105,000	110,000	125,000
Korea (South) ..	r 1,655	3,427	1,927	3,154	—	443	700	1,400	800	1,300	—	200
Philippine Republic ..	9,245	11,724	4,344	29,754	21,956	34,254	4,000	5,100	1,900	13,100	9,700	15,100
Portuguese India ..	104,246	133,502	r 230,273	r 192,710	101,615	108,072	50,000	53,000	90,000	72,000	38,000	40,000
Thailand ..	..	..	401	340	984	404	—	—	210	180	520	210
Turkey ..	49,026	49,311	59,792	55,822	22,250	35,126	24,000	24,000	29,000	27,000	11,000	17,000
TOTAL ..	7,400,000	r 8,200,000	r 8,800,000	r 10,000,000	9,600,000	10,100,000	..	..	..	..	..	..
WORLD'S TOTAL ..	10,000,000	r 11,000,000	r 12,000,000	13,200,000	12,400,000	13,000,000	..	..	..	..	..	..

Low-grade manganese ore is known to have been produced in Czechoslovakia.

- (a) Exports.
- (b) Concentrates.
- (c) Shipments.
- (d) Estimated.
- (e) Years ended March 20 following that stated.
- (f) United States Bureau of Mines' estimate.

EXPORTS OF MANGANESE ORE, ETC.

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Metal	409	814	447	166	83	98
Ferro-manganese and spiegeleisen	8,903	1,195	966	655	611	596
Ghana—						
Ore	447,770	539,580	635,851	641,343	513,099	526,653
Rhodesia and Nyasaland—						
Ore	2,650	17,360	20,975	28,184	32,349	47,589
South West Africa—						
Ore	27,608	420,458	457,916	497,221	442,387	472,987
Union of South Africa—						
Ore	397,297					
Canada—						
Spiegeleisen	—	—	210	637	—	—
Ferro-manganese	3,249	26,254	53,076	41,726	201	172
Hong Kong—						
Ore	—	—	—	228	324	483
Manganese dioxide	73	51	217	481	1,652	3,316
India—						
Ore	^b 1,092,265	1,232,456	1,456,702	1,633,679	924,497	913,741
Ferruginous manganese ore	23,881	53,096	52,458	81,333	35,690	56,388
Ferro-manganese	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	3,001	10,553	8,114
Australia (a)—						
Ore	18,337	—	4	5,620	32,236	17,432
Fiji—						
Ore	5,707	9,258	19,318	27,415	22,498	20,630
Papua (a)—						
Ore	97	60	28	18	—	—
OTHER COUNTRIES						
Belgium-Luxemburg E.U.—						
Ferro-manganese	3,230	7,044	4,477	14,088	13,150	13,698
Spiegeleisen	4,677	4,678	3,769	4,299	3,533	4,231
France—						
Ore, including manganese-ferrous iron ore	2,142	2,389	2,591	1,420	1,145	899
Metal	164	341	143	118	205	42
Ferro-manganese	54,891	96,742	116,822	122,795	83,036	98,939
Spiegeleisen	1,212	5,500	4,724	425	410	8,041
Germany (Federal)—						
Ore	1,573	6,594	853	2,417	4,499	5,078
Metal	19	16	16	36	33	75
Greece—						
Ore	15,840	19,853	12,667	17,169	22,315	29,302
Italy—						
Ore, including manganese-ferrous iron ore	39	1	1	1	1	28
Ferro-manganese	1,003	550	736	211	322	4,005
Netherlands—						
Ore, including manganese-ferrous iron ore	3,772	2,173	1,913	2,872	7,357	8,240
Norway—						
Ferro-manganese	48,669	64,478	74,264	77,719	41,844	61,938
Ferro-silico-manganese	22,354	30,437	45,811	45,126	44,859	67,411
Portugal—						
Ore	3,445	5,767	3,819	4,973	2,184	5,047

(a) Years ended June 30 of that stated.

(b) Sea-borne trade only.

EXPORTS OF MANGANESE ORE, ETC. (cont.)

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Sweden—						
Ore	545	1,614	2,604	518	595	1,086
Ferro-manganese	824	1,059	740	1,229	1,382	2,693
Ferro-silico-manganese	319	35	1	—	—	226
U.S.S.R.—						
Ore	<i>n.a.</i>	838,000	903,000	793,200	819,800	963,500
do. (dioxide)	<i>n.a.</i>	14,900	13,800	12,700	7,300	8,500
Ferro-manganese	<i>n.a.</i>	25,200	30,900	41,000	45,000	49,700
Yugoslavia—						
Ferro-manganese	2,215	4,019	2,877	3,845	7,842	6,538
Silico-manganese	123	797	493	787	197	886
Angola—						
Ore	18,400	40,033	35,270	23,155	8,913	38,752
Belgian Congo—						
Ore	246,067	270,112	328,911	324,262	313,711	297,837
Egypt—						
Ore	183,750	211,278	262,766	20,300	19,689	158,993
Morocco—						
Ore	324,171	379,860	332,003	426,916	316,215	379,564
Sudan—						
Ore	—	—	5,959	r 6,136	1,273	—
Cuba—						
Ore	231,003	254,360	240,010	143,721	67,624	<i>n.a.</i>
Mexico—						
Ore	227,645	70,102	155,044	213,974	225,000	<i>n.a.</i>
<i>Mn content</i>	<i>81,859</i>	<i>35,241</i>	<i>60,950</i>	<i>78,409</i>	<i>77,120</i>	<i>75,720</i>
Panama Republic—						
Ore	—	—	—	1,923	4,008	—
United States—						
Ore	5,457	5,606	5,476	4,705	4,359	5,091
Metal	395	408	644	656	551	1,133
Ferro-manganese	1,546	1,597	2,007	6,603	1,255	845
Brazil—						
Ore	92,889	173,756	256,233	785,462	653,207	899,776
Ferro-manganese	<i>n.a.</i>	—	984	1,673	—	—
Chile—						
Ore	23,424	8,489	17,037	34,151	19,648	23,858
Ferro-manganese	6,014	7,903	r 2,996	r 5,712	5,822	2,735
Silico-manganese	—	2,843	2,728	1,563	869	3,129
Manganese dioxide	—	398	884	—	<i>n.a.</i>	<i>n.a.</i>
Peru—						
Ore	3,596	5,759	8,706	9,628	4,448	1,022
Venezuela—						
Ore	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	22,040	<i>n.a.</i>	<i>n.a.</i>
Burma—						
Ore	3,898	954	757	343	426	—
Indonesia—						
Ore	11,256	39,924	81,785	50,419	43,660	31,832
Iran (a)—						
Ore	<i>n.a.</i>	<i>n.a.</i>	6,392	13,417	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Ore	248	317	242	146	—	398
Ferro-manganese	14,230	41,532	53,131	35,490	47,900	33,269
Ferro-silico-manganese	<i>n.a.</i>	<i>n.a.</i>	7,405	9,844	21,611	9,633
Philippine Republic—						
Ore	11,156	13,396	14,451	33,501	30,532	26,042
Portuguese India—						
Ore	101,795	149,172	r 162,347	r 188,155	122,260	152,270
Thailand—						
Ore	—	—	<i>n.a.</i>	399	378	98
Turkey—						
Ore	39,602	31,269	55,267	24,561	23,922	22,847
New Caledonia—						
Ore	—	428	—	810	—	—

(a) Years ended March 20 following that stated.

IMPORTS OF MANGANESE ORE, ETC.

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore	500,380	404,708	441,804	476,337	347,433	342,839
Metal	15	71	249	481	649	1,101
Ferro-manganese and spiegeleisen	3,386	16,550	41,674	83,254	18,087	28,807
Silico-manganese	6,898	10,308	13,977	13,845	16,122	22,685
Union of South Africa—						
Ferro-manganese	9	—	—	—	—	<i>n.a.</i>
Manganese dioxide	663	982	1,262	1,455	1,818	<i>n.a.</i>
Canada—						
Ore	43,716	156,501	185,694	117,249	37,553	105,763
Ferro-manganese	7,613	3,522	1,956	664	2,217	2,084
Silico-manganese	17	243	1,009	2,015	1,950	2,669
Hong Kong—						
Ore	8	110	135	249	93	468
Manganese dioxide	1,083	1,528	1,747	2,111	3,503	5,104
India—						
Ore	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	475	8,771	5,846
Ferro-manganese	6,197	481	291	275	200	150
Malaya—						
Ore	1,655	1,825	1,128	2,731	2,532	2,668
Australia (b)—						
Ore	2,273	2,172	2,060	1,046	3,028	1,189
Ferro-manganese	684	2,206	10,357	2,781	4,908	3,650
OTHER COUNTRIES						
Austria—						
Ore	10,000	33,623	19,609	69,431	4,661	6,115
Ferro-manganese	4,308	5,951	7,219	7,518	8,268	5,818
Belgium-Luxemburg						
E.U.—						
Ore (a)	99,287	110,260	121,088	134,689	153,364	146,434
Ferro-manganese	42,910	62,357	71,532	80,984	46,626	55,300
Ferro-silico-manganese	2,973	1,640	3,002	2,553	2,317	2,494
Spiegeleisen	8,478	8,994	19,451	16,642	20,666	7,118
Denmark—						
Ore	2,499	3,044	7,796	6,068	4,287	3,032
Ferro-manganese, etc.	3,535	2,716	2,412	2,460	2,219	2,275
Finland—						
Ferro-manganese and spiegeleisen	1,620	1,754	2,556	2,925	1,363	2,176
France—						
Ore (a)	399,630	669,552	646,484	805,409	545,171	596,088
Ferro-manganese	2,686	6,012	887	40	3,405	4,665
Spiegeleisen	15,955	16,589	16,561	26,816	16,552	10,786
Germany (Federal)—						
Ore	177,723	320,375	416,872	486,093	335,690	312,140
Metal	537	478	498	505	1,124	1,312
Hungary—						
Ferro-manganese	5,602	4,884	5,186	7,121	5,834	<i>n.a.</i>
Italy—						
Ore (a)	91,326	82,271	121,698	132,533	56,735	72,769
Metal	111	57	53	55	29	82
Spiegeleisen	1,129	2,506	2,145	168	4,431	2,265
Ferro-manganese	789	3,857	8,211	9,257	18,136	19,010
Ferro-silico-manganese	118	538	1,129	2,840	2,001	1,767
Netherlands—						
Ore (a)	47,202	24,789	34,748	37,977	25,722	75,110
Ferro-manganese	5,401	7,376	7,100	10,278	9,102	8,806
Ferro-silico-manganese	401	236	513	277	229	372
Spiegeleisen	1,137	1,064	1,410	1,446	512	1,672

(a) Including manganiferous iron ore.

(b) Years ended June 30 of that stated.

IMPORTS OF MANGANESE ORE, ETC. (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Norway—						
Ore	99,129	152,714	214,300	282,338	193,757	214,651
Poland—						
Ore	<i>n.a.</i>	330,000	405,000	238,000	243,000	264,000
Spain—						
Ore	11,722	28,810	91	3,036	18,046	50,171
Ferro-manganese ..	3,339	1,729	163	342	120	629
Sweden—						
Ore	32,672	31,661	38,254	39,392	72,299	79,490
Ferro-manganese ..	2,897	3,032	6,952	7,016	3,176	5,765
Spiegeleisen	30	76	221	88	59	98
Ferro-silico-manganese	99	150	227	1,580	308	1,287
Yugoslavia—						
Ore	11,183	8,765	16,645	23,340	24,642	32,143
Ferro-manganese ..	116	156	143	245	300	359
Algeria—						
Ore	31	72	20	5	25	31
Mexico—						
Ferro-manganese ..	130	145	159	160	1,192	730
United States—						
Ore (over 35% Mn) ..	2,003,215	2,021,292	1,984,339	2,267,119	1,605,913	1,691,147
<i>Mn content</i>	<i>919,298</i>	<i>934,957</i>	<i>899,321</i>	<i>1,042,171</i>	<i>747,411</i>	<i>792,572</i>
Ore (10% to 35% Mn) ..	96,515	153,091	142,806	5,236	4,497	7,013
<i>Mn content</i>	<i>20,327</i>	<i>31,519</i>	<i>29,951</i>	<i>1,623</i>	<i>1,406</i>	<i>2,162</i>
Ferro-manganese ..	50,689	58,144	143,038	301,856	57,082	80,412
<i>Mn content</i>	<i>39,950</i>	<i>46,639</i>	<i>110,672</i>	<i>230,197</i>	<i>44,215</i>	<i>62,707</i>
Silico-manganese ..						
<i>Mn content</i>	<i>1,412</i>	<i>2,634</i>	<i>5,676</i>	<i>4,562</i>	<i>7,954</i>	<i>11,156</i>
Spiegeleisen	—	—	209	—	—	—
Argentina—						
Ferro-manganese ..	4,176	698	1,908	—	—	—
Brazil—						
Ferro-manganese ..	166	49	—	73	63	819
Chile—						
Ferro-manganese ..	5	22	29	—	<i>n.a.</i>	<i>n.a.</i>
Silico-manganese ..	8	5	6	1	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Ore	111,965	172,854	203,311	223,986	170,245	274,188

MERCURY
PRODUCTION OF MERCURY

Lb. avdp.

Producing Country	1954	1955	1956	1957	1958	1959
Austria (a)	2,138	1,265	441	487	—	—
Italy	4,140,521	4,068,000	r 4,736,000	4,806,000	4,462,000	3,483,000
Spain	3,277,696	2,753,733	3,668,107	4,161,075	4,209,056	3,927,689
Yugoslavia	1,098,000	1,109,000	1,005,000	937,000	933,000	1,010,000
Tunisia	—	12,566	7,716	—	2,976	15,000
Mexico	1,121,350	2,270,999	1,484,000	1,601,211	1,714,303	1,250,000
United States	1,409,268	1,440,580	1,837,452	2,631,500	2,893,092	2,375,500
Bolivia	—	—	—	—	(d) 772	(d) 881
Chile	18,492	40,007	43,735	51,496	254,039	(c) 320,000
Colombia.. .. .	—	2,700	—	7,500	15,000	(c) 20,000
Peru	5,884	11,228	25,477	31,248	150,680	(d) 206,236
China (c)	760,000	874,000	1,300,000	1,300,000	1,300,000	1,700,000
Formosa	3,300	—	—	—	—	—
Japan	780,039	379,274	633,375	902,299	828,411	1,230,000
Philippine Republic	—	48,260	229,140	255,588	252,396	269,000
Turkey	19,800	63,900	42,712	54,720	112,936	42,000
WORLD'S TOTAL (b)..	13,600,000	14,100,000	r16,700,000	r18,700,000	19,100,000	17,800,000

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	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Mercury	63,479	68,138	66,947	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Canada—						
Mercury	6,310	3,781	5,953	1,425	2,830	10,458
Hong Kong—						
Mercury	3,497	—	3,573	3,256	380	4,090
Malaya—						
Mercury	622	1,996	130	953	383	2,543
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Mercury	3,086	4,409	1,543	1,764	15,000	23,100
Mercury salts	8,378	3,307	20,724	16,755	2,200	3,700
France—						
Mercury	15,873	14,110	3,748	6,173	9,000	10,800
Mercury salts	28,881	22,487	22,083	14,330	13,900	11,200
Germany (Federal)—						
Mercury	10,362	7,937	42,108	40,565	15,000	34,200
Italy—						
Mercury	4,705,934	2,123,089	5,700,339	2,188,088	873,875	2,670,700
Mercury salts	72,854	49,675	24,079	9,442	27,040	2,000
Portugal—						
Mercury	112	148	—	165	—	44
Spain—						
Mercury	3,308,697	2,450,667	3,095,909	3,533,824	3,855,541	3,269,470
Mercury salts	14,425	11,230	16,592	46,775	64,767	101,329
Sweden—						
Mercury	—	8,818	6,614	2,205	29,000	<i>n.a.</i>
Switzerland—						
Mercury	300	111,918	721	930	1,404	1,025
U.S.S.R.—						
Mercury	<i>n.a.</i>	421,000	708,000	642,000	789,000	783,000
Yugoslavia—						
Mercury	899,925	1,003,965	653,663	521,078	312,666	380,260
Mercury salts	93,961	55,810	118,005	86,507	137,628	144,334
Mexico—						
Mercury	1,403,293	1,842,048	1,753,870	1,593,327	1,988,210	1,587,465
United States—						
Mercury	67,628	34,301	82,044	145,833	24,298	48,652
Bolivia—						
Mercury	—	—	—	—	772	881
Chile—						
Mercury	—	—	27,802	29,701	204,000	202,038
Peru—						
Mercury	—	15,267	26,929	30,003	131,146	206,236
Japan—						
Mercury	6,175	2	317	1,210	384	11,460
Philippine Republic—						
Mercury	—	—	224,007	224,627	306,760	348,436
Turkey—						
Mercury	36,341	38,407	23,578	61,712	129,960	52,600

IMPORTS OF MERCURY, ETC.

Lb. avdp.

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Mercury	1,803,837	714,322	1,180,738	216,658	1,071,272	1,578,819
Chloride	22,479	13,445	15,960	—	—	—
Rhodesia and Nyasaland—						
Mercury	11,289	13,493	10,109	11,948	6,591	17,380
South West Africa—						
Mercury	178	11,171	42,818	49,806	51,963	n.a.
Union of South Africa—						
Mercury	103,535					
Canada—						
Mercury	243,491	522,409	449,702	r 396,404	193,007	141,100
Mercury salts	(£6,766)	(£4,094)	(£661)	(£9,039)	(£3,996)	(£2,281)
Hong Kong—						
Mercury	6,235	6,370	19,901	28,722	11,163	26,720
India—						
Mercury	(a) 210	14	173,080	296,727	148,073	134,752
Mercury salts	n.a.	n.a.	n.a.	26,190	19,588	37,334
Malaya—						
Mercury	6,878	4,386	3,268	1,951	1,874	2,945
Pakistan—						
Mercury	(c) 331	(c) 112	304	7,110	—	2,499
Sarawak—						
Mercury	6	353	44	n.a.	n.a.	n.a.
Australia (b)—						
Mercury	144,842	70,144	64,096	61,546	59,447	76,106
Mercury salts	53,303	182,079	367,592	250,817	184,087	356,674
New Zealand—						
Mercury	1,721	r 6,952	r 6,366	r 5,384	6,250	20,528
Mercury salts	6,400	r 6,400	r 6,400	r 6,800	3,900	2,500
OTHER COUNTRIES						
Austria—						
Mercury	55,777	49,824	19,842	34,613	28,700	35,100
Mercury salts	34,172	26,896	24,030	16,314	24,000	n.a.
Belgium-Luxemburg						
E.U.—						
Mercury	101,854	63,272	85,098	99,869	89,900	81,400
Mercury salts	25,353	25,892	11,684	16,535	15,200	15,400
Denmark—						
Mercury	19,842	19,621	93,256	22,046	242,100	650,000
Finland—						
Mercury and amalgam ..	111,298	124,405	65,111	150,018	57,552	150,468
France—						
Mercury	720,030	990,316	862,889	769,193	697,300	673,100
Mercury salts	—	220	661	2,205	8,200	13,400
Germany (Federal)—						
Mercury	1,658,758	1,572,557	1,181,237	1,140,892	1,148,200	1,194,500
Greece—						
Mercury	311	73	1,980	384	1,323	n.a.
Italy—						
Mercury salts	25,768	2,072	30,151	38,140	47,115	112,000
Netherlands—						
Mercury	61,729	99,208	176,370	304,238	106,000	163,000
Mercury salts	59,525	48,502	52,911	52,911	84,000	60,000

(a) Excess of re-exports.

(b) Years ended June 30 of that stated.

(c) Years ended March 31 following that stated.

IMPORTS OF MERCURY, ETC. (cont.)

Lb. avdp.

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Norway—						
Mercury	87,819	26,078	14,332	40,016	12,599	20,000
Portugal—						
Mercury	5,911	34,599	7,939	27,950	26,103	12,346
Mercury salts	3,770	4,958	5,426	4,965	2,815	4,409
Sweden—						
Mercury	57,320	213,848	372,581	154,324	154,000	194,000
Switzerland—						
Mercury	98,672	121,501	72,792	53,517	40,827	97,616
Algeria—						
Mercury	2,425	2,646	2,425	1,543	5,100	6,800
Mercury salts	661	441	441	441	200	200
Angola—						
Mercury	126	97	187	141	31	172
Mercury salts	161	66	64	68	24	99
Belgian Congo—						
Mercury	3,148	6,713	3,948	4,583	606	3,309
Mercury salts	54	11	893	44	159	152
Egypt—						
Mercury	2,302	2,668	3,803	4,460	38,801	11,912
Morocco—						
Mercury	873	1,323	721	1,045	1,292	697
Mozambique—						
Mercury	163	163	293	179	11	168
Sudan—						
Mercury	172	390	269	384	46	<i>n.a.</i>
Tunisia—						
Mercury	220	568	220	110	220	397
Cuba—						
Mercury	3,093	54,437	3,602	3,960	3,075	<i>n.a.</i>
Guatemala—						
Mercury	115	236	611	252	430	<i>n.a.</i>
Nicaragua—						
Mercury	234	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
United States—						
Mercury	4,936,732	1,546,904	3,596,016	3,192,364	2,292,008	2,290,715
Mercury salts	34,898	20,298	27,985	18,891	8,685	40,302
Argentina—						
Mercury	282	143	71,452	8,918	72,215	127,163
Mercury salts	5,315	2,006	8,386	8,521	2,824	1,625
Brazil—						
Mercury	183,914	193,323	179,099	530,238	106,622	58,180
Chile—						
Mercury	4,782	4,353	820	338	<i>n.a.</i>	<i>n.a.</i>
Mercury salts	2,729	1,812	1,935	1,832	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Mercury	4,374	6,632	165,682	3,530	2,712	7,215
Mercury salts	46,784	42,137	19,061	52,649	9,546	15,875
Peru—						
Mercury	1,153	882	1,929	1,327	1,484	915
Mercury salts	503	406	717	1,023	500	659
Uruguay—						
Mercury	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,380	14,072	90
Venezuela—						
Mercury	95,122	24,174	434,143	46,623	38,590	<i>n.a.</i>
Mercury salts	11,444	6,109	4,707	9,720	7,317	<i>n.a.</i>
Formosa—						
Mercury	3,556	2,099	16,175	16,211	17,070	15,946
Indonesia—						
Mercury	2,185	97,266	19,019	11,947	5,463	9,129

IMPORTS OF MERCURY, ETC. (cont.)

Lb. avdp.

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
Iran (a)—						
Mercury	772	<i>n.a.</i>	5,459	9	132	<i>n.a.</i>
Mercury salts	16,019	<i>n.a.</i>	32,781	15,785	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Mercury	68,185	406,023	1,048,172	1,015,791	22,260	1,032
Philippine Republic—						
Mercury	1,702	<i>n.a.</i>	320	—	873	295
Thailand—						
Mercury	<i>n.a.</i>	827	<i>n.a.</i>	831	8,375	1,411
Mercury salts	<i>n.a.</i>	489	2,447	22,505	791	985
Turkey—						
Mercury	185	46	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Mercury salts	3,865	767	1,455	2,932	1,131	3,973

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

MICA
PRODUCTION OF MICA

Lb. avdp.

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Kenya—						
Block and sheet	—	1,622	—	—	16,000	21,908
Northern Rhodesia—						
Sheet	6,464	4,501	5,821	627	1,940	253
Southern Rhodesia—						
Block and sheet	184,000	142,000	124,000	70,000	106,000	1,220,000
South West Africa	—	—	—	—	—	234,000
Tanganyika—						
Sheet	170,000	150,000	130,000	150,000	110,000	120,000
Waste	63,000	614,000	280,000	—	25,000	190,000
Uganda	525	—	—	—	—	—
Union of South Africa—						
Sheet	3,968	11,240	1,092	1,318	1,088	492
Waste	4,108,000	7,818,000	5,038,000	4,226,000	4,254,000	3,762,000
Canada (c)—						
Rough mine-run or						
rifted	11,416	25,275	40,826	2,577	4,608	8,641
Trimmed	18,939	24,317	22,355	40,165	29,834	16,336
Splittings	1,901	—	2,000	16,385	—	—
Sold for mechanical						
splitting	40,150	8,000	16,000	65,612	54,717	23,250
Ground	937,076	943,158	1,493,410	911,138	1,380,530	591,356
Scrap	687,205	639,958	269,220	243,193	35,244	174,251
Ungraded	10,083	—	—	3,346	—	—
By varieties—						
Phlogopite and						
biotite	1,440,770	1,136,390	1,663,803	1,265,929	1,061,972	813,509
Muscovite and schist	266,000	504,318	180,008	16,487	442,961	325
Ceylon	—	100	—	—	—	—
India (a)—						
Blocks	3,611,000	4,899,000	12,336,000	4,410,500	5,244,500	6,306,400
Splittings	10,868,000	16,728,000	14,663,000	16,644,000	14,273,300	15,998,800
Ground and waste	23,016,000	27,178,000	27,283,000	27,915,300	23,945,500	29,082,000
Australia (b)—						
Block	84,619	56,649	28,837	36,713	67,231	168,065
Scrap	80,864	20,160	—	40,600	48,496	2,240
OTHER COUNTRIES						
Austria	—	—	—	—	130,000	220,000
France	340,000	306,000	225,000	377,000	459,000	n.a.
Norway (d)	4,000,000	4,100,000	2,400,000	4,700,000	4,900,000	5,700,000
Spain	16,984	19,339	27,487	24,921	20,371	5,110
Sweden (c)—						
Ground	331,000	368,000	392,000	474,000	421,000	n.a.
Angola—						
Sheet	23,975	32,690	53,564	46,734	47,181	20,258
Waste and splittings	361,488	516,000	968,000	844,000	716,943	383,400
Malagasy Republic—						
Phlogopite (block and						
splittings)	1,155,000	596,000	1,187,000	2,123,000	2,031,300	2,193,000
Morocco	29,000	154	—	—	—	—
Mozambique	1,698	28,847	r 26,817	66,513	4,572	12,165
Sudan—						
Block	—	—	—	—	—	—
Scrap	—	—	—	(a)13,311	{ 225,900	—
					{ 154,000	—

(a) Exports.

(b) The following amounts of damourite were also produced (lb. avdp.): 1954—1,151,000; 1955—977,000; 1956—1,057,000; 1957—1,456,000; 1958—1,080,000; 1959—1,100,000.

(c) Sales.

(d) Including waste.

PRODUCTION OF MICA (cont.)

Lb. avdp.

Producing Country	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
United States (a)—						
Sheet (uncut)	668,788	642,113	887,871	690,052	661,344	706,395
Scrap (b)	162,146,000	190,864,000	172,618,000	184,876,000	186,694,000	199,882,000
Argentina—						
Sheet	} 529,000	{ 99,000	309,000	212,150	n.a.	n.a.
Waste			139,000	110,000	2,000	n.a.	n.a.
Brazil	3,962,000	3,051,000	2,926,000	3,265,000	2,829,000	2,553,000
Formosa	44,000	—	29,000	11,000	700	44
TOTAL*	217,510,000	260,030,000	243,890,000	252,500,000	249,000,000	271,000,000

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

(a) Sold or used by producers.

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

EXPORTS OF MICA

Lb. avdp.

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Splittings	7,000	—	} 3,839,000	3,382,000	2,948,000	2,964,000
Ground and waste	2,522,000	3,214,000				
Rhodesia and Nyasaland—						
Unmanufactured (a)	193,230	145,394	121,421	756,029	1,104,842	986,423
Tanganyika—						
Unmanufactured (a)	230,100	665,600	407,600	149,500	132,400	309,000
Union of South Africa—						
Waste	7,732,000	7,050,000	3,508,000	3,966,000	2,268,000	2,256,000
Canada—						
Rough	60,200	20,000	24,500	87,500	—	107,100
Trimmed block or sheet	17,400	46,900	41,800	66,000	51,900	24,200
Ground	240,000	900	92,000	24,000	78,000	46,000
Waste	453,600	313,000	119,500	184,700	170,200	246,500
Hong Kong—						
Unmanufactured (a)	125,200	27,200	1,900	13,100	79,900	14,700
India—						
Block	3,611,000	4,899,000	12,336,000	4,410,500	5,244,500	6,306,400
Splittings	10,868,000	16,728,000	14,663,000	16,644,000	14,273,300	15,998,800
Ground and waste	23,016,000	27,178,000	27,283,000	27,915,300	23,945,500	29,082,000
Other unmanufactured	n.a.	n.a.	n.a.	358,300	48,000	160,900
Manufactured	n.a.	n.a.	n.a.	481,398	402,246	479,054
Australia (b)—						
Unmanufactured	5,385	25,466	9,570	4,661	29,535	33,818
Manufactured	(£9,969)	(£9,098)	(£7,979)	(£7,698)	(£10,638)	(£13,434)
OTHER COUNTRIES						
Austria—						
Unmanufactured	352,700	344,800	99,000	178,300	111,100	(a) 54,700
Belgium-Luxemburg						
E.U.—						
Unmanufactured (a)	41,000	37,900	30,900	36,200	266,300	161,000
Manufactured	13,200	14,600	30,200	59,500	36,400	58,400
Denmark—						
Ground	41,900	59,700	25,600	24,500	31,300	18,000
Manufactured	5,300	5,700	4,800	15,400	5,300	15,000
France—						
Unmanufactured (a)	88,600	164,200	184,500	231,000	253,500	183,400
Ground	60,200	71,900	125,400	206,800	294,500	298,900
Manufactured	120,800	217,400	224,700	274,500	303,100	316,800
Germany (Federal)—						
Unmanufactured (a)	291,200	345,700	849,700	499,600	465,500	578,700
Manufactured	159,600	195,500	201,100	172,000	160,500	169,500
Italy—						
Manufactured	28,142	20,201	6,907	11,114	17,139	31,700
Netherlands—						
Unmanufactured	60,000	463,000	123,000	161,000	236,000	194,000
Norway—						
Unmanufactured	1,842,376	1,889,346	2,156,976	1,364,967	4,379,440	5,176,000
Waste	1,020,632	747,096	1,416,285	2,350,522	226,812	—
Sweden—						
Unmanufactured	33,000	26,000	9,000	18,000	22,000	37,000
U.S.S.R.—						
Unmanufactured	n.a.	522,000	313,000	306,000	223,000	373,000
Yugoslavia—						
Waste	32,624	33	521,779	95,570	69,710	252,932
Angola—						
Unmanufactured	16,612	38,153	66,000	46,618	36,467	20,020
Waste	17,637	45,781	985,000	1,226,652	789,290	2,486,371

(a) Including waste.

(b) Years ended June 30 of that stated.

EXPORTS OF MICA (cont.)

Lb. avdp.

Exporting Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Malagasy Republic—						
Unmanufactured ..	1,090,170	1,436,585	1,414,058	1,793,765	1,805,705	2,006,716
Morocco—						
Unmanufactured ..	49,494	8,391	3,042	—	—	—
Mozambique—						
Unmanufactured ...	1,763	3,818	536	3,772	661	9,623
Mexico—						
Unmanufactured ..	1,190	1,713	59,900	33,540	—	31,667
Manufactured ..	89,463	9,484	9,949	19,581	—	—
Waste	18,279	177,346	254,788	66,983	44,485	—
United States—						
Unmanufactured ..	318,518	447,491	546,673	911,006	1,030,540	1,072,894
Ground	6,058,118	5,808,347	8,901,497	9,256,170	8,198,367	8,915,109
Manufactured ..	280,415	372,548	343,159	541,432	254,198	216,040
Argentina—						
Unmanufactured ..	74,047	344,067	586,650	258,382	191,176	404,061
Brazil—						
Unmanufactured ..	1,457,758	1,869,383	2,163,094	1,815,826	1,783,352	1,742,201
Manufactured ..	4,048	461	36,938	27,079	35,025	51,471
Japan—						
Unmanufactured (a) ..	7,000	46,000	40,000	9,000	29,000	13,000
Manufactured	10,172	13,640	21,632	20,394	14,465	37,232

(a) Including waste.

IMPORTS OF MICA

Lb. advp.

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Block	1,404,000	1,118,000	1,053,000	1,178,000	954,000	1,033,000
Splittings	2,072,000	2,616,000	1,667,000	1,655,000	2,482,000	1,541,000
Ground and waste	14,197,000	10,765,000	8,048,000	13,704,000	7,150,000	6,933,000
Tanganyika—						
Unmanufactured (a)	—	13,200	—	8,800	33,600	81,800
Union of South Africa—						
Mica and micanite sheets	109,586	51,203	120,961	48,575	33,500	<i>n.a.</i>
Canada—						
Unmanufactured	232,700	198,900	324,900	501,900	1,047,700	1,340,400
Manufactured	(£132,777)	(£174,987)	(£193,901)	(£162,307)	(£139,476)	(£156,720)
Jamaica—						
Unmanufactured	—	571	545	7,415	40,922	125,579
Manufactured	2,124	104	165	1,567	409	548
Trinidad and Tobago—						
Unmanufactured (a)	—	15,680	11,648	41,700	25,300	55,000
Manufactured	398	31	114	4,714	1,102	488
Hong Kong—						
Unmanufactured (a)	151,600	10,100	300	23,400	51,100	130,400
India—						
Block	36,000	320,000	2,000	5,800	—	—
Splittings	105,000	60,000	13,000	79,200	—	—
Sarawak—						
Unmanufactured (a)	4,000	40,000	13,000	22,000	9,000	(c) 2,240
Australia (b)—						
Block and sheet	48,991	54,400	45,791	25,022	21,653	21,215
Splittings	131,108	168,794	185,807	138,838	222,469	130,356
Ground	14,974	95,195	58,496	103,129	184,091	204,008
Waste	112,004	703,385	473,030	170,240	572,320	543,656
Manufactured	(£12,151)	(£26,616)	(£16,315)	(£12,750)	(£11,002)	(£8,471)
New Zealand—						
Unmanufactured	(£NZ20,103)	(£NZ17,273)	(£NZ10,236)	(£NZ10,535)	(£NZ20,283)	(£NZ18,186)
Waste	29,000	(£NZ 743)	(£NZ 930)	(£NZ 1,146)	(£NZ 1,186)	(£NZ2,457)
OTHER COUNTRIES						
Austria—						
Unmanufactured	370,400	552,300	965,800	1,187,000	788,200	(a) 564,600
Belgium-Luxemburg						
E.U.—						
Unmanufactured (a)	2,569,900	2,367,300	2,776,500	3,293,000	1,682,300	2,231,300
Manufactured	94,358	86,000	78,300	60,600	54,900	46,300
Denmark—						
Unmanufactured	133,800	32,000	29,100	78,300	19,000	} 1,530,000
Ground	5,852,400	2,784,400	5,020,800	4,001,600	1,480,000	
Manufactured	257,900	223,100	180,800	153,400	55,600	95,000
Finland—						
Manufactured	29,837	59,549	30,523	30,541	41,535	41,337
France—						
Unmanufactured (a)	2,078,300	2,513,900	3,305,700	3,828,300	5,004,100	2,491,200
Ground	2,038,600	1,898,600	2,174,200	2,615,300	2,763,300	1,962,300
Manufactured	69,400	141,500	132,500	114,200	65,000	32,800
Germany (Federal)—						
Unmanufactured (a)	4,399,300	6,470,300	7,173,200	7,974,800	7,684,200	8,921,000
Manufactured	55,600	127,600	127,000	146,200	215,800	195,300
Italy—						
Unmanufactured	226,443	186,114	197,274	380,549	1,286,816	1,004,200
Ground	559,119	710,071	1,132,001	951,872	887,731	} 5,194,500
Waste	8,713,913	9,201,139	34,815,098	53,352,974	34,270,431	
Manufactured	331,908	527,314	492,526	416,588	444,860	431,900

(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	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Netherlands—						
Unmanufactured ..	1,217,000	895,000	1,003,000	796,000	1,660,000	1,329,000
Manufactured ..	126,000	152,000	115,000	130,000	104,000	119,000
Norway—						
Unmanufactured (a) ..	4,012,481	3,745,080	2,562,060	5,508,077	5,294,511	4,870,000
Manufactured ..	34,830	24,663	31,396	35,278	83,394	68,000
Portugal—						
Unmanufactured ..	78,105	75,374	106,128	115,811	175,327	172,448
Manufactured ..	6,354	9,154	16,327	8,763	9,817	10,615
Spain ..	27,600	64,002	146,025	146,577	4,500,337	271,052
Sweden—						
Unmanufactured ..	1,590,000	2,231,000	1,867,000	2,443,000	2,123,000	1,720,000
Manufactured ..	40,000	60,000	60,000	46,000	53,000	53,000
U.S.S.R.—						
Unmanufactured ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	254,000	922,000	2,621,000
Yugoslavia—						
Unmanufactured ..	2,363	498	1,235	—	—	11,830
Manufactured ..	152	8,314	22,170	8,080	3,732	3,849
Algeria—						
Unmanufactured (a) ..	—	200	55,800	158,300	155,000	70,100
Ground ..	3,300	27,600	71,600	125,500	257,700	261,000
Manufactured ..	13,000	4,600	7,700	7,300	4,900	5,700
Belgian Congo—						
Unmanufactured ..	<i>n.a.</i>	494	2,978	10,055	265	2,154
Manufactured ..	<i>n.a.</i>	<i>n.a.</i>	4,116	22,663	2,359	2,088
Egypt—						
Unmanufactured ..	265	1,506	476,386	86,972	222,931	371,576
Manufactured ..	8,464	10,536	7,855	3,349	4,301	5,959
Morocco—						
Unmanufactured (a) ..	113,977	444,417	1,131	4,608	11,431	2,204
Ground ..	1,347	2,204	27,558	—	452	—
Manufactured ..	10,981	5,814	2,974	8,378	2,315	2,718
Tunisia—						
Unmanufactured ..	74,500	16,800	—	4,000	22,700	} 4
Ground ..	27,117	220	6,200	—	9	
Mexico—						
Unmanufactured ..	83,015	76,348	{ 158,843	201,053	57,347	98,703
Waste ..				7,566	37,942	272,231	484,724
United States—						
Unmanufactured ..	1,789,407	1,747,106	1,958,907	1,841,840	2,181,056	3,224,698
Ground ..	200,000	—	69,000	46,000	48,238	46,049
Waste ..	9,293,922	18,921,690	14,435,938	10,373,171	8,128,613	9,287,998
Films and splittings ..	6,429,839	12,194,412	10,529,034	11,310,980	9,937,286	9,866,427
Other manufactures ..	94,770	117,517	225,184	173,694	120,728	171,039
Brazil—						
Unmanufactured ..	3,014	7,534	5,033	5,033	5,044	—
Manufactured ..	7,491	4,676	1,257	3,902	2,119	8,649
Chile—						
Unmanufactured ..	<i>r</i> 193,887	<i>r</i> 136,678	7,882	26,672	<i>n.a.</i>	<i>n.a.</i>
Manufactured ..	<i>r</i> 7,901	<i>r</i> 18,542	28,689	13,233	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Unmanufactured ..	4,747	13,682	123,862	165,225	27,760	198,696
Manufactured ..	4,493	6,228	6,277	642	3,338	9,703
Peru—						
Ground and waste ..	18,911	33,468	75,288	119,418	127,790	167,296
Venezuela—						
Unmanufactured ..	2,216,966	1,209,872	2,866,331	3,225,673	2,420,012	<i>n.a.</i>
Formosa—						
Unmanufactured ..	112	4,643	7,319	2,798	13,673	2,751

(a) Including waste.

IMPORTS OF MICA (cont.)

Lb. advp.

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
Indonesia—						
Manufactured	10,545	1,074	6,281	34,374	2,866	51,456
Japan—						
Unmanufactured	1,554,000	1,241,000	1,349,000	1,171,000	983,000	1,881,000
Ground	<i>n.a.</i>	<i>n.a.</i>	716,000	1,543,000	816,000	1,978,000
Waste	1,369,000	853,000	3,197,000	3,845,000	2,030,000	4,074,000
Manufactured	6,700	2,771	626	1,867	183	137
Philippine Republic—						
Unmanufactured	<i>n.a.</i>	<i>n.a.</i>	152,300	38,874	77,473	81,721
Thailand—						
Unmanufactured	328	412	9	22	4	7
Manufactured	326	150	937	86,796	847	1,614
Turkey—						
Unmanufactured	406	2,253	21,001	—	7,707	19,590
Manufactured	117	2,621	2,463	2,116	10,055	6,003

MOLYBDENUM
PRODUCTION OF MOLYBDENUM ORE
(MoS₂ content or equivalent)

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Union of South Africa ..	—	—	—	r 11	7	—
Canada (a)	336	620	627	584	662	632
Australia	1	2	—	2	4	—
OTHER COUNTRIES						
Austria (b)	—	13	—	—	—	—
Norway	249	284	272	295	360	379
Portugal	3	8	8	13	—	—
Mexico	195	41	24	22	42	42
United States	43,684	46,002	42,787	45,237	30,579	37,941
Chile	2,044	2,088	2,312	2,197	2,109	2,800
Peru	2	—	—	—	2	—
Japan	334	326	392	446	190	628
Korea (South)	16	17	21	23	57	34
Philippine Republic ..	—	—	—	—	—	72
TOTAL*	46,864	49,401	46,443	r 48,830	34,012	42,500

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

(a) Shipments.

(b) Wulfenite.

EXPORTS OF MOLYBDENUM ORE, ETC.

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ferro-molybdenum ..	248	430	439	161	296	333
Canada—						
Oxide	<i>n.a.</i>	660	589	499	763	1,673
OTHER COUNTRIES						
France—						
Oxide and molybdates..	5	4	2	2	7	4
Germany (Federal)—						
Metal	7	14	58	40	9	35
Norway—						
Ore	312	298	289	288	390	414
Sweden—						
Ferro-molybdenum ..	50	184	302	291	353	266
Mexico—						
Ore and concentrates (<i>MoS₂ content</i>) ..	111	—	8	—	26	44
United States—						
Ore and concentrates (<i>MoS₂ content</i>) ..	10,087	10,857	13,389	18,962	8,908	14,037
Metal, alloys and scrap ..	15	10	16	44	6	7
Ferro-molybdenum ..	111	156	422	171	101	111
Wire, powder and semi- fabricated	23	16	16	21	16	10
Chile—						
Ore	2,264	2,862	r 2,476	2,806	1,788	3,894
Peru—						
Ore (<i>MoS₂ content</i>) ..	3	—	—	—	4	—
Japan—						
Ore	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	27	339	—

IMPORTS OF MOLYBDENUM ORE, ETC.

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore	6,007	5,583	5,685	5,565	3,713	4,658
Metal	3	7	27	11	10	19
Canada—						
Oxide	189	294	427	213	136	137
Australia (a)—						
Ferro-molybdenum ..	152	97	114	158	129	140
OTHER COUNTRIES						
Austria—						
Oxide	1	20	59	72	86	172
Ferro-molybdenum ..	65	19	27	132	65	50
Belgium-Luxemburg E.U.—						
Oxide	10	8	13	32	11	46
Molybdates	12	13	25	13	42	17
Ferro-molybdenum ..	67	266	179	243	109	265
Finland—						
Ferro-molybdenum ..	34	39	36	72	40	102
France—						
Ore	<i>n.a.</i>	<i>n.a.</i>	2,772	3,349	3,295	2,984
Metal and alloys .. .	3	8	10	9	11	7
Oxide and molybdates..	2	3	20	8	16	10
Germany (Federal)—						
Ore	3,722	3,706	4,913	5,057	5,149	6,041
Metal	17	28	20	13	25	35
Hungary—						
Ferro-molybdenum ..	20	46	30	39	49	<i>n.a.</i>
Italy—						
Ore	173	429	405	529	444	679
Metal	3	4	7	7	6	5
Ferro-molybdenum ..	184	169	276	303	<i>n.a.</i>	<i>n.a.</i>
Netherlands—						
Ferro-molybdenum ..	24	32	40	35	35	21
Sweden—						
Ore	1,067	1,586	1,788	2,249	1,444	1,643
Ferro-molybdenum ..	49	68	59	76	133	394
United States—						
Ore (<i>MoS₂ content</i>) ..	115	100	—	20	1	—
Japan—						
Ore and concentrates ..	691	244	1,352	3,636	27	1,624

(a) Years ended June 30 of that stated.

NICKEL
PRODUCTION OF NICKEL ORE
(Metal content)

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Southern Rhodesia ..	<i>n.a.</i>	<i>n.a.</i>	40	72	3	—
Union of South Africa (a) ..	1,886	2,320	3,236	<i>r</i> 3,152	1,137	<i>n.a.</i>
Canada (b)	143,999	156,186	159,388	167,820	124,606	165,289
TOTAL	146,000	159,000	162,664	<i>r</i> 171,044	125,746	167,000
OTHER COUNTRIES						
Finland	(c) 167	(m) 118	(m) 146	(m) 79	(m) 112	(m) 371
Greece (i)	—	—	800	1,100	500	—
Poland	815	869	1,179	1,250	1,329	(b) 1,300
U.S.S.R. (d)	41,000	43,000	46,000	49,000	52,000	52,000
Morocco	<i>n.a.</i>	149	127	84	182	237
Cuba (e)	17,697	(i) 18,500	(i) 19,500	(i) 25,000	<i>n.a.</i>	<i>n.a.</i>
United States (f) ..	742	3,399	6,002	8,991	10,482	10,362
Bolivia (j)	—	—	3	2	—	2
Venezuela	—	1	11	31	37	26
Burma (g)	103	64	59	66	328	136
Iran (k)	15	12	16	15	(l) 15	<i>n.a.</i>
Japan	—	97	45	—	—	—
Korea (South)	42	—	150	66	20	6
New Caledonia (h) ..	13,479	24,326	29,051	42,600	14,000	(i) 32,000
TOTAL*	<i>r</i> 74,000	<i>r</i> 91,000	<i>r</i> 103,000	<i>r</i> 128,000	100,000	120,000
WORLD'S TOTAL* ..	<i>r</i> 220,000	<i>r</i> 250,000	<i>r</i> 266,000	299,000	230,000	290,000

*Nickel ores are also produced in Albania and Brazil. 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 concentrates.

(d) Source: Metallgesellschaft.

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

	Long tons			
1954	12,987	1957	19,862	
1955	13,516	1958	17,662	
1956	14,341	1959	17,552	

(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	
1954	7,683	1957	10,747	
1955	10,304	1958	6,617	
1956	13,268	1959	8,427	

(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	
1954	8,286	1957	10,153	
1955	9,909	1958	8,685	
1956	9,502	1959	11,678	

(i) Estimated.

(j) Exports.

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

(l) United States Bureau of Mines' estimate.

(m) Nickel content of nickel sulphate. Figure for 1959 also includes nickel in concentrates.

EXPORTS OF NICKEL

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ingots, cubes, rondels, etc. (a)	13,906	12,492	10,703	10,557	12,044	20,215
Plates, sheets, etc. .. .	246	176	135	148	162	166
Other nickel, worked .. .	638	1,282	1,206	1,478	1,949	1,481
Wire (alloyed) .. .	766	793	800	870	976	698
Bars, rods, sheets, etc. (alloyed) .. .	411	477	468	569	722	648
Other alloyed, worked .. .	2,018	881	1,052	1,056	810	816
Scrap and alloyed .. .	2,574	1,962	1,247	1,219	1,574	1,415
Nickel oxide .. .	273	292	359	398	373	452
Rhodesia and Nyasaland—						
Ore .. .	49	66	96	286	8	32
Union of South Africa—						
Matte (Ni content) .. .	1,648	1,622	1,846	2,072	1,791	n.a.
Canada—						
Matte or speiss (Ni content) .. .	58,770	58,888	63,138	65,798	60,410	58,623
Nickel, fine .. .	81,616	95,065	93,175	92,194	76,043	91,171
Nickel oxide (Ni content)	1,327	1,297	1,578	1,524	1,244	3,712
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Ingots, scrap, etc. .. .	62	100	112	75	272	755
Bars, sheets and wire .. .	4	2	3	7	2	4
Denmark—						
Crude and scrap .. .	130	(b) 150	(b) 210	87	81	43
Finland—						
Crude and scrap .. .	—	59	—	3	1	4
France—						
Ore .. .	10	—	n.a.	n.a.	n.a.	n.a.
Matte and speiss .. .	177	—	—	15	—	59
Crude and ingots .. .	1,435	1,782	1,354	1,324	612	3,548
do. (alloys) .. .	40	51	8	1	—	11
Scrap (a) .. .	409	643	311	99	12	406
Bars and wire .. .	28	5	1	1	1	15
do. (alloys) .. .	36	31	15	20	24	31
Germany (Federal)—						
Crude and scrap .. .	15	213	614	1,248	1,372	1,332
Bars, sheets, wire, etc. (a)	1,127	899	1,706	1,210	1,129	1,333
Italy—						
Ore .. .	—	12	—	5	—	—
Ingots (a) .. .	8	—	1	—	1	—
Bars, sheets and wire .. .	10	—	1	3	1	7
do. alloys .. .	225	300	262	206	376	296
Netherlands—						
Scrap .. .	70	31	85	117	138	108
Norway—						
Ore .. .	—	—	—	861	—	—
Crude .. .	(a) 16,198	(a) 17,224	(a) 18,279	(a) 19,862	(a) 21,079	25,518
Sweden—						
Crude .. .	30	12	47	261	73	2

(a) Including alloys.

(b) Scrap only.

EXPORTS OF NICKEL (cont.)

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Switzerland—						
Crude and scrap (a) ..	357	409	468	393	836	466
Bars, sheets, etc. (a) ..	731	517	527	601	641	971
Cuba—						
Nickel oxide	19,013	15,339	16,251	21,876	22,274	<i>n.a.</i>
United States—						
Ingots, bars, rods, etc. and scrap (a) .. .	11,444	17,247	13,496	10,660	10,676	} 10,552
Sheets, plates and strips (a) .. .	840	578	1,112	729	771	
Bolivia—						
Ore (<i>Ni</i> content) ..	—	—	3	2	—	2
Burma—						
Speiss	<i>n.a.</i>	<i>n.a.</i>	90	288	396	324
Japan—						
Ferro-nickel	2,804	3,383	5,413	11,135	408	—
Ingots, slabs and grains ..	846	1,153	2,557	2,898	272	2
do. (alloys)	395	481	517	181	—	1
Bars, rods, plates and sheets	516	441	215	19	62	3
Korea (South)—						
Ore	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	310	—
New Caledonia—						
Ore	146,178	330,970	761,009	1,079,765	177,122	760,310
Matte	7,426	8,784	6,811	10,138	8,494	7,998
Ferro-nickel	11,567	14,219	12,673	14,093	9,395	17,905

(a) Including alloys.

IMPORTS OF NICKEL

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore, concentrates and matte	32,863	32,989	34,573	35,951	36,748	33,082
Ingots, cubes, rondels, etc.	5,930	8,690	7,989	8,837	10,195	16,644
Plates, sheets, etc. ..	18	3	3	9	5	—
Ingots, sheets, etc. (alloys)	2,855	3,014	2,697	2,657	3,979	2,515
Scrap and alloyed ..	2,063	2,085	1,390	1,300	1,896	1,219
Nickel oxide	624	720	729	1,093	918	552
Canada—						
Ingots or blocks (a) ..	186	401	216	288	183	214
Bars, rods, sheets, etc.(a)	1,228	1,476	2,065	1,580	1,741	1,444
Hong Kong—						
Sheets, rods, wire, etc.	82	59	43	98	265	34
India—						
Crude	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	298	393	695
Bars, sheets and tubes ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	46	20	3
Scrap	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	334	324	176
Australia (b)—						
Pigs and ingots	585	510	716	808	772	641
Bars, sheets, tubes, etc.	17	15	23	149	21	20
Pigs and ingots, alloyed	27	228	458	222	230	235
Bars, sheets, tubes, etc. alloyed	170					
New Zealand—						
Ingots, bars, sheets, etc. (a)	11	12	11	13	37	51
Irish Republic—						
Nickel alloys and manufactures	11	33	48	38	70	83
OTHER COUNTRIES						
Austria—						
Crude	1,058	1,323	1,973	1,792	1,329	2,572
Anodes	78	92	45	44	57	17
Bars, sheets and wire ..	12	13	19	36	15	137
do. (alloys)	138	158	189	119	130	
Scrap	6	42	37	23	—	—
Belgium-Luxemburg						
E.U.—						
Ingots, etc.	351	465	593	567	714	1,390
Scrap	8	158	45	69	146	93
Bars, sheets and wire ..	104	118	107	110	84	76
Denmark—						
Crude and scrap	106	105	142	180	133	67
Finland—						
Crude and scrap	185	448	296	312	335	276
France—						
Ore	760	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Matte and speiss	13,358	8,864	7,104	7,762	7,781	7,881
Ferro-nickel	1,467	13,911	13,566	16,492	11,195	10,005
Crude and ingots	1,142	1,551	1,521	2,341	2,821	3,974
do. (alloys)	5	463	54	91	27	47
Scrap (a)	81	122	99	485	392	1,284
Bars and wire	186	132	77	84	81	93
do. (alloys)	243	345	276	309	360	224

(a) Including alloys.

(b) Year ended June 30 of that stated.

IMPORTS OF NICKEL (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (Federal)—						
Ore	56	54	20,008	406	—	35
Matte and speiss .. .	55	4	3	967	863	349
Crude and scrap .. .	13,079	18,273	17,642	14,871	14,718	20,355
Bars, sheets, wire, etc. (a)	95	198	161	198	395	520
Italy—						
Ingots and alloyed .. .	1,833	2,167	2,218	2,497	2,517	2,203
Scrap	488	369	481	623	806	473
Bars, sheets and wire .. .	100	64	44	82	88	56
do. alloys	225	361	411	377	338	258
Netherlands—						
Crude and scrap .. .	338	315	340	370	341	358
Bars, sheets and wire .. .	318	186	174	124	173	222
Norway—						
Ore	74	—	—	—	—	49
Matte (copper-nickel) .. .	34,624	37,111	43,795	45,823	48,398	54,159
Crude bars, rods, etc. .. .	14	5	7	20	22	52
Portugal	35	43	28	58	124	77
Spain—						
Crude, ingots, etc. .. .	112	103	132	143	807	602
Bars, etc. (a) .. .	67	163	177	222	688	1,221
Sweden—						
Crude	3,325	3,908	4,256	5,558	4,858	7,775
Switzerland—						
Crude and scrap (a) .. .	519	695	759	716	1,085	1,177
Bars, sheets, etc. (a) .. .	377	576	669	826	907	537
Yugoslavia—						
Crude	32	18	92	21	53	168
Algeria—						
Sheets, wire and alloys .. .	5	—	1	1	21	10
Egypt—						
Bars, sheets, tubes .. .	27	32	48	65	54	40
Cuba—						
Ingots, bars, sheets, etc. .. .	57	98	152	112	128	<i>n.a.</i>
Mexico—						
Ingots	137	145	100	112	194	93
Bars, sheets and wire .. .	<i>n.a.</i>	<i>n.a.</i>	59	94	90	89
United States—						
Ore and matte	12,621	8,114	11,446	11,765	4,084	3,635
Pigs, ingots, scrap, etc. .. .	87,238	98,096	96,082	89,462	56,307	74,592
Bars, rods and sheets .. .	118	16	16	25	70	90
Nickel oxide	28,808	29,372	29,424	33,107	26,449	29,173
Argentina—						
Ingots and sheets .. .	59	58	110	156	160	18
Brazil—						
Ingots, bars, sheets, etc. .. .	319	206	269	500	382	247
Chile—						
Ingots	50	89	112	39	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Ingots, etc.	25	17	20	24	36	16
Bars, sheets and wire .. .	39	107	66	71	41	50
Japan—						
Ore	144,449	302,673	654,637	1,025,660	200,316	712,242
Matte	120	—	—	109	—	—
Ingots, slabs, grains (a) .. .	103	15	27	265	56	36
Bars, rods, sheets (a) .. .	3	25	42	34	44	16
Turkey—						
Ingots, bars and sheets .. .	11	—	1	5	4	16

(a) Including alloys.

NITROGEN COMPOUNDS
PRODUCTION OF NITRATES (NATURAL)

Long tons

Producing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
India—						
Nitrate of potash ..	(a) 3,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
OTHER COUNTRIES						
Spain—						
Nitrate of potash ..	680	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Chile—						
Nitrate of soda ..	1,549,445	1,515,893	1,140,868	1,288,871	1,259,848	1,243,901

Nitrate of soda is also produced in Peru and nitrified earth in China.

(a) Estimated.

ESTIMATED PRODUCTION OF MANUFACTURED NITROGEN COMPOUNDS*

Long tons

Producing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom (a)—						
Nitrogenous fertilizers expressed as 25% NH ₃	1,488,800	1,435,300	1,554,000	1,641,600	1,632,700	1,779,200
Actual ammonium sulphate	1,049,400	1,010,700	1,061,100	1,109,500	1,098,000	1,015,000
Union of South Africa (b)						
Nitrogen fertilizers (N content)	394	8,858	8,000	13,000	17,000	21,000
Canada—						
Ammonium sulphate	158,660	274,837	319,896	279,774	288,686	291,345
India—						
Ammonium sulphate	340,222	393,096	388,992	379,656	384,228	378,504
Pakistan—						
Ammonium sulphate	n.a.	n.a.	n.a.	—	19,861	n.a.
Australia—						
Ammonium sulphate (b)	70,811	77,800	94,100	110,898	118,732	105,380
OTHER COUNTRIES						
Austria—						
Nitrogen fertilizers	559,191	624,881	651,808	773,610	838,402	904,770
Belgium—						
N content—						
Synthetic ammonia, etc.	220,171	205,963	231,875	230,056	270,578	298,840
Ammonium sulphate	15,346	15,208	16,298	16,735	17,964	15,970
Mixed fertilizers	7,417	6,838	10,440	11,728	21,259	21,150
Technical products	9,614	9,543	9,767	7,913	6,330	9,610
Bulgaria—						
Nitrogen fertilizers	n.a.	n.a.	101,804	120,625	n.a.	n.a.
Czechoslovakia—						
Nitrogen fertilizers (N content)	38,168	59,448	63,476	73,228	106,370	131,159
Finland—						
Cyanamide	1,673	n.a.	n.a.	2,932	n.a.	n.a.
Nitrate of lime	59,020	n.a.	n.a.	n.a.	n.a.	n.a.
Ammonium nitrate	547	n.a.	n.a.	295	n.a.	n.a.
Ammonium sulphate	11,479	10,252	3,167	731	n.a.	n.a.
France (b)—						
Ammonium sulphate	168,900	193,130	216,480	204,300	185,150	206,762
Cyanamide	42,960	43,080	30,530	12,000	12,110	9,173
Nitrate of soda	29,590	31,430	30,200	26,680	16,750	15,708
Nitrate of lime	197,680	243,160	234,020	261,620	255,470	256,071
Nitrate of ammonia	264,310	343,930	351,950	377,630	469,980	473,246
"Ammonitrate"	343,050	420,730	592,550	679,400	759,970	872,066
Ammonium phosphate	2,420	5,147	5,670	5,960	n.a.	n.a.
Germany (Federal)—						
Chemical nitrogen (N content)—						
Fertilizer	685,039	751,013	792,844	958,075	1,060,254	1,001,229
Technical use	138,164	162,203	153,243	150,716	159,823	193,228

*Includes by-product ammonium sulphate which is separately recorded as far as available on pages 80-83.

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

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

ESTIMATED PRODUCTION OF MANUFACTURED NITROGEN COMPOUNDS (cont.)

Long tons

Producing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (East)—						
<i>N content</i> —						
Ammonium sulphate	154,007	163,064	166,453	165,240	168,249	173,165
Cyanamide	10,312	13,935	13,906	13,811	15,774	17,869
Lime ammonium nitrate	92,627	95,628	98,082	104,120	113,445	116,312
Potassium ammonium nitrate	11,032	11,865	11,874	11,814	12,025	11,910
Hungary—						
Nitrogen fertilizers	61,490	59,390	92,910	78,604	<i>n.a.</i>	241,276
Iceland (a)—						
Ammonium nitrate						
<i>(N content)</i>	700	5,800	6,800	6,800	6,400	5,900
Italy—						
Ammonium sulphate	672,933	727,142	774,597	763,990	901,636	1,147,818
Cyanamide	194,843	226,613	197,988	121,437	185,635	166,570
Nitrate of soda	1,064	6,996	6,099	5,871	6,488	6,551
Nitrate of lime	357,636	377,228	301,986	296,481	323,348	287,788
Nitrate of ammonia	215,913	263,697	344,180	371,632	589,313	681,490
Di-ammonium phosphate	33,197	15,705	} 225,025	152,847	163,056	198,398
Ammonium phosphate	54,704	125,392				
Netherlands—						
Nitrogen fertilizers						
<i>(N content)</i>	265,000	287,000	(a) 296,400	(a) 324,300	(a) 374,300	(a) 387,500
Norway—						
Cyanamide	17,851	2,964	2,465	1,461	13,660	7,665
Nitrate of ammonia	4,970	5,974	5,234	7,530	8,793	11,237
Nitrate of lime	995,443	1,016,873	860,463	1,066,295	1,038,646	1,068,734
Nitrate of soda	2,090	2,133	3,082	3,608	820	1,389
Lime ammonium nitrate	58,657	65,706	95,603	59,132	63,555	39,736
Poland—						
Ammonium sulphate	80,600	98,800	104,000	107,000	110,000	116,000
Cyanamide	153,400	173,900	140,800	144,000	160,000	170,000
"Salezrak"	190,100	403,300	501,500	380,000	527,000	401,000
Portugal—						
Cyanamide	2,121	4,107	9,277	5,067	10,778	9,774
Ammonium sulphate	57,810	78,934	103,052	60,460	131,593	186,525
Spain—						
Cyanamide	8,697	17,021	21,359	5,537	2,428	1,415
Ammonium nitrate	37,608	68,160	73,731	78,165	45,291	49,216
Ammonium sulphate	119,947	141,811	134,523	143,962	180,933	213,482
Sweden—						
Compressed ammonia						
(100%)	12,121	12,659	15,704	14,942	13,490	<i>n.a.</i>
Ammonia (25%)	4,213	4,024	4,087	4,324	4,036	<i>n.a.</i>
Synthetic nitrogen fertilizer (<i>N content</i>)	26,042	25,023	26,734	32,119	32,145	<i>n.a.</i>
Switzerland (a)—						
<i>N content</i> —						
Cyanamide	1,800	2,000	1,700	1,500	1,200	1,500
Ammonium sulphate	400	1,000	1,000	1,400	2,000	2,500
Ammonium nitrate	3,600	5,000	4,400	4,400	4,900	5,400
Calcium nitrate	4,000	3,000	3,000	2,800	2,600	3,000
Mixed fertilizers	1,100	1,000	1,000	r 800	800	1,000
U.S.S.R. (a)—						
Nitrogen fertilizers						
<i>(N content)</i>	487,000	547,000	616,000	699,000	738,000	<i>n.a.</i>
Yugoslavia—						
Ammonium nitrate	3,344	16,462	16,521	19,970	22,820	23,620

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

ESTIMATED PRODUCTION OF MANUFACTURED NITROGEN COMPOUNDS (cont.)

Long tons

Producing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Yugoslavia (<i>cont.</i>)—						
Ammonium sulphate ..	2,316	3,458	5,797	7,066	8,654	<i>n.a.</i>
Cyanamide	15,128	15,228	15,450	17,442	21,367	<i>n.a.</i>
Egypt—						
Nitrate of lime	156,000	187,900	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Mexico (<i>a</i>)—						
Nitrogen fertilizers (<i>N content</i>)	14,100	14,200	<i>r</i> 12,900	12,900	(<i>b</i>) 13,000	(<i>b</i>) 13,000
United States—						
Sulphate equivalent of ammonia produced (coke-ovens)	792,172	933,749	870,359	905,112	660,036	639,913
Actual ammonium sulphate (coke-ovens)	734,659	876,184	788,125	811,520	571,802	553,807
Actual ammonium sul- phate (synthetic plants)	842,701	1,047,124	978,377	<i>r</i> 930,798	974,068	981,640
Anhydrous ammonia (synthetic plants) ..	2,443,284	2,903,213	3,016,395	<i>r</i> 3,332,645	3,463,195	4,026,176
Ammonium nitrate, original	1,683,449	1,859,327	1,948,712	2,308,935	3,197,600	2,557,947
Brazil (Volta Redonda)—						
Ammonium sulphate ..	6,126	5,872	6,662	5,731	<i>n.a.</i>	<i>n.a.</i>
Peru (<i>a</i>)—						
Nitrogen fertilizers (<i>N content</i>)	42,100	43,800	41,500	42,900	16,600	13,100
Formosa—						
Cyanamide	70,617	72,841	73,341	73,609	68,843	64,323
Ammonium sulphate ..	4,909	4,358	6,494	15,117	17,124	21,755
Nitro-phosphate	—	—	—	2,789	17,096	19,733
Nitro-chalk	—	—	—	1,910	31,979	42,673
Israel—						
Ammonium sulphate ..	—	—	<i>n.a.</i>	(<i>a</i>) 37,786	(<i>a</i>) 58,060	63,690
Japan—						
Ammonium sulphate ..	2,151,491	2,095,319	2,285,920	2,441,686	2,569,074	2,591,993
Cyanamide	511,677	502,814	499,902	398,226	436,574	404,524
Ammonium nitrate ..	37,191	33,695	45,538	46,675	46,273	49,884
Ammonium chloride ..	57,021	62,843	75,235	135,159	137,840	141,290
Philippine Republic (<i>a</i>)—						
Ammonium sulphate (<i>N content</i>)	6,200	6,700	6,500	8,000	8,271	13,803
Turkey—						
Ammonium sulphate ..	4,169	4,205	4,086	4,323	4,314	2,948

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

EXPORTS OF NITROGEN COMPOUNDS

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Nitrate of potash ..	1,198	1,007	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Nitrate of soda ..	536	165	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ammonium sulphate ..	338,758	203,928	24,651	205,804	304,287	213,968
Ammonium chloride ..	14,581	12,802	11,182	9,864	10,626	11,042
Ammonium nitrate ..	9,962	5,814	3,786	2,148	1,181	1,043
Ammonium phosphate ..	149	118	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Liquid ammonia ..	982	997	} 4,566	3,939	4,507	4,727
Anhydrous ammonia ..	4,054	4,439				
Other nitrogen fertilizers	6,373	4,296	1,436	1,317	2,023	3,174
Canada—						
Ammonium sulphate ..	138,179	(£3,992,173)	(£4,390,147)	(£3,470,267)	(£3,012,328)	(£3,162,368)
Nitrogen fertilizers ..	276,922	(£9,219,889)	(£6,133,443)	(£6,759,139)	(£6,266,116)	(£5,375,164)
Hong Kong—						
Nitrate of potash ..	84	142	213	320	368	356
Nitrate of soda ..	50	1	—	—	—	34
Ammonium sulphate ..	293,849	142,655	95,820	25,073	62,838	26,421
Synthetic nitrate ..	5,192	1,168	85	67	55,105	—
Ammonium chloride ..	336	86	118	261	128	47
India—						
Nitrate of potash ..	110	111	148	6	16	44
Nitrate of soda ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	57	45	11
Malaya—						
Nitrates of potash and soda ..	9	11	5	4	—	2
Other nitrogen fertilizers	2,063	1,463	2,667	1,749	823	767
Anhydrous ammonia ..	8	8	4	8	4	33
OTHER COUNTRIES						
Austria—						
Ammonium nitrate ..	80	—	—	—	—	<i>n.a.</i>
Anhydrous ammonia ..	431	577	1,250	1,602	561	<i>n.a.</i>
Belgium-Luxemburg						
E.U.—						
Nitrate of potash ..	119	49	21	33	32	25
Nitrate of soda ..	178	56	—	40	68	—
Nitrate of lime ..	1	11	—	—	—	—
Ammonium sulphate ..	532,121	480,884	579,869	537,145	650,857	747,867
Ammonium chloride ..	24	70	54	39	19	128
Ammonium nitrate ..	114,174	184,810	109,583	134,042	289,443	164,709
Ammonium phosphate ..	13,145	13,942	18,975	28,130	33,917	53,302
Cyanamide ..	1,641	7,992	11,719	8,833	3,160	7,844
Anhydrous ammonia ..	54	31	64	46	46	4,197
France—						
Nitrate of potash ..	980	1,225	3,418	3,072	2,876	2,149
Nitrate of soda ..	1,518	3,881	1,089	2,075	2,022	1,725
Nitrate of lime ..	12,250	5,484	4,413	5,907	12,485	10,598
Ammonium sulphate ..	(a) 162,576	(a) 69,556	79,097	118,518	133,514	86,478
Ammonium chloride ..	1,802	1,072	585	466	315	23
Ammonium nitrate ..	6,830	6,465	21,382	49,702	124,638	76,343
Cyanamide ..	908	537	855	226	838	158
Anhydrous ammonia ..	697	383	265	291	264	305
Germany (Federal)—						
Nitrate of potash ..	5,372	7,090	6,801	8,476	11,790	9,633
Nitrate of soda ..	21,378	4,964	3,588	4,515	19,214	24,745
Nitrate of lime ..	123,434	99,979	100,712	82,642	84,399	173,985
Ammonium nitrates ..	438,903	570,888	503,630	708,198	682,456	892,138
Ammonium chloride ..	7,470	8,758	8,021	8,967	9,719	11,405
Other nitrogen fertilizers	394,084	502,606	584,248	633,863	929,217	862,376

(a) May include some ammonium nitrate.

EXPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (East)—						
Nitrogen fertilizers (a)	61,644	81,875	88,206	81,260	94,123	100,657
Hungary—						
Nitrogen fertilizers	1,473	17,885	22,228	6,106	50,079	<i>n.a.</i>
Italy—						
Nitrate of soda	11	3	9	33	—	—
Nitrate of lime	10,355	16,200	609	—	1,163	4,876
Ammonium nitrate	80,306	98,058	125,981	164,193	256,261	434,903
Ammonium sulphate	141,074	216,721	263,941	236,833	312,959	609,206
Cyanamide	5,717	5,341	6,410	703	4	751
Netherlands—						
Nitrate of potash	12	18	51	31	65	53
Nitrate of soda	—	16	7	137	530	776
Nitrate of lime	51,135	33,286	55,339	48,853	54,582	67,268
Ammonium sulphate	281,141	317,268	305,019	359,905	317,290	307,377
Ammonium chloride	57	76	17	56	89	100
Ammonium nitrate	—	—	—	1	3	24
Lime ammonium nitrate	219,908	155,846	202,834	324,250	331,986	413,483
Anhydrous ammonia	1,475	1,969	1,654	1,952	1,846	2,023
Norway—						
Nitrate of soda	1,405	2,095	5,328	1,300	1,453	1,901
Nitrate of lime	924,232	869,105	904,658	988,927	906,955	1,039,323
Ammonium nitrate	188	191	1,091	559	3,197	2,537
Cyanamide	4,919	—	2	3,405	8,678	5,391
Anhydrous ammonia	489	753	665	660	1,255	—
Portugal—						
Ammonium sulphate	2,839	5,597	6,536	8,697	11,305	13,256
Spain—						
Ammonium sulphate	—	7	10	—	—	—
Synthetic nitrates	—	—	133	103	—	—
Sweden—						
Ammonium nitrate	15	2,972	20	61	1,650	124
Switzerland—						
Nitrate of potash (crude)	—	5	18	3,946	2,927	15
Nitrates of potash and soda (purified)	22	105	97	39	1	2
Ammonium sulphate, etc.	3,493	579	5,183	2,026	9,058	11,114
U.S.S.R.—						
Ammonium nitrate	<i>n.a.</i>	57,200	55,800	69,900	87,900	80,000
Ammonium sulphate	<i>n.a.</i>	57,300	55,300	46,800	66,300	67,900
United States—						
Nitrate of soda	22,604	10,379	3,641	3,197	2,827	1,402
Ammonium nitrate	15,145	69,567	118,790	r 130,929	80,733	79,211
Ammonium sulphate	180,579	546,792	681,028	r 708,020	345,391	356,853
Other nitrogen fertilizers	43,635	73,318	75,990	r 113,111	35,514	35,178
Nitrogen phosphatic fertilizers	76,479	75,810	39,346	71,687	44,234	61,671
Anhydrous ammonia	35,051	39,334	47,611	60,666	(b) 59,490	(b) 75,015
Chile—						
Nitrate of soda	1,486,754	1,234,485	1,140,680	1,180,756	1,109,327	1,027,701
Nitrate of potash	63,038	66,975	55,305	51,313	54,635	86,018
Israel—						
Ammonium sulphate	—	—	—	7,234	1,575	—
Japan—						
Cyanamide	60,072	33,010	9,948	115	4,282	45,616
Ammonium nitrate	3,849	2,559	984	4,486	6,172	9,723
Ammonium chloride	1,485	11,003	4,549	16,544	24,542	132
Ammonium sulphate	457,317	407,114	469,104	705,616	805,481	1,019,287
Anhydrous ammonia	<i>n.a.</i>	<i>n.a.</i>	311	350	428	318

(a) N content.

(b) Ammonia content.

IMPORTS OF NITROGEN COMPOUNDS

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Nitrate of potash ..	927	1,281	2,354	1,205	2,639	2,740
Nitrate of soda ..	13,354	18,754	17,924	20,401	12,891	9,320
Cyanamide ..	2,043	1,480	509	1,369	1,071	} 309,095
Ammonium sulphate ..	—	4	37,474	550	103	
Ammonium phosphate ..	35	90	609	4,680	8,123		10,834
Anhydrous ammonia ..	36	38	21	11	14	<i>n.a.</i>
Malta—						
Nitrate of soda ..	148	—	—	—	—	—
Ammonium sulphate ..	1,805	1,309	2,411	1,423	1,734	2,351
Gambia—						
Ammonium sulphate ..	—	—	18	2	130	1
Ghana—						
Ammonium sulphate ..	443	571	1,560	208	619	551
Kenya—						
Nitrate of soda ..	—	124	—	45	—	—
Other nitrogen fertilizers	3,935	8,097	8,321	9,122	5,386	7,979
Mauritius—						
Nitrogen fertilizers ..	23,783	26,909	37,485	29,787	26,487	38,352
Nigeria—						
Ammonium sulphate ..	4,390	4,177	3,717	502	2,145	567
Other nitrogen fertilizers	5	571	223	510	200	33
Rhodesia and Nyasaland—						
Nitrates (incl. fertilizers)	2,713	4,515	113	139	189	202
Anhydrous ammonia ..	} 1,112	855	241	240	218	859
Ammonium compounds						
Ammonium sulphate ..	20,125	36,735	34,281	55,014	27,161	19,270
Tanganyika—						
Nitrogen fertilizers ..	1,423	2,228	2,564	3,938	2,301	2,340
Uganda—						
Nitrogen fertilizers ..	761	2,247	3,931	2,294	2,803	3,851
Union of South Africa—						
Nitrate of potash ..	128	168	182	243	195	<i>n.a.</i>
Nitrate of soda ..	705	1,102	1,260	1,004	803	<i>n.a.</i>
Ammonium sulphate ..	62,872	84,529	40,259	53,328	45,119	<i>n.a.</i>
Ammonium chloride ..	410	576	760	1,039	2,192	<i>n.a.</i>
Ammonium nitrate ..	15,057	9,403	<i>r</i> 3,449	<i>r</i> 6,674	11,914	<i>n.a.</i>
British Guiana—						
Ammonium sulphate ..	11,731	11,967	17,758	17,648	17,755	18,531
British Honduras—						
Nitrogen fertilizers ..	539	268	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
British West Indies—						
Barbados—						
Nitrate of soda ..	—	10	35	—	—	—
Ammonium sulphate	9,365	10,779	11,933	16,721	8,657	10,424
Jamaica—						
Ammonium sulphate	} 20,250	} 18,554	20,480	14,130	16,314	14,566
Other nitrogen fertilizers ..			1,717	4,304	7,385	2,210
St. Vincent—						
Ammonium sulphate	544	490	391	793	785	653
Trinidad and Tobago—						
Ammonium sulphate	12,204	13,504	19,270	13,097	13,431	14,043
Canada—						
Nitrate of potash ..	442	554	487	467	607	662
Nitrate of soda ..	16,044	19,131	24,580	22,855	20,293	19,361
Ammonium sulphate ..	12,591	6,276	2,807	2,936	5,261	5,304

IMPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES (cont.)						
Canada (cont.)—						
Ammonium chloride ..	396	554	618	853	520	541
Ammonium nitrate ..	767	741	620	93	26	23
Anhydrous ammonia ..	24,124	20,796	15,867	24,165	15,308	4,994
Other nitrogen fertilizers	942	334	203	28	36	336
Ceylon—						
Ammonium sulphate ..	89,601	99,788	97,526	121,398	97,638	142,029
Cyanamide ..	363	251	171	244	58	49
Cyprus—						
Ammonium sulphate ..	4,878	10,035	13,013	16,049	17,529	13,798
Ammonium chloride ..	6	4	4	5	—	—
Other nitrogen fertilizers	5,526	5,040	6,924	12,391	8,076	14,627
Hong Kong—						
Nitrate of potash ..	362	564	664	595	1,079	621
Nitrate of soda ..	—	—	—	—	—	363
Ammonium sulphate ..	306,892	149,300	95,127	25,663	60,602	27,889
Synthetic nitrates ..	4,862	1,572	754	449	65,281	16
Ammonium chloride ..	107	394	584	892	909	709
India—						
Nitrate of soda ..	8,444	8,390	663	17,193	7,528	36,115
Ammonium sulphate ..	83	15,597	73,334	84,110	182,535	248,158
Ammonium phosphate ..	—	300	—	10	47	228
Ammonium chloride ..	4,293	2,643	1,280	330	257	190
Anhydrous ammonia ..	81	98	83	n.a.	n.a.	n.a.
Other nitrogen fertilizers	2,119	2,991	4,013	634	15,301	28,332
Malaya—						
Nitrogen fertilizers ..	42,820	51,604	55,805	79,306	72,425	91,785
Anhydrous ammonia ..	2,014	3,044	2,186	1,984	1,895	2,956
North Borneo—						
Ammonium sulphate ..	198	246	446	366	320	363
Other nitrogen fertilizers	8	30	8	27	1	—
Pakistan—						
Nitrate of soda ..	(a) 5	(a) —	5	—	—	—
Ammonium sulphate ..	(a) —	(a) 3	300	(b) 145,426	n.a.	—
Ammonium chloride ..	(a) 97	(a) 25	—	28	8	—
Anhydrous ammonia ..	(a) 151	(a) 64	30	96	34	14
Sarawak—						
Ammonium sulphate ..	663	802	1,829	1,735	1,239	1,570
Other nitrogen fertilizers	23	31	106	29	158	63
Australia (c)—						
Nitrate of potash ..	272	297	368	347	470	354
Nitrate of soda ..	6,963	11,714	14,102	11,219	14,430	7,505
Ammonium chloride ..	52	114	3	2	104	150
Ammonium sulphate ..	11,187	35,056	9,466	28,251	20,945	19,979
Ammonium nitrate ..	1,144	1,222	2,475	1,566	461	478
Other nitrogen fertilizers	72	260	386	17	2,121	10,885
New Zealand—						
Nitrate of potash ..	29	r 101	r 85	r 80	138	144
Nitrate of soda ..	3,103	5,863	5,113	2,911	2,995	—
Ammonium sulphate ..	4,583	r 5,666	r 4,491	r 5,188	5,341	5,832
Ammonium chloride ..	278	348	r 266	r 297	276	512
Ammonium nitrate ..	410	r 9,735	r 7,830	r 3,856	2,952	3,320
Anhydrous ammonia ..	40	r 51	r 86	r 66	54	67
Cyanamide ..	5,317	—	r 1	—	49	—
Fiji—						
Ammonium sulphate ..	5,368	n.a.	n.a.	n.a.	n.a.	n.a.

(a) Years ended March 31 following that stated. Excluding F.O.A. supplies.

(b) Including purchases on Government account. (c) Years ended June 30 of that stated.

IMPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
Irish Republic—						
Nitrate of soda ..	2,288	4,493	3,439	3,989	4,001	6,150
Ammonium sulphate ..	47,723	59,647	55,840	62,082	70,195	72,414
Anhydrous ammonia ..	57	56	63	68	95	100
Other nitrogen fertilizers	8,488	9,504	11,046	14,909	17,730	20,893
OTHER COUNTRIES						
Austria—						
Nitrate of lime ..	2,068	1,230	1,040	2,356	1,871	1,050
Nitrate of potash ..	341	381	274	252	264	279
Cyanamide ..	930	1,399	1,040	1,618	1,844	1,875
Ammonium chloride ..	24	12	20	21	14	<i>n.a.</i>
Belgium-Luxemburg						
E.U.—						
Nitrate of potash ..	1,102	1,741	1,651	1,731	1,962	2,053
Nitrate of soda ..	41,406	30,166	35,655	43,163	22,808	27,252
Nitrate of lime ..	863	820	1,455	1,713	1,309	9,010
Cyanamide ..	62	94	207	219	292	359
Ammonium sulphate ..	5,379	4,883	16,728	6,103	3,938	8,668
Ammonium chloride ..	2,449	2,294	1,797	2,021	1,359	2,213
Ammonium nitrate ..	1,856	1,290	9,515	5,004	15,876	32,216
Anhydrous ammonia ..	9,850	12,638	17,604	666	252	4
Czechoslovakia—						
Nitrogen fertilizers (a)	<i>n.a.</i>	<i>n.a.</i>	31,000	17,000	13,000	16,000
Denmark—						
Nitrate of potash ..	972	742	949	913	956	843
Nitrate of soda ..	25,633	18,335	26,179	26,168	8,918	16,379
Nitrate of lime ..	478,991	414,747	539,145	609,616	577,035	581,645
Ammonium sulphate ..	7,293	9,861	15,178	8,453	11,043	13,568
Ammonium chloride ..	636	550	914	730	575	864
Ammonium nitrate ..	25,063	7,648	24,497	10,759	12,326	6,970
Cyanamide ..	73	—	30	142	110	221
Finland—						
Nitrate of potash ..	99	132	43	114	115	249
Nitrate of soda ..	658	361	199	80	352	325
Nitrate of lime ..	28,588	35,874	48,198	19,144	29,393	39,621
Ammonium nitrate ..	38,771	18,331	3,780	3,161	4,534	3,855
Ammonium sulphate ..	31,154	31,710	55,681	56,945	50,254	32,098
Ammonium chloride ..	260	273	580	512	300	791
France—						
Nitrate of soda ..	138,665	102,819	88,644	92,847	99,229	69,216
Nitrate of lime, etc. ..	—	9,818	4,905	51	65	20
Ammonium sulphate ..	(b) 25,952	(b) 75,158	1,021	520	1,982	22,045
Ammonium nitrate ..	19,024	2,275	10,679	151	161	43
Ammonium chloride ..	1,402	1,995	2,552	1,768	2,093	1,859
Anhydrous ammonia ..	1,222	2,138	8,991	4,558	316	1,651
Cyanamide ..	—	1,022	16,600	13,881	14,781	7,346
Germany (Federal)—						
Nitrate of potash ..	157	207	304	79	186	331
Nitrate of soda ..	27,937	28,482	32,833	11,411	20,543	16,661
Greece—						
Nitrate of potash ..	179	188	126	52	132	<i>n.a.</i>
Nitrate of soda ..	44,626	7,166	2,184	776	17,675	6,593
Ammonium nitrate ..	12,172	20,330	33,591	15,984	86,688	96,386
Ammonium sulphate ..	82,294	75,624	60,103	142,929	202,264	141,028
Other nitrogen fertilizers	27,721	24,397	r 38,762	r 26,553	25,860	28,123
Hungary—						
Nitrogen fertilizers ..	71,288	27,836	31,932	166,940	163,635	175,273
Iceland—						
Nitrate of lime ..	5	20	20	25	44	—
Lime ammonium nitrate	13,385	—	—	—	—	8,857
Nitrophoska ..	1,292	2,297	492	1,033	1,230	1,526

(a) N content.

(b) May include some ammonium nitrate.

IMPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Italy—						
Nitrate of potash ..	1,034	807	874	886	638	964
Nitrate of soda ..	50,586	44,469	42,276	44,507	45,933	32,202
Nitrate of lime ..	—	—	—	3,789	6,552	—
Ammonium chloride ..	1,065	1,022	854	347	766	489
Ammonium nitrate ..	2,379	2	156	3,437	3,448	3,284
Ammonium sulphate ..	1,506	2	984	615	3,248	1,586
Cyanamide ..	—	—	—	—	15	1
Netherlands—						
Nitrate of potash ..	1,461	1,718	2,400	1,827	1,470	1,755
Nitrate of soda ..	38,267	28,836	17,240	11,457	36,267	32,768
Nitrate of lime ..	39	31	—	—	—	1
Ammonium sulphate ..	7,876	3,169	12,119	265	1,045	83
Ammonium chloride ..	1,207	1,603	1,009	1,077	1,254	1,463
Ammonium nitrate ..	2	1	1,674	7,390	9,707	20,212
Ammonium phosphates ..	52	42	5,886	5,644	10,563	6,515
Lime ammonium nitrate ..	115,040	33,442	20,310	48,834	6,478	16,619
Cyanamide ..	5,313	2,404	1,169	6,447	3,062	4,404
Anhydrous ammonia ..	—	—	—	7,855	1,139	9,968
Other nitrogen fertilizers ..	8,512	9,753	8,176	5,279	22,950	17,051
Norway—						
Nitrate of potash ..	199	104	194	258	155	146
Ammonium sulphate ..	145	196	—	246	246	319
Anhydrous ammonia ..	2	1	8,798	48,883	19,380	27,400
Portugal—						
Nitrate of potash ..	353	316	391	309	415	377
Nitrate of soda ..	38,364	23,093	22,169	3,118	17,145	14,529
Nitrate of lime ..	2,669	3,291	1,304	12,018	14,886	11,318
Ammonium sulphate ..	138,515	57,297	44,667	122,420	84,999	39,551
Ammonium chloride ..	60	110	105	120	133	101
Ammonium nitrate ..	2,747	2,458	3,527	3,182	4,003	13,009
Cyanamide ..	6,011	7,297	1,264	1,947	486	974
Lime ammonium nitrate ..	37,507	33,076	45,129	49,086	68,794	67,756
Nitrophoska ..	3,489	3,435	3,881	7,130	6,625	10,443
Anhydrous ammonia ..	289	150	124	106	85	84
Spain—						
Nitrate of soda ..	151,953	99,041	155,415	103,714	158,308	144,268
Ammonium sulphate ..	201,095	340,346	348,636	347,836	455,143	710,688
Synthetic nitrates ..	81,947	130,533	149,512	133,050	173,492	266,449
Sweden—						
Nitrate of potash ..	700	776	924	839	801	838
Nitrate of soda ..	36,226	53,653	25,146	42,076	29,050	31,446
Nitrate of lime ..	294,364	264,572	324,503	334,302	309,142	332,304
Ammonium nitrate ..	106	175	1,478	571	1,143	168
Ammonium sulphate ..	2,204	3,967	9,503	11,064	12,213	12,235
Ammonium chloride ..	1,135	965	892	878	1,002	1,093
Cyanamide ..	—	—	—	—	5	—
Switzerland—						
Nitrate of potash, crude ..	1	295	16	—	169	1,101
Nitrates of potash and soda, purified ..	475	697	811	641	769	934
Ammonium sulphate, etc. ..	542	49	35	96	328	452
Ammonium chloride ..	606	814	702	640	630	689
Yugoslavia—						
Nitrate of potash ..	1,080	—	39	—	10	—
Nitrate of soda ..	10,521	9,693	21,076	—	—	9,842
Ammonium sulphate ..	8	—	—	—	34,095	—
Ammonium nitrate ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	10,067	1,120
Lime ammonium nitrate ..	76,105	113,573	159,250	275,121	356,017	348,888

IMPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Algeria—						
Nitrate of potash ..	21	11	377	181	241	244
Nitrate of soda ..	909	1,224	842	1,358	1,619	1,307
Nitrate of lime ..	4,680	4,108	3,035	4,181	5,812	3,410
Ammonium chloride ..	1,028	959	539	438	212	7
Ammonium sulphate ..	20,619	23,444	12,644	18,635	21,956	21,495
Ammonium nitrate ..	5,035	5,510	11,852	17,142	26,074	24,980
Cyanamide ..	430	138	203	39	113	88
Angola—						
Ammonium sulphate ..	1,835	3,091	2,225	2,953	9,922	4,549
Belgian Congo—						
Ammonium chloride ..	<i>n.a.</i>	16	61	72	85	17
Nitrogen fertilizers ..	2,481	2,716	3,224	4,509	4,186	3,695
Cameroon (French)—						
Nitrogen fertilizers ..	<i>n.a.</i>	1,117	2,358	3,048	4,220	6,678
Canary Islands—						
Ammonium sulphate ..	38,014	50,913	46,229	49,602	58,506	67,356
Synthetic nitrates ..	3,601	295	1,968	2,463	6,935	11,297
Egypt—						
Nitrate of soda ..	96,288	35,382	89,530	43,354	57,492	49,368
Nitrate of lime ..	186,218	165,481	7,012	11,478	10,051	11,124
Ammonium sulphate ..	81,531	83,421	91,081	151,582	159,867	147,513
Ammonium chloride ..	565	539	505	661	1,364	308
Ammonium nitrate ..	125,667	127,835	182,771	360,833	440,892	127,880
Ammonium sulpho- nitrate ..	23,040	31,494	9,596	40,071	30,514	1,968
Malagasy Republic—						
Nitrogen fertilizers ..	2,314	1,824	2,740	3,151	3,386	1,808
Morocco—						
Nitrate of potash ..	324	405	17	9	111	21
Nitrate of soda ..	225	275	245	583	640	483
Nitrate of lime ..	2,029	1,722	855	1,010	1,154	1,125
Ammonium nitrate ..	1,690	987	6,328	6,352	12,450	11,579
Ammonium sulphate ..	15,527	19,869	7,883	7,358	12,130	13,725
Reunion—						
Ammonium sulphate ..	7,374	6,004	8,019	8,261	7,712	8,340
Sudan—						
Synthetic nitrate of soda, calcium and ammonia ..	18,426	13,180	4,164	8,525	10,226	11,797
Other nitrogen fertilizers	7	14,253	18,695	28,559	24,742	21,824
Tunisia—						
Nitrate of potash ..	19	148	22	79	98	<i>n.a.</i>
Nitrate of soda ..	171	265	744	541	258	} 10,366
Nitrate of lime, etc. ..	221	216	—	39	186	
Ammonium nitrate ..	10	217	1,051	3,876	8,053	
Ammonium sulphate, etc.	2,771	2,476	1,109	1,644	2,708	
Costa Rica—						
Nitrogen fertilizers ..	<i>n.a.</i>	9,093	10,076	12,504	13,634	19,796
Cuba—						
Nitrate of potash ..	3,883	5,357	16,205	10,304	7,972	<i>n.a.</i>
Nitrate of soda ..	2,481	4,990	5,459	5,862	2,319	<i>n.a.</i>
Ammonium nitrate ..	65	63	164	211	190	<i>n.a.</i>
Ammonium sulphate ..	21,763	28,712	38,265	57,503	52,349	<i>n.a.</i>
Anhydrous ammonia ..	97	356	3,608	12,127	6,420	<i>n.a.</i>
Dominican Republic—						
Ammonium sulphate ..	3,897	7,419	7,901	21,385	13,387	38,332
Honduras—						
Nitrogen fertilizers ..	<i>n.a.</i>	7,749	15,318	14,055	12,315	14,561
Mexico—						
Nitrate of soda ..	15,119	9,532	10,462	14,433	9,698	15,261
Ammonium chloride ..	<i>n.a.</i>	<i>n.a.</i>	795	535	596	515
Ammonium sulphate ..	8,108	41,202	34,306	8,094	9,194	24,510

IMPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
Mexico (cont.)—						
Ammonium nitrate ..	10,121	24,528	34,120	33,118	41,372	25,932
Anhydrous ammonia ..	n.a.	n.a.	15,741	16,028	26,038	39,043
Nicaragua—						
Nitrate of soda ..	422	658	144	—	494	397
Other nitrogen fertilizers	n.a.	116	544	781	1,566	1,421
United States—						
Nitrates of potash and soda, crude ..	11,811	17,232	17,367	22,672	20,989	32,534
Nitrate of potash ..	1,428	2,089	2,114	2,011	2,314	2,080
Nitrate of soda ..	653,152	548,380	446,439	522,272	398,304	412,290
Nitrate of lime ..	61,283	50,323	58,296	53,621	78,970	61,472
Ammonium sulphate ..	272,332	154,570	176,473	147,079	166,858	194,172
Ammonium chloride ..	1,560	1,694	2,330	2,234	2,781	4,088
Ammonium nitrate ..	468,695	361,827	390,696	315,004	299,358	304,497
Ammonium phosphates	146,547	209,396	170,155	151,313	141,716	192,630
Cyanamide ..	75,188	72,954	59,987	r 51,695	51,191	52,143
Argentina—						
Nitrate of potash ..	504	826	—	—	—	15
Nitrate of soda ..	20,405	27,576	20,859	23,765	41,194	30,367
Ammonium sulphate ..	10,889	11,517	13,405	21,807	19,397	18,650
Brazil—						
Nitrate of potash ..	2,055	869	1,345	909	494	602
Nitrate of soda ..	43,750	49,713	41,956	49,746	50,092	48,237
Nitrate of potash and soda ..	—	20,761	15,815	11,379	—	7,690
Ammonium chloride ..	1,099	625	691	502	1,088	763
Ammonium nitrate ..	10,439	11,850	8,341	14,499	18,211	13,916
Ammonium sulphate ..	23,215	28,237	47,156	55,153	88,357	84,724
Cyanamide ..	71	181	58	139	253	31
Other nitrogen fertilizers	2,998	2,073	7,082	4,591	14,961	9,462
Chile—						
Ammonium chloride ..	281	464	395	315	n.a.	n.a.
Ammonium sulphate ..	480	511	111	115	n.a.	n.a.
Ammonium nitrate ..	1,116	3,381	4,406	3,342	2,497	7,113
Anhydrous ammonia ..	51	85	36	192	n.a.	n.a.
Colombia—						
Nitrate of potash ..	273	326	304	267	283	222
Nitrate of soda ..	1,857	335	611	394	143	—
Ammonium chloride ..	113	99	218	246	145	354
Ammonium sulphate ..	3,472	4,791	5,996	2,987	4,871	1,166
Other nitrogen fertilizers	10,198	7,819	12,638	28,410	15,216	10,186
Anhydrous ammonia ..	83	135	104	140	133	95
Ecuador—						
Nitrogen fertilizers	2,302	2,222	2,115	5,203	3,343	5,814
Peru—						
Nitrate of potash ..	55	52	58	66	71	78
Nitrate of soda ..	6,710	16,852	9,382	15,334	14,760	9,507
Anhydrous ammonia ..	171	173	167	194	181	195
Other nitrogen fertilizers	20,921	20,642	18,462	43,766	65,706	84,738
Uruguay—						
Nitrate of potash ..	n.a.	n.a.	n.a.	595	914	2
Nitrate of soda ..	n.a.	n.a.	n.a.	907	2,084	504
Ammonium sulphate ..	n.a.	n.a.	n.a.	10,133	8,974	4,194
Venezuela—						
Nitrate of potash ..	289	r 424	330	126	51	n.a.
Nitrate of soda ..	568	r 736	771	362	545	n.a.
Ammonium sulphate ..	3,399	r 6,848	6,765	17,645	14,880	n.a.
Cyanamide ..	81	r 615	855	—	—	n.a.

IMPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Formosa—						
Nitrate of soda ..	1,244	768	1,263	913	545	483
Ammonium sulphate ..	286,283	252,638	247,046	180,625	418,679	477,107
Other nitrogen fertilizers	544	492	984	1,230	6,070	5,138
Indo-China—						
Ammonium phosphate	907	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ammonium sulphate ..	13,113	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Indonesia—						
Nitrate of potash ..	17	101	244	199	142	219
Nitrate of soda ..	294	398	220	163	202	—
Ammonium chloride ..	291	224	223	509	389	301
Ammonium sulphate ..	73,306	100,237	122,484	148,173	106,871	208,573
Anhydrous ammonia ..	1,255	1,686	1,386	1,333	809	1,124
Other nitrogen fertilizers	1,773	922	3,272	1,465	1,736	662
Israel—						
Ammonium sulphate ..	42,162	36,377	30,255	295	—	—
Nitrogen fertilizers ..	12,961	5,979	11,003	3,848	7,944	6,858
Japan—						
Nitrate of soda ..	8,883	7,759	9,246	11,909	13,578	15,831
Ammonium sulphate ..	—	—	101	536	—	—
Jordan—						
Nitrogen fertilizers ..	950	<i>n.a.</i>	2,036	488	1,275	1,811
Korea—						
Ammonium sulphate ..	(a) 154,445	63,700	26,481	8,431	471,998	391,960
Ammonium nitrate ..	(a) 18,634	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	32,434	22,613
Lebanon—						
Nitrogen fertilizers ..	20,309	20,939	27,574	25,191	22,337	26,158
Philippine Republic—						
Nitrate of potash ..	78	1,803	59	1,482	105	989
Nitrate of soda ..	2	—	33	—	—	—
Ammonium phosphate	23,706	13,487	11,247	39,840	2,781	24,365
Ammonium sulphate ..	23,880	49,304	32,302	50,241	19,643	95,269
Syria—						
Nitrogen fertilizers ..	11,628	20,364	16,116	13,877	24,198	19,824
Thailand—						
Nitrate of potash ..	<i>n.a.</i>	394	547	1,052	823	829
Ammonium chloride ..	<i>n.a.</i>	139	280	361	513	595
Ammonium sulphate ..	<i>n.a.</i>	3,463	15,185	21,108	17,351	22,321
Other nitrogen fertilizers	<i>n.a.</i>	14,041	195	1,007	2,158	433
Turkey—						
Nitrate of soda ..	1,477	125	2,988	1,588	440	5
Ammonium chloride ..	103	306	160	122	372	549
Ammonium sulphate ..	2	4	39,593	38,599	32,183	88,368
Ammonium nitrate ..	10	410	2,308	915	4,516	1,126

(a) Including "Civilian Relief in Korea" supplies.

PETROLEUM AND ALLIED PRODUCTS

PRODUCTION OF CRUDE PETROLEUM*

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Crude petroleum	59,100	53,600	66,100	82,000	79,900	82,700
Shale oil	99,600	96,700	77,600	71,100	63,400	60,500
Nigeria (b)	—	—	—	1,200	270,000	557,000
Union of South Africa—						
Shale oil (a)	34,613	36,337	36,798	24,850	23,948	26,125
Canada (b)	12,810,713	17,258,700	22,930,855	24,246,401	22,066,159	24,635,699
Trinidad (b)	3,375,618	3,556,544	4,132,681	4,866,278	5,336,437	5,845,542
Bahrain Islands (d)	1,456,600	1,489,100	1,478,400	1,593,000	2,004,000	2,199,000
British Borneo—						
Brunei	4,712,241	5,133,440	5,547,433	5,458,923	5,089,492	5,262,702
Sarawak	70,190	65,614	70,616	65,906	56,902	54,708
India	301,834	341,098	374,100	421,769	n.a.	n.a.
Pakistan	277,530	295,340	302,550	314,240	324,600	333,400
Kuwait (d)	46,969,415	53,894,068	54,117,349	56,375,946	69,117,138	68,437,498
Qatar (d)	4,704,423	5,361,779	5,783,812	6,504,814	8,091,813	7,866,650
New Zealand	979	814	1,000	838	784	771
TOTAL	74,872,900	87,583,100	94,919,300	100,027,000	112,900,000	115,800,000
OTHER COUNTRIES						
Albania	r 172,656	r 204,792	261,551	482,030	397,000	542,000
Austria	3,377,582	3,608,211	3,373,351	3,135,286	2,791,599	2,419,951
Bulgaria	5,000	148,000	242,892	280,000	218,000	189,000
Czechoslovakia	(c) 198,000	105,000	106,000	106,000	104,000	121,000
France	496,508	r 864,047	1,242,880	r 1,395,108	1,367,700	1,597,000
Germany (Federal)	2,624,000	3,097,000	3,451,000	3,897,000	4,362,000	5,022,000
Hungary	1,198,000	1,576,000	1,183,000	663,000	816,000	1,019,000
Italy	71,057	200,350	559,773	1,241,616	1,521,288	1,668,820
Netherlands	922,231	1,008,000	1,079,543	1,499,269	1,594,000	1,745,207
Poland	180,800	177,000	180,800	177,700	172,200	172,100
Roumania	9,587,244	10,388,782	10,747,993	11,003,713	11,157,266	11,257,000
U.S.S.R.	58,345,000	69,675,000	82,482,000	r96,793,000	111,417,000	127,510,000
Yugoslavia	212,856	253,143	289,041	389,313	454,855	583,128
Algeria	72,900	53,964	33,010	18,704	448,916	1,316,000
Angola	—	—	8,246	9,882	49,833	49,721
Egypt	1,938,978	1,792,640	r 1,725,000	r 2,325,000	3,116,000	3,050,000
French Equatorial Africa	—	—	—	r 170,500	497,000	741,433
Morocco	116,085	100,838	95,913	73,910	73,153	93,079
Cuba	14,000	50,000	69,000	56,000	45,000	9,000
Mexico (b)	11,782,000	12,591,900	12,802,000	12,496,000	13,338,000	13,576,000
United States (b)	317,121,600	340,332,600	358,531,900	358,479,600	335,481,600	352,683,600
Argentina	4,171,000	4,324,564	4,852,600	4,781,345	5,578,600	6,981,200
Bolivia	156,000	354,000	420,200	470,100	451,700	416,800
Brazil	133,517	271,993	r 545,991	r 1,357,134	2,545,552	3,027,000
Chile	222,700	331,000	455,000	556,000	715,000	824,000
Colombia (b)	5,631,059	5,593,046	6,215,631	6,442,880	6,605,735	7,543,451
Ecuador	419,524	479,883	455,676	425,093	409,718	368,000

*Excluding Natural Gasoline. See page 231.

(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, Trinidad 7.0, Burma 7.4, India 7.4, Pakistan 7.0, Cuba 7.5, Mexico 7.1, United States 7.3, Bolivia 7.6, Colombia 7.1, Ecuador 7.5, Venezuela 6.95, Indonesia 7.5.

(c) Estimated.

(d) British Protected State.

PRODUCTION OF CRUDE PETROLEUM (cont.)

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Peru	2,243,702	2,265,317	2,502,812	2,523,040	2,458,907	2,327,000
Venezuela	99,462,000	113,205,000	129,279,000	146,753,000	136,697,000	145,417,118
Burma	178,460	215,193	245,776	399,779	469,321	536,047
China (e)	776,000	950,000	1,140,000	1,440,000	2,220,000	3,400,000
Formosa	4,620	3,110	2,790	2,310	1,980	1,720
Indonesia	10,604,957	11,604,063	12,592,104	15,230,000	15,850,000	17,930,538
Iran	<i>a</i> 2,700,000	<i>b</i> 15,772,000	<i>b</i> 25,934,000	<i>b</i> 34,765,000	<i>b</i> 39,780,000	<i>b</i> 44,677,000
Iraq	30,146,447	33,149,233	30,820,078	21,558,279	35,128,861	41,080,000
Israel	—	—	27,000	57,000	100,439	120,000
Japan	<i>r</i> 293,000	<i>r</i> 301,000	<i>r</i> 303,000	<i>r</i> 314,000	359,000	397,000
Netherlands New Guinea (c)	491,200	477,954	357,632	326,486	262,782	241,106
Saudi Arabia	46,136,583	46,784,693	47,935,041	48,229,690	49,399,006	53,307,390
Turkey	58,000	175,774	300,789	293,430	322,700	367,000
Neutral Zone (d)	833,000	1,250,000	1,650,000	3,275,000	4,190,000	5,960,000
TOTAL	<i>r</i> 613,100,000	<i>r</i> 683,700,000	<i>r</i> 744,500,000	<i>r</i> 783,900,000	793,000,000	860,300,000
WORLD'S TOTAL	<i>r</i> 688,000,000	<i>r</i> 771,300,000	<i>r</i> 839,400,000	<i>r</i> 883,900,000	905,900,000	976,100,000

(a) Estimated.

(b) 1954 Oil Agreement Area only.

(c) Exports.

(d) Neutral Zone of Kuwait and Saudi Arabia.

(e) Including oil from shale and coal.

PRODUCTION OF NATURAL GASOLINE

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Canada	76,541	97,335	102,696	<i>r</i> 110,018	111,146	153,104
Trinidad (a)	32,991	31,093	29,295	<i>r</i> 30,100	26,196	24,694
Brunei	—	56,131	61,395	69,668	71,508	70,793
OTHER COUNTRIES						
Italy	56,728	55,898	61,705	64,894	63,923	58,956
Poland	20,000	20,100	19,200	18,300	18,100	18,100
Roumania	200,000	201,000	212,000	219,000	231,000	<i>n.a.</i>
Egypt	5,226	5,689	5,500	6,100	9,000	<i>n.a.</i>
Mexico	<i>r</i> 183,000	<i>r</i> 228,000	398,000	455,000	823,000	<i>n.a.</i>
United States	28,933,000	32,288,000	33,592,000	33,851,000	33,824,000	36,783,000
Argentina	9,351	8,280	8,857	9,018	10,000	<i>n.a.</i>
Colombia	127,035	148,069	147,034	142,788	144,322	90,967
Ecuador	18,295	19,664	19,410	18,849	18,033	<i>n.a.</i>
Peru	109,806	<i>r</i> 106,154	<i>r</i> 109,364	<i>r</i> 106,074	87,419	<i>n.a.</i>
Venezuela	359,000	404,000	430,000	436,515	503,629	525,202
Formosa	594	433	393	367	259	236
Japan	3,500	3,700	3,600	3,100	1,700	2,000
WORLD'S TOTAL (b)	<i>r</i> 30,100,000	<i>r</i> 33,674,000	<i>r</i> 35,200,000	<i>r</i> 35,000,000	35,900,000	39,000,000

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

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

PRODUCTION OF NATURAL GAS*

Million cubic feet

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Barbados	122	133	125	108	98	94
Canada	120,735	150,772	169,153	220,007	337,804	427,804
Trinidad	38,494	40,860	51,742	65,418	79,191	98,477
Brunei	2,404	2,713	2,890	2,671	2,609	2,694
Pakistan	—	1,376	10,441	15,349	19,308	22,365
New Zealand	5	5	8	7	5	5
OTHER COUNTRIES						
Austria	22,078	27,058	26,307	r 26,787	28,968	39,835
Czechoslovakia	6,064	6,106	9,687	27,260	44,000	n.a.
France	r 9,484	r 9,682	r 11,681	r 20,711	36,910	92,299
Germany (Federal)	5,303	10,905	16,281	r 16,378	16,588	19,377
Hungary	19,635	19,176	17,022	r 14,437	13,258	11,701
Italy	r 104,789	r 128,095	r 157,690	r 176,118	182,762	216,040
Netherlands	3,000	4,860	5,670	5,570	6,970	10,000
Poland	r 12,650	13,889	15,411	14,800	13,564	14,980
Roumania	130,665	r 140,278	154,464	163,605	179,233	204,203
U.S.S.R. (a)	265,249	317,162	r 426,144	656,250	991,780	1,336,000
Yugoslavia	3,183	1,946	2,424	1,466	1,627	1,765
Morocco	290	265	258	119	65	146
Tunisia	35	156	205	213	206	213
Mexico	r 97,430	r 123,000	r 125,200	r 164,000	211,900	328,837
United States	8,742,546	9,405,351	10,081,923	10,680,258	11,030,298	12,046,115
Argentina	34,767	37,389	r 40,533	r 49,945	58,400	n.a.
Bolivia	—	200	230	270	200	n.a.
Brazil	2,240	2,185	2,962	r 5,551	10,611	15,100
Colombia	19,247	r 19,030	r 21,900	22,400	28,000	n.a.
Peru	n.a.	35,694	n.a.	44,272	45,171	n.a.
Venezuela (b)	r 767,105	858,434	r 976,368	r 1,134,456	1,113,031	1,124,288
Burma	n.a.	n.a.	231	225	325	178
Formosa	1,026	1,007	1,056	1,105	981	930
Indonesia	56,343	67,948	72,825	76,560	73,600	79,415
Japan	4,979	5,492	6,244	8,604	12,992	17,896
Saudi Arabia	42	44	n.a.	n.a.	n.a.	n.a.

*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: 1954—191; 1955—221; 1956—244; 1957—291; 1958—334; 1959—477.

Shipments: 1954—190; 1955—236; 1956—267; 1957—310; 1958—352; 1959—375.

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

(b) Total production. The amounts actually utilized were as follows: 1954—209,572; 1955—n.a.; 1956—n.a.; 1957—n.a.; 1958—n.a.; 1959—492,033.

PRODUCTION OF ASPHALT ROCK

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
France	77,570	80,861	78,465	69,972	86,048	89,400
Germany (Federal) ..	136,139	125,331	112,356	96,141	<i>n.a.</i>	<i>n.a.</i>
Italy	338,168	375,612	383,586	327,740	277,548	399,623
Angola	19,465	17,022	18,587	21,181	34,175	27,500
Belgian Congo	226	—	—	—	—	<i>n.a.</i>
United States (a) ..	1,194,484	1,274,292	1,302,262	1,043,310	1,184,369	1,356,040
Philippine Republic ..	2,929	3,199	671	1,081	2,445	11,601
Syria	28,740	28,120	42,351	20,529	<i>n.a.</i>	<i>n.a.</i>

(a) Sales.

PRODUCTION OF NATURAL ASPHALT, ETC.

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Trinidad	142,101	136,729	141,127	135,930	133,042	145,418
OTHER COUNTRIES						
Spain	10,790	6,341	10,300	11,158	10,115	8,107
United States (a)—						
Gilsonite	67,806	73,948	79,467	185,450	283,286	338,716
Argentina—						
Grahamite ("Rafaelite")						
(b)	1,207	1,627	1,214	1,393	1,832	1,553
Impsonite	14,269	10,279	9,544	25,365	<i>n.a.</i>	<i>n.a.</i>
Iraq	<i>n.a.</i>	12,710	<i>n.a.</i>	91,731	<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	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Great Britain	1,356,218	1,336,093	1,053,835	902,062	740,974	708,476
Union of South Africa (a)	257,407	274,459	256,942	<i>n.a.</i>	145,486	134,706
OTHER COUNTRIES						
Austria	1,038	841	707	694	320	224
France	243,976	214,360	143,869	40,538	2,552	2,903
Spain	234,071	486,669	588,337	728,231	760,908	831,043
Sweden (b)	1,793,034	1,829,070	1,823,214	1,844,214	1,774,245	<i>n.a.</i>

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

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

(b) Alum shale.

PRODUCTION OF PETROLEUM REFINERY PRODUCTS IN CERTAIN COUNTRIES*

Long tons

Producing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom (a)—						
Aviation and motor spirit	7,221,100	7,220,000	7,215,000	5,693,000	6,751,000	7,531,000
Other spirit	279,700	295,000	253,000	236,000	144,000	141,000
Kerosine	738,400	780,000	859,000	839,000	1,292,000	1,772,000
Gas oil and diesel oil ..	4,124,500	4,474,000	5,062,000	4,850,000	6,285,000	7,241,000
Fuel oil	11,939,000	10,776,000	10,931,000	10,611,000	12,572,000	15,599,000
Fuel used in refineries ..	1,830,000	2,055,000	2,122,000	2,073,000	2,503,000	3,032,000
Lubricating oil	582,100	693,000	773,000	732,000	751,000	863,000
Bitumen	819,200	862,000	933,000	841,000	860,000	961,000
Paraffin wax	29,000	18,000	24,000	31,000	30,000	31,000
Union of South Africa—						
Motor spirit	r 247,000	r 335,000	r 379,000	r 417,000	483,000	n.a.
Kerosine	r 17,000	45,300	r 46,000	r 55,000	53,000	n.a.
Gas and diesel oil	r 68,000	r 125,000	r 144,000	r 288,000	349,000	n.a.
Fuel oil	r 64,000	r 94,000	r 92,000	r 337,000	320,000	n.a.
Lubricating oil	—	5,000	12,000	27,000	22,000	n.a.
Canada (b)—						
Aviation spirit	54,866	81,745	84,313	65,916	56,688	55,158
Motor spirit	7,864,749	8,798,664	9,851,289	9,902,237	9,883,168	10,947,289
Naphtha	99,285	106,714	83,752	111,114	139,646	157,600
Kerosine	1,249,089	1,387,450	1,421,749	} 1,331,965	1,606,601	1,771,633
do. Power	20,391	20,815	50,311			
Aviation turbine fuel ..	208,309	334,841	510,748	609,645	544,769	535,093
Gas oil, etc.	3,219,710	3,886,616	5,185,863	5,192,768	5,210,764	6,284,988
Diesel oil	1,681,259	2,106,145	2,886,560	3,547,553	3,101,204	3,787,358
Fuel oil	4,404,750	4,963,500	6,144,804	5,847,852	} 6,103,945	6,743,127
do. (used in refineries)	847,022	855,719	998,908	1,043,656		
Lubricating oil	221,550	215,970	} 296,492	296,855	262,846	269,851
Grease	11,427	12,488				
Coke	211,506	240,981	241,879	244,014	403,200	468,958
Asphalt	929,955	1,151,127	1,344,347	1,305,098	1,429,999	1,494,078
Trinidad—						
Aviation spirit	193,353	215,859	256,784	335,771	382,456	441,238
Motor spirit	840,059	906,072	954,535	1,027,572	1,238,575	1,297,949
White spirit	224	160	4,586	3,949	7,180	7,657
Kerosine	79,538	107,522	98,140	126,089	136,168	142,954
do. Power	379,076	276,669	272,257	290,479	257,785	212,911
Gas and diesel oil	781,593	1,023,315	1,234,118	r 1,454,500	1,709,132	1,809,615
Fuel oil	2,472,515	2,687,419	3,035,120	3,377,904	3,906,347	5,374,073
Lubricating oil and greases	390	392	402	569	338	340
Bitumen	129,615	67,064	48,116	56,990	39,105	40,600
Other finished products	86,634	78,267	148,960	125,350	541,480	180,003
Aden—						
Motor spirit	—	634,636	682,725	668,989	606,416	597,590
Kerosine	—	355,512	295,376	284,564	309,748	395,489
Fuel oils	—	3,054,878	3,386,366	3,111,110	2,688,366	2,951,510
Bahrain Islands (c)—						
Motor spirit	2,253,400	2,219,300	1,973,600	1,636,000	2,032,000	1,983,000
Kerosine	1,058,800	777,100	715,400	560,000	657,000	716,000
Gas oil and diesel oil ..	1,863,800	1,950,600	1,841,600	1,928,000	2,029,000	2,097,000
Fuel oil	4,372,200	3,944,500	4,390,400	4,368,000	4,084,000	3,835,000
Bitumen	111,300	120,600	109,100	94,000	67,000	75,000

*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 products produced.

(a) Including distillation plants.

(b) Including the amounts used in the refineries. In the case of fuel oil these amounts are shown separately for the years 1954 to 1957.

(c) British Protected State.

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

Long tons

Producing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES (cont.)						
India—						
Motor and other spirits	57,000	343,000	443,000	426,000	n.a.	n.a.
Kerosine	69,100	255,000	274,000	313,000	n.a.	n.a.
Gas and diesel oils	47,200	280,000	378,000	408,000	n.a.	n.a.
Fuel oil	23,400	387,000	547,000	607,000	n.a.	n.a.
Lubricating oils	15,200	16,000	16,000	16,000	n.a.	n.a.
Bitumen	5,600	58,000	111,000	124,000	n.a.	n.a.
Other refined products	47,000	51,000	51,000	57,000	n.a.	n.a.
Kuwait (a)—						
Motor spirit	144,600	46,000	47,000	43,000	43,000	85,000
Kerosine	47,900	17,000	19,000	21,000	29,000	40,000
Gas and diesel oils	307,800	290,000	280,000	258,000	1,355,000	1,642,000
Fuel oil	1,260,400	872,000	860,000	816,000	3,432,000	4,025,000
Bitumen	4,000	11,000	14,000	14,000	21,000	22,000
Pakistan—						
Motor spirit	62,500	63,700	65,000	69,700	72,000	82,000
Kerosine	10,400	10,300	17,000	16,200	13,800	14,000
Diesel oil	46,400	54,000	58,000	61,000	67,000	69,000
Fuel oil	92,700	92,000	106,000	104,000	103,000	109,000
Lubricating oil	3,800	5,000	4,000	6,000	6,000	6,000
Bitumen	9,800	10,000	18,000	13,000	16,000	12,000
Sarawak—						
Motor spirit (b)	530,194	560,400	598,800	566,400	594,400	550,600
Kerosine, power	295	—	—	—	—	—
Gas, diesel and fuel oils	1,767,247	1,840,300	1,850,600	1,738,900	1,726,100	1,773,900
Australia—						
Aviation spirit	n.a.	n.a.	32,556	r 47,648	51,438	37,363
Motor spirit	799,200	1,493,700	2,407,125	r 2,833,009	3,223,322	3,247,875
Kerosine	1,300	n.a.	20,760	r 52,980	108,832	128,887
Aviation turbine fuel	n.a.	n.a.	73,705	r 118,705	121,797	197,660
Gas oil	60,053	286,943	} 1,648,000		1,709,146	2,120,394
Diesel oil	328,772	656,320	} 3,045,000		3,308,196	3,411,280
Fuel oil	573,883	2,143,617	3,045,000	r 3,308,196	3,411,280	3,625,431
Lubricating oil	28,817	67,421	35,070	r 34,136	31,718	31,102
Bitumen	138,086	161,500	200,893	209,844	237,366	274,399
Irish Republic—						
Motor spirit	—	—	—	—	—	111,000
Kerosine	—	—	—	—	—	6,000
Jet fuel	—	—	—	—	—	300
Gas and diesel oil	—	—	—	—	—	240,000
Fuel oil	—	—	—	—	—	245,000
OTHER COUNTRIES						
Albania—						
Motor spirit	5,618	4,269	6,428	20,991	n.a.	n.a.
Kerosine	1,140	5,435	6,069	2,580	n.a.	n.a.
Diesel oil	6,617	5,825	8,721	37,606	n.a.	n.a.
Austria—						
Motor spirit	n.a.	273,334	237,473	252,118	228,604	282,090
Kerosine	n.a.	171,051	45,352	30,613	21,696	33,010
Gas oil	n.a.	571,143	615,432	640,482	589,508	618,980
Fuel oil	n.a.	1,012,217	949,751	897,053	776,007	724,020
Lubricating oil	n.a.	57,718	56,608	63,989	54,612	63,950
Bitumen	n.a.	n.a.	33,530	54,330	62,350	64,910

(a) British Protected State.

(b) Including gasoline intended for enrichment of crude oil for export.

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

Long tons

Producing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Belgium—						
Motor spirit	822,000	949,000	1,160,000	1,125,000	1,329,000	1,324,000
Kerosine	133,400	164,100	204,500	200,600	232,100	306,200
Gas oil	886,000	1,146,000	1,382,000	1,228,000	1,551,000	1,602,000
Fuel oil	1,488,000	1,689,000	1,937,700	2,043,000	2,556,000	2,547,000
Lubricating oil	9,400	16,600	23,600	28,300	26,200	31,500
Asphalt, etc.	89,800	148,000	224,000	288,200	276,100	431,300
Bulgaria—						
Diesel oil	—	5,000	11,453	13,823	18,000	<i>n.a.</i>
Fuel oil	—	15,500	31,091	39,985	41,000	<i>n.a.</i>
Lubricating oil	7,400	8,000	15,386	18,034	<i>n.a.</i>	<i>n.a.</i>
Czechoslovakia—						
Motor spirit	<i>n.a.</i>	<i>n.a.</i>	355,000	369,000	330,000	<i>n.a.</i>
Kerosine	75,000	84,000	95,000	108,000	68,000	56,000
Diesel oil	363,000	395,000	483,000	644,000	798,000	966,000
Denmark—						
Gas and diesel oil	7,915	7,791	6,473	6,647	9,284	11,184
Lubricating oil	8,288	3,090	2,879	2,483	2,363	(<i>a</i>) 2,116
Grease	1,077	434	405	350	2,019	(<i>a</i>) 3,272
Asphalt	20,741	23,652	17,881	22,947	24,136	26,225
France—						
Motor spirit	5,171,000	5,029,000	5,376,000	5,285,000	5,745,000	6,126,000
Kerosine and white spirit	470,000	445,000	407,000	341,000	421,000	454,000
Gas and diesel oil	2,949,100	3,477,900	3,388,000	2,867,000	3,334,000	3,276,000
Fuel oil	10,521,000	11,016,000	12,170,000	11,339,000	14,517,000	14,533,000
Lubricating oil	479,900	531,000	584,000	560,000	555,000	588,000
Road oil and coke	985,000					
Paraffin wax	20,000					
		} 62,025,000 ^b	2,258,000	b 2,218,000	b 2,474,000	b 2,750,000
Germany (Federal)—						
Aviation spirit	197,200	241,576	309,979	360,269	428,068	594,408
Motor spirit	2,546,373	2,930,082	3,083,268	3,262,447	3,820,004	4,571,755
Kerosine	230,929	164,974	208,568	100,432	192,445	261,308
Diesel oil	2,281,487	2,891,967	3,177,783	3,153,364	3,760,695	4,387,843
Fuel oil	1,580,380	1,888,726	2,325,228	2,677,668	4,281,043	8,444,428
Lubricating oil	332,740	356,883	381,324	336,699	362,141	394,559
Grease	7,491	9,678	9,091	10,008	12,104	12,408
Paraffin wax	35,197	42,223	45,530	48,196	47,204	48,120
Coke	187,048	200,181	227,716	247,554	254,782	296,810
Bitumen	614,714	654,962	699,159	733,955	877,183	1,060,776
Greece—						
Motor spirit	—	—	—	—	—	167,000
Kerosine	—	—	—	—	—	104,000
Aviation turbine fuel	—	—	—	—	—	88,000
Diesel oil	—	—	—	—	—	427,000
Fuel oil	—	—	—	—	—	657,000
Asphalt	—	—	—	—	—	39,000
Hungary—						
Motor spirit	177,169	184,527	148,753	r 248,000	268,000	295,940
Kerosine	79,744	64,379	62,430	50,131	46,000	<i>n.a.</i>
Gas oil	337,862	349,909	328,260	453,557	520,000	<i>n.a.</i>
Fuel oil	480,000	643,000	502,000	589,000	671,000	821,482
Lubricating oil	33,000	33,000	34,000	43,000	31,000	<i>n.a.</i>
Italy—						
Motor spirit	2,764,368	2,675,339	3,049,293	3,032,293	3,398,000	3,910,171
White spirit	20,453	26,428	41,741	26,515	36,075	31,192
Kerosine	1,014,700	1,096,675	1,117,165	1,018,934	1,174,936	1,008,690
Gas oil	3,113,652	3,529,642	3,882,080	4,285,819	4,596,404	5,095,212
Fuel oil and diesel oil	7,130,317	7,651,255	8,373,727	9,469,454	11,711,608	12,852,565
Lubricating oil	129,389	145,598	164,901	147,182	151,624	150,956

 (*a*) Production in major establishments only.

 (*b*) Other products (other than butane and propane) which in 1954 amounted to 1,894,000 tons.

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

Long tons

Producing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Italy (cont.)—						
Coke	148	120	169	(a)	(a)	(a)
Bitumen	394,558	384,608	432,499	446,003	553,304	623,842
Other products	236,083	308,587	366,277	416,343	529,394	618,084
Netherlands—						
Motor spirit	2,319,000	2,340,000	2,327,000	2,691,000	2,818,000	2,567,000
Kerosine	626,000	720,000	729,000	492,000	1,200,000	1,278,000
Gas and diesel oil	2,712,000	2,629,000	2,648,000	3,132,000	3,311,000	3,381,000
Residual fuel oil	4,492,000	5,219,000	6,558,000	6,169,000	5,946,000	6,451,000
Lubricating oil	55,000	67,000	140,000	172,000	156,000	189,000
Bitumen	280,000	304,000	264,000	230,000	218,000	261,000
Poland—						
Motor spirit	r 44,000	52,700	52,200	69,700	77,000	n.a.
Kerosine	32,100	27,506	15,717	6,700	8,000	n.a.
Gas and diesel oil	128,800	131,800	142,500	168,600	194,000	200,600
Fuel oil	77,700	123,800	116,300	57,000	49,000	n.a.
Lubricating oil	r 120,000	r 125,000	r 133,000	r 158,000	143,000	n.a.
Portugal—						
Motor spirit	159,600	212,200	219,000	220,521	277,967	300,673
Kerosine	107,200	165,200	151,000	118,008	136,845	202,904
Jet fuel	n.a.	n.a.	n.a.	21,159	15,819	19,197
Gas and diesel oil	151,300	143,300	208,000	209,180	236,728	187,677
Fuel oil	292,500	315,300	328,000	362,425	399,792	412,071
Roumania—						
Motor spirit	2,398,652	2,593,451	2,706,198	2,756,076	2,775,993	2,655,000
Kerosine	1,198,232	1,340,362	1,364,086	1,412,583	1,505,298	1,259,000
Gas oil	1,322,229	1,600,259	1,611,231	1,734,778	1,778,820	2,241,000
Fuel oil	3,694,858	3,972,795	4,055,503	3,972,823	3,867,862	3,885,000
Bitumen	112,000	130,000	136,000	169,000	181,000	207,000
Spain—						
Motor spirit	386,249	378,224	420,072	376,741	787,000	603,000
Kerosine	40,579	50,444	48,536	118,808	231,000	263,000
Gas oil	304,350	408,746	444,730	567,883	806,000	855,000
Diesel oil	n.a.	n.a.	n.a.	56,802		
Fuel oil	879,977	981,259	1,069,795	1,582,070	1,981,000	1,943,000
Lubricating oil	n.a.	40,115	n.a.	36,000	37,000	36,000
Paraffin wax	106	48	n.a.	n.a.	n.a.	n.a.
Sweden—						
Motor spirit	221,601	221,537	185,300	r 243,371	224,439	211,000
White spirit etc.	8,223	9,704	11,389	9,467	7,635	n.a.
Kerosine	115,866	120,850	178,114	173,988	120,609	149,000
Fuel oil, etc.	1,392,597	1,522,443	1,424,497	r1,531,729	1,577,208	1,865,000
Lubricating oil	23,953	24,159	23,156	r 19,769	22,754	10,600
Asphalt	116,711	128,265	142,451	r 185,920	190,617	n.a.
Yugoslavia—						
Motor spirit	117,615	131,688	169,024	217,243	248,081	245,347
White spirit	5,313	7,857	6,325	8,481	6,827	7,932
Kerosine	61,296	74,257	81,138	72,096	60,665	62,301
Gas oil	158,437	171,125	199,074	247,570	293,337	326,224
Fuel oil	229,000	271,000	306,000	350,000	327,000	352,000
Lubricating oil	29,018	34,510	31,059	40,814	42,118	50,455
Bitumen	40,234	34,917	38,170	44,127	66,781	81,060
Other products	3,712	4,019	4,188	6,274	6,216	6,958
Angola—						
Motor spirit	—	—	—	—	9,000	9,000
Kerosine	—	—	—	—	1,000	1,000
Gas and diesel oil	—	—	—	—	9,000	15,000
Fuel oil	—	—	—	—	37,000	39,000
Canary Islands—						
Motor spirit	202,757	279,111	351,775	324,364	311,000	338,000
Kerosine	77,813	33,798	41,778	66,953	108,000	105,000
Gas oil	148,264	281,030	354,177	282,392	581,000	674,000
Diesel oil	144,106	164,988	142,860	176,393		

(a) Included with "other products".

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

Long tons

Producing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Canary Islands (<i>cont.</i>)—						
Fuel oil	546,161	674,546	850,467	940,270	1,366,000	1,329,000
Lubricating oil	9,185	12,275	<i>n.a.</i>	10,000	13,000	16,000
Asphalt	75,664	64,578	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Egypt—						
Motor spirit	222,425	254,720	258,000	284,000	326,000	<i>n.a.</i>
Kerosine	216,092	270,715	r 232,000	273,000	290,000	<i>n.a.</i>
Gas oil	73,573	156,877	} r 266,000	347,000	376,000	<i>n.a.</i>
Diesel oil	144,335	196,713				
Fuel oil	1,482,118	1,538,647	r 1,691,000	r 2,042,000	1,977,000	<i>n.a.</i>
Asphalt	49,195	85,138	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Morocco—						
Motor spirit	25,345	29,930	31,839	28,612	42,969	62,412
Kerosine	11,852	12,331	11,597	8,545	12,271	9,085
Gas and fuel oils	24,365	39,462	31,918	35,797	61,529	62,357
Cuba—						
Motor spirit	105,300	122,800	139,000	r 321,000	658,000	639,000
Kerosine	89,000	112,300	117,000	r 144,000	131,000	133,000
Gas oil and diesel oil	122,000	135,300	137,000	r 455,000	657,000	745,000
Fuel oil	59,400	66,600	84,000	r 861,000	1,857,000	1,760,000
Lubricating oil	3,600	11,100	11,000	r 10,000	—	—
Mexico—						
Aviation spirit	44,252	47,022	42,459	45,272	45,747	42,000
Motor spirit	r 1,875,677	r 1,953,919	r 2,016,668	r 2,461,392	r 2,562,559	3,069,000
Kerosine	r 872,536	r 904,622	r 998,266	r 1,038,589	1,267,747	1,438,000
Gas and diesel oil	r 667,220	r 666,548	r 824,744	r 1,163,984	1,473,299	1,508,000
Fuel oil	r 6,611,105	r 6,966,884	r 6,461,456	r 6,268,209	6,490,532	5,712,000
Lubricating oil	r 38,082	r 79,058	r 109,959	r 125,180	124,313	146,000
Grease	2,588	2,359	3,769	3,484	2,891	<i>n.a.</i>
Paraffin wax	r 9,845	r 22,863	31,530	36,342	39,947	<i>n.a.</i>
Asphalt	r 184,000	r 183,000	199,000	266,000	241,000	<i>n.a.</i>
Netherlands Antilles (a)—						
Aviation spirit	1,088,723	1,159,251	1,339,431	1,301,733	1,448,616	1,195,762
Motor spirit	4,164,594	3,245,143	2,623,820	2,438,893	3,471,890	2,492,642
Kerosine	1,947,719	1,528,038	1,342,086	1,229,122	1,229,209	1,535,172
Aviation turbine fuel	678,138	1,227,937	1,620,798	1,859,385	2,340,282	2,006,922
White spirit	150,753	136,661	54,215	46,386	54,092	100,112
Gas oil	2,556,367	2,822,938	2,556,587	2,744,541	3,991,875	3,216,223
Diesel oil	2,193,609	2,313,976	2,612,650	1,916,776	1,926,428	1,848,607
Fuel oil	21,331,257	23,154,116	24,999,904	22,928,528	18,805,434	19,766,415
Lubricating oil	548,009	635,615	688,656	602,087	617,446	648,592
Asphalt	582,145	702,881	617,596	683,698	746,627	861,786
United States—						
Aviation spirit	10,541,000	11,490,000	12,313,000	12,481,000	13,131,000	13,739,000
Motor spirit	133,853,000	145,800,000	151,245,000	152,143,000	151,131,000	156,572,000
Kerosine	15,566,000	14,908,000	15,716,000	13,864,000	14,001,000	14,084,000
Jet fuels	5,925,000	7,210,000	8,456,000	8,059,000	9,377,000	11,828,000
Distillate fuel oil	73,579,000	81,757,000	90,324,000	90,715,000	85,672,000	92,122,000
Residual fuel oil	60,777,000	61,298,000	62,227,000	60,616,000	52,990,000	50,735,000
Lubricating oil	7,454,000	7,817,000	8,290,000	7,801,000	7,182,000	7,856,000
Paraffin wax	661,500	661,600	670,900	682,600	656,500	703,800
Coke	4,336,400	5,060,200	5,552,700	5,976,100	6,751,400	7,342,300
Asphalt	12,161,000	13,494,000	14,714,000	13,910,000	14,510,000	15,851,000
Road oil	1,147,500	1,349,400	1,277,000	1,147,000	943,000	1,033,000
Argentina—						
Aviation spirit	6,400	7,000	31,800	41,400	} 1,900,000	{ 47,000
Motor spirit	1,493,000	1,631,000	1,541,000	1,745,800		
Kerosine	806,000	834,000	909,455	1,099,300	1,098,000	1,182,000
Gas oil	393,000	404,000	406,591	444,000	} 1,779,000	1,629,000
Diesel oil	590,000	745,000	934,600	1,078,000		
Fuel oil	3,356,000	3,586,000	3,432,000	4,906,800	5,244,000	5,283,000
Lubricating oil	103,000	106,000	130,600	135,300	165,000	121,000

(a) Exports.

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

Long tons

Producing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Bolivia—						
Motor spirit	103,568	105,105	133,207	118,844	270,733	98,608
Kerosine	19,837	18,544	33,651	36,088	43,974	44,245
Diesel oil	30,327	31,362	49,636	55,200	36,578	39,602
Fuel oil	80,488	108,876	134,271	107,245	106,290	91,222
Brazil—						
Motor spirit	102,700	1,293,300	2,058,100	2,065,090	2,151,000	2,258,000
Kerosine	18,100	12,000	28,700	169,270	247,000	314,000
Diesel oil	45,100	292,300	393,800	649,350	834,000	903,000
Fuel oil	131,500	1,503,000	2,270,000	2,512,400	2,719,000	3,093,000
Lubricating oil	—	—	—	550	—	—
Chile—						
Motor spirit	29,200	207,800	339,800	364,500	405,000	452,000
Kerosine	8,700	15,000	19,200	27,900	53,100	92,000
Gas and diesel oil	29,100	98,100	167,200	193,800	211,500	239,000
Fuel oil	4,500	241,800	312,300	298,600	347,900	244,000
Colombia—						
Aviation spirit	5,413	22,340	34,721	34,533	46,329	50,804
Motor spirit	315,833	542,483	552,373	645,212	(a) 845,469	(a) 923,511
Other spirit	8,700	10,000	10,900	12,300	12,400	14,900
Kerosine	53,046	124,026	144,999	160,636	190,042	203,598
do. Power	20,316	19,659	11,184	20,914	9,926	6,532
Diesel oil	135,479	199,048	272,788	344,862	380,729	425,655
Fuel oil	914,169	805,357	791,447	1,050,945	1,389,819	1,367,658
Lubricating oil and grease	8,587	9,109	8,219	9,759	11,497	14,227
Coke	11,538	33,325	44,611	54,523	88,638	99,485
Asphalt	47,061	54,107	65,599	50,638	50,692	46,333
Ecuador—						
Motor spirit	74,895	76,174	78,289	73,771	84,000	102,000
Kerosine	23,484	25,000	27,338	28,000	29,415	32,000
Gas and diesel oils	46,708	46,376	48,809	48,710	57,284	87,000
Residual fuel oil	104,625	112,938	109,500	117,346	124,375	109,000
Peru—						
Motor spirit	538,923	545,410	563,258	571,920	578,465	538,000
Kerosine	288,420	322,764	350,818	377,499	392,237	408,000
Aviation turbine fuel	—	—	—	9,027	7,520	8,000
Diesel oil	351,394	540,830	718,233	674,236	680,103	670,000
Fuel oil	682,471	456,866	340,889	372,301	376,219	337,000
Lubricating oil and grease	9,808	10,134	10,823	7,911	12,002	9,000
Coke	243	529	132	11	396	n.a.
Asphalt	27,434	29,649	38,102	20,939	14,484	n.a.
Uruguay—						
Motor spirit	222,756	252,861	232,379	247,028	237,242	226,254
Kerosine	146,086	109,450	144,016	160,582	156,620	167,797
Aviation turbine fuel	—	—	—	—	2,437	4,887
Gas oil	100,508	115,861	81,793	86,362	86,043	69,990
Diesel oil	53,336	47,088	37,396	26,989	45,353	48,508
Fuel oil	647,726	560,532	515,011	519,119	537,627	567,980
Lubricating oil	—	—	—	504	622	808
Asphalt	—	—	—	15,000	10,600	10,200
Venezuela—						
Motor spirit	2,543,974	2,974,373	3,223,827	3,891,035	4,435,377	4,392,500
Kerosine	708,295	959,911	825,836	1,111,262	1,435,177	1,404,406
Gas oil	1,366,145	2,177,662	2,156,828	} 6,500,068	} 6,628,167	} 2,148,473
Diesel oil	3,018,100	3,611,511	4,031,926			
Fuel oil	13,339,663	15,115,892	18,198,576	19,863,677	20,751,026	24,058,382
Lubricating oil	140,000	141,356	166,813	157,989	179,345	164,384
Asphalt	102,000	157,000	295,000	590,000	1,082,000	890,000

(a) Including naphtha.

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

Long tons

Producing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Burma—						
Motor spirit	34,121	36,282	37,428	93,453	123,100	132,310
Kerosine	29,266	30,601	34,693	59,359	81,649	61,375
Jet fuel	—	—	—	154	3,327	6,770
Diesel oil	33,522	36,855	37,642	59,924	85,777	96,410
Fuel oil	40,187	40,261	42,783	73,144	59,631	77,279
Paraffin wax	6,266	8,406	8,486	9,903	10,660	11,988
Coke	—	—	—	5,593	10,085	<i>n.a.</i>
Formosa—						
Aviation spirit	—	—	—	—	—	5,207
Motor spirit	98,279	121,670	116,961	134,179	145,063	166,239
Kerosine	32,353	30,617	25,708	26,440	28,530	32,482
Jet fuel	38,083	60,354	107,550	86,753	110,834	128,274
Diesel oil	71,793	93,561	93,219	114,041	130,411	151,470
Fuel oil	168,805	274,280	306,594	257,331	269,001	332,018
Asphalt	17,523	12,222	25,227	35,542	35,615	42,256
Indonesia—						
Aviation spirit	293,245	286,638	267,589	255,980	211,845	167,569
Motor spirit	2,133,418	2,244,876	2,134,280	2,108,884	2,082,513	2,194,597
White spirit	<i>n.a.</i>	<i>n.a.</i>	76,693	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Kerosine	1,419,838	1,612,315	1,628,842	1,661,775	1,551,079	1,614,317
Fuel, gas, diesel and lubricating oils	5,749,078	5,905,991	5,976,321	6,620,839	6,048,902	6,726,997
Paraffin wax	116,970	120,020	103,901	91,430	88,663	100,197
Asphalt	33,868	33,570	34,845	40,811	29,368	28,894
Other products	500,808	504,565	526,267	593,868	626,318	787,955
Iran (a)—						
Aviation spirit	<i>n.a.</i>	43,000	300,000	484,000	498,000	503,000
Motor spirit	<i>n.a.</i>	1,090,000	1,740,000	2,015,000	2,090,000	2,048,000
Kerosine	<i>n.a.</i>	1,186,000	1,702,000	2,219,000	2,277,000	2,085,000
Aviation turbine fuel	—	—	—	—	—	441,000
Gas and diesel oils	<i>n.a.</i>	985,000	1,808,000	2,514,000	2,641,000	2,964,000
Fuel oil	<i>n.a.</i>	3,303,000	4,511,000	6,592,000	6,015,000	6,136,000
Lubricating oil	<i>n.a.</i>	11,000	11,000	14,000	13,000	15,000
Bitumen	<i>n.a.</i>	64,000	213,000	194,000	185,000	254,000
Iraq—						
Motor spirit	84,700	138,501	r 189,000	r(c) 211,000	243,000	(c) 250,000
Kerosine	107,400	157,640	r 234,000	r(c) 220,000	268,000	(c) 241,000
Gas oil	47,700	88,180	} r 980,000	r 1,081,000	1,106,000	(c) 1,052,000
Diesel and fuel oils	242,800	578,862				
Israel—						
Motor spirit	164,200	187,000	195,000	162,000	180,000	180,945
Kerosine	135,300	137,000	126,000	135,000	175,000	173,744
Gas and diesel oils	175,200	217,000	185,000	223,000	256,000	299,692
Fuel oil	349,800	348,000	334,000	383,000	416,000	514,328
Bitumen	21,500	21,000	20,000	29,000	30,000	<i>n.a.</i>
Japan—						
Motor spirit	1,448,661	1,775,295	2,189,277	2,721,725	3,004,150	3,680,401
Kerosine (b)	411,236	473,683	728,797	975,123	1,042,487	1,464,116
Gas oil	561,088	623,726	750,077	847,389	1,037,739	1,419,862
Diesel oil	523,383	540,111	654,715	541,799	874,629	1,069,930
Fuel oil	2,715,383	3,164,446	4,784,954	6,133,664	6,343,181	8,959,412
Lubricating oil	300,240	321,298	394,058	443,571	404,262	465,999
Paraffin wax	19,635	23,872	34,488	34,747	36,290	39,703
Pitch	9,562	4,345	—	—	—	—
Asphalt	159,361	176,837	205,361	269,075	293,722	414,088
Lebanon—						
Motor spirit	129,342	155,884	176,178	176,000	115,795	112,993
Kerosine	48,707	81,415	93,356	105,000	76,050	64,396

(a) Abadan Refinery only.

(b) Including jet fuel.

(c) Estimated.

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

Long tons

Producing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Lebanon (<i>cont.</i>)—						
Gas oil	82,253	165,064	205,207	238,000	166,969	161,836
Diesel oil	—	12,676	4,580	—	—	—
Fuel oil	233,514	429,545	448,205	479,000	370,989	379,085
Philippine Republic—						
Motor spirit	47,000	240,000	313,000	325,000	386,000	384,000
Kerosine	12,000	48,000	59,000	64,000	73,000	80,000
Gas and diesel oil	25,000	122,000	189,000	200,000	232,000	236,000
Fuel oil	49,000	177,000	182,000	249,000	420,000	411,000
Saudi Arabia—						
Motor spirit	1,457,063	1,272,883	1,247,673	1,021,997	859,673	(a) 935,000
Kerosine (b)	1,080,510	977,269	770,152	898,503	1,078,694	1,018,608
Diesel oil	2,411,195	2,075,023	2,058,911	1,499,077	2,004,878	1,441,801
Fuel oil	5,277,424	5,162,720	5,163,093	5,543,806	3,728,127	4,614,498
Asphalt, etc.	43,856	33,372	38,957	50,745	50,930	51,841
Turkey—						
Motor spirit	800	3,800	51,400	61,676	63,000	77,000
Diesel oil	3,800	7,700	17,600	15,383	23,181	37,000
Fuel oil	—	51,400	163,300	154,930	165,531	178,000
Asphalt	7,334	16,109	38,632	35,653	42,746	<i>n.a.</i>

(a) Including aviation spirit.

(b) Including jet fuel.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS*

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Crude petroleum ..	24,312	61,256	61,954	r 14,353	4,189	121,266
Aviation spirit (bunkers) (a) ..	96,881	111,863	128,866	162,536	160,700	129,102
Aviation spirit ..		272,596	282,915	357,101	398,143	346,339
Aviation turbine fuel ..	1,457,555	106,163	205,505	181,059	460,779	577,167
Motor spirit ..		913,649	959,549	926,620	1,072,000	855,078
Other spirit ..	31,110	16,145	16,591	16,476	38,398	35,874
Kerosine, power do. other ..	218,221	45,465	42,449	74,672	65,348	54,900
Gas oil ..	940,957	154,281	163,467	140,839	210,323	292,018
Diesel oil ..	434,023	899,617	1,509,468	787,376	1,646,462	1,637,752
Fuel oil ..	4,129,012	399,545	461,140	388,310	488,675	445,398
do. (bunkers) (a) ..	3,867,479	2,843,214	3,229,733	r 2,775,298	3,159,670	2,956,371
Lubricating oil ..	248,014	4,125,987	4,492,791	3,520,974	3,887,573	4,146,422
Greases ..	17,492	342,699	410,022	r 375,923	392,779	448,286
Other refined oils ..	86,938	(c) 22,969	(c) 28,276	(c) 29,274	(c) 29,970	(c) 26,638
Other heavy oils ..		1,820	n.a.	n.a.	n.a.	n.a.
Mineral jelly ..	221	7,275	9,306	r 8,439	8,457	8,996
Paraffin wax ..	247	n.a.	n.a.	n.a.	n.a.	n.a.
Malta (bunkers) (b)—		1,293	3,570	6,495	7,040	8,245
Aviation spirit ..	25,847	30,258	35,061	24,752	21,943	14,669
Aviation turbine fuel ..	12,693	12,792	38,503	38,497	40,639	31,339
Gas oil ..	4,139	2,354	2,605	1,299	243	8,578
Fuel oil ..	11,262	2,407	1,838	792	—	475
Ghana (bunkers) (b)—						
Aviation spirit ..	3,093	2,648	4,649	3,837	3,617	—
Gas oil ..	1,428	203	379	2,156	3,577	4,119
Diesel oil ..	238	57	—	4,727	172	2
Fuel oil ..	18,046	16,635	16,082	5,928	10,801	8,705
Lubricating oil ..	175	47	30	1,074	64	19
Kenya (bunkers) (b)—						
Aviation spirit ..	10	—	12,316	10,052	9,475	9,527
Motor spirit ..	16	5	3	2	1	1
Gas, diesel and fuel oils ..	111,659	102,985	139,542	187,373	105,639	113,835
Lubricating oil ..	264	359	427	364	514	433
Mauritius (bunkers) (b)—						
Aviation spirit ..	1,160	980	986	1,084	1,896	1,866
Fuel oils ..	5,266	7,506	9,988	9,797	6,823	6,312
Nigeria—						
Crude petroleum ..	—	—	—	6	223,866	491,883
Diesel oil (bunkers) (b) ..	94	134	10	380	2,078	1,991
Gas oil do. (b) ..	1,206	1,256	977	1,044	136	1,304
Fuel oil do. (b) ..	6,141	11,115	7,537	6,666	6,225	4,361
Sierra Leone (bunkers) (b)—						
Aviation spirit ..	—	—	359	r 517	201	131
Fuel and diesel oils ..	11	46	57,865	r 245,178	214,722	219,985
Tanganyika (bunkers) (b)—						
Aviation spirit ..	—	—	1,240	610	414	831
Gas, diesel and fuel oils ..	661	58	84	13	6	832
Uganda (bunkers) (b)—						
Aviation spirit ..	—	—	2,788	3,631	3,213	2,002

*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 230).

(a) Including foreign produce.

(c) Including cable impregnating compounds.

(b) Foreign produce. See imports.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
<i>(cont.)</i>						
Union of South Africa—						
Motor spirit	9,151	12,343	19,823	19,348	41,976	27,943
do. (bunkers) (a) .. .	7,403	8,488	8,855	9,000	8,856	5,826
Diesel oil	15,653	49,058	40,896	47,395	35,068	70,504
do. (bunkers)	17,626	44,836	38,478	47,498	55,576	37,299
do. (bunkers) (a) .. .	92,615	59,093	111,454	162,195	53,541	25,006
Fuel oil	58,687	21,190	15,015	66	25,102	55,011
do. (bunkers)	67,039	182,866	286,493	213,470	231,728	199,923
do. (bunkers) (a) .. .	220,603	170,664	344,804	802,597	181,209	160,384
Asphalt and bitumen .. .	4,482	18,952	30,605	32,286	30,812	58,106
Canada—						
Crude petroleum	312,659	1,977,683	5,721,078	7,423,230	4,223,924	4,448,298
Motor spirit	50,384	41,750	88,635	138,185	19,260	62,043
Kerosine, etc.	13	21	116,053	137,454	23,952	21
Fuel oil	6,471	75,048	127,214	164,923	64,351	132,221
do. (bunkers)	966,169	1,116,691	1,191,096	1,334,707	1,076,598	n.a.
Diesel oil (bunkers) .. .	188,078	234,748	236,621	342,471	369,656	n.a.
Lubricating oil	167	229	485	1,759	2,021	948
Other oils	—	91	41	10	27	197
Mineral wax	625	81	105	146	136	159
Petroleum coke	40,759	53,773	31,369	38,462	27,481	44,152
Natural gas (<i>million cu.ft.</i>)	7,148	11,357	10,828	15,731	86,972	84,764
British Guiana (a)—						
Aviation spirit (bunkers)	269	339	347	345	365	489
British West Indies—						
Bermuda(bunkers)(a)(b)						
Aviation spirit	44,734	47,642	65,273	76,385	79,184	78,630
Motor spirit	603	629	559	968	720	2,479
Aviation turbine fuel .. .	1,791	946	1,198	16,591	32,314	37,448
Kerosine	547	405	532	533	352	361
Fuel oil	4,991	33,440	31,111	25,907	7,774	7,429
Diesel oil	3,085	2,013	2,954	3,057	1,872	3,413
Lubricating oil	563	571	796	974	1,036	518
Jamaica (bunkers) (a)—						
Aviation spirit	2,164	9,786	5,083	371	n.a.	25,889
Gas oil	1,957	4,755	r 463	576	n.a.	2,106
Diesel oil	13,868	13,578	14,568	25,656	n.a.	48,941
Fuel oil	68,531	123,268	56,163	80,407	n.a.	106,347
Trinidad and Tobago—						
Crude petroleum	426,563	399,878	540,803	r 461,171	406,919	458,246
Aviation spirit	180,403	201,471	271,304	358,321	371,445	443,841
do. (bunkers)	8,223	7,507	8,678	12,365	42,505	17,434
Motor spirit	758,568	766,236	943,021	870,379	1,311,969	1,257,237
do. (bunkers)	105	6,984	268	1,802	16,946	8,279
Kerosine—Power	381,275	286,479	352,654	345,665	358,071	222,631
do. (bunkers)	1,550	3,154	13	39	—	4,743
Kerosine—other	60,818	87,661	74,147	100,523	97,366	104,296
do. (bunkers)	296	248	398	218	171	132
Gas oil	274,904	463,273	585,988	737,067	926,188	1,233,693
do. (bunkers)	56,865	53,390	50,692	75,200	62,888	48,850
Diesel oil	165,531	337,294	408,827	322,438	389,121	179,945
do. (bunkers)	241,708	221,394	600,121	488,659	424,341	370,833
Fuel oil	1,454,165	1,613,586	3,085,198	1,915,735	2,876,254	3,895,728
do. (bunkers)	892,934	809,936	1,584,984	2,012,484	1,235,053	1,471,232
Lubricating oil	158	99	164	251	317	306
Road oil	17,798	22,404	21,443	84,252	23,024	29,220
Asphalt—						
Crude	—	27	43,500	—	1	—
Dried	51,035	49,722				41,258	44,435	48,414
Asphalt cement	22,587	13,107	10,759	12,705	11,129	12,317
Bituminous asphalt .. .	152,524	103,508	80,649	75,778	45,639	28,765

(a) Foreign produce. See imports.

(b) Including bunkers for military forces.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES (cont.)						
Falkland Islands— (bunkers) (a)—						
Fuel oil	11,550	11,693	8,737	4,497	6,921	27,135
Aden (g)—						
Aviation and motor spirits	4,952	666,929	684,352	653,421	620,810	587,845
Kerosine	378	427,091	317,181	273,231	310,411	412,196
Gas diesel, fuel oils	132,765	1,148,727	1,774,357	1,409,925	739,128	1,081,749
Fuel oil (bunkers)	2,900,551	3,090,063	2,514,938	2,101,173	3,408,253	3,280,542
Bahrain Islands (e)—						
Aviation spirit	24,000	15,700	20,400	21,000	8,000	10,000
Motor spirit	2,157,600	1,924,600	1,500,700	1,220,000	1,350,000	1,537,000
Aviation turbine fuel		259,600	386,400	306,000	485,000	304,000
Kerosine	1,028,600	742,800	685,500	536,000	619,000	728,000
Process oil	166,800	278,900	208,100	15,000	—	—
Diesel oil	1,576,300	1,683,900	1,612,600	1,740,000	1,480,000	1,919,000
do. (bunkers)	201,900	196,200	159,400	156,000	125,000	111,000
Fuel oil	3,742,200	3,352,200	3,692,300	3,602,000	3,122,000	3,247,000
do. (bunkers)	639,000	621,800	599,100	730,000	641,000	615,000
Asphalt	107,100	124,300	103,300	97,000	46,000	75,000
British Borneo—						
Brunei—						
Crude petroleum (b) ..	4,704,488	5,108,970	5,526,505	5,371,788	5,053,900	5,295,552
Natural gas (million cubic feet)	2,354	2,617	3,245	2,545	2,480	2,540
Sarawak—						
Crude petroleum (c) ..	2,892,768	3,182,883	3,439,401	3,545,722	3,157,045	3,238,040
Motor spirit (d)	33,168	133,258	288,985	202,679	225,000	334,002
Kerosine	194	64	37	6	15	15
Gas oil	8,507	55	—	48,991	60,541	43,981
Diesel oil	1,171,888	1,228,285	1,057,708	975,690	950,027	1,112,390
Fuel oil	421,668	452,539	636,487	560,134	510,326	469,381
do. (bunkers) (f) ..	134,358	127,787	148,732	140,792	174,156	157,075
Ceylon (bunkers) (a)—						
Aviation spirit	3,618	3,998	3,614	4,478	6,014	8,267
Gas oil	2,153	14,698	20,219	4,030	6,476	6,637
Diesel oil	68,922	60,938	79,572	76,915	48,644	39,974
Fuel oil	378,580	393,971	472,629	540,096	379,319	374,075
Cyprus (bunkers) (a)—						
Aviation spirit	6,477	5,492	5,696	2,855	2,273	2,583
Hong Kong—						
Motor spirit	955	1,195	1,691	868	959	3,827
Kerosine	2,268	2,661	3,139	2,212	1,446	1,855
Diesel oil and gas oil	4,154	5,546	6,192	5,538	6,558	8,669
Fuel oil	75	20	134	233	620	1,201
Lubricating oil	434	144	6,534	893	508	563
Greases	9	7	2	5	18	39
Petroleum jelly	74	19	114	194	164	86
Paraffin wax	38	43	138	316	344	107
Asphalt and bitumen ..	21	220	616	30	2,791	278
India—						
Aviation spirit (bunkers)						
Domestic produce	8	45	—	n.a.	n.a.	n.a.
Foreign produce	25,849	27,235	32,062	n.a.	n.a.	n.a.

(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) Domestic and foreign produce.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
<i>(cont.)</i>						
India— <i>(cont.)</i>						
Motor spirit	—	58,862	21,230	} 146,469	108,402	{ 61,581
Other spirit	81	90,896	61,540			
Diesel oil	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	14,858	122
Fuel oil	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	179,880	83,710	52,016
do. (bunkers)						
Domestic produce	—	4,388	348,265	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Foreign produce	237,296	280,420	693,699	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Paraffin wax	25,376	24,627	27,450	25,594	22,061	22,540
Kuwait (c)—						
Crude petroleum	45,483,146	52,258,203	52,890,137	54,910,338	63,090,053	61,279,115
Export distillate	182,456	180,817	101,168	109,376	750,347	785,310
Gas oil	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	809,620	960,061
Diesel oil	11,171	9,962	3,723	—	113,743	382,536
do. (bunkers)	228,104	258,096	253,367	233,945	337,835	224,484
do. do. (a)	5,976	10,939	57,907	196,302	18,442	—
Fuel oil	—	—	—	—	1,137,584	1,697,631
do. (bunkers)	857,043	854,901	853,200	822,090	2,199,515	2,357,238
do. do. (a)	149,011	259,422	490,426	1,251,685	64,057	—
Malaya—						
Crude petroleum	(d)	(d)	707,202	772,776	856,817	253,713
Aviation spirit	237,437	209,711	221,301	196,720	164,455	179,413
do. do. (bunkers)	8,456	9,570	12,170	15,169	18,067	24,269
Motor spirit	904,500	853,652	899,912	847,002	697,450	775,350
White spirit	50,731	72,248	79,652	75,495	53,311	71,796
Aviation turbine fuel	149	556	67	18,396	22,769	69,117
Kerosine Power	97,426	59,083	70,314	63,884	76,607	34,801
do. Other	330,815	307,154	311,862	241,564	244,551	290,639
Gas oil	392,628	300,603	365,030	424,069	354,574	358,444
Diesel oil	300,834	333,940	348,272	250,013	219,683	169,871
Fuel oil	(e) 458,273	(e) 1,037,318	580,892	445,012	188,322	201,920
Fuel and diesel oil (bunkers)	1,679,575	1,761,913	2,025,148	2,228,583	1,999,575	1,841,517
Lubricating oil	5,877	6,165	5,851	6,522	6,266	5,420
Petroleum jelly	41	82	69	27	68	53
Grease	327	320	370	349	265	236
Paraffin wax	232	260	42	5,956	88	27
Asphalt and bitumen	10,168	3,998	132,392	98,399	37,001	3,718
Qatar (c)—						
Crude petroleum	4,595,710	5,262,366	5,664,119	6,447,000	8,055,000	7,857,631
Australia (b)—						
Aviation spirit	57	—	—	2,799	381	1,440
do. do. (bunkers)	846	1,808	1,116	3,955	4,495	2,392
do. do. do. (a)	11,691	16,138	16,902	15,837	11,490	5,943
Motor spirit	1,175	43,887	124,873	75,455	155,963	159,070
Kerosine	} 621	562	23,485	17,715	{ 20,321	14,234
Aviation turbine fuel						
Lubricating oil	1,383	1,055	3,701	3,103	564	688
Diesel and fuel oils	625	129,387	431,404	573,441	989,736	922,482
Fuel oil (bunkers)—						
Domestic produce	45,700	207,057	473,017	582,896	518,513	465,221
Foreign produce	376,788	336,446	74,207	19,200	8,869	9,602
Fiji (bunkers) (a)—						
Aviation spirit	5,809	10,313	9,008	14,779	11,082	15,288
Diesel oil	3,610	4,422	3,466	4,442	6,458	3,772
Fuel oil	619	77	598	48	160	1,479

(a) Foreign produce. See imports

(b) Years ended June 30 of that stated.

(c) British Protected State.

(d) Included, if any, with fuel oil.

(e) Includes crude petroleum, if any.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959	
COMMONWEALTH COUNTRIES (cont.)							
New Zealand							
(bunkers) (c)—							
Aviation spirit	4,741	r 5,242	r 5,953	r 6,142	6,219	7,192	
Diesel oil	13,939	r 11,223	r 18,063	r 21,229	18,444	21,457	
Fuel oil	14,993	r 15,623	r 5,981	r 9,292	9,478	7,511	
Lubricating oil	761	r 801	r 1,061	1,137	1,247	1,247	
Irish Republic (a)—							
Aviation spirit (b) (c) ..	3,017	2,597	3,358	3,293	3,064	1,808	
Fuel oil (b)	—	—	—	—	—	32,990	
do. (b) (c)	31,358	46,573	50,308	26,255	44,795	29,061	
OTHER COUNTRIES							
Austria—							
Crude petroleum	—	10,068	49,371	221	—	1	
Motor spirit	—	11,807	10,613	1	—	23	
Kerosine	—	14,821	37,299	10,003	1,025	—	
Gas oil	92,137	121,736	322,500	265,534	203,242	167,883	
Fuel oil	2,036	—	2,507	8	1,139	5,713	
Lubricating oil, etc. ..	34	1,982	1,530	791	224	2,474	
Belgium-Luxemburg							
E.U.—							
Crude petroleum	2	31,309	93,142	48,011	76,312	14,199	
Motor spirit	186,242	306,447	392,538	299,524	484,004	455,321	
Kerosine	61,572	104,293	123,015	120,912	159,963	237,453	
Gas oil	267,662	303,903	512,960	586,278	628,916	679,892	
Fuel oil, etc.	1,000,813	965,321	1,094,607	932,591	1,157,655	1,022,410	
do. (bunkers) (b)	425,196	557,450	728,087	530,143	566,316	576,635	
Lubricating oil	65,940	83,772	94,181	85,471	91,499	85,950	
do. (bunkers) (b)	4,218	4,740	5,961	6,410	4,889	5,875	
Other heavy oils	183	4,161	85	2,588	140	377	
Petroleum jelly	281	413	519	799	541	917	
Paraffin wax	81	26	265	58	77	89	
Ozokerite and ceresin (d)	32	58	68	67	59	55	
Petroleum coke	9	2	3	493	28	437	
Natural asphalt	524	723	643	748	214	201	
Pitch	22,752	45,253	66,180	72,404	81,189	122,289	
Denmark (bunkers)—							
Gas oil	193,772	39,554	32,669	37,571	45,182	39,658	
Diesel oil			84,106	84,021	90,845	97,206	99,115
Fuel oil			125,328	112,528	114,154	115,111	122,454
France—							
Crude petroleum	3	—	2	19,365	44,998	986	
Aviation spirit	1,239	364	10,222	23,015	46,842	58,924	
Motor spirit	1,443,407	1,236,586	1,181,092	934,589	1,287,914	1,305,656	
White spirit	7,337	5,514	4,346	2,719	2,553	3,915	
Kerosine	396,966	433,897	411,121	353,688	456,452	479,247	
Gas oil	1,240,730	1,602,954	1,582,802	1,049,345	1,916,623	1,533,743	
do. (bunkers)—							
Domestic produce	259,003	324,867	312,409	351,634	401,905	315,291	
Foreign produce	4,289	3,369	3,570	6,896	6,149	11,834	
Fuel oil	2,337,678	1,759,040	1,293,518	1,113,190	1,891,575	2,117,398	
do. (bunkers)—							
Domestic produce	1,531,187	1,736,721	1,809,496	1,454,753	1,837,243	1,762,514	
Foreign produce	144,898	154,736	255,022	340,692	151,516	117,885	
Lubricating oil	102,534	156,740	117,287	106,106	133,649	157,095	
do. (bunkers)—							
Domestic produce	17,943	21,004	20,033	23,805	24,786	27,324	
Foreign produce	3,324	3,297	2,525	5,238	2,241	1,160	

(a) In addition re-exports of aviation spirit, presumably to the "Shannon Free Airport", were as follows (long tons): 1954—58,524; 1955—81,695; 1956—87,408; 1957—82,672; 1958—95,230; 1959—75,633.

(b) Bunkers for foreign ships or aircraft only.

(d) Including montan wax.

(c) Foreign produce. See imports.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
France (cont.)—						
Petroleum jelly	43	47	31	26	36	32
Paraffin wax	6,480	9,212	7,671	5,218	8,440	10,522
Ozokerite, ceresin, etc. . .	732	162	80	118	440	1,078
Petroleum coke	28	—	—	13	—	19
Natural asphalt and bitumen	15,485	21,766	18,125	19,415	19,881	18,150
Mastic asphalt	10,910	6,440	4,448	5,727	4,971	5,603
Bitumen, etc.	229,649	194,203	115,547	126,218	149,515	165,629
Germany (Federal)—						
Aviation and motor spirits						
do. (bunkers) (a)	234,777	327,927	407,113	219,106	366,184	323,613
do. (bunkers) (a)	47,093	57,578	64,238	66,967	75,317	67,734
Kerosine (c)	42,728	28,108	39,011	8,308	89,069	54,541
Gas and diesel oil	116,275	197,668	261,710	186,878	321,706	528,283
do. (bunkers) (a)	227,806	303,253	376,151	345,430	365,884	357,013
Fuel oil	78,843	164,675	275,401	133,515	172,602	358,369
do. (bunkers) (a)	510,511	736,297	932,319	739,188	690,112	729,892
Lubricating oil	33,947	57,369	54,044	60,599	44,091	51,804
do. (bunkers) (a)	6,369	8,118	9,152	10,718	9,964	10,900
Petroleum jelly	3,336	3,975	5,544	6,166	6,265	4,623
Paraffin wax	17,712	25,062	28,795	24,476	25,160	28,720
Ozokerite, etc.	436	248	138	101	205	175
Asphalt	1,281	1,320	1,888	2,511	975	164
Bitumen	34,913	33,475	30,478	26,431	57,561	38,541
Petroleum coke	30,902	32,053	41,978	45,922	44,881	55,588
Germany (East)—						
Motor spirit	199,382	180,241	149,907	126,173	74,833	59,078
Diesel oil	218,892	269,900	203,163	294,004	271,446	399,721
Hungary—						
Motor spirit	11,145	14,731	r 12,675	68,285	75,412	93,230
Kerosine	24,367	29,992	9,423	14,491	9,413	n.a.
Gas oil	41,796	61,355	14,962	96,680	145,618	140,313
Fuel oil	9,300	75,881	59,980	7,804	47,547	119,380
Italy—						
Crude petroleum	39	122	1	197	203,973	469,014
Aviation and motor spirits						
do. (bunkers) (a)	1,789,917	1,672,459	1,769,572	1,452,182	1,841,049	1,533,736
White spirit	27,383	12,361	25,924	42,738	40,038	190,999
Kerosine	5,238	7,994	32,887	22,582	16,682	10,276
Lubricating oil	608,105	446,116	432,584	301,828	307,178	333,551
Gas oil	70,187	72,703	132,209	26,104	49,107	106,555
do. (bunkers) (a)	1,468,470	1,560,324	1,695,928	1,857,488	1,779,134	1,981,388
Fuel oil	112,643	84,324	100,922	50,810	206,194	68,222
do. (bunkers) (a)	1,583,414	1,139,980	679,609	1,923,103	2,742,770	2,561,765
do. (bunkers) (a)	764,324	745,870	735,000	637,161	913,502	1,351,368
Paraffin wax	1,819	1,670	2,259	1,745	783	557
Asphalt and bitumen	10,130	13,173	13,028	11,089	7,500	8,955
Pitch	68,785	60,237	72,349	74,278	107,980	102,748
Netherlands—						
Aviation spirit (bunkers)	23,343	22,105	27,044	33,412	(a) 453	(a) 797
Motor spirit	1,837,890	1,925,085	1,866,565	2,186,670	2,326,815	1,956,761
Kerosine	193,057	184,673	224,614	384,544	514,854	566,235
Gas oil	1,295,849	1,762,157	1,744,122	1,923,376	2,041,032	2,155,325
do. (bunkers)	(b) 477,672	(b) 584,421	(b) 681,975	(b) 657,846	(a) 324,676	(a) 259,254
Fuel oil	2,710,258	3,162,437	3,858,197	3,580,907	4,941,011	3,876,710
do. (bunkers)	(b) 1,032,748	(b) 1,566,116	(b) 1,830,248	(b) 1,600,581	(a) 824,253	(a) 786,887
Lubricating oil	157,419	161,941	178,566	206,130	183,067	213,637
Petroleum jelly	1,815	2,830	2,606	2,724	3,121	5,245
Paraffin wax	3,931	3,315	1,361	1,714	7,262	4,564
Ozokerite and ceresin(d)	459	773	1,259	1,711	1,571	1,726
Pitch	137,103	185,973	110,519	92,263	78,471	90,925

(a) Bunkers for foreign ships or aircraft only.

(b) Including imported oil.

(c) Including aviation turbine fuel.

(d) Including montan wax.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Netherlands (cont.)—						
Natural asphalt	1	26	5	10	8	17
Petroleum coke	5,828	5,853	5,488	5,642	20,183	36,042
Norway—						
Motor spirit	316	880	917	607	875	1
Kerosine	13	21	565	60	15	267
Fuel oil and solar oil	3,537	2,058	1,792	1,131	238	316
Lubricating oil	6,124	8,886	9,508	8,997	10,592	12,159
Portugal (d)—						
Motor spirit	79,841	90,867	86,326	68,840	102,892	83,690
Kerosine	16,460	14,619	13,773	26,269	37,904	35,568
Fuel oil	145,807	102,605	92,194	86,125	159,857	164,004
do. (bunkers) (b)	76	990	11,074	3,568	1,216	18,233
Lubricating oil, etc.	444	741	1,101	1,606	1,622	2,135
Sweden—						
Motor spirit, etc.	5,127	51	33	2	487	8,937
White spirit	9	285	115	—	—	591
Kerosine	—	2,212	5	—	505	3,406
Fuel oil and gas oil	7,337	259	7,322	9,508	2,309	75,294
Lubricating oil and grease	656	1,373	6,591	11,347	14,253	23,293
Paraffin wax	13	36	20	5	4	18
Asphalt	32	14	26	62	138	1
Pitch	14,973	13,210	17,385	22,412	27,764	25,830
Switzerland—						
Asphalt and bitumen	4,360	4,968	4,029	6,237	4,321	2,217
U.S.S.R.—						
Crude petroleum	} <i>n.a.</i>	2,870,000	3,835,400	5,829,700	8,949,000	12,288,100
Motor spirit		1,382,500	1,418,600	1,678,400	1,862,800	2,582,600
Kerosine		630,500	712,600	893,800	836,700	905,000
Diesel oil		1,326,400	1,976,600	2,656,000	3,429,000	4,570,100
Fuel oil		1,476,500	1,766,300	2,158,200	2,413,100	4,207,500
Lubricating oil and grease		149,400	154,100	198,900	305,500	342,100
Paraffin wax		12,000	11,200	11,100	11,900	21,800
Bitumen	12,000	14,800	17,000	21,800	31,200	
Yugoslavia—						
Motor spirit	—	—	5,570	41,417	37,197	36,716
White spirit	1,442	1,701	1,774	1,304	673	50
Power kerosine	—	—	3,556	6,383	589	—
Gas oil	10,856	7,411	15,582	14,985	9,157	7,794
Fuel oil	38,104	30,577	45,698	29,666	26,619	9,547
Mastic asphalt	1,214	1,920	6,749	—	—	—
Algeria—						
Crude petroleum	69,638	63,151	20,854	10,693	376,243	821,801
Motor spirit (a)	15,803	16,678	20,165	24,385	28,165	32,474
Fuel oil	87	126	33	2	1	36
Fuel oil and gas oil (a)	566,254	680,677	631,371	654,000	525,199	476,892
Lubricating oil	9	20	31	35	11	12
Angola—						
Crude petroleum	—	—	3,598	4,488	—	—
Canary Islands—						
Motor spirit	176,333	215,079	218,012	310,795	309,770	308,873
Kerosine	39,776	46,184	30,310	80,250	79,486	92,561
Diesel (c)	106,883	72,885	166,737	173,507	172,054	240,559
do. (bunkers) (c)	763,322	188,990	144,253	177,303	123,267	149,314
Fuel oil (c)	142,127	195,283	188,183	480,992	603,430	583,105
do. (bunkers) (c)	850,693	230,360	290,005	318,616	216,421	246,518
Lubricating oil	804	724	12,548	10,506	7,404	19,472

(a) Bunkers of foreign produce.

(b) Bunkers for foreign ships only.

(c) Including foreign produce.

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

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Canary Islands (<i>cont.</i>)—						
Paraffin wax	1,122	1,047	589	523	561	578
Asphalt	65,094	79,290	108,626	117,633	61,433	93,781
Cape Verde Islands—						
Fuel oil (bunkers) (b) ..	690,849	440,514	433,702	529,433	455,992	465,019
Ceuta (b)—						
Diesel oil	1,084	2,715	76	7,214	50,487	13,139
do. (bunkers)	345,969	498,912	650,777	505,351	403,350	466,720
Fuel oil (bunkers)	—	—	—	92,923	—	—
Egypt—						
Crude petroleum	—	—	—	236,094	1,104,963	1,063,877
Motor spirit	1,503	3,118	1,161	1,193	2,331	27,059
Kerosine	55	537	2,921	3,184	5,329	5,862
Gas and diesel oils	—	5,830	9,293	3,873	8,711	7,335
Fuel oil	358	282	111	290	3,437	3,250
do. (bunkers) (a)	128,064	127,867	119,571	13,364	18,005	8,828
Lubricating oil	291	111	—	—	—	—
French Equatorial Africa—						
Crude petroleum	—	—	—	r 141,038	443,327	768,447
Morocco (Southern)—						
Crude petroleum	11,598	—	—	—	—	—
Sudan—						
Aviation spirit (bunkers) (b) ..	11,221	13,417	13,742	22,209	18,617	n.a.
Tunisia (bunkers)—						
Aviation spirit	4,053	1,894	3,201	3,907	212	—
Fuel oil	3	71	340	64	—	55
Mexico—						
Crude petroleum	r 650,119	r 738,834	r 816,424	r 407,932	112,615	15,827
Motor spirit	5,372	4,467	3,121	29,636	3,859	3,816
Kerosine	2,780	3,261	1,963	1,480	458	21,666
Fuel oil	2,560,283	3,042,433	2,724,602	1,625,788	1,558,602	1,817,941
do. (bunkers)	91,656	128,386	163,471	165,970	76,030	81,335
Gas oil	16,599	15,958	3,542	69,395	8,715	10,295
Natural gas (million cu. ft.) (c)	n.a.	n.a.	6	16,970	46,211	51,488
Netherlands Antilles—						
Crude petroleum	2,034,819	2,617,923	2,054,676	587,699	507,975	708,830
Aviation spirit	1,088,723	1,159,251	1,339,431	1,301,733	1,448,616	1,195,762
Motor spirit	4,164,594	3,245,143	2,623,820	2,438,893	3,471,890	2,492,642
White spirit	150,753	136,661	54,215	46,386	54,092	100,112
Kerosine	1,947,719	1,528,038	1,342,086	1,229,122	1,229,209	1,535,172
Aviation turbine fuel	678,138	1,227,937	1,620,798	1,859,385	2,340,282	2,006,922
Gas oil	2,556,367	2,822,938	2,556,587	2,744,541	3,991,875	3,216,223
Diesel oil	2,193,609	2,313,976	2,612,650	1,916,776	1,926,428	1,848,607
Fuel oil	21,331,257	23,154,116	24,999,904	22,928,528	18,805,434	19,766,415
Lubricating oil	548,009	635,615	688,656	602,087	617,446	648,592
Asphalt	582,145	702,881	617,596	683,698	746,627	861,786
United States—						
Crude petroleum	1,862,864	1,571,294	3,907,402	6,850,504	592,866	345,820
Natural gasoline	68,001	14,871	22,867	5,193	404	249
Aviation spirit	1,846,413	1,748,153	1,618,717	1,647,178	1,326,260	1,151,129
Motor spirit	858,972	869,571	1,057,336	1,447,482	644,359	397,333
Other finished light products	150,886	179,825	129,455	147,421	121,601	124,471
Kerosine	509,269	317,818	366,013	625,450	145,140	118,816
Aviation turbine fuel	18,827	15,307	23,224	13,043	22,274	22,221
Gas oil and distillate fuel oil	3,063,548	3,041,712	4,454,748	6,309,909	2,400,356	1,775,327

(a) Bunkers for foreign ships only.

(c) Imports into the United States.

(b) Foreign produce. See imports.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
United States <i>(cont.)</i> —						
Residual fuel oil ..	2,967,464	4,011,414	3,230,246	4,794,343	3,298,243	3,109,005
Fuel oil (bunkers) ..	10,970,000	11,785,000	11,935,000	13,765,000	12,193,000	12,092,000
Lubricating oil ..	1,990,168	1,879,850	2,412,643	1,808,751	1,687,949	1,826,293
Transformer oil ..	26,367	20,130	28,347	27,370	24,743	31,021
Greases ..	54,524	58,300	56,717	58,842	45,995	51,998
Paraffin wax ..	151,943	137,121	93,515	107,623	91,368	102,163
Petroleum jelly ..	39,236	44,143	41,075	36,126	34,252	34,812
Natural asphalt and bitumen ..	26,929	29,217	27,539	27,493	24,591	26,499
Other asphalt, etc. ..	259,399	239,752	210,144	250,748	175,854	132,007
Petroleum coke ..	573,883	797,026	1,138,544	924,288	786,751	835,778
Liquefied petroleum gases ..	330,083	357,003	360,614	382,908	240,809	189,902
Natural gas (<i>million cu. ft.</i>) ..	28,726	31,029	35,963	41,655	38,719	18,413
Argentina—						
Grahamite ("Rafaelite") ..	1,207	1,627	1,214	1,393	1,832	1,553
Bolivia—						
Crude petroleum ..	10,001	58,583	68,054	131,886	149,900	119,854
Motor spirit ..	2,101	14,465	22,273	21,995	16,739	355
Kerosine ..	—	825	1,046	1,265	1,141	—
Brazil—						
Crude petroleum ..	—	—	—	—	1,125,859	1,444,260
Fuel oil ..	—	—	—	141,003	183,018	44,204
Chile—						
Crude petroleum ..	125,000	—	r 15,399	46,417	—	66,000
Colombia—						
Crude petroleum ..	4,270,262	3,537,395	4,027,967	3,966,031	3,359,987	3,917,684
Fuel oil ..	32,053	148,083	167,085	270,015	639,271	627,469
Ecuador—						
Crude petroleum ..	175,889	191,157	114,203	163,157	91,326	37,316
Peru—						
Crude petroleum ..	299,182	307,943	358,227	427,445	315,593	291,416
Natural gasoline ..	28,195	29,333	20,331	19,538	6,450	1,613
Aviation spirit ..	22,942	47,714	39,378	52,038	37,677	52,081
Motor spirit (b) ..	129,764	124,486	88,210	87,558	31,026	31,661
White spirit ..	2,405	2,279	642	9	58	515
Kerosine ..	65,666	93,454	96,860	129,508	93,312	101,518
Gas oil (b) ..	110,569	252,513	315,712	133,192	71,746	41,232
Fuel oil and diesel oil ..	59,142	4,143	52,079	142,117	108,253	} 116,313
do. (bunkers) ..	43,287	23,675	24,268	29,775	25,524	
Lubricating oil and grease ..	2,297	3,150	2,306	1,631	843	713
Asphalt ..	1,728	1,258	3,144	681	—	—
Uruguay (a)—						
Motor spirit ..	<i>n.a.</i>	<i>n.a.</i>	3,000	4,000	4,000	5,000
Kerosine ..	<i>n.a.</i>	<i>n.a.</i>	—	100	100	100
Gas oil and diesel oil ..	<i>n.a.</i>	<i>n.a.</i>	40,000	43,000	40,000	32,000
Fuel oil ..	<i>n.a.</i>	<i>n.a.</i>	225,000	179,000	159,000	98,000
Venezuela—						
Crude petroleum ..	74,440,279	83,680,811	96,222,721	106,634,686	96,039,208	101,561,805
Motor spirit ..	1,561,393	1,399,860	1,117,137	1,402,057	1,853,480	2,133,411
Kerosine ..	324,398	522,133	550,827	558,318	818,929	790,185
Gas oil ..	1,535,699	2,778,959	2,912,410	2,545,487	3,513,975	3,368,399
Diesel oil ..	1,378,675	1,471,623	1,558,871	1,873,097	1,702,140	1,957,551
Fuel oil ..	13,200,827	14,827,209	17,497,286	18,010,505	19,726,698	22,549,506
Lubricating oil ..	166,473	130,707	157,952	121,596	164,783	150,600
Asphalt ..	25,088	33,394	189,962	495,199	693,981	435,256

(a) Bunkers on foreign ships only.

(b) Including bunkers.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
(cont.)						
Burma—						
Paraffin wax	1,995	3,640	3,224	4,882	5,457	6,554
Formosa—						
Asphalt	—	—	5,118	12,760	4,931	9,395
Indonesia—						
Crude petroleum ..	2,266,487	3,125,706	4,341,725	6,839,804	7,226,632	4,373,664
Motor spirit	1,765,941	1,707,863	1,485,427	1,816,272	1,401,743	1,388,264
White spirit	80,272	91,181	76,267	56,972	70,250	6,975
Kerosine	784,214	499,623	419,683	916,146	380,543	487,694
Gas and diesel oils	1,861,084	1,431,737	1,295,022	1,585,532	1,156,930	1,077,915
do. do. (bunker oil)	199,011	164,763	129,185	121,054	78,088	85,878
Fuel oil	2,229,700	2,005,813	2,084,163	3,536,477	2,483,162	2,484,688
do. (bunker oil) ..	435,654	349,417	375,370	408,247	284,492	395,832
Lubricating oil ..	64,269	84,722	92,378	23,480	31,693	52,585
Paraffin wax	75,278	77,153	61,817	62,778	42,386	47,874
Asphalt	42	15	15	—	—	—
Iran (c)—						
Crude petroleum ..	1,906,497	9,772,028	14,190,363	19,117,782	23,974,019	n.a.
Motor spirit	334,596	1,560,379	4,454,291	3,987,031	2,005,087	n.a.
Kerosine	141,529	715,529	1,417,190	1,716,704	1,653,896	n.a.
Gas oil	66,924				1,122,774	
Diesel oil	98,804				1,703,659	
Fuel oil	999,280				5,381,847	
Iraq—						
Crude petroleum ..	29,184,942	31,643,663	29,169,832	19,938,000	33,255,000	39,169,282
Motor spirit	777	642	698	115	—	n.a.
Kerosine	507	456	434	71	563	n.a.
Bitumen	1,332	1	—	—	—	n.a.
Japan—						
Aviation spirit (foreign produce) (a) ..	5,727	45,844	36,509	45,048	49,701	58,153
Motor spirit	157	56	1	10,735	207,892	237,502
Fuel oil, etc. (a)						
Domestic produce ..	175,511	170,744	227,919	136,919	118,383	108,645
Foreign produce ..	452,088	932,783	1,617,063	2,015,099	1,706,886	2,413,814
Paraffin wax	1,797	5,564	8,767	8,395	12,592	11,656
Asphalt and pitch ..	1,830	15,219	6,094	2,499	2,056	30,433
Lebanon—						
Fuel oils	2,827	1,642	—	—	—	—
Netherlands New Guinea—						
Crude petroleum ..	491,200	477,954	357,632	326,486	262,782	241,106
Neutral Zone (b)—						
Crude petroleum ..	812,000	1,126,000	1,650,000	3,242,000	(d)4,000,000	(d)4,640,000
Saudi Arabia—						
Crude petroleum ..	35,618,910	36,884,697	38,154,060	38,515,549	41,085,199	44,720,242
Syria—						
Diesel oil	2,354	5,044	—	—	—	—
Fuel oil	6,187	r 2,721	—	34	36	—
Natural asphalt ..	3,480	r 4,282	2,955	4,675	625	217

(a) Bunkers.

(d) Estimated.

(b) Neutral Zone of Kuwait and Saudi Arabia.

(c) Years ended March 20 following that stated.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS*

(Less Re-exports)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Crude petroleum ..	28,047,006	28,062,953	28,823,183	27,960,498	33,744,783	39,236,494
Aviation spirit (a) ..	319,348	256,796	337,000	334,192	293,946	452,990
Aviation turbine fuel ..		33,863	56,635	20,000	19,703	100,205
Motor spirit ..	1,025,115	1,492,997	1,568,954	1,967,228	1,933,155	2,242,266
Other spirit ..	161,983	116,182	158,682	275,385	123,755	118,514
Kerosine—Power ..	710,674	678,701	467,177	501,336	265,384	278,911
do. Other ..	592,925	387,099	296,865	490,284	517,706	766,092
Aviation jet fuel ..		467,851	608,167	478,713	328,223	235,908
Fuel oil (a) ..	1,593,909	2,305,769	3,070,979	r 3,892,485	4,819,310	5,217,358
Diesel oil ..	211,922	227,564	240,907	180,432	85,332	233,923
Gas oil ..	1,291,372	1,849,432	1,765,857	2,080,135	1,874,365	1,980,289
Lubricating oil ..	463,033	444,385	458,373	r 390,972	403,480	410,355
Mineral jelly ..	7,744	11,055	9,279	8,261	5,381	5,538
Paraffin wax ..	40,209	37,583	33,602	33,372	30,216	32,383
Other petroleum wax ..	7,757	7,604	8,327	6,985	6,949	54,605
Ozokerite ..	11	8	3	—	—	—
Petroleum coke ..	18,820	27,492	24,654	30,876	49,333	66,114
Asphalt and bitumen (d) ..	64,607	81,018	69,117	74,371	68,614	61,694
Channel Islands—						
Aviation spirit ..	2,568	3,131	3,902	4,448	4,876	3,977
Motor spirit ..	17,651	18,247	19,746	18,033	19,823	21,317
Other spirit (b) ..	80	68	71	68	69	65
Kerosine ..	1,988	1,816	2,460	2,102	4,378	4,906
Gas and fuel oil ..	27,289	32,826	41,776	40,918	55,796	68,485
Lubricating oil ..	1,108	1,242	1,273	1,067	1,446	1,493
Greases (b) ..	13	16	22	17	17	21
Gibraltar (e)—						
Motor spirit, fuel oil, etc. ..	5,000	5,000	5,000	5,000	5,000	5,000
Kerosine ..	217	269	299	288	300	250
Malta—						
Aviation spirit (a) ..	26,438	19,801	34,621	27,721	22,831	16,407
Motor spirit ..	15,831	21,572	18,174	18,251	16,646	18,258
Aviation turbine fuel (a) ..	12,731	5,926	5,161	4,002	809	43,435
Kerosine ..	29,422	35,988	57,202	62,287	75,073	23,069
Fuel oil (a) ..	30,865	31,316	32,082	38,080	33,575	63,673
Gas oil (a) ..	15,385	15,825	15,736	19,459	17,054	19,517
Lubricating oil ..	982	1,350	1,519	1,343	1,068	1,438
Gambia—						
Aviation spirit ..	926	(c) 1,270	477	669	(c) 87	39
Motor spirit ..	1,994	2,271	2,221	2,858	2,598	2,310
Kerosine ..	r 556	563	645	576	822	538
Aviation turbine fuel ..	—	—	108	—	16	(c) 76
Other fuel oils ..	—	—	66	307	512	(c) 3,484
Gas oil ..	1,649	1,759	1,757	1,764	1,031	2,060
Diesel oil ..	61	85	620	1,403	2,806	751
Lubricating oil ..	r 175	232	243	262	293	206
Asphalt and bitumen ..	82	256	4	—	243	n.a.
Ghana—						
Aviation spirit (a) ..	1,323	3,197	3,565	6,253	5,617	4,146
Motor spirit ..	96,914	106,724	110,119	132,464	136,740	125,156
Kerosine ..	24,215	34,806	27,098	39,767	40,848	45,690
Fuel oil (a) ..	30,350	49,925	42,979	42,041	69,867	46,976
Gas oil (a) ..	51,658	50,087	66,925	85,258	103,906	112,938

*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.

(d) Natural.

(c) Excess of re-exports.

(e) Excluding imports for bunkers.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES (cont.)						
Ghana (cont.)—						
Diesel oil	28,045	57,735	24,890	29,822	3,514	29,376
Lubricating oil (b)	9,179	r 11,595	9,832	11,020	9,686	12,004
Greases	380	679	347	314	480	475
Asphalt and bitumen	11,280	17,847	13,355	17,641	8,859	13,910
Kenya—						
Aviation spirit (b)	24,110	11,351	17,581	13,514	16,107	10,774
Motor spirit (b)	97,493	121,169	118,340	100,263	113,100	109,227
Kerosine—Power	11,423	11,402	12,566	12,221	26,034	21,194
do. Other	25,870	21,181	23,699	26,885	37,858	22,197
Gas, diesel, fuel oils (b)	484,711	548,235	608,484	630,404	531,181	594,422
Lubricating oil (b)	7,563	12,557	8,279	8,906	13,034	1,952
Greases	704	549	621	659	647	355
Petroleum jelly and paraffin wax	50	181	425	(a) 75	209	215
Asphalt	7,196	10,627	14,372	13,607	9,832	17,726
Mauritius—						
Aviation spirit (b)	705	1,171	1,191	1,389	2,279	1,676
Motor spirit	18,951	16,682	25,802	24,275	24,680	28,426
Kerosine	3,726	3,004	4,525	3,548	3,590	3,034
Lubricating oils	1,667	1,283	1,424	1,444	1,586	1,436
Gas, diesel, fuel oils (b)	14,229	12,785	22,992	27,699	22,274	28,058
Grease	136	137	150	109	97	156
Asphalt and pitch	1,498	2,474	1,613	4,766	3,635	2,848
Nigeria—						
Aviation spirit	16,433	16,386	15,046	28,194	30,876	17,091
Motor spirit	138,833	135,044	166,237	161,126	160,041	193,437
White spirit	182	118	97	142	160	(a) 5
Aviation turbine fuel	2,700	2,583	(a) 44	4,303	4,145	7,835
Kerosine	49,936	52,212	70,049	62,768	69,531	96,825
Gas oil (b)	20,120	24,913	29,235	27,327	31,414	78,821
Diesel oil (b)	13,686	23,293	49,889	57,560	103,556	116,158
Fuel oil (b)	22,105	39,563	29,917	37,067	36,425	58,856
Lubricating oil	8,076	10,733	9,172	13,082	12,504	13,049
Greases	407	484	426	457	627	757
Petroleum jelly	193	114	131	213	413	230
Asphalt and bitumen	17,036	21,722	13,356	11,838	25,989	32,509
Rhodesia and Nyasaland—						
Aviation spirit	11,209	12,552	12,541	12,331	10,944	10,062
Motor spirit	175,298	188,216	215,328	221,074	240,589	239,523
Kerosine—Power	21,862	21,324	20,234	16,461	18,868	14,356
do. Other	17,073	17,274	21,260	20,085	22,013	22,677
Fuel oil	71,646	87,532	140,169	150,328	167,493	174,746
Lubricating oil	16,238	18,512	17,582	21,874	19,034	18,335
Other petroleum products	2,556	3,665	6,780	13,235	15,061	17,376
Greases	1,417	(c) 2,243	(c) 1,915	(c) 2,456	(c) 1,705	(c) 2,063
Paraffin wax	841	743	1,090	1,435	1,060	1,210
Asphalt and bitumen	16,298	26,457	22,801	27,426	23,480	25,776
St. Helena—						
Motor spirit	231	206	252	123	252	173
Kerosine	90	78	95	65	125	46
Diesel oil	221	36	222	85	135	78
Lubricating oil	28	6	18	7	18	7
Seychelles—						
Motor spirit	329	228	396	208	263	244
Kerosine	257	222	210	265	269	271
Fuel oil	205	186	311	196	302	229
Sierra Leone—						
Aviation spirit (b)	748	695	911	(a) 132	718	200

(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	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES (cont.)						
Sierra Leone (cont.)—						
Motor spirit	6,809	9,997	14,073	17,886	16,499	21,109
Kerosine	8,235	r 7,482	r 9,401	r 12,712	9,627	13,713
Gas oil (b)	4,718	5,771	4,857	3,987	5,025	15,194
Diesel oil (b)	1,466	466	20,082	81,330	76,077	81,450
Fuel oil (b)	5,261	7,186	45,439	237,855	151,617	164,863
Lubricating oil	616	980	1,423	1,274	1,529	1,279
Asphalt and bitumen ..	1,071	1,011	2,094	2,211	4,034	1,788
Somaliland Protectorate—						
Aviation and motor spirit	3,075	3,442	3,534	3,628	3,908	5,405
Kerosine	564	603	532	598	738	772
Gas oil	730	878	957	1,765	1,587	2,110
Lubricating oil	76	131	146	170	140	59
South West Africa—						
Motor spirit	28,611					
Kerosine—Power	2,666					
do. Other	3,825					
Diesel oil	35,943	(a)	(a)	(a)	(a)	(a)
Lubricating oil	2,224					
Asphalt and bitumen ..	767					
Tanganyika—						
Aviation spirit (b)	1,413	3,275	3,513	3,614	2,724	3,278
Motor spirit	52,404	53,318	65,514	75,019	72,204	66,926
Kerosine—Power	1,829	1,556	1,279	1,799	838	1,690
do. Other	16,043	23,150	19,814	29,129	24,591	28,661
Gas, diesel, fuel oils (b)	63,788	98,829	125,588	145,554	172,645	138,339
Lubricating oil	4,239	7,234	5,285	4,716	6,320	4,886
Greases	261	412	448	374	503	506
Petroleum jelly and paraffin wax	34	72	75	43	75	62
Asphalt	4,246	7,165	7,727	4,630	4,237	5,367
Uganda—						
Aviation spirit (b)	4,538	6,875	4,187	4,269	4,548	3,487
Motor spirit	44,398	54,547	54,997	55,057	55,535	55,805
Kerosine—Power	1,191	1,015	1,794	2,340	2,711	2,667
do. Other	15,877	18,054	21,007	19,422	19,316	19,790
Gas, diesel, fuel oils ..	25,237	29,021	30,536	37,815	46,142	38,612
Lubricating oil	3,560	4,110	3,590	3,245	3,745	3,648
Greases	259	288	404	295	339	422
Petroleum jelly and paraffin wax	61	52	43	51	64	70
Asphalt	1,741	1,914	1,346	3,647	4,046	2,891
Union of South Africa—						
Crude petroleum	773,151	1,007,895	1,038,216	1,138,813	1,381,367	1,375,984
Motor spirit (b)	978,807	1,031,523	1,116,556	1,029,563	1,128,765	1,110,949
Other spirit	15,189	15,072	16,387	16,097	19,102	15,494
White spirit	21,436	30,957	26,545	r 27,369	31,610	21,123
Kerosine—Power	346,112	327,043	332,542	315,195	295,483	241,076
do. Other	152,557	147,250	155,621	144,555	184,188	152,429
Gas oil		312,237	422,964	453,866	477,397	509,179
Diesel oil (b)		80,994	133,337	165,238	64,877	33,570
Fuel oil (b)	198,378	166,048	415,739	716,511	151,497	197,287
Lubricating oil	96,675	125,249	105,058	127,350	96,017	104,701
Transformer oil	3,910	4,790	4,602	4,815	5,374	3,186
Road oil	3,002	2,881	1,831	895	382	2,836
Other oils	2,656	3,411	4,120	3,328	3,027	3,509
Paraffin wax	17,895	20,727	19,264	20,847	15,051	15,296
Asphalt and bitumen ..	28,860	35,638	32,960	37,539	37,116	32,997
Petroleum jelly	3,395	3,191	3,291	3,122	2,943	2,994

(a) Included with Union of South Africa.

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

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES (cont.)						
Zanzibar—						
Aviation and motor spirit	3,810	4,174	4,303	4,235	4,043	3,780
Kerosine, etc.	2,865	3,214	3,541	3,595	3,031	3,241
Fuel oils	748	2,079	2,461	2,996	3,230	3,599
Canada—						
Crude petroleum	11,253,182	12,382,567	15,210,002	16,001,053	14,862,686	16,469,806
Tops for refiners	14,177	14,536	21,807	—	23,162	—
Aviation spirit	262,180	345,613	327,639	372,086	262,621	314,011
Motor spirit	437,721	335,995	333,687	299,827	332,222	311,646
Kerosine, etc.	69,279	44,454	73,284	58,685	37,807	74,946
Lubricating oils	138,268	177,701	176,010	162,499	139,649	163,686
Diesel oil	247,493	318,794	263,196	223,536	229,228	222,234
Fuel oil	3,159,639	3,368,011	3,361,871	3,034,524	2,763,151	3,909,523
do. (a)	34,340	7,115	—	223	2,388	5,891
Other petroleum oils	8,054	7,088	7,525	6,249	3,649	3,645
Liquefied petroleum gas	118,446	99,207	91,442	96,983	38,915	7,677
Grease	6,333	8,352	8,136	7,860	6,960	7,415
Paraffin wax, etc.	15,418	19,164	19,316	19,405	19,921	21,723
Asphaltum oil, etc.	641	283	304	2,038	2,495	4,194
Asphalt	27,963	25,707	28,908	38,242	23,231	31,639
Petroleum coke	254,713	361,352	394,286	380,024	268,073	281,011
Other products	44,930	57,189	86,214	75,035	89,646	95,305
Natural gas (million cubic feet)	6,236	11,166	15,695	30,551	34,716	11,903
British Guiana—						
Aviation spirit (b)	530	3,098	1,225	1,195	1,859	1,809
Motor spirit	12,843	13,973	16,005	16,946	17,554	19,241
Kerosine	7,659	9,048	10,224	11,771	12,983	14,452
Gas, diesel and fuel oils	128,516	139,352	149,233	140,562	112,798	147,231
Lubricating oil	2,426	2,037	1,766	2,449	2,181	2,378
Paraffin wax	21	12	12	11	23	24
Petroleum jelly	66	16	67	38	53	71
Road oil	786	590	785	1,108	1,212	697
Asphalt and bitumen	244	401	250	295	1,060	327
Asphalt natural	389	263	347	137	558	486
British West Indies—						
Bahamas—						
Motor spirit	12,921	17,262	16,990	23,164	23,623	31,266
Kerosine	3,978	4,418	5,316	6,487	7,058	10,916
Fuel oils	14,237	22,104	23,329	24,629	26,029	42,521
Lubricating oil	376	484	612	808	540	928
Barbados—						
Crude petroleum	8,338	5,680	8,204	6,719	5,581	5,445
Aviation and motor spirit	10,792	11,238	12,274	10,494	11,497	11,797
Kerosine	8,105	8,449	9,359	8,952	10,109	9,994
Gas oil and diesel oil	7,420	8,740	7,067	3,803	10,612	13,528
Fuel oil	—	—	—	7,728	3,001	
Lubricating oil	547	758	672	709	812	1,165
Road oil	2,182	75	41	17	24	15
Bermuda (b)—						
Aviation and motor spirits	46,726	56,308	77,397	88,560	80,806	119,539
Aviation turbine fuel	5,978	4,516	5,905	5,005	24,515	26,528
Kerosine	1,848	1,595	2,878	4,654	3,242	21,253
Diesel oil	19,119	14,640	18,537	19,157	22,305	31,229
Fuel oil	5,791	21,808	10,227	25,232	10,808	9,304
Lubricating oil	1,030	777	1,205	1,662	1,770	1,300
Asphalt	1,319	1,338	640	r 1,600	865	1,990

(a) Ex warehoused, for ships' stores.

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

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES (cont.)						
British West Indies— (cont.)						
Cayman Islands—						
Aviation and motor spirits	300	414	783	946	1,598	1,657
Kerosine	216	216	219	331	474	481
Diesel oil	35	47	188	180	297	396
Dominica—						
Motor spirit	686	841	888	n.a.	1,028	1,485
Kerosine	455	446	489	n.a.	466	723
Fuel oil and diesel oil	464	428	517	n.a.	631	1,041
Lubricating oil .. .	48	41	68	n.a.	79	127
Road oil	56	n.a.	67	n.a.	115	968
Grenada—						
Motor spirit	1,839	2,010	2,278	1,975	2,235	n.a.
Kerosine	933	1,005	1,021	961	1,371	n.a.
Fuel oil	651	794	956	1,014	1,284	n.a.
Lubricating oil .. .	62	103	100	90	97	n.a.
Road oil	464	446	467	528	647	n.a.
Jamaica—						
Aviation spirit (b) ..	14,628	17,118	19,185	18,688	15,312	19,568
Motor spirit	45,496	40,810	49,737	55,959	60,884	69,657
Kerosine	15,273	r 17,243	20,155	22,301	25,937	29,366
Gas oil (b)	27,677	r 32,827	(a) 5,734	47,520	41,731	43,102
Diesel oil (b)	44,190	r 38,429	56,393	75,073	67,671	77,409
Fuel oil (b)	265,326	r 293,596	309,897	391,612	366,038	490,641
Lubricating oil .. .	3,169	r 3,783	4,146	3,796	3,640	4,934
Grease	208	290	327	480	385	492
Petroleum jelly .. .	168	111	147	159	207	195
Paraffin wax	26	29	22	16	16	20
Natural asphalt .. .	5,201	7,037	7,684	r 2,774	3,027	4,886
Leeward Islands—						
Motor spirit	1,404	3,298	3,000	r 4,470	3,703	n.a.
Kerosine	1,340	2,674	1,542	2,481	3,050	n.a.
Gas oil	2,437	1,132	1,067	1,027	890	n.a.
Diesel oil	1,386	1,778	2,359	2,998	3,840	n.a.
Fuel oil	177	492	246	216	226	n.a.
Lubricating oil .. .	200	561	199	395	359	n.a.
St. Lucia—						
Motor spirit	868	920	1,091	1,048	1,081	1,371
Kerosine	454	500	866	531	580	729
Fuel oil	723	1,228	5,051	1,946	2,057	1,823
Lubricating oil .. .	66	105	106	r 101	109	117
Road oil	604	714	906	1,020	604	894
St. Vincent—						
Aviation and motor spirits	918	1,077	1,205	1,250	1,568	1,977
Kerosine	569	603	547	r 718	883	978
Gas, diesel and fuel oils	253	r 271	r 457	r 384	600	634
Lubricating oil .. .	61	70	r 51	55	90	95
Road oil	198	200	221	602	717	1,443
Asphalt	1	1	1	3	2	10
Trinidad and Tobago—						
Crude petroleum .. .	2,324,496	2,481,671	2,561,513	2,556,239	3,602,473	4,394,648
Aviation and motor spirits	4	233	8	(a) 8	1,440	2,029
Kerosine	—	—	—	4,401	1,720	(a) 6
Gas oil	26,753	113,315	75,966	57,523	113,051	140,309
Fuel oil	2	3	3	(a) 305	—	22,010
Lubricating oil .. .	4,468	4,168	4,398	8,853	4,732	6,161
Greases	301	370	320	292	(a) 336	330

(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	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES (cont.)						
British West Indies (cont.)—						
Trinidad and Tobago (cont.)—						
Petroleum jelly ..	66	91	123	62	105	<i>n.a.</i>
Paraffin wax ..	21	14	5	8	104	29
Turks and Caicos Islands						
Aviation and motor spirit						
.. .. .	<i>n.a.</i>	59	88	82	109	174
Kerosine	<i>n.a.</i>	102	123	101	118	155
Gas, diesel and fuel oils	<i>n.a.</i>	77	39	76	180	752
Lubricating oil	<i>n.a.</i>	3	4	—	3	4
British Honduras—						
Aviation spirit	587	383	(b) 484	224	(b) 209	789
Motor spirit	3,887	3,859	4,249	3,976	4,729	5,390
Kerosine	1,627	2,042	2,160	1,941	2,919	2,959
Diesel and fuel oils	3,645	3,926	3,417	2,989	4,463	4,536
Lubricating oil	236	427	525	396	326	465
Asphalt	1,272	491	188	489	966	379
Falkland Islands—						
Motor spirit	236	255	250	210	266	205
Kerosine	106	127	94	11	128	29
Gas and diesel oils	1,088	2,383	772	8,454	8,472	2,573
Fuel oil (c)	104,199	175,184	107,814	97,311	115,314	57,365
Lubricating oil	169	196	195	114	349	227
Aden Colony—						
Crude petroleum	—	4,265,197	4,585,746	4,416,767	3,691,645	4,139,454
Motor spirit	6,211	78	27,163	15,520	20,661	18,108
Kerosine	5,028	2,059	—	—	28,763	91,504
Gas and fuel oils (c)	3,754,822	1,148,439	753,662	557,336	1,381,438	1,445,233
Lubricating oil and greases	2,562	3,388	3,348	5,041	4,173	4,287
Asphalt and bitumen	8,984	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Aden Protectorate (d)—						
Motor spirit	1,107	407	6,084	11,753	8,455	6,162
Kerosine	122	1,348	4,629	5,123	6,441	9,849
Gas oil	1,400	} 28	66,912	4,332	7,860	4,632
Fuel oil	50					
Lubricating oil	67	64	165	176	207	173
Bahrain Islands (a)—						
Crude petroleum	9,059,300	8,397,900	8,057,300	7,295,000	7,341,000	7,011,000
British Borneo—						
Brunei—						
Motor spirit	7,421	2,420	2,657	4,485	4,176	2,197
Kerosine	1,837	798	768	1,139	837	1,270
Diesel oil	8,928	2,326	1,282	2,695	182	47
Fuel oil	1,690	537	95	—	6	—
Lubricating oil	1,001	2,171	271	2,884	1,345	1,294
Grease	169	483	11	52	38	23
North Borneo—						
Motor spirit	4,360	2,920	2,298	683	1,191	18,487
Kerosine	4,214	4,307	3,997	4,110	3,982	9,145
Gas, diesel and fuel oils	4,624	2,067	6,362	5,915	(b) 2,831	25,188
Lubricating oil	759	847	712	890	516	2,670
Asphalt and bitumen	78	1,148	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

(a) British Protected State.

(b) Excess of re-exports.

(c) Including imports for bunkering purposes.

(d) Exports from Aden Colony to the Protectorate.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES (cont.)						
British Borneo (cont.)—						
Sarawak—						
Crude petroleum ..	4,707,024	5,175,032	5,548,598	5,441,292	5,125,219	5,313,995
Aviation spirit ..	363	414	591	667	577	928
Motor spirit ..	6,239	5,589	8,126	9,179	8,911	11,116
Kerosine ..	6,728	7,060	7,536	7,697	8,142	8,640
Gas oil ..	2,539	4,275	7,658	6,619	8,226	10,466
Diesel oil ..	5,051	3,981	3,203	5,545	6,154	3,982
Fuel oil ..	1,195	531	618	595	718	3,612
Lubricating oil ..	1,485	1,887	1,398	1,608	1,746	2,187
Paraffin wax ..	5	8	11	4	8	3
Mineral jelly ..	40	26	53	35	46	37
Natural gas (million cubic feet) ..	1,958	2,800	2,779	2,545	2,480	2,540
Ceylon—						
Aviation spirit (a) ..	8,476	6,632	9,351	8,670	8,531	8,215
Motor spirit ..	117,946	125,467	109,289	177,113	141,613	151,838
Kerosine ..	80,335	92,146	99,377	110,155	122,594	134,477
Gas oil (a) ..	31,215	36,173	44,505	72,372	63,469	90,679
Diesel oil (a) ..	133,575	161,379	132,952	190,046	126,587	130,999
Fuel oil (a) ..	365,460	511,598	375,750	805,776	429,870	415,232
Lubricating oil ..	6,041	7,953	8,826	10,190	7,279	13,055
Other oils and greases ..	209	415	367	759	388	680
Asphalt (incl. natural) ..	3,533	4,341	17,533	4,347	8,763	24,549
Cyprus—						
Aviation spirit (a) ..	53,056	48,619	72,479	8,190	13,221	6,962
Motor spirit ..				50,218	54,334	53,864
Aviation turbine fuel ..	n.a.	n.a.	n.a.	35,738	59,300	41,664
Kerosine, etc. ..	19,538	32,561	62,945	22,432	22,602	24,661
Fuel oils ..	74,180	74,304	106,572	159,016	141,702	159,932
Lubricating oil ..	2,142	3,160	3,007	3,158	2,642	3,044
Paraffin wax and petroleum jelly ..	183	106	126	(e) 164	(e) 184	(e) 193
Asphalt and bitumen ..	5,522	10,626	10,520	5,512	5,491	5,293
Hong Kong—						
Aviation spirit ..	16,952	9,647	15,400	11,899	19,003	19,772
Motor spirit ..	45,897	49,132	63,759	45,473	56,260	69,344
White spirit ..	2,553	2,856	4,124	3,468	3,844	5,152
Kerosine ..	51,037	64,565	86,770	75,754	79,082	103,071
Diesel oil and gas oil ..	140,102	118,973	160,929	178,254	176,854	180,325
Fuel oil ..	533,642	541,177	699,823	725,464	760,466	727,319
Lubricating oil ..	5,200	7,214	14,536	9,228	7,577	8,710
Greases ..	322	482	390	594	385	418
Petroleum jelly ..	411	284	97	68	157	89
Paraffin wax ..	1,642	1,772	955	1,174	887	1,406
Asphalt and bitumen ..	1,390	4,580	7,354	10,474	6,649	8,976
Asphalt (natural) ..	389	576	61	258	156	320
India—						
Crude petroleum ..	(d)	b 2,637,148	4,073,637	3,463,319	1,779,734	1,183,500
Aviation and motor spirits (a) ..	756,562	351,099	116,191	142,914	70,831	82,247
Other spirit ..	4,221	7,572	—	1,112	139	113
Kerosine ..	1,138,308	966,262	996,441	1,163,311	940,579	1,073,208
Diesel oil ..	813,812	384,159	285,072	n.a.	2,718,221	6,156,797
Fuel oil (a) ..	(c) 716,494	183,241	27,261	22,080	32,978	32,330
Lubricating oil ..	222,015	157,701	194,575	290,160	161,106	198,339
Turpentine substitute ..	6,842	3,006	10,513	9,341	6,197	12,407
Other oils ..	39,614	99,611	83,430	n.a.	n.a.	n.a.
Greases ..	2,483	4,559	4,752	3,700	3,255	3,502
Petroleum jelly ..	n.a.	n.a.	n.a.	1,619	2,208	1,962

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

(b) April to December only.

(c) Including crude petroleum.

(d) Included with fuel oil.

(e) Paraffin wax only.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
<i>(cont.)</i>						
India <i>(cont.)</i> —						
Paraffin wax	1	2	28	5	3	6
Asphalt	163,526	404,134	128,403	33,281	14,248	6,126
Kuwait <i>(a) (b)</i> —						
Diesel oil	5,976	10,939	57,907	196,302	18,442	—
Fuel oil	149,011	259,422	490,426	1,251,685	64,057	—
Malaya—						
Crude petroleum	—	—	661,395	843,278	788,976	285,213
Aviation spirit	292,509	271,723	260,859	257,390	173,304	225,709
Motor spirit	1,194,463	1,238,961	1,240,431	1,129,833	993,531	1,021,451
White spirit	56,281	78,989	61,962	60,648	61,451	82,441
Aviation turbine fuel	<i>n.a.</i>	<i>n.a.</i>	33,316	44,291	116,275	170,689
Kerosine—Power	91,915	54,028	73,983	73,669	74,645	33,595
do. Other	286,642	389,718	398,566	349,100	289,789	363,359
Gas oil	768,164	748,891	783,619	785,756	755,001	757,751
Diesel oil	690,334	743,543	705,802	660,700	715,539	599,986
Fuel oil	2,393,670	3,030,055	2,791,339	2,932,940	2,477,186	2,174,469
Lubricating oil	24,388	33,229	34,311	35,389	30,113	31,056
Paraffin wax	2,016	2,423	5,090	2,712	2,538	2,775
Petroleum jelly	479	684	788	727	742	733
Grease	1,332	1,870	1,773	1,672	1,099	1,169
Asphalt and bitumen	40,254	48,912	176,937	139,689	49,053	45,892
Natural asphalt	5,406	16	—	20	197	—
Pakistan <i>(d)</i> —						
Motor spirit	68,822	34,464	23,491	19,428	17,536	62,800
Other spirit	28,243	33,895	3,087	5,959	546	1,659
Kerosine	150,613	146,771	124,678	97,910	76,894	152,872
Diesel oil	160,033	208,883	162,115	180,384	195,242	270,669
Fuel oil	488,255	402,161	164,895	189,112	121,913	470,426
Lubricating oil	33,057	34,573	46,756	30,617	30,406	57,763
Other oils	1,844	1,930	6,410	686	12,515	14,646
Grease	1,913	749	1,604	1,242	1,062	1,381
Paraffin wax	632	631	543	760	1,662	1,009
Asphalt	6,778	18,642	8,445	11,989	6,615	9,299
Australia <i>(c)</i> —						
Crude petroleum	1,209,891	3,782,170	6,903,793	8,649,388	9,881,060	10,329,346
Aviation spirit <i>(a)</i>	145,058	137,029	152,917	103,964	84,839	86,634
Motor spirit	2,094,448	1,817,542	1,321,475	507,595	477,464	622,571
White spirit	41,789	48,514	58,135	53,030	55,258	56,456
Kerosine—Power	271,487	320,594	263,100	247,884	200,140	174,975
do. Other	223,762	224,849	206,989	166,511	167,829	159,970
Aviation turbine fuel			51,657	33,163	9,771	15,164
Lubricating oil	105,350	172,751	166,976	173,255	158,980	188,885
Gas and diesel oils	413,494					
Fuel oil <i>(a)</i>	1,510,771	1,505,222	622,952	147,878	104,877	52,995
Other oils	6,412	1,589	169,587	181,625	63,972	6,116
Petroleum jelly	1,159	1,648	1,491	1,593	2,089	2,001
Paraffin wax	4,356	6,530	4,909	6,338	8,069	7,345
Mastic asphalt	110	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Natural asphalt	604	18,170	1,818	1,578	2,141	1,768
Bitumen and pitch	2,133	7,757	5,344	645	1,083	768
Fiji—						
Aviation spirit <i>(a)</i>	10,165	10,659	11,885	16,120	19,138	13,647
Motor spirit	13,965	16,582	18,738	16,718	25,689	20,086
Kerosine	4,402	4,747	3,024	5,682	6,721	10,719
Diesel oil <i>(a)</i>	12,655	22,346	24,470	24,344	24,117	19,198
Fuel oil <i>(a)</i>	1,477	3,203	4,298	3,378		13,983
Lubricating oil	1,158	1,130	1,468	1,153	1,359	1,602
Greases	87	222	253	215	159	290

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

(b) British Protected State.

(c) Years ended June 30 of that stated.

(d) Years ended March 31 following that stated, up to 1955 inclusive.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES (cont.)						
New Guinea (d)—						
Aviation and motor spirits	8,010	9,520	11,288	11,182	15,530	12,002
Kerosine	2,185	2,432	2,892	3,742	4,069	2,430
Fuel oils	8,071	13,289	10,399	10,306	15,076	15,198
Lubricating oil	778	756	n.a.	908	774	1,020
New Hebrides—						
Aviation and motor spirits	1,694	1,600	1,624	2,029	2,411	3,032
Kerosine	964	745	689	1,077	964	996
Other oils	1,853	1,717	1,309	1,706	3,013	3,596
New Zealand—						
Aviation spirit (b)	24,834	32,317	r 28,769	r 27,760	33,697	25,401
Motor spirit	671,101	r 712,131	r 766,498	r 821,178	762,903	778,218
White spirit	8,025	r 8,612	r 10,972	r 9,073	11,897	10,697
Aviation turbine fuel	3,194	7,438	r 7,100	7,466	1,718	10,923
Kerosine—Power	11,099	r 10,561	r 9,881	6,992	4,317	6,213
do. Other	11,751	r 10,686	r 15,639	r 24,578	32,135	25,305
Gas oil	112,544	r 123,466	r 206,842	r 231,350	198,792	230,799
Diesel oil (b)	233,951	r 160,028	r 168,465	r 152,250	192,173	232,454
Fuel oil (b)	195,526	r 310,652	r 222,048	r 311,850	255,381	140,656
Lubricating oil (b)	30,035	r 30,892	r 39,933	r 33,410	33,078	38,723
Transformer oil	1,096	r 1,405	1,145	2,139	1,312	526
Other refined oils	6,460	n.a.	n.a.	n.a.	n.a.	n.a.
Petroleum jelly	40	132	r 949	r 349	200	131
Paraffin wax	1,642	1,016	r 657	r 1,979	1,468	1,322
Asphalt and bitumen	23,889	r 38,757	r 53,903	r 58,099	33,333	53,727
do. natural	3,589	r 623	r 1,104	791	188	644
Papua (d)—						
Aviation and motor spirits	5,756	6,088	7,412	10,652	7,126	10,144
Kerosine	257	702	692	377	202	1,572
Fuel oil	6,448	10,365	8,867	10,572	7,659	7,293
Lubricating oil	378	525	n.a.	715	578	626
Solomon Islands (c)—						
Motor spirit	n.a.	403	636	947	651	1,049
Kerosine	n.a.	246	232	245	446	594
Lubricating oil	n.a.	61	27	66	180	127
Western Samoa—						
Motor spirit	2,181	2,403	2,145	2,883	2,254	2,556
Kerosine	619	516	564	606	635	712
Fuel oil	595	909	980	1,297	1,251	999
Lubricating oil	85	89	23	21	50	90
Irish Republic—						
Crude petroleum	—	—	—	—	—	824,578
Aviation spirit (b)	6,964	4,850	6,442	8,552	469	(e) 2,710
Motor spirit	259,624	273,006	285,977	247,844	264,694	165,114
White spirit	2,931	2,965	3,143	3,591	2,916	3,368
Kerosine—Power	44,909	45,720	45,146	38,656	31,760	15,509
do. Other	66,578	71,311	65,998	64,978	81,684	80,408
Diesel oil, etc. (b)	194,746	259,206	747,091	193,914	217,859	129,102
Fuel oil (b)	216,970	329,929			410,894	359,493	218,908
Lubricating oil	17,071	20,026	21,255	15,220	18,400	20,523
Paraffin wax	1,937	(a) 2,215	(a) 1,841	(a) 1,919	(a) 1,368	(a) 1,753
Asphalt and bitumen	1,592	1,550	495	100	376	61

(a) Including other mineral jellies and waxes.

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

(c) Years ended March 31 following that stated.

(d) Years ended June 30 of that stated.

(e) Excess of re-exports.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
Austria—						
Motor spirit	30,100	95,649	101,392	145,862	207,803	247,919
Gas oil	11,614	28,861	11,632	1,471	6,649	26,667
Fuel oil	15,979	174,896	110,345	195,425	469,285	530,350
Lubricating oil, etc. ..	17,822	21,854	26,504	25,269	28,131	31,556
Petroleum jelly	221	253	183	179	244	239
Paraffin wax	2,935	3,549	3,444	3,840	4,005	4,662
Ozokerite and ceresin ..	624	628	729	688	649	588
Natural asphalt. . . .	642	649	697	2,158	1,277	906
Petroleum coke	16,216	24,758	34,658	21,734	18,316	8,095
Bitumen, etc.	8,376	20,612	19,276	17,591	38,633	53,286
Belgium-Luxemburg						
E.U.—						
Crude petroleum	3,671,078	4,637,230	5,250,512	5,388,051	6,419,055	6,610,844
Motor spirit, etc.	344,853	348,089	335,266	382,413	407,178	315,204
Kerosine	54,131	28,866	32,276	28,409	32,780	27,940
Fuel oil and gas oil ..	1,381,454	1,704,246	2,156,076	2,343,626	2,214,067	2,161,123
Lubricating oil	159,961	176,883	185,898	181,488	161,791	178,291
Other heavy oils	4,137	4,739	4,470	3,782	4,596	10,998
Petroleum jelly	999	1,130	1,510	1,320	1,040	1,435
Paraffin wax	4,217	4,713	5,540	5,308	4,748	4,730
Ozokerite and ceresin (a)	277	342	470	409	482	401
Petroleum coke	40	446	107,712	55,969	63,834	34,362
Natural asphalt. . . .	6,415	7,067	6,820	4,900	3,829	2,758
Pitch	1,102	5,208	5,514	3,308	34,106	59,947
Denmark—						
Crude petroleum	32,595	29,999	18,885	29,696	30,005	37,790
Motor spirit	597,831	681,734	722,169	769,685	888,316	924,738
White spirit	12,044	9,901	12,142	12,292	11,765	13,656
Kerosine	40,189	121,171	107,987	118,068	112,274	161,027
do. Power	59,513					
Gas oil	349,529	412,573	524,853	630,789	745,959	822,995
Diesel oil	233,614	295,697	329,891	382,211	473,358	551,304
Fuel oil	1,116,299	1,523,739	1,826,031	1,790,068	1,926,311	1,842,170
Lubricating oil	43,965	50,527	46,148	49,292	53,215	71,047
Grease	713	708	837	827	924	1,348
Petroleum jelly	496	443	425	305	353	485
Ozokerite, etc.	600	526	736	730	737	1,028
Paraffin wax	3,134	3,728	4,212	3,542	4,756	4,831
Natural asphalt. . . .	942	396	548	838	734	1,692
Other asphalt	64,341	66,441	67,117	48,733	62,169	67,690
Faroe Islands—						
Motor spirit	1,029	1,325	1,530	1,684	1,887	n.a.
Kerosine	1,662	1,922	1,652	1,148	2,362	n.a.
Fuel oils	15,121	22,694	28,071	24,390	31,226	n.a.
Lubricating oil, etc. ..	386	396	427	409	434	n.a.
Finland—						
Crude Petroleum	—	—	—	212,575	870,556	1,072,737
Motor spirit	331,386	353,150	346,611	340,594	112,513	21,434
White spirit	2,808	2,827	5,636	3,293	3,660	3,650
Kerosine	18,820	18,117	22,140	17,949	20,842	17,415
do. Power	50,102	52,480	49,164	37,357	15,948	5,561
Fuel oil	488,352	642,299	893,778	1,208,295	876,412	720,281
Lubricating oil	27,818	22,842	26,524	28,281	20,740	26,493
Petroleum jelly	218	212	215	184	234	405
Paraffin wax	2,149	2,320	2,584	1,851	1,856	3,071
Asphalt, etc.	50,459	51,009	39,813	32,951	31,396	26,654
France—						
Crude petroleum	23,234,242	24,422,109	24,591,855	23,703,814	27,974,654	28,709,907
Aviation spirit	67,465	80,762	85,300	81,345	123,724	134,745
Motor spirit	176,331	330,832	348,660	472,170	520,106	475,812
Kerosine	7,759	8,481	11,049	36,279	13,708	3,659

(a) Including montan wax.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
France (cont.)—						
Lubricating oil ..	30,881	36,106	65,757	32,767	13,439	14,833
Fuel oil ..	273,894	260,073	354,320	880,551	486,411	921,860
Gas oil ..	4,930	1,569	70,887	748,269	332,551	230,421
Petroleum coke ..	47,840	72,295	72,241	70,732	68,961	60,075
Paraffin wax ..	632	1,290	3,220	5,409	2,077	2,492
Ozokerite and ceresin ..	4,252	4,727	4,643	5,809	4,634	4,329
Petroleum jelly ..	62	131	812	936	691	534
Natural asphalt and bitumen ..	3,979	2,799	2,981	3,588	3,642	2,267
Bitumen, etc. ..	1,084	2,282	458	736	497	4,415
Germany (Federal)—						
Crude petroleum ..	5,890,764	6,998,999	7,872,407	8,029,544	10,638,066	16,543,067
Aviation and motor spirits ..	99,415	211,046	456,116	420,586	424,263	416,891
Kerosine (a) ..	6,117	34,069	29,521	33,717	114,937	227,896
Gas and diesel oil ..	559,843	734,398	998,725	1,049,791	801,774	846,537
Fuel oil ..	576,952	1,603,757	3,175,930	3,842,671	4,766,253	3,587,682
Lubricating oil, etc. ..	70,018	107,646	116,914	128,955	107,138	143,111
Petroleum jelly ..	1,049	1,228	1,379	1,664	1,446	1,508
Paraffin wax ..	6,408	4,878	4,120	5,084	10,272	13,047
Ozokerite, etc. ..	918	1,131	482	240	500	982
Asphalt ..	7,087	6,544	8,475	7,533	9,179	10,613
Bitumen, etc. ..	7,051	24,983	53,579	60,829	89,511	148,460
Germany (East)—						
Crude petroleum ..	582,000	638,000	785,000	981,000	1,109,000	1,534,000
Greece—						
Crude petroleum ..	—	—	—	—	95,452	1,539,411
Aviation spirit ..	46,381	86,356	95,254	73,144	111,601	17,460
Motor spirit ..	227,584	212,323	165,729	160,663	161,725	19,935
Kerosine ..	94,791	93,598	102,837	103,568	116,869	16,411
Fuel oil and diesel oil ..	999,891	1,076,542	1,130,219	1,236,089	1,293,250	308,291
Lubricating oil, etc. ..	17,287	18,752	16,320	16,881	18,297	20,622
Petroleum jelly ..	95	90	81	108	124	n.a.
Asphalt and bitumen ..	40,271	20,828	r 10,251	r 17,471	21,884	4,556
Hungary—						
Crude petroleum ..	311,000	228,591	320,138	r 1,016,000	1,125,493	1,236,000
Motor spirit ..	27,213	10,823	35,793	27,901	9,894	n.a.
Kerosine ..	8,037	14,353	2,779	435	—	n.a.
Gas oil ..	—	20,648	21,777	40,648	—	n.a.
Fuel oil ..	41,797	58,073	111,940	144,167	56,158	58,323
Iceland—						
Aviation spirit ..	17,098	25,439	19,057	14,623	12,299	13,175
Motor spirit ..	36,460	30,342	32,450	47,675	40,225	45,882
White spirit ..	171	368	328	186	549	337
Kerosine ..	2,110	1,917	1,909	1,559	3,602	18,083
Gas oil and fuel oil ..	178,480	201,701	229,185	242,181	276,927	308,936
Lubricating oil ..	4,122	3,617	4,076	3,813	4,539	4,044
Greases ..	142	170	150	114	174	140
Paraffin wax ..	49	26	67	58	62	143
Petroleum jelly ..	11	—	10	17	5	2
Asphalt ..	1,019	108	789	547	352	560
Italy—						
Crude petroleum ..	15,568,759	16,601,955	17,798,434	19,595,986	22,207,338	24,359,085
Motor spirit ..	36,864	74,931	31,159	26,242	37,885	31,215
Kerosine ..	70	26	134	59	1,396	225
Gas oil ..	5,938	12,428	23,486	37,643	30,244	3,611
Fuel oil ..	640,683	441,078	640,679	674,351	235,303	592,052
Lubricating oil ..	56,009	52,886	44,529	46,322	40,498	43,899
Petroleum jelly ..	1,425	1,055	1,862	1,152	1,320	1,301
Paraffin wax ..	15,977	14,476	15,634	10,586	15,249	14,075
Pitch ..	31	93	103	177	181	282
Petroleum coke ..	52,812	43,099	52,992	65,714	41,712	54,430

(a) Including aviation turbine fuel.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Italy (cont.)—						
Ozokerite and ceresin ..	784	605	308	307	128	583
Asphalt, etc. ..	1,030	1,256	1,710	1,942	1,539	1,750
Netherlands—						
Crude petroleum ..	9,462,479	11,457,352	12,727,238	13,324,031	13,839,859	12,477,736
Motor spirit, etc. ..	168,403	169,317	193,553	191,110	151,924	118,304
Kerosine ..	147,725	161,073	167,681	156,973	199,433	193,684
Gas oil ..	329,363	622,383	1,048,680	1,033,460	894,431	1,108,850
Fuel oil ..	1,212,160	1,426,473	1,693,543	1,359,393	2,892,833	3,453,114
Lubricating oil ..	197,549	201,653	166,273	164,784	158,649	160,690
Petroleum jelly ..	1,630	2,426	3,168	3,515	2,787	2,855
Paraffin wax ..	30,794	40,176	44,005	18,424	22,601	28,301
Ozokerite and ceresin (a)	295	199	169	168	83	167
Pitch ..	6,418	9,041	14,231	14,310	11,919	20,184
Petroleum coke ..	—	—	18,918	9,353	14,767	11,662
Natural asphalt ..	1,332	1,020	1,169	1,276	1,147	985
Norway—						
Crude petroleum ..	71,691	94,914	78,113	113,661	83,120	105,214
Aviation spirit ..	14,677	17,726	20,605	24,398	23,016	29,283
Motor spirit ..	284,708	313,606	310,921	326,496	354,193	376,519
White spirit ..	7,235	11,701	11,027	13,697	12,972	13,943
Kerosine ..	39,150	49,395	61,915	65,980	83,029	76,532
Aviation turbine fuel ..	55,560	48,290	53,812	76,856	80,548	78,718
Diesel oil ..	286,122	386,479	408,412	399,102	395,623	427,142
Gas oil ..	459,760	545,310	634,677	523,540	675,052	711,943
Fuel oil ..	993,967	1,307,186	1,376,464	1,353,605	1,263,730	1,314,221
Lubricating oil ..	31,398	28,652	33,857	34,029	30,725	34,708
Paraffin wax ..	2,505	2,175	2,228	2,042	1,854	2,034
Greases (c) ..	1,607	1,491	1,878	2,067	1,828	1,465
Pitch ..	6,788	8,368	18,418	17,902	23,292	6,483
Petroleum coke ..	37,096	44,629	56,230	61,676	68,024	85,856
Asphalt, etc. ..	25,310	23,802	19,380	15,354	34,722	18,219
Poland—						
Crude petroleum ..	455,900	536,300	528,500	620,000	591,000	682,000
Portugal—						
Crude petroleum ..	696,130	896,108	960,565	1,090,826	1,133,554	1,242,219
Motor spirit ..	70,242	38,954	33,577	30,656	12,839	12,599
do. (b) ..	1,722	2,298	2,959	3,370	5,051	4,806
Kerosine ..	62,088	54,191	54,446	54,658	50,261	38,737
Aviation turbine fuel ..	1,815	—	—	30	118	49
Gas oil and diesel oil ..	104,594	141,002	118,325	130,370	141,455	145,366
Fuel oil ..	158,895	118,363	110,624	144,865	137,653	115,522
Gas, diesel, fuel oils (b)	156,265	160,115	164,950	127,979	164,340	203,717
Lubricating oil ..	17,572	19,427	24,488	25,489	24,057	26,801
do. (b) ..	1,648	1,842	1,951	1,800	2,119	2,547
Petroleum jelly ..	153	129	134	156	99	130
Paraffin wax ..	1,856	2,324	2,233	2,596	2,137	2,245
Ozokerite and ceresin ..	87	73	130	125	98	99
Bitumen ..	396	33	41	292	91	118
Natural asphalt ..	19,208	16,067	14,293	12,564	13,607	15,429
Spain—						
Crude petroleum, heavy	—	7,657	42,893	—	—	11
do. light ..	1,751,665	2,100,810	2,159,004	3,226,419	3,831,548	4,020,534
Motor spirit ..	219,352	187,280	205,361	248,237	213,312	204,436
Kerosine ..	53,171	80,786	77,008	69,913	32,472	53,713
Diesel oil ..	250,779	289,869	341,790	167,810	97,958	120,720
Lubricating oil ..	71,808	67,770	62,016	54,974	80,912	84,920
Fuel Oil ..	207,081	295,503	425,428	518,130	410,050	277,360
Petroleum jelly ..	94	115	473	402	893	295
Paraffin wax ..	2,738	2,377	1,098	584	2,247	568
Asphalt ..	69,925	82,453	118,368	124,688	68,961	90,327

(a) Including montan wax.

(c) Including petroleum jelly.

(b) Imported for bunkering of national ships.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Sweden—						
Crude petroleum ..	1,712,519	1,859,062	1,783,576	1,962,277	2,130,000	2,335,773
Motor spirit, etc. ..	828,702	910,391	1,079,578	1,190,000	1,257,000	1,250,197
White spirit ..	35,119	39,911	41,439	38,001	46,001	43,832
Kerosine ..	364,554	325,302	287,157	259,900	306,791	307,627
Fuel oil and gas oil ..	3,365,002	4,730,000	6,316,794	5,696,037	6,590,677	6,651,428
Lubricating oil and grease ..	62,380	84,402	100,813	96,152	92,237	101,633
Petroleum jelly ..	743	677	817	662	671	650
Paraffin wax ..	6,018	6,009	6,399	6,232	5,827	6,079
Ozokerite, ceresin, etc. ..	1,322	1,544	1,597	1,936	1,869	1,233
Asphalt ..	3,678	2,748	3,472	3,261	3,957	1,337
Pitch ..	15,603	15,175	17,551	8,665	7,227	6,435
Petroleum coke ..	8,381	7,322	12,596	8,868	6,893	6,188
Switzerland—						
Motor spirit ..	444,332	532,434	616,090	645,842	745,885	834,327
Kerosine ..	53,341	39,927	40,212	60,208	56,448	63,167
Gas oil ..	114,471	137,255	178,289	173,417	195,468	221,536
Fuel oil ..	967,199	1,140,950	1,621,302	1,618,192	1,897,803	1,885,866
Lubricating oil and grease ..	37,940	43,690	49,856	53,453	46,091	51,739
Petroleum jelly ..	975	1,180	1,093	1,403	759	1,086
Paraffin wax and ceresin ..	3,459	3,724	4,030	4,391	3,310	4,379
Asphalt and bitumen ..	844	527	1,057	553	962	1,172
U.S.S.R.—						
Crude petroleum ..	} <i>n.a.</i> }	565,700	1,486,000	1,310,400	1,061,500	1,066,000
Motor spirit ..		1,956,500	1,989,800	1,991,000	2,065,300	2,196,700
Kerosine ..		540,300	464,700	289,000	347,200	352,100
Diesel oil ..		641,500	680,500	293,900	442,100	352,900
Fuel oil ..		392,000	377,800	56,200	44,300	50,300
Lubricating oil and grease ..		107,500	88,800	86,100	97,300	126,500
Paraffin wax ..	30,100	27,300	29,800	26,600	28,900	
Bitumen ..	71,600	103,800	138,300	138,500	175,500	
Yugoslavia—						
Crude petroleum ..	442,180	475,396	572,216	638,804	619,135	609,314
Aviation spirit ..	36,715	19,506	20,022	17,594	23,676	30,508
Motor spirit ..	23,929	14,525	—	258	609	829
Kerosine ..	3,172	—	—	—	—	—
Aviation turbine fuel ..	—	—	—	14	—	8
Fuel oils ..	2,310	—	2,323	—	205	58,576
Lubricating oil ..	11,825	4,896	5,904	6,641	7,904	7,843
Greases ..	27	113	157	203	202	245
Paraffin wax ..	118	1,694	1,239	499	523	939
Petroleum jelly ..	174	501	191	300	278	748
Ozokerite and ceresin ..	86	269	202	70	112	134
Petroleum coke ..	—	3,149	3,504	2,972	7,342	6,698
Algeria—						
Aviation spirit ..	11,297	17,550	36,564	64,404	16,528	16,272
Motor spirit ..	251,664	303,388	343,428	409,582	266,761	290,883
White spirit ..	942	1,024	1,505	1,870	1,902	2,315
Kerosine ..	78,860	92,718	91,255	90,580	82,117	87,588
Gas oil ..	216,130	255,144	240,762	270,422	306,718	355,940
Fuel oil and diesel oil ..	286,185	317,818	246,360	261,726	296,897	432,862
Lubricating oil ..	21,403	27,250	29,673	32,038	27,378	32,719
Bitumen, etc. ..	46,904	52,078	47,326	59,324	67,501	81,862
Paraffin wax ..	487	410	461	422	601	580
Petroleum jelly ..	7	46	28	39	12	52
Ozokerite and ceresin ..	4	1	13	12	17	11
Natural asphalt, etc. ..	14	343	33	19	37	4,598
Mastic asphalt ..	5,828	4,291	3,425	4,146	3,968	3,495

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
(cont.)						
Angola—						
Motor spirit	38,789	42,380	44,253	51,707	29,387	28,162
Kerosine	5,596	6,615	8,549	8,626	9,732	8,867
Gas oil and fuel oil	32,125	46,197	75,511	85,397	76,054	78,702
Lubricating oil	4,415	4,313	6,042	6,985	6,744	6,458
Paraffin wax	6	30	15	16	13	23
Petroleum jelly	39	24	25	32	25	20
Belgian Congo—						
Motor spirit, etc.	189,406	207,688	201,171	218,626	212,832	187,279
White spirit	290	387	584	666	569	373
Kerosine	29,249	27,214	40,684	32,766	38,266	41,772
Fuel oil, etc.	130,237	138,342	157,904	171,553	189,917	183,800
Lubricating oil and greases	19,724	21,239	20,944	19,985	13,603	16,803
Petroleum jelly	49	49	101	94	64	69
Paraffin wax	136	188	70	65	104	118
Asphalt	908	4,415	2,663	1,111	995	1,664
Cameroon (French)—						
Motor spirit, etc.	45,525	51,906	r 45,300	49,973	53,300	55,405
Kerosine	12,622	12,765	r 13,542	14,468	16,097	15,191
Gas and fuel oil	15,829	18,135	r 21,132	22,447	25,766	25,036
Lubricating oil	2,962	3,675	2,999	r 2,969	3,694	4,303
Canary Islands—						
Crude petroleum	801,041	664,752	995,774	2,184,795	2,763,827	3,080,585
Motor spirit	9,431	2,108	1,989	10,441	9,903	10,018
Diesel (b)	693,605	54,800	168,475	227,617	38,339	97,542
Fuel oil (b)	638,901	10,105	—	222,854	3,996	—
Cape Verde Islands—						
Motor spirit	451	473	536	361	515	455
Kerosine	548	650	864	711	1,155	1,268
Fuel oil (b)	712,431	469,246	411,413	550,484	456,329	477,516
Ceuta—						
Motor spirit	7,994	14,787	6,942	21,296	8,849	7,859
Kerosine	1,488	1,927	656	1,966	457	3,112
Diesel (b)	143,571	109,758	230,183	279,256	136,313	136,662
Fuel oil (b)	210,939	564,745	330,885	447,080	372,735	384,079
Lubricating oil	2,008	2,609	2,120	2,124	2,188	2,797
Egypt—						
Crude petroleum	630,555	996,524	891,377	1,127,947	1,569,742	1,514,893
Motor spirit	55,360	45,601	28,291	34,703	16,748	20,769
White spirit	674	920	585	761	2,116	43
Kerosine	544,050	365,056	383,142	259,259	459,822	369,084
Fuel oil	550,593	676,428	602,041	361,303	259,765	426,664
Gas oil	86,037	38,316	83,528	73,619	84,333	110,224
Diesel oil	84,693	35,360	50,605	44,963	51,694	42,659
Lubricating oil	32,589	33,631	47,757	37,492	53,628	47,170
Petroleum jelly	478	611	601	461	889	568
Paraffin wax	841	1,055	1,074	1,844	2,048	1,102
Ozokerite and ceresin	75	87	59	95	75	212
Asphalt and bitumen	669	712	188	76	830	819
Ethiopia (a)—						
Aviation spirit	n.a.	n.a.	n.a.	n.a.	3,799	7,372
Motor spirit	49,985	45,456	54,338	62,115	72,604	85,584
Kerosine	6,795	3,422	4,213	4,108	4,064	3,572
Gas and fuel oils	14,296	8,798	6,892	22,573	15,937	14,273
Lubricating oil and grease	5,400	7,047	8,882	5,689	5,194	7,515
French Equatorial Africa—						
Aviation spirit	11,251	17,959	23,504	14,102	24,357	24,346
Motor spirit	35,980	36,237	45,195	46,712	43,522	47,234
Kerosine	10,765	10,111	11,639	11,727	12,930	15,180
Gas oil	23,038	17,014	31,494	36,999	49,757	53,499

(a) Years ended September 10.

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

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
French Equatorial Africa						
<i>(cont.)—</i>						
Fuel oil	4,535	5,418	4,990	9,918	7,812	8,671
Lubricating oil, etc. ..	2,915	5,542	4,906	6,058	6,437	5,998
French Somaliland—						
Motor spirit	845	2,246	5,019	2,397	2,232	2,290
Kerosine	3,323	876	167	794	676	658
Fuel oil, etc.	2,814	5,716	3,415	3,418	4,591	3,731
Lubricating oil	241	253	246	268	261	261
French Togoland—						
Motor spirit	4,223	6,108	5,505	5,251	5,784	6,851
Kerosine	4,167	3,141	4,182	4,762	4,695	5,559
Fuel oil	3,254	4,794	4,174	5,640	4,849	5,635
Lubricating oil	368	849	473	692	610	448
French West Africa—						
Aviation spirit	35,530	19,324	31,891	15,440	18,838	20,688
Motor spirit	104,352	138,799	153,931	185,569	181,443	183,759
Kerosine	51,604	53,997	61,685	71,248	58,478	61,698
Gas oil	45,085	55,278	64,798	74,014	63,273	70,665
Fuel oils	97,527	86,613	95,498	90,430	89,148	119,012
Lubricating oil	10,448	16,086	20,810	13,051	16,694	13,363
Liberia—						
Motor spirit	20,223	10,796	7,877	18,560	20,873	17,149
Kerosine	4,858	3,461	2,203	4,306	2,600	12,734
Diesel oil	5,588	5,577	6,947	6,590	22,810	17,767
Lubricating oil	619	759	1,076	1,478	1,344	1,040
Malagasy Republic—						
Aviation spirit	5,018	5,641	6,189	8,269	8,044	5,245
Motor spirit	41,388	47,662	49,777	47,141	50,114	48,226
Kerosine	12,099	11,013	15,471	12,768	16,730	15,299
Gas oil	22,419	26,614	29,188	33,575	39,415	43,102
Fuel oils	2,501	2,635	787	203	79	806
Lubricating oil	2,662	3,886	5,158	5,436	4,764	5,009
Road oil, etc.	5,348	7,720	8,741	12,485	3,639	3,927
Paraffin wax	1	162	79	178	80	25
Petroleum jelly	20	11	7	10	14	12
Asphalt and bitumen ..	2,264	94	218	296	37	69
Melilla—						
Motor spirit	3,802	3,825	4,081	6,833	3,904	3,790
Kerosine	1,242	2,605	2,473	3,111	1,153	1,216
Diesel oil	7,810	9,511	9,472	16,547	9,400	9,472
Fuel oil	3,162	—	9,405	26,058	5,119	5,127
Lubricating oil	826	839	878	1,700	423	809
Paraffin wax	23	31	23	41	52	82
Morocco—						
Crude petroleum	—	—	1,966	26,488	25,542	74,014
Aviation spirit	26,224	26,971	12,625	(a) 16,301	16,238	12,069
Motor spirit	310,807	339,533	298,418	(a) 202,974	197,922	181,905
White spirit	3,369	2,356	1,300	(a) 1,693	1,156	1,648
Kerosine	77,247	83,051	48,523	(a) 36,742	38,094	41,222
Gas oil	110,577	119,296	121,082	(a) 107,975	124,433	131,870
Fuel oil	147,034	172,485	157,684	(a) 157,443	171,789	178,981
Lubricating oil, etc. ..	19,784	19,482	15,550	(a) 12,038	16,024	14,761
Paraffin wax	3,856	4,624	4,496	(a) 4,321	4,455	5,637
Asphalt, bitumen, etc. ..	46,955	37,714	26,499	(a) 23,404	17,994	19,614
Mozambique—						
Motor spirit	27,251	30,005	31,332	32,021	32,335	34,929
Kerosine	13,754	14,498	16,863	17,371	18,429	19,104
Fuel oil	34,202	38,019	46,371	54,131	66,138	66,720
Lubricating oil	3,703	4,348	5,210	5,819	6,028	6,656
Paraffin wax	26	38	52	47	40	38
Petroleum jelly	29	28	68	24	31	27
Asphalt and bitumen (b)	3,451	3,176	3,893	5,242	8,939	6,025

(a) Morocco (Southern) only.

(b) Including coal tar and pitch.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Reunion—						
Motor spirit	6,924	8,889	10,855	11,481	13,900	13,561
Kerosine	1,297	1,829	1,388	2,158	1,748	2,205
Fuel oil, etc.	3,471	2,311	4,282	5,264	3,751	7,098
Lubricating oil	629	940	658	771	735	743
S. Tome and Principe—						
Motor spirit	813	1,201	1,009	735	1,195	1,101
Kerosine	324	453	671	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Fuel oil	263	339	727	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sudan—						
Aviation spirit (a)	17,726	20,731	24,650	29,289	22,634	19,449
Motor spirit	59,886	57,335	51,396	67,549	72,874	70,669
Kerosine	17,072	19,503	19,868	28,592	33,332	42,564
Gas oil	22,856	25,443	31,818	47,617	64,115	63,314
Diesel oil	24,543	27,605	27,283	25,139	20,384	21,257
Fuel oil	105,771	106,825	111,835	156,582	164,270	194,956
Lubricating oil, etc.	3,718	5,322	5,957	8,523	9,950	6,963
Asphalt and bitumen	2,188	3,395	3,551	5,797	6,036	2,755
Tunisia—						
Aviation spirit	172	90	147	571	297	} 77,001
Motor spirit	79,978	83,402	78,616	70,131	72,970	
Kerosine	34,329	36,524	37,855	34,502	37,074	41,266
Fuel oil	144,761	205,911	194,133	178,229	174,257	200,334
Gas oil	82,619	89,153	86,293	77,621	83,938	86,916
Lubricating oil	7,242	8,191	7,067	6,397	7,262	9,533
Petroleum jelly	44	6	—	—	10	25
Paraffin wax	90	79	58	62	111	60
Costa Rica—						
Motor spirit	42,757	38,864	43,979	51,854	49,111	47,776
Kerosine	4,624	5,805	6,838	7,888	7,778	7,758
Diesel oil, etc.	34,964	24,248	50,294	54,805	65,192	56,189
Fuel oil	48,313	40,837	52,036	31,636	20,891	9,276
Lubricating oil	4,185	3,103	2,720	3,868	5,540	4,213
Grease	268	224	274	343	291	227
Petroleum jelly	108	85	77	91	80	125
Paraffin wax	1,017	1,187	1,199	1,260	1,302	1,337
Asphalt	1,394	3,072	3,687	7,454	4,091	3,513
Cuba—						
Crude petroleum	388,359	445,461	444,583	915,504	2,030,833	<i>n.a.</i>
Motor spirit	330,621	374,512	416,450	254,153	122,129	<i>n.a.</i>
Kerosine	8,298	r 1,347	r 5,680	r 2,250	9,073	<i>n.a.</i>
Fuel oil	985,527	1,127,320	1,121,888	1,806,195	1,727,157	<i>n.a.</i>
Gas oil	29,635	53,202	39,813	39,049	21,144	<i>n.a.</i>
Lubricating oil	39,019	51,714	54,491	37,909	48,162	<i>n.a.</i>
Residual oils	66,042	84,046	138,140	80,797	28,723	<i>n.a.</i>
Petroleum jelly	634	589	805	540	764	<i>n.a.</i>
Paraffin wax	2,793	3,147	3,599	r 4,518	3,959	<i>n.a.</i>
Asphalt rock	25	26	54	15	153	<i>n.a.</i>
Other asphalt and bitumen	179	163	182	152	488	<i>n.a.</i>
Petroleum coke	1,799	2,288	834	4,990	188	<i>n.a.</i>
Dominican Republic—						
Aviation spirit	} 67,215	{ 8,056	{ 6,383	{ 11,044	{ 14,652	{ 9,268
Motor spirit		{ 69,667	{ 78,266	{ 79,368	{ 82,464	{ 80,293
Kerosine	8,258	12,316	11,650	9,035	12,373	11,776
Diesel oil	} 102,786	{ 62,843	{ 67,254	{ 63,579	{ 71,179	{ 51,891
Fuel oil		{ 109,096	{ 118,304	{ 134,417	{ 127,580	{ 177,633
Lubricating oil, etc.	5,654	7,227	6,919	10,711	7,841	7,204
Asphalt	<i>n.a.</i>	<i>n.a.</i>	18,832	19,600	2,451	15,875

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

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
French West Indies—						
Guadeloupe—						
Motor spirit	13,887	15,139	15,207	19,540	17,869	22,587
Kerosine	4,386	5,290	7,024	7,829	8,527	10,004
Gas and fuel oil	5,494	4,882	7,308	7,953	8,945	12,776
Lubricating oil	1,036	1,057	1,677	2,002	1,501	2,342
Martinique—						
Motor spirit	13,321	13,910	14,663	20,981	16,407	19,721
Kerosine	6,266	9,195	7,905	8,314	9,455	10,463
Gas and fuel oil	11,092	13,192	13,283	21,603	17,874	20,348
Lubricating oil	933	1,062	1,848	2,644	1,495	2,177
Greenland—						
Motor spirit	1,158	703	815	1,345	1,473	<i>n.a.</i>
Kerosine	1,213	942	1,001	1,361	1,039	<i>n.a.</i>
Fuel oil	8,124	36,205	21,010	24,309	34,813	<i>n.a.</i>
Lubricating oil	286	298	353	362	353	<i>n.a.</i>
Guatemala—						
Crude petroleum, etc.	143,289	170,294	150,399	154,166	156,058	179,000
Aviation spirit	4,918	6,731	10,692	5,844	5,331	} 116,000
Motor spirit	62,779	77,645	94,384	108,580	114,713	
Kerosine	13,039	13,844	16,072	20,646	22,404	22,000
Diesel oil	25,291	31,648	45,427	49,836	67,201	} 88,000
Fuel oil	2,651	3,138	3,096	2,509	4,144	
Lubricating oil	4,557	4,528	4,934	5,622	6,858	6,000
Grease	349	397	537	515	657	<i>n.a.</i>
Asphalt	4,057	18,074	11,181	11,880	17,377	19,000
Paraffin wax, etc.	3,396	2,843	3,467	3,561	3,850	4,000
Haiti (a)—						
Motor spirit	22,967	19,634	27,848	26,848	<i>n.a.</i>	<i>n.a.</i>
Kerosine	4,037	2,462	3,291	2,242	<i>n.a.</i>	<i>n.a.</i>
Fuel oil, etc.	16,448	6,721	12,356	9,312	<i>n.a.</i>	<i>n.a.</i>
Honduras—						
Crude petroleum	—	21,741	32,013	39,643	65,596	69,712
Motor spirit	95,056	79,869	32,341	39,311	41,892	38,782
Kerosine	2,331	2,946	4,521	4,908	6,629	7,353
Gas, diesel and fuel oils	24,019	34,921	76,197	101,579	72,897	71,848
Lubricating oil	} 2,421	} 2,301	} 2,668	2,729	5,339	5,914
Greases				362	304	341	374
Mexico—						
Crude petroleum	—	—	43	191,369	101,853	10,468
Aviation spirit	} 343,203	} 475,364	33,131	48,789	53,414	52,797
Motor spirit			465,366	581,306	241,303	103,349
Kerosine	77,121	166,077	216,710	288,210	76,056	799
Gas oil	177,790	325,509	332,856	294,169	137,623	21,843
Fuel oil	399,939	430,073	464,208	417,951	418,994	258,652
Lubricating oil	98,744	40,795	17,311	19,272	11,818	11,149
Grease	4,926	5,256	7,129	4,576	4,964	5,940
Paraffin wax	43,744	37,044	15,909	19,949	12,689	17,408
Petroleum jelly	665	1,010	1,048	1,059	896	1,396
Asphalt	2,877	1,820	844	1,304	1,552	4,589
Asphalt rock	5,460	8,173	256	1,636	1,657	2,729
Natural gas (<i>million cu. ft.</i>)	22,845	19,713	18,710	14,230	9,324	10,327
Netherlands Antilles—						
Crude petroleum	41,167,428	42,156,899	43,435,159	40,702,334	36,027,260	38,180,175
Aviation spirit	180,447	139,542	323,327	295,154	257,814	82,650
Motor spirit	640,183	948,651	1,090,746	1,151,164	1,484,502	754,098
Kerosine	11,792	1,327	9,812	125,759	65,183	42,173
Fuel oil	2,175,525	2,461,784	1,149,016	853,920	2,891,177	1,840,249
Diesel oil	32,752	263,212	202,176	135,464	150,144	239,613
Gas oil	298,290	165,650	447,944	634,137	696,733	446,942
Lubricating oil, etc.	770	2,775	2,062	2,746	2,651	3,368
Asphalt	83	—	—	1,394	—	—

(a) Years ended September 30.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Nicaragua—						
Aviation spirit	5,360	43,822	50,333	52,562	56,479	56,974
Motor spirit	31,601					
Kerosine	12,004	16,337	15,187	15,460	17,686	16,077
Fuel oil	51,210	65,424	52,409	63,194	116,277	81,284
Lubricating oil	3,355	5,352	3,435	3,291	4,052	3,708
Paraffin wax	473	751	844	723	915	692
Petroleum jelly	83					
Natural asphalt	<i>n.a.</i>	919	1,791	1,163	—	—
Panama Republic—						
Motor spirit	71,538	76,608	77,943	89,909	102,722	102,454
Kerosine	19,269	18,388	20,691	23,740	27,411	28,399
Diesel oil	27,963	34,925	31,858	46,348	50,489	64,476
Fuel oil	91,772	103,666	77,475	91,250	119,980	123,876
Lubricating oil	2,565	2,936	2,812	3,324	3,652	4,064
Paraffin wax etc.	261	121	105	126	235	227
Asphalt	1,313	1,946	2,988	2,194	<i>n.a.</i>	<i>n.a.</i>
St. Pierre and Miquelon—						
Motor spirit	3,000	5,546	5,747	499	429	437
Gas oil and fuel oil				9,341	9,973	8,307
Salvador—						
Motor spirit	52,883	58,951	66,353	70,789	75,256	73,530
Kerosine	14,176	15,149	16,903	22,326	25,761	29,040
Gas oil and diesel oil	16,233	13,766	16,721	19,794	21,482	24,220
Fuel oil	61,862	54,154	60,916	61,619	51,742	52,944
Lubricating oil	2,939	2,454	3,388	3,331	3,774	3,057
Grease	331	341	572	426	598	348
Paraffin wax, etc.	683	716	862	835	854	955
Petroleum jelly	134	40	66	128	97	208
Asphalt	3,556	3,217	7,080	4,952	5,531	7,934
United States—						
Crude petroleum	34,602,109	42,039,971	50,063,398	55,175,624	54,817,219	54,584,541
Aviation spirit	147	453	9,726	20,912	—	50,023
Motor spirit, etc.	135,453	575,709	817,749	1,264,678	2,978,302	2,041,739
Naphtha	4,708	6,863	30,225	31,402	364,831	363,180
Kerosine	2	5,626	29,446	15,922	4,287	15,879
Fuel oil	19,291,221	22,715,425	24,121,996	25,661,278	28,606,304	32,549,078
Gas oil and diesel oil	594,961	692,313	755,862	1,241,109	1,985,880	2,007,818
Unfinished distillates and topped oils	1,138,077	929,604	638,650	222,284	2,871,438	3,180,507
Lubricating oil, etc.	203	113	92	73	1,052	128
Road oil, etc.	9,126	1,875	116,001	370,607	366,680	267,504
Paraffin wax, etc.	434	39	15	24	810	2,634
Ozokerite and ceresin	406	632	1,008	1,274	1,937	2,660
Petroleum jelly	—	1	1	2	3	513
Asphalt (petroleum)	553,331	537,708	462,313	704,595	821,504	1,028,791
Natural asphalt and bitumen	3,789	4,454	3,675	3,546	22,153	3,366
Natural gas (<i>million cu. ft.</i>)	6,847	10,888	10,380	37,941	135,797	133,990
Argentina—						
Crude petroleum	3,586,421	3,655,060	4,344,243	6,056,679	6,550,211	6,374,095
Motor spirit	47,720	63,979	47,297	81,379	52,733	40,993
Kerosine	20,133	158,645	127,776	112,063	139,206	248,427
Gas oil	211,073	381,824	336,781	395,967	330,534	393,376
Fuel oil	2,038,995	2,535,897	3,283,931	2,230,538	1,399,230	1,555,257
Diesel oil	106,435	148,977	191,793	234,246	320,446	442,922
Lubricating oil	40,600	38,590	76,750	38,433	63,590	40,906
Grease	134	93	367	68	209	373

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Bolivia—						
Aviation spirit	11,969	6,089	6,476	5,786	9,746	10,895
Motor spirit	29,006	17,329	69	43	2	11
Kerosine	2,213	2,580	96	7	27	11
Fuel oil	10,619	8,207	2,011	8,339	712	11,980
Lubricating oil and grease	2,780	3,587	5,166	6,694	5,343	3,301
Paraffin wax, etc. ..	1,598	1,788	777	1,469	1,088	1,013
Tar, pitch, etc. ..	116	50	32	93	607	589
Brazil—						
Crude petroleum	140,150	3,457,572	4,811,892	4,769,580	5,563,200	5,651,472
Aviation spirit	214,420	224,442	261,368	260,610	292,271	293,209
Motor spirit	2,369,613	927,369	461,453	431,523	657,291	401,011
White spirit	25,529	14,403	2,506	1,291	705	1,071
Kerosine	529,975	537,852	589,541	385,304	304,611	222,370
Diesel oil	1,209,787	1,047,417	1,204,269	875,426	1,103,858	1,251,348
Fuel oil	2,000,715	2,156,839	1,753,857	1,558,403	1,654,250	1,227,811
Lubricating oil	205,164	195,931	190,266	183,008	152,825	180,102
Transformer oil	2,664	771	1,077	3,853	1,656	2,411
Petroleum jelly	2,863	1,043	1,329	1,816	898	1,582
Greases	379	177	39	77	127	108
Paraffin wax	15,117	7,029	10,242	11,381	10,113	10,359
Ozokerite and ceresin ..	149	44	74	142	81	136
Asphalt and bitumen ..	34,947	3,761	1,750	727	15,647	1,716
Chile—						
Aviation spirit	14,875	37,256	r 25,591	34,417	27,977	35,383
Motor spirit	312,830	252,810	r 83,314	r 49,187	48,524	17,554
Kerosine	136,500	152,370	138,736	163,807	85,209	150,772
Diesel oil	206,700	171,728	103,276	118,970	236,772	158,537
Residual fuel oil	902,500	r 1,056,498	r 794,880	r 682,284	790,038	1,821,914
Lubricating oil	25,340	r 32,156	r 32,604	r 29,671	30,931	28,091
Petroleum jelly	45	105	137	201	n.a.	n.a.
Greases	878	1,082	1,070	1,718	1,307	1,768
Paraffin wax	6,360	5,024	6,230	6,645	7,087	7,893
Natural asphalt	355	606	1,063	3,926	3,031	n.a.
Colombia—						
Aviation spirit	55,840	38,472	31,064	21,883	13,672	24,426
Motor spirit	371,160	267,813	256,019	204,829	24,263	9,253
Kerosine	95,281	62,395	54,796	38,323	3,703	5,090
Gas oil and diesel oil ..	74,286	65,324	47,663	33,403	4,223	166
Fuel oils	11,093	12,089	11,633	6,577	798	795
Lubricating oil	25,430	28,911	28,916	30,040	29,575	28,058
Petroleum jelly	407	432	343	506	388	393
Paraffin wax	23,387	23,733	22,050	24,227	14,433	19,519
Natural asphalt	11,288	5,069	3,723	3,648	94	3
Ecuador—						
Aviation spirit	7,863	n.a.	n.a.	n.a.	n.a.	n.a.
Motor spirit	n.a.	r 54,760	r 56,344	74,290	74,003	n.a.
Lubricating oil and greases	4,760	3,938	4,118	4,315	4,558	5,024
Petroleum jelly	80	73	57	48	109	53
Paraffin wax	2,726	2,359	2,686	3,026	2,839	2,811
Natural asphalt	4,316	4,945	9,227	303	2,625	8,257
French Guiana—						
Motor spirit	6,204	6,131	2,149	2,140	2,347	2,528
Kerosine			733	763	989	549
Fuel oil, etc.			2,299	1,966	2,671	2,282

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Paraguay—						
Motor spirit	<i>n.a.</i>	<i>n.a.</i>	29,000	31,000	35,000	<i>n.a.</i>
Kerosine	<i>n.a.</i>	<i>n.a.</i>	10,000	10,000	10,000	<i>n.a.</i>
Fuel oil, etc.	<i>n.a.</i>	<i>n.a.</i>	r 24,000	27,000	32,000	<i>n.a.</i>
Lubricating oil	<i>n.a.</i>	<i>n.a.</i>	1,700	1,800	2,400	<i>n.a.</i>
Peru—						
Aviation spirit	44,859	52,080	63,386	82,570	68,774	74,686
Kerosine	—	407	—	—	—	—
Lubricating oil	13,018	12,352	16,274	17,495	16,233	14,063
Petroleum jelly	86	105	75	136	84	141
Paraffin wax	4,460	5,320	5,252	6,095	6,118	6,152
Asphalt and bitumen	23	200	207	5,903	242	4,198
Greases	813	960	1,109	1,461	1,173	1,174
Ozokerite	6	2	4	3	5	8
Surinam—						
Motor spirit	8,117	9,097	10,669	11,557	12,127	<i>n.a.</i>
Kerosine	3,162	3,605	4,126	3,875	4,031	<i>n.a.</i>
Gas oil	7,948	5,857	7,938	104,618	86,184	<i>n.a.</i>
Diesel oil	17,111	18,694	19,834			
Fuel oil	68,767	61,342	66,757	1,433	1,509	<i>n.a.</i>
Lubricating oil	1,480	1,241	1,606			
Greases	165	269	307	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Paraffin wax	5	6	5	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Asphalt	929	970	2,657	2,050	1,653	<i>n.a.</i>
Uruguay—						
Crude petroleum	1,274,981	878,372	1,020,240	1,070,000	1,156,000	1,186,000
Motor spirit, etc.	3,700	30,000	8,000	7,000	46,000	19,000
Kerosine	<i>n.a.</i>	56,000	17,000	<i>n.a.</i>	—	9,000
Gas oil	9,200	5,000	60,000	76,000	49,000	86,000
Diesel oil	19,600	14,000	27,000	47,000	14,000	18,000
Fuel oil	29,300	74,000	227,000	224,000	90,000	240,000
Lubricating oil and greases	16,689	10,726	7,926	13,945	5,000	9,000
Paraffin wax	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	201	268	418
Venezuela—						
Motor spirit	97,767	r 54,374	38,006	20,878	195	<i>n.a.</i>
White spirit	5,235	r 14	17	58	39	<i>n.a.</i>
Gas oil	16,619	—	1	113	1	<i>n.a.</i>
Fuel oil	6,002	r 102	57	16	10	<i>n.a.</i>
Lubricating oil and grease	47,757	r 50,894	57,895	67,374	80,012	<i>n.a.</i>
Paraffin wax	3,630	r 2,546	3,835	4,444	3,968	<i>n.a.</i>
Petroleum jelly	170	r 138	148	156	379	<i>n.a.</i>
Asphalt, bitumen, etc. ..	1,845	2,391	786	2,092	1,185	<i>n.a.</i>
Burma—						
Motor spirit	7,605	75,270	82,258	r 26,743	13,176	10,869
Kerosine	5,202	17,737	23,817	2,658	1,805	10
Gas and diesel oils	6,313	44,731	58,024	r 45,229	28,873	24,224
Lubricating oil	8,681	10,148	17,477	r 6,722	12,201	15,318
Paraffin wax	864	200	<i>n.a.</i>	3	—	2
Asphalt	8,311	5,170	9,881	11,959	12,227	14,263
Formosa—						
Motor spirit	25,768	1,346	3,101	970	1,107	27
Fuel oil (incl. crude) ..	148,607	750,029	481,599	955,520	684,696	684,756
Lubricating oil	8,456	12,985	10,699	9,561	9,766	13,675
Grease	467	276	510	437	290	397
Petroleum jelly	58	34	141	84	199	5
Paraffin wax	1,685	660	1,371	1,513	1,147	1,052
Asphalt	377	585	158	42	—	16

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
Indo-China—						
Aviation spirit	46,752	}	(a)	(a)	(a)	(a)
Motor spirit	115,646					
White spirit	192					
Kerosine	48,077					
Gas oil	22,198					
Fuel oil	145,768					
Lubricating oil	9,890					
Grease	448					
Petroleum jelly	119					
Asphalt and bitumen	15,565					
Indonesia—						
Crude petroleum	2,097,393	2,635,950	2,523,967	3,225,420	1,237,433	1,144,503
Motor spirit	7,337	104,651	116,351	342,556	322,331	138,970
Kerosine	1,052	163	4,876	268	892	1,502
Fuel and gas oils	2,756	11,207	24,960	7,458	40,691	19,824
Lubricating oil	33,832	47,981	43,865	46,777	58,539	50,174
Paraffin wax	426	618	555	747	1,000	826
Petroleum jelly	981	1,794	1,212	1,065	1,792	1,505
Asphalt	11,942	16,061	29,413	40,661	11,177	32,182
Iran (b)—						
Lubricating oil	4,348	n.a.	17,324	12,813	17,586	n.a.
Paraffin wax	650	n.a.	726	536	950	n.a.
Petroleum jelly	261	n.a.	207	122	211	n.a.
Iraq—						
Crude petroleum (c)	1,245	415	2	30	23	n.a.
Motor spirit	901	313	47	19	3	n.a.
Kerosine	783	338	8	—	1	n.a.
Lubricating oil	11,929	16,977	24,690	16,938	3,272	n.a.
Greases	129	331	n.a.	n.a.	n.a.	n.a.
Israel (d)—						
Aviation spirit	3,389	n.a.	n.a.	n.a.	n.a.	n.a.
Motor spirit	168,401	193,692	216,796	189,155	183,321	n.a.
Kerosine	130,967	134,246	161,651	154,664	142,600	n.a.
Gas, diesel and fuel oils	755,139	861,524	896,327	914,420	1,059,909	n.a.
Lubricating oils	5,913	7,345	10,150	11,817	9,515	13,131
Paraffin wax	1,355	508	982	1,382	1,165	1,953
Petroleum jelly	—	16	26	78	96	82
Asphalt	514	615	381	361	62	235
Turpentine substitute	161	314	141	54	19	38
Japan—						
Crude petroleum	6,250,190	7,164,330	9,799,426	12,540,740	13,915,909	18,772,137
Aviation spirit	27,361	59,520	67,584	89,518	62,264	60,197
Motor spirit	281,613	180,656	34,888	17,664	13,789	2,338
Kerosine	21,937	31,125	2,803	12,972	731	2,447
Aviation turbine fuel	n.a.	n.a.	n.a.	3,637	4,687	15,139
Gas oil	68,688	186,427	90,328	96,918	40,043	54,712
Fuel oil	2,265,661	2,840,658	2,994,017	4,743,754	2,761,551	3,008,072
Lubricating oil	38,393	26,175	42,401	82,390	37,438	58,028
Grease	1,315	973	1,372	1,045	933	1,667
Petroleum jelly	1,725	1,354	3,068	3,095	2,092	3,513
Paraffin wax	649	820	1,730	947	1,099	2,207
Gilsonite	1,651	1,260	1,666	1,891	1,723	2,862
Asphalt and pitch	505	886	1,277	2,210	982	742
Petroleum coke	112,153	123,970	217,012	244,425	149,259	231,470

(a) See under Laos and Vietnam.

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

(c) As recorded in official trade returns. Probably fuel oil.

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

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Jordan—						
Crude petroleum ..	11,211	12,756	12,246	16,635	19,556	16,898
Motor spirit ..	24,539	29,533	35,156	36,107	33,267	45,231
Kerosine ..	25,037	32,006	39,732	33,944	36,144	41,082
Fuel oil, etc. ..	23,851	34,562	45,021	46,085	62,280	89,006
Lubricating oil ..	1,465	2,541	2,471	3,042	2,852	3,537
Natural asphalt ..	1,474	4,144	5,094	6,400	4,799	8,612
Laos—						
Aviation spirit ..		2,149	5,567	<i>n.a.</i>	<i>n.a.</i>	3,363
Motor spirit ..		3,887	8,428	<i>n.a.</i>	<i>n.a.</i>	13,701
Kerosine ..		1,135	1,937	<i>n.a.</i>	<i>n.a.</i>	1,649
Gas oil ..	(a)	1,156	1,906	<i>n.a.</i>	<i>n.a.</i>	3,984
Fuel oil ..		168	728	<i>n.a.</i>	<i>n.a.</i>	1,606
Lubricating oil ..		566	718	<i>n.a.</i>	<i>n.a.</i>	1,174
Lebanon—						
Crude petroleum ..	537,048	899,703	985,937	1,034,925	793,790	731,128
Motor spirit ..	116,309	118,428	114,334	129,763	122,305	146,724
Kerosine ..	35,546	37,133	41,725	49,157	62,645	77,582
Fuel oil ..	177,815	239,692	279,765	313,304	283,594	399,403
Lubricating oil ..	4,521	5,223	4,893	5,699	4,652	7,233
Paraffin wax ..	145	184	163	197	267	302
Natural asphalt ..	3,718	1,810	1,346	69	20,609	317
Philippine Republic—						
Crude petroleum ..	—	260,731	459,271	283,345	743,276	932,760
Aviation spirit ..	19,614	21,453	29,388	34,895	42,003	29,804
Motor spirit ..	439,946	348,980	382,636	320,932	329,921	324,731
Kerosine ..	147,710	131,717	158,155	132,649	138,586	117,654
Diesel oils ..	378,589	610,230	294,281	353,412	356,796	316,293
Fuel oil ..	495,962	329,311	353,689	430,741	361,115	278,314
Lubricating oils ..	40,558	40,518	40,023	39,697	39,968	44,355
Grease ..	2,625	2,143	9,524	2,958	2,272	4,035
Petroleum jelly ..	2,004	6,400	1,120	1,160	1,274	1,693
Paraffin wax ..	4,957	5,883	3,190	5,081	5,327	4,766
Asphalt ..	3,418	24,818	13,319	27,890	38,646	15,842
Portuguese India—						
Motor spirit ..	6,613	10,885	11,942	25,391	<i>n.a.</i>	<i>n.a.</i>
Kerosine ..	5,093	5,458	6,257	10,556	<i>n.a.</i>	<i>n.a.</i>
Lubricating oils ..	489	778	1,174	1,160	<i>n.a.</i>	<i>n.a.</i>
Other oils ..	5,350	6,797	7,438	14,916	<i>n.a.</i>	<i>n.a.</i>
Syria—						
Motor spirit ..	91,131	r 83,603	97,303	94,296	51,824	25,745
Kerosine ..	56,124	r 56,046	64,177	r 69,868	40,857	31,586
Fuel oil and diesel oil ..	322,999	354,396	429,586	419,982	509,282	408,762
Lubricating oil ..	7,221	10,707	9,715	11,113	13,221	10,467
Natural asphalt ..	984	r 506	2,886	975	161	869
Thailand—						
Aviation spirit ..	108,593	{ 34,031	19,079	11,982	—	9,011
Motor spirit ..		{ 116,180	214,367	277,166	265,474	298,395
Kerosine ..	84,058	{ 79,141	93,133	83,584	88,972	96,882
Gas, diesel and fuel oils ..	127,695	{ 177,771	413,956	461,921	492,640	520,955
Lubricating oil ..	18,647	{ 24,743	26,021	32,346	23,604	26,833
Grease ..	1,183	{ 1,163	1,352	1,773	1,223	1,843
Paraffin wax ..	<i>n.a.</i>	{ 1,277	1,016	1,603	1,223	1,160
Petroleum jelly ..	<i>n.a.</i>	{ 745	624	725	521	812
Asphalt ..	7,001	{ 23,778	22,672	28,655	14,046	34,062
Turkey—						
Motor spirit ..	298,603	288,105	222,107	265,652	193,392	418,636
Kerosine ..	235,688	229,605	201,605	250,453	210,456	374,231
Gas and diesel oils ..	315,030	348,698	295,992	435,121	354,702	619,559
Fuel oil ..	27,793	24,359	27,036	25,582	18,842	36,550
Lubricating oils and grease ..	52,440	50,790	43,288	57,334	69,117	69,599

(a) See under Indo-China.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959		
OTHER COUNTRIES								
<i>(cont.)</i>								
Turkey <i>(cont.)</i> —								
Paraffin wax	1,326	1,314	436	145	524	1,459		
Petroleum jelly	191	116	122	147	162	161		
Asphalt	16,387	9,766	136	46	432	1,970		
Vietnam—								
Aviation spirit	(a)	144,332	4,275	17,007	5,290	1,463		
Motor spirit			123,821	136,148	213,118	157,209		
Kerosine			47,762	54,582	76,623	66,500		
Gas oil			19,110	29,913	45,662	53,033		
Fuels oils			112,625	129,022	118,774	182,458		
Lubricating oils and grease			6,565	7,094	11,197	11,269	n.a.	
Petroleum jelly			64	103	127	86	n.a.	
Paraffin wax			2,421	1,873	2,078	2,713	n.a.	
French Polynesia—								
Motor spirit			9,006	3,453	2,948	3,581	3,106	13,306
Kerosine	1,280	1,680		1,676	1,512			
Other oils	5,806	5,948		7,645	8,125			
New Caledonia—								
Motor spirit	8,544	10,331	11,850	14,317	14,302	14,665		
Kerosine	2,496	2,684	3,095	3,299	3,865	3,640		
Gas and fuel oils	7,735	14,347	21,829	31,992	25,993	19,225		
Lubricating oil, etc. ..	893	857	1,160	1,523	7,237	35,636		

(a) See under Indo-China.

PHOSPHATES
PRODUCTION OF PHOSPHATE-ROCK
(Including Apatite)

Producing Country	Estimated Tribasic Phosphate of Lime Content or equivalent										Long tons	
	1954	1955	1956	1957	1958	1959	1954	1955	1956	1957		1958	1959
COMMONWEALTH COUNTRIES												
Seychelles (a) (b) ..	11,676	785	4,123	6,136	16,540	5,526	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Somaliand Protectorate (a) (b) ..	—	239	196	—	—	217	—	90	74	—	—	82
Southern Rhodesia (c) ..	811	1,736	—	2,527	—	1,676	n.a.	—	—	—	—	n.a.
Tanganyika (c) ..	60	103	3	3	—	1,187	n.a.	n.a.	2	—	—	n.a.
Uganda (d) ..	2,867	3,160	2,914	3,256	2,474	3,124	1,500	1,600	1,500	1,600	2	1,600
Union of South Africa—												
Phosphate rock (h) ..	93,008	133,721	154,316	166,433	213,087	228,005	32,600	59,000	71,000	82,000	110,000	92,000
Guano ..	4,932	4,909	4,092	(g) 3,757	(g) 3,853	(g) 4,244	1,200	1,200	1,000	n.a.	n.a.	n.a.
Jamaica (c) ..	714	477	385	101	130	27	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Christmas Island (b) ..	350,960	390,226	340,611	335,569	373,750	494,347	298,000	332,000	290,000	285,000	318,000	420,000
India (d) ..	2,292	5,562	8,785	9,178	14,572	13,808	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Sarawak (c) ..	620	402	385	465	306	619	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Australia ..	6,120	6,371	6,788	11,430	7,421	4,775	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Nauru Island (b) ..	1,178,150	1,401,250	1,332,600	1,105,250	1,234,450	1,192,240	1,013,000	1,205,000	1,146,000	951,000	1,062,000	1,025,000
Ocean Island (b) ..	292,200	308,850	297,150	292,150	323,800	314,392	251,000	266,000	255,000	251,000	278,000	270,000
TOTAL ..	1,944,000	2,258,000	2,152,000	1,936,000	2,190,000	2,264,000						
OTHER COUNTRIES												
Belgium (e) ..	34,716	19,290	13,414	15,854	17,724	12,973	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
France (e) ..	116,510	100,872	89,243	91,803	101,697	54,000	31,000	26,000	22,000	11,000	11,000	6,000
Spain ..	21,873	23,060	8,480	186	3,236	1,163	14,000	15,000	5,500	2,100	2,100	800
U.S.S.R. (f)—												
Apatite ..	3,100,000	3,445,000	3,690,000	3,940,000	3,940,000	3,940,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Phosphate rock ..	1,330,000	1,425,000	1,575,000	1,720,000	1,970,000	1,970,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

(a) Phosphatic guano.

(b) Exports.

(c) Bat guano.

(d) Apatite.

(e) Including phosphatic chalk.

(f) Estimated by United States Bureau of Mines.

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

(h) Including apatite and aluminium phosphates.

PRODUCTION OF PHOSPHATE ROCK (cont.)

Long tons

Producing Country	Estimated Tribasic Phosphate of Lime Content or equivalent											
	1954	1955	1956	1957	1958	1959	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES												
<i>(cont.)</i>												
Algeria	746,000	740,000	596,000	595,820	552,000	563,000	470,000	474,000	375,000	375,000	370,000	370,000
Egypt	526,245	636,466	605,000	576,000	549,000	475,000	326,000	395,000	375,000	357,000	340,000	295,000
French West Africa—												
Phosphate rock ..	5,400	5,400	5,200	—	—	—	4,200	4,200	4,100	—	—	—
Aluminium phosphates ..	72,000	102,802	67,100	88,441	102,928	93,834	46,000	65,000	43,000	56,000	65,000	59,000
Malagasy Republic ..	1,321	1,827	3,207	3,459	2,000	9,000	n.a.	1,640	n.a.	n.a.	n.a.	n.a.
Morocco	4,940,200	5,244,693	5,434,608	5,479,388	6,235,756	7,050,365	3,557,000	3,776,000	3,913,000	3,945,000	4,490,000	5,080,000
Mozambique (f)	—	1,856	224	441	118	90	—	n.a.	n.a.	n.a.	n.a.	n.a.
Tunisia	1,794,563	2,165,987	2,044,021	2,034,674	2,242,546	2,151,000	1,167,000	1,408,000	1,329,000	1,323,000	1,458,000	1,398,000
Netherlands Antilles (b) ..	118,923	92,725	101,206	91,338	91,633	96,615	87,000	68,000	74,000	67,000	67,000	71,000
United States (e)	13,821,100	12,265,248	15,747,000	13,976,000	14,879,000	15,869,000	9,526,000	8,492,000	10,837,000	9,517,000	10,199,000	10,791,000
Brazil (d) (g)	(c)15,000	123,000	123,000	123,000	143,589	(c)250,000	8,500	71,000	71,000	71,000	83,000	140,000
Chile—												
Apatite	41,177	51,504	58,125	19,074	(g)40,000	(c)40,000	21,000	26,700	29,200	11,200	24,700	24,700
Guano	43,000	41,000	24,000	34,000	31,000	21,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Peru (f)	289,000	285,000	331,000	280,000	164,000	(a)98,000	70,000	70,000	80,000	70,000	40,000	25,000
Venezuela	—	—	29,723	146,000	n.a.	—	—	—	16,000	77,000	—	—
China (d)	(g)36,980	(g)40,000	(g)24,300	n.a.	n.a.	n.a.	26,000	49,000	17,500	n.a.	n.a.	n.a.
Israel	56,572	70,705	115,295	148,000	206,226	201,500	35,000	44,000	72,000	90,000	128,000	125,000
Jordan	73,666	161,014	205,263	257,761	289,296	440,000	54,000	118,000	150,000	188,000	211,000	320,000
Philippine Republic (f) ..	1,800	148	7,762	3,685	7,116	373	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Vietnam (North)	n.a.	n.a.	55,000	87,000	16,900	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Angaur Island	93,846	76,882	—	—	—	—	63,000	52,000	—	—	—	—
French Polynesia (Makatea) ..	290,000	221,000	255,000	303,600	320,000	362,000	238,000	181,000	209,000	249,000	262,000	297,000
TOTAL	27,570,000	27,340,000	31,210,000	30,000,000	32,000,000	34,000,000	—	—	—	—	—	—
WORLD'S TOTAL	29,510,000	29,600,000	33,360,000	32,000,000	34,000,000	36,000,000	—	—	—	—	—	—

Phosphate rock is also known to have been produced in Poland, Indonesia and North Korea.

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

PRODUCTION OF SUPERPHOSPHATES

Long tons

Producing Country	Estimated P ₂ O ₅ Content						1959	1958	1957	1956	1955	1954
	1954	1955	1956	1957	1958	1959						
COMMONWEALTH COUNTRIES												
United Kingdom—												
Single	873,068	870,541	940,872	890,335	760,570	682,372	760,570	890,335	178,800	167,700	170,300	136,500
Concentrated*	n.a.	n.a.	n.a.	(c) 97,000	114,906	151,241	114,906		n.a.	n.a.	n.a.	66,000
Union of South Africa*—												
Single	496,118	545,811	r 557,067	603,705	663,455	631,610	663,455	603,705	105,800	103,700	94,300	120,000
Canada*—												
Single	194,858	184,286	179,358	184,401	170,010	199,845	170,010	184,401	35,900	36,900	39,000	40,000
India—												
Single	105,056	74,165	81,000	142,000	167,000	248,000	167,000	142,000	13,000	11,900	16,800	40,000
Concentrated*	—	—	188	92	50	—	50	—	80	—	—	—
Pakistan—												
Single	n.a.	n.a.	n.a.	1,024	1,423	n.a.	1,423	1,024	n.a.	n.a.	n.a.	n.a.
Australia—												
Single (a) ..	1,771,277	1,956,735	1,916,237	1,975,015	2,219,592	2,150,413	2,219,592	1,975,015	421,600	430,500	389,700	473,100
New Zealand —												
Single (b) ..	878,700	947,002	r 898,645	r 843,139	767,197	906,685	767,197	843,139	179,700	189,400	175,700	181,300
TOTAL									1,000,000	1,000,000	900,000	1,060,000
Irish Republic*—												
Single	170,144	166,535	146,058	122,263	191,094	202,746	191,094	122,263	26,300	28,300	28,900	36,200
OTHER COUNTRIES												
Austria*—												
Single	15,000	49,777	42,291	43,600	119,230	133,899	119,230	43,600	7,600	8,800	2,500	24,100
Belgium*—												
Single	182,598	115,755	194,836	(c) 172,000	191,266	201,821	191,266	(c) 172,000	32,500	19,500	29,200	34,700
Concentrated ..	40,092	43,867	29,446	(c) 28,900	53,525	58,289	53,525	(c) 28,900	12,400	18,400	16,800	25,600

* 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	1954	1955	1956	1957	1958	1959	Estimated P ₂ O ₅ Content				
							1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)											
Czechoslovakia—											
Single	271,000	312,000	324,000	362,000	n.a.	n.a.	46,000	53,000	55,000	62,000	n.a.
Denmark (a)—											
Single	422,470	350,971	344,192	301,929	218,811	168,127	76,000	63,200	62,000	54,300	39,400
Finland—											
Single	68,963	90,200	135,916	113,207	153,300	222,394	12,600	16,500	25,100	20,900	29,100
Kotka-phosphate	233,500	205,600	189,127	237,762	n.a.	143,520	42,800	37,600	35,000	44,000	n.a.
France—											
Single	1,053,700	1,055,100	1,068,509	1,138,965	1,220,591	1,149,903	179,000	179,000	182,000	194,000	208,000
Concentrated*	29,855	29,008	30,967	32,461	49,931	54,407	14,200	13,400	14,700	14,600	21,200
Germany (Federal)*—											
Single	434,851	444,273	448,012	431,873	457,201	444,828	73,900	75,600	76,200	73,800	76,800
Germany (East)—											
Single	290,000	286,000	391,000	399,000	409,000	427,000	52,200	51,500	70,300	71,800	73,700
Greece*—											
Single	183,405	211,285	138,237	193,448	209,574	207,396	29,300	33,800	22,200	30,900	33,500
Concentrated	5,818	4,387	13,884	—	—	—	2,500	1,900	5,600	—	—
Hungary—											
Single	166,091	155,745	147,418	162,295	n.a.	227,249	26,600	24,900	23,600	26,000	36,400
Italy—											
Single	1,988,750	1,944,106	1,867,915	1,822,814	1,721,650	1,732,434	379,500	376,200	352,300	349,600	337,000
Concentrated	—	—	—	—	—	—	—	—	—	—	—
Netherlands*—											
Single	467,589	438,592	418,400	407,880	436,150	498,897	82,300	77,200	74,700	73,800	79,900
Concentrated	92,385	102,812	96,154	106,060	113,796	100,443	39,900	45,200	42,200	46,000	47,700
Norway—											
Single	121,595	91,489	108,040	58,305	66,000	58,000	21,900	16,500	19,400	10,500	10,000
Concentrated*	—	—	—	28,120	18,005	39,332	—	—	—	9,700	11,000
Poland (b)—											
Single	487,700	515,000	470,000	518,000	572,000	621,000	80,000	85,000	78,000	85,000	102,000

* Source: International Superphosphate Manufacturers' Association.

(a) In addition the following amounts of potash superphosphate were produced (long tons): 1954—25,038; 1955—102,540; 1956—168,369; 1957—256,843; 1958—356,920; 1959—417,237.

(b) In addition the following amounts of superbasic slag were produced (long tons): 1954—114,500; 1955—127,100; 1956—114,500; 1957—136,000; 1958—148,000; 1959—166,000.

PRODUCTION OF SUPERPHOSPHATES (cont.)

Long tons

Producing Country	1954	1955	1956	1957	1958	1959	Estimated P ₂ O ₅ Content													
							1954	1955	1956	1957	1958	1959								
OTHER COUNTRIES (cont.)																				
Portugal—																				
Single ..	363,525	392,469	377,413	434,785	385,453	409,472	65,400	70,600	67,900	78,300	69,400	73,700								
Concentrated ..						n.a.	4,000	8,000	10,000	13,000	14,000	n.a.								
Roumania—																				
Single ..	23,000	45,000	54,000	74,000	79,000		4,000	8,000	10,000	13,000	14,000	n.a.								
Spain—																				
Single ..	1,433,428	1,440,899	1,543,150	1,532,778	(a)1,743,000	(a)1,950,000	236,700	238,600	257,700	258,700	294,300	329,200								
Sweden*—																				
Single ..	539,880	523,126	512,729	488,442	461,509	484,825	102,600	100,400	100,100	96,000	89,100	93,900								
Concentrated ..						6,960						2,400								
Switzerland*—																				
Single ..	9,488	15,600	16,200	18,600	27,500	40,000	1,700	2,800	2,900	3,300	4,900	7,000								
Concentrated ..				(c) 100	344						45	150								
U.S.S.R. (c)—																				
Single ..	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	500,000	500,000	500,000	500,000	500,000	500,000								
Concentrated ..																				
Yugoslavia—																				
Single ..	78,143	126,094	162,598	212,399	260,742	125,703	15,000	24,000	31,000	40,000	50,000	24,000								
Concentrated ..																				
Canary Islands—																				
Single ..	20,786	21,942	24,820	26,023	(b)	(b)	3,000	4,000	4,000	4,000	(b)	(b)								
Egypt—																				
Single ..	148,067	134,886	154,044	174,676	164,169	163,904	23,000	20,600	23,700	26,900	24,900	24,600								
Algeria—																				
Single ..	129,029	116,473	78,280	96,240	99,000	n.a.	20,600	18,600	12,500	15,400	16,000	n.a.								
Morocco—																				
Single ..	94,428	89,000	n.a.	76,000	99,000	n.a.	15,000	14,000	n.a.	12,000	16,000	n.a.								
Tunisia—																				
Single ..	48,000	45,000	26,000	28,000	32,000	n.a.	8,000	7,000	4,000	4,000	5,000	n.a.								
Concentrated ..	48,000	71,000	78,000	99,000	107,000	122,000	21,000	31,000	34,000	43,000	46,000	52,000								
Cuba*(c)—																				
Single ..	30,000	30,000	30,000	40,000	40,000	40,000	5,000	5,000	5,000	7,000	7,000	7,000								
Mexico*—																				
Single ..	64,993	64,600	76,031	83,250	(c) 84,000	(c) 40,000	12,800	12,900	14,800	16,200	16,300	8,000								

*Source: International Superphosphate Manufacturers' Association.

(a) Including Canary Islands.

(b) Included with Spain.

(c) Estimated.

PRODUCTION OF SUPERPHOSPHATES (cont.)

Long tons

Producing Country	Estimated P ₂ O ₅ Content											
	1954	1955	1956	1957	1958	1959	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)												
United States*—												
Single	8,198,608	7,767,416	7,380,836	6,845,281	6,420,361	66,922,130	1,475,800	1,398,100	1,328,600	1,232,200	1,155,700	1,246,000
Concentrated ..	968,618	1,401,952	1,494,876	1,649,820	1,653,839	1,653,821	435,900	630,900	672,700	742,400	744,200	744,200
Brazil*—												
Single	70,000	64,000	a 774,000	r 74,000	129,734	a 150,000	13,000	12,000	13,000	13,000	23,400	27,000
Columbia*—												
Single	2,000	2,000	2,000	n.a.	n.a.	n.a.	400	400	400	n.a.	n.a.	n.a.
Uruguay*—												
Single	17,000	25,600	29,500	29,500	30,000	(a) 30,000	3,400	5,100	6,500	6,500	6,500	6,500
Formosa—												
Single*	76,816	78,922	99,123	101,969	102,170	116,875	13,800	14,200	17,800	18,400	18,400	21,000
Israel—												
Single	75,353	r 99,693	r 93,983	104,115	67,440	57,170	10,300	15,000	15,300	16,800	11,200	10,000
Concentrated ..	—	—	—	—	15,788	6,840	—	—	—	—	6,500	2,900
Japan*—												
Single	1,690,892	1,765,507	2,019,264	1,827,826	1,715,441	1,784,327	289,100	308,200	353,400	317,300	298,300	309,800
Concentrated ..	1,203	1,035	2,891	1,731	968	3,150	500	400	1,200	700	400	1,200
Lebanon*—												
Single	—	—	—	—	10,300	26,216	—	—	—	—	2,000	5,000
Turkey—												
Single	20,252	17,901	10,028	7,437	5,049	64,023	3,500	3,100	1,800	1,100	800	9,600
TOTAL							4,000,000	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000
WORLD'S TOTAL ..							5,000,000	6,000,000	6,000,000	6,000,000	6,000,000	6,000,000

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

*Source: International Superphosphate Manufacturers' Association.

(b) Including enriched superphosphate.

(a) Estimated.

PRODUCTION OF BASIC SLAG

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Great Britain (a) ..	540,833	483,300	615,392	619,712	648,768	646,097
OTHER COUNTRIES						
France	1,376,912	1,679,445	1,729,207	1,816,881	1,889,333	2,007,244
Germany (Federal) ..	1,796,000	2,324,000	2,463,000	2,515,000	2,325,000	2,635,000
Germany (East) ..	80,000	74,000	75,000	81,000	<i>n.a.</i>	<i>n.a.</i>
Italy	56,365	63,200	54,895	74,617	80,700	78,016
Luxemburg	551,933	673,136	732,690	724,500	674,199	704,648
Saar	440,627	503,933	532,162	549,374	562,435	<i>n.a.</i>
Sweden	14,103	18,249	14,988	r 49,163	52,155	<i>n.a.</i>

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

(a) Years ended June 30 of that stated.

EXPORTS OF PHOSPHATES, ETC.

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Phosphatic fertilizers ..	2,769	2,612	1,111	1,313	1,058	166
Seychelles—						
Phosphatic guano ..	11,676	785	4,123	6,136	16,540	5,526
Somaliland Protectorate—						
Phosphatic guano ..	—	239	196	—	—	217
South West Africa—						
Phosphatic guano ..	582	1,471	—	2,517	—	762
Uganda—						
Phosphates ..	2,867	3,105	2,399	2,641	2,630	3,121
Union of South Africa—						
Superphosphates ..	36,058	38,625	24,517	22,145	4,200	540
Canada—						
Phosphatic fertilizer ..	171,503	(£6,330,387)	(£5,639,337)	(£4,848,807)	(£4,531,308)	(£8,510,822)
Christmas Island (b)—						
Phosphate-rock ..	350,960	390,226	340,611	335,569	373,750	494,347
Hong Kong—						
Phosphatic fertilisers ..	—	—	—	—	30,340	—
Malaya—						
Phosphatic fertilizers ..	116	32	12	138	63	62
Australia (a)—						
Superphosphates ..	1,605	2,137	1,727	1,742	2,064	1,919
New Zealand—						
Superphosphates ..	18	r 38	48	95	81	93
Nauru Island—						
Phosphate-rock ..	1,178,150	1,401,250	1,332,600	1,105,250	1,234,450	1,192,240
Ocean Island—						
Phosphate-rock ..	292,200	308,850	297,150	292,150	323,800	314,392
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Phosphate-rock ..	7,003	71	880	836	3,329	3,204
Superphosphates—						
Single ..	105,839	63,654	96,614	65,948	130,458	95,835
Concentrated ..	30,920	33,551	25,257	29,885	45,047	58,506
Di-calcium phosphate	107,143	133,560	135,894	148,287	185,206	200,018
Basic slag ..	1,081,764	1,184,450	1,331,408	1,501,980	1,393,917	1,499,170
France—						
Phosphate-rock ..	314	1,353	36	140	839	1,956
Superphosphates ..	21,705	22,019	15,603	23,362	17,971	28,921
Basic slag ..	281,485	301,841	283,239	355,771	334,550	344,662
Di-calcium phosphates	4,093	824	932	1,086	1,751	940
Germany (Federal)—						
Phosphate-rock ..	—	1	—	99	12,643	16,142
Superphosphates ..	21,005	11,142	16,308	12,433	9,069	14,413
Basic slag ..	44,612	121,009	92,497	146,215	175,589	370,229
Other phosphatic fertilizers ..	7,577	13,830	10,501	11,993	3,898	4,875
Hungary—						
Superphosphates ..	1,203	26,866	25,098	22,010	37,086	116,920
Italy—						
Superphosphates ..	108,352	70,507	92,463	122,655	135,135	130,146
Netherlands—						
Superphosphates ..	278,419	305,535	319,782	344,519	372,478	413,186
Norway—						
Superphosphates ..	—	2,188	4,529	5,019	9,754	20,000
Portugal—						
Superphosphates ..	21,428	12,958	21,676	12,205	15,122	34,453

(a) Years ended June 30 of that stated.

(b) Including exports to Federation of Malaya.

EXPORTS OF PHOSPHATES, ETC. (cont.)

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
Spain—						
Superphosphates, etc. . .	241	234	145	102	9,169	57,856
Sweden—						
Superphosphates . . .	—	165	4,110	—	4,029	14,258
Basic slag	10,296	9,767	21,404	24,883	17,224	33,439
U.S.S.R.—						
Apatite ore	<i>n.a.</i>	88,400	80,600	42,000	98,900	91,600
do. concentrates . . .	<i>n.a.</i>	884,500	1,106,000	1,241,800	1,480,900	1,634,500
Superphosphates . . .	<i>n.a.</i>	47,400	62,600	119,600	93,500	117,200
Algeria—						
Phosphate-rock	676,673	711,706	569,477	563,766	582,275	490,186
Superphosphates . . .	9,367	4,742	6,096	7,925	2,170	1,755
Egypt—						
Phosphate-rock	388,839	414,304	408,536	373,716	416,579	441,641
French West Africa—						
Phosphate rock	7,799	11,023	5,532	6,899	} 60,371	} 69,371
Aluminium phosphates	52,451	64,392	56,940	64,359		
Malagasy Republic—						
Phosphate rock	1,142	—	2,584	3,396	1,968	8,859
Morocco—						
Phosphate-rock	4,865,526	5,165,153	5,472,398	5,304,574	6,173,749	6,948,240
Hyperphosphates . . .	<i>n.a.</i>	<i>n.a.</i>	4,439	14,932	8,842	983
Tunisia—						
Phosphate-rock	1,895,133	1,888,283	1,747,733	1,708,710	1,923,949	1,827,936
Hyperphosphates . . .	76,176	42,897	100,887	103,722	92,229	101,690
Superphosphates . . .	53,418	61,236	71,650	90,040	115,831	108,213
Netherlands West Indies—						
Phosphate-rock	124,654	109,240	103,579	105,384	85,269	96,611
United States—						
Phosphate-rock	2,385,013	2,267,648	2,880,484	3,126,215	2,818,073	3,239,722
Superphosphates, Single	} 390,834	} 376,614	324,701	271,357	195,967	140,917
Concentrated			169,324	290,067	314,423	271,714
Angaur Island—						
Phosphate-rock	93,846	76,882	—	—	—	—
French Polynesia (Makatea)—						
Phosphate-rock	225,280	222,608	260,742	300,400	304,370	305,672
Israel—						
Phosphate rock	4,885	30	29,623	20,881	58,483	91,573
Japan—						
Superphosphates	143,887	206,001	320,263	195,436	139,613	102,355
Calcined phosphates . .	<i>n.a.</i>	<i>n.a.</i>	30,362	1,672	3,902	10,169
Basic slag	<i>n.a.</i>	<i>n.a.</i>	10,251	6,781	—	—
Jordan—						
Phosphate-rock	42,808	148,242	154,529	210,320	228,638	243,829

IMPORTS OF PHOSPHATES, ETC.

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Phosphate-rock	1,110,294	1,132,274	1,181,894	1,102,422	1,067,452	1,055,685
Guano, raw	1	613	—	—	—	—
Superphosphates	1,565	1,901	2,905	2,581	1,625	9,419
Basic slag	45,588	79,057	91,673	110,318	114,958	105,808
Ammonium phosphate	35	90	609	4,680	8,123	10,834
Kenya—						
Superphosphates, basic slag, etc.	7,776	20,954	10,316	15,736	14,795	14,094
Mauritius—						
Phosphatic guano	4,744	2,425	5,271	7,175	10,237	8,292
Superphosphates, basic slag, etc.	258	167	767	1,913	914	1,883
Nigeria—						
Phosphate-rock	1,362	238	487	2	1	54
Superphosphates	118	112	117	511	411	436
Other phosphatic fertilizers	80	1,401	897	987	3,078	751
Rhodesia and Nyasaland—						
Superphosphates	49,980	52,729	41,178	60,777	39,933	14,140
South West Africa—						
Superphosphates	564	(a)	(a)	(a)	(a)	(a)
Tanganyika—						
Superphosphates, basic slag, etc.	1,116	545	1,433	2,246	742	785
Uganda—						
Superphosphates, basic slag, etc.	8	446	648	686	1,711	1,467
Union of South Africa—						
Phosphate-rock	344,852	(b) 352,935	(b) 471,712	(b) 405,021	(b) 389,659	(b) 338,797
Phosphatic guano	1,776	9	—	91	—	500
Superphosphates	318	(b) 40,792	(b) 34,947	(b) 4,859	(b) 1,385	(b) 1,204
Basic slag	24,440	(b) 30,536	(b) 20,862	(b) 45,346	(b) 51,721	(b) 42,752
Canada—						
Phosphate-rock	575,768	525,186	560,400	645,732	664,432	711,663
Superphosphates, triple do. other	17,769	31,539	34,364	40,518	39,507	57,436
Basic slag	160,942	157,092	164,278	146,202	154,872	126,913
Other phosphatic fertilizers	1,410	—	1,000	500	750	350
British West Indies—						
Jamaica—						
Phosphatic fertilizers	444	r 1,044	r 687	2,800	2,380	1,409
St. Vincent—						
Superphosphates	12	121	67	62	84	150
Trinidad and Tobago—						
Superphosphates	588	1,610	1,734	2,430	1,305	1,377
Basic slag	24	19	20	20	30	20
British Guiana—						
Superphosphates, basic slag, etc.	3,042	3,971	4,681	4,265	4,593	2,016
Ceylon—						
Phosphate-rock	43,626	28,290	37,973	28,470	19,397	60,077
Superphosphates	2,344	2,961	3,443	8,050	1,296	3,258
Basic slag	129	45	168	224	183	184
Other phosphatic fertilizers	n.a.	14,483	15,929	25,595	26,125	4,644
Cyprus—						
Superphosphates	31,007	19,820	38,567	38,633	31,201	31,124
Basic slag, etc.				102			1,059

(a) Included with Union of South Africa.

(b) Including South West Africa.

IMPORTS OF PHOSPHATES, ETC. (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
<i>(cont.)</i>						
Hong Kong—						
Superphosphates, basic slag, etc.	161	177	357	169	29,062	130
India—						
Phosphate-rock	71,380	{ (c) 30,326 (d) 33,657	45,874	115,895	121,260	188,864
Other phosphates			9,800	47	4,480	264
Superphosphates			1	574	260	3,687	266
Ammonium phosphate	—	300	—	10	47	228
Malaya—						
Phosphate-rock	50	—	1,000	31,163	29,879	65,637
Phosphatic fertilizers	3,074	3,790	6,437	10,843	3,122	3,334
North Borneo—						
Phosphate-rock	104	84	284	177	656	134
Superphosphates	11	23	5	27	41	243
Pakistan—						
Superphosphates	(b) —	(b) —	38	—	—	—
Sarawak—						
Natural phosphates	175	41	5	61	484	4
Phosphatic fertilizers	2,600	1,592	787	1,059	2,069	3,138
Australia (a)—	1,143,330	1,086,884	1,418,524	1,321,607	1,273,766	1,353,739
Superphosphates	—	—	—	150	1	—
New Zealand—						
Phosphate-rock	518,306	r 578,471	r 606,150	r 540,579	486,292	464,873
Phosphatic guano	9,897	—	—	—	8,500	—
Superphosphates	3,382	7,517	r 3,234	r 256	392	70
Basic slag	87,555	r 66,513	r 61,301	r 49,581	41,648	25,344
Other phosphates	11,984	r 120	r 329	r 509	1,968	4,812
Irish Republic—						
Phosphate-rock	121,281	107,300	114,173	73,387	121,544	135,853
Superphosphates	29,979	63,631	56,744	66,998	66,270	77,697
Basic slag	32,096	48,924	48,348	44,337	38,358	85,252
Other phosphatic fertilizers	4,180	6,392	563	12,335	10,062	18,415
OTHER COUNTRIES						
Austria—						
Phosphate-rock	24,218	57,217	20,507	39,373	69,154	109,921
Superphosphates	113,558	73,945	109,488	135,000	114,363	(f) 72,437
Basic slag	153,840	131,836	154,274	199,718	224,285	242,540
Belgium-Luxemburg						
E. U.—						
Phosphate-rock	426,733	387,523	444,246	475,986	571,697	609,667
Superphosphates	46	—	46	—	4	71
Dicalcium phosphates	146	29	3	2	6	8
Basic slag	213	154	68	508	57	352
Czechoslovakia—						
Phosphatic fertilizers (e)	90,000	98,000	91,000	94,000	120,000	123,000
Denmark—						
Phosphate-rock	271,494	237,303	279,086	265,813	269,738	279,544
Superphosphates	67,234	38,195	109,734	126,839	97,095	99,666
Basic slag	1,274	4,228	5,563	5,163	7,229	7,818
Finland—						
Phosphate-rock	187,880	152,310	180,878	303,001	234,198	238,866
Superphosphates	38,082	53,059	19,643	—	—	15,843
Basic slag	—	4,194	18,702	—	6	25,194
Di-calcium phosphates	9,337	10,261	11,723	8,701	11,217	12,858

(a) Years ended June 30 of that stated.
 (b) Years ended March 31 following that stated. Excluding F.O.A. supplies.
 (c) April to December only.

(d) Including phosphate-rock during January to March.
 (e) P_2O_5 content.
 (f) Including other phosphatic fertilizers.

IMPORTS OF PHOSPHATES, ETC. (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
France—						
Phosphate-rock..	1,342,223	1,450,048	1,437,221	1,412,789	1,763,638	1,655,983
Aluminium phosphates	<i>n.a.</i>	<i>n.a.</i>	25,356	65,528	71,092	71,497
Superphosphates	18,256	29,626	46,831	55,643	68,353	101,728
Calcined phosphates	<i>n.a.</i>	<i>n.a.</i>	34,564	52,128	36,173	15,796
Basic slag	1,185	83,624	274,968	273,900	248,199	284,680
Di-calcium phosphates	10,847	7,649	12,249	19,597	19,412	10,476
Germany (Federal)—						
Phosphate-rock, etc.	857,772	941,486	889,700	1,047,246	1,216,183	1,433,115
Superphosphates	1,225	1,142	1,978	2,559	2,448	5,197
Basic slag	325,391	322,013	230,250	409,429	373,154	592,224
Germany (East) (a)—						
Phosphatic fertilizers	58,924	49,626	59,298	58,001	61,250	62,450
Greece—						
Phosphate-rock..	138,432	153,135	136,474	151,007	186,891	178,901
Other phosphatic fertilizers	r 86,970	21,629	13,390	r 6,866	29,481	30,810
Hungary—						
Phosphate-rock..	97,740	78,094	112,383	74,471	157,618	135,752
Iceland—						
Superphosphates	3,888	3,908	5,906	6,063	7,972	8,485
Italy—						
Phosphate-rock..	1,260,768	1,287,086	1,450,580	1,286,161	1,303,749	1,162,366
Superphosphates	1	685	2	353	195	7,234
Basic slag	65,007	82,519	94,199	68,324	64,702	55,651
Netherlands—						
Phosphate-rock..	553,353	520,127	508,319	549,133	616,175	605,289
Superphosphates	525	1,178	125	122	86	2,519
Basic slag	382,976	294,666	292,415	305,736	289,559	302,205
Di-calcium phosphates	7,668	16,340	27,697	23,250	20,787	26,114
Ammonium phosphates	52	47	5,886	5,644	10,563	6,515
Norway—						
Phosphate-rock..	86,973	92,501	123,182	148,239	122,274	135,300
Superphosphates	15,476	14,490	—	—	—	—
Basic slag	7,343	4,881	6,182	6,579	6,816	8,111
Portugal—						
Phosphate-rock..	235,900	228,330	252,625	245,078	218,674	245,200
Superphosphates	472	6,525	—	2,461	4,183	—
Basic slag	10,296	18,862	12,379	13,760	22,083	22,811
Spain—						
Phosphate-rock..	712,610	693,574	824,966	833,945	920,418	1,005,055
Superphosphates, etc.	—	10	2,921	1	—	—
Basic slag	6,923	46,901	55,397	63,632	49,875	86,192
Sweden—						
Phosphate-rock..	354,281	307,461	344,657	346,338	294,506	331,982
Superphosphates	—	—	706	1,847	1,649	3,026
Switzerland—						
Phosphate-rock (b)	25,000	24,000	24,000	24,000	22,000	23,000
Superphosphates, etc.	15,949	12,835	12,112	12,941	14,211	13,759
Basic slag	154,908	160,315	150,643	158,493	162,502	168,522
Yugoslavia—						
Phosphate-rock..	39,276	74,821	91,337	159,294	144,736	157,259
Superphosphates	1,411	2,140	6,855	90,397	152,042	162,492
Basic slag	23,033	74,091	42,620	82,235	104,746	179,035
Algeria—						
Superphosphates	4,971	8,135	5,828	7,122	9,961	8,604
Basic slag	3,283	3,080	1,513	2,472	2,711	1,910
Di-calcium phosphates	1,470	958	1,628	2,194	3,888	2,618
Cameroon (French)—						
Phosphatic fertilizers	<i>n.a.</i>	559	270	257	617	340
Canary Islands—						
Phosphate-rock..	—	3,149	9,891	18,577	16,723	16,573

(a) P_2O_5 content.

(b) Estimated on imports from producing countries.

IMPORTS OF PHOSPHATES, ETC. (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Malagasy Republic— Phosphatic fertilizers ..	1,503	329	1,641	1,101	720	430
Morocco—						
Superphosphates ..	6,946	5,330	930	90	6	586
Di-calcium phosphates ..	3,504	2,396	409	488	3,124	4,378
Tunisia—						
Superphosphates ..	4,155	49	374	2,564	9	738
Costa Rica—						
Phosphatic fertilizers ..	<i>n.a.</i>	2,700	3,967	16,874	18,908	27,160
Cuba—						
Superphosphates ..	18,095	29,272	59,656	53,748	38,623	<i>n.a.</i>
Calcium phosphates ..	4,201	25,931	6,088	6,615	14,779	<i>n.a.</i>
Dominican Republic—						
Superphosphates ..	2,255	2,813	4,594	9,355	5,060	8,154
Mexico—						
Phosphate-rock ..	<i>n.a.</i>	<i>n.a.</i>	50,800	62,553	37,123	48,674
Superphosphates ..	15,965	13,348	10,408	12,553	7,298	11,639
Ammonium phosphates ..	<i>n.a.</i>	<i>n.a.</i>	9,903	12,471	15,773	13,371
Nicaragua—						
Phosphatic fertilizers ..	102	74	641	1,256	751	732
United States—						
Phosphate-rock ..	122,016	117,256	109,891	109,546	108,182	139,891
Superphosphates—						
Single ..	1,770	456	272	71	83	38
Concentrated ..	2,795	812	39	598	495	856
Ammoniated ..	4	416	642	433	1,329	2,733
Basic slag ..	34	2,281	5,049	111	160	237
Di-calcium phosphates ..	5,142	1,172	3,556	1,685	4,078	3,287
Ammonium phosphates ..	146,547	209,396	170,155	151,313	141,716	192,630
Brazil—						
Phosphate-rock ..	120,649	110,533	116,894	109,878	88,146	89,191
Superphosphates—						
Single ..	90,415	95,965	104,175	55,500	40,619	12,454
Concentrated ..				56,776	105,958	49,327
Calcined phosphates ..	1,912	419	830	687	3,314	362
Basic slag ..	1,912	8,640	9,156	12,676	10,228	3,083
Chile—						
Superphosphates ..	252	—	1,574	1,968	18,000	13,405
Di-calcium phosphates ..	18,249	5,883	15,003	11,692	17,000	21,057
Colombia—						
Phosphate-rock ..	1,003	1,098	499	3,656	1,494	1,397
Superphosphates ..	2,218	7,683	15,302	27,898	11,572	1,578
Di-calcium phosphates ..	21,945	26,103	26,321	26,362	24,189	21,101
Peru—						
Phosphate-rock ..	687	2,247	—	2,936	1,427	11,530
Phosphatic fertilizers ..	3,238	5,930	8,662	6,219	998	43
Venezuela—						
Calcium phosphates and superphosphates ..	1,195	1,892	8,502	9,876	4,918	<i>n.a.</i>
Formosa—						
Apatite ..	55,252	28,981	51,835	73,059	63,817	79,713
Phosphatic fertilizers ..	12,696	51,190	35,235	8,350	54,377	78,254
Indo-China—						
Phosphate-rock ..	22,995	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Indonesia—						
Superphosphates ..	5,958	11,059	16,250	24,959	26,114	18,328
Phosphatic fertilizers ..	11,303	18,743	23,713	13,221	13,085	3,678
Japan—						
Phosphate-rock ..	1,361,810	1,620,459	1,659,848	1,532,086	1,483,589	1,695,122
Korea—						
Superphosphates ..	(a) 27,363	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	144,421	83,305

(a) "Civilian Relief in Korea" supplies.

IMPORTS OF PHOSPHATES, ETC. (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
Lebanon—						
Phosphatic fertilizers ..	8,519	7,233	19,351	14,267	10,501	17,836
Philippine Republic—						
Superphosphates ..	6,436	2,556	2,899	3,005	897	498
Ammonium phosphate	23,706	13,487	11,247	39,840	2,781	24,364
Syria—						
Phosphatic fertilizers ..	3,463	3,494	4,641	4,282	4,615	4,274
Thailand—						
Superphosphates ..	<i>n.a.</i>	<i>n.a.</i>	692	689	569	1,038
Phosphatic fertilizers ..	<i>n.a.</i>	2,190	661	4,191	3,265	10,941
Turkey—						
Phosphate-rock ..	17,430	35,846	29,691	5,920	12,421	31,051

PLATINUM
PRODUCTION OF PLATINUM METALS

Troy ounces

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Sierra Leone—						
Crude platinum	—	—	—	(a) 5	(a) 8	—
Union of South Africa—						
Crude (<i>Pt</i> metals content)	101,921	109,267	124,078	} 603,704	(d) 300,000	(d) 375,000
Matte (<i>Pt</i> metals content)	236,241	272,465	360,496			
Osmiridium (crude) (b)	6,266	7,095	6,696			
Canada—						
Recovered from Ontario nickel-copper ores (c)—						
Platinum	154,356	170,494	151,357	199,565	146,092	149,510
Other platinum metals	189,350	214,252	r 163,461	216,582	154,366	170,160
Australia—						
New South Wales—						
Concentrates (<i>Pt</i> content)	23	7	18	17	22	n.a.
Tasmania—						
Osmiridium	16	21	25	66	42	n.a.
New Zealand—						
Crude platinum	1	—	—	—	—	—
New Guinea—						
Platinum	19	10	9	14	28	19
OTHER COUNTRIES						
U.S.S.R.—						
Crude platinum (d)	200,000	250,000	250,000	250,000	250,000	250,000
Belgian Congo—						
Platinum	—	—	25	25	32	—
Palladium	—	—	135	300	129	—
Ethiopia—						
Crude platinum	230	251	244	248	180	68
United States (e)—						
Crude platinum	18,952	15,377	16,147	13,838	10,656	} 15,015
New platinum metals recovered by refineries from gold and copper ores of domestic origin—						
Platinum	1,375	1,810	1,466	1,172	1,009	
Palladium	3,908	5,879	4,163	3,798	4,397	
Iridium, osmiridium, etc. ..	—	—	—	—	—	

(a) Exports.

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

	1954	1955	1956	1957	1958	1959
Osmium	1,978	2,003	2,189	2,068	n.a.	n.a.
Iridium	1,787	1,797	1,979	1,837	n.a.	n.a.
Ruthenium	896	881	956	877	n.a.	n.a.
Platinum	733	751	863	718	n.a.	n.a.
Rhodium	57	62	64	81	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):

	1954	1955	1956	1957	1958	1959
Platinum	31,330	32,901	60,916	49,022	36,426	58,945
Palladium	31,190	26,124	37,774	31,294	38,883	68,279
Iridium	734	1,499	1,751	1,406	1,223	1,188
Other platinum metals	2,445	3,812	5,828	5,799	4,982	7,584

(f) Sales.

PRODUCTION OF PLATINUM METALS (cont.)

Troy ounces

Producing Country	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
Colombia (a)— Crude platinum ..	28,465	27,526	26,215	19,830	16,036	18,322
Japan— Platinum	1,347	628	483	354	442	470
Palladium	248	221	218	233	240	324
Iridium	—	9	15	3,000	600	—
WORLD'S TOTAL (b)	900,000	1,080,000	1,110,000	1,320,000	900,000	980,000

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

(b) Estimated.

EXPORTS OF PLATINUM*

Troy ounces

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Platinum—						
Ingots, grain and powder	25,221	139,710	156,317	268,318	249,860	278,534
Other kinds (a) ..	182,562	211,728	204,900	144,334	25,617	34,740
Other platinum metals and alloys	183,449	271,879	285,408	191,544	146,064	145,840
Sierra Leone—						
Crude platinum ..	—	—	—	5	8	—
Union of South Africa—						
Osmiridium	5,586	6,320	37,835	6,138	4,174	<i>n.a.</i>
Crude platinum metals	267,645	363,025	286,770	364,109	<i>n.a.</i>	<i>n.a.</i>
Canada—						
Concentrates, etc. (b) ..	(£6,114,914)	(£5,311,105)	(£7,480,590)	(£6,581,378)	(£3,707,218)	(£4,645,807)
Scrap	101	189	3,545	1,250	295	995
Hong Kong—						
Platinum and platinum group metals	(£161,320)	(£131,664)	(£24,095)	(£12,448)	(£923)	—
Australia (c)—						
Platinum and platinum group metals	529	410	765	569	862	57
OTHER COUNTRIES						
Austria—						
Unwrought platinum and platinum metals	4,790	5,884	4,437	4,051	6,141	611
Denmark—						
Rods, sheets, wire, scrap, etc.	482	354	193	900	804	—
France—						
Unwrought platinum and scrap (a)	14,918	24,274	23,374	55,717	10,931	12,828
Palladium (inc. scrap)(a)	21,123	52,213	75,136	12,057	44,529	9,227
Drawn or rolled platinum	16,397	39,385	11,896	85,810	8,263	8,713
Germany (Federal)—						
Platinum metals and alloys	12,884	29,518	32,350	39,376	129,526	69,145
Italy—						
Sheets, bars, dust, scrap, etc.	322	—	1,447	64	5,948	129
Netherlands—						
Unwrought Platinum ..	75,908	154,645	327,359	639,800	75,393	63,787
Norway—						
Platinum (incl. scrap) ..	15,915	10,385	15,238	9,034	13,568	21,380
Sweden—						
Unwrought platinum ..	2,958	10,192	8,327	8,423	262,800	<i>n.a.</i>
Switzerland—						
Unwrought platinum ..	3,665	1,190	4,951	7,845	3,215	2,186

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

(a) Including alloys.

(b) Value of 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	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
U.S.S.R.	(a)	(a)	(a)	(a)	(a)	(a)
United States—						
Ores, etc. (<i>Pt content</i>) . .	29	—	—	—	} 35,075	18,560
Ingots, sheets, wire, etc.	16,980	17,073	23,823	17,199		
Palladium, rhodium, etc. and alloys	11,443	11,895	18,249	23,155	12,293	12,845
Colombia—						
Platinum	28,465	27,526	26,215	19,830	16,036	18,322

(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):

	1954	1955	1956	1957	1958	1959
United Kingdom	18,279	30,012	14,452	28,074	52,529	47,790
Germany (Federal)	—	12,829	13,655	35,289	107,433	108,156
Netherlands	10,320	160,947	157,796	52,727	24,499	20,834
United States	4,283	16,802	42,381	24,810	93,583	130,431

IMPORTS OF PLATINUM*

Troy ounces

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom (a)—						
Platinum—						
Ingots, grain and powder	23,507	66,517	43,916	130,569	70,608	50,072
Other kinds including alloys	(b) 466	(b) 3,819	806	} 46,929	29,267	51,683
Other platinum metals and alloys	19,287	23,823	55,019			
Union of South Africa—						
Platinum	366	55	34	352	541	512
Canada—						
Platinum and platinum group metals	(£2,477,802)	(£1,457,916)	(£1,730,456)	(£1,981,134)	(£1,372,800)	b (£821,828)
Hong Kong—						
Platinum and platinum group metals	n.a. (£137,088)	n.a. (£95,579)	n.a. (£101,784)	n.a. (£110,444)	n.a. (£114,722)	6,714 (£105,445)
India—						
Platinum	n.a.	n.a.	n.a.	2,450	2,176	2,135
Malaya—						
Unwrought platinum ..	124	315	188	289	92	12,857
Australia (c)—						
Platinum bars, rods, sheets, etc.	} 4,331	4,378	} 881	515	63	229
Bars, rods, sheets, etc. of other platinum metals						
Platinum metal powder						
New Zealand—						
Platinum and platinum group metals	1,226	1,312	1,660	1,200	1,679	1,415
OTHER COUNTRIES						
Austria—						
Unwrought platinum and platinum metals	2,411	6,044	4,501	3,601	2,315	1,672
Denmark—						
Rods, sheets, wire and scrap	1,478	1,061	1,350	1,254	1,736	1,222
Finland—						
Unwrought platinum etc.	482	691	948	871	1,653	5,057
France—						
Unwrought platinum, alloys and scrap	60,283	106,580	70,860	162,522	56,360	68,642
Unwrought palladium, alloys and scrap	48,419	101,146	106,901	42,471	60,122	77,676
Drawn or rolled platinum	225	675	450	1,093	96	64
Germany (Federal)—						
Platinum metals and alloys	76,783	147,000	103,222	124,021	194,188	187,344

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

(a) Imports of ores and concentrates containing platinum are not separately recorded. The value of platinum and platinum metals contained in concentrates and other forms exported from Canada to the United Kingdom were as follows: 1954—£5,924,237; 1955—£5,284,797; 1956—£7,346,377; 1957—£6,445,061; 1958—£5,419,429; 1959—£4,331,740.

In addition crude platinum metals (for further refining) and osmiridium exported from the Union of South Africa to the United Kingdom, were as follows (troy ounces):

	1954	1955	1956	1957	1958	1959
Crude platinum metals	267,645	363,025	286,770	364,109	n.a.	n.a.
Osmiridium	5,586	6,320	37,835	6,138	4,174	n.a.

(b) Excess of re-exports.

(c) Years ended June 30 of that stated.

IMPORTS OF PLATINUM (cont.)

Troy ounces

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Italy—						
Unwrought platinum ..	3,762	6,044	6,076	6,462	8,198	10,996
Drawn or rolled ..	225	1,575	5,080	3,440	2,990	5,048
Other platinum metals ..	3,826	5,787	5,080	19,226	23,888	18,326
Netherlands—						
Unwrought platinum ..	71,793	306,461	359,477	105,454	64,559	150,433
Norway—						
Unwrought platinum ..	1,853	2,817	1,640	2,347	2,476	2,765
Sheets, rolled and wire ..	665	243	322	129	261	n.a.
Portugal—						
Sheets, wire, etc. ..	52	22	187	31	236	144
Spain—						
Bars, sheets, wire, etc. ..	215	1	51	19	39	965
Sweden—						
Unwrought platinum ..	1,061	675	96	739	3,408	n.a.
Switzerland—						
Unwrought platinum ..	13,728	10,610	27,875	21,702	15,272	23,599
Yugoslavia—						
Unwrought platinum ..	707	354	4,276	5,080	13,214	9,163
Egypt—						
Ingots, bars, sheets, etc. ..	216	305	66	—	10	n.a.
Cuba—						
Ingots and bars ..	289	289	64	—	64	n.a.
Palladium ..	—	161	257	161	2,765	n.a.
Mexico—						
Ingots and bars ..	769	409	80	72	249	263
United States—						
Ore (a) ..	2,714	407	—	1,572	—	503
Grains and nuggets (a) ..	42,596	40,713	34,016	26,328	21,635	77,763
Sponge and scrap (a) (b) ..	148,503	177,832	152,413	128,975	112,739	58,764
Ingots, bars, sheets (a) (b) ..	195,187	276,755	289,516	179,349	148,191	205,890
Iridium ..	432	271	2,323	1,431	1,156	7,772
Osmium and osmiridium ..	3,187	1,999	1,318	2,977	1,595	3,344
Palladium ..	188,839	487,174	530,686	327,558	360,077	610,740
Rhodium and ruthenium ..	19,365	20,744	22,543	18,493	25,038	44,021
Brazil—						
Unwrought platinum ..	13,285	207	591	1,270	1,350	96
Palladium ..	1,688	5	53	305	1,093	—
Colombia—						
Unwrought platinum ..	261	752	1,858	—	—	—
Uruguay—						
Platinum metals ..	n.a.	n.a.	n.a.	193	12	148
Venezuela—						
Unwrought platinum ..	—	579	n.a.	2,090	9,099	n.a.
Iraq—						
Unwrought platinum ..	547	n.a.	n.a.	n.a.	n.a.	n.a.
Japan (c)—						
Platinum ..	12,761	19,192	27,776	32,978	60,401	74,355
Palladium ..	7,066	10,715	15,740	22,119	32,526	46,296
Rhodium ..	227	518	760	767	870	2,530
Iridium, etc. ..	903	503	762	3,337	1,224	1,610
Lebanon—						
Unwrought platinum ..	1,415	2,797	2,411	3,472	5,754	4,783
Turkey—						
Sheets ..	—	—	—	—	643	—

(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:

	1954	1955	1956	1957	1958	1959
Sponge and scrap ..	4,230	8,362	6,234	2,043	13,167	5,666
Platinum metal ..	354,081	450,270	436,757	301,611	247,763	206,524

(c) Including alloys for years 1954 and 1955.

POTASH MINERALS
PRODUCTION OF POTASH

Long tons

Producing Country and Description	K ₂ O Content or Equivalent					
	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Canada—						
Potash salts	—	—	—	—	—	41,500
India—						
Nitrate	(a) 3,000	n.a.	n.a.	n.a.	n.a.	n.a.
TOTAL (a)	1,500	n.a.	n.a.	n.a.	n.a.	n.a.
OTHER COUNTRIES						
France (b)—						
Sylvinite, 12-22% K ₂ O						
Fertilizer salts						
30-40% K ₂ O..	7,144,591	7,702,675	8,376,150	78,695,655	9,230,061	9,382,550
Chloride						
50% K ₂ O and over						
Germany—						
Federal Republic—	15,330,000	15,853,000	15,299,000	15,944,000	16,401,000	17,147,000
Kainite, sylvinite, etc.						
Eastern—						
Potash salts	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Italy (c)—						
Crude potash salts	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Other potash fertilizers	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Netherlands (c)—						
Potassium chloride (over	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
45% K ₂ O)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Potassium sulphate ..	500	400	—	400	400	600
	500	200	200	100	200	200
	30,773	30,691	41,847	26,896	40,590	46,843
	320,441	336,546	378,664	296,840	199,514	124,047
	713,147	803,264	885,742	1,056,018	1,213,599	1,267,920
	1,905,000	1,988,000	1,934,000	1,956,000	1,987,000	2,110,000
	1,440,000	1,527,000	1,531,000	1,579,000	1,624,000	1,618,000
	300	400	500	500	500	600
	2,000	1,500	1,500	1,500	2,100	2,200
	500	400	—	400	400	600
	500	200	200	100	200	200

(a) Estimated.

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

(c) Years ended June 30 of that stated.

PRODUCTION OF POTASH (cont.)

Long tons

Producing Country and Description	K ₂ O Content or Equivalent											
	1954	1955	1956	1957	1958	1959	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)												
Spain—Carnallite, sylvinite, etc.	1,203,155	1,262,425	1,421,850	1,392,816	1,516,412	1,570,962	205,186	205,705	220,032	213,963	234,529	237,755
U.S.S.R. (a)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	530,100	777,200	878,200	929,000	1,000,000	1,040,000
Potash salts—United States—Muriate (chloride)—60–62% K ₂ O (c) 48–50% K ₂ O	2,708,201	3,137,000	3,285,000	3,429,000	3,250,000	3,601,000	1,739,929	1,843,579	1,938,914	2,023,644	1,917,563	2,127,910
Fertilizer salts—Sulphate, etc. (b)	258,223											
Chile—Chloride	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	490	10,000	11,000	10,000	(a)10,000	(a)10,000
Israel—Chloride	n.a.	14,000	44,981	77,000	108,000	108,000	n.a.	n.a.	27,000	46,700	66,000	66,000
Japan—Alumite	5,775	6,066	6,245	6,533	6,494	2,747	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
TOTAL (d)							7,000,000	7,500,000	7,800,000	8,100,000	8,300,000	8,700,000
WORLD'S TOTAL (d)							7,000,000	7,500,000	7,800,000	8,100,000	8,300,000	8,700,000

NOTE.—Potash is also produced in Poland and certain other countries. An allowance has been made for these countries in the world's total.

(a) United States Bureau of Mines' estimate.

(b) Including sulphate of potash-magnesia.

(c) Including refined potash and some 93–96% KCl.

(d) Estimated.

EXPORTS OF POTASH SALTS

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959				
COMMONWEALTH COUNTRIES										
United Kingdom—										
Nitrate	1,198	1,007	} 558	734	125	25				
Sulphate	48	81								
Other compounds	1,888	2,048		2,857	3,079	2,846	3,539			
Hong Kong—										
Nitrate	84	142	213	320	368	356				
Chlorate	266	401	292	239	373	265				
India—										
Nitrate	110	111	148	6	16	44				
Malaya—										
Fertilizer salts	7	11	28	47	42	68				
OTHER COUNTRIES										
Belgium-Luxemburg										
E.U.—										
Fertilizer salts	6,969	8,186	1,960	930	765	212				
Carbonate	912	1,784	2,532	1,980	2,260	2,754				
Caustic potash	3,423	4,170	3,012	3,472	5,022	5,918				
Chloride	474,347	530,625	662,015	681,632	714,323	701,031				
Chlorates	—	3	—	—	1	—				
Nitrate	119	49	21	33	32	25				
Sulphate	169,165	192,745	189,289	201,743	240,532	236,885				
Finland—										
Chlorate	417	843	378	119	27	109				
France—										
Sylvinite, etc.	351,602	296,803	339,076	339,216	368,607	314,330				
Carbonate	6,593	7,514	7,357	9,140	7,265	9,123				
Caustic potash	9,345	11,127	8,248	9,325	8,114	13,139				
Chlorate	834	1,403	549	539	948	932				
Chloride	} 674,029	706,907	{ 726,423	769,935	795,688	800,778				
Sulphate							} 197,581	185,386	185,927	231,269
Nitrate .. .. .											3,418	3,072	2,876	2,149
Germany (Federal)—										
Fertilizer salts	1,360,789	1,260,171	1,577,232	1,347,538	1,233,852	1,370,091				
Carbonate	3,265	5,497	4,289	3,584	4,260	5,432				
Caustic potash	3,911	4,130	3,227	3,556	3,791	n.a.				
Chlorate	150 [†]	91	159	760	233	61				
Nitrate	5,372	7,090	6,801	8,476	11,790	9,633				
Germany (East)—										
Fertilizer salts										
(K ₂ O content)	889,000	985,000	951,000	961,000	970,000	1,025,000				
Carbonate	6,866	9,130	9,462	9,918	10,543	9,511				
Caustic potash	5,582	7,308	7,490	7,731	8,374	7,144				
Netherlands—										
Carbonate	832	227	344	1,224	274	220				
Caustic potash	20	4	17	6	23	7				
Chloride	442	983	670	580	779	916				
Nitrate	12	18	51	31	65	53				
Sulphate	66	67	54	17	98	405				
Portugal—										
Chloride	181	204	884	843	200	27				
Spain—										
Chloride	240,671	237,775	251,375	323,462	260,495	290,861				
Chlorate	—	31	13	124	—	—				
Sweden—										
Carbonate	8	41	47	18	4	—				
Caustic potash	1,907	2,118	2,238	1,723	1,918	2,441				

EXPORTS OF POTASH SALTS (cont.)

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Switzerland—						
Nitrate (crude) ..	—	5	18	3,946	2,927	15
U.S.S.R.—						
Fertilizer salts ..	<i>n.a.</i>	45,300	105,400	217,700	388,400	431,800
United States—						
Chloride ..	82,802	175,884	300,721	358,565	414,969	471,348
Other fertilizer salts ..	16,469	22,776	48,133	51,880	28,607	28,653
Caustic potash ..	2,150	2,396	2,853	2,958	3,299	3,362
Other compounds ..	2,822	3,323	2,980	3,765	5,301	6,746
Chile—						
Nitrate ..	63,038	66,975	55,305	51,313	54,635	86,018
Israel—						
Chloride ..	12,799	7,923	15,683	75,267	77,917	102,571
Japan—						
Chlorate ..	584	491	355	427	766	680
Chloride ..	} <i>n.a.</i>	} <i>n.a.</i>	492	{ 2,931	1,005	1,498
Sulphate ..							874	24	59

IMPORTS OF POTASH SALTS

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Fertilizer salts	37,784	35,440	36,962	36,693	38,378	43,564
Carbonate	4,428	5,341	4,269	5,367	5,168	4,819
Caustic potash and lyes	2,421	2,499	1,340	1,550	1,660	1,833
Chlorate	621	1,227	1,158	1,179	1,106	960
Chloride	473,641	509,927	552,653	537,290	581,713	610,400
Nitrate	927	1,281	2,354	1,205	2,639	2,740
Sulphate	7,008	13,927	12,915	15,642	16,143	25,026
Other compounds	817	825	1,120	1,841	1,073	7,046
Ghana—						
Fertilizer salts	71	49	205	120	92	254
Kenya—						
Fertilizer salts	229	425	376	796	11	—
Mauritius—						
Fertilizer salts	5,484	5,102	5,054	7,147	7,751	8,527
Nigeria—						
Fertilizer salts	976	711	1,647	964	1,040	703
Rhodesia and Nyasaland—						
Fertilizer salts	13,952	19,333	16,158	19,112	16,247	22,987
Compounds	172	285	201	406	267	353
Tanganyika—						
Fertilizer salts	183	247	544	727	610	536
Uganda—						
Fertilizer salts	67	138	379	21	305	191
Union of South Africa—						
Fertilizer salts	695	3,709	3,655	6,811	3,085	5,723
Nitrate	128	168	182	243	195	199
Caustic potash	150	301	284	380	349	317
Chloride	20,303	31,769	36,628	31,739	43,358	57,499
Other compounds	855	1,150	1,270	1,127	1,046	878
Canada—						
Fertilizer salts	17	—	18	—	—	—
Caustic potash	2,431	2,206	2,627	3,260	3,946	3,788
Chlorate	53	59	56	64	36	39
Crude chloride	102,936	123,654	117,226	122,005	117,236	85,089
Nitrate	442	554	487	467	607	662
Crude sulphate	11,415	12,461	14,422	15,823	13,874	22,091
Other compounds	1,473	2,059	2,475	3,376	3,599	5,091
British West Indies—						
Barbados—						
Fertilizer salts	5,539	3,160	4,375	6,570	2,881	4,325
Jamaica—						
Fertilizer salts	2,349	r 1,612	3,421	3,641	3,848	5,809
St. Vincent—						
Chloride	78	118	85	68	519	178
Trinidad and Tobago—						
Chloride and sulphate	2,012	2,058	1,790	2,966	1,978	2,758
British Guiana—						
Fertilizer salts	663	n.a.	1,898	1,604	3,261	4,663
Ceylon—						
Kainite and sylvinite ..	640	699	500	500	50	331
Chloride	29,412	26,751	45,916	38,345	35,080	42,596
Nitrate of potash refuse	—	6	19	6	2	3
Sulphate	325	275	1,060	695	400	870
Hong Kong—						
Nitrate	362	564	664	595	1,079	621
Chlorate	178	334	223	273	316	371

IMPORTS OF POTASH SALTS (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES (cont.)						
India—						
Fertilizer salts	} 10,411	} 7,107	} 7,674	} —	6,011	—
Carbonate					835	1,015
Caustic potash					454	1,553
Nitrate					40	5
Sulphate					13,973	10,107
Chlorate					925	1,050	808	1,158	450	542
Chloride	27,807	14,026	15,927	7,373	25,038	52,544
Malaya—						
Fertilizer salts	5,416	7,865	5,553	9,484	10,951	13,865
Pakistan (a)—						
Chlorate	678	1,562	203	424	538	300
Chloride	—	—	—	5	—	—
Other compounds	94	261	64	497	193	204
Australia (b)—						
Carbonate	304	628	1,008	622	771	863
Caustic potash	471	765	1,021	1,349	636	958
Chloride	19,041	23,933	35,588	34,399	48,786	38,044
Nitrate	272	297	368	347	470	354
Sulphate	3,198	3,481	3,487	3,845	4,793	5,708
Other compounds	201	429	407	462	543	820
New Zealand—						
Caustic potash and pearl ash	71	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Chlorate	46	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Chloride	33,566	<i>r</i> 37,420	<i>r</i> 39,795	38,908	52,118	73,025
Nitrate	29	<i>r</i> 101	<i>r</i> 85	<i>r</i> 80	138	144
Sulphate	2,592	<i>r</i> 2,346	<i>r</i> 2,229	<i>r</i> 2,616	2,903	2,661
Other fertilizer salts	278	<i>r</i> 1,775	<i>r</i> 1,212	—	75	13
Compounds other than fertilizer	88	<i>r</i> 166	<i>r</i> 267	<i>r</i> 314	294	317
Irish Republic—						
Fertilizer salts	604	613	794	670	1,089	1,653
Chloride	73,143	82,178	68,736	100,574	93,133	108,747
Other compounds	376	429	474	415	542	538
OTHER COUNTRIES						
Austria—						
Fertilizer salts	126,503	128,571	141,112	176,829	202,669	168,256
Caustic potash	255	356	305	369	431	358
Carbonate	548	491	396	846	786	908
Chloride	145	321	263	168	128	8,992
Nitrate	341	381	274	252	264	279
Sulphate	—	297	119	3	150	3,178
Belgium-Luxemburg						
E.U.—						
Fertilizer salts	182,974	162,273	182,799	201,948	193,424	158,864
Carbonate	742	613	825	567	536	663
Caustic potash	209	143	605	359	614	624
Chlorates	672	556	641	607	423	542
Chloride	849,363	931,565	1,082,758	1,094,255	1,100,611	1,153,374
Nitrate	1,102	1,741	1,651	1,731	1,962	2,053
Sulphate	24,348	15,639	20,315	15,243	21,511	10,932
Czechoslovakia—						
Fertilizer salts (K_2O content)	<i>n.a.</i>	<i>n.a.</i>	165,000	184,000	214,000	229,000

(a) Years ended March 31 following that stated, up to 1955 inclusive.

(b) Years ended June 30 of that stated.

IMPORTS OF POTASH SALTS (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
(cont.)						
Denmark—						
Carbonate	501	376	397	329	378	365
Caustic potash	1,079	1,046	1,036	895	809	941
Chlorate	132	168	133	143	116	136
Chloride	r 281,513	r 275,376	r 341,772	r 312,810	294,454	303,945
Nitrate	972	742	949	913	956	843
Sulphate	r 949	r 2,256	r 2,162	r 1,883	1,702	1,434
Finland—						
Fertilizer salts	87,191	94,986	109,857	113,788	76,668	102,769
Carbonate	245	295	289	300	258	332
Caustic potash	203	118	157	123	226	188
Chloride	1,851	3,794	1,476	1,974	1,481	1,501
Nitrate	99	132	43	114	115	249
Sulphate	4,555	8,395	6,547	986	1,481	1,473
France—						
Fertilizer salts	1,692	14,172	793	5,489	19,080	10,006
Caustic potash	26	34	48	42	38	47
Germany (Federal)—						
Fertilizer salts	291	—	3	—	—	22
Carbonate	57	5	6	—	—	70
Caustic potash	286	205	195	208	230	n.a.
Chlorate	75	58	90	103	355	631
Nitrate	157	207	304	79	186	331
Greece—						
Carbonate	851	1,092	748	765	1,369	912
Caustic potash	26	42	105	16	22	n.a.
Nitrate	179	188	126	52	132	n.a.
Sulphate	9,025	1,975	12,793	25,787	13,119	10,664
Hungary—						
Fertilizer salts	29,086	31,700	26,336	35,798	57,278	82,069
Iceland—						
Fertilizer salts	2,731	3,279	2,956	3,416	3,988	4,087
Carbonate	8	15	11	7	12	5
Caustic potash	24	53	28	23	28	42
Italy—						
Fertilizer salts	66,842	79,636	65,305	68,596	60,542	72,739
Carbonate	2,674	3,183	3,227	3,188	2,338	2,597
Caustic potash	4,021	6,603	3,465	3,449	2,723	2,842
Chloride	14,319	26,229	31,878	34,843	56,904	72,964
Nitrate	1,034	808	874	886	638	964
Sulphate	13,441	26,353	35,130	31,556	43,149	43,092
Netherlands—						
Kainite	76,187	45,779	52,842	48,568	45,538	46,427
Fertilizer salts						
(20% K ₂ O)	44,626	34,949	37,752	40,153	42,777	38,112
do. (40% K ₂ O)	284,596	225,549	262,475	239,698	230,638	219,990
Carbonate	3,077	4,177	4,614	4,169	4,975	5,207
Caustic potash	4,811	5,032	4,016	5,059	6,136	7,564
Chloride	29,512	24,961	33,194	39,731	47,385	52,158
Nitrate	1,461	1,718	2,400	1,827	1,470	1,755
Sulphate	16,581	29,579	26,966	28,385	28,798	26,113
Patent potash	66,981	56,032	52,337	43,718	55,374	48,997
Norway—						
Fertilizer salts	91,171	45,073	44,462	51,380	21,241	—
Carbonate	340	413	389	281	265	346
Caustic potash and lyes	1,524	1,413	1,337	1,079	973	1,187
Chlorate	131	149	219	144	130	131
Chloride	17,959	22,635	39,960	53,445	54,822	77,770
Nitrate	199	104	194	258	155	146
Sulphate	(a)	16,097	18,905	17,893	17,867	13,663

(a) Included with fertilizer salts.

IMPORTS OF POTASH SALTS (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959		
OTHER COUNTRIES (cont.)								
Portugal—								
Carbonate	90	79	120	109	103	89		
Caustic potash	95	22	65	79	64	30		
Chlorate	191	182	180	196	159	148		
Chloride	12,727	8,776	16,264	15,109	11,763	13,888		
Nitrate	353	316	391	309	415	377		
Sulphate	246	1,739	1,642	1,425	1,181	2,893		
Sweden—								
Fertilizer salts (40% K ₂ O)	109,430	13,994	—	—	530	} 825		
do. (other)	58,738	143,734	176,492	157,069	130,027			
Carbonate	1,568	1,666	1,519	1,136	1,129	1,083		
Caustic potash	364	313	361	336	332	204		
Chloride	10,560	10,364	15,423	13,594	7,736	127,671		
Nitrate	700	776	924	839	801	838		
Sulphate	3,892	8,201	10,319	8,273	7,323	8,495		
Switzerland—								
Fertilizer salts	69,081	74,470	69,104	67,026	79,292	70,836		
Carbonate	1,268	1,153	1,694	1,399	1,236	2,043		
Caustic potash	2,324	2,483	2,164	2,886	1,589	1,793		
Chloride	4,350	6,965	9,785	13,393	15,936	21,230		
Nitrate, crude	1	295	16	—	169	1,101		
Nitrate, purified, including sodium nitrate	475	607	811	641	769	934		
Yugoslavia—								
Fertilizer salts	33,038	55,701	55,108	46,411	123,549	173,782		
Caustic potash	99	187	70	n.a.	95	412		
Chloride	n.a.	n.a.	2,298	87,039	72,050	10,224		
Nitrate	1,080	—	39	—	10	—		
Sulphate	87	39	492	3,174	1,191	2,822		
Algeria—								
Chloride	} 20,729	} 17,687	7,885	12,340	14,817	13,449		
Sulphate			2,174	7,085	10,859	8,112		
Carbonate			11	6	2	12	1	36
Caustic potash			28	29	20	55	44	44
Nitrate			21	11	377	181	241	244
Cameroon (French)—								
Fertilizer salts	n.a.	748	440	757	323	1,748		
Canary Islands—								
Fertilizer salts	3,429	—	—	3,923	10	50		
Egypt—								
Fertilizer salts	633	—	231	2,966	4,457	11,810		
Carbonate	102	184	81	196	369	208		
Caustic potash	33	32	137	172	136	75		
Chlorate	143	184	234	195	196	223		
Malagasy Republic—								
Fertilizer salts	789	311	699	1,408	2,351	1,482		
Morocco—								
Chloride	6,848	6,460	1,949	1,623	3,525	4,290		
Sulphate	4,345	4,630	1,569	674	4,534	4,587		
Tunisia—								
Fertilizer salts	1,526	2,293	1,641	2,469	3,843	2,480		
Caustic potash	7	9	5	6	11	4		
Costa Rica—								
Fertilizer salts	n.a.	359	1,142	3,270	1,345	352		
Cuba—								
Nitrate	3,883	5,357	16,205	10,304	7,972	n.a.		
Chlorate	235	236	187	259	163	n.a.		
Chloride	11,767	10,418	9,779	21,488	9,627	n.a.		
Sulphate	4,278	11,836	17,721	23,256	9,560	n.a.		

IMPORTS OF POTASH SALTS (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
(cont.)						
Guatemala—						
Chlorate	95	46	55	81	88	n.a.
Nitrate	5	2	56	8	60	n.a.
Caustic potash	16	7	14	11	14	n.a.
Mexico (a)—						
Carbonate	n.a.	n.a.	116	254	267	361
Chloride	2,501	5,845	7,261	8,222	16,384	12,209
Caustic potash	161	235	280	234	284	202
Sulphate	n.a.	n.a.	136	414	1,034	1,559
Nicaragua—						
Fertilizer salts	n.a.	127	251	201	229	104
United States—						
Carbonate	16	—	—	5	197	152
Caustic potash	171	193	239	239	483	621
Chlorates	108	306	310	329	417	163
Chloride	131,557	215,590	223,784	r 226,799	266,379	299,814
Cyanide	748	710	826	702	719	574
Nitrate	1,428	2,089	2,114	2,011	2,314	2,080
Potassium-sodium nitrate mixtures	11,811	17,232	17,367	22,672	20,989	32,534
Sulphate	47,878	49,733	47,448	43,876	58,770	117,280
Argentina—						
Carbonate	63	521	87	354	128	392
Caustic potash	727	1,491	243	170	285	503
Chlorate	657	979	41	562	515	541
Nitrate	504	826	—	—	—	15
Sulphate	—	249	584	535	621	25
Brazil—						
Caustic potash	64	403	1,346	170	120	573
Nitrate	2,055	869	1,345	909	494	602
Nitrate of potash and soda	—	20,761	15,815	11,379	—	7,690
Chloride	42,016	73,818	61,088	92,781	99,320	89,048
Sulphate	4,451	4,446	3,658	4,968	9,339	4,811
Carbonate	819	164	1,001	230	404	464
Chlorate	766	335	36	308	3	—
Chile—						
Caustic potash	151	221	91	84	165	n.a.
Chlorate	79	130	39	132	n.a.	144
Chloride	4,283	1	886	3,666	n.a.	9,726
Sulphate	9,005	2	1,516	4,929	n.a.	2,243
Colombia—						
Chlorate	211	280	326	267	264	206
Chloride	14,849	17,662	10,682	10,639	22,067	11,348
Nitrate	273	326	304	267	283	222
Sulphate	3,372	2,923	2,746	2,231	5,789	2,766
Other fertilizer salts	320	35	390	44	179	49
Peru—						
Fertilizer salts	348	540	2,308	1,480	3,054	2,190
Caustic potash	29	54	96	105	39	16
Other salts	158	170	129	144	132	176
Uruguay—						
Nitrate	n.a.	n.a.	n.a.	595	914	2
Caustic potash	n.a.	n.a.	n.a.	307	338	408
Venezuela—						
Carbonate	35	25	12	27	19	n.a.
Chlorate	118	82	98	45	136	n.a.
Chloride	662	r 1,892	1,399	1,696	5,027	n.a.
Nitrate	289	r 424	330	126	51	n.a.
Sulphate	99	r 1,167	1,537	3,940	—	n.a.

IMPORTS OF POTASH SALTS (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
Formosa—						
Fertilizer salts	544	4,478	25,258	23,613	48,867	19,841
Indonesia—						
Nitrate	17	101	244	199	142	219
Japan—						
Kainite, etc.	—	—	3,937	—	—	50
Chloride	454,252	551,534	} 837,801	{ 487,622	578,215	671,237
Sulphate	188,874	151,440					{ 134,302	89,433	117,605
Lebanon—						
Fertilizer salts	2,274	2,618	2,655	2,651	2,513	3,699
Philippine Republic—						
Caustic potash	11	165	114	59	75	15
Chlorate	430	264	608	629	565	612
Nitrate	78	1,803	59	1,482	105	989
Sulphate	150	314	592	1,769	1,064	1,359
Thailand—						
Chlorate	<i>n.a.</i>	85	188	323	326	201
Chloride	<i>n.a.</i>	30	273	325	116	238
Nitrate	<i>n.a.</i>	394	547	1,052	823	829
Sulphate	<i>n.a.</i>	89	<i>n.a.</i>	148	246	794
Turkey—						
Carbonate	388	794	763	1,621	496	1,411
Caustic potash	200	173	235	368	275	456
Chlorates	12	94	237	114	105	810
Nitrate	—	134	—	—	—	—
Sulphate	<i>n.a.</i>	<i>n.a.</i>	12,098	26	5,413	7,992

PYRITES

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

Producing Country	Estimated Sulphur Content										Long tons	
	1954	1955	1956	1957	1958	1959	1954	1955	1956	1957		1958	1959
COMMONWEALTH COUNTRIES												
Great Britain	7,010	5,514	4,207	3,597	3,202	3,202	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Southern Rhodesia .. .	36,387	21,268	18,674	19,986	58,268	40,237	16,000	9,400	8,200	8,800	25,600	17,700
Union of South Africa ..	225,534	351,651	429,964	r 388,216	493,184	495,388	86,809	137,882	169,370	155,490	204,841	195,101
Canada (c) .. .	614,221	784,332	934,589	1,041,443	1,064,046	939,172	277,821	360,702	422,862	459,907	457,524	<i>n.a.</i>
Cyprus (a) .. .	795,350	961,390	1,080,822	1,081,357	1,010,000	869,864	383,000	471,000	528,000	527,000	487,000	423,000
India .. .	800	800		<i>n.a.</i>	15	15	348	348				<i>n.a.</i>
Australia .. .	206,778	228,764	184,488	b 229,125	b 226,744	b 231,035	97,600	107,700	86,800	109,000	108,600	110,500
TOTAL .. .	1,885,000	2,354,000	2,653,000	2,764,000	2,855,000	2,379,000	<i>n.a.</i>	d 134,000	d 140,000	d 153,000	d 159,000	d 165,000
OTHER COUNTRIES												
Czechoslovakia .. .	<i>n.a.</i>	320,000	333,000	364,000	379,000	394,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Finland (b) .. .	248,527	298,063	289,440	292,461	251,000	254,000	105,000	126,000	123,000	124,000	105,000	107,000
Bulgaria (b) .. .	<i>n.a.</i>	<i>n.a.</i>	70,200	88,685	82,713	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	30,000	37,000	35,000	<i>n.a.</i>
France (e) .. .	294,611	300,531	298,996	318,508	327,329	289,738	135,263	133,240	134,704	138,693	141,200	124,000
Germany (Federal) .. .	557,334	627,518	634,238	596,223	556,553	462,123	212,545	251,311	253,404	237,166	223,875	188,863
Germany (East) .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	46,000	48,000	53,000	53,000	51,000	49,000
Greece .. .	206,502	229,126	237,014	230,775	160,304	197,000	90,000	100,000	103,000	101,000	75,000	87,000
Italy .. .	1,231,188	1,296,208	1,356,040	1,448,167	1,490,413	1,497,999	563,000	592,000	610,000	652,000	670,000	674,000
Norway .. .	782,359	830,450	839,515	830,207	780,286	731,426	343,696	361,775	363,000	360,000	339,000	320,000
Poland .. .	150,879	139,000	152,000	207,000	208,000	d 210,000	d 60,000	55,608	60,800	76,000	75,000	76,000
Portugal .. .	575,157	660,154	659,198	656,237	588,719	621,572	258,821	297,070	296,639	301,869	270,810	285,923

(a) Saleable.
 (b) Pyrite concentrate only.
 (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): 1954—1,296; 1955—6,577; 1956—6,780; 1957—6,993; 1958—7,517; 1959—8,000.

PRODUCTION OF PYRITES (cont.)

Long tons

Producing Country	1954					1955					1956					1957					1958					1959				
	OTHER COUNTRIES (cont.)										Estimated Sulphur Content																			
Roumania ..	190,000	179,000	178,000	174,000	c 174,000	c 175,000	76,000	72,000	71,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000		
Spain ..	1,864,227	2,289,598	2,259,365	2,224,584	2,014,052	2,086,086	904,000	1,110,000	1,090,000	1,041,300	1,041,300	1,041,300	1,041,300	1,041,300	1,041,300	1,041,300	1,041,300	1,041,300	1,041,300	1,041,300	1,041,300	1,041,300	1,041,300	1,041,300	1,041,300	1,041,300	1,041,300	1,041,300		
Sweden ..	32,894	387,850	485,670	493,714	329,472	341,000	193,562	191,008	238,938	244,595	244,595	244,595	244,595	244,595	244,595	244,595	244,595	244,595	244,595	244,595	244,595	244,595	244,595	244,595	244,595	244,595	244,595	244,595		
Yugoslavia (a) ..	157,580	223,102	251,905	307,663	326,000	285,000	71,000	100,000	113,000	138,000	147,000	147,000	147,000	147,000	147,000	147,000	147,000	147,000	147,000	147,000	147,000	147,000	147,000	147,000	147,000	147,000	147,000	147,000		
Algeria ..	33,000	21,330	5,968	18,500	24,261	28,591	14,500	9,380	2,510	7,800	10,700	10,700	10,700	10,700	10,700	10,700	10,700	10,700	10,700	10,700	10,700	10,700	10,700	10,700	10,700	10,700	10,700	10,700		
Morocco ..	1,535	1,000	1,524	6,161	18,159	14,190	650	600	600	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000		
Cuba ..	105,000	128,984	61,039	35,638	33,334	70,645	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
United States (b) ..	908,715	1,006,943	1,069,904	1,067,396	974,114	1,056,617	405,310	409,826	431,687	436,012	436,012	436,012	436,012	436,012	436,012	436,012	436,012	436,012	436,012	436,012	436,012	436,012	436,012	436,012	436,012	436,012	436,012	436,012		
Venezuela ..	r 385	r 49	r 59,200	r 59,000	14,067	—	n.a.	n.a.	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000		
Formosa ..	23,868	28,559	29,194	32,746	32,499	33,243	9,100	10,700	11,122	12,300	12,300	12,300	12,300	12,300	12,300	12,300	12,300	12,300	12,300	12,300	12,300	12,300	12,300	12,300	12,300	12,300	12,300	12,300		
Japan ..	2,635,554	2,692,929	3,048,576	3,324,390	3,305,546	3,336,268	1,106,277	1,149,647	1,295,676	1,403,712	1,378,442	1,403,712	1,403,712	1,403,712	1,403,712	1,403,712	1,403,712	1,403,712	1,403,712	1,403,712	1,403,712	1,403,712	1,403,712	1,403,712	1,403,712	1,403,712	1,403,712	1,403,712		
Korea (South) ..	—	—	—	541	277	506	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Philippine Republic ..	5,202	30,296	—	17,566	18,693	24,791	2,080	13,600	—	7,900	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000		
Turkey ..	15,135	16,137	22,724	47,767	80,302	87,275	7,300	7,700	10,900	22,700	39,000	39,000	39,000	39,000	39,000	39,000	39,000	39,000	39,000	39,000	39,000	39,000	39,000	39,000	39,000	39,000	39,000	39,000		
TOTAL*	r 11000000	r 11900000	r 12400000	r 12800000	12,300,000	12,400,000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
WORLD'S TOTAL*	r 13000000	r 14200000	r 15100000	r 15700000	15,100,000	14,800,000	r 6,000,000	r 6,300,000	r 6,700,000	r 6,900,000	r 6,600,000	r 6,600,000	r 6,600,000	r 6,600,000	r 6,600,000	r 6,600,000	r 6,600,000	r 6,600,000	r 6,600,000	r 6,600,000	r 6,600,000	r 6,600,000	r 6,600,000	r 6,600,000	r 6,600,000	r 6,600,000	r 6,600,000	r 6,600,000		

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

EXPORTS OF PYRITES

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Rhodesia and Nyasaland—						
Iron pyrites	26,774	3,706	12,844	19,662	33,824	1,972
Canada—						
Pyrites (<i>S content</i>) ..	168,400	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Cyprus—						
Iron pyrites	687,954	753,640	821,727	762,501	819,835	659,370
Cupreous pyrites ..	125,370	139,230	171,032	226,334	228,821	307,026
Australia (<i>a</i>)	—	—	20	—	—	—
OTHER COUNTRIES						
Austria	71,833	35,190	27,824	26,899	15,691	19,451
Belgium-Luxemburg						
E.U.	—	—	—	888	4,786	—
Finland—						
Concentrate	72,069	75,182	41,538	24,066	3,394	40,969
France	147	108	—	—	—	—
Germany (Federal)—	16,509	30,747	6,377	10,925	6,250	6,643
Greece	137,827	121,343	203,114	183,884	79,088	35,792
Italy—						
Iron pyrites	113,192	93,906	100,293	99,923	153,837	} 164,721
Cupreous pyrites ..	1,947	3,664	1,654	1,699	1,959	
Norway—						
Iron pyrites	162,142	145,118	} 460,362	442,573	388,590	401,708
Cupreous pyrites ..	252,856	320,071				
Portugal—						
Iron pyrites	375,676	441,928	401,042	292,332	351,749	350,932
Cupreous pyrites ..	2,255	2,297	1,716	3,220	1,910	2,077
Spain—						
Iron pyrites	1,539,996	1,504,992	1,484,769	1,384,942	1,061,651	982,010
Cupreous pyrites ..	18,551	21,510	30,466	38,128	58,431	41,391
Sweden	10,283	15,532	54,454	99,541	67,683	35,542
Yugoslavia	128,495	212,044	178,876	189,934	274,909	183,826
Algeria	—	—	591	—	—	10,383
Turkey	<i>n.a.</i>	<i>n.a.</i>	115,472	33,921	50,546	48,876

(a) Years ended June 30 of that stated.

IMPORTS OF PYRITES

Long tons

Importing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom ..	599,593	499,197	384,652	356,830	245,147	213,448
Irish Republic	47,474	37,977	44,371	18,314	29,445	36,204
OTHER COUNTRIES						
Austria	131,928	94,941	88,548	95,503	64,719	46,513
Belgium-Luxemburg						
E.U.	352,606	411,289	430,990	275,944	262,552	265,988
Czechoslovakia	<i>n.a.</i>	<i>n.a.</i>	85,000	102,000	66,000	49,000
Denmark	119,967	129,562	131,685	131,523	133,731	127,693
France	553,870	545,908	488,797	436,118	493,633	444,501
Germany (Federal) ..	1,038,417	1,126,257	1,307,094	1,478,298	1,306,900	1,313,029
Germany (East)	160,830	175,964	(a) 77,568	(a) 159,501	(a) 80,018	(a) 98,990
Hungary	92,393	101,558	85,359	133,571	150,551	109,288
Italy	135,121	206,926	285,435	318,466	217,972	154,328
Netherlands	482,263	474,002	598,434	360,885	328,119	373,584
Sweden	78,593	121,113	115,895	109,118	108,343	76,347
Algeria	6,671	16,595	19,436	14,299	14,343	2,286
Morocco	23,793	11,332	3,328	2,273	1,470	1,457
Tunisia	15,119	9,730	3,740	7,643	9,063	8,971
United States	279,569	358,165	365,816	353,032	343,060	280,638

(a) S content.

RARE EARTH AND THORIUM MINERALS

PRODUCTION OF RARE EARTH AND THORIUM MINERALS

Long tons

Producing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Nigeria—						
Monazite	—	—	77	93	57	13
Thorite (c)	—	<i>n.a.</i>	727	1,054	53	<i>n.a.</i>
Canada—						
Th content of concentrates (e)	—	—	—	—	—	24
Ceylon—						
Monazite	46	60	52	134	111	84
Malaya (a)—						
Monazite	349	249	631	490	428	236
Australia (b)—						
High-grade concentrates	71	149	93	132	423	331
Low-grade concentrates	106	44	146	—	—	—
OTHER COUNTRIES						
Belgian Congo—						
Monazite	4	4	1	—	—	—
Bastnaesite	369	319	350	236	3	—
Egypt—						
Monazite	8	1	6	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Malagasy Republic—						
Monazite	—	64	150	295	—	—
Bastnaesite	6	10	1	1	—	—
Uranothorianite (f)	—	<i>n.a.</i>	<i>n.a.</i>	355	477	572
United States (d)—						
Monazite, bastnaesite and thorite	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,804	1,021
Korea (South)—						
Monazite	989	<i>r</i> 500	181	<i>r</i> 350	317	58

Monazite is also produced in the Union of South Africa, India and Brazil 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.

EXPORTS OF RARE EARTH MINERALS, ETC.

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Nigeria—						
Monazite	—	—	77	93	57	13
Thorite (a)	—	<i>n.a.</i>	727	1,054	53	<i>n.a.</i>
Ceylon—						
Monazite	<i>n.a.</i>	30	—	—	—	—
Malaya—						
Monazite	349	249	631	490	428	236
Australia—						
Concentrates	76	107	56	145	102	150
OTHER COUNTRIES						
France—						
Monazite	1	—	—	—	—	—
Salts of rare earth minerals	55	464	<i>r</i> 104	<i>r</i> 116	220	132
Belgian Congo—						
Monazite	<i>n.a.</i>	<i>n.a.</i>	3	—	—	—
Bastnaesite	<i>n.a.</i>	<i>n.a.</i>	80	185	18	—
Malagasy Republic—						
Monazite	—	49	146	295	<i>n.a.</i>	<i>n.a.</i>
Bastnaesite	6	12	2	1	<i>n.a.</i>	<i>n.a.</i>
United States—						
Cerium ores, metals, etc.	13	9	11	6	13	12
Brazil—						
Cerium chloride	778	1,663	1,014	985	196	1,061

 (a) Between 5% and 6% ThO₂.

IMPORTS OF RARE EARTH MINERALS, ETC.

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Rare earth compounds ..	47	70	51	211	105	<i>n.a.</i>
Canada—						
Thorium and cerium salts	(£7,846)	(£10,053)	(£12,993)	(£27,020)	(£8,022)	(£16,206)
OTHER COUNTRIES						
France—						
Monazite	53	171	205	437	397	(b) 1,235
Salts of rare earth minerals	106	1,706	<i>r</i> 550	<i>r</i> 509	14	327
Germany (Federal)—						
Rare earth minerals	272	475	336	73	<i>n.a.</i>	<i>n.a.</i>
Salts of rare earth minerals	240	301	315	580	(a) 384	(a) 697
United States—						
Cerium ores	1	9	—	—	—	—

Rare earth minerals are also imported into the United Kingdom, Canada and the United States 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	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Rock-salt	43,184	69,770	99,236	88,133	116,482	142,831
Brine-salt	1,019,200	1,073,422	1,049,854	1,043,779	1,085,547	1,173,495
Salt in brine (a) ..	3,414,005	3,655,377	3,835,363	3,852,692	3,732,899	4,185,058
Malta—						
Sea-salt	2,770	970	1,320	1,146	1,435	1,065
Ghana (b)	22,000	22,000	22,000	22,000	22,000	22,000
Mauritius—						
Sea-salt	3,050	3,400	3,400	3,700	3,800	3,700
Nigeria (b)	220	250	300	400	554	400
South West Africa—						
Rock-salt	4,825	6,254	4,474	6,214	6,293	4,887
Other salt	41,779	52,257	73,441	58,957	80,000	44,600
Kenya	18,795	25,376	21,885	22,602	18,721	19,242
Tanganyika	21,394	23,521	27,870	25,792	35,232	36,722
Uganda	7,190	9,013	8,853	9,541	9,919	8,781
Union of South Africa ..	153,737	137,784	168,972	143,521	215,132	233,362
Canada—						
Rock-salt	72,011	245,629	570,224	706,237	696,512	1,111,523
Other salt (c)	788,129	873,898	857,052	875,727	1,411,200	1,850,118
British West Indies—						
Sea-salt—						
Bahamas (exports) ..	116,500	40,786	27,893	113,429	105,750	176,571
Leeward Islands (exports) ..	4,164	4,557	991	1,368	2,496	<i>n.a.</i>
Turks and Caicos Islands	9,589	6,279	13,742	15,872	20,000	31,546
Aden	210,000	264,340	248,000	198,000	155,000	175,000
Ceylon	49,960	36,325	107,843	84,742	17,883	30,253
Cyprus	4,688	—	4,487	6,336	5,048	5,351
India—						
Rock-salt	4,007	5,140	3,439	4,335	5,115	3,637
Other salt	2,713,269	2,882,000	3,186,000	3,608,000	4,160,000	3,124,000
Pakistan—						
Rock-salt	146,968	139,786	160,916	155,669	177,601	160,000
Sea-salt	250,538	258,876	227,486	296,643	193,837	126,000
Australia	(b) 380,000	369,323	408,689	r 427,600	429,534	454,863
New Zealand	1,500	3,000	11,400	<i>n.a.</i>	7,650	20,300
TOTAL	9,500,000	10,200,000	11,100,000	11,800,000	12,700,000	13,200,000
OTHER COUNTRIES						
Austria—						
Rock-salt	1,258	797	608	636	738	1,022
Evaporated salt	95,845	105,155	107,131	114,632	115,900	123,610
Bulgaria	81,689	32,479	57,084	73,000	110,000	(d) 110,000
Czechoslovakia	133,852	130,899	151,056	158,167	159,070	158,279
France—						
Rock-salt (incl. refined)	452,592	459,463	479,344	r 495,636	617,000	565,800
Salt in brine	1,972,263	2,073,783	2,323,614	r 2,419,542	2,040,000	2,167,800
Sea-salt	488,268	702,835	541,132	554,196	808,904	752,323

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

(b) Estimated.

(c) Including salt in brine.

(d) United States Bureau of Mines' estimate.

PRODUCTION OF SALT (cont.)

Long tons

Producing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (Federal)—						
Rock-salt, etc.	2,804,744	3,001,283	3,207,000	3,211,000	3,183,000	3,268,000
Brine-salt	305,657	329,485	318,000	319,000	333,000	324,000
Germany (East)	(a) 1,476,300	1,495,992	1,663,307	1,728,000	1,750,000	a 1,771,000
Greece—						
Sea-salt	77,452	70,992	91,531	8,000	94,000	96,000
Italy—						
Rock-salt and brine-salt	1,012,470	986,038	993,094	1,062,619	1,013,503	1,225,385
Sea-salt	711,051	828,384	816,499	r 708,473	n.a.	n.a.
Spring-salt	17,823	18,249	28,872	r 20,533	22,126	n.a.
Netherlands (brine-salt)	504,950	576,000	616,048	706,197	782,650	970,497
Poland—						
Rock-salt	375,700	378,800	388,800	372,000	386,000	500,000
Brine-salt	182,200	205,000	214,400	214,000	225,000	224,000
Other salt	595,000	634,000	646,000	695,000	974,000	1,075,000
Portugal—						
Rock-salt	52	47	17	27,832	58,482	61,282
Sea-salt (c)	2,248	1,243	3,533	2,627	3,131	1,488
Roumania	474,000	557,000	830,000	836,000	720,000	827,000
Spain—						
Rock-salt	399,295	443,882	487,418	504,735	551,239	550,294
Sea-salt	873,205	626,956	751,616	804,596	846,902	748,919
Other salt	26,089	24,341	36,660	7,133	16,414	17,373
Switzerland	114,647	120,515	117,326	128,823	122,575	135,058
Yugoslavia—						
Sea-salt	41,000	35,000	41,000	39,000	60,000	22,000
Evaporated salt	94,000	98,000	101,000	106,000	109,000	113,000
Algeria—						
Brine-salt and sea-salt	97,100	r 101,526	r 101,754	114,897	131,000	126,000
Angola	54,295	56,934	80,173	51,495	68,052	68,137
Belgian Congo (rock-salt)	829	451	502	271	477	569
Canary Islands (sea-salt)	17,784	19,895	19,000	14,634	14,945	12,981
Cape Verde Islands	20,827	21,479	r 21,630	19,393	7,697	19,949
Egypt	443,351	395,355	522,000	508,000	396,000	(a) 390,000
Ethiopia—						
Rock-salt	13,779	14,763	13,000	(a) 12,000	(a) 15,000	(a) 15,000
Sea-salt	177,386	178,212	130,203	140,000	n.a.	n.a.
French Somaliland	58,200	17,930	6,568	2,300	—	—
Libya (sea-salt)	15,000	14,602	15,000	—	12,000	15,000
Morocco (Southern)	31,580	39,511	27,531	—	—	—
Morocco (Northern)—						
Sea-salt	(b) 250	(b) 250	(b) 300	51,144	60,026	33,231
Mozambique—						
Rock-salt	98	137	71	57	5	n.a.
Sea-salt	13,168	r 14,712	r 12,144	16,670	21,526	n.a.
Sudan	54,759	23,059	54,286	53,436	53,000	n.a.
Tunisia (sea-salt)	162,400	r 131,000	133,000	148,000	167,000	84,000
Costa Rica	4,035	2,009	(b) 5,000	4,400	(a) 29,000	12,000
Cuba (sea-salt)	53,094	62,201	63,383	67,059	58,129	78,415
Dominican Republic—						
Rock-salt	42,178	17,646	32,618	42,653	43,233	62,818
Sea-salt	14,239	316	499	15,246	15,520	19,831
Guatemala (sea-salt)	n.a.	n.a.	16,253	16,505	15,395	15,642
Haiti (b)	29,900	29,900	5,000	10,000	10,000	10,000
Honduras	(b) 10,000	(b) 10,000	13,409	12,000	(b) 10,000	(b) 10,000
Mexico (b)	220,000	220,000	240,000	240,000	240,000	240,000
Netherlands Antilles	n.a.	n.a.	1,130	500	500	300
Nicaragua (sea-salt)	14,318	9,445	10,232	8,961	9,883	10,658

(a) United States Bureau of Mines' estimate.

(b) Estimated.

(c) Exports.

PRODUCTION OF SALT (cont.)

Long tons

Producing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Panama (sea-salt) ..	6,243	9,235	6,862	8,363	5,524	7,722
Salvador ..	37,192	47,738	49,108	49,109	<i>n.a.</i>	<i>n.a.</i>
United States (e)—						
Rock-salt ..	4,307,775	4,726,000	5,020,444	4,769,273	4,828,000	5,500,000
Salt in brine ..	10,815,721	11,986,000	13,004,262	12,963,164	11,378,000	13,413,000
Evaporated salt ..	3,323,000	3,550,000	3,587,000	3,557,000	3,358,000	3,551,000
Argentina ..	518,000	387,000	371,000	323,082	555,000	(b) 492,000
Bolivia ..	2,000	2,000	2,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Brazil (sea-salt) ..	664,658	571,645	734,472	785,203	939,923	840,978
Chile ..	44,398	50,777	27,301	33,000	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Rock-salt ..	169,697	172,368	191,424	216,120	193,760	210,104
Sea-salt ..	35,664	39,994	36,591	94,229	69,713	50,053
Brine-salt ..	105,574	108,585	114,026	196,874	143,410	<i>n.a.</i>
Ecuador (sea-salt) ..	157,000	34,346	25,588	24,037	19,000	21,000
Peru—						
Rock-salt ..	9,360	9,416	9,317	9,249	8,649	} 105,000
Sea-salt ..	70,120	75,738	76,639	96,969	85,996	
Brine-salt ..	3,104	2,992	7,634	6,042	9,103	
Venezuela (sea-salt) ..	82,097	61,165	36,995	84,324	86,817	76,494
Afghanistan ..	(a) 30,000	18,700	(a) 20,000	(a) 60,000	(a) 60,000	(a) 60,000
Burma—						
Sea-salt ..	94,626	103,549	85,198	113,668	109,066	110,048
Brine-salt ..	1,317	1,180	898	840	793	803
China ..	4,800,000	7,410,000	4,860,000	8,150,000	10,240,000	10,870,000
Formosa (sea-salt) ..	382,769	442,615	323,316	380,979	436,908	422,877
Cambodia ..	} 143,833	<i>n.a.</i>	23,300	30,000	30,000	<i>n.a.</i>
Laos ..			(a) 2,000	(a) 2,000	<i>n.a.</i>	<i>n.a.</i>
Vietnam (South) ..			79,722	86,590	106,144	<i>n.a.</i>
Indonesia ..	128,265	45,398	107,645	341,706	230,898	<i>n.a.</i>
Iran (b) (c) ..	(a) 246,100	262,783	275,578	295,262	(a) 295,000	(a) 295,000
Iraq (c) ..	30,300	(b) 19,156	(a b) 20,000	(a b) 20,000	(a b) 20,000	(a b) 20,000
Israel ..	(a) 20,000	(a) 10,000	(a) 25,000	(a) 27,000	33,160	33,451
Japan—						
Government-licensed plants (d) ..	423,110	552,978	616,932	818,915	1,041,046	1,146,790
Jordan (brine-salt) ..	10,341	7,583	9,981	9,946	10,725	15,500
Korea (South) ..	177,284	r 348,544	r 193,830	r 363,360	429,516	383,733
Lebanon (sea-salt) (a) ..	8,000	10,000	15,000	12,000	15,000	15,000
Philippine Republic—						
Sea-salt ..	47,313	78,733	62,595	114,285	137,433	171,788
Portuguese India ..	13,266	6,069	5,507	9,361	4,486	3,811
Syria ..	14,511	13,738	32,256	33,246	(b) 39,000	(b) 20,000
Thailand (a) ..	230,000	250,000	250,000	220,000	340,000	350,000
Turkey—						
Rock-salt ..	29,611	27,996	28,095	8,996	35,131	34,226
Lake and spring salt ..	197,590	146,724	112,995	} 440,787	{ 101,232	} 448,823
Sea-salt ..	246,102	192,277	232,748		{ 344,220	
TOTAL* ..	r49,000,000	r54,000,000	r54,000,000	r58,000,000	59,000,000	63,000,000
WORLD'S TOTAL* ..	58,000,000	r64,000,000	r65,000,000	r70,000,000	72,000,000	76,000,000

*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.

EXPORTS OF SALT

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Rock-salt	5,507	5,017	} 265,155	271,987	287,577	216,845
Other salt	248,823	271,329				
Kenya	1	1,332	1,230	586	64	18
South West Africa—						
Rock salt	1,786	1,679	1,709	1,965	1,596	1,831
Coarse salt	19,054	30,820	38,678	36,524	41,091	37,788
Other salt	138	263	555	583	577	398
Tanganyika	6,846	8,184	9,280	8,442	8,676	11,869
Uganda	2,174	2,077	2,241	2,309	1,966	2,270
Union of South Africa	14,000	8,222	7,738	9,041	11,458	11,344
Canada	1,070	130,778	298,156	408,828	363,131	1,137,569
British West Indies—						
Bahamas (b)	116,500	40,786	27,893	113,429	105,750	176,571
Leeward Islands	4,164	4,557	991	1,368	2,496	n.a.
Turks and Caicos Islands	11,687	13,817	15,781	21,028	18,156	19,095
Aden	193,759	243,766	217,000	r 342,350	147,050	168,507
Ceylon	60	—	48	—	—	—
Hong Kong	1,731	1,898	717	297	194	529
India—						
Trade by sea	194,596	199,589	256,213	} 375,382	252,996	340,765
Trade by land	(c) 5,761	(c) 2,965	1,312			
Malaya	8,882	7,209	5,384	7,675	12,472	2,754
Pakistan	(c) —	(c) —	93,380	5,663	6,799	15,619
Australia (a)—						
Refined salt	13,347	765	132	909	113	857
Other salt	5,092	20,477	23,581	18,891	19,091	18,470
OTHER COUNTRIES						
Austria	149	44	—	5,441	1,274	15
Belgium-Luxemburg						
E.U.—						
Common salt	44	61	637	148	90	185
Refined salt	20	35	17	39	127	148
Denmark—						
Refined salt, etc.	391	620	381	234	313	185
France	59,359	92,184	83,579	72,490	87,035	103,420
Germany (Federal)	711,548	749,540	846,951	726,793	697,342	669,846
Italy—						
Rock-salt and sea-salt	106,458	130,691	119,226	99,020	63,197	40,665
Netherlands—						
Rock-salt	305	69	475	3,398	5,294	7,652
Refined salt	280,812	324,933	365,598	437,328	450,019	536,609
Norway—						
Common salt	4,613	3,646	9,476	6,176	5,132	4,221
Refined salt	290	144	558	901	412	15
Poland	140,200	136,900	115,000	93,000	102,000	118,000
Portugal	2,248	1,243	3,533	2,627	3,131	1,488

(a) Years ended June 30 of that stated.

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

(c) Years ending March 31 following that stated.

EXPORTS OF SALT (cont.)

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Roumania	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	134,000	151,900
Spain	328,258	398,892	325,795	318,889	354,925	435,712
Sweden	1,518	1,709	826	269	40	35
U.S.S.R.	<i>n.a.</i>	83,300	105,600	105,600	92,100	68,200
Algeria	42,001	47,788	47,024	32,152	36,898	40,458
Angola	19,613	19,991	23,723	33,134	22,701	23,518
Cape Verde Islands	18,316	16,825	17,858	22,053	20,224	20,019
Egypt	325,753	223,473	216,203	177,530	327,886	230,144
Ethiopia (b)	93,847	49,772	68,215	94,256	46,325	73,041
French Somaliland	19,661	28,034	6,752	49,057	—	—
Malagasy Republic	1,642	1,625	2,339	1,165	2,163	2,073
Mozambique	754	1,303	2,337	7,130	4,756	4,323
Morocco	880	1,551	944	<i>n.a.</i>	51	104
Sudan	3,726	24,651	21,272	44,569	22,504	34,745
Tunisia	73,124	125,672	74,319	122,895	128,329	135,142
Cuba	109	258	262	272	204	<i>n.a.</i>
Dominican Republic	18,135	14,833	32,054	32,749	44,370	54,738
Honduras	268	174	54	621	2,002	4,393
Mexico	1,025	763	1,554	59,800	120,265	208,490
Netherlands Antilles	<i>n.a.</i>	125	199	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Salvador	1,036	1,084	1,010	419	582	739
United States	343,981	363,509	300,286	348,846	324,115	378,883
Argentina	23,443	23,624	26,648	43,221	26,429	21,747
Brazil	—	2,953	—	—	—	—
Peru	—	26	29	287	198	104
Formosa	214,004	232,932	193,924	197,958	285,996	283,103
Indo-China	51,080	(c)	(c)	(c)	(c)	(c)
Iran (a)	17,876	<i>n.a.</i>	21,997	1,675	1,082	<i>n.a.</i>
Japan	14	—	—	1	98	99
Portuguese India	6,147	—	1,076	476	5,229	419
Thailand	188,495	171,096	260,910	219,647	243,272	257,105
Turkey	—	16,150	54,920	27,922	—	31,396
Vietnam	(d)	52,131	34,842	69,006	29,122	82,315

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

(b) Years ended September 10 of that stated.

(c) See under Vietnam.

(d) See under Indo-China.

IMPORTS OF SALT

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Salt for use of fisheries ..	31,453	45,103	47,750	26,539	49,698	53,731
Other salt	669	2,912	3,721	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Channel Islands	605	661	643	667	667	621
Malta—						
Refined salt	(£3,355)	(£2,777)	(£3,160)	(£4,434)	(£3,869)	(£5,683)
Other salt	920	848	836	667	412	675
Gambia	811	451	385	429	810	406
Ghana	6,342	9,138	10,099	13,683	17,465	10,620
Kenya	2,043	2,173	5,407	332	4,194	2,874
Mauritius	614	56	4	8	10	7
Nigeria	91,423	98,173	102,285	92,243	103,834	99,755
Rhodesia and Nyasaland	30,710	28,662	29,547	32,034	31,211	34,705
Seychelles	262	579	410	200	578	251
Sierra Leone	5,014	6,792	6,432	5,961	7,225	6,204
Somaliland Protectorate	63	20	34	—	81	12
South West Africa	266	(a)	(a)	(a)	(a)	(a)
Tanganyika	2,484	2,140	342	643	957	798
Uganda	7,758	4,366	10,241	11,374	13,442	15,528
Union of South Africa—						
Rock-salt	744	(b) —	(b) —	(b) 4	(b) —	(b) 161
Common salt and refined salt	17,544	(b) 6,639	(b) 2,261	(b) 2,828	(b) 5,110	(b) 3,541
Zanzibar	881	1,074	1,288	1,900	1,156	1,333
Canada—						
Salt for use of fisheries ..	52,451	44,305	52,666	71,587	50,872	56,955
Refined salt	21	35	40	86	37	156
Other salt	278,253	281,759	232,227	256,435	253,454	273,217
British Honduras	432	442	441	460	485	603
British West Indies—						
Barbados	2,141	2,677	2,096	2,373	2,085	2,418
Bermuda	150	144	160	159	150	326
Dominica	341	38	287	<i>n.a.</i>	390	422
Grenada	583	512	747	879	643	<i>n.a.</i>
Jamaica—						
Rock-salt	247	133	41	29	17	24
Other salt	9,683	11,293	r 12,209	11,680	12,736	12,211
Leeward Islands	224	248	322	152	<i>n.a.</i>	<i>n.a.</i>
St. Lucia—						
Common salt	448	481	495	756	426	341
Refined salt	41	28	49	62	63	85
St. Vincent—						
Unrefined salt	364	221	205	181	329	124
Refined salt	50	149	324	289	318	230
Trinidad and Tobago—						
Rock and coarse salt ..	600	775	519	626	803	674
Refined salt	4,150	5,231	3,891	12,188	5,056	5,259
British Guiana—						
Rock and coarse salt ..	379	51	250	390	120	315
Refined salt, etc.	1,905	2,136	2,027	2,301	2,172	2,242
Aden	33	95	40	42	—	37
Brunei	198	246	230	304	292	298

(a) Included with Union of South Africa.

(b) Including South West Africa.

IMPORTS OF SALT (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES (cont.)						
Ceylon—						
Refined salt	4	5	3	5	7	10
Other salt	41	40	30	12	7	132
Cyprus	64	117	206	207	172	233
Hong Kong	30,022	32,599	26,586	33,287	24,720	30,796
India	431	28	20	87	17	365
Malaya—						
Refined salt	161	240	195	211	243	278
Other salt	73,824	78,585	59,368	76,173	90,209	69,807
North Borneo	2,312	2,687	2,507	2,480	4,128	3,073
Pakistan (a)	(c) 5,761	(c) 2,965	1,312	1,750	2,860	2,170
Sarawak	4,152	3,880	3,966	4,260	4,986	4,849
Australia (b)—						
Rock-salt	3,433	2,755	2,261	2,504	3,147	1,246
Refined salt	3,087	2,440	2,250	1,400	1,783	1,054
Other salt	1,811	3,320	2,915	1,746	5,018	5,590
Fiji	1,417	1,330	2,277	927	1,441	1,563
New Guinea (b)	357	711	649	812	854	966
New Hebrides	119	157	91	90	142	161
New Zealand	51,267	r 54,887	r 59,144	r 47,802	48,052	45,833
Papua (b)	180	239	216	368	769	936
Solomon Islands (c)	28	24	22	29	30	27
Western Samoa	159	179	276	259	231	297
Irish Republic—						
Refined salt	1,205	1,939	2,034	2,176	3,507	4,568
Other salt	30,922	27,306	26,462	30,441	29,917	28,514
OTHER COUNTRIES						
Austria—						
Common salt	46	17	55	34	21	10
Belgium-Luxemburg E.U.—						
Common salt	420,751	448,150	456,207	460,556	429,686	493,253
Refined salt	76,731	78,576	91,246	65,689	78,010	71,751
Denmark—						
Rock-salt	1,208	1,169	1,018	322	60	50,655
Refined salt	111,838	121,124	124,996	128,542	135,632	86,136
Faroe Islands	20,311	11,218	11,626	19,340	20,262	n.a.
Finland—						
Common salt	124,539	139,808	135,828	152,656	161,429	183,740
France	35,402	50,057	59,814	46,847	48,356	47,279
Germany (Federal)	127	196	384	569	923	7,329
Iceland—						
Common salt	54,993	55,108	69,058	52,585	45,333	37,432
Refined salt	131	184	110	95	156	189
Italy—						
Rock and sea-salt	2,020	1,843	830	40	124,577	41,822
Netherlands—						
Rock-salt	60,355	58,552	69,820	45,055	42,911	24,606
Sea-salt, etc.	6,746	5,390	4,548	1,525	7,474	7,438
Refined salt	19	21	29	35	33	38
Norway—						
Common salt	189,549	229,687	265,670	234,596	204,616	152,872
Refined salt	32,950	33,345	34,896	34,571	32,426	61,058
Portugal	91	100	901	70,756	151	182
Sweden	311,223	330,192	406,307	409,549	444,443	454,869
Switzerland	452	492	443	610	736	1,008

(a) Exports from India to Pakistan by land.

(c) Years ended March 31 following that stated.

(b) Years ended June 30 of that stated.

IMPORTS OF SALT (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Yugoslavia	—	29,513	83,379	75,353	48,159	38,154
Algeria	153	171	155	231	219	284
Belgian Congo	38,376	39,555	49,686	38,146	46,890	49,809
Cameroon (French)	11,134	10,334	10,813	12,313	11,071	12,751
Canary Islands	4,317	3,140	646	943	369	1,290
Ceuta	4,310	5,073	5,364	2,078	752	862
Egypt	178	130	69	3	9	8
Ethiopia (a)	5,466	1,762	2,524	824	1,787	1,387
French Equatorial Africa	6,127	7,647	8,112	8,144	10,721	8,240
French Togoland	5,406	4,300	6,414	6,329	11,494	5,552
French West Africa	13,779	18,700	15,747	11,700	14,438	18,500
Liberia	1,777	1,701	1,488	2,113	266	1,396
Malagasy Republic	1,826	804	239	1,990	151	194
Melilla	541	235	649	589	979	1,024
Morocco	10,103	7,042	11,528	<i>n.a.</i>	2,296	4,134
Mozambique	2,301	4,044	4,190	9,626	6,956	2,021
Reunion	1,738	1,447	1,670	1,127	1,496	<i>n.a.</i>
S. Tome and Principe	431	512	539	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sudan	338	88	66	<i>r</i> 93	17	59
Costa Rica	313	138	176	143	142	156
Cuba	9,472	9,397	8,145	6,918	5,497	<i>n.a.</i>
French West Indies—						
Guadeloupe	1,630	1,783	1,686	1,242	596	<i>n.a.</i>
Martinique	1,773	1,265	3,174	1,538	2,040	<i>n.a.</i>
Greenland	7,045	13,990	17,738	12,205	15,051	<i>n.a.</i>
Guatemala	63	78	69	42	82	<i>n.a.</i>
Honduras	820	866	1,154	790	934	750
Mexico	1,085	1,013	1,431	1,222	1,434	7,048
Netherlands Antilles	396	464	604	628	550	568
Nicaragua	535	937	648	466	421	574
St. Pierre and Miquelon	2,447	1,090	850	2,129	604	593
Salvador	218	200	64	654	2,004	4,344
United States	143,545	165,762	328,760	<i>r</i> 581,112	545,574	914,847
Bolivia	212	218	245	4	5	53
Brazil	34	17	24	38	19	10
Colombia	39	107	3	8	31	3
French Guiana	291	243	266	281	224	<i>n.a.</i>
Peru	38	1	54	1	8	86
Surinam	950	905	1,037	928	878	<i>n.a.</i>
Uruguay	30,364	55,953	31,013	54,614	31,139	57,484
Burma	347	381	303	617	325	286
Indo-China	866	(c)	(c)	(c)	(c)	(c)
Indonesia	28	23	122,121	113,042	6,288	84
Iran (b)—						
Common salt	141	<i>n.a.</i>	523	63	4	<i>n.a.</i>
Refined salt	—	<i>n.a.</i>	10	30	96	<i>n.a.</i>
Iraq	55	102	50	32	43	<i>n.a.</i>
Japan	1,715,993	1,993,037	2,267,414	2,053,208	1,674,643	1,911,882
Laos	(d)	2,415	1,329	<i>n.a.</i>	<i>n.a.</i>	675
Lebanon	6,246	10,157	6,079	6,429	6,270	4,421
Syria	15	—	9	441	410	47
Philippine Republic—						
Crude	428	<i>n.a.</i>	5,113	6,348	7,259	2,943
Refined	1,236	<i>n.a.</i>	1,973	1,012	485	170
French Polynesia	<i>n.a.</i>	431	255	291	285	<i>n.a.</i>
New Caledonia	455	434	306	464	449	444

(a) Years ended September 10 of that stated.

(c) See under Laos.

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

(d) See under Indo-China.

SELENIUM

PRODUCTION OF SELENIUM

Lb. avdp.

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Northern Rhodesia (a) ..	14,352	17,160	32,055	24,206	24,388	32,587
Canada	323,529	427,109	330,389	321,392	306,990	564,415
Australia	3,442	2,455	2,581	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
OTHER COUNTRIES						
Belgium (b)	65,036	61,068	81,571	24,471	48,900	124,600
Finland	5,567	7,580	8,370	9,220	13,051	13,000
Sweden	166,235	139,841	168,532	143,054	84,135	133,170
Mexico	14,703	132,758	201,886	175,480	107,580	8,891
United States (c) (d) ..	713,244	699,296	928,400	(e)1,077,400	(e) 727,400	(e) 799,097
Peru	4,057	7,425	3,944	6,951	8,419	8,000
Japan	92,345	127,055	162,917	154,337	182,410	229,488
WORLD'S TOTAL ..	1,402,500	1,621,700	1,920,700	1,940,000	1,500,000	1,900,000

(a) Contained in copper slimes exported for treatment.

(b) Exports.

(c) Including selenium content of compounds.

(d) In addition secondary selenium recovered was as follows: 1954—126,532 lb.; 1955—152,317 lb.; 1956—188,700 lb.; 1957—*n.a.*; 1958—*n.a.*; 1959—*n.a.*

(e) Including secondary.

EXPORTS OF SELENIUM

Lb. avdp.

Exporting Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Rhodesia and Nyasaland (a)	14,354	17,160	32,055	24,206	24,805	32,587
Canada (b)	344,292	334,215	409,729	228,051	250,351	325,712
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.	65,036	61,068	81,571	24,471	48,900	124,600
Germany (Federal) ..	23,149	14,771	32,628	49,384	63,300	70,300
Sweden	154,324	134,482	138,891	99,208	117,000	161,000
Mexico	14,614	132,758	201,866	175,267	103,562	—
Peru	3,677	6,726	4,839	5,284	9,339	8,084
Japan	84,700	<i>n.a.</i>	64,351	66,084	108,410	105,019

(a) Contained in copper slimes exported for treatment.

(b) Including salts.

IMPORTS OF SELENIUM

Lb. avdp.

Importing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom ..	190,612	179,088	193,150	141,864	122,987	201,167
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.	220	2,205	7,496	4,409	2,400	2,000
France (b)	36,156	45,415	68,784	42,108	50,700	50,500
Germany (Federal) ..	155,646	137,789	120,152	107,806	141,800	162,500
Italy	7,994	7,496	12,846	13,889	16,676	24,700
Sweden	—	2,205	41,881	<i>n.a.</i>	<i>n.a.</i>	4,000
United States (a) ..	209,596	191,928	234,969	172,678	204,311	273,929
Brazil	3,071	7,198	4,273	5,062	4,830	4,793
Peru	88	90	22	183	44	49

(a) Including salts.

(b) Including tellurium.

SILLIMANITE, Etc.

PRODUCTION OF SILLIMANITE, ETC.

Long tons

Producing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Bechuanaland Protectorate—						
Kyanite	1,834	750	876	107	—	—
Kenya—						
Kyanite					—	708
Mullite	4,018	2,706	—	—	536	755
Nyasaland—						
Kyanite	1,450	—	—	—	—	—
South West Africa—						
Kyanite and sillimanite	125	214	1,961	3,473	2,665	2,896
Union of South Africa—						
Andalusite				15,892	13,024	3,343
Sillimanite	16,227	17,285	27,004	28,313	17,779	40,935
India—						
Kyanite	42,330	11,741	20,135	23,504	26,650	16,238
Sillimanite	3,066	2,423	4,637	7,417	13,845	7,574
Australia—						
Sillimanite and andalusite (b)	2,337	(a) 2,679	(a) 2,181	(a) 2,302	(a) 1,696	(a) 3,633
OTHER COUNTRIES						
United States—						
Kyanite (c)	33,000	43,000	51,000	51,000	34,000	51,000
Korea (South)—						
Andalusite	—	—	—	—	1,218	2,177

(a) Including kyanite.

(b) In addition the following amounts of kaolinised sillimanite were produced (long tons): 1954—2,476; 1955—2,948; 1956—2,169; 1957—2,315; 1958—1,823; 1959—1,969.

(c) Estimated.

EXPORTS OF SILLIMANITE, ETC.

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Bechuanaland Protectorate—						
Kyanite	1,834	750	876	107	—	—
Kenya—						
Kyanite	3,634	2,855	293	—	536	1,787
Rhodesia and Nyasaland—						
Kyanite	1,335	—	—	—	—	—
South West Africa—						
Kyanite and sillimanite	22	67	808	3,732	2,479	1,929
Union of South Africa—						
Andalusite and sillimanite	6,417	10,663	17,571	30,437	21,262	37,699
India—						
Kyanite	22,216	r 26,948	26,564	24,457	19,158	22,335
Sillimanite	2,414	3,745	5,251	5,624	9,458	4,413
Australia (a)—						
Kaolinised sillimanite ..	10	n.a.	n.a.	n.a.	n.a.	n.a.
OTHER COUNTRIES						
France—						
Mullite	—	11	221	307	251	20
Italy—						
Mullite	—	125	343	149	—	299
United States—						
Kyanite, etc.	1,024	1,532	1,188	2,311	2,226	2,441

(a) Years ended June 30 of that stated.

IMPORTS OF SILLIMANITE, ETC.*

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom (a)—						
Kyanite, sillimanite, etc.	13,700	13,300	17,700	19,000	15,700	15,100
Canada—						
Kyanite, etc.	691	1,181	1,419	1,520	1,065	1,677
Australia (b)—						
Kyanite	66	402	118	656	534	—
Sillimanite	—	36	98	188	144	101
OTHER COUNTRIES						
France—						
Kyanite	1,708	1,770	(c) 2,592	(c) 4,346	(c) 3,817	(c) 1,230
Mullite	870	1,170	345	554	778	544
Germany (Federal)—						
Kyanite and sillimanite	5,318	8,997	8,381	12,535	9,253	10,388
Mullite	364	495	208	391	98	74
Italy—						
Kyanite and mullite ..	1,862	2,251	4,478	3,134	6,258	3,034
United States—						
Kyanite, sillimanite, etc.	4,309	6,769	6,206	5,356	1,754	5,030

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

(a) Figures represent exports from certain producing countries to the United Kingdom and are not necessarily complete.

(b) Years ended June 30 of that stated.

(c) Sillimanite minerals.

SILVER
PRODUCTION OF SILVER
(Metal content)

Fine troy ounces

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Great Britain	26,497	29,706	27,878	27,337	20,553	13,655
Bechuanaland Protectorate	292	189	215	35	44	41
Ghana (a)	48,214	39,284	32,966	25,390	45,762	16,839
Kenya	1,325	1,770	54,689	23,051	44,146	46,420
Nigeria	182	172	111	200	—	—
Northern Rhodesia (b)	403,661	412,191	610,370	520,543	558,535	948,459
Southern Rhodesia	81,657	76,837	76,870	74,179	264,630	328,947
South West Africa (c)	855,290	1,279,213	1,880,055	1,725,648	1,395,110	1,740,568
Swaziland	—	—	14	—	—	—
Tanganyika (d)	211,478	343,468	561,848	521,623	737,578	535,371
Uganda (a)	85	70	52	21	37	54
Union of South Africa	1,235,418	1,461,336	1,598,279	1,767,472	1,795,384	2,020,780
Canada	31,117,949	27,984,204	28,431,847	28,823,298	31,163,470	32,329,137
India	161,185	153,935	104,604	125,838	109,800	124,800
Australia	13,827,038	r14,572,033	r14,609,922	r15,779,514	16,284,987	15,044,311
Fiji	24,575	19,707	24,302	24,425	25,375	23,649
New Guinea	49,062	44,713	42,549	38,101	25,065	36,830
New Zealand	33,049	27,930	950	1,279	2,339	4,873
TOTAL	48,077,000	r46,447,000	r48,058,000	r49,478,000	52,473,000	53,215,000
OTHER COUNTRIES						
Austria	5,594	3,665	1,286	1,286	—	—
Czechoslovakia (e)	1,608,000	1,608,000	1,608,000	1,608,000	1,608,000	1,608,000
Finland	239,459	224,573	318,453	373,592	560,709	522,739
France	555,951	628,065	541,869	703,590	770,270	833,000
Germany (Federal)	2,400,246	2,226,117	2,197,375	2,133,973	2,112,304	1,897,700
Germany (East) (e)	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000
Greece	85,360	77,869	79,091	93,462	99,410	64,300
Italy	r 784,390	838,250	r 1,008,400	r 937,210	1,020,700	894,500
Norway	131,271	70,700	55,000	63,000	—	—
Portugal	55,299	58,900	57,550	62,308	45,783	54,140
Spain	1,312,522	1,473,629	1,402,801	1,345,734	1,774,900	2,206,700
Sweden	2,215,604	2,397,738	2,562,414	2,512,163	2,944,300	3,098,100
Yugoslavia (refined)	2,829,400	2,983,600	2,760,000	2,589,700	3,751,700	2,827,300
Algeria (g)	230,000	225,000	230,000	235,000	225,000	400,000
Belgian Congo	4,533,000	4,083,000	3,794,000	3,044,900	3,794,000	4,758,000
Morocco	1,929,000	2,315,000	2,250,000	2,411,250	2,411,000	1,234,303
Mozambique	43	—	42	—	—	—
Tunisia	106,100	91,726	86,485	113,556	135,194	43,339
Costa Rica (f)	—	—	80	—	—	—

(a) Exports.

(b) Recovered from copper-refinery slimes.

(c) Accounted for by smelters.

(d) Including silver in lead concentrates exported amounting to 169,589; 300,322; 527,860; 500,945; 719,250 and 512,728 fine troy ounces in 1954; 1955; 1956; 1957; 1958 and 1959 respectively.

(e) United States Bureau of Mines' estimate.

(f) Imports into the United States from Costa Rica.

(g) Estimated.

PRODUCTION OF SILVER (cont.)

Fine troy ounces

Producing Country	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Cuba	164,235	259,440	284,202	(a) 252,728	(a) 325,278	(a) 215,000
Guatemala	284,000	343,111	533,179	528,436	320,621	(c) 88,000
Honduras	3,432,023	1,797,394	2,030,008	2,260,433	2,762,932	2,657,171
Mexico	39,896,467	47,957,655	43,078,040	47,149,514	47,592,360	44,075,452
Nicaragua	218,148	268,316	258,521	230,081	304,277	274,993
Salvador	256,772	230,054	167,740	172,306	197,629	(a) 188,000
United States	36,941,384	37,197,742	38,948,121	38,164,915	34,111,027	31,194,098
Argentina	1,639,688	1,414,633	1,671,838	1,350,331	1,543,200	1,549,600
Bolivia (b)	5,043,680	5,851,274	7,543,304	5,375,090	6,051,284	4,503,770
Brazil	126,449	140,113	171,524	348,160	185,313	225,050
Chile	1,525,500	1,580,200	2,106,200	1,672,100	1,765,642	1,800,000
Colombia	112,534	112,036	110,729	106,494	105,162	102,678
Ecuador	35,100	47,500	294,000	34,800	46,100	n.a.
Peru	20,405,883	22,947,625	22,972,766	24,845,258	25,918,353	24,767,581
Burma	1,278,289	1,537,895	1,365,154	1,526,810	1,487,264	1,969,954
Formosa	39,120	63,890	53,830	82,870	52,320	60,900
Japan	6,162,815	5,948,627	6,166,963	6,543,673	6,552,032	6,650,930
Korea (South)	r 50,255	r 79,620	r 196,415	r 277,346	247,788	241,900
Korea (North) (c)	80,000	160,000	260,000	320,000	320,000	320,000
Philippine Republic	527,160	502,069	541,168	479,216	497,987	504,085
Saudi Arabia	61,530	—	—	—	—	—
TOTAL*	143,000,000	153,000,000	153,000,000	156,000,000	157,000,000	148,000,000
WORLD'S TOTAL*	191,000,000	199,000,000	201,000,000	205,000,000	210,000,000	201,000,000

*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 25,000,000 troy ounces). An allowance, however, has been made for those other countries for which information is not yet available.

(a) Imports into the United States.

(b) Exports.

(c) United States Bureau of Mines' estimate.

EXPORTS OF SILVER*
(Metal content)

Fine troy ounces

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Refined bullion	12,049,160	11,392,486	} 75,836,726	39,331,255	12,390,683	10,137,065
Unrefined bullion	—	—				
Ghana—						
Bullion	48,214	39,284	32,966	25,390	45,762	16,839
Kenya—						
Refined bullion	—	—	—	22,960	44,146	46,411
Rhodesia and Nyasaland—						
Bullion	79,442	80,128	73,477	74,079	75,200	311,688
South West Africa—						
Concentrates (a)	<i>n.a.</i>	1,279,214	1,264,279	1,789,323	1,719,990	1,966,995
Tanganyika—						
Concentrates	169,638	300,322	527,860	500,945	719,250	512,728
Refined bullion	42,156	43,292	35,020	20,520	18,552	22,818
Uganda—						
Bullion	85	70	52	21	37	54
Union of South Africa—						
Bullion	66	643	634,266	1,318,673	1,125,205	1,860,220
Canada—						
Ore, concentrates, etc.	8,672,340	5,873,873	6,924,414	5,979,459	5,098,788	6,814,865
Bullion	14,467,015	16,598,577	14,341,753	12,799,990	16,026,550	15,140,830
Hong Kong—						
Bullion	585,000	1,033,000	1,322,000	943,000	677,000	434,000
India—						
Bullion	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	33,356,619	—	—
Malaya—						
Bullion	1,151,500	502,000	531,500	946,500	777,000	1,022,876
Australia (b)—						
Ores and concentrates	1,992,651	1,964,688	1,866,866	2,370,890	2,794,100	2,495,782
Silver-lead bullion	2,580,480	3,363,832	2,683,035	4,797,845	3,991,803	4,775,248
Bullion, refined	6,882,588	6,029,283	6,450,622	16,521,195	3,040,383	3,500,045
do. unrefined	11,620	84,582	3,000	46,690	8,790	—
Beaten, rolled or drawn	17,589	33,290	31,734	2,584	29,651	40,254
Fiji—						
Bullion	17,794	12,300	4,842	1,360	9,368	6,007
New Guinea (b)—						
Bullion	50,919	46,922	42,950	41,354	35,000	24,000
New Zealand—						
Concentrates	22,153	8,584	—	—	—	—
Scrap, sweepings, etc.	—	—	1,600	—	—	—
Beaten, rolled or drawn	20,000	3,000	300	—	—	—
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Bullion and scrap	3,494,000	2,432,000	3,778,000	3,858,000	4,315,000	11,545,000
Denmark—						
Bullion	43,500	40,000	35,000	49,000	48,000	50,000
Beaten, rolled or drawn	—	600	300	1,100	2,000	2,000
France—						
Bullion and scrap	2,036,000	2,325,000	4,261,000	2,432,000	2,334,000	1,454,000
Beaten, rolled or drawn	299,000	390,000	258,000	447,000	358,000	456,000

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

(a) Recoverable from lead complex concentrate.

(b) Years ended June 30 of that stated.

EXPORTS OF SILVER (cont.)

Fine troy ounces

Exporting Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (Federal)—						
Bullion	8,413,000	9,017,000	13,447,000	18,955,000	13,866,000	15,829,000
Italy—						
Bullion and scrap	—	1,000	—	500	57,000	<i>n.a.</i>
Netherlands—						
Bullion and scrap	10,023,000	18,768,000	19,798,000	5,268,000	4,949,000	1,680,000
Spain—						
Bullion	—	—	—	—	780,000	2,588,000
Sweden—						
Bullion	560,000	565,000	589,000	536,000	1,983,000	1,213,000
Switzerland—						
Bullion	303,000	169,000	16,000	157,000	331,000	72,000
Yugoslavia—						
Bullion	2,428,000	1,756,000	2,181,000	1,922,000	1,032,000	1,901,000
Belgian Congo—						
Bullion	41,000	34,000	34,000	29,000	39,000	30,000
Morocco—						
Bullion	617,000	525,000	587,000	79,000	200	—
Guatemala (a)—						
Ore and base bullion	15,351	213,806	358,353	251,294	189,000	2,000
Honduras—						
Bullion	3,432,023	1,962,532	1,921,672	2,230,839	2,762,932	2,792,165
Cuba (a)—						
Bullion, etc.	179,479	366,673	216,489	252,728	325,000	215,000
Mexico—						
Bullion, etc.	42,356,000	38,831,000	33,753,000	37,323,000	36,372,000	38,889,000
Nicaragua—						
Bullion	207,000	235,000	221,000	209,000	283,000	237,000
Salvador—						
Bullion	238,000	212,000	134,000	164,000	192,000	182,000
United States—						
Ore and base bullion	29,917	71,074	2,058,401	1,372,682	1,640,000	103,000
Refined bullion	1,672,618	4,821,635	3,442,479	8,926,674	1,093,000	9,077,000
Argentina—						
Bullion, etc.	—	—	—	360,000	622,000	540,000
Bolivia—						
Ores, etc.	5,043,680	5,851,274	7,543,304	5,375,090	6,051,284	4,504,126
Chile—						
Ores	1,220,521	1,533,437	1,546,310	1,448,610	1,399,052	1,562,105
Colombia—						
Bullion and scrap	—	14,000	79,000	15,000	391,000	—
Ecuador (a)—						
Ore and base bullion	50,190	42,491	49,689	53,138	63,000	107,000
Peru—						
Ores and concentrates	8,918,409	8,961,158	10,640,940	10,475,843	12,537,472	12,843,000
Bullion	10,002,418	11,004,196	10,083,953	10,233,361	11,473,233	11,857,528
Matte, slag, etc.	270,549	342,634	536,024	427,221	376,985	501,518
Burma—						
Bullion	725,357	340,240	1,303,691	1,155,593	1,289,738	1,195,585
Japan—						
Bullion and scrap	(b)4,013,000	(b) 963,000	644,000	37,000	174,000	24,000
Philippine Republic (a)—						
Ore and base bullion	412,376	278,512	249,437	285,496	263,000	158,000

(a) Imports into the United States from the country stated.

(b) Including alloys, and "beaten, rolled or drawn".

TOTAL IMPORTS OF SILVER*

(Metal content)

Fine troy ounces

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ores	3,467,000	4,472,000	4,326,000	5,138,000	5,586,000	4,249,000
Unrefined bullion	951,933	2,155,316	4,004,141	2,926,311	1,720,751	1,593,867
Refined bullion	22,167,632	27,296,133	16,286,379	13,032,752	11,560,848	16,831,670
Malta—						
Bullion	3,400	4,400	9,500	6,000	11,200	10,200
Ghana—						
Bullion	104,123	105,440	65,907	40,973	23,959	16,475
Nigeria—						
Bullion, etc.	r 4,200	24,030	16,730	6,433	5,329	45,337
Sierra Leone—						
Bullion	3,295	1,428	1,380	2,125	160	—
Union of South Africa—						
Bullion	—	6,242	4,225	5,571	—	38,000
Zanzibar—						
Bullion	—	—	600	60	3	—
Canada—						
Bullion	60,165	87,128	1,010,180	1,895,131	2,701	2,807,774
British Guiana—						
Bullion	800	—	1,300	1,600	2,400	2,000
British West Indies—						
Jamaica—						
Bullion	1,200	2,200	1,100	1,850	1,500	2,200
Trinidad and Tobago—						
Bullion	—	1,700	6,000	4,852	8,481	12,564
Ceylon—						
Bullion	1,200	5,000	2,000	523,000	5,000	14,500
Cyprus—						
Bullion	1,300	6,300	4,800	22,500	36,300	57,000
Hong Kong—						
Bullion	110,000	134,000	162,000	22,000	18,000	13,500
India—						
Bullion	—	399	10,822	68	2,002	4,079
Malaya—						
Bullion	300	600	400	20	1,000	—
Sarawak—						
Bullion	17,000	2,400	60	r 100	650	160
Australia (a)—						
Matte	—	4,148	2,900	—	—	—
Bullion	80,563	89,315	83,385	73,190	87,638	63,279
Beaten, rolled or drawn	101	9	19	—	—	—
Fiji—						
Bullion	280	—	—	—	—	—
New Zealand						
Bullion	59,123	r 41,945	41,038	r 64,736	58,895	62,072
Beaten, rolled or drawn	1,400	4,000	r 3,000	r 130,000	6,200	9,000
Irish Republic—						
Bullion	—	2,100	1,100	—	—	1,400

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

(a) Years ended June 30 of that stated.

IMPORTS OF SILVER (cont.)

Fine troy ounces

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
Austria—						
Bullion	174,000	1,174,000	1,564,000	5,559,000	5,255,000	3,069,000
Belgium-Luxemburg						
E.U.—						
Bullion and scrap ..	3,046,000	724,000	1,952,000	3,679,000	1,477,000	1,692,000
Denmark—						
Bullion	1,160,000	1,060,000	1,119,000	1,393,000	1,473,000	1,360,000
Beaten, rolled or drawn	1,009,000	1,141,000	1,168,000	1,066,000	1,250,000	1,662,000
Finland—						
Bullion, etc.	430,000	335,000	1,201,000	1,172,000	766,000	660,000
France—						
Bullion and scrap ..	9,379,000	9,116,000	12,526,000	10,856,000	11,380,000	19,094,000
Beaten, rolled or drawn	91,000	173,000	672,000	212,000	143,000	157,000
Germany (Federal)—						
Bullion	15,039,000	24,218,000	27,367,000	34,355,000	30,093,000	30,455,000
Italy—						
Bullion and scrap ..	7,712,000	7,020,000	5,447,000	5,535,000	5,055,000	<i>n.a.</i>
Netherlands—						
Bullion and scrap ..	1,704,000	1,608,000	1,622,000	1,390,000	1,234,000	2,780,000
Norway—						
Bullion	992,000	974,000	829,000	821,000	691,000	864,000
Beaten, rolled or drawn	1,015,000	992,000	1,103,000	960,000	1,210,000	1,207,000
Portugal—						
Bullion and scrap ..	1,147,000	2,010,000	2,853,000	4,065,000	3,272,000	2,559,000
Beaten, rolled and drawn	9,000	18,000	11,000	14,000	22,000	19,000
Sweden—						
Bullion	4,527,000	901,000	1,287,000	1,245,000	481,000	354,000
Switzerland—						
Bullion	5,800,000	5,400,000	4,331,000	6,506,000	5,173,000	3,041,000
Algeria—						
Bullion and scrap ..	74,000	121,000	124,000	135,000	100,000	64,000
Beaten, rolled or drawn	136,000	196,000	140,000	101,000	122,000	100,000
Belgian Congo—						
Bullion	4,000	46,000	35,000	26,000	48,000	67,000
Egypt—						
Bullion and scrap ..	7,000	16,500	11,000	1,000	3,000	<i>n.a.</i>
Guatemala—						
Bullion	—	54,000	204,000	80,000	323,000	<i>n.a.</i>
United States—						
Ore and base bullion ..	49,008,443	55,658,175	63,125,065	99,925,905	134,650,000	39,759,000
Refined bullion	41,888,631	28,861,015	99,706,716	106,192,994	31,316,000	29,329,000
Brazil—						
Bullion	1,106,000	284,000	434,000	568,000	345,000	313,000
Colombia—						
Bullion and scrap ..	487,000	1,041,000	812,000	320,000	—	9,000
Japan—						
Bullion and scrap ..	<i>n.a.</i>	<i>n.a.</i>	31,000	52,000	100	1,426,000
Turkey—						
Bullion, etc.	24,000	25,000	500	—	—	5,000

STRONTIUM MINERALS

PRODUCTION OF STRONTIUM MINERALS

Long tons

Producing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Celestite	2,100	4,750	9,200	6,900	5,600	6,000
Pakistan—						
Celestite	360	434	300	854	455	664
OTHER COUNTRIES						
Italy—						
Celestite	—	69	209	1,095	628	<i>n.a.</i>
Morocco—						
Strontium minerals	—	—	—	266	1,004	389
Mexico (a)—						
Celestite	1,723	1,786	2,130	1,820	2,135	2,269
United States—						
Strontium minerals	11	158	3,591	<i>n.a.</i>	—	<i>n.a.</i>
Argentina—						
Celestite	—	—	<i>r</i> 437	<i>n.a.</i>	214	<i>n.a.</i>

Strontianite is also produced in Germany.

(a) Exports.

EXPORTS OF STRONTIUM MINERALS, ETC.

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Celestite (a)	1,236	3,619	6,357	4,128	3,884	5,309
OTHER COUNTRIES						
France—						
Strontianite	2	5	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Oxide	—	—	—	—	—	5
Germany (Federal)—						
Strontianite and celestite	—	12	27	—	—	—
Italy—						
Strontianite and celestite	—	—	—	—	—	20
Tunis—						
Strontianite	—	689	—	—	—	—
Mexico—						
Celestite	1,723	1,786	2,130	1,820	2,135	2,269

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

IMPORTS OF STRONTIUM MINERALS, ETC.

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
New Zealand— Strontium compounds..	(£NZ265)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
OTHER COUNTRIES						
France— Celestite.. .. .	60	120	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Strontianite	—	579	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Germany (Federal)— Strontianite and celestite	321	438	637	445	317	446
United States— Strontianite and celestite	2,938	5,468	8,428	5,826	5,935	7,267
Strontium compounds..	3	3	2	—	5	1
Turkey— Strontium compounds..	1	2	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

SULPHUR
(see also Pyrites)
PRODUCTION OF SULPHUR

Long tons

Producing Country and Description	1954	1955	1956	1957	1958	1959	Estimated Sulphur Content				1959		
							1954	1955	1956	1957	1958	1959	
COMMONWEALTH COUNTRIES													
United Kingdom—													
Spent oxide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	145,400	129,821	130,248	126,129	117,247	101,399	
Anhydrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	233,500	280,912	(a)146,909	(a)156,489	(a)156,654	(a)156,373	
Other (b)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	40,800	45,891	52,973	39,142	49,561	53,173	
Canada—													
Smelter gas	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	197,542	200,408	210,793	209,931	215,228	248,396	
Hydrogen sulphide (d) (g)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	16,665	23,193	31,057	83,337	84,265	127,652	
Trinidad (h)	5,000	5,000	5,000	5,000	5,000	5,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Australia—													
Sulphur recoverable from:													
zinc concentrates	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	130,500	122,600	r 132,800	r 142,000	128,700	121,200	
lead concentrates	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	16,500	22,000	r 23,000	r 25,000	23,000	25,202	
Spent oxide	11,702	13,778	14,692	14,379	12,857	n.a.	4,680	5,511	5,877	5,751	5,154	3,655	
OTHER COUNTRIES													
France—													
Sulphur (d)	—	—	—	28,000	126,670	452,000	—	—	—	n.a.	n.a.	n.a.	
Germany (Federal)—													
Refined sulphur	n.a.	n.a.	77,126	76,568	75,565	78,474	n.a.	n.a.	77,126	76,568	75,565	78,474	
Germany (East)—													
Sulphur	86,970	93,985	92,748	100,190	104,679	106,153	86,970	93,985	92,748	100,190	104,679	106,153	
Greece—													
Sulphur rock	20,596	28,575	9,930	22,848	—	n.a.	2,500	3,400	1,200	2,700	—	n.a.	
Italy—													
Sulphur rock	1,712,990	1,756,314	1,699,905	1,681,801	1,473,889	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Fused (e)	194,063	181,628	168,060	r 175,981	158,665	119,272	194,063	181,628	168,060	175,981	158,665	119,272	
Ground sulphur rock (e)	22,803	21,560	22,213	19,904	18,656	21,342	6,800	6,500	6,700	6,000	5,600	6,400	
Norway (c)	99,086	98,863	95,381	95,148	89,126	77,111	99,056	98,833	95,353	95,055	89,027	77,034	
Portugal (c)	16,099	15,465	16,922	16,675	17,373	15,888	15,890	15,264	16,702	16,458	17,147	15,682	
Spain—													
Sulphur rock	39,736	45,819	46,181	29,585	27,435	25,922	4,114	5,531	5,743	3,356	3,055	2,851	
Refined sulphur (f)	43,327	57,079	64,803	62,174	25,251	25,719	43,327	57,079	64,803	62,174	25,251	25,719	

(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) Derived partly from sulphur rock above but in the main recovered from pyrites.
 (g) Sales.
 (h) Recovered from petroleum refineries. Estimated.

PRODUCTION OF SULPHUR (cont.)

Long tons

Producing Country and Description	Estimated Sulphur Content						1959
	1954	1955	1956	1957	1958	1959	
OTHER COUNTRIES (cont.)							
Sweden—							
Sulphur	27,425	28,419	30,338	33,309	33,465	37,576	37,576
Egypt (a)	3,736	3,755	2,950	3,445	n.a.	2,408	2,408
Mexico—							
Mined (f)	62,000	484,452	758,412	1,032,924	1,236,925	1,271,036	1,271,036
Refined sulphur (e)	19,918	25,728	14,577	41,642	27,641	46,231	46,231
United States—							
Crude sulphur (f)	5,514,640	5,738,978	6,423,883	5,491,212	4,643,243	4,553,634	4,553,634
Sulphur ore (g)	214,157	199,899	212,476	276,868	6,292	331,237	86,182
Smelter gas (b)	791,049	992,903	1,064,406	1,194,230	1,101,754	969,678	316,600
By-product sulphur (c)	361,391	401,134	467,136	512,388	641,890	688,487	686,407
Hydrogen sulphide and liquid sulphur dioxide c	85,255	106,129	102,300	102,157	106,527	104,887	88,046
Argentina—							
Refined sulphur	17,000	n.a.	18,587	16,981	25,221	25,207	25,207
Bolivia (i)							
Refined sulphur	2,566	3,976	3,418	783	392	—	—
Chile—							
Refined sulphur	49,207	50,376	37,271	17,400	n.a.	n.a.	n.a.
Colombia—							
Refined sulphur	5,100	5,400	5,000	(d) 5,000	6,700	9,000	9,000
Formosa—							
Refined sulphur	5,880	4,854	7,864	9,433	6,178	5,730	5,730
Iran—							
Sulphur (j)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Japan—							
Refined sulphur	184,744	199,675	243,312	253,547	178,052	215,965	215,965
Philippine Republic (h)	n.a.	n.a.	—	n.a.	n.a.	—	—
Turkey—							
Refined sulphur	9,837	11,318	13,680	12,900	12,622	13,174	13,161

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

(b) Estimated sulphur content of gas driven off in the smelting of lead, zinc and copper concentrates, recovered as sulphuric acid.

(f) Recovered from petroleum refineries.

(g) Produced in treatment of industrial gases.

(d) Estimated.

(f) Frasch-process mines.

(g) Other mines.

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

(i) Exports.

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

EXPORTS OF SULPHUR

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom ..	2,109	2,102	1,293	1,238	1,511	3,145
Union of South Africa ..	75	109	237	281	67	109
Canada ..	2,981	2,274	3,867	11,040	6,792	23,684
Trinidad and Tobago ..	1,013	2,208	—	—	—	—
Hong Kong ..	—	—	—	40	197	148
Malaya ..	7	3	21	93	1	25
Australia—						
Zinc concentrates (S content) (a) ..	68,000	r 69,300	68,400	82,900	67,100	49,000
New Zealand ..	1	5	7	8	—	17
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Crude ..	394	3	168	442	3	1,014
Refined ..	3,042	4,592	3,948	2,130	712	2,758
France—						
Crude ..	5,910	12,727	8,490	9,042	56,011	220,358
Unrefined ground ..	600	1,126	1,946	2,037	2,426	3,077
Refined lump ..	5,680	5,379	1,553	877	905	791
Flowers of sulphur ..	12	18	1,903	3,943	5,563	5,022
Precipitated sulphur ..	2	1	542	578	20	—
Germany (Federal) ..	15,707	19,700	24,178	25,879	26,251	25,582
Germany (East) ..	22,900	29,588	17,073	19,578	15,800	14,306
Italy—						
Crude ..	518	44,306	122,500	122,498	30,116	28,737
Refined ..	7,694	5,658	6,586	25,541	5,378	8,715
Flowers of sulphur ..	345	413	555	405	746	440
Precipitated sulphur ..	—	17	—	1	3	29
Netherlands—						
Crude ..	8,031	4,625	3,891	3,687	5,972	8,449
Refined ..	697	24	102	147	26	30
Norway ..	97,692	77,802	70,452	69,729	54,298	64,424
Portugal ..	651	573	469	1,294	645	405
Spain—						
Crude ..	—	—	—	5	—	—
Refined ..	—	—	—	3	10	—
Sweden ..	4,296	1,295	1,065	701	368	411
U.S.S.R. (a) ..	n.a.	29,200	25,100	40,300	41,200	51,000
Mexico ..	49	177,500	493,990	863,344	1,005,498	1,064,780
United States—						
Crude ..	1,645,000	1,600,951	1,651,307	1,578,359	1,577,919	1,611,908
Refined and flowers of sulphur ..	30,130	34,701	24,024	14,620	24,207	23,699
Bolivia ..	2,566	3,976	3,418	783	392	—
Chile ..	19,200	47,700	26,131	8	346	946
Colombia ..	—	98	—	492	—	—
Ecuador ..	52	2,211	316	n.a.	n.a.	n.a.
Peru ..	997	98	49	—	—	—
Japan ..	14,874	5,387	595	43	9,026	119
Turkey ..	—	837	5,413	—	—	—

(a) Estimated amount recoverable.

IMPORTS OF SULPHUR

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Sulphur	3,746,618	358,654	352,480	322,814	326,946	377,440
Wastes and residues	<i>n.a.</i>	<i>n.a.</i>	12,129	13,275	8,929	14,765
Malta—						
Crude	69	32	2	50	126	27
Flowers of sulphur	(£4,718)	(£8,060)	(£4,460)	(£3,800)	(£4,503)	(£8,225)
Kenya	40	111	131	203	236	225
Mauritius	25	1	93	94	2	37
Rhodesia and Nyasaland	65	19	32	76	46	78
South West Africa	49	(b)	(b)	(b)	(b)	(b)
Tanganyika	18	149	236	304	230	235
Uganda	117	602	261	854	495	215
Union of South Africa	66,123	(c) 93,910	(c) 111,295	(c) 104,064	(c) 126,821	(c) 114,028
British Guiana	—	—	—	1	1	—
Canada	276,899	333,352	421,557	372,015	339,581	296,812
Jamaica	3	4	1	9	5	5
Trinidad and Tobago	19	15	22	24	24	6
Ceylon	3,593	3,532	2,438	5,641	2,189	2,794
Cyprus	518	383	948	1,272	1,286	1,439
Hong Kong	1,098	1,421	776	859	544	713
India	65,664	83,589	83,427	115,491	117,928	143,345
Malaya	255	223	277	415	218	1,135
Pakistan	(a) 1,186	(a) 773	1,036	1,112	3,091	1,334
Australia	191,812	192,584	205,880	138,083	208,028	174,053
New Zealand	133,219	r 127,981	r 85,768	r 92,270	65,195	88,180
Irish Republic	192	286	1,628	5,737	6,649	7,279
OTHER COUNTRIES						
Austria	30,848	16,629	26,763	31,707	44,480	52,853
Belgium-Luxemburg						
E.U.—						
Crude	49,914	78,893	66,810	104,471	95,632	133,578
Refined	312	326	381	416	414	568
Czechoslovakia	<i>n.a.</i>	<i>n.a.</i>	25,000	28,000	37,000	58,000
Denmark	954	1,061	1,371	2,419	1,445	3,485
Finland	42,119	52,811	59,770	64,268	62,504	69,997
France—						
Crude	212,719	223,616	272,193	299,359	302,612	190,829
Unrefined ground	1,093	55	80	152	110	—
Refined lump	1	24	158	1	2	44
Flowers of sulphur	3,190	318	—	—	—	—
Precipitated	6	12	62	29	6	12
Germany (Federal)	36,287	55,902	62,415	63,844	63,415	100,251
Greece	9,392	12,499	9,290	9,210	8,222	13,185
Hungary	<i>n.a.</i>	17,470	13,060	22,403	17,951	<i>n.a.</i>
Netherlands—						
Crude	13	1,327	6,123	22,318	63,865	57,486
Refined	842	961	1,170	1,408	913	1,365
Norway	197	187	1,868	4,632	3,363	1,380
Portugal	171	2,657	1,602	2,628	1,825	2,710
Spain—						
Crude	2,867	6,193	14,065	—	2,953	14,776
Refined, etc.	12	20	45	21	38	15
Sweden	42,187	70,495	78,650	68,707	64,645	67,667
Switzerland—						
Crude and ground	66,775	75,582	45,551	36,298	42,531	34,832
Flowers of sulphur	219	257	267	255	170	304

(a) Years ended March 31 following that stated.

(b) Included with the Union of South Africa.

(c) Including South West Africa.

IMPORTS OF SULPHUR (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
U.S.S.R.	n.a.	12,300	57,000	92,300	65,200	63,000
Yugoslavia	5,799	5,737	69	3,635	6,843	7,957
Algeria—						
Crude	15,826	25,354	17,352	20,067	24,522	25,307
Unrefined, ground	275	649	1,362	1,098	1,611	1,843
Refined	754	683	444	431	487	202
Flowers of sulphur	3	9	20	—	82	306
Precipitated	—	—	331	451	23	—
Angola	44	154	69	149	220	197
Belgian Congo	107	120	294	163	408	135
Canary Islands—						
Crude	—	—	—	1,370	1,968	—
Refined, etc.	5,321	3,276	3,693	3,732	4,921	4,892
Egypt	4,563	6,880	9,135	14,460	7,830	13,223
Malagasy Republic	33	34	61	57	36	18
Morocco—						
Crude	7,141	6,987	3,450	3,992	6,493	9,198
Unrefined, ground	56	174	176	140	239	434
Refined	2,308	2,445	435	215	196	249
Flowers of sulphur	24	10	1,695	2,103	3,147	2,913
Precipitated	—	4	113	66	23	13
Mozambique	559	641	882	970	671	411
Tunisia—						
Crude and unrefined	18,257	23,613	38,125	1,554	7,392	2,137
Refined and flowers of sulphur	381	410	268	769	1,616	1,091
Costa Rica	71	39	10	45	12	73
Cuba	11,334	11,863	17,513	17,637	10,813	n.a.
Guatemala	173	80	125	193	293	n.a.
Mexico	5,632	8,587	105	207	441	238
Netherlands Antilles	15,201	4,004	n.a.	n.a.	5,002	4,987
Nicaragua	121	129	21	15	105	904
Salvador	88	81	95	161	76	15
United States	1,214	34,627	212,229	499,401	590,687	642,488
Argentina—						
Crude	1,202	—	21,291	43,235	38,558	25,809
Refined and flowers of sulphur	98	66	25	103	80	34
Brazil—						
Crude	83,637	64,269	91,787	98,058	93,970	103,782
Refined	6,547	1,671	1,281	2,199	242	327
Flowers of sulphur	151	134	115	433	—	—
Precipitated	49	53	41	71	47	44
Colombia	431	448	384	250	288	61
Ecuador	58	39	20	19	36	21
Peru	5,918	3,207	2,502	3,450	4,579	7,954
Uruguay	5,005	6,658	1,215	523	7,084	3,275
Venezuela	1,242	r 1,670	2,130	2,311	2,332	n.a.
Burma	152	278	210	1,596	493	535
Indonesia	6,013	10,682	9,941	7,396	7,880	11,254
Israel	3,384	n.a.	n.a.	n.a.	44,938	51,231
Japan	61	26	19,117	2,984	151	121
Jordan	173	383	521	475	773	1,189
Lebanon	761	982	1,159	1,812	3,863	5,751
Philippine Republic	3,715	1,106	1,814	2,152	2,480	1,374
Syria	461	552	619	743	580	853
Thailand	240	507	143	1,072	643	591
Turkey—						
Refined and flowers of sulphur	1,003	468	28	223	6	48

TALC

PRODUCTION OF TALC (Including Steatite and Pyrophyllite)

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Great Britain	3,970	5,036	3,813	3,800	4,147	5,683
Kenya (a)	99	—	—	—	—	—
Southern Rhodesia	2	—	—	—	—	—
Swaziland—						
Pyrophyllite	—	—	—	20	139	900
Union of South Africa (b)	7,120	1,412	1,757	2,066	683	1,261
Canada (c)	25,128	24,250	26,184	31,004	31,612	34,718
India	42,326	42,390	46,855	43,976	45,452	63,467
Pakistan	<i>n.a.</i>	259	1,100	1,174	1,586	<i>n.a.</i>
Australia—						
Talc	12,940	12,567	13,035	14,360	15,393	14,415
Pyrophyllite	184	266	339	358	267	347
OTHER COUNTRIES						
Austria	60,991	69,558	65,012	72,246	69,709	50,424
Finland	7,319	4,701	7,273	8,267	6,545	7,594
France	117,995	118,467	113,250	129,895	165,753	145,300
Germany (Federal)	48,051	49,617	50,425	42,789	42,784	42,736
Greece	1,139	2,070	2,000	2,000	1,752	<i>n.a.</i>
Italy	84,322	98,475	93,755	98,742	107,772	102,562
Norway	70,357	66,150	61,186	69,859	66,244	60,000
Portugal	5	10	85	—	—	217
Spain	20,443	22,471	27,508	31,331	29,786	27,376
Sweden	12,273	11,244	11,974	11,433	12,218	<i>n.a.</i>
Egypt	2,520	6,102	6,880	5,385	6,476	(e) 6,000
Morocco	—	—	—	—	4,833	3,496
United States—						
Talc	439,546	506,472	510,074	467,781	502,401	571,771
Pyrophyllite	113,127	141,482	149,782	143,337	138,818	138,058
Argentina	<i>n.a.</i>	23,000	25,000	23,428	(e) 23,700	(e) 23,700
Brazil	19,613	24,276	27,396	20,556	28,074	20,865
Paraguay	118	(e) 100	(e) 100	(e) 100	(e) 100	(e) 100
Peru—						
Talc	—	595	} 3,599	120	152	} 1,512
Pyrophyllite	—	2,715		2,280	1,700	
Uruguay	1,042	1,115	1,410	1,399	1,776	2,085
Afghanistan	640	600	803	(d) 700	(d) 700	(d) 700
Formosa	6,956	5,185	6,034	5,302	3,283	6,340
Japan—						
Talc	17,624	20,160	30,546	31,991	39,250	39,529
Pyrophyllite	202,194	204,374	278,246	386,857	298,245	438,275
Korea (South)—						
Talc	8,195	6,104	r 6,168	6,496	9,946	16,380
Pyrophyllite	10,524	4,694	7,837	4,606	5,751	413
TOTAL*	1,340,000	1,470,000	1,580,000	1,660,000	1,670,000	1,800,000

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

(a) Kisii stone.

(b) In addition the following amounts of wonderstone were produced (long tons): 1954—337; 1955—213; 1956—237; 1957—531; 1958—1,121; 1959—350.

(c) Shipments.

(d) Estimated

(e) United States Bureau of Mines' estimate.

EXPORTS OF TALC

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Canada	3,222	3,954	2,333	2,101	1,724	1,833
India	6,361	7,869	7,672	7,021	7,101	7,387
Malaya	244	211	280	203	200	574
Australia (a)	1,942	2,365	2,507	2,604	3,116	2,811
OTHER COUNTRIES						
Austria	44,109	49,010	49,151	50,349	50,772	34,002
Belgium-Luxemburg						
E.U.	62	57	75	20	37	33
France	28,644	36,064	29,054	31,801	29,895	31,618
Germany (Federal)	746	926	1,115	1,017	639	1,160
Italy	30,216	40,939	38,807	39,917	44,300	41,083
Norway	50,182	55,390	51,756	53,294	52,133	52,782
Sweden	1,145	2,739	3,933	1,758	1,764	2,836
Egypt	1,826	2,175	1,501	1,082	1,409	701
United States	20,846	31,455	37,797	35,701	52,363	52,456
Japan	342	555	423	670	716	810
Korea (South)—						
Talc	6,899	10,374	6,094	5,773	11,783	14,198
Pyrophyllite	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	4,888	8,187

(a) Years ended June 30 of that stated.

IMPORTS OF TALC

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Unground	599	1,189	1,618	760	262	229
Ground	33,266	37,661	36,574	37,251	38,000	39,239
Canada	11,064	10,163	14,517	13,225	14,798	16,507
Ceylon	444	523	961	1,091	1,969	1,758
Malaya	1,901	3,066	2,952	3,552	2,792	3,953
Australia (a)	281	—	233	220	263	253
OTHER COUNTRIES						
Austria	461	412	644	674	400	205
Belgium-Luxemburg						
E.U.	7,556	10,770	10,119	11,426	11,080	11,576
Denmark	8,393	9,208	8,259	9,142	8,278	7,880
Finland	2,568	2,749	1,736	1,471	1,821	2,785
France	2,202	2,273	2,076	3,851	5,334	4,018
Germany (Federal)	29,776	36,720	37,973	39,234	35,449	39,223
Italy	693	1,238	2,438	2,248	1,685	1,958
Netherlands	10,906	12,200	12,325	10,671	8,506	10,511
Portugal	627	606	595	844	707	865
Sweden	r 9,349	r 9,350	r 8,081	r 8,296	8,239	10,187
U.S.S.R.	n.a.	43,200	67,100	69,400	70,000	80,200
Yugoslavia	166	165	82	97	195	354
Algeria	1,716	3,172	1,776	1,744	3,112	2,651
Belgian Congo	268	190	293	289	253	348
Egypt	202	427	165	6	—	—
Malagasy Republic	1	3	22	4	8	8
Morocco	930	2,046	846	551	837	809
Tunisia	480	452	243	439	544	438
Costa Rica	29	35	38	48	58	62
Guatemala	21	16	14	46	69	n.a.
Mexico—						
Talc	1,615	2,497	5,698	15,758	28,068	19,328
Pyrophyllite	n.a.	n.a.	620	431	896	542
Salvador	18	20	16	28	46	26
United States	19,784	25,964	20,849	18,210	20,438	22,635
Argentina	—	—	—	—	1	3
Brazil	14	18	—	10	—	10
Chile	47	105	6	27	n.a.	n.a.
Colombia	610	1,101	1,393	1,503	903	1,129
Ecuador	173	188	79	69	309	104
Peru	304	484	300	470	433	465
Venezuela	887	1,018	882	1,053	1,367	n.a.
Japan	10,777	20,204	19,414	22,845	24,461	33,296
Lebanon	112	47	145	202	196	220
Philippine Republic	1,365	982	890	1,484	1,544	1,806
Syria	209	134	267	292	320	268
Thailand	n.a.	892	432	512	708	931
Turkey	224	118	100	122	153	168

(a) Years ended June 30 of that stated.

TANTALUM AND NIOBIUM MINERALS
PRODUCTION OF TANTALUM AND NIOBIUM MINERALS

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Kenya—						
Columbite	—	—	—	—	1	1
Nigeria—						
Tantalite	10	15	14	18	20	12
Columbite	2,914	3,146	2,604	1,923	806	1,588
Sierra Leone—						
Columbite	4	4	—	—	—	—
Southern Rhodesia—						
Tantalum concentrates	6	2	13	34	43	52
Columbite	8	5	2	—	—	—
South West Africa—						
Columbite	1	5	—	—	—	—
Tantalum and niobium concentrates	12	6	6	11	5	2
Swaziland—						
Yttrotantalite	—	—	—	15	—	—
Uganda—						
Tantalite and columbite	10	15	2	2	3	2
Tin-columbite	3	(515lb.)	—	—	—	—
Union of South Africa—						
Tantalite	21	11	1	1	17	5
British Guiana—						
Columbite	2	2	—	—	—	—
India—						
Columbite	(a) 5	n.a.	n.a.	n.a.	n.a.	n.a.
Malaya—						
Columbite	111	236	276	142	159	120
Australia—						
Tantalite and columbite	53	12	71	22	6	8
OTHER COUNTRIES						
Norway—						
Niobium concentrates(b)	175	302	256	190	281	285
Portugal—						
Tantalite and columbite	82	50	27	31	24	18
Belgian Congo—						
Tantalite and columbite concentrates	432	432	330	234	243	233
Tin-tantalite-columbite	2,664	(c) 2,824	(c) 2,717	(c) 1,947	(c) 1,427	(c) 1,238
French Equatorial Africa—						
Tantalite and columbite	3	1	—	—	—	—
Malagasy Republic—						
Columbite	16	17	9	8	11	12
Mozambique—						
Tantalite	—	2	3	} 129	168	143
Columbite	42	35	26			
United States—						
Tantalum and niobium concentrates (d) ..	15	6	97	165	191	84

(a) Including fergusonite.

(b) 50% Nb₂O₅ in 1954; 49% Nb₂O₅ in 1955; 51% Nb₂O₅ in 1956; 50% Nb₂O₅ in 1957; 50% Nb₂O₅ in 1958; 50% Nb₂O₅ in 1959.

(c) Estimated to contain 346, 281, 153, 108 and 85 tons of tantalite-columbite in 1955, 1956, 1957, 1958 and 1959 respectively.

(d) Shipments from mine. As from 1956, principally niobium-tantalum oxide content of euxenite concentrates.

PRODUCTION OF TANTALUM AND NIOBIUM MINERALS (cont.)

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Argentina—						
Tantalite and columbite	<i>n.a.</i>	5	5	—	<i>n.a.</i>	<i>n.a.</i>
Bolivia (a)—						
Columbite	<i>n.a.</i>	1	—	—	—	—
Brazil—						
Tantalite	(a) 48	(a) 57	(a) 93	130	} 335	342
Columbite	193	76	176	130		
French Guiana—						
Tantalite and columbite	14	10	7	1	—	—

Small quantities of tantalite and columbite have been produced in Northern Rhodesia, Somaliland Protectorate and Canada.

(a) Exports.

EXPORTS OF TANTALUM AND NIOBIUM MINERALS, ETC.

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ferro-niobium and ferro-niobium-tantalum ..	—	66	163	82	37	71
Nigeria—						
Tantalite	5	9	15	13	24	16
Columbite	2,524	3,047	2,406	1,145	737	1,882
Rhodesia and Nyasaland—						
Columbite	6	8	2	—	—	—
Tantalum concentrates	5	4	19	31	55	32
Sierra Leone—						
Columbite	5	4	—	—	—	—
South West Africa—						
Tantalite	16	2	3	7	10	—
Uganda—						
Tantalite and columbite	14	14	4	2	4	1
Union of South Africa—						
Tantalite	7	8	—	1	7	—
British Guiana—						
Columbite	—	3	—	—	—	—
Malaya (b)—						
Columbite	113	187	184	102	311	47
Australia (a)—						
Tantalite and columbite	69	47	41	30	5	9
OTHER COUNTRIES						
Portugal—						
Tantalite and columbite	83	79	31	49	49	33
Belgian Congo—						
Tantalite and columbite	565	651	606	348	476	355
Tantaliferous slag ..	2,811	1,427	733	583	1,126	151
French Equatorial Africa—						
Tantalite and columbite	1	3	—	—	—	—
Malagasy Republic—						
Columbite	6	22	12	6	6	7
Mozambique—						
Columbite	42	32	18	70	199	135
United States—						
Tantalum concentrates	—	—	1	—	3	5
Niobium concentrates	(192lb.)	3	5	26	24	7
Tantalum metal, etc. ..	n.a.	(3,390lb.)	(1,721lb.)	(4,877lb.)	(13,476lb.)	(6,141lb.)
Niobium metal, etc. ..	(86lb.)	—	—	(21lb.)	(87lb.)	(354lb.)
Tantalum powder ..	(110lb.)	(594lb.)	(6,080lb.)	(5,977lb.)	(5,773lb.)	(1,988lb.)
Bolivia—						
Columbite	n.a.	1	—	—	—	—
Brazil—						
Tantalite	48	57	93	91	95	93
Columbite	119	106	79	30	71	15
French Guiana—						
Tantalite and columbite	13	9	6	1	—	—

Niobium concentrates were exported from Norway but figures are not separately recorded.

(a) Years ended June 30 of that stated.

(b) In addition tin-smelters' slag containing 5% combined oxides of tantalum and niobium was exported as follows: 1954—1,800; 1955—Nil; 1956—n.a.; 1957—n.a.; 1958—n.a.; 1959—n.a.

IMPORTS OF TANTALUM AND NIOBIUM MINERALS, ETC.

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Tantalite and columbite	272	268	744	438	386	369
Tantalum powder, sheet, etc.	(494lb.)	(1,632lb.)	(4,353lb.)	(5,365lb.)	(3,680lb.)	(1,119lb.)
OTHER COUNTRIES						
France—						
Tantalite and columbite	<i>n.a.</i>	<i>n.a.</i>	64	24	43	127
Germany (Federal)—						
Tantalite	98	2	1	33	} 160	499
Columbite	91	142	261	159		
United States—						
Tantalite	437	852	586	370	462	291
Columbite	3,038	4,291	2,544	1,495	1,141	1,516
Tantalum metal	—	(620lb.)	(5,514lb.)	(2,430lb.)	(239lb.)	(405lb.)
Niobium metal (a)	—	(325lb.)	(15,144lb.)	(4,061lb.)	(5,458lb.)	(1,106lb.)
Japan—						
Columbite	<i>n.a.</i>	<i>n.a.</i>	3	77	6	3

(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	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Great Britain	920	1,037	1,066	1,080	1,117	1,159
Nigeria	7,926	8,159	9,067	9,534	6,154	5,491
Northern Rhodesia	1	—	—	—	—	1
Southern Rhodesia	14	209	354	283	532	600
South West Africa	(a) 367	407	475	636	155	5
Swaziland	35	27	29	25	15	5
Tanganyika	37	40	15	14	19	67
Uganda	83	59	25	41	37	36
Union of South Africa	1,315	1,283	r 1,443	1,463	1,416	1,272
Canada (b)	146	220	337	317	355	400
Malaya	60,690	61,244	62,296	59,293	38,458	37,521
Australia	2,075	2,017	2,078	1,952	2,237	2,444
TOTAL	73,609	74,702	r 77,185	74,638	50,495	49,000
OTHER COUNTRIES						
France	525	450	400	429	—	—
Germany (Eastern)	669	669	660	670	(e) 720	(e) 720
Portugal	1,283	1,445	1,276	1,127	1,249	1,129
Spain	1,020	728	r 445	r 498	467	452
Belgian Congo	15,084	15,303	14,764	14,281	11,214	10,320
Cameroon (French)	82	85	85	74	75	62
Egypt	5	—	—	—	—	—
French Equatorial Africa	—	—	—	—	(e) 13	(e) 13
French West Africa	71	47	56	50	62	57
Morocco	5	14	5	8	6	10
Mexico	349	605	501	474	544	377
United States	205	99	—	—	—	50
Argentina	95	89	85	182	205	225
Bolivia (c)	27,284	27,921	26,842	27,796	17,731	23,811
Brazil	167	146	175	293	409	(e) 180
Peru	—	—	3	12	30	—
Burma	800	1,114	785	694	(e) 1,200	(e) 1,400
China (d) (e)	7,500	12,000	14,000	16,000	18,000	21,000
Indonesia	35,860	33,366	30,054	27,721	23,200	21,613
Japan	716	896	926	949	1,108	998
Laos	110	253	240	274	301	294
Thailand	9,776	11,022	12,481	13,528	7,726	9,692
TOTAL*	101,600	106,000	104,000	105,000	84,000	92,000
WORLD'S TOTAL*	175,200	181,000	181,000	180,000	134,000	141,000

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

(a) Estimated.

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

(c) Content of ore plus metal exported.

(d) Smelter.

(e) Estimated by International Tin Council.

SMELTER PRODUCTION OF TIN

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom ..	27,475	27,241	26,434	34,174	32,551	27,229
Southern Rhodesia ..	19	22	17	253	503	572
Union of South Africa ..	752	779	756	825	901	726
Malaya	71,163	70,632	73,263	71,289	45,336	45,729
Australia	2,063	2,004	1,850	1,806	2,121	2,226
TOTAL	101,472	100,678	102,320	108,347	81,412	76,482
OTHER COUNTRIES						
Belgium	11,377	10,432	10,288	9,011	9,304	6,608
Germany—						
Federal Republic ..	—	281	683	955	646	1,010
Eastern	600	605	600	600	(b) 600	(b) 600
Netherlands	28,442	26,566	28,197	29,259	17,098	9,592
Portugal	664	1,018	1,127	1,072	1,260	1,174
Spain	652	748	453	441	438	323
Belgian Congo	2,459	3,034	2,772	3,105	2,642	3,291
Morocco	8	8	(b) 12	(b) 12	(b) 12	(b) 12
Mexico	(b) 300	(b) 240	240	207	460	(b) 240
United States	27,407	22,329	17,631	1,564	(b) 5,250	(b) 10,700
Argentina	60	99	61	39	(b) 120	(b) 120
Bolivia (a)	196	107	404	204	682	990
Brazil	1,850	1,184	1,544	1,401	629	(b) 1,800
China (b)	7,500	12,000	14,000	16,000	18,000	21,000
Indonesia	1,351	1,958	300	322	(b) 600	(b) 600
Japan	828	981	1,104	1,213	1,260	1,271
TOTAL*	83,700	82,000	79,000	65,000	59,000	59,000
WORLD'S TOTAL* ..	185,200	183,000	181,000	173,000	140,000	135,000

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

In addition secondary tin recovered in the United States (as metal, in alloys, and in chemical compounds) was as follows:

	Long tons		Long tons
1954	26,190	1957	24,262
1955	28,342	1958	22,810
1956	29,440	1959	23,410

(a) Exports.

(b) Estimated by International Tin Council.

EXPORTS OF TIN

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Blocks, ingots, bars and slabs	8,118	8,456	7,267	7,332	9,240	29,245
Soft solder	1,971	2,402	2,016	2,053	2,203	1,590
Tin-foil	71	88	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Nigeria—						
Ore	10,309	11,399	13,364	13,577	7,626	7,536
Rhodesia and Nyasaland—						
Ore and concentrates ..	2	33	177	112	191	108
Blocks, ingots and bars ..	—	10	120	155	383	324
South West Africa—						
Ore	406	332	524	664	271	—
Tanganyika—						
Ore and concentrates ..	44	53	26	18	28	88
Uganda—						
Ore	126	94	45	51	59	55
Union of South Africa—						
Concentrates	1,259	1,410	1,990	1,225	1,239	1,273
Middlings	551	964	—	—	—	—
Canada—						
Concentrates (<i>Sn content</i>)	<i>r</i> 146	<i>r</i> 220	<i>r</i> 337	<i>r</i> 317	355	400
Hong Kong—						
Ingots	15	16	15	47	697	110
India—						
Crude and scrap	607	5	479	40	40	60
Malaya—						
Ore	160	48	—	—	—	—
Ingots, blocks, bars, slabs	70,280	71,161	73,279	70,604	45,814	44,671
Australia (<i>b</i>)—						
Ore and concentrates	26	36	123	60	133	50
(<i>Sn content</i>)	49	296	50	50	63	21
Ingots, etc.						
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Crude	11,352	10,867	9,811	9,459	8,916	6,212
Scrap	20	37	146	92	102	140
Bars, sheets and wire ..	1	—	—	—	—	1
Denmark—						
Crude	11	21	28	17	18	151
do. (alloys)	4,592	5,849	6,012	6,204	4,721	8,582
Scrap	—	45	70	2	—	—
France—						
Ore	465	749	638	707	41	32
Crude	117	67	14	22	26	24
do. (alloys)	356	339	291	150	112	91
Scrap	9	—	—	—	—	—
Bars, sheets and wire (<i>a</i>)	45	36	128	236	287	277
Germany (Federal)—						
Crude and scrap (<i>a</i>)	2,292	2,040	2,015	1,643	3,844	10,294
Sheets and wire	2	2	1	4	(<i>a</i>) 92	(<i>a</i>) 34
Tin-foil	11	4	7	15	21	14

(a) Including alloys.

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

EXPORTS OF TIN (cont.)

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Italy—						
Ingots (a)	18	19	8	49	16	82
Netherlands—						
Crude	28,441	26,002	25,650	29,425	24,779	19,721
Bars and wire	5	6	9	5	3	3
Norway—						
Bars, sheets and wire (a)	196	169	244	281	223	<i>n.a.</i>
Portugal—						
Ore	735	317	116	156	44	78
Bars	161	19	64	20	86	79
Spain—						
Ingots and bars	—	394	197	—	—	251
Sweden—						
Crude and scrap	87	36	76	16	179	109
Switzerland—						
Pigs, bars, slabs, sheets, etc.	14	23	22	7	57	37
Tin-foil	3	2	2	3	2	1
Scrap	167	151	227	207	213	180
U.S.S.R.—						
Crude	<i>n.a.</i>	2,100	3,200	18,000	21,900	17,800
Algeria—						
Ingots, scrap and alloys	20	24	20	14	8	7
Belgian Congo—						
Ore	14,995	17,026	15,650	16,186	9,829	9,638
Ingots	2,340	2,582	2,675	2,791	2,539	2,820
Cameroon (French)—						
Ore	118	177	221	59	118	118
French West Africa—						
Ore	90	70	77	71	84	86
Mexico—						
Ores and concentrates	20	25	4	—	—	—
United States—						
Ingots, pigs, etc.	271	254	439	1,112	917	943
Scrap (a)	8,119	6,048	4,092	9,393	2,119	7,619
Tubes, sheets, etc.	30	62	217	85	172	94
Bolivia—						
Ores, concentrates, etc. (<i>Sn content</i>)	27,283	27,814	26,421	27,555	17,023	22,857
Metal	196	107	404	204	682	917
Peru—						
Concentrates (<i>Sn content</i>)	—	2	2	12	12	46
Bars, impure (<i>Sn content</i>)	2	—	—	—	3	11
Burma—						
Ore and concentrates (<i>Sn content</i>)	856	739	895	987	1,328	1,377
China—						
Ingots and slabs (b)	5,100	16,700	15,500	22,000	22,000	22,000
Indonesia—						
Ore	46,996	44,198	43,239	37,572	25,207	24,856
<i>Sn content</i>	33,941	31,768	31,159	r 27,536	18,184	18,426
Metal	994	196	717	84	215	285
Laos—						
Ore (<i>Sn content</i>)	7	35	180	349	455	386
Thailand—						
Ore (<i>Sn content</i>)	9,518	11,039	12,424	13,345	6,545	10,085

(a) Including alloys.

(b) Estimated.

IMPORTS OF TIN

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore and concentrates ..	58,209	61,159	56,911	81,896	64,895	61,494
Blocks, ingots, bars, slabs and soft solder ..	1,949	755	1,116	9,567	12,070	(a) 2,775
Ghana—						
Unwrought and bars, rods, sheets, etc. ..	47	32	10	14	30	68
Kenya (d)—						
Unwrought, scrap and solder	91	170	120	83	94	112
Mauritius—						
Bars, sheets, wire, etc. ..	12	9	8	15	5	n.a.
Nigeria—						
Unwrought and bars, rods, sheets, etc. ..	90	448	436	53	29	35
Rhodesia and Nyasaland—						
Blocks, ingots and bars ..	33	11	13	22	8	1
Tanganyika (d)—						
Unwrought, scrap and solder	64	85	93	65	69	71
Uganda (d)—						
Unwrought, scrap and solder	15	28	20	22	42	28
Union of South Africa—						
Blocks, ingots, bars and rods	315	480	917	r 1,066	1,037	621
Tin-foil	5	4	1	1	2	1
Canada—						
Blocks, pigs and bars ..	3,836	4,318	3,774	4,155	3,461	4,184
Tin-foil	13	16	7	7	9	8
Jamaica—						
Unwrought, including alloys	140	52	45	24	42	33
Aden—						
Bars, sheets, wire, etc. ..	—	r 686	r 265	r 476	408	1,324
Ceylon—						
Ingots, slabs, etc. ..	34	9	4	11	9	11
Tin solder	37	44	153	38	37	57
Cyprus—						
Ingots and bars ..	8	10	10	14	8	18
Hong Kong—						
Slabs and ingots ..	124	134	142	168	1,170	125
India—						
Blocks, ingots, bars and slabs	3,775	3,640	4,181	4,717	4,659	4,295
Malaya—						
Ore	13,312	15,011	14,968	19,394	11,213	11,853
Bars, sheets, wire, etc. ..	356	24	10	9	7	74
Pakistan—						
Blocks, ingots, bars and slabs	(c) 64	(c) 113	408	802	142	130
Australia (b)—						
Ingots	844	579	517	830	1,110	1,120
Leaf and foil	19	17	16	10	13	15
New Zealand—						
Ingots, etc.	448	r 395	r 392	r 354	383	364

(a) Excess of re-exports.

(b) Years ended June 30 of that stated.

(c) Years ended March 31 following that stated.

(d) Including alloys.

IMPORTS OF TIN (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
Irish Republic— Ingots, bars, slabs, etc. (a)	77	81	60	62	64	69
OTHER COUNTRIES						
Austria— Crude and alloys ..	532	523	526	543	514	651
Belgium-Luxemburg E.U.— Ore	14,772	13,700	13,869	14,087	10,222	8,740
Crude	1,920	2,147	2,538	2,493	2,451	2,026
Scrap	—	18	2	19	8	3
Bars, sheets and wire ..	—	1	—	—	—	—
Denmark— Crude	3,968	5,031	4,831	4,042	3,269	7,198
do. (alloys)	267	830	403	308	1,122	521
Scrap	1,161	1,571	1,891	1,582	531	1,105
Sheets, wire, etc. .. .	53	49	53	60	79	18
Tin-foil	37	39	38	49	75	93
Finland— Ingots and bars ..	511	498	493	438	266	606
France— Crude	8,654	9,455	10,364	11,217	12,794	10,927
do. (alloys)	65	30	120	59	26	93
Scrap	74	52	98	97	44	42
Sheets, bars, wire .. .	2	22	2	3	1	2
Germany (Federal)— Ore	—	2,022	3,454	9,219	5,514	4,944
Crude and scrap (a) ..	7,567	8,596	8,786	10,231	11,735	20,546
Greece— Crude	192	198	187	227	230	198
Hungary— Crude	859	850	878	1,136	762	1,218
Iceland— Bars, sheets, wire, etc. .	31	34	92	34	39	55
Italy— Ingots	2,561	2,988	3,596	3,441	3,400	3,981
do. (alloys)	94	143	102	120	216	195
Scrap	3	5	—	5	5	16
Netherlands— Ore	38,658	33,197	40,236	40,773	20,214	13,291
Crude	3,439	817	1,654	4,588	9,155	9,261
Norway— Crude	309	349	383	351	333	337
Bars, sheets, filings, etc.	98	91	144	107	117	153
Portugal— Sheets, wire, etc. ..	1	1	1	1	1	—
Spain— Ingots and bars ..	99	61	45	237	41	295
Sweden— Crude	900	929	947	799	1,280	965
Switzerland— Pigs, bars and slabs ..	712	698	884	1,011	919	643
Sheets, wire, foil, etc. .	5	5	5	5	4	3
U.S.S.R.— Crude	n.a.	16,600	15,500	21,700	19,100	20,500
Yugoslavia— Ingots	385	550	942	1,585	777	1,010
Algeria— Crude, sheets, etc. (a)	205	176	155	219	260	179
Egypt— Crude and scrap ..	229	258	257	543	1,062	646
Malagasy Republic— Crude and bars (a) ..	23	16	21	21	23	21

(a) Including alloys.

IMPORTS OF TIN (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Morocco—						
Ingots, etc.	305	198	211	216	221	163
Mozambique—						
Bars, sheets, etc.	4	3	21	22	15	20
Sudan—						
Unwrought incl. scrap	18	14	16	20	12	23
Tunisia—						
Pigs, bars and sheets	41	41	63	45	63	82
Cuba—						
Ingots	44	44	51	69	71	<i>n.a.</i>
Bars, sheets, etc.	26	35	30	46	53	<i>n.a.</i>
Mexico—						
Ingots	410	465	462	518	753	816
United States—						
Ore (<i>Sn content</i>)	22,140	20,122	16,688	94	5,440	10,773
Blocks, pigs, bars, etc.	60,599	64,815	62,590	56,158	41,149	43,493
Scrap	27	20	—	249	2	1
Argentina—						
Ingots and bars	2,532	2,263	74	2,662	1,490	1,465
Brazil—						
Ore	84	2,046	1,674	2,354	327	1,705
Ingots and bars	337	68	419	766	24	283
Colombia—						
Ingots, etc.	34	46	71	72	55	101
Chile—						
Ore and concentrates	103	116	115	63	<i>n.a.</i>	<i>n.a.</i>
Ingots	406	400	<i>r</i> 429	522	183	197
Peru—						
Ingots, bars and scrap	51	70	94	61	39	65
Uruguay—						
Ingots, etc.	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	157	35	114
Venezuela—						
Crude	172	<i>r</i> 83	135	173	239	<i>n.a.</i>
Burma—						
Crude	76	46	81	124	63	105
Formosa—						
Ingots and slabs	262	103	181	130	123	207
Iran (<i>a</i>)—						
Ingots, etc.	118	<i>n.a.</i>	82	154	286	<i>n.a.</i>
Iraq—						
Ingots	83	58	11	24	21	<i>n.a.</i>
Israel—						
Ingots, blocks and slabs	155	111	91	101	104	93
Japan—						
Ore and concentrates	<i>n.a.</i>	64	316	325	200	79
Ingots and slabs	5,046	5,683	7,298	7,102	7,370	9,706
Lebanon—						
Crude	7	15	7	11	2	4
Philippine Republic—						
Ingots, etc.	111	140	128	101	136	262
Syria—						
Crude and scrap	24	161	86	54	57	30
Turkey—						
Ingots, bars and sheets	514	665	645	471	567	807

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

TITANIUM MINERALS
PRODUCTION OF TITANIUM MINERALS

Long tons

Producing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Gambia (a)—						
Ilmenite.. .. .	1,086	—	—	13,917	28,896	13,202
Rutile	—	—	—	—	467	898
Union of South Africa—						
Ilmenite.. .. .	—	1,712	1,656	2,786	(e) 26,811	77,887
Rutile	—	—	—	—	493	3,019
Canada (shipments) (b)—						
Ilmenite.. .. .	277,246	397,888	562,424	736,100	407,246	n.a.
India—						
Ilmenite.. .. .	240,513	250,774	335,590	296,221	309,161	298,000
Rutile	104	149	541	473	449	383
Malaya (a)—						
Ilmenite	44,745	53,875	122,176	91,734	74,827	72,851
Australia—						
Ilmenite concentrates ..	(c) 8,930	(c) n.a.	4,274	71,115	69,948	85,369
Rutile concentrates ..	44,659	59,613	96,816	128,903	83,328	81,740
OTHER COUNTRIES						
Finland—						
Ilmenite concentrates ..	49,790	83,632	101,290	104,079	104,807	84,791
Norway—						
Ilmenite.. .. .	146,829	155,340	187,494	206,869	208,617	223,398
Rutile (d)	—	9	24	20	—	—
Portugal—						
Ilmenite.. .. .	503	774	606	346	452	1,887
Tin-titanium ore	8	48	21	—	—	—
Spain—						
Ilmenite.. .. .	1,247	6,596	5,324	8,747	16,215	7,244
Cameroon (French)—						
Rutile	—	99	150	39	—	—
Egypt—						
Ilmenite.. .. .	221	2,406	4,060	(f) 3,300	(f) 2,700	(f) 2,700
French West Africa—						
Ilmenite.. .. .	11,200	22,883	19,800	36,268	33,000	29,408
Rutile	—	—	580	205	1,033	—
Malagasy Republic—						
Ilmenite.. .. .	n.a.	n.a.	n.a.	n.a.	n.a.	588
Rutile	—	—	2	—	—	—
Mozambique—						
Ilmenite.. .. .	—	—	—	—	n.a.	10,251
Mexico—						
Ilmenite.. .. .	—	11	—	—	149	—

(a) Exports.

(b) Production of titanium dioxide slag (approx. 70% TiO₂) at Sorel was as follows (long tons): 1954—109,786; 1955—145,343; 1956—195,156; 1957—231,179; 1958—144,029; 1959—197,394.

(c) Owing to high chromium and low titanium oxide content sales were as follows (long tons): 1954—469; 1955—535.

(d) Ore and concentrates.

(e) Including 269 long tons of mixed concentrates.

(f) United States Bureau of Mines' estimate.

PRODUCTION OF TITANIUM MINERALS (cont.)

Long tons

Producing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
United States (a)						
Ilmenite... ..	489,028	520,575	611,568	676,054	502,980	566,862
Rutile	6,617	7,601	10,712	9,555	6,612	8,452
Brazil—						
Ilmenite... ..	—	—	—	—	5,081	(c) 5,000
Rutile	130	156	302	241	240	207
Japan (b)—						
Ilmenite... ..	4,415	9,246	16,902	13,402	5,247	5,062
Thailand—						
Ilmenite... ..	—	—	344	1,821	823	<i>n.a.</i>
WORLD'S TOTAL—						
Ilmenite	1,275,800	1,508,000	1,974,000	2,263,000	1,800,000	2,000,000
Rutile	51,400	67,500	109,100	139,400	92,600	94,700

(a) Production of metal (commercial titanium sponge) was as follows (long tons): 1954—4,795; 1955—6,605; 1956—13,031; 1957—15,401; 1958—4,094; 1959—3,480.

(b) Production of metal (commercial titanium sponge) was as follows (long tons): 1954—601; 1955—1,230; 1956—2,472; 1957—3,029; 1958—1,630; 1959—2,438

(c) United States Bureau of Mines' estimate.

EXPORTS OF TITANIUM MINERALS, ETC.

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ferro-titanium	304	308	662	393	348	502
Gambia—						
Ilmenite	1,086	—	—	13,917	28,896	13,202
Rutile	—	—	—	—	467	898
Union of South Africa—						
Ilmenite	—	1,687	879	2,645	15,741	57,490
Canada—						
Ilmenite	1,073	1,307	2,050	9,616	—	<i>n.a.</i>
Titanium dioxide slag (70% TiO ₂)	106,511	154,381	180,246	199,179	100,371	<i>n.a.</i>
Hong Kong—						
Titanium oxide	456	61	108	88	142	155
India—						
Ilmenite	185,153	246,196	283,201	347,212	283,667	276,631
Rutile sand	104	<i>n.a.</i>	<i>n.a.</i>	300	—	—
Malaya—						
Ilmenite	44,745	53,874	122,176	91,733	74,826	72,851
Australia—						
Rutile	44,417	59,687	89,887	119,052	75,615	80,938
Ilmenite	171	434	1,130	37,811	56,243	68,649
OTHER COUNTRIES						
Belgium-Luxemburg						
E. U.—						
Titanium white	196	125	675	458	655	4,337
Finland—						
Ilmenite	25,481	57,802	106,468	101,471	95,409	63,539
France—						
Titanium oxide, etc. ..	345	447	210	171	156	2,604
Germany (Federal)—						
Titanium oxide	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	34,493	38,722
Italy—						
Titanium oxide	1,633	1,882	4,432	5,374	5,268	6,634
Norway—						
Ilmenite	(a) 146,753	(a) 163,943	(a) 182,607	(a) 202,184	(a) 224,538	} 214,311
Rutile	19	9	19	9	2	
Portugal—						
Ilmenite	541	1,838	615	364	101	100
Sweden—						
Titanium minerals	196	282	612	185	15	15
Titanium white	5	140	759	283	24	28
Yugoslavia—						
Titanium oxide	<i>n.a.</i>	98	134	24	—	—
Cameroon (French)—						
Rutile	204	45	208	14	33	5
French West Africa—						
Ilmenite	11,556	19,290	19,573	36,040	28,610	20,849
Rutile	—	—	561	76	905	—
United States—						
Ores and concentrates ..	592	1,021	1,641	1,803	1,112	4,157
Titanium metal (b)	196	40	512	759	387	889
Ferro-titanium	153	219	325	327	288	286
Titanium oxide and pigments	56,966	48,530	57,862	47,285	33,050	32,395
Brazil—						
Titanium minerals	—	—	5	—	—	—
Japan—						
Titanium sponge metal ..	422	1,097	2,485	2,441	1,947	1,757
Titanium oxide	3,367	7,747	9,433	14,320	13,647	13,916
Thailand—						
Ilmenite	—	—	—	1,131	492	394

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

(b) Including alloys and scrap.

IMPORTS OF TITANIUM MINERALS, ETC.

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ilmenite	145,736	192,146	204,237	255,412	256,899	243,886
Rutile	7,596	12,539	10,502	11,840	12,281	7,276
Titanium sponge	—	132	—	—	—	—
Other titanium metal	—	34	9	9	7	1
Titanium oxide	5,863	4,374	3,455	6,569	154	1,747
Canada—						
Titanium oxide, etc.	28,666	31,963	33,815	30,567	26,285	27,319
Hong Kong—						
Titanium oxide	1,231	1,009	2,019	1,156	2,013	1,861
India—						
Rutile	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	155	193	100
Titanium oxide	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	543	797	1,456
Australia (a)—						
Ilmenite	7,054	16,146	10,346	3,694	—	—
Titanium white and oxide	6,844	6,811	6,628	7,383	7,482	5,847
New Zealand—						
Titanium white	2,414	<i>r</i> 2,612	<i>r</i> 2,470	<i>r</i> 2,620	4,608	2,326
OTHER COUNTRIES						
Austria—						
Titanium white	1,199	1,372	1,527	1,909	2,086	2,649
Belgium-Luxemburg						
E.U.—						
Ferro-titanium	44	45	48	53	35	113
Titanium white	3,919	4,393	6,184	5,596	6,367	7,333
Denmark—						
Titanium white	2,014	2,514	605	387	430	3,411
Finland—						
Titanium white	3,436	4,108	4,092	2,433	3,515	4,277
France—						
Titanium minerals	<i>n.a.</i>	<i>n.a.</i>	23,524	42,241	46,294	63,914
Titanium oxide, etc.	3,089	3,468	6,046	7,018	4,873	5,003
Germany (Federal)—						
Ilmenite	89,698	114,584	143,134	158,167	197,000	205,796
Rutile	5,833	9,595	10,173	19,635	8,707	13,930
Titanium oxide	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,765	2,311
Hungary—						
Ferro-titanium	3	58	71	52	48	<i>n.a.</i>
Iceland—						
Titanium white	250	121	212	161	195	169
Italy—						
Titanium minerals	19,670	22,920	32,807	58,951	41,214	36,188
Ferro-titanium	36	101	209	146	272	232
Titanium oxide	1,151	1,215	2,421	2,556	3,881	4,035
Netherlands—						
Ferro-titanium	14	18	22	39	32	32
Titanium white	6,629	8,540	9,384	12,573	11,589	16,384
Portugal—						
Ilmenite	1	30	—	—	—	—
Rutile	97	107	74	239	199	75
Titanium oxide	226	337	405	595	703	857
Sweden—						
Titanium minerals	1,745	3,370	5,121	4,487	4,475	2,981
Titanium white	5,549	5,867	6,822	6,916	7,231	9,383
Yugoslavia—						
Rutile	30	110	101	293	256	1,059
Titanium oxide	188	209	373	<i>n.a.</i>	—	161
Algeria—						
Titanium minerals	<i>n.a.</i>	<i>n.a.</i>	194	350	458	229
Titanium oxide	<i>n.a.</i>	<i>n.a.</i>	127	140	282	267

(a) Years ended June 30 of that stated.

IMPORTS OF TITANIUM MINERALS, ETC. (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES (cont.)						
Belgian Congo—						
Titanium oxide.. ..	48	20	428	337	442	430
Morocco—						
Titanium oxide	<i>n.a.</i>	<i>n.a.</i>	61	63	123	149
Tunisia—						
Titanium oxide.. ..	12	18	29	170	63	32
Mexico—						
Titanium oxide	2,216	2,323	4,317	3,296	3,587	4,234
United States—						
Ilmenite (a)	245,540	315,492	320,786	411,029	310,843	331,863
Rutile	13,361	17,434	43,666	75,747	32,646	20,740
Titanium metal	172	506	1,828	3,154	1,851	1,396
Ferro-titanium	4	28	101	114	90	113
Titanium compounds ..	5	151	619	60	633	2,555
Argentina—						
Titanium oxide.. ..	1,151	1,656	3,329	2,543	3,497	2,495
Brazil—						
Titanium oxide.. ..	2,842	1,732	2,527	2,434	2,504	2,727
Chile—						
Titanium white	510	555	626	507	789	927
Colombia—						
Titanium white	652	972	1,296	1,560	848	1,183
Peru—						
Titanium oxide.. ..	306	351	412	28	276	—
Venezuela—						
Titanium oxide.. ..	1,286	1,317	1,383	1,541	1,843	<i>n.a.</i>
Japan—						
Ilmenite.. ..	28,640	49,534	64,840	95,549	58,950	81,144
Titanium oxide.. ..	638	465	878	333	61	108
Turkey—						
Titanium oxide	<i>n.a.</i>	<i>n.a.</i>	55	114	271	456

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

TUNGSTEN

PRODUCTION OF TUNGSTEN ORES AND CONCENTRATES

Long tons

Producing Country and Description	1954	1955	1956	1957	1958	1959	Estimated WO ₃ Content					
							1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES												
Great Britain—												
Concentrates	80	62	52	49	2	—	54	43	36	30	1	—
Nigeria—												
Concentrates	1	1	5	—	—	—	1	1	3	—	—	—
South West Africa—												
Wolfram	89	109	132	35	13	—	53	71	86	25	8	—
Scheelite	4	1	2	4	—	—	3	1	1	3	—	—
Tin-wolfram concentrates	358	401	579	722	101	4	101	80	121	137	12	1
Southern Rhodesia—												
Concentrates	231	202	236	148	85	30	166	145	170	107	61	22
Tanganyika—												
Wolfram	9	22	18	3	—	—	5	14	11	2	—	—
Uganda—												
Wolfram	149	144	170	190	47	51	100	101	109	124	31	34
Union of South Africa—												
Concentrates	542	577	271	r 244	55	30	362	381	r 176	165	36	21
Tin-scheelite concentrates	—	—	—	n.a.	n.a.	n.a.	—	—	—	10	12	2
Canada (a)—												
Concentrates	1,445	1,453	1,519	1,337	456	—	969	867	1,014	858	308	—
Hong Kong—												
Wolfram	27	23	24	36	38	39	17	15	16	23	25	25
India—												
Concentrates	1	—	2	1	—	1	1	—	1	1	—	1
Malaya—												
Wolfram	54	56	47	30	33	14	37	39	32	20	22	10
Scheelite	45	50	44	19	12	6	33	38	33	14	9	5
Australia—												
Wolfram	722	788	877	657	517	897	511	522	592	459	372	653
Scheelite	1,331	1,449	1,495	1,449	733	—	861	960	990	950	478	—
New Zealand—												
Scheelite	28	30	28	31	3	9	18	20	18	20	2	6
TOTAL							3,292	3,298	r 3,409	r 2,948	1,377	780

(a) Shipments (chiefly scheelite).

PRODUCTION OF TUNGSTEN ORES AND CONCENTRATES (cont.)

Long tons

Producing Country and Description	Estimated WO ₃ Content						1959	1958	1957	1956	1955	1954
	1954	1955	1956	1957	1958	1959						
OTHER COUNTRIES												
Austria—	—	—	—	—	—	—	—	—	—	—	—	—
Ore	—	—	—	—	—	—	—	—	—	—	—	—
Finland—	108	113	58	—	6,105	5,728	5,796	115	—	—	—	114
Concentrates	—	—	—	—	—	n.a.	n.a.	87	39	78	74	22
France—	902	1,142	1,091	895	895	949	803	617	573	814	604	517
Concentrates	—	—	—	—	—	—	—	—	—	—	—	—
Italy—	32	26	24	17	17	9	5	5	14	16	19	3
Concentrates	—	—	—	—	—	—	—	—	—	—	—	—
Portugal—	190	369	242	252	252	83	52	163	158	240	123	34
Schellite	3,670	3,513	4,245	3,668	3,668	1,654	1,990	2,385	2,759	2,283	2,380	1,293
Wolfram	—	—	—	—	—	—	—	—	—	—	—	—
Tin-tungsten ores	866	884	135	—	—	—	—	—	33	220	217	—
Spain—	2,394	1,425	1,117	1,196	1,196	1,142	173	707	704	898	1,556	102
Concentrates	870	541	331	—	—	—	721	—	215	352	407	355
Tin-tungsten concentrates	—	—	—	—	—	—	—	—	—	—	—	—
Sweden—	487	462	454	476	476	522	n.a.	354	270	274	270	180
Concentrates	—	—	—	—	—	—	—	—	—	—	—	—
Belgian Congo—	1,016	1,084	1,261	1,165	1,165	890	683	579	816	705	659	575
Concentrates	1,119	1,072	1,017	841	841	775	657	135	—	222	218	—
Tin-tungsten ore	—	—	—	—	—	—	—	—	—	—	—	—
Egypt—	4	2	—	—	—	—	—	—	—	1	3	—
Concentrates	—	—	—	—	—	—	—	—	—	—	—	—
French West Africa—	2	1	—	—	—	—	—	—	—	1	1	—
Concentrates	5	3	—	—	—	—	—	—	—	2	3	—
Tin-tungsten concentrates	—	—	—	—	—	—	—	—	—	—	—	—
Morocco—	16	—	4	—	—	—	—	—	n.a.	—	n.a.	74
Ore	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	4	337	336	322	—
Mexico	—	—	—	—	—	—	—	—	—	—	—	—
United States—	12,351	14,854	13,848	7,535	7,535	(a) 3,382	(a) 3,258	2,029	8,309	8,912	7,411	1,955
Concentrates	—	—	—	—	—	—	—	—	—	—	—	—
Argentina—	900	900	1,003	1,119	1,119	n.a.	n.a.	604	693	590	590	n.a.
Concentrates	—	—	—	—	—	—	—	—	—	—	—	—

(a) Shipments from mine.

PRODUCTION OF TUNGSTEN ORES AND CONCENTRATES (cont.)

Long tons

Producing Country and Description	Estimated WO ₃ Content					
	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Bolivia (a)--- Concentrates ..	n.a.	n.a.	n.a.	n.a.	n.a.	2,254
Brazil--- Scheelite ..	1,298	956	1,284	1,007	2,093	1,155
Peru--- Concentrates ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Burma--- Tungsten concentrates ..	443	578	501	382	201	230
Tin-wolfram concentrates	1,070	1,835	1,956	1,986	1,172	743
China--- Concentrates (b)...	20,000	20,000	20,000	r 15,000	15,000	20,000
Japan--- Concentrates ..	1,111	783	996	886	672	906
Korea--- South--- Concentrates ..	3,768	3,096	3,683	3,765	2,964	2,878
North--- Concentrates (b)	r 1,700	r 1,700	r 1,700	r 2,500	3,000	3,300
Thailand--- Concentrates ..	1,087	1,127	1,162	893	598	457
Turkey--- Ore (c) ..	246	1,547	n.a.	n.a.	n.a.	n.a.
TOTAL*						
WORLD'S TOTAL*						
	r 35,000	r 37,000	r 36,000	r 30,000	24,000	25,000
	r 38,000	r 40,000	r 39,000	r 33,000	25,000	25,000

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

(a) Exports.

(b) Estimated.

(c) Run-of-mine.

EXPORTS OF TUNGSTEN, ETC.

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Tungsten ore	14	8	38	5	5	81
Ferro-tungsten	398	587	1,161	561	993	1,282
Tungsten metal, etc. .. .	42	114	86	54	44	50
Nigeria—						
Tungsten ore	7	3	5	1	—	1
Rhodesia and Nyasaland—						
Tungsten ores	243	237	196	r 158	62	62
South West Africa—						
Tungsten ore	177	71	114	48	—	—
Tin-tungsten ore	—	400	586	670	126	13
Tanganyika—						
Wolfram ore	12	23	15	—	—	—
Uganda—						
Wolfram ore	152	150	163	190	27	12
Union of South Africa—						
Tungsten ore	543	460	612	162	—	30
Canada—						
Tungsten ore	n.a.	1,651	1,480	1,383	459	—
Hong Kong—						
Tungsten ore	26	18	11	4	15	74
Malaya—						
Wolfram	52	62	59	39	37	53
Scheelite	53	51	35	4	5	29
Australia (a)—						
Wolfram ores and concentrates	1,044	795	1,226	801	387	596
(WO ₃ content)	663	533	787	547	277	431
Scheelite ores and concentrates	1,133	1,294	1,151	1,267	1,149	167
(WO ₃ content)	705	764	779	835	757	119
New Zealand—						
Scheelite	41	20	40	15	11	14
OTHER COUNTRIES						
France—						
Tungsten ore	n.a.	n.a.	504	463	233	416
Tungsten metal, etc. .. .	6	9	9	12	15	32
Germany (Federal)—						
Tungsten metal, etc. .. .	142	129	174	200	198	245
Portugal—						
Tungsten ore	2,972	4,113	3,867	2,691	1,365	2,449
do. residues	815	292	437	52	—	—
Ferro-tungsten	161	329	365	216	61	124
Spain—						
Tungsten ore	2,513	1,906	1,502	530	744	596
Sweden—						
Ore	103	142	67	117	240	87
Ferro-tungsten	173	110	59	48	64	184
Algeria—						
Tungsten ore	—	—	1	—	—	—
Belgian Congo—						
Tungsten ores	1,174	1,491	1,493	1,042	1,147	1,212
Egypt—						
Tungsten ore	12	—	17	n.a.	n.a.	n.a.
Morocco—						
Tungsten ore	12	6	—	—	—	—

(a) Years ended June 30 of that stated.

EXPORTS OF TUNGSTEN, ETC. (cont.)

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Mexico—						
Tungsten ore and concentrates	950	844	819	253	6	126
(WO ₃ content)	322	336	336	157	4	73
United States—						
Ore and concentrates	35	30	104	146	20	1
Ferro-tungsten	5	1	1	2	1	34
Tungsten metal, alloys and scrap	168	232	294	113	34	150
Tungsten powder	20	47	58	64	58	71
Argentina—						
Tungsten ore	—	746	2,047	1,432	578	—
Bolivia—						
Tungsten ore (WO ₃ content)	2,625	3,180	2,815	2,577	1,316	1,431
Brazil—						
Tungsten ores	1,248	1,162	1,603	1,632	2,001	1,223
Peru—						
Tungsten ore and concentrates (WO ₃ content)	510	590	625	477	518	381
Burma—						
Ore and concentrates	2,054	990	1,220	1,059	784	1,001
Tin-tungsten ores	—	1,441	862	615	625	174
Japan—						
Tungsten ore	185	230	40	20	20	—
Tungsten metal	—	60	22	—	—	—
Ferro-tungsten	55	217	60	5	1	—
Korea—						
Tungsten ore	(a) 4,022	(a) 1,959	(a) 2,913	2,421	4,024	3,283
Thailand—						
Tungsten ore	1,339	1,555	970	946	527	367

(a) Imports into the United States from Korea.

IMPORTS OF TUNGSTEN, ETC.

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Tungsten ores	3,363	4,836	4,758	4,069	4,288	4,357
Tungsten metal, etc. ..	3	8	6	7	3	8
Canada—						
Tungsten ore	3	41	55	103	395	350
Ferro-tungsten	38	51	92	76	89	370
Malaya—						
Wolfram	—	—	—	—	—	12
OTHER COUNTRIES						
Austria—						
Tungsten ore	504	952	1,232	1,171	1,529	2,525
Ferro-tungsten	203	270	95	78	—	415
Belgium-Luxemburg E.U.—						
Tungsten ore	113	33	—	—	12	543
Ferro-tungsten	40	52	69	31	29	71
France—						
Tungsten ore	<i>n.a.</i>	<i>n.a.</i>	1,505	1,497	1,515	1,513
Tungsten metal, etc. ..	4	3	5	5	9	33
Germany (Federal)—						
Tungsten ore	2,894	3,374	3,731	2,346	3,805	4,634
Tungsten metal, etc. ..	127	78	212	179	256	103
Hungary—						
Ferro-tungsten	148	79	174	143	—	<i>n.a.</i>
Italy—						
Tungsten ore	129	113	141	184	72	101
Tungsten metal, etc. ..	8	10	7	14	9	13
Ferro-tungsten	31	100	37	79	55	41
Netherlands—						
Tungsten ore	2	61	33	17	97	113
Ferro-tungsten	5	2	7	1	6	3
Sweden—						
Tungsten ore	413	616	666	840	403	705
Ferro-tungsten	—	49	158	141	62	185
Yugoslavia—						
Ferro-tungsten	<i>n.a.</i>	10	102	47	28	103
United States—						
Tungsten ore	20,754	17,276	17,337	11,809	5,359	4,325
(<i>WO₃ content</i>)	13,615	11,652	11,743	7,891	3,682	3,059
Tungsten metal and carbide						
(<i>W content</i>)	69	40	17	37	45	88
Ferro-tungsten	276	373	479	225	87	294
Tungsten ingots, bars, scrap, etc.	147	204	292	115	111	201
Japan—						
Tungsten ore	134	158	1,105	2,300	356	455
Tungsten metal	6	2	—	1	—	—

URANIUM MINERALS

Statistics of the production of uranium minerals, previously withheld for security reasons, were released for the first time by the major producing countries early in 1957. Complete information for earlier years, however, is still not available.

PRODUCTION OF URANIUM MINERALS.

(Metal content)

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Northern Rhodesia ..	—	—	—	20	38	29
Union of South Africa ..	<i>n.a.</i>	<i>n.a.</i>	3,304	4,315	4,729	4,879
.. .. . £SA	15,371,468	25,348,233	34,742,644	47,631,855	650,430,000	654,500,000
Canada (a)	<i>n.a.</i>	<i>n.a.</i>	1,734	5,024	10,148	11,733
.. .. . £	9,660,459	9,466,038	16,629,871	50,859,836	102,395,044	120,650,412
Australia	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	(b) 400	(b) 550	(b) 950
OTHER COUNTRIES						
Finland	—	—	—	—	—	(b) 25
France	—	<i>n.a.</i>	(b) 180	(b) 350	(b) 550	(b) 650
Belgian Congo	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	(b) 1,700	1,793	1,761
Malagasy Republic (c)	—	<i>n.a.</i>	<i>n.a.</i>	(b) 40	(b) 55	88
United States	<i>n.a.</i>	<i>n.a.</i>	4,500	6,540	9,510	12,410
.. .. . £	<i>n.a.</i>	<i>n.a.</i>	48,000,000	61,000,000	84,700,000	107,000,000
Argentina	3	5	14	16	(b) 20	(b) 20
WORLD'S TOTAL	<i>n.a.</i>	<i>n.a.</i>	(b) 16,000	(b) 23,000	(b) 35,000	(b) 40,000

(a) Producers' shipments.

(b) Estimated.

(c) Uranothorianite, containing an average of 12% uranium.

Uranium is known to have been produced in the U.S.S.R., in several Eastern European countries, Portugal, 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	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom— Radium compounds	266	359	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
.. .. . Grains						
Union of South Africa— Prescribed minerals	14,835,344	29,959,589	38,695,080	49,988,632	53,661,840	49,232,449
.. .. . (a) £SA						
Canada— Ores and concentrates	<i>n.a.</i>	9,648,375	16,646,137	47,736,866	101,284,232	115,949,495
.. .. . £						
Other radio-active materials	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	732,743
.. .. . £						
OTHER COUNTRIES						
Belgian Congo— Radium products	<i>n.a.</i>	<i>n.a.</i>	56,234	89,313	69,786	101,619
.. .. . (Ra content) Mgrams ..						
United States— Radium metal	419	366	—	750	140	2,207
.. .. . (Ra content) Mgrams.						
Mozambique— Uranium minerals	—	8	16	—	—	—
.. .. . Long tons						

(a) Mainly uranium but includes some thorium.

URANIUM MINERALS
IMPORTS OF URANIUM MINERALS, ETC.

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom— Radium compounds <i>Grains</i>	383	98	—	60	441	<i>n.a.</i>
Canada— Radium and compounds .. £	103,345	309,184	109,672	497,765	193,512	142,745
OTHER COUNTRIES						
United States— Concentrates <i>Long Tons</i> (U_3O_8 content) (a) ..	2,893	3,393	5,571	7,661	14,404	16,218
Radium salts <i>Mgrams.</i>	57,879	65,545	43,221	76,206	38,419	32,967
Brazil— Radium and radium products <i>Mgrams.</i>	852	1,157	1,291	497	96	681

(a) Figures represent foreign procurements by the Atomic Energy Commission during the years ended June 30 of that stated.

VANADIUM
PRODUCTION OF VANADIUM ORES
(Metal content)

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
South West Africa ..	511	570	275	200	413	642
Union of South Africa ..	—	—	—	7	283	286
OTHER COUNTRIES						
Finland	<i>n.a.</i>	<i>n.a.</i>	38	259	384	498
Angola (b)	—	27	10	1	18	3
United States (a) ..	4,402	4,449	5,032	6,513	6,488	6,600
Peru	187	70	—	—	—	—
WORLD'S TOTAL (c) ..	5,100	5,116	5,355	6,980	7,586	8,029

(a) Shipments.

(b) Vanadium content of vanadium-lead ore.

(c) 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

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom— Ferro-vanadium ..	6	23	9	9	7	14
South West Africa— Concentrates (<i>V content</i>)	485	511	333	252	<i>n.a.</i>	<i>n.a.</i>
Union of South Africa— Oxide	—	—	—	5	519	521
OTHER COUNTRIES						
Italy— Oxide	—	2	10	—	—	2
Sweden— Ferro-vanadium ..	34	47	54	43	80	97
Belgian Congo— Ore	<i>n.a.</i>	<i>n.a.</i>	700	—	—	—
Mexico— Concentrates	—	193	8	47	<i>n.a.</i>	<i>n.a.</i>
United States— Ore, concentrates, etc. (<i>V content</i>)	19	772	829	446	563	1,107
Flue dust and other waste (<i>V content</i>) ..	11	39	13	52	5	66
Ferro-vanadium ..	63	196	124	120	68	135
Peru— Ore and concentrates (<i>V content</i>)	193	82	—	—	—	—

IMPORTS OF VANADIUM

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom (a)—						
Ore	355	—	15	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Oxide	—	3	15	21	282	<i>n.a.</i>
Other compounds ..	1	16	10	6	64	<i>n.a.</i>
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Ferro-vanadium ..	5	13	25	12	12	19
Oxide	14	9	3	17	29	14
France—						
Oxide	53	365	413	396	346	424
Germany (Federal)—						
Ore	1,163	—	—	—	—	—
Hungary—						
Ferro-vanadium ..	94	117	111	76	106	<i>n.a.</i>
Italy—						
Ore	35	114	382	254	51	20
Oxide	2	25	4	32	25	40
Ferro-vanadium ..	17	36	38	65	<i>n.a.</i>	<i>n.a.</i>
Netherlands—						
Ferro-vanadium ..	2	1	8	5	9	3
Sweden—						
Ore	3	—	—	1	—	—
Ferro-vanadium ..	29	39	31	24	7	39
United States—						
Ore	529	260	—	—	—	5
(V content)	176	82	—	—	—	3
Japan—						
Ore	61	38	330	405	153	814
Ferro-vanadium ..	44	—	—	37	—	—

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

VERMICULITE
PRODUCTION OF VERMICULITE

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Kenya	720	340	444	30	86	100
Southern Rhodesia	—	—	272	411	250	45
Tanganyika	—	—	—	—	82	111
Union of South Africa	40,744	51,323	52,426	55,910	48,495	46,784
Australia	—	—	1	—	—	—
India	3	123	927	—	—	2
OTHER COUNTRIES						
Egypt	—	—	—	29	270	(a) 270
Morocco	—	—	—	131	—	—
Sudan	—	—	—	—	118	n.a.
United States (b)	174,587	182,179	171,989	164,274	170,146	184,446
Argentina	n.a.	492	548	256	144	(a) 145
WORLD'S TOTAL	216,054	234,400	226,600	221,000	220,000	232,000

(a) United States Bureau of Mines' estimate.

(b) Sold or used by producers.

EXPORTS OF VERMICULITE

Long tons

Exporting Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Rhodesia and Nyasaland	8	3	2	1	4	7
Union of South Africa	36,834	40,036	47,136	44,197	43,718	52,614

IMPORTS OF VERMICULITE

Long tons

Importing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom (a)	7,777	10,456	10,606	11,055	9,621	15,263
Canada	(£127,530)	(£129,240)	(£135,969)	(£137,314)	(£148,238)	(£167,364)
OTHER COUNTRIES						
France	3,477	5,193	(b) 4,577	(b) 7,453	(b) 10,925	(b) 8,193
Mexico	449	586	311	429	672	808
United States (a)	6,744	9,497	7,207	7,751	7,616	10,597

(a) Exports from the Union of South Africa to the country stated.

(b) May include perlite, etc.

ZINC
PRODUCTION OF ZINC ORE
(Metal content)

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Great Britain	1,432	1,048	674	835	241	—
Northern Rhodesia	(b) 34,529	(b) 33,991	(c) 28,925	(c) 29,554	(c) 30,250	(c) 29,895
South West Africa	19,671	20,741	36,043	49,171	39,964	19,273
Union of South Africa	—	—	457	r 1,059	—	—
Canada (b)	336,153	386,926	377,350	r 369,412	379,553	352,195
India	2,188	2,627	3,715	4,033	3,929	5,401
Australia	252,659	256,564	278,082	291,582	263,024	248,769
TOTAL	646,600	701,900	725,200	745,600	717,000	655,500
Irish Republic	1,534	2,472	1,605	1,600	413	904
OTHER COUNTRIES						
Austria	6,285	6,994	6,043	7,569	7,598	8,030
Bulgaria	n.a.	n.a.	35,100	44,400	49,200	(g) 55,000
Finland (b)	4,434	20,835	38,160	42,326	46,200	53,200
France	11,170	10,843	12,383	12,181	14,630	15,400
Germany (Federal)	92,739	90,677	90,980	92,870	84,046	80,783
Germany (East) (g)	6,400	6,900	6,900	6,900	6,900	6,900
Greece	5,198	7,241	9,081	9,572	14,471	n.a.
Italy	101,414	103,930	110,501	115,760	123,353	121,049
Norway	5,283	6,617	6,257	6,906	8,942	9,739
Poland (c)	139,900	153,700	150,900	156,261	160,047	165,000
Portugal	n.a.	292	559	173	15	—
Spain	92,173	90,448	87,423	79,550	81,040	84,505
Sweden	57,506	57,866	64,997	66,543	69,471	77,276
U.S.S.R. (c) (e)	240,000	255,000	270,000	300,000	325,000	370,000
Yugoslavia	56,297	58,781	56,629	57,171	59,071	59,715
Algeria	26,524	30,530	30,058	28,110	84,466	35,686
Angola	—	—	3	—	—	—
Belgian Congo	82,970	66,700	115,670	105,589	112,184	68,867
Egypt	170	490	n.a.	—	—	—
Morocco	33,910	42,577	38,899	48,093	49,065	54,700
Tunisia	5,095	5,350	4,645	3,495	4,070	3,270
Cuba	—	1,112	1,462	671	(g) 100	—
Greenland	—	—	2,300	8,161	5,930	8,239
Guatemala	3,900	8,347	7,096	n.a.	4,752	—
Honduras (d)	706	1,279	2,043	2,312	1,281	1,274
Mexico	220,215	265,144	244,956	237,221	220,566	259,767
United States (b)	422,742	459,528	484,232	474,763	367,862	379,735
Argentina	16,600	20,900	23,327	29,080	36,000	39,000
Bolivia (a)	20,003	20,990	16,802	19,355	13,997	3,339
Chile	923	2,797	2,650	2,013	1,197	(g) 1,000
Peru (b)	156,058	163,459	172,354	152,017	133,120	(g) 130,000
Burma	6,516	8,221	7,226	9,085	10,769	10,800
China (g)	n.a.	28,000	35,000	39,000	45,000	64,000
Iran (f)	5,200	5,600	4,600	4,500	8,800	n.a.
Japan	107,661	106,953	121,058	133,858	140,715	139,054
Korea (South)	—	r 30	r 400	278	329	4
Korea (North) (g)	—	r 35,000	r 49,000	r 49,000	59,000	59,000
Philippine Republic	—	—	935	297	—	5
Thailand	3,000	3,000	2,000	1,625	536	750
Turkey	5,392	(e) 750	(e) 1,700	(e) 2,000	(e) 2,000	(e) 1,000
TOTAL	r 1,990,000	r 2,180,000	r 2,310,000	r 2,360,000	2,350,000	2,390,000
WORLD'S TOTAL	r 2,640,000	r 2,880,000	r 3,040,000	r 3,100,000	3,070,000	3,050,000

(a) Exports.

(b) Recoverable.

(c) Smelter production.

(d) Imports into the United States from Honduras.

(e) Estimated.

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

(g) United States Bureau of Mines' estimate.

METAL PRODUCTION OF ZINC

Long tons

Production Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom	81,239	81,346	81,470	76,885	74,587	72,966
Northern Rhodesia	26,550	27,900	28,925	29,554	30,250	29,895
Canada	226,219	229,055	228,182	220,818	225,083	227,984
Australia	104,523	101,090	104,993	110,348	114,773	116,461
TOTAL	438,531	439,391	443,570	437,605	444,693	447,306
OTHER COUNTRIES						
Austria	—	2,300	7,500	9,200	10,500	11,300
Belgium	209,730	208,585	227,044	231,922	213,912	220,759
Bulgaria	—	1,337	5,745	7,394	8,104	8,800
France	109,152	110,178	110,806	128,256	146,077	144,924
Germany (Federal)	165,007	175,916	183,003	180,847	173,906	178,331
Italy	64,405	69,457	r 71,265	r 73,310	70,229	72,766
Netherlands	25,627	27,989	28,554	29,540	26,147	31,647
Norway	43,759	44,800	48,002	47,588	44,804	47,514
Poland	139,900	153,700	150,900	156,261	160,047	165,000
Spain	22,908	23,474	22,661	21,552	24,321	24,142
U.S.S.R. (a)	240,000	255,000	270,000	300,000	325,000	370,000
Yugoslavia	13,429	13,550	19,544	28,994	30,754	31,446
Belgian Congo	31,495	33,432	41,419	48,417	52,594	53,944
Mexico	53,997	55,249	55,400	55,672	56,544	54,787
United States (b) (c)	716,451	860,271	878,223	880,175	697,541	713,095
Argentina	10,826	13,287	13,779	13,814	14,172	12,594
Peru	15,120	16,787	9,303	29,002	28,602	26,424
China (d)	12,300	r 26,000	r 34,000	r 37,000	40,000	59,000
Japan	96,228	107,628	130,800	132,614	135,273	153,079
TOTAL	1,970,000	r 2,200,000	r 2,300,000	2,400,000	2,300,000	2,400,000
WORLD'S TOTAL	2,410,000	r 2,600,000	r 2,700,000	r 2,800,000	2,700,000	2,800,000

(a) Estimated.

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

1954	242,655	1957	235,807
1955	272,121	1958	205,654
1956	251,210	1959	246,655

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

	1954	1955	1956	1957	1958	1959
A—High grade—Special	241,213	337,692	318,532	316,109	266,466	295,814
Ordinary	118,732	123,747	145,060	135,997	77,553	64,100
B—Intermediate grade	17,218	21,243	33,653	28,805	17,311	15,619
C and D—Brass special	47,020	71,615	85,974	75,260	73,072	67,237
Selected	1,101	3,486	2,143	1,027	1,161	1,262
E—Prime Western	351,893	361,454	357,261	387,692	303,590	320,686

(d) United States Bureau of Mines' estimate.

PRODUCTION OF ELECTROLYTIC ZINC IN CERTAIN COUNTRIES*

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Northern Rhodesia ..	17,557	17,900	r 20,000	r 20,400	20,600	21,200
Canada	226,219	229,055	228,182	220,818	225,083	227,984
Australia (Tasmania) ..	104,523	101,090	104,993	110,348	114,773	116,461
OTHER COUNTRIES						
France	41,300	43,162	47,390	48,767	59,300	n.a.
Italy	58,092	60,706	63,219	62,856	60,878	n.a.
Norway	43,759	44,800	48,002	47,588	44,804	47,514
Poland	40,600	49,600	55,300	58,300	65,500	69,500
Belgian Congo	31,495	33,432	41,419	48,417	52,594	53,944
United States	277,890	348,117	366,444	365,610	291,472	250,726
Japan	28,805	71,058	81,216	83,419	83,668	98,215

*This production is already included in the Metal table and is not additional.

PRODUCTION OF ZINC DUST IN CERTAIN COUNTRIES

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom	9,344	10,998	10,234	11,246	10,256	11,838
Australia	2,234	2,093	2,246	2,199	2,190	2,575
OTHER COUNTRIES						
France	2,480	3,023	2,453	2,179	1,872	2,436
Germany (Federal) .. .	6,793	6,193	5,301	8,524	7,634	9,035
United States	23,834	26,891	25,043	23,853	23,671	29,248
Japan	3,617	5,048	4,616	5,189	4,587	4,880

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

Long tons

Producing Country	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom (a) ..	22,779	23,067	23,433	22,548	25,222	23,852
OTHER COUNTRIES						
France	54,689	57,563	57,637	61,647	69,268	66,223
United States (b) .. .	43,781	47,390	42,802	35,475	34,704	36,310
Japan	4,346	4,890	5,350	6,393	5,692	6,722

(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		
1954	10,964	1957	11,327		
1955	7,262	1958	11,401		
1956	7,059	1959	13,083		

EXPORTS OF ZINC

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore and concentrates ..	—	3,604	3,228	498	200	4
Ingots, bars, etc. ..	585	608	365	1,062	1,649	1,441
Sheets, plates, etc. ..	2,533	2,149	1,933	1,374	3,763	2,428
Oxide	5,770	6,569	6,183	6,831	9,024	11,094
Lithopone, etc. . . .	2,891	2,087	3,217	2,467	3,379	4,450
Nigeria—						
Ore and concentrates ..	125	—	—	—	—	—
Rhodesia and Nyasaland—						
Ores and concentrates ..	—	—	15,024	2,415	—	—
Ingots	28,344	25,239	29,318	29,666	27,933	30,473
South West Africa—						
Ores and concentrates (Zn content)	19,753	21,375	30,107	55,844	42,647	19,257
Union of South Africa—						
Bars, sheets, etc. ..	1	8	20	2	1	11
Fume, dust, shavings, etc.	107	67	78	287	109	81
Canada—						
Ore (Zn content)	160,868	170,165	177,958	167,090	194,485	151,582
Crude	183,962	190,926	164,043	180,363	174,739	160,315
Dross, scrap and ashes..	4,566	4,880	4,881	4,783	4,992	5,343
Oxide	1,062	1,066	477	924	1,322	1,153
Hong Kong—						
Unwrought, incl. alloys	—	30	148	426	362	443
Plates and sheets ..	56	129	226	463	540	346
Oxide	220	187	149	49	43	45
Lithopone	2,183	197	151	637	380	407
India—						
Concentrates, etc. ..	3,999	4,907	5,068	6,383	4,833	12,417
Dross, scrap and ashes..	n.a.	n.a.	n.a.	745	619	1,593
Malaya (a)—						
Bars, sheets, tubes, etc.	140	112	106	99	255	194
Australia (b)—						
Ores and concentrates (Zn content)	151,445	109,249	152,485	160,267	158,253	152,414
Dust	409	14	34	15	26	36
Ingots, blocks, etc. ..	37,198	32,709	33,715	39,676	30,210	44,998
Scrap and shavings ..	766	530	688	259	393	275
Plates and sheets ..	90	125	179	134	123	32
Oxide	280	324	100	265	79	127
Irish Republic—						
Ores and concentrates	2,472	4,147	4,536	3,390	1,057	2,599
OTHER COUNTRIES						
Austria—						
Ore	10,551	4,859	1,034	15	1,987	20
Crude and alloys ..	746	1,661	3,661	3,412	4,008	4,630
Scrap	2,814	2,704	1,544	673	1,034	154
Zinc-white	46	3	—	—	—	1
Lithopone	1,572	2,212	1,971	1,431	1,546	2,042
Belgium-Luxemburg						
E.U.—						
Ore	54,029	73,388	55,821	55,350	53,437	63,884
Crude	126,876	120,907	138,921	134,187	128,463	121,181
Scrap	3,334	2,390	1,683	2,892	4,854	6,629
Sheets, bars and wire ..	13,803	16,826	18,162	19,101	19,287	15,103
Dust	5,394	8,260	7,088	9,701	8,338	6,885
Lithopone	8,603	12,198	16,528	15,492	10,883	15,050

(a) Including alloys.

(b) Years ended June 30 of that stated.

EXPORTS OF ZINC (cont.)

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Denmark—						
Crude	921	—	243	315	2,516	1,169
Scrap	258	1,367	1,435	992	1,107	1,191
Finland—						
Concentrates	8,250	31,696	80,438	90,083	88,644	118,853
Bars, sheets, scrap, etc. . .	—	—	5	1	411	1,054
France—						
Ore	—	1	2,225	1,279	—	12
Crude	1,173	600	150	280	442	4,256
Bars, sheets and wire .. .	1,248	1,092	1,082	1,220	1,336	2,051
Oxide	2,820	1,930	1,112	1,723	2,260	3,402
Lithopone, etc.	1,079	623	561	524	558	716
Germany (Federal)—						
Ore	5,911	7,258	5,090	829	9,188	16,938
Crude and scrap (a) .. .	12,983	28,833	40,672	23,661	28,859	19,737
Bars, sheets, wire, etc. . .	8,816	9,004	6,754	6,153	5,858	6,631
Dust	891	1,197	978	1,562	2,334	2,343
Zinc-white, zinc-grey .. .	13,376	10,871	11,249	12,911	13,192	17,709
Lithopone	39,036	37,716	41,619	41,948	41,545	39,572
Greece—						
Ore and concentrates .. .	10,413	16,325	17,578	19,150	27,582	32,441
Italy—						
Ore	77,753	56,692	62,032	73,007	87,609	82,586
Crude	19,422	19,201	23,057	13,816	15,436	17,253
Bars, sheets, wire (a) .. .	97	421	36	14	447	278
Oxide	849	353	544	544	363	449
Lithopone	6,012	3,355	4,620	3,692	5,225	5,488
Netherlands—						
Crude	15,635	18,107	20,387	14,967	14,517	25,487
Scrap	4,581	4,721	6,250	5,007	4,977	2,869
Sheets	1,655	1,180	921	1,296	1,303	1,084
Norway—						
Ore	2,854	6,023	5,675	6,056	10,686	10,296
Electrolytic zinc	30,361	32,409	36,627	39,555	36,720	36,146
Ashes and scrap	1,618	1,903	1,409	1,323	1,444	2,039
Zinc-white	2,069	2,083	2,482	1,407	2,714	377
Poland—						
Crude and sheets	86,800	94,900	94,500	91,000	89,000	89,000
Portugal—						
Ore	<i>n.a.</i>	569	1,037	440	—	—
Crude	10	9	6	29	10	9
Zinc-white	20	16	11	16	15	19
Spain—						
Ore	94,877	106,698	90,419	63,431	53,749	129,526
Bars, scrap, sheets, wire, etc.	1	1	4	3	1	408
Sweden—						
Ore	108,613	104,915	125,728	135,827	136,131	141,555
Crude	98	518	116	154	362	12
Scrap	108	218	195	439	620	1,006
Zinc-white	830	990	914	559	645	747
Switzerland—						
Crude and scrap	5,303	5,937	5,226	5,738	5,124	4,945
Dust	13	52	41	61	87	42
Zinc-white, etc.	108	161	174	227	279	317
U.S.S.R.—						
Concentrates	<i>n.a.</i>	36,400	32,600	—	36,800	65,700
Crude	<i>n.a.</i>	34,900	50,100	71,000	65,400	72,100
Yugoslavia—						
Concentrates	41,703	43,808	29,610	23,984	26,783	27,987
Crude	1,331	2,700	2,250	14,569	11,809	9,301
Plates, sheets and strips	652	384	1,115	1,742	2,500	2,552

(a) Including alloys.

EXPORTS OF ZINC (cont.)

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Yugoslavia (cont.)—						
Dust	2,146	1,423	1,522	1,680	1,651	1,658
Oxide	331	318	925	1,048	496	1,639
Lithopone	1,006	1,051	1,513	1,007	347	883
Algeria—						
Ore	45,676	63,750	60,945	50,682	52,559	73,571
Crude	189	206	57	8	25	40
Scrap	322	305	425	357	423	428
Bars, sheets, wire	6	6	178	24	34	53
Oxide	1	3	1	2	—	—
Angola—						
Ore	—	—	—	295	—	—
Belgian Congo—						
Ores and concentrates ..	118,727	101,447	70,467	78,073	82,363	73,748
Electrolytic zinc ..	29,507	32,703	38,901	48,866	50,403	52,836
Egypt—						
Ore	449	2,017	394	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Morocco—						
Ore	70,259	88,503	62,521	102,266	54,381	97,941
Tunisia—						
Ore	13,882	13,082	10,946	7,963	6,250	6,020
Cuba—						
Crude	—	587	1,681	795	—	<i>n.a.</i>
Greenland—						
Ore	—	—	4,761	12,692	8,507	9,367
Guatemala—						
Ore	6,317	15,762	18,545	18,942	11,328	<i>n.a.</i>
Honduras—						
Ore and concentrates ..	—	341	859	1,357	—	—
Mexico—						
Ores and concentrates	310,733	365,178	382,631	357,848	297,661	345,842
Refined	39,118	47,986	40,381	41,602	35,916	40,144
Oxide	101	387	853	1,203	1,337	2,155
United States—						
Ore and concentrates (b)	—	—	763	6	—	1
Crude	22,317	16,133	7,870	9,630	1,851	10,383
Scrap (b)	14,901	19,296	13,332	4,883	4,771	10,118
Sheets, strips, etc. ..	2,643	2,325	2,717	2,390	3,409	3,151
Dust	454	397	332	531	463	465
Oxide	2,778	2,365	2,454	2,807	2,270	2,247
Lithopone	2,690	1,689	1,239	885	547	480
Bolivia—						
Ores (Zn content) ..	20,003	20,990	16,802	19,355	13,997	3,339
Brazil—						
Ore	—	1,153	—	—	—	—
Chile—						
Concentrates	—	4,157	8,716	5,481	2,165	<i>n.a.</i>
Peru—						
Ores, etc. (Zn content) ..	95,072	125,893	134,749	117,333	105,920	128,862
Bars (Zn content) ..	15,658	18,349	6,914	26,668	28,494	25,237
Burma—						
Concentrates	32,691	40,266	31,237	36,751	36,744	29,706
Iran (a)—						
Ore	<i>n.a.</i>	<i>n.a.</i>	12,201	11,810	15,473	<i>n.a.</i>
Japan—						
Crude	2,065	4,406	14,626	11,514	7,068	8,589
Oxide	(c) 37	(c) 109	108	172	77	44
Lithopone	78	102	213	12	22	—
Philippine Republic—						
Concentrates	—	—	1,083	1,476	—	—
Turkey—						
Ore	217	588	984	982	1,575	3,486

(a) Years ended March 20 following that stated.

(c) Including sulphide.

(b) Zn content.

IMPORTS OF ZINC

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore and concentrates ..	192,863	200,252	180,760	207,355	121,194	152,325
Ingots, bars, etc. ..	153,036	159,522	125,747	146,713	133,523	173,810
Sheets, plates, etc. ..	668	1,090	418	451	779	754
Oxide	37	36	54	4	5	—
Lithopone, etc. . . .	2,122	2,286	2,838	2,828	4,358	2,685
Ghana—						
Unwrought and bars, rods, sheets, etc. ..	76	50	41	26	65	65
Kenya (c)—						
Unwrought, incl. scrap	96	49	59	37	88	68
Bars, plates, sheets, etc.	7	26	10	21	44	40
Nigeria—						
Unwrought and bars, rods, sheets, etc. ..	66	43	63	42	90	50
Rhodesia and Nyasaland—						
Sheets, dust, etc. ..	179	124	102	147	148	180
South West Africa—						
Crude, sheets, etc. ..	1	(a)	(a)	(a)	(a)	(a)
Tanganyika (c)—						
Bars, sheets, scrap, etc.	7	17	22	7	16	31
Union of South Africa—						
Bars, rods and ingots ..	22,004	(b) 11,840	(b) 21,432	(b) 17,785	(b) 22,895	(b) 14,622
Sheets and strips ..	364	(b) 571	(b) 494	(b) r 264	(b) 114	(b) 196
Lithopone	2,526	(b) 3,009	(b) 1,924	(b) 2,129	(b) 1,928	(b) 1,646
Oxide	256	(b) 346	(b) 351	(b) 233	(b) 292	(b) 273
Dust and shavings ..	52	(b) 49	(b) 61	(b) 17	(b) 34	(b) 62
Canada—						
Dust	266	375	438	604	485	602
Ingots, sheets, plates, bars, etc. ..	1,209	1,688	1,510	1,369	1,537	1,796
Zinc-white	924	719	544	1,281	621	646
Lithopone	2,269	1,691	2,049	1,219	1,109	875
Ceylon—						
Blocks, ingots, etc. ..	12	13	26	50	65	85
Sheets and plates ..	29	15	32	21	19	17
Hong Kong—						
Unwrought, incl. scrap	141	232	700	r 1,180	2,477	2,747
Sheets and plates ..	843	1,268	1,025	952	797	629
Oxide	485	599	527	545	508	527
Lithopone	3,571	1,713	1,463	2,439	1,695	2,102
India—						
Crude	37,597	31,028	35,258	47,910	57,122	46,921
Sheets, etc.	2,190	1,742	2,059	1,632	660	143
Zinc-white	7	51	4	9	8	7
Lithopone	1,250	729	417	279	133	163
Malaya—						
Bars, sheets, tubes, etc. (c)	2,863	1,414	643	1,059	960	878
Pakistan (d)—						
Crude	915	2,160	285	519	674	1,525
Zinc-white	105	194	177	134	263	248
Lithopone	399	676	458	809	1,091	507
Australia (e)—						
Dust	2	} 131	154	132	156	129
Bars, sheets and scrap	58					
Oxides	109	210	218	7	7	5
Lithopone	1,871	2,225	1,925	2,415	1,353	1,623

(a) Included with Union of South Africa.

(b) Including South West Africa.

(c) Including alloys.

(d) Years ended March 31 following that stated, up to 1955 inclusive.

(e) Years ended June 30 of that stated.

IMPORTS OF ZINC (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES (cont.)						
New Zealand—						
Crude, ingots, bars, etc.	1,198	r 1,705	r 1,416	r 1,655	2,532	2,339
Sheets and plates	225	r 222	r 295	r 272	295	216
Oxide	237	r 443	r 419	r 353	314	144
Zinc-white	251	n.a.	n.a.	n.a.	n.a.	n.a.
Lithopone	405	426	r 213	173	266	177
Irish Republic—						
Unwrought (a)	1,063	1,679	1,351	1,452	1,582	1,524
Wrought (a)	407	389	357	334	364	296
OTHER COUNTRIES						
Austria—						
Ore	4,766	9,580	6,419	4,037	10,369	11,555
Crude and alloys	7,620	9,601	5,959	4,447	3,918	3,070
Sheets, bars, etc.	12	26	102	127	165	88
Zinc-white and zinc-grey	233	364	407	389	374	786
Lithopone	25	193	418	540	359	20
Belgium-Luxemburg						
E.U.—						
Ore	475,451	541,807	536,351	514,382	453,528	526,753
Crude	4,977	885	571	777	3,336	491
Scrap	43	68	240	9	36	861
Sheets, bars and wire	196	34	57	15	15	25
Dust	13	61	8	261	280	166
Oxide	1,303	1,408	1,140	1,235	1,221	1,234
Lithopone	1,512	1,577	1,725	1,540	1,713	1,980
Denmark—						
Crude	6,638	5,560	4,511	5,557	9,665	11,296
Scrap	83	75	82	143	270	513
Plates, sheets and wire	5,628	4,718	5,382	4,733	5,856	5,409
Zinc-white	1,798	1,726	1,987	1,596	1,627	1,940
Lithopone	1,988	1,763	1,866	1,727	1,849	1,883
Finland—						
Crude	5,800	7,578	4,504	6,245	2,995	5,361
Scrap	35	45	126	54	72	54
Sheets	821	466	288	538	326	435
Zinc-white	848	878	529	520	646	802
Lithopone	1,753	1,596	1,353	1,735	1,309	1,631
France—						
Ore	237,612	296,558	285,363	308,039	346,203	236,309
Crude	21,348	14,778	11,394	10,271	14,596	13,597
Scrap	6,316	6,957	7,153	6,578	8,946	4,035
Dust	3,935	2,022	1,744	2,243	1,412	1,498
Sheets, bars and wire	91	107	864	55	89	100
Oxide	900	380	586	399	197	541
Lithopone	8,289	12,799	17,110	16,295	9,700	16,165
Germany (Federal)—						
Ores	53,767	102,034	114,526	109,123	177,297	142,087
Crude and scrap (a)	53,979	66,894	59,849	66,821	75,858	104,665
Bars, sheets, wire, etc.	1,516	4,843	3,929	4,861	8,086	6,997
Dust	2,187	2,937	2,593	1,962	2,161	2,198
Zinc-white and zinc-grey	2,210	3,040	2,265	2,972	2,165	2,151
Lithopone	2,018	2,180	2,883	2,743	2,297	2,659

(a) Including alloys.

IMPORTS OF ZINC (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Greece—						
Crude	1,399	1,434	1,562	2,101	2,183	2,773
Plates and sheets	618	686	553	654	732	448
Zinc-white	369	464	375	340	324	240
Lithopone	1,779	2,305	2,625	2,527	2,864	3,009
Hungary—						
Crude	5,217	6,957	6,960	5,932	7,107	n.a.
Iceland—						
Crude	14	12	27	20	37	36
Bars, sheets, wire, etc.	33	39	42	29	35	23
Zinc-white	37	26	67	34	53	32
Italy—						
Ore	703	867	1,072	20	2,528	20
Crude	5,322	5,222	4,592	8,615	6,407	6,749
do. (alloys)	1,291	637	847	913	941	309
Scrap	1,243	940	1,281	2,461	1,061	4,743
Dust	427	587	1,149	938	928	146
Bars, sheets, wire (a)	85	98	166	123	294	97
Oxide	140	165	303	558	400	472
Lithopone	1,016	650	704	739	980	1,029
Netherlands—						
Ore	70,849	65,031	45,948	69,629	71,262	72,952
Crude	17,159	7,565	8,432	10,041	12,285	9,973
do. (alloys)	837	1,175	927	1,451	908	1,398
Dust	545	555	616	662	717	799
Scrap	250	263	371	226	488	796
Sheets, bars and wire	3,868	3,596	4,624	4,308	4,695	4,174
Oxide	1,714	1,432	1,511	1,464	1,272	1,468
Lithopone	1,305	1,231	2,481	2,010	1,821	1,731
Norway—						
Ore	83,318	100,766	75,566	92,703	88,260	61,278
Ashes and scrap	1,179	922	1,326	1,330	1,056	750
Crude	360	359	1,601	750	172	260
Bars and sheets	679	724	1,095	861	1,236	1,411
Zinc-white	657	762	753	736	331	496
Lithopone	610	601	495	395	422	358
Poland—						
Concentrates	79,400	78,800	89,600	150,000	105,000	141,000
Portugal—						
Crude, scrap and dust	1,573	1,717	2,422	2,743	2,854	2,682
Oxide	917	822	783	786	720	617
Lithopone	1,255	1,488	1,647	1,619	1,985	1,926
Spain—						
Bars and scrap	1,492	6	398	4,092	9,466	7,719
Sweden—						
Crude	28,353	25,934	25,796	23,664	22,846	29,107
Scrap	—	17	3	1	—	61
Sheets	1,614	1,447	1,369	1,513	1,276	861
Zinc-white	4,950	4,990	4,994	5,071	4,484	4,703
Lithopone, etc.	6,553	6,475	6,172	5,945	6,267	6,173
Switzerland—						
Crude and scrap	16,874	15,699	16,068	17,943	15,009	14,180
Dust	1,572	1,812	931	1,395	1,035	1,235
Bars, sheets, pipes and wire	1,489	1,336	1,384	1,256	1,405	1,270
Zinc-white, lithopone, etc.	7,504	8,522	9,868	9,067	8,535	8,496
U.S.S.R.—						
Crude	n.a.	46,600	47,300	32,000	30,900	40,900
Yugoslavia—						
Crude	—	2,460	1,086	318	30	227

(a) Including alloys.

IMPORTS OF ZINC (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Algeria—						
Crude	148	2	—	3	18	1
Bars, sheets, wire	546	765	590	800	888	795
Oxide	597	536	315	455	547	733
Lithopone, etc.	502	755	922	783	1,253	1,401
Angola—						
Bars, sheets, wire	140	72	104	154	95	107
Oxide	33	41	42	39	37	30
Belgian Congo—						
Crude and scrap	20	28	2	4	11	—
Oxide	63	79	188	88	67	92
Lithopone	372	154	590	478	369	481
Egypt—						
Crude, sheets and scrap	816	1,132	1,117	896	1,054	1,752
Zinc-white	286	427	444	863	713	481
Lithopone	2,368	2,666	2,483	2,341	4,211	1,614
Malagasy Republic—						
Bars, sheets, wire	86	58	117	73	171	102
Oxide	13	16	4	8	9	4
Morocco (Southern)—						
Crude	591	413	131	338	597	387
Bars, sheets and wire	255	219	177	103	169	163
Oxide	380	418	361	303	344	325
Lithopone	1,071	951	955	829	901	926
Mozambique—						
Crude, bars and sheets.	4	10	11	8	9	20
Oxide	21	18	33	23	35	34
Tunisia—						
Crude and dust	102	2	75	12	104	63
Sheets	103	90	65	34	80	69
Oxide	162	109	53	87	61	75
Lithopone	281	415	215	318	419	<i>n.a.</i>
Cuba—						
Crude	151	206	650	<i>r</i> 312	204	<i>n.a.</i>
Bars and sheets.	108	127	367	108	126	<i>n.a.</i>
Mexico—						
Crude, sheets and scrap	156	32	602	338	75	98
Oxide	<i>n.a.</i>	<i>n.a.</i>	47	22	32	38
United States—						
Ore (<i>Zn content</i>)	429,391	343,436	412,838	606,621	480,862	401,011
Crude	142,980	174,160	218,505	240,021	165,797	146,752
Dross and scrap	970	254	537	527	867	1,016
Sheets	231	385	405	654	804	849
Dust	—	64	64	100	86	129
Oxide	2,096	2,964	3,274	4,683	10,472	14,741
Lithopone	58	27	128	51	61	65
Argentina—						
Crude and bars.	1,968	6,397	6,244	1,369	7,867	6,955
Sheets and plates	154	—	—	8	—	—
Zinc-white	—	—	—	1	—	1
Brazil—						
Crude	20,812	13,737	18,977	15,253	22,766	21,476
Bars, sheets and plates	1,158	1,440	238	117	93	27
Zinc-white	4,885	3,152	4,729	2,542	2,647	1,200
Lithopone	<i>n.a.</i>	5,710	7,776	7,739	6,138	7,516
Chile—						
Crude	4,097	3,108	1,561	2,258	2,459	1,477
Bars and sheets.	280	179	134	173	<i>n.a.</i>	163
Zinc-white	4	4	3	—	<i>n.a.</i>	<i>n.a.</i>
Lithopone	432	450	214	—	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Crude, sheets, bars and wire including alloyed	489	590	406	559	695	1,718
Zinc-white	778	876	931	1,053	942	616
Lithopone	317	624	640	1,015	292	316

IMPORTS OF ZINC (cont.)

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
OTHER COUNTRIES						
<i>(cont.)</i>						
Peru—						
Crude, bars, sheets and powder	72	113	122	113	115	162
Zinc-white and lithopone	532	400	384	627	436	411
Uruguay—						
Crude and sheets	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,232	648	1,421
Lithopone	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	673	269	1,000
Zinc-white	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	301	343	365
Venezuela—						
Crude	6	—	4	6	17	<i>n.a.</i>
Oxide	478	334	577	517	580	<i>n.a.</i>
Lithopone	727	713	824	754	735	<i>n.a.</i>
Burma—						
Crude	15	78	164	378	140	158
Formosa—						
Crude (a)	7,767	827	818	1,655	1,057	605
Bars, rods and alloyed	162	329	190	281	260	271
Indonesia—						
Crude, scrap and dust	40	19	21	134	29	42
Bars and sheets	455	409	524	629	627	886
Zinc-white	1,025	2,562	1,601	2,236	1,536	1,332
Iran (b)—						
Crude, sheets and wire	28	<i>n.a.</i>	56	128	59	<i>n.a.</i>
Oxide	268	<i>n.a.</i>	154	247	<i>n.a.</i>	<i>n.a.</i>
Lithopone	476	<i>n.a.</i>	578	708	<i>n.a.</i>	<i>n.a.</i>
Iraq—						
Crude, sheets, etc.	27	26	265	77	185	<i>n.a.</i>
Israel—						
Crude and sheets	1,435	1,755	1,810	1,941	2,660	2,897
Lithopone	845	846	677	829	1,173	753
Japan—						
Ore	3,820	10,683	37,519	58,430	19,631	58,695
Crude	4,375	5,182	6,109	7,324	7,982	9,295
Scrap	142	205	7	23	53	170
Dross	295	35	52	981	—	12
Plates and sheets	4	8	12	86	14	11
Lebanon—						
Crude	22	70	19	252	190	467
Oxide and lithopone	165	177	142	107	101	172
Philippine Republic—						
Crude and sheets	101	136	1,627	3,970	4,136	11,610
Dust	83	95	90	97	113	93
Oxide	810	474	491	898	776	1,045
Lithopone	159	249	500	467	232	332
Syria—						
Oxide and lithopone	349	586	655	613	720	494
Thailand—						
Crude	22	17	—	17	19	431
Bars and sheets	967	794	1,324	1,251	1,631	1,040
Oxide	<i>n.a.</i>	125	293	136	215	142
Turkey—						
Crude	691	32	747	445	487	1,570
Bars, sheets, wire, etc.	1,967	3,801	792	764	846	2,457
Oxide	1,565	1,035	1,159	824	133	1,880
Lithopone	1,286	1,102	1,173	205	635	1,764

(a) Including alloys.

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

ZIRCONIUM MINERALS

PRODUCTION OF ZIRCONIUM MINERALS

Long tons

Producing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Gambia (a)	—	—	—	—	10	—
Nigeria	—	—	—	—	90	<i>n.a.</i>
Union of South Africa ..	—	—	—	—	1,008	5,289
India	—	3	3	10	<i>n.a.</i>	<i>n.a.</i>
Malaya (a)	—	81	45	41	25	81
Australia—						
Zircon concentrates ..	41,453	48,673	72,458	88,561	59,269	112,978
OTHER COUNTRIES						
Egypt	97	112	359	40	(c) 40	<i>n.a.</i>
French West Africa ..	—	—	1,130	3,681	6,800	8,533
Malagasy Republic ..	—	—	—	—	23	44
United States (d) ..	16,035	25,098	39,441	(e) 50,716	(f) 27,181	<i>n.a.</i>
Brazil (b)	3,726	2,958	2,526	1,606	9,349	9,684

Zirconium minerals are also known to have been produced in Ceylon 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): 1954—219; 1955—167; 1956—212; 1957—*n.a.*; 1958—1,129; 1959—1,254.

(e) Florida only.

(f) Excluding Idaho.

EXPORTS OF ZIRCONIUM MINERALS, ETC.

Long tons

Exporting Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
Gambia—						
Zircon	—	—	—	—	10	—
Union of South Africa—						
Zircon concentrates ..	—	—	—	—	391	4,821
Malaya—						
Zircon	—	81	45	41	25	81
Australia—						
Zircon concentrates ..	36,512	46,685	68,838	85,254	60,895	108,820
OTHER COUNTRIES						
Belgian Congo—						
Ore	<i>n.a.</i>	<i>n.a.</i>	24	—	37	—
French West Africa—						
Zircon	965	—	758	3,892	4,970	8,149
United States—						
Ores and concentrates	617	696	936	2,821	1,780	1,349
Zirconium metal, etc. ..	18	48	9	30	45	40
Brazil (a)	1,181	1,381	492	98	—	49

(a) Chiefly baddeleyite.

IMPORTS OF ZIRCONIUM MINERALS, ETC.

Long tons

Importing Country and Description	1954	1955	1956	1957	1958	1959
COMMONWEALTH COUNTRIES						
United Kingdom— Zirconium ores ..	5,627	9,168	12,138	19,848	17,778	28,063
Canada— Zirconium oxide ..	(£3,652)	(£6,994)	(£6,199)	(£7,704)	(£8,263)	(£14,443)
Zirconium silicate ..	(£49,790)	(£42,315)	(£70,540)	(£135,104)	(£54,219)	(£56,104)
OTHER COUNTRIES						
France— Zirconium ore ..	<i>n.a.</i>	<i>n.a.</i>	8,966	9,806	7,853	9,285
Germany (Federal)— Zirconium ore ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	6,964	16,869
Italy— Zirconium ore ..	103	130	6,862	2,862	9,928	4,146
United States— Zirconium ore (a) ..	16,658	25,974	27,803	37,225	17,165	48,998
Zircon (b) ..	14,554	24,591	27,099	37,196	17,121	47,902
Baddeleyite (c) ..	1,257	1,383	295	—	—	—
Zirconium metal ..	—	—	—	42	105	3

(a) As recorded in official trade returns. The zircon and baddeleyite shown are *not* additional but have been separated by the U.S. Bureau of Mines from this item.

(b) Zircon content of zirconium ore, rutile and ilmenite concentrates imported from Australia.

(c) Imported from Brazil. May include some zircon.

OTHER MINERALS AND METALS

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

Country and Description	1954	1955	1956	1957	1958	1959
Germanium (in terms of metal)						
PRODUCTION†—						
South West Africa Lb.	—	10,000	20,000	12,000	14,000	16,000
Belgian Congo Lb.	1,680	4,810	8,240	19,990	35,850	30,080
United States . . Lb.	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	(a) 40,000
Indium						
PRODUCTION*—						
Canada Troy ounces	477	104,774	363,192	384,360	69,000	<i>n.a.</i>
Peru Troy ounces	—	—	4,790	—	—	<i>n.a.</i>
Perlite						
PRODUCTION—						
United Kingdom Ton	—	—	889	440	113	413
Australia . . Ton	<i>n.a.</i>	—	339	—	300	708
New Zealand . . Ton	146	198	132	275	360	378
Greece Ton	—	—	—	—	8,201	<i>n.a.</i>
United States . . Ton	233,057	299,274	312,700	377,095	332,000	396,000
IMPORTS—						
United Kingdom £	21,026	43,270	69,821	97,506	58,941	<i>n.a.</i>
Sodium Carbonate (Natural)						
PRODUCTION—						
Kenya Ton	96,074	124,744	146,326	118,440	111,038	151,405
Union of South Africa Ton	1,168	996	1,095	—	—	—
United States (b) Ton	470,787	547,852	582,938	582,783	562,000	656,000
EXPORTS—						
Kenya	102,341	116,614	137,148	116,456	104,016	148,177
Tellurium						
PRODUCTION—						
Canada Lb.	8,171	9,014	7,867	31,524	38,250	96,954
United States (c) Lb.	97,114	179,822	232,555	254,865	170,495	196,387
Peru Lb.	—	2,341	88	—	14,870	62,600
Japan Lb.	992	992	331	717	100	2,760
IMPORTS—						
Germany (Federal) Lb.	9,480	22,046	9,700	11,244	16,800	18,100

†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.

(c) Including tellurium content of compounds.

MINERALS PRODUCED IN COUNTRIES OF THE BRITISH COMMONWEALTH

The following list comprises those minerals produced in Commonwealth countries during the period 1954-1959 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.

<p style="text-align: center;">Aden</p> <p>Salt</p> <p style="text-align: center;">Australia</p> <p>Antimony Asbestos Barytes Bauxite Bentonite Beryl Bismuth Cadmium China Clay Chrome Coal Cobalt Copper Corundum Diamonds Diatomaceous earth Emery Felspar, China stone Fluorspar Fuller's earth Garnet Gold Graphite Gypsum Iron Lead Lithium Magnesite, Dolomite Manganese Mica Molybdenum Monazite Perlite Phosphate Platinum, Osmiridium Pyrites Salt Selenium Sillimanite, Andalusite Silver Sulphur Talc, Pyrophyllite Tantalite, Columbite Tin Titanium Tungsten Uranium Vermiculite Zinc Zircon</p> <p style="text-align: center;">Bahamas</p> <p>Salt</p>	<p style="text-align: center;">Bahrein (Protected State)</p> <p>Petroleum</p> <p style="text-align: center;">Barbados</p> <p>Natural gas</p> <p style="text-align: center;">Basutoland</p> <p>Diamonds</p> <p style="text-align: center;">Bechuanaland</p> <p>Asbestos Gold Kyanite Manganese Silver</p> <p style="text-align: center;">British Guiana</p> <p>Bauxite Columbite Diamonds Gold</p> <p style="text-align: center;">Brunei</p> <p>Natural gas Natural gasoline Petroleum</p> <p style="text-align: center;">Canada</p> <p>Arsenic Asbestos Barytes Bentonite Bismuth Cadmium Coal Cobalt Copper Diatomaceous earth Felspar Fluorspar Gold Graphite Gypsum, Anhydrite Indium Iron Lead Lithium Magnesite, Dolomite Mica Molybdenum Natural gas Natural gasoline Nepheline syenite Nickel Petroleum Platinum</p>	<p style="text-align: center;">Canada—(cont.)</p> <p>Potash salts Pyrites Salt Selenium Silver Sulphur Talc Tantalite, Columbite Tellurium Thorium Tin Titanium Tungsten Uranium Zinc</p> <p style="text-align: center;">Ceylon</p> <p>Garnet Graphite Gypsum Mica Monazite Salt Zircon</p> <p style="text-align: center;">Christmas Island</p> <p>Phosphate</p> <p style="text-align: center;">Cyprus</p> <p>Asbestos Bentonite Chrome Copper Gypsum Pyrites Salt</p> <p style="text-align: center;">Fiji</p> <p>Copper Gold Iron Manganese Silver</p> <p style="text-align: center;">Gambia</p> <p>Titanium Zircon</p> <p style="text-align: center;">Ghana</p> <p>Bauxite Diamonds Gold Manganese Salt Silver</p>
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Minerals produced in countries of the British Commonwealth (cont.)

Hong Kong

China clay
Felspar
Graphite
Iron
Lead
Tungsten

India

Asbestos
Barytes
Bauxite
Bentonite
Beryl
China Clay
Chrome
Coal
Copper
Columbite
Corundum
Diamonds
Felspar
Fuller's earth
Garnet
Gold
Graphite
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
Felspar
Gold
Graphite
Gypsum
Kyanite
Magnesite
Mica

Kenya—(cont.)

Pumice
Salt
Silver
Sodium carbonate
Talc
Vermiculite

Kuwait

(Protected State)

Petroleum

Leeward Islands

Salt

Malaya

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

Malta

Salt

Mauritius

Salt

Nauru Island

Phosphate

New Guinea

Gold
Platinum
Silver

New Zealand

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

Nigeria

China clay
Coal
Felspar
Gold
Lead
Monazite, Thorite
Petroleum
Salt

Nigeria—(cont.)

Silver
Tantalite, Columbite
Tin
Tungsten
Zircon

Northern Rhodesia

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

Nyasaland

Asbestos
Corundum
Kyanite

Ocean Island

Phosphate

Pakistan

Bauxite
Chrome
Coal
Gypsum
Iron
Natural gas
Petroleum
Salt
Strontium
Talc

Papua

Gold
Manganese

Qatar

(Protected State)

Petroleum

Sarawak

Bauxite
Gold
Petroleum
Phosphate

Seychelles

Phosphate

Sierra Leone

Chrome
Columbite
Diamonds
Gold
Iron
Platinum

Minerals produced in countries of the British Commonwealth (cont.)

Somaliland	Swaziland —(cont.)	Union of South Africa —(cont.)
Beryl	Pyrophyllite	Felspar
Phosphate	Silver	Fluorspar
Tantalite, Columbite	Tin	Fuller's earth
Southern Rhodesia	Yttrotantalit	Garnet
Antimony	Tanganyika	Gold
Arsenic	China clay	Graphite
Asbestos	Coal	Gypsum
Barytes	Copper	Iron
Beryl	Diamonds	Lead
Chrome	Garnet	Lithium
Coal	Gold	Magnesite
Copper	Graphite	Manganese
Corundum	Gypsum	Mica
Diamonds	Lead	Molybdenum
Felspar	Magnesite	Monazite
Fluorspar	Mica	Nickel
Gold	Phosphate	Oil-shale
Iron	Salt	Phosphate
Lead	Silver	Platinum, Osmiridium
Lithium	Tin	Pyrites
Magnesite, Dolomite	Tungsten	Salt
Manganese	Vermiculite	Sillimanite, Andalusite
Mica	Trinidad	Silver
Nickel	Gypsum	Sodium carbonate
Phosphate	Natural asphalt	Talc
Pyrites	Natural gas	Tantalite
Silver	Natural gasoline	Tin
Talc	Petroleum	Titanium
Tantalite, Columbite	Sulphur	Tungsten
Tin	Turks and Caicos	Uranium
Tungsten	Islands	Vanadium
Vermiculite	Salt	Vermiculite
South West Africa	Uganda	Zinc
Beryl	Asbestos	Zircon
Bismuth	Beryl	
Cadmium	Bismuth	United Kingdom
Copper	Cobalt	Arsenic
Diamonds	Copper	Barytes, Witherite
Fluorspar	Gold	Bromine
Germanium	Iron	China clay
Graphite	Lead	China stone
Iron	Lithium	Coal
Lead	Mica	Copper
Lithium	Phosphate	Diatomaceous earth
Manganese	Salt	Fluorspar
Mica	Silver	Fuller's earth
Phosphate	Tantalite, Columbite	Germanium
Salt	Tin	Gypsum, Anhydrite
Sillimanite, Kyanite	Tungsten	Iron
Silver	Union of South Africa	Lead
Tantalite, Columbite	Antimony	Magnesite, Dolomite
Tin	Asbestos	Oil-shale
Tungsten	Barytes	Perlite
Vanadium	Beryl	Petroleum
Zinc	Bismuth	Pyrites
Swaziland	China clay	Salt
Asbestos	Chrome	Strontium
Barytes	Coal	Sulphur
Beryl	Copper	Talc
Coal	Corundum	Tin
Fluorspar	Diamonds	Tungsten
Gold	Diatomaceous earth	Zinc

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