

OVERSEAS GEOLOGICAL SURVEYS
MINERAL RESOURCES DIVISION

STATISTICAL
SUMMARY OF THE
MINERAL INDUSTRY

WORLD PRODUCTION,
EXPORTS AND IMPORTS

1955-1960



LONDON
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1955-1960

Errata

Page 105	U.S.S.R. 1960 - for 4,500,000 read 450,000
Page 115	World's total 1960 - for 16,000,000 read 26,000,000
Page 147	Iran. 1960 - for - read n.a.
Page 211	Total 1959 - for 47,572 read 43,572

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This publication is prepared by the Statistical Section of the Mineral Resources Division of Overseas Geological Surveys.

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CHANGES IN THIS ISSUE

Iodine.

Statistics relating to Iodine are included for the first time.

Congo.

In this issue the designation "Congo Republic" has been used for the former Belgian Congo and the designation "Congo (Republic of)" for the former French Territory of Middle Congo.

Equatorial African Community.

In this issue the designation "Equatorial African Community" has been used for the former French Equatorial Africa. It comprises the four countries: Central African Republic, Gabon Republic, Congo (Republic of) and Chad (Republic of). Separate statistics for each of these countries are shown as far as possible.

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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.

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.85) and Petroleum and Allied Products (pp. 231, 243).

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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Kenya—						
Pumice (b)	<i>n.a.</i>	1,635	2,071	733	2,246	2,420
Nyasaland—						
Corundum	18	—	—	—	—	—
Southern Rhodesia—						
Corundum	1,044	3,971	4,024	4,102	2,499	3,432
Tripoli	—	—	—	—	—	147
Tanganyika—						
Corundum	—	—	—	—	(a) 9	<i>n.a.</i>
Garnet	—	15	80	120	181	133
Union of South Africa—						
Corundum	745	1,846	1,382	r 1,890	555	110
Garnet	—	—	16	—	—	—
Canada—						
Garnet	—	—	—	—	—	2
Grindstones	9	—	—	—	54	9
Ceylon—						
Garnet	5	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
India—						
Corundum	240	352	444	389	211	246
Garnet	148	178	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Malaya (a)—						
Corundum	2	—	—	—	—	—
Australia—						
Emery	8	—	—	—	—	—
Corundum	9	—	—	—	—	—
Garnet	85	85	70	36	65	83
New Zealand—						
Pumice (b)	7,741	7,614	15,171	23,082	28,395	43,932
OTHER COUNTRIES						
Belgium—						
Grindstones	48	64	64	44	47	49
France—						
Pumice (b)	9,050	12,801	7,840	6,296	1,842	889
Millstones	2,230	1,623	2,619	2,519	} 1,265	728
Sharpening stones	1,093	1,923	73	742		
Germany (Federal)—						
Pumice (d)	2,773,000	3,541,000	2,912,000	2,906,000	3,607,000	4,234,000
Greece—						
Emery	9,000	7,000	7,000	7,000	7,000	<i>n.a.</i>
Pumice	<i>n.a.</i>	70,000	54,681	44,298	64,000	<i>n.a.</i>
Pumicite	36,000	84,000	78,200	84,311	84,000	<i>n.a.</i>
Iceland—						
Pumice (b)	(c) 13,000	(c) 17,000	13,484	(c) 13,000	(c) 13,000	(c) 13,000
Italy—						
Pumice	177,334	205,454	231,511	252,958	361,582	<i>n.a.</i>
Sharpening stones	2,559	1,277	2,192	2,038	1,760	<i>n.a.</i>
Whetstones	731	699	669	384	630	<i>n.a.</i>
Portugal—						
Tripoli	2,231	1,773	1,440	1,034	1,852	1,046
Spain—						
Tripoli	14,221	11,650	12,371	11,481	10,322	12,357
Garnet	198	208	248	363	216	180

*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	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Sweden—						
Grindstones and whetstones	657	875	597	787	<i>n.a.</i>	<i>n.a.</i>
Canary Islands—						
Pumice (<i>f</i>)	842	1,501	—	—	1,640	1,441
Egypt—						
Pumice	161	(<i>e</i>) 150	1,639	1,058	2,461	(<i>e</i>) 2,500
Garnet	166	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Malagasy Republic—						
Garnet	<i>r</i> 209	<i>r</i> 158	345	233	—	—
Mozambique—						
Corundum	8	—	—	—	—	—
United States (<i>d</i>)—						
Emery	9,585	10,851	10,619	6,863	7,638	7,294
Garnet	10,567	8,761	8,729	10,985	13,007	9,395
Pumice and pumicite						
(<i>a</i>) (<i>b</i>)	1,611,150	1,323,405	1,631,230	1,761,568	2,032,250	1,973,540
Tripoli	44,341	40,187	45,283	42,004	47,293	51,529
Grindstones	2,499	(<i>c</i>) 2,490	1,344	761	965	<i>n.a.</i>
Grinding pebbles	1,902	2,080	2,591	1,772	1,513	1,011
Argentina—						
Garnet	150	534	706	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Turkey—						
Emery	6,987	6,282	4,063	3,363	4,753	6,706

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

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

	1955	1956	1957	1958	1959	1960
Silicon carbide	66,917	71,846	74,394	69,221	77,007	75,546
Fused alumina	158,180	162,348	194,810	97,774	135,999	166,165

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):

	1955	1956	1957	1958	1959	1960
Silicon carbide	66,790	85,516	111,329	98,621	118,266	118,946
Aluminium oxide	174,841	174,311	204,028	109,704	141,421	174,916
Metallic abrasives	140,729	125,406	117,413	90,321	113,142	100,342

(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:

1955	28,976 long tons
1956	33,989 " "
1957	18,897 " "
1958	<i>n.a.</i>
1959	<i>n.a.</i>
1960	<i>n.a.</i>

(*b*) Including volcanic cinders used principally for ballast which amounted to 858,505 tons in 1955, 530,947 tons in 1956, 689,629 tons in 1957, 935,652 tons in 1958, 1,332,363 tons in 1959 and 1,436,652 tons in 1960.

(*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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Abrasive, natural ..	2,619	2,543	2,322	1,442	2,339	2,842
do. artificial ..	1,656	2,417	3,221	3,209	3,744	4,558
Grinding wheels, etc. ..	4,927	4,579	4,547	4,150	4,968	5,752
Other manufactured abrasives ..	332	336	296	310	357	343
Rhodesia and Nyasaland—						
Corundum ..	1,590	3,399	4,027	4,343	2,940	3,342
Union of South Africa—						
Corundum ..	760	1,458	1,635	1,206	1,048	108
Canada—						
Natural abrasives, including diatomaceous earth ..	29	40	52	21	59	15
Artificial abrasives, crude ..	230,144	237,478	273,690	168,393	216,869	244,946
Artificial abrasive wheels, etc. ..	(£6,447)	(£6,344)	(£9,181)	(£15,105)	(£78,204)	(£26,121)
Grindstones ..	(£16,378)	(£33,688)	(£17,098)	(£26,161)	(£24,117)	(£17,028)
Hong Kong—						
Grinding and polishing wheels, etc. ..	(£25,918)	(£23,779)	(£15,120)	(£11,642)	170	175
Malaya—						
Corundum ..	2	—	—	—	—	—
Grinding and polishing wheels, etc. ..	66	64	54	52	87	101
New Zealand—						
Pumice (a) ..	1,540	1,093	1,569	1,082	1,128	995
OTHER COUNTRIES						
Austria—						
Emery and other natural abrasives ..	833	710	802	729	41	15
Millstones and grindstones ..	236	568	325	392	6	5
Artificial abrasives ..	1,539	2,060	3,328	2,720	2,236	4,385
Belgium-Luxemburg E.U.—						
Emery and other natural abrasives ..	45	42	33	35	101	120
Corundum, artificial ..	7	8	4	46	53	80
Millstones, grindstones, etc. ..	71	71	81	65	64	(b) 517
Denmark—						
Emery ..	3	3	3	8	2	—
Millstones and grindstones ..	149	270	293	385	37	2
Finland—						
Grindstones, etc. (b) ..	53	93	388	120	261	n.a.
France—						
Corundum and emery	204	185	205	462	724	260
Pumice ..	22	11	12	19	56	30
Other natural abrasives	n.a.	48	80	60	257	107
Millstones and grindstones ..	1,448	799	846	876	804	701
Whetstones ..	41	38	73	60	41	46
Carborundum ..	1,540	1,459	1,604	1,351	2,720	2,660
Corundum, artificial ..	5,481	5,028	5,548	5,613	6,775	9,978

*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	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (Federal)—						
Emery	1,665	256	209	197	321	394
Pumice		862	194	(b) 545,755	(b) 495,421	(b) 649,977
Other natural abrasives		2	1	7	40	9
Millstones, grindstones, etc. (a)	2,595	2,602	2,439	2,206	2,447	1,898
Carborundum	n.a.	n.a.	n.a.	4,200	3,358	5,384
Corundum, artificial	9,077	11,324	12,871	14,368	16,287	20,907
Greece—						
Emery	8,321	4,579	8,258	5,872	3,316	6,090
Pumice	17,993	10,850	38,135	41,006	20,799	2,180
Italy—						
Pumice	49,111	54,919	54,565	68,256	90,948	104,208
Emery and corundum	52	43	169	78	46	312
Tripoli	91	40	45	142	38	73
Millstones	32	116	133	262	386	447
Grindstones	92	87	129	124		
Whetstones	106	95	74	50	85	73
Carborundum	110	108	175	267	882	3,928
Corundum artificial	458	19	200	318	316	3,481
Netherlands—						
Emery, etc.	2,809	2,965	3,317	2,853	3,007	3,876
Norway—						
Emery, etc.	46	25	8	9	—	—
Carborundum	n.a.	n.a.	n.a.	n.a.	13,463	16,720
Sweden—						
Emery	1	5	—	—	1	2
Other natural abrasives	—	1	8	4	15	11
Carborundum	504	580	331	290	765	710
Corundum, artificial	392	473	552	706	852	1,227
Millstones, grindstones, etc.	170	200	142	108	132	126
Switzerland—						
Carborundum, emery, etc., crude	261	56	74	167	22	2,169
do. do. ground	2,299	1,568	1,723	1,632	2,017	
Grindstones	—	1	11	2	5	23
Malagasy Republic—						
Garnet	189	109	323	244	1	n.a.
Mozambique—						
Corundum	—	8	—	—	—	—
Mexico—						
Pumice, etc.	875	190	21	—	232	735
United States—						
Corundum	139	222	186	149	81	49
Emery powder	1,250	1,727	1,046	984	1,216	1,002
Grindstones	404	384	295	250	358	285
Whetstones, etc.	94	56	88	91	152	166
Other natural abrasives	58,670	63,480	65,650	10,677	9,398	9,245
Aluminium oxide, fused	11,781	11,079	9,587	8,156	8,155	9,792
Carborundum	6,313	7,001	6,830	9,506	7,347	7,316
Unfused alumina	105	30	50	68	59	97
Other crude artificial abrasives	51	71	138	89	93	99
Japan—						
Emery	51	124	187	150	172	126
Other natural abrasives	86	147	131	68	61	118
Grindstones, etc.	246	100	141	152	173	215
Artificial abrasives	112	407	263	293	359	345
Turkey—						
Emery	9,230	8,561	7,843	6,468	7,096	6,975

(a) Including artificial.

(b) Including pumice and pumicite for construction purposes.

IMPORTS OF ABRASIVES*

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Emery	4,062	3,923	4,209	2,314	} 3,024	3,350
Garnet concentrates—						
Unground	250	298	431	455	} 8,019	10,294
Ground	357	392	394	339		
Other natural abrasives	9,067	8,125	7,277	6,787	} 14,226	24,520
Aluminium oxide	30,555	25,207	23,067	27,957		
Carborundum	11,387	11,246	9,539	7,883	9,161	14,014
Grinding wheels of hard abrasives	83	119	} 151	177	319	378
Grindstones and whetstones	48	36				
Other manufactured abrasives	106	99	—	—	—	—
Malta—						
Pumice	200	13	78	81	141	73
Kenya and Uganda—						
Grindstones, etc.	37	74	45	46	62	59
Mauritius—						
Grindstones, etc.	(£2,760)	43	44	30	60	58
Tanganyika—						
Grindstones, wheels, etc.	23	22	18	13	21	8
Union of South Africa—						
Emery	44	42	41	96	123	105
Pumice	85	53	62	73	60	63
Other abrasives (£S.A.)	(£141,496)	(£184,574)	(£189,850)	(£186,205)	(£171,616)	(£186,319)
Abrasive wheels and discs .. (£S.A.)	(£76,483)	(£63,303)	(£66,605)	(£70,044)	(£70,455)	(£124,859)
Grindstones, millstones, etc. .. (£S.A.)	(£4,566)	(£5,488)	(£2,933)	(£4,375)	(£5,349)	(£2,777)
Canada—						
Pumice, etc.	(£77,948)	(£88,239)	(£94,935)	(£109,144)	(£74,625)	(£71,816)
Emery, etc.	(£75,512)	(£88,303)	(£92,868)	(£86,096)	(£89,533)	(£74,322)
Artificial abrasives, ground	(£723,285)	(£848,412)	(£820,892)	(£703,823)	(£877,375)	(£752,561)
Buhrstones	(£272)	(£266)	(£219)	—	—	—
Emery and artificial abrasives manufactures	(£124,077)	(£188,795)	(£223,650)	(£203,924)	(£234,754)	(£208,550)
Grindstones and wheels	(£820,294)	(£931,892)	(£886,165)	(£774,907)	(£940,982)	(£860,635)
British West Indies—						
Jamaica—						
Natural abrasives	32	5	5	3	5	2
Grindstones	8	11	6	10	12	12
Trinidad and Tobago—						
Grindstones and wheels	38	18	15	19	25	22
Ceylon—						
Grindstones	(£1,195)	(£11,368)	(£9,969)	(£9,529)	(£11,848)	(£13,909)
Cyprus—						
Grindstones and millstones	(£2,849)	(£2,437)	(£3,926)	(£3,440)	(£6,751)	(£8,417)
Hong Kong—						
Grinding and polishing wheels, etc.	(£40,324)	(£46,509)	(£40,316)	(£35,049)	257	324
India—						
Natural abrasives	n.a.	n.a.	2,384	986	1,973	(a) 3,679
Carborundum	n.a.	n.a.	231	175	116	(a) 223
Malaya—						
Grinding and polishing wheels, etc.	424	450	408	368	462	476

*See also Aluminium, Diamonds and Diatomaceous earth.

(a) Years ended March 31 following that stated.

IMPORTS OF ABRASIVES (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
<i>(cont.)</i>						
Australia (b)—						
Emery	121	107	79	132	93	108
Corundum	13	84	26	93	13	35
Pumice	1,812	1,440	1,210	1,414	1,174	1,215
Grindstones, etc. .. .	182	89	113	87	99	183
Garnet grains	93	25	41	48	53	41
Tripoli	251	300	244	306	454	303
Other natural abrasives	69	45	99	151	81	329
Artificial abrasives .. .	2,773	2,372	2,887	2,793	3,132	2,813
New Zealand—						
Pumice	—	—	2	—	1	—
Corundum, emery, etc.	15	11	9	18	13	19
Other natural abrasives (£N.Z.)	(£2,030)	(£3,565)	(£3,602)	(£2,966)	(£1,968)	(£3,808)
Carborundum, etc. .. .	72	69	50	79	69	44
Grindstones, etc. (£N.Z.)	(£13,148)	(£12,966)	(£17,007)	(£15,022)	(£12,896)	(£15,856)
Irish Republic—						
Grindstones, oilstones, etc.	159	113	102	122	111	136
OTHER COUNTRIES						
Austria—						
Emery and other natural abrasives	298	258	221	200	173	160
Artificial abrasives .. .	3,148	2,910	2,644	3,000	2,269	3,337
Pumice	353	616	510	417	410	659
Grindstones	215	158	64	86	147	221
Millstones	121	117	83	97		
Belgium-Luxemburg						
E.U.—						
Emery and other natural abrasives	1,063	2,403	4,688	945	1,117	1,063
Corundum, artificial .. .	1,269	1,119	1,196	1,094	1,130	1,524
Millstones, grindstones, etc.	216	199	236	161	166	(a) 1,014
Carborundum	1,076	1,575	1,262	1,040	1,204	1,463
Denmark—						
Emery, etc.	265	360	466	380	1,641	616
Pumice	946	1,400	1,406	1,696	2,008	1,986
Carborundum	780	993	608	697	317	429
Millstones and grindstones	181	142	150	210	134	134
Finland—						
Emery, pumice, etc. .. .	672	561	500	479	591	531
Carborundum	242	260	263	275	351	290
Millstones, etc. (a) .. .	—	—	—	3	—	n.a.
Whetstones, grindstones, etc. (a) .. .	1,368	918	739	723	984	n.a.
France—						
Corundum	14	1,668	830	3,030	399	1,811
Emery	2,211					
Pumice	43,279	59,572	91,961	81,843	42,734	37,979
Other natural abrasives	n.a.	160	8	412	164	151
Millstones and grindstones	192	195	103	196	271	178
Whetstones	175	167	94	130	193	142
Carborundum	2,143	1,776	1,793	1,805	1,124	2,012
Corundum, artificial .. .	787	1,023	860	723	494	899

(a) Including artificial.

(b) Years ended June 30 of that stated.

IMPORTS OF ABRASIVES (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (Federal)—						
Emery	8,117	1,340	1,293	991	537	1,457
Pumice, etc. .. .		6,194	6,459	6,144	6,182	9,576
Other natural abrasives		135	76	150	436	1,212
Millstones, grindstones, etc. (a)	323	502	276	331	300	281
Carborundum	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,551	2,375	3,450
Corundum, artificial .. .	1,142	683	499	398	530	2,539
Iceland—						
Millstones, etc. .. .	38	8	13	16	24	12
Italy—						
Emery and corundum .. .	1,866	1,014	1,545	1,896	1,376	2,297
Tripoli	576	543	639	586	536	938
Millstones	125	32	142	36	326	345
Grindstones	123	100	89	95		
Whetstones	51	23	15	15	20	28
Corundum, artificial .. .	2,607	2,719	3,002	2,959	2,822	5,054
Carborundum	2,150	2,375	2,181	1,863	1,304	2,015
Netherlands—						
Emery	4,322	4,137	3,980	3,723	3,362	4,616
Other natural abrasives	2,400	2,085	1,698	1,907	2,117	1,670
Millstones and grind- stones	219	147	142	132	170	(a) 1,247
Corundum, artificial .. .	828	905	1,464	1,526	1,820	2,236
Carborundum	433	479	579	657	739	861
Norway—						
Emery, etc.	620	768	552	581	362	429
Whetstones	3	3	1	3	2	3
Portugal—						
Emery, etc.	382	447	512	613	579	197
Pumice	201	257	201	242	219	115
Millstones	150	64	63	42	75	20
Spain—						
Emery powder	43	22	15	21	112	<i>n.a.</i>
Carborundum	360	340	1,268	395	553	<i>n.a.</i>
Sweden—						
Emery	464	468	586	405	487	728
Pumice	226	192	205	263	584	416
Other natural abrasives	911	605	801	1,019		
Carborundum, etc. .. .	1,771	1,911	2,517	1,815	2,582	3,819
Corundum, artificial .. .	2,693	2,984	3,519	2,630	3,281	7,585
Grindstones, etc. .. .	176	160	128	121	176	94
Millstones	107	41	51	48		
Switzerland—						
Emery, crude	693	811	343	532	304	625
Carborundum, emery, etc., ground .. .	1,156	2,110	2,194	1,874	1,992	
Millstones	32	49	51	83	57	148
Grindstones	300	174	202	169	198	
Whetstones	18	17	17	12	16	26
Yugoslavia—						
Natural abrasives .. .	795	1,090	1,217	1,418	1,179	570
Algeria—						
Emery, corundum, etc. .. .	5	11	95	78	241	102
Pumice (b)	11,276	18,883	23,191	32,625	43,671	45,947
Millstones and grind- stones	156	143	84	181	136	113
Congo Republic—						
Natural abrasives .. .	25	34	27	22	12	<i>n.a.</i>
Corundum, artificial .. .	10	65	128	227	129	<i>n.a.</i>

(a) Including artificial.

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

IMPORTS OF ABRASIVES (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES (cont.)						
Egypt—						
Emery, pumice, etc. ..	3,780	1,921	2,383	1,015	2,555	2,034
Millstones	26	5	21	27	16	1
Grindstones	51	20	14	—	6	16
Whetstones	4	—	—	—	3	1
Malagasy Republic—						
Emery, etc.	7	24	91	65	22	15
Morocco—						
Millstones and grindstones	(a) 109	50	30	46	46	56
Emery, pumice, etc. ..	870	1,152	131	23	35	30
Sudan—						
Grindstones	51	67	119	104	n.a.	n.a.
Tunisia—						
Pumice	3,643	199	7	550	25	11
Millstones and grindstones (a)	99	91	58	109	77	440
Cuba—						
Grindstones	568	700	639	1,035	n.a.	n.a.
Guatemala—						
Emery	15	22	22	24	n.a.	n.a.
Mexico—						
Emery and carborundum	1,078	1,077	1,049	1,306	741	746
Pumice	5	10	360	7	15	27
Millstones and grindstones	665	722	795	784	680	828
United States—						
Corundum, crude	1,249	1,658	3,664	4,183	2,978	2,370
Emery, crude	750	1,750	1,191	11	1,000	—
Corundum and emery, ground	506	429	645	462	8	3
Pumice, crude	26,731	17,399	31,413	34,476	19,393	5,853
do. manufactured	1,337	1,174	1,897	1,673	3,561	3,496
Tripoli, etc.	25	—	8	38	15	34
Crude artificial abrasives	197,143	206,998	251,351	140,830	201,357	223,352
Argentina—						
Emery	1,505	1,751	2,759	2,628	1,919	1,540
Grindstones	—	—	1	1	—	5
Oil stones	10	—	—	—	—	—
Brazil—						
Emery, pumice, etc. ..	129	66	69	63	51	99
Carborundum	296	491	460	478	452	462
Millstones, grindstones, etc.	1,095	814	284	173	144	166
Chile—						
Emery	11	22	68	24	n.a.	n.a.
Carborundum	1	15	7	11	n.a.	n.a.
Millstones, grindstones, etc.	180	314	290	r 185	n.a.	n.a.
Colombia—						
Emery and pumice	42	58	81	50	52	65
Tripoli and other natural abrasives ..	123	213	149	87	32	39
Millstones and grindstones (a)	92	143	107	156	136	176
Peru—						
Emery and pumice	34	38	34	38	55	34
Millstones, grindstones, etc. (a)	99	90	89	59	86	99
Venezuela—						
Emery, pumice, etc. ..	71	82	114	66	88	102
Carborundum	45	86	85	113	77	38

(a) Including artificial.

IMPORTS OF ABRASIVES (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Indonesia—						
Emery	126	235	109	33	47	106
Other natural abrasives	77	195	121	76	37	39
Iran (b)—						
Emery, etc. .. .	<i>n.a.</i>	17	9	12	<i>n.a.</i>	<i>n.a.</i>
Iraq—						
Emery, pumice, etc. ..	3	28	10	9	<i>n.a.</i>	<i>n.a.</i>
Grindstones, whetstones, etc. .. .	29	148	160	170	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Emery	197	161	190	44	106	157
Other natural abrasives	182	242	366	393	472	517
Grindstones, etc. .. .	16	2	33	2	6	10
Artificial abrasives ..	326	212	623	451	479	834
Lebanon—						
Emery	3	5	7	—	6	5
Pumice, etc. .. .	23	6	4	11	10	673
Millstones	25	81	20	7	35	(a) 130
Philippine Republic—						
Emery	<i>n.a.</i>	135	277	176	122	211
Pumice	12	3	2	42	31	—
Other natural abrasives	<i>n.a.</i>	147	176	69	45	39
Syria—						
Emery	99	103	1	98	30	<i>n.a.</i>
Pumice, etc. .. .	267	1	11	1,065	867	<i>n.a.</i>
Thailand—						
Natural abrasives .. .	345	399	492	549	538	485
Turkey—						
Natural abrasives .. .	10	1	3	—	1	—
Millstones and grindstones (a) .. .	96	391	263	186	127	561

(a) Including artificial.

(b) Years ended March 20 of that following.

ALUMINIUM
(Including Bauxite and Cryolite)
PRODUCTION OF BAUXITE

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Ghana (a)	116,285	137,872	185,403	207,120	147,833	224,472
Jamaica (b)	2,645,345	3,141,688	4,595,943	5,721,990	5,125,603	5,744,791
British Guiana (c)	2,435,282	2,480,966	2,201,903	1,585,879	1,674,416	2,477,453
India	90,423	99,266	107,898	166,188	214,548	377,470
Malaya	222,162	264,444	325,629	262,354	381,747	451,958
Pakistan	1,024	3,000	3,316	1,977	2,139	574
Sarawak	—	—	—	136,319	206,848	284,830
Australia	7,563	10,329	7,707	6,909	14,985	36,776
TOTAL	5,518,084	6,137,565	7,427,799	8,088,736	7,768,119	9,598,324
OTHER COUNTRIES						
Austria	18,836	21,744	21,972	23,198	23,602	25,595
France	r 1,470,008	1,438,799	r 1,662,852	1,800,625	1,729,000	2,006,000
Germany (Federal)	3,800	4,800	4,600	3,700	4,400	3,700
Greece	492,271	686,958	820,487	842,682	903,970	(e) 935,000
Hungary	1,221,000	878,600	r 893,140	r 1,032,441	941,634	1,169,748
Italy	322,004	271,426	257,478	294,307	289,596	312,964
Roumania	36,000	51,000	60,000	72,000	70,000	87,000
Spain	6,290	6,921	8,069	8,213	7,538	2,532
U.S.S.R. (e)	2,030,000	2,190,000	2,410,000	2,710,000	2,950,000	3,445,000
Yugoslavia	778,524	867,497	874,211	721,000	802,000	1,009,000
Guinea	485,389	444,400	360,100	325,000	296,220	1,356,052
Mozambique	2,611	3,705	4,963	4,672	4,216	4,764
Dominican Republic (b)	—	—	—	—	759,000	678,000
Haiti (b)	(f)	(f)	263,000	280,000	255,000	268,000
United States (b)	1,788,341	1,744,000	1,416,000	1,311,000	1,700,000	1,998,000
Brazil	44,359	68,653	62,546	68,750	95,466	(e) 98,000
Surinam	r 3,074,000	r 3,430,000	3,324,000	r 2,941,000	3,376,000	3,400,000
Indonesia	259,511	298,510	237,653	338,473	381,137	389,429
TOTAL (d)	r12,200,000	12,500,000	12,700,000	r12,800,000	14,600,000	17,200,000
WORLD'S TOTAL (d)	r17,700,000	18,600,000	20,100,000	r20,900,000	22,400,000	26,800,000

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):

	1955	1956	1957	1958	1959	1960
Metallurgical	1,893,939	1,721,098	1,628,172	1,076,510	1,154,713	1,645,457
Chemical	50,765	76,930	84,405	75,606	92,916	143,926
Refractory	144,458	215,401	125,190	95,030	146,374	160,966
Abrasive	104,550	111,872	164,382	96,910	123,425	148,033

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					
1955	41,131
1956	38,276
1957	48,515
1958	40,323
1959	41,377
1960	41,785

PRODUCTION OF ALUMINIUM

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom (a) ..	24,445	27,582	29,404	26,354	24,519	28,921
Canada	546,913	553,858	497,067	566,162	530,027	680,368
India	7,225	6,501	7,784	8,185	17,081	17,967
Australia	1,248	9,143	10,624	10,869	11,370	11,655
TOTAL	579,831	597,084	544,879	611,570	582,997	738,911
OTHER COUNTRIES						
Austria	56,296	58,474	58,474	55,996	64,528	66,897
Czechoslovakia	23,996	20,869	16,425	25,980	(d) 34,500	(d) 39,000
France	r 126,957	r 147,433	r 157,402	r 166,168	170,279	231,485
Germany—						
Federal (b)	134,901	145,035	151,408	134,606	148,778	166,269
East (c)	26,000	30,000	32,000	34,000	34,000	40,000
Hungary	36,380	34,260	25,585	38,892	44,947	48,752
Italy	60,723	62,701	65,161	63,038	73,802	82,327
Norway	70,627	90,490	94,134	119,444	143,644	162,198
Poland	20,100	21,500	20,038	22,088	22,400	25,600
Spain	10,275	13,334	14,929	15,865	22,284	23,597
Sweden	9,877	12,262	13,356	13,493	15,277	15,732
Switzerland	29,743	29,600	30,569	31,000	33,827	39,103
U.S.S.R. (d)	424,000	450,000	490,000	540,000	620,000	670,000
Yugoslavia	11,317	14,430	17,848	21,339	18,941	24,674
Cameroun	—	—	7,481	r 31,358	41,647	43,246
United States (e)	1,397,965	1,499,066	1,471,169	1,397,819	1,744,743	1,798,659
Brazil	1,638	6,179	8,745	11,698	17,812	(d) 27,600
China (d)	10,000	10,000	20,000	26,600	69,300	78,700
Formosa	6,890	8,621	8,129	8,442	7,367	8,131
Japan	56,600	64,955	66,905	83,242	98,558	131,119
TOTAL	2,500,000	2,700,000	2,800,000	r 2,800,000	3,400,000	3,700,000
WORLD'S TOTAL	3,100,000	3,300,000	3,300,000	3,500,000	4,000,000	4,500,000

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

1955	127,089 long tons
1956	117,679 " "
1957	108,385 " "
1958	109,746 " "
1959	121,373 " "
1960	129,812 " "

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

1955	91,249 long tons
1956	85,864 " "
1957	88,332 " "
1958	100,154 " "
1959	111,276 " "
1960	131,580 " "

(c) Estimated.

(d) United States Bureau of Mines' estimate.

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

1955	299,995 long tons
1956	303,364 " "
1957	323,053 " "
1958	258,531 " "
1959	321,363 " "
1960	293,982 " "

EXPORTS OF ALUMINIUM, ETC.

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Alumina	20,259	26,308	32,725	38,243	33,424	26,349
Ingots, etc. (a)	3,638	9,681	6,896	2,124	3,664	3,901
Scrap (a)	30	15	52	55	134	94
Sheets, strip and plates	8,871	14,160	9,064	8,218	13,158	15,721
do. alloyed	14,678	17,068	12,716	11,977	17,297	14,961
Discs, circles and slugs	5,411	4,541	4,025	2,691	5,043	4,789
do. alloyed	229	341	337	375	949	634
Bars, rods, tubes, shapes						
and wire	5,520	4,478	5,050	1,923	733	715
do. alloyed	4,746	4,473	4,605	3,607	3,953	4,308
Powder	779	791	725	529	954	983
Foil (a)	4,747	5,469	5,357	6,035	7,418	7,157
Aluminium sulphates ..	38,985	42,136	34,619	34,841	30,263	38,457
Ghana—						
Bauxite	116,285	137,872	185,403	207,120	147,833	224,472
Union of South Africa—						
Aluminium sulphates ..	201	188	94	363	69	18
Canada—						
Blocks, bars and ingots	455,921	454,459	427,384	r 432,534	451,198	492,995
Scrap	11,716	8,019	11,502	11,262	14,444	24,616
Sheets, rods, etc.	11,523	6,320	11,244	r 14,178	22,462	26,895
Foil	803	405	210	153	132	117
Jamaica—						
Bauxite (b)	2,172,275	2,575,121	3,641,353	4,799,037	4,196,793	4,147,555
Alumina	183,969	207,332	435,746	373,108	399,210	665,361
British Guiana—						
Bauxite dried	1,916,891	1,789,765	1,734,064	1,168,637	1,242,381	1,787,963
do. calcined	252,330	317,878	287,130	195,649	272,305	306,958
Hong Kong—						
Unwrought (a)	58	271	7	24	5,054	10,380
Scrap	191	267	94	229	334	542
Plates and sheets	26	171	106	433	784	1,059
Foil	72	177	357	180	184	88
India—						
Bauxite	8,766	4,405	8,467	20,549	23,189	(d) 92,129
Aluminium sulphates ..	n.a.	n.a.	246	129	135	(d) 449
Malaya—						
Bauxite	259,442	251,853	340,624	246,605	363,809	447,996
Unwrought (a)	—	16	10	10	16	4
Bars, sheets, tubes, wire,						
foil (a)	360	333	225	155	286	274
Aluminium sulphates ..	381	211	477	242	341	347
Sarawak—						
Bauxite	—	—	—	r 92,840	202,925	260,120
Australia (c)—						
Bauxite	—	—	—	—	12	—
Pigs, ingots, etc. (a) ..	—	—	764	1	3	91
Scrap (a)	120	59	118	130	218	732
Bars and sheets (a) ..	29	31	20	109	128	685
OTHER COUNTRIES						
Austria—						
Bauxite	8,406	6,962	6,765	8,516	6,498	5,584
Crude (a)	24,974	24,002	22,524	31,695	37,642	21,399
Scrap	1,956	2,469	3,240	4,681	4,027	4,011
Sheets, rods, wire, foil,						
etc.	5,116	7,786	7,224	6,300	11,139	8,799

(a) Including alloys.

(d) Years ended March 31st following that stated.

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

(c) Years ended June 30 of that stated.

EXPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Belgium-Luxemburg						
E.U.—						
Alumina and hydrates ..	23	1	1	1	15	109
Crude	836	577	421	738	590	252
Scrap	170	110	387	2,586	1,489	1,788
Bars, sheets, tubes, wire, foil (a)	15,231	18,063	19,633	25,908	33,620	43,079
Aluminium sulphates ..	26,708	28,487	18,097	16,407	16,583	17,504
Denmark—						
Refined cryolite ..	17,942	18,930	21,638	20,655	21,320	23,198
Crude	248	49	22	224	68	29
Scrap	343	197	290	298	613	706
Sheets, wire, foil, etc., (a)	101	130	103	132	856	1,210
France—						
Bauxite	345,628	320,109	320,232	303,794	271,288	312,097
Cryolite	—	—	3	79	118	79
Alumina	79,595	96,325	113,738	172,215	184,685	139,413
Aluminium hydrates ..	12,594	8,631	11,136	7,677	17,388	12,579
Ingots	21,957	12,962	13,169	39,359	32,758	56,428
do. alloys	8,113	1,824	2,772	9,630	18,037	14,208
Scrap	386	452	448	1,321	1,273	1,333
Bars, sheets, wire, etc., do. alloys	4,256	2,519	2,870	4,626	5,330	7,515
Foil	1,725	2,861	2,460	4,222	7,083	10,328
Powder	306	535	692	1,319	2,497	4,356
Aluminium sulphates ..	90	42	122	186	285	442
Germany (Federal)—	5,403	5,479	6,489	6,283	6,905	9,436
Bauxite and cryolite ..	60	21	74	165	668	406
Alumina	76,374	71,506	75,987	84,749	90,357	66,398
Aluminium hydrates ..	16,348	17,809	17,941	18,631	25,109	24,776
Crude and scrap (a) ..	611	1,544	7,110	4,273	1,949	2,910
Bars, sheets, wire, etc. (a)	11,863	12,010	10,993	12,698	16,390	18,870
Foil	6,693	8,172	8,561	9,669	12,959	15,946
Powder	1,037	1,072	1,086	1,562	1,311	1,579
Aluminium sulphates ..	38,579	36,471	39,567	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Greece—						
Bauxite	471,114	658,874	769,024	823,243	841,198	891,358
Hungary—						
Bauxite	545,439	369,674	459,419	529,977	458,915	490,959
Alumina	77,806	87,238	88,097	85,376	112,201	119,241
Crude	9,702	6,047	1,841	17,067	8,272	9,693
Italy—						
Alumina	34,569	40,130	38,389	53,098	41,973	42,736
Aluminum hydrates ..	560	1,087	16	637	89	90
Crude	4,549	3,132	1,058	8,872	9,284	894
Bars, sheets, wire (a) ..	2,661	3,340	2,988	4,643	5,495	4,027
Foil	203	163	395	445	537	969
Aluminium sulphates ..	5,481	3,381	2,152	4,470	2,219	8,728
Netherlands—						
Crude (a)	3,585	652	654	2,207	1,726	647
Scrap	1,250	1,398	1,567	4,123	1,611	1,847
Bars, sheets and wire ..	777	1,196	901	1,946	2,203	383
Foil	141	231	279	239	252	314
Norway—						
Alumina	3	4	5	—	1	2
Crude	(a) 60,463	(a) 78,259	(a) 71,054	(a) 108,085	125,786	125,853
do. alloys	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	4,234	10,105
Scrap	109	134	96	124	158	420
Sheets, etc.	2,544	3,902	3,582	3,839	4,185	4,856
Roumania—						
Bauxite	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	36,400	80,700	86,700

(a) Including alloys.

EXPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Sweden—						
Crude	588	706	459	3,042	941	5
Sheets, tubes and wire	2,691	2,391	3,510	2,979	5,348	5,688
Scrap	821	308	2,482	2,524	1,685	904
Aluminium sulphates ..	8,687	7,506	9,426	9,598	9,794	9,617
Switzerland—						
Blocks, ingots, etc. and scrap	4,523	2,709	2,927	8,522	10,924	} 7,342
do. (alloys)	2,624	2,044	2,551	3,856	3,760	
Bars, sheets, tubes and wire	1,243	1,120	997	1,010	1,482	} 8,917
do. (alloys)	2,284	2,499	2,333	2,766	3,330	
U.S.S.R.—						
Cryolite	1,900	1,300	1,000	100	100	3,100
Crude	40,900	59,000	84,100	113,100	76,200	67,000
Yugoslavia—						
Bauxite	647,951	668,754	688,916	583,019	592,019	790,398
Alumina and hydrates ..	19,605	13,594	12,502	3,592	23,450	19,317
Crude	2,798	2,595	2,541	5,384	—	—
Scrap	297	528	1,262	1,274	1,191	59
Bars, rods and wire ..	381	490	574	2,393	4,510	6,664
Plates and sheets ..	12	127	1,639	3,428	5,023	6,765
Algeria—						
Ingots	—	9	—	—	—	—
Scrap	278	325	353	355	441	563
Cameroun—						
Ingots	—	—	6,763	r 21,938	38,586	41,408
Guinea—						
Bauxite	441,911	449,844	369,436	r 259,454	275,693	693,703
Alumina	—	—	—	—	—	168,669
Mozambique—						
Bauxite	1,763	2,688	4,477	2,916	6,138	4,389
Dominican Republic—						
Bauxite	—	—	—	—	481,266	774,716
Greenland—						
Cryolite	41,131	38,276	48,515	40,323	41,377	41,785
Haiti—						
Bauxite (a)	—	—	373,000	370,629	338,151	395,000
United States—						
Bauxite, etc.	14,117	14,921	60,993	11,868	17,403	29,317
Cryolite	154	191	148	147	157	202
Ingots and alloys ..	5,329	30,909	25,987	47,064	108,308	254,446
Scrap	16,331	17,258	16,219	16,880	28,718	70,994
Plates, sheets, bars, etc.	7,150	11,154	12,291	8,199	8,049	16,159
Foil	485	380	791	264	506	1,177
Aluminium sulphates ..	17,495	14,402	17,580	8,807	12,935	10,970
Brazil—						
Bauxite	3,255	16,569	3,115	3,445	2,803	2,018
Surinam—						
Bauxite	3,011,672	3,427,564	3,324,649	2,820,000	3,338,000	3,577,000
Formosa—						
Ingots	3,111	3,926	3,269	1,775	2,045	n.a.
Indonesia—						
Bauxite	258,623	308,301	253,815	385,544	243,087	342,454
Japan—						
Cryolite	—	—	—	101	22	—
Alumina	13,979	28,479	6,174	50,527	94,529	77,854
Aluminium hydrates ..	n.a.	2,104	1,530	695	281	1,443
Ingots, etc.	14,060	2,867	235	4,340	169	6
Bars, rods, plates, tubes and wire	9,665	5,966	3,575	5,515	6,121	6,798
Foil	n.a.	580	675	828	1,069	1,648
Aluminium sulphates ..	2,313	2,424	2,632	3,997	14,117	9,567

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

IMPORTS OF ALUMINIUM, ETC.

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Bauxite	328,058	315,030	354,460	350,742	327,188	378,741
Cryolite	3,403	2,232	2,203	3,622	3,458	3,578
Alumina	30	42	280	239	6,080	7,048
Ingots, etc.	247,185	211,351	184,375	186,311	227,864	258,428
do. alloys	11,295	20,940	6,818	24,011	22,282	52,720
Scrap (a)	459	339	623	1,594	6,698	15,539
Bars, sheets, tubes, etc. (a)	590	517	656	2,272	4,873	11,665
Foil (a)	669	543	857	1,176	1,578	1,861
Ghana—						
Sheets	1,084	958	1,118	733	1,748	342
Kenya (a)—						
Unwrought and scrap	414	331	691	1,053	832	1,634
Bars, sheets, rods, etc. . .	1,142	42	58	37	57	59
Mauritius (a)—						
Bars, sheets, wire, etc. . .	77	185	178	200	196	155
Nigeria—						
Sheets	1,764	1,780	2,084	1,508	2,257	2,445
Rhodesia & Nyasaland—						
Ingots, bars and sheets	386	590	715	600	605	877
Foil	47	94	57	76	90	137
Sierra Leone—						
Sheets	31	98	100	99	38	43
Tanganyika (a)—						
Bars, sheets, rods, etc.	462	37	11	7	9	5
Uganda (a)—						
Bars, sheets, rods, etc.	1,120	40	2	2	4	6
Union of South Africa—						
Ingots, blocks and pigs	5,181	4,510	6,575	6,761	7,301	11,104
Sheet, wire, foil, etc. . .	791	1,572	1,324	1,425	956	2,102
Aluminium sulphates ..	2,704	3,132	3,977	3,367	3,496	3,163
Barbados—						
Bars, sheets, tubes, wire (a)	(£9,638)	(£8,176)	r 121	r 34	57	12
Canada—						
Bauxite and alumina—						
For refining	2,582,227	2,115,296	2,026,327	1,934,371	1,849,998	2,468,174
For other purposes ..	178,403	196,880	241,628	134,615	165,625	195,100
Cryolite	3,038	16,348	14,212	r 6,103	5,369	7,446
Ingots, rods, sheets, etc.	4,763	14,544	r 11,633	r 15,438	7,212	6,421
Scrap	127	1,130	221	220	552	895
Leaf and foil	(£354,479)	(£332,394)	(£350,091)	(£364,828)	(£335,584)	(£448,458)
Powder	195	r 142	323	136	146	134
Aluminium sulphates ..	13,925	12,371	14,394	6,355	7,484	8,877
Trinidad and Tobago—						
Aluminium sulphates ..	216	521	1,847	303	336	298
British Guiana—						
Sheets, etc. (a)	272	207	484	168	222	342
Aluminium sulphates ..	350	321	343	424	480	510
Ceylon—						
Sheets	374	1,121	394	1,101	726	1,245
Foil	357	268	371	406	411	354
Hong Kong—						
Bauxite	177	152	169	315	412	623
Unwrought (a)	1,336	1,294	1,596	2,572	10,081	16,420
Scrap	9	24	5	56	70	39
Bars, sheets, wire, etc.	1,695	2,263	861	1,058	(a) 987	(a) 1,886
Foil	343	362	891	242	406	643

(a) Including alloys.

IMPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
<i>(cont.)</i>						
India—						
Cryolite	<i>n.a.</i>	<i>n.a.</i>	590	1,649	917	(c) 1,662
Alumina	<i>n.a.</i>	<i>n.a.</i>	592	59	9,945	(c) 12,188
Crude	5,566	2,818	5,748	7,049	6,743	(c) 10,283
Bars, sheets, wire, etc. ..	1,063	1,708	14,181	10,505	8,885	(c) 10,936
Scrap	<i>n.a.</i>	<i>n.a.</i>	1,815	126	—	(c) —
Foil	<i>n.a.</i>	<i>n.a.</i>	647	849	1,625	(c) 2,638
Aluminium sulphates ..	310	273	314	293	38	(c) 1
Malaya—						
Unwrought (a)	9	2	4	1	10	9
Bars, sheets, wire, etc. (a)	r 2,410	3,765	2,302	1,462	1,821	2,735
Foil (a)	199	156	196	204	414	391
Aluminium sulphates ..	1,169	3,578	3,064	4,432	4,268	6,778
Pakistan—						
Ingots, blocks, bars, etc. (c)	859	1,119	9,414	1,551	12,416	4,265
Sheets and circles .. (c)	1,000	921	1,530	757	840	926
Aluminium sulphates .. (c)	3,157	1,304	1,440	6,556	1,205	1,430
Sarawak—						
Unwrought (a)	300	1	—	—	—	—
Bars, sheets, wire etc. (a)	148	75	54	72	87	153
Aluminium sulphates ..	7	155	79	72	82	149
Australia (b)—						
Bauxite	9,337	28,716	35,169	55,575	83,311	77,802
Cryolite	88	145	1,257	1,446	1,210	1,582
Alumina	50	54	32	38	36	40
Aluminium hydrates ..	484	745	598	708	320	344
Pigs, ingots, blocks (a)	12,763	12,032	10,396	10,189	15,337	23,401
Bars, sheets, tubes (a)	3,094	2,953	2,802	2,572	2,523	3,308
Wire (a)	6	64	51	54	80	108
Leaf and foil	1,643	1,955	1,949	2,454	2,555	2,760
Powder	417	491	432	457	550	1,452
New Zealand—						
Ingots, etc.	579	288	387	820	802	666
Bars, sheets, tubes, etc. } do. (alloys)	1,983	1,477	1,755	2,499	2,339	3,155
Wire (a)	65	75	120	60	61	111
Leaf and foil	324	380	369	782	542	573
Irish Republic—						
Bars, sheets, wire, etc. (a)	2,912	3,596	2,929	3,147	4,705	4,452
Foil (a)	541	437	573	636	636	460
Aluminium sulphates ..	3,288	3,643	3,368	3,966	3,619	3,479
OTHER COUNTRIES						
Austria—						
Bauxite	6,631	964	5,522	6,076	123	10,390
Cryolite	1,311	207	280	203	266	328
Alumina	101,086	123,028	104,430	99,207	131,001	115,281
Aluminium hydrates ..	3,254	3,296	3,147	3,306	3,314	3,779
Crude, scrap and alloys	154	130	208	384	499	372
Sheets, rods, wires, etc.	70	101	134	414	1,216	1,499
Aluminium sulphates ..	36	119	90	118	1,583	1,614
Belgium-Luxemburg						
E.U.—						
Bauxite	1,184	2,357	1,465	1,520	16,574	7,201
Alumina	211	229	262	463	263	587
Aluminium hydrates ..	11,580	10,010	8,654	8,645	9,302	9,012

(a) Including alloys.

(b) Years ended June 30 of that stated.

(c) Years ended March 31 following that stated.

IMPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Belgium-Luxemburg						
<i>E.U. (cont.)—</i>						
Crude	24,135	31,904	25,194	38,465	43,313	57,265
do. alloys	2,493	1,458	2,116	2,939	5,296	6,106
Scrap	1,228	1,539	2,363	2,446	1,294	1,355
Bars, sheets, wire, foil, etc.	1,487	1,801	1,837	1,506	2,304	5,153
Aluminium sulphates ..	1,335	744	557	172	974	644
Denmark—						
Bauxite	1,210	1,066	703	576	205	400
Crude cryolite	32,983	27,753	(b) 33,000	(b) 28,000	28,977	33,372
Crude	4,687	3,136	3,665	4,252	6,299	6,025
Scrap	223	154	686	731	802	421
Bars, sheets, tubes and wire (a)	1,724	2,107	2,675	2,434	5,432	6,358
Leaf	592	797	576	1,071	1,547	2,077
Powder	53	57	94	58	85	123
Aluminium sulphates ..	3,601	3,996	3,318	3,993	4,082	5,033
Finland—						
Alumina	68	81	53	180	73	1,577
Crude	2,703	2,766	2,571	4,661	7,182	3,953
Bars, sheets and wire ..	5,182	5,719	5,569	4,464	7,536	9,345
Foil	526	505	609	419	548	416
Powder	258	314	371	229	392	458
Aluminium sulphates ..	18,195	20,772	20,823	21,961	21,486	30,270
France—						
Bauxite	10,224	19,392	23,166	38,625	44,251	59,687
Cryolite	1,314	1,532	1,341	2,540	1,437	1,934
Alumina	6	15	104	265	173	43,726
Aluminium hydrates ..	19	52	25	22	35	28
Ingots	1,046	6,918	8,687	28,654	32,805	53,287
Scrap	266	305	137	36	11	72
Sheets, bars and wire ..	389	186	121	328	82	113
Foil	729	1,491	719	408	614	1,193
Aluminium sulphates ..	21	19	17	2	2	—
Germany (Federal)—						
Bauxite	1,111,624	1,291,409	1,236,567	1,055,234	897,596	1,322,085
Cryolite	3,295	2,943	1,807	1,586	1,378	2,155
Alumina	2,178	99	69	403	92	340
Crude	39,251	36,131	38,562	58,620	74,097	163,191
do. alloys	3,851	2,426	1,429	8,005	14,547	14,959
Scrap	36,295	22,753	18,232	28,320	27,941	38,854
Bars, sheets, wire, etc. (a)	600	1,368	866	1,261	2,211	6,781
Foil	299	244	107	135	351	438
Powder	87	56	33	508	259	202
Germany (East)—						
Bauxite	284,049	<i>n.a.</i>	252,006	226,323	251,203	264,150
Alumina, calcined	7,856	15,347	41,852	18,141	14,674	25,508
Greece—						
Crude	1,252	1,165	1,295	1,829	2,497	4,335
Foil	175	290	375	436	434	<i>n.a.</i>
Aluminium sulphates ..	300	555	640	426	431	<i>n.a.</i>
Hungary—						
Cryolite	4,164	3,406	1,717	1,969	2,314	2,426
Crude	1,570	200	10,970	1,890	2,578	492
Iceland—						
Bars, sheets, wire, etc. ..	255	431	591	218	199	352
Italy—						
Bauxite	98,084	109,095	259,767	180,758	232,518	275,678
Cryolite	589	689	494	394	266	364
Alumina	63	40	90	148	780	390
Aluminium hydrates ..	171	673	510	83	137	343
Crude	5,284	9,331	12,343	4,633	13,649	29,265

(a) Including alloys.

(b) Estimated.

IMPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Italy (cont.)—						
Crude alloys	895	2,504	4,668	962	2,130	4,124
Scrap	5,048	7,390	10,244	8,512	14,732	36,324
Bars, sheets and wire (a)	1,589	791	560	592	874	3,079
Foil	560	711	869	1,395	2,344	2,890
Aluminium sulphates ..	464	840	246	243	483	n.a.
Netherlands—						
Bauxite	880	4,257	5,891	7,938	7,701	3,493
Cryolite	124	169	222	120	170	211
Alumina and hydrates	4,485	5,138	5,200	5,447	7,209	7,241
Crude and alloys	11,220	9,879	8,312	8,933	14,026	14,449
Scrap	261	347	570	989	1,322	2,265
Bars, sheets, wire, etc.	6,240	7,559	6,137	6,276	7,883	8,522
Foil	1,764	1,958	1,798	1,685	2,285	2,957
Aluminium sulphates ..	9,597	10,152	11,064	12,290	11,269	9,691
Norway—						
Bauxite	25,778	35,042	28,104	36,083	35,439	28,115
Cryolite	3,110	3,021	4,196	6,099	3,310	4,041
Alumina	137,683	142,102	190,937	193,623	305,289	322,889
Crude	71	1,095	127	1,557	32	354
Sheets and tubes	1,212	1,039	1,310	1,340	2,023	4,156
Foil	98	113	144	139	143	140
Aluminium sulphates ..	10,873	9,262	8,617	9,570	10,155	10,519
Poland—						
Alumina	48,689	36,421	48,945	39,428	40,990	53,037
Crude	5,441	3,933	4,684	6,426	9,939	13,633
Portugal—						
Cryolite	21	13	33	15	28	27
Powder	100	105	93	76	80	96
Ingots, sheets and wire	1,916	2,770	2,504	2,647	2,600	3,541
Aluminium sulphates ..	1,783	1,887	2,012	2,153	2,588	3,046
Spain—						
Bauxite	10,271	21,559	18,617	17,544	8,942	23,300
Alumina	17,984	26,037	31,067	40,614	36,244	n.a.
Ingots and scrap	2,297	2,901	5,053	10,921	6,380	n.a.
Sheets, tubes and wire	434	191	117	404	193	n.a.
Powder	15	11	11	15	11	n.a.
Sweden—						
Bauxite	22,572	23,616	7,963	3,144	12,939	5,476
Cryolite (b)	1,617	(b) 1,028	(b) 1,260	(b) 775	409	673
Alumina and hydrates	23,724	26,509	27,296	18,529	30,065	33,171
Crude	18,626	19,546	15,768	20,634	18,315	21,846
Scrap	64	343	93	5	44	85
Sheets, tubes and wire	4,737	5,949	5,952	5,709	8,012	11,572
Foil	371	620	767	1,050	1,259	1,602
Aluminium sulphates ..	6,213	5,432	684	309	1,183	2,816
Switzerland—						
Alumina, etc.	64,688	59,192	61,840	59,575	55,000	85,888
Blocks, ingots, etc., and scrap	9,684	9,396	10,012	6,923	15,661	} 16,142
do. (alloys)	356	178	197	96	738	
Bars, sheets, tubes and wire	30	191	92	1,414	3,299	} 4,808
do. (alloys)	240	125	159	101	184	
U.S.S.R.—						
Bauxite (c)	119,500	300,900	398,400	443,000	447,200	422,000
Crude	6,900	9,500	—	—	—	—
Yugoslavia—						
Cryolite	1,123	1,211	907	951	758	420
Crude	274	1,024	1,582	—	5,784	15,536
Sheets, tubes, wire, etc.	723	214	171	123	198	186
Foil	27	18	47	117	47	113

(a) Including alloys.

(b) Including artificial.

(c) Imports from Greece.

IMPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Algeria—						
Bauxite	1,575	2,362	2,953	1,575	2,315	2,165
Ingots, sheets, wire, etc.	1,177	1,237	1,011	891	761	842
Aluminium sulphates ..	778	677	810	815	745	887
Angola—						
Bars and sheets ..	106	29	95	102	74	43
Aluminium sulphates ..	129	227	335	207	69	121
Cameroun—						
Alumina	—	—	—	70,576	80,039	73,618
Congo Republic—						
Cryolite	20	35	59	50	3	<i>n.a.</i>
Alumina and hydrates ..	73	233	197	148	—	<i>n.a.</i>
Bars, sheets and wire ..	1,676	1,640	1,774	1,692	1,573	<i>n.a.</i>
Foil	9	55	59	69	60	<i>n.a.</i>
Aluminium sulphates ..	1,107	1,276	669	1,612	1,459	<i>n.a.</i>
Egypt—						
Crude and scrap ..	68	129	216	647	1,463	439
Bars, sheets, tubes and wire	1,279	792	550	965	826	1,378
Foil	254	291	402	434	572	618
Aluminium sulphates ..	9,427	8,746	13,234	17,758	<i>n.a.</i>	<i>n.a.</i>
Malagasy Republic—						
Aluminium sulphates ..	77	50	127	300	184	182
Morocco—						
Bauxite	1,650	1,458	—	—	—	2,436
Ingots and scrap ..	91	30	44	37	20	35
Bars, sheets and wire ..	649	400	483	580	510	972
Foil	<i>n.a.</i>	155	67	161	145	241
Aluminium sulphates ..	861	1,945	501	1,209	1,484	1,932
Mozambique—						
Bars, sheets, wire ..	45	68	68	82	93	128
Tunisia—						
Ingots and scrap ..	11	18	7	39	194	133
Aluminium sulphates ..	304	377	107	316	324	<i>n.a.</i>
Costa Rica—						
Bars, sheets, foil, etc. ..	193	155	214	280	256	298
Cuba—						
Ingots and bars ..	425	410	760	553	<i>n.a.</i>	<i>n.a.</i>
Sheets, tubes, wire ..	1,186	1,304	1,702	1,617	<i>n.a.</i>	<i>n.a.</i>
Aluminium sulphates ..	4,954	1,707	1,204	541	<i>n.a.</i>	<i>n.a.</i>
Guatemala—						
Aluminium sulphates ..	579	789	1,052	999	<i>n.a.</i>	<i>n.a.</i>
Mexico—						
Bauxite, calcined ..	<i>n.a.</i>	—	2,167	3,695	3,534	5,892
Alumina and hydrates ..	2,053	4,604	5,152	3,517	4,125	6,274
Ingots	7,865	7,878	8,690	12,208	9,381	11,026
Bars, sheets, wire, etc.	3,080	461	278	247	290	383
Aluminium sulphates ..	<i>n.a.</i>	661	856	830	705	695
United States—						
Bauxite, crude dried ..	4,882,493	5,669,833	7,098,000	7,915,000	8,149,000	8,744,000
do. calcined ..	107,694	148,676	67,376	29,515	108,657	118,653
Cryolite	19,625	20,645	29,207	21,595	19,734	15,398
Alumina and hydrates ..	3,151	3,487	1,592	47,943	115,506	79,048
Crude and alloys ..	158,618	193,215	198,355	227,966	214,264	138,131
Scrap	36,474	23,207	14,527	8,859	9,749	4,502
Sheets, bars, etc. ..	18,725	20,162	17,479	24,952	45,204	32,748
Foil (a)	1,569	1,476	1,564	2,474	4,044	4,312
Aluminium sulphates ..	4,721	3,159	2,908	3,289	5,083	4,855
Argentina—						
Bauxite	2,638	17,138	12,598	26,574	15,953	29,492
Ingots and bars ..	14,534	19,524	12,385	12,927	9,155	11,887

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

IMPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Brazil—						
Cryolite	313	1,108	645	944	685	1,053
Alumina	262	106	193	15	2,821	51
Aluminium hydrates ..	79	200	178	671	604	862
Ingots	6,348	12,548	12,492	13,885	8,785	14,574
Bars, sheets, tubes, wire	300	1,029	586	437	320	97
Scrap	—	889	—	1	—	—
Foil	15	3	96	116	10	25
Aluminium sulphates ..	2,873	524	11	46	1	—
Chile—						
Ingots	1,046	819	779	1,205	881	<i>n.a.</i>
Bars, sheets and alloys	480	390	95	45	133	<i>n.a.</i>
Aluminium sulphates	14	5	22	1	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Bauxite	—	37	30	1,771	3,025	4,635
Alumina and hydrates	35	69	115	44	439	681
Ingots, etc. (a) ..	1,449	1,804	1,175	2,210	2,952	2,965
Bars, sheets and wire ..	394	848	518	234	125	127
Foil	403	603	465	387	367	397
Aluminium sulphates ..	7,198	8,041	7,591	4,788	398	170
Ecuador—						
Bars, sheets, etc. ..	180	9	63	157	96	<i>n.a.</i>
Aluminium sulphates ..	575	979	596	672	809	<i>n.a.</i>
Peru—						
Ingots and scrap (a) ..	74	86	178	152	206	462
Bars, sheets and wire (a)	887	933	910	796	937	1,322
Aluminium sulphates ..	2,505	2,068	2,086	4,182	3,016	3,297
Uruguay—						
Ingots, sheets, etc. ..	<i>n.a.</i>	<i>n.a.</i>	806	1,342	1,425	2,065
Aluminium sulphates ..	<i>n.a.</i>	<i>n.a.</i>	4,661	2,943	3,202	3,528
Venezuela—						
Crude	33	78	41	433	615	730
Aluminium sulphates ..	2,681	1,990	3,905	3,598	4,993	4,041
Burma—						
Crude	—	113	275	171	173	241
Formosa—						
Bauxite	25,415	36,146	41,277	40,636	32,051	<i>n.a.</i>
Foil	264	175	168	3	2	<i>n.a.</i>
Indonesia—						
Bars and sheets ..	2,371	921	1,716	1,711	1,777	1,670
Aluminium sulphates ..	9,947	5,089	2,454	7,199	5,271	8,065
Iran (b)—						
Ingots, sheets, scrap, etc.	<i>n.a.</i>	754	1,027	1,531	<i>n.a.</i>	<i>n.a.</i>
Aluminium sulphates ..	<i>n.a.</i>	54	54	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Iraq—						
Bars, sheets, wire, etc. .	1,408	1,250	1,076	1,454	<i>n.a.</i>	<i>n.a.</i>
Aluminium sulphates ..	1,477	3,882	963	1,473	<i>n.a.</i>	<i>n.a.</i>
Israel—						
Ingots, bars, sheets, etc.	1,786	2,320	1,338	2,585	2,611	<i>n.a.</i>
Foil	127	180	218	95	10	<i>n.a.</i>
Aluminium sulphates ..	44	468	617	617	571	<i>n.a.</i>
Japan—						
Bauxite	337,890	397,528	484,951	509,054	816,669	1,077,343
Cryolite	21	1,162	1,703	492	1,578	3,076
Ingots, blocks, etc. ..	2	2,484	8,994	400	14,589	22,604
Scrap	810	3,938	6,967	3,404	9,784	13,424
Korea (South)—						
Aluminium sulphate ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	861	2,230	482
Lebanon—						
Ingots, etc. ..	851	629	359	182	220	385
Bars, sheets, wire ..	52	62	109	92	135	378

(a) Including alloys.

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

IMPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960						
OTHER COUNTRIES												
<i>(cont.)</i>												
Philippine Republic—												
Bars, sheets, wire (a) ..	<i>n.a.</i>	2,312	2,118	1,751	1,915	3,722						
Foil	<i>n.a.</i>	495	338	141	151	498						
Aluminium sulphates ..	763	2,468	4,142	4,112	5,919	3,192						
Syria—												
Ingots, etc.	183	92	127	243	79	<i>a.n.</i>						
Thailand—												
Ingots (a)	318	268	277	78	219	327						
Bars, sheets, tubes and wire (a)	}	1,328	1,386	1,758	1,453	1,942						
Foil							228	233	274	285	145	79
Aluminium sulphates ..							1,058	1,489	1,705	1,280	1,073	1,118
Turkey—												
Crude (a)	15	67	183	175	679	254						
Bars, sheets and wire (a)	1,133	381	178	198	828	552						
Aluminium sulphates ..	2,609	2,850	1,899	1,396	2,484	2,197						

(a) Including alloys.

ANTIMONY
PRODUCTION OF ANTIMONY ORE
(Metal content)

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Southern Rhodesia ..	211	65	79	143	99	95
Union of South Africa ..	13,964	13,884	9,840	7,122	12,087	12,106
Canada (a)	—	—	—	—	—	—
Australia (b)	307	287	485	692	628	155
OTHER COUNTRIES						
Austria	440	437	508	616	762	915
Czechoslovakia (h) ..	1,600	1,600	1,600	1,600	1,600	1,600
France	92	230	—	37	—	—
Italy	359	r 277	r 199	r 167	207	283
Portugal	—	—	10	6	6	—
Spain	205	230	200	200	157	217
U.S.S.R. (h)	5,000	5,000	5,000	6,000	6,000	6,000
Yugoslavia (c)	1,580	1,637	1,741	1,639	2,245	2,372
Algeria	r 1,186	r 2,358	r 1,378	r 1,184	1,480	866
Morocco	657	280	385	r 181	225	500
Guatemala	—	—	13	(e) 42	(e) 87	(e) 106
Mexico	3,757	4,484	5,120	2,704	3,234	4,164
United States (d) ..	565	562	633	629	605	567
Argentina	6	2	7	10	—	—
Bolivia (g)	5,273	5,026	6,249	5,159	5,412	5,238
Peru	857	954	821	861	708	613
Burma	3	2	18	7	152	94
China (f)	12,000	12,800	13,700	14,700	14,700	17,000
Japan	319	553	424	266	303	267
Thailand	24	37	2	—	10	—
Turkey	1,644	949	1,100	(g) 1,506	(g) 1,232	n.a.
TOTAL*	r 50,000	r 52,000	r 50,000	r 45,000	52,000	54,000

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

(a) The following figures represent the antimony content of antimonial lead and of flue dust and slags (long tons): 1955—903; 1956—956; 1957—607; 1958—383; 1959—740; 1960—680.

(b) In addition the antimony content of antimonial slag obtained as a by-product of lead refining was as follows (long tons): 1955—615; 1956—616; 1957—724; 1958—664; 1959—652; 1960—633.

(c) Metal.

(d) Secondary metal was recovered as follows (long tons): 1955—21,162; 1956—21,523; 1957—20,147; 1958—17,424; 1959—17,896; 1960—17,950.

(e) Imports into the United States.

(f) United States Bureau of Mines' estimate.

(g) Exports.

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

EXPORTS OF ANTIMONY, ETC.

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Regulus and refined ..	1,433	1,839	1,968	824	719	1,600
Rhodesia & Nyasaland—						
Ore	135	237	211	137	204	272
Union of South Africa—						
Ore	20,236	20,377	12,381	14,519	19,447	20,451
Canada—						
Antimonial lead (Sb content) ..	703	471	301	281	740	737
Hong Kong—						
Ore	7	126	176	751	—	—
Sarawak—						
Ore	—	10	—	—	—	—
Australia (a)—						
Regulus	13	1	5	133	—	12
OTHER COUNTRIES						
Austria—						
Ore	562	629	810	937	878	1,029
Sulphide	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	100	288
Belgium-Luxemburg						
E.U.—						
Oxide	579	417	700	751	707	687
France						
Ore	1	—	5	—	394	5
Crude and regulus ..	386	256	127	160	115	280
Oxide	22	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Germany (Federal)—						
Ore	6	—	—	—	1	53
Regulus, scrap, etc. ..	113	164	154	149	229	400
Oxide	300	317	386	272	368	289
Italy—						
Regulus and scrap ..	—	—	133	65	—	1
Netherlands—						
Regulus	79	11	58	15	40	54
Portugal—						
Ore	38	—	20	—	—	—
Sweden—						
Ore	60	96	52	53	<i>n.a.</i>	<i>n.a.</i>
Regulus	7	14	3	14	5	22
U.S.S.R.—						
Regulus	1,600	1,800	1,600	1,100	2,300	2,500
Yugoslavia—						
Regulus	1,297	1,384	1,344	1,574	1,896	1,970
Algeria—						
Ore	6,349	4,512	4,890	5,468	5,272	3,552
Morocco—						
Ore	1,557	906	844	—	734	546
Mexico—						
Ore	7,311	10,787	12,675	5,625	6,441	9,098
Concentrates	—	—	46	—	—	—
Regulus and refined ..	878	706	469	313	586	538
United States—						
Ore	7	28	57	42	147	756
Metal and alloys	182	30	3	35	8	53
Compounds	169	188	189	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Bolivia—						
Ore (Sb content) ..	5,273	5,026	6,249	5,159	5,412	5,238
Regulus	1	5	24	35	3	5
Peru—						
Ore and metal (Sb content)	815	1,122	745	571	734	948

(a) Years ended June 30 of that stated.

EXPORTS OF ANTIMONY, ETC. (cont.)

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Japan—						
Regulus	3	18	9	3	2	—
Sulphide	<i>n.a.</i>	118	64	18	18	6
Thailand—						
Ore	94	56	32	—	—	—
Turkey—						
Ore	1,168	1,875	2,834	2,509	2,056	2,241
Regulus	147	<i>n.a.</i>	<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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore and concentrates (b)	16,150	15,018	11,237	11,274	11,063	15,623
Rhodesia & Nyasaland—						
Refined and regulus ..	76	105	98	27	47	50
Union of South Africa—						
Refined and regulus ..	313	213	325	152	90	113
Canada—						
Regulus	607	805	801	361	523	377
Oxide	128	117	163	144	228	195
Hong Kong—						
Ore	1	2	106	897	—	—
India—						
Ore	<i>n.a.</i>	<i>n.a.</i>	342	935	1,579	(f) 1,172
Metal	<i>n.a.</i>	<i>n.a.</i>	21	34	81	(f) 17
Oxide	<i>n.a.</i>	<i>n.a.</i>	100	43	73	(f) 90
Sulphide	<i>n.a.</i>	<i>n.a.</i>	353	3	10	(f) 4
Australia (c)						
Concentrates	1,355	532	530	103	36	105
New Zealand—						
Refined and regulus ..	128	94	96	172	90	82
Oxide	141	112	(a) 14	35	28	14
OTHER COUNTRIES						
Austria—						
Regulus	86	145	103	153	141	206
Belgium-Luxemburg						
E.U.—						
Regulus	41	144	107	146	187	(e) 272
Oxide	72	74	80	89	124	176
Denmark—						
Regulus	252	307	274	324	400	228
France—						
Ore	6,348	6,645	5,053	8,752	5,490	6,120
Crude and regulus ..	—	513	111	1	156	465
Oxide and sulphide ..	18	(d) 4	(d) 2	(d) 2	(d) 1	(d) 2
Germany (Federal)—						
Ore	2,020	1,125	1,419	1,305	2,142	2,027
Regulus, scrap, etc. ..	2,104	2,230	2,407	1,938	2,976	4,262
Oxide	99	106	124	159	218	211
Greece—						
Regulus	33	51	68	73	64	<i>n.a.</i>
Italy—						
Ore	—	—	102	352	157	965
Regulus and scrap ..	322	288	173	248	250	478
Oxide	349	245	191	192	127	345
Sulphide	13	12	14	15	14	<i>n.a.</i>
Netherlands—						
Regulus	354	403	218	236	393	417
Oxide	530	519	503	461	592	777
Norway—						
Regulus	131	157	86	49	72	64
Portugal—						
Crude and alloys ..	31	43	47	55	57	<i>n.a.</i>
Oxide	3	2	4	1	9	<i>n.a.</i>
Sulphide	1	3	1	—	1	2
Spain—						
Sulphide	—	5	—	—	—	<i>n.a.</i>

(a) Excess of re-exports.

(b) Including crude.

(c) Years ended June 30 of that stated.

(d) Sulphide only.

(e) Including scrap.

(f) Years ended March 31 following that stated.

IMPORTS OF ANTIMONY, ETC. (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Sweden—						
Ore	108	223	113	31	<i>n.a.</i>	<i>n.a.</i>
Regulus	298	338	119	224	258	373
Switzerland—						
Regulus	226	199	145	342	132	<i>n.a.</i>
U.S.S.R.—						
Regulus	6,900	6,900	100	3,400	—	—
Algeria—						
Regulus	19	13	13	11	12	12
Morocco—						
Regulus	21	21	16	20	15	25
Mexico—						
Oxide and sulphide ..	20	(a) 15	(a) 23	(a) 19	28	(a) 25
United States—						
Ore (<i>Sb content</i>) ..	6,709	5,867	7,320	3,060	5,773	5,764
Crude	41	41	34	122	158	21
Regulus	3,274	3,858	4,832	3,823	3,948	4,885
Oxide	1,973	1,321	1,691	1,459	1,835	2,114
Argentina—						
Ore	561	530	669	1,369	652	296
Brazil—						
Regulus	355	265	295	167	227	45
Oxide	22	42	46	27	39	42
Sulphide	127	187	124	92	116	186
Chile—						
Regulus	82	95	51	15	<i>n.a.</i>	<i>n.a.</i>
Peru—						
Sulphides	4	—	1	—	—	1
Uruguay—						
Regulus	<i>n.a.</i>	<i>n.a.</i>	39	13	32	21
Venezuela—						
Regulus	1	28	7	17	35	16
Indonesia—						
Regulus	205	57	84	79	156	77
Israel—						
Regulus	29	31	56	42	25	<i>n.a.</i>
Japan—						
Ore and concentrates ..	1,849	3,855	3,064	2,278	4,934	5,283
Regulus	2	3	1	6	83	9
Sulphide	<i>n.a.</i>	538	4	181	—	—

(a) Oxide only.

ARSENIC
PRODUCTION OF ARSENIC

Long tons

Producing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Southern Rhodesia—						
White arsenic	454	968	788	610	471	182
Canada—						
White arsenic (a) ..	702	799	1,651	1,037	705	720
OTHER COUNTRIES						
Belgium (b)—						
White arsenic	2,036	2,728	2,035	485	2,823	n.a.
France—						
White arsenic	5,687	8,442	6,810	7,459	7,894	8,400
Germany (Federal) (b)—						
White arsenic, etc. ..	567	298	193	183	161	98
Greece—						
White arsenic	—	40	10	r 12	10	(c) 10
Italy—						
Mispickel (<i>As content</i>) ..	761	484	743	499	411	515
White arsenic	r 1,041	r 1,049	r 828	r 614	1,119	584
Portugal—						
Arsenic oxide (d)	1,680	1,339	1,336	969	599	n.a.
Spain—						
Arsenic oxide (e)	100	260	230	189	286	412
Sweden—						
White arsenic	11,387	9,975	9,940	9,119	11,000	11,564
Mexico—						
Ores (<i>As₂O₃ content</i>) ..	2,907	2,601	4,532	3,047	10,300	11,939
United States—						
White arsenic	9,625	10,894	9,369	10,275	4,633	n.a.
Brazil—						
White arsenic	962	732	168	261	327	(c) 290
Peru—						
White arsenic	—	25	19	329	468	(c) 490
Japan—						
White arsenic	1,706	1,637	1,358	1,276	1,058	1,113

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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
White arsenic and other compounds of arsenic	3,372	4,388	3,727	3,123	2,546	5,996
Canada—						
White arsenic, etc. (a)	420	521	1,442	760	505	471
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Sulphide	117	120	72	128	49	<i>n.a.</i>
White arsenic	2,036	2,728	2,035	485	2,823	<i>n.a.</i>
Arsenates and arsenites	104	279	146	7	33	225
France—						
White arsenic	5,898	4,417	4,210	5,660	8,444	7,778
Arsenates	148	143	162	115	71	131
Germany (Federal)—						
White arsenic, etc.	567	298	193	183	161	98
Arsenates	619	794	346	376	782	386
Italy—						
White arsenic	111	27	5	9	3	50
Netherlands—						
Arsenates and arsenites	218	41	65	—	15	18
Portugal—						
White arsenic	1,684	1,482	1,173	1,046	383	34
Sweden—						
White arsenic	8,367	7,322	8,683	14,939	11,417	13,494
Metallic arsenic	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	92	244
Mexico—						
White arsenic, pure	4,898	5,221	3,056	1,689	5,346	6,454
do. crude	1,447	380	1,856	793	6,338	2,955
United States—						
Arsenate of lead	482	1,144	543	937	625	843
Arsenate of lime	842	280	1,241	569	55	129
Turkey—						
Ore	2	—	—	—	3	—

(a) Including arsenic contained in gold ores exported.

IMPORTS OF ARSENIC, ETC.

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
White arsenic	6,082	5,550	3,293	6,873	4,602	9,815
Canada—						
Sulphide and white arsenic	—	7	1	—	—	—
Arsenate of lead	58	60	33	58	38	29
Arsenate of lime	252	5	36	38	39	30
India—						
Arsenic and its oxides	468	437	483	90	297	(b) 406
Pakistan—						
Arsenic and its oxides	(b) 14	1	5	14	5	60
Australia (a)—						
White arsenic	3,167	3,273	1,778	1,877	2,595	2,618
Arsenate of lead	9	8	4	1	—	n.a.
Other compounds	11	10	—	—	—	—
New Zealand—						
White arsenic, etc.	211	131	128	165	71	71
Arsenate of lead	41	41	25	30	18	9
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
White arsenic	52	99	252	273	108	73
Denmark—						
Arsenate of lead	8	1	1	1	n.a.	n.a.
France—						
Sulphide	5	—	—	3	8	4
Metallic arsenic	21	24	20	17	9	9
White arsenic	72	48	12	16	8	30
Germany (Federal)—						
White arsenic, etc.	2,510	2,183	1,830	2,645	3,358	4,248
Sulphide	21	25	15	19	10	9
Italy—						
White arsenic	357	516	253	288	211	418
Metallic arsenic	3	1	—	2	6	10
Netherlands—						
White arsenic	366	435	668	677	543	529
Arsenates	56	31	55	28	23	85
Portugal—						
Metallic arsenic	1	—	1	1	1	n.a.
White arsenic	7	13	4	16	12	9
Arsenate of soda	—	—	—	3	5	—
Algeria—						
White arsenic	15	13	10	3	22	11
Sulphide	—	—	—	1	1	2
Arsenates	32	44	30	41	17	17
Congo Republic—						
White arsenic	1	—	2	—	—	n.a.
Arsenates and arsenites	42	70	154	142	139	n.a.
Malagasy Republic—						
Arsenates	7	5	8	12	9	12
Tunisia—						
Arsenates	1	—	1	—	1	—
Mexico—						
White arsenic	n.a.	46	101	48	95	6

(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	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
United States—						
Metallic arsenic ..	102	40	61	28	38	65
White arsenic	6,448	5,734	9,049	8,504	17,309	11,450
Sulphide	42	38	19	56	19	14
Arsenates of lime and soda	(a) 77	129	(a) 146	(a) 77	(a) 68	96
Argentina—						
Sulphide	—	—	—	—	—	2
White arsenic	813	514	1,422	894	768	423
Brazil—						
White arsenic	1,971	969	778	730	701	846
Arsenates	—	—	4	10	30	30
Chile—						
White arsenic	76	22	21	22	<i>n.a.</i>	<i>n.a.</i>
Arsenates	104	41	40	6	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
White arsenic	34	16	39	5	44	104
Uruguay—						
White arsenic	<i>n.a.</i>	<i>n.a.</i>	46	172	299	296
Arsenate of lead ..	<i>n.a.</i>	<i>n.a.</i>	174	8	9	66
Japan—						
White arsenic	—	—	—	—	1,524	1,124
Sulphide	30	16	19	21	38	25
Turkey—						
Arsenic compounds ..	11	21	27	—	32	50

(a) Arsenate of soda only.

ASBESTOS
PRODUCTION OF ASBESTOS

Long tons

Producing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Bechuanaland Protectorate	1,274	1,210	1,412	2,022	1,259	1,145
Kenya—						
Anthophyllite	136	152	97	107	39	104
Nyasaland	5	—	—	—	—	—
Southern Rhodesia	93,983	106,226	117,968	113,496	106,874	119,611
Swaziland	29,119	26,674	27,435	22,554	22,149	28,595
Uganda	2	2	—	—	—	—
Union of South Africa—						
Amosite	44,930	44,729	50,713	62,297	64,036	61,277
Blue	43,609	54,632	66,831	69,812	72,444	69,421
Chrysotile	18,335	21,729	22,898	24,467	26,184	26,313
Anthophyllite	165	—	—	—	—	—
Tremolite	—	—	159	248	198	12
Canada (a)—						
Chrysotile	949,822	905,579	934,005	826,188	937,883	998,621
Crude	646	640	555	540	386	295
Fibre	352,764	350,878	360,729	305,859	360,731	431,413
Shorts and Waste	596,412	554,061	572,721	519,789	576,766	566,913
Cyprus	13,666	13,728	13,418	14,727	12,878	(b) 15,328
India	1,397	1,230	r 1,718	1,162	1,344	1,684
Australia—						
Chrysotile	865	1,383	1,993	2,013	1,279	1,017
Crocidolite	4,487	7,286	11,105	11,887	14,680	12,921
New Zealand	154	329	206	405	572	284
Total	1,202,000	1,185,000	1,250,000	1,151,000	1,262,000	1,340,000
OTHER COUNTRIES						
Bulgaria	1,181	984	(c) 1,000	(c) 1,000	(c) 1,000	(c) 1,000
Finland	8,002	8,378	9,803	n.a.	n.a.	n.a.
France	12,000	12,000	14,000	18,333	20,877	25,176
Greece	3	5	8	—	—	—
Italy	31,247	34,757	r 35,547	r 37,946	44,280	50,584
Portugal	50	31	57	88	35	129
Spain	—	—	—	—	17	4
U.S.S.R. (c)	400,000	450,000	450,000	490,000	540,000	590,000
Yugoslavia	3,844	3,718	5,471	r 5,322	4,239	5,330
Egypt	—	—	20	433	448	(c) 500
Eritrea	—	—	49	25	(c) 27	n.a.
Morocco	563	339	118	—	—	—
Mozambique	269	180	136	177	66	20
United States (d)	38,007	36,886	38,976	39,267	40,588	40,378
Argentina	180	44	284	254	(c) 245	(c) 245
Bolivia (b)	—	56	109	—	149	167
Brazil	2,789	3,338	2,370	3,407	3,342	1,408
Venezuela	1,569	5,197	7,490	8,173	4,547	3,870
China (c)	21,000	23,000	29,000	59,000	79,000	79,000
Formosa	361	105	239	42	134	433
Iran (e)	98	(c) 150	(c) 150	(c) 150	(c) 150	n.a.
Japan—						
Chrysotile	6,190	8,601	11,173	9,989	12,173	15,216
Amphibole	—	251	606	—	—	—
Korea (South)	59	50	86	20	79	621
Philippine Republic	—	—	—	—	50	32
Turkey	231	566	89	749	367	213
Total*	500,000	600,000	600,000	700,000	800,000	800,000
WORLD'S TOTAL* ..	1,700,000	1,800,000	1,800,000	1,800,000	2,000,000	2,100,000

*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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Unmanufactured—						
Fibre	3,785	6,442	5,959	5,199	6,178	7,752
Waste, incl. asbestic	968					
Packing, etc.	14,162	13,532	13,760	13,436	11,522	12,610
Cement products	127,050	131,053	105,947	69,858	63,384	59,634
Yarn and cloth	2,889	2,921	2,833	2,708	2,564	3,131
Other manufacturers	12,499	13,780	13,044	12,574	12,767	13,629
Kenya—						
Crude	42	42	5	65	9	29
Rhodesia & Nyasaland—						
Unmanufactured						
Cement sheets	82,569	96,287	95,953	84,804	92,199	114,221
Other manufacturers	(£56,533)	(£3,185)	(£828)	(£1,875)	(£1,392)	—
Union of South Africa—	(£5,464)	(£11,256)	(£1,161)	(£3,000)	(£631)	—
Unmanufactured (a)						
Sheets .. (£S.A.)	122,184	130,987	148,660	142,519	150,456	187,193
Other manufactures (£S.A.)	(£100,733)	(£31,279)	(£32,055)	(£37,972)	(£36,254)	(£58,116)
Canada—	(£306,624)	(£250,965)	(£87,704)	(£48,501)	(£101,950)	(£276,027)
Crude						
Fibre	523	500	570	431	371	215
Shorts and waste	326,768	336,646	351,171	284,179	358,556	408,976
Manufactured	567,197	523,497	568,403	489,167	546,360	544,821
Cyprus—	(£1,055,370)	(£1,361,174)	(£701,529)	(£284,603)	(£263,977)	(£366,963)
Unmanufactured						
India—	12,843	12,504	11,886	13,118	14,403	15,328
Crude						
Manufactured (by sea)	546	116	71	139	32	(e) 20
do. (by land)	(£59,268)	(£51,367)	558	50	159	(e) 599
Malaya—	2,001	326				
Sheets						
Pipes	n.a.	n.a.	7,205	5,548	2,841	3,267
Other manufacturers	n.a.	n.a.	2,213	2,693	2,990	2,666
Hong Kong—	22	32	30	108	69	24
Unmanufactured						
Manufactured	—	1	5	550	—	—
Cement products	(£39,840)	(£33,506)	(£37,879)	(£13,711)	60	95
Australia (b)—	n.a.	n.a.	n.a.	n.a.	341	310
Crude and fibre						
Packing	3,287	6,859	11,644	10,002	7,694	11,394
New Zealand—	(£8,266)	(£8,127)	(£31,498)	(£7,941)	(£111,546)	(£30,690)
Cement products						
(£N.Z.)	(£4,834)	(£7,029)	(£6,560)	(£3,635)	(£4,314)	(£5,690)
OTHER COUNTRIES						
Austria—						
Unmanufactured						
Manufactured	6	—	—	3	28	62
Cement products	116	88	137	490	(c) 1,187	(c) 1,567
Belgium-Luxemburg	1,627	8,240	7,360	5,332	(d) 4,735	(d) 5,541
E.U.—						
Unmanufactured						
Manufactured	300	112	252	778	617	292
Cement products	1,025	891	776	609	612	(c) 995
	115,742	149,389	122,594	113,603	161,556	(d) 220,922

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

(b) Years ended June 30 of that stated.

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

(d) Including manufactures of other fibro-cements.

(e) Years ended March 31 following that stated.

EXPORTS OF ASBESTOS (cont.)

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES (cont.)						
Denmark—						
Unmanufactured ..	55	128	160	103	62	28
Manufactured ..	210	259	242	272	(a) 387	(a) 510
Cement products ..	3,479	1,425	4,963	6,555	(b) 4,387	(b) 5,019
Finland—						
Unmanufactured ..	4,467	4,923	6,992	5,985	5,273	5,463
Manufactured ..	735	442	391	342	443	577
France—						
Unmanufactured ..	2,592	1,917	3,630	3,005	6,169	10,619
Manufactured (a) ..	1,335	999	1,147	1,552	2,481	4,638
Cement products (b) ..	26,275	24,572	30,180	43,336	42,735	64,625
Germany (Federal)—						
Unmanufactured ..	172	224	271	108	218	222
Manufactured (a) ..	2,216	2,584	2,662	2,459	3,132	3,576
Cement products (b) ..	13,888	14,327	16,642	12,625	15,372	22,571
Italy—						
Unmanufactured ..	4,563	5,974	4,726	6,144	9,436	7,062
Manufactured (a) ..	243	346	356	439	659	912
Cement products (b) ..	15,271	32,379	34,407	25,810	33,261	50,214
Netherlands—						
Unmanufactured ..	49	66	25	16	34	35
Manufactured ..	733	1,032	1,095	1,193	1,535	(a) 1,824
Cement products ..	3,680	6,079	4,189	4,651	4,695	(b) 20,567
Portugal—						
Unmanufactured ..	16	6	31	40	56	34
Spain—						
Manufactured ..	92	149	101	120	116	n.a.
Sweden—						
Unmanufactured ..	1	4	1	4	2	28
Manufactured ..	34	17	55	57	(a) 61	(a) 122
Cement products ..	n.a.	n.a.	n.a.	n.a.	6,723	13,507
U.S.S.R.—						
Unmanufactured ..	66,000	88,100	101,800	115,600	126,600	143,800
Yugoslavia—						
Unmanufactured ..	1,975	3,679	4,536	5,016	6,030	5,134
Algeria—						
Cement products (b) ..	9,106	4,711	3,381	2,191	2,705	1,410
Egypt—						
Unmanufactured ..	109	60	—	22	4	—
Morocco—						
Unmanufactured ..	5	18	49	32	—	—
Cement products ..	3,739	5,907	4,230	5,168	5,888	7,348
Mozambique—						
Unmanufactured ..	268	58	369	322	66	79
United States—						
Unmanufactured ..	1,929	2,498	2,477	2,622	3,855	4,876
Spun, woven and packing ..	1,080	1,076	1,293	1,041	1,039	1,181
Brake linings ..	(£1,790,435)	(£1,921,625)	(£1,834,241)	(£1,641,444)	(£1,663,341)	(£1,597,200)
Clutch facings ..	(£332,472)	(£325,293)	(£374,277)	(£388,483)	(£405,393)	(£409,169)
Pipe covering and cement ..	2,714	2,020	3,145	2,727	2,156	3,115
Other manufactures ..	14,638	17,033	15,615	12,465	9,849	8,894
Bolivia—						
Unmanufactured ..	—	56	109	—	149	167
Colombia—						
Cement products ..	2,591	1,664	882	177	168	256
Peru—						
Manufactured ..	—	71	12	22	144	—
Venezuela—						
Unmanufactured ..	799	4,224	5,995	6,826	4,272	3,603

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

(b) Including manufactures of other fibro-cements.

EXPORTS OF ASBESTOS (cont.)

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES (cont.)						
Japan—						
Unmanufactured ..	23	24	30	16	53	36
Manufactured	1,015	525	632	579	898	1,076
Cement products ..	1,866	1,124	1,061	529	896	1,155
Lebanon—						
Cement products ..	1,884	3,000	3,754	6,324	9,997	10,364
Turkey—						
Unmanufactured ..	104	—	5	5	—	5

IMPORTS OF ASBESTOS

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Unmanufactured—						
Crude and fibre ..	121,886	124,505	112,341	109,765	121,531	158,559
Waste, including asbestic ..	22,490	21,635	24,638	21,566	11,887	10,093
Cement products ..	8,405	8,350	8,640	8,595	9,545	14,732
Other manufactures ..	141	234	863	1,028	932	2,536
Channel Islands—						
Manufactured	999	1,292	798	1,109	953	868
Malta—						
Manufactured	(£4,695)	(£3,506)	(£4,941)	(£5,806)	(£6,966)	(£20,612)
Gambia—						
Cement sheets and pipes	335	317	482	727	321	11
Ghana—						
Cement sheets, pipes etc.	21,347	18,888	14,240	11,958	18,814	20,804
Kenya—						
Manufactured	4,400	5,418	5,103	3,130	4,461	5,260
Mauritius—						
Sheet and millboard ..	56	264	326	108	224	226
Other manufactures ..	(£59,418)	600	305	613	1,046	399
Nigeria—						
Cement sheets, pipes etc.	23,332	18,702	20,373	18,274	24,226	28,859
Rhodesia & Nyasaland—						
Cement sheets, etc. ..	(£99,462)	(£87,864)	(£56,803)	(£44,793)	(£33,624)	} (£71,018)
Cement pipes	5,816	6,713	2,159	417	1,375	
Sierra Leone—						
Cement sheets and pipes	879	728	1,507	309	426	1,154
Tanganyika—						
Manufactured	1,610	2,600	1,526	1,226	698	1,560
Uganda—						
Unmanufactured	195	457	187	639	397	817
Manufactured	3,240	3,902	1,296	1,366	1,346	506
Union of South Africa—						
Packing .. (S.A.)	(£264,499)	(£266,691)	(£301,056)	(£291,185)	(£233,431)	(£243,499)
Cement products (S.A.)	(£10,455)	(£13,133)	(£5,730)	(£3,179)	(£7,770)	(£10,121)
Other manufactures ..	(£20,055)	(£59,007)	(£43,076)	(£80,468)	(£280,573)	(£135,058)
Zanzibar—						
Manufactured	246	404	397	205	257	n.a.
Canada—						
Packing	117	180	r 164	135	172	201
Other manufactures ..	(£1,371,384)	(£1,827,761)	(£1,799,192)	(£1,436,101)	(£1,397,962)	(£1,499,746)
British West Indies—						
Barbados—						
Cement products ..	(£29,149)	(£29,508)	r 789	604	984	1,108
Bermuda—						
Sheets, etc.	(£11,643)	(£7,818)	(£9,550)	(£6,221)	(£14,757)	(£6,345)
Grenada—						
Manufactured	(£1,835)	(£584)	(£415)	(£440)	(£85)	n.a.
Jamaica—						
Unmanufactured ..	49	24	45	24	38	34
Manufactured	419	521	751	473	424	533
Cement products	609	809	996	383	548	334
St. Vincent—						
Sheets	2	4	22	1	12	n.a.
Trinidad and Tobago—						
Cement products ..	1,206	523	1,103	485	607	469
Other manufactures ..	251	370	442	417	1,084	305
British Guiana—						
Cement sheets, etc. ..	358	785	872	636	2,409	2,671
Other manufactures ..	969	1,102	187	727	73	199

IMPORTS OF ASBESTOS (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES (cont.)						
Ceylon—						
Unmanufactured ..	—	214	418	974	789	—
Cement sheets, etc. ..	11,123	16,424	11,745	7,375	6,605	6,036
Other manufactures ..	52	46	34	49	33	377
Cyprus—						
Sheets and pipes ..	817	1,740	2,632	1,537	2,044	1,805
Other manufactures ..	(£12,205)	(£9,803)	(£17,019)	(£14,665)	(£28,769)	(£29,168)
Hong Kong—						
Unmanufactured ..	5	1	51	562	5	22
Manufactured ..	(£34,450)	(£59,335)	(£121,179)	(£79,396)	234	373
Cement products ..	n.a.	n.a.	n.a.	n.a.	24,656	29,457
India—						
Unmanufactured ..	12,771	15,391	16,032	18,065	22,387	(b) 21,724
Cement products ..	2,474	7,049	8,034	2,622	2,703	(b) 1,178
Packing ..	(£162,046)	(£97,325)	1,953	842	2,874	(b) 1,288
Other manufactures ..	(£253,366)	(£431,442)				
Malaya—						
Unmanufactured ..	1,885	2,321	2,763	1,903	2,240	2,823
Sheets ..	n.a.	n.a.	18,099	19,200	19,601	20,170
Pipes ..	n.a.	n.a.	795	136	738	460
Other manufactures ..	391	424	431	460	366	483
North Borneo—						
Cement products ..	1,222	1,513	3,153	1,713	1,837	1,522
Other manufactures ..	117	6	4	56	5	14
Pakistan—						
Cement sheets ..	(b) 3,854	2,320	1,434	493	499	102
Sarawak—						
Cement sheets ..	609	1,674	947	652	505	492
Other manufactures ..	8	—	14	11	46	17
Australia (a)—						
Crude ..	42,677	32,219	23,235	32,595	35,767	36,398
Packing, etc. ..	(£404,482)	(£347,342)	(£388,630)	(£581,006)	(£449,316)	(£447,615)
New Zealand—						
Unmanufactured ..	4,103	2,786	1,276	3,915	4,200	4,512
Manufactured (£N.Z.) ..	(£205,351)	(£177,281)	(£189,805)	(£270,337)	(£192,874)	(£184,637)
Cement products (£N.Z.) ..	(£138,311)	(£194,752)	(£355,381)	(£209,254)	(£62,165)	(£42,424)
Irish Republic—						
Unmanufactured ..	1,564	2,607	1,424	1,593	2,047	2,843
Manufactured ..	5,221	2,899	1,700	2,653	2,652	2,465
OTHER COUNTRIES						
Austria—						
Unmanufactured ..	12,281	7,783	10,248	10,994	10,185	12,565
Manufactured ..	202	132	180	205	(c) 246	(c) 331
Cement products ..	29	82	372	264	(d) 105	(d) 907
Belgium-Luxemburg						
E.U.—						
Unmanufactured ..	40,576	43,607	38,800	32,162	45,593	53,135
Manufactured ..	1,761	2,130	2,247	3,720	3,450	(c) 4,301
Cement products ..	1,834	3,716	808	796	996	(d) 1,447
Czechoslovakia—						
Unmanufactured ..	n.a.	17,071	22,105	17,360	23,613	n.a.
Denmark—						
Unmanufactured ..	9,421	12,837	16,501	10,409	16,564	17,164
Manufactured ..	892	1,125	983	958	(c) 1,434	(c) 1,529
Cement products ..	250	193	254	146	(d) 7,595	(d) 11,639

(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	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Finland—						
Unmanufactured ..	1,386	1,948	2,536	3,158	2,556	4,376
Manufactured ..	553	358	300	375	376	446
France—						
Unmanufactured ..	50,551	55,260	66,497	66,366	60,579	67,505
Manufactured (a) ..	958	1,554	1,413	1,406	2,362	1,589
Cement products (b) ..	867	356	1,386	752	753	866
Germany (Federal)—						
Unmanufactured ..	63,327	74,749	91,862	79,884	100,630	130,532
Manufactured (a) ..	709	1,019	1,587	2,187	2,286	4,484
Cement products (b) ..	3,903	10,798	22,322	39,887	47,259	132,622
Greece ..	234	418	193	178	179	n.a.
Hungary—						
Crude ..	4,914	4,739	4,482	7,292	6,825	9,649
Iceland—						
Unmanufactured ..	51	56	59	55	38	36
Manufactured ..	35	43	28	31	58	35
Italy—						
Unmanufactured ..	13,610	20,318	30,168	19,357	14,307	29,125
Manufactured (a) ..	1,354	1,697	1,823	1,996	2,474	4,041
Cement products (b) ..	89	380	334	290	300	589
Netherlands—						
Unmanufactured ..	11,278	15,694	20,783	12,478	17,433	21,381
Manufactured ..	2,803	2,524	2,578	2,378	2,453	(a) 3,358
Cement products ..	49,051	69,287	53,139	45,704	62,715	(b) 78,103
Norway—						
Unmanufactured ..	3,189	3,672	4,672	4,327	5,422	6,808
Manufactured ..	1,139	1,371	987	1,024	(a) 2,630	(a) 3,547
Cement products ..	2,542	2,686	7,815	8,506	(b) 5,929	(b) 7,932
Portugal—						
Unmanufactured ..	2,960	2,910	3,275	1,603	1,743	2,309
Manufactured ..	63	56	136	79	62	272
Spain—						
Unmanufactured ..	4,705	12,090	17,562	10,284	16,367	14,220
Manufactured ..	245	610	560	83	102	n.a.
Sweden—						
Unmanufactured ..	12,728	11,390	14,484	13,122	16,179	16,836
Manufactured ..	2,107	2,169	2,102	2,250	(a) 3,500	(a) 3,839
Cement products ..	n.a.	n.a.	n.a.	n.a.	14,333	16,786
Yugoslavia—						
Unmanufactured ..	3,132	1,344	3,819	4,619	4,407	8,589
Manufactured ..	309	252	323	384	647	659
Cement products ..	27	21	220	117	—	1
Algeria—						
Unmanufactured ..	3,986	3,026	4,396	2,554	3,757	6,091
Manufactured (a) ..	278	190	178	306	362	745
Cement products (b) ..	1,816	2,206	6,583	13,864	14,261	9,365
Angola—						
Unmanufactured ..	608	872	1,242	724	479	806
Manufactured ..	9	10	14	20	15	15
Congo Republic—						
Unmanufactured ..	2,128	1,196	2,855	1,938	1,028	n.a.
Manufactured (a) ..	168	346	185	126	112	n.a.
Cement products (b) ..	13,858	6,839	3,347	2,061	914	n.a.
Egypt—						
Unmanufactured ..	2,515	7,226	3,598	4,523	3,527	6,479
Manufactured ..	441	1,203	494	762	999	963
Malagasy Republic—						
Manufactured (a) ..	99	97	121	81	125	110
Cement products ..	2,150	1,387	945	2,707	943	558

(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	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES (cont.)						
Morocco—						
Unmanufactured ..	1,062	973	1,056	1,670	1,016	2,634
Manufactured (a) ..	112	123	65	131	141	146
Cement products ..	4,307	1,319	560	255	203	234
Mozambique—						
Unmanufactured ..	715	1,282	805	1,264	446	709
Manufactured ..	14	21	28	22	17	33
Sudan—						
Manufactured ..	2,022	4,626	5,037	3,044	2,327	6,199
Costa Rica—						
Manufactured ..	224	52	38	41	83	58
Guatemala—						
Unmanufactured ..	284	289	449	498	n.a.	n.a.
Manufactured ..	67	204	105	79	n.a.	n.a.
Mexico—						
Unmanufactured ..	7,334	10,387	9,293	10,187	8,301	13,208
Manufactured ..	905	698	1,343	791	1,236	860
Netherlands Antilles—						
Manufactured ..	372	939	827	487	562	370
Cement sheets ..	2,070	2,828	2,541	2,532	2,839	1,947
Nicaragua—						
Manufactured ..	209	116	111	58	17	31
Panama Republic—						
Manufactured ..	1,010	990	1,741	2,243	1,590	1,764
Salvador—						
Unmanufactured ..	361	284	294	343	460	223
Manufactured ..	79	74	81	117	101	79
United States—						
Unmanufactured—						
Crude ..	36,293	49,321	49,518	50,819	49,513	42,954
Mill fibre ..	150,136	139,887	122,617	120,865	135,427	133,234
Other ..	474,663	426,783	437,447	403,612	451,709	421,575
Manufactured ..	16,307	26,831	19,859	12,104	29,450	40,439
Argentina—						
Manufactured ..	11,751	5,577	9,437	9,193	8,125	11,565
Brazil—						
Unmanufactured ..	7,493	10,526	10,394	11,159	10,823	13,453
Manufactured ..	1,050	946	706	692	675	817
Chile—						
Manufactured ..	4,243	4,372	3,916	r 2,802	4,740	n.a.
Colombia—						
Unmanufactured ..	8,668	6,097	6,553	5,019	6,376	6,728
Manufactured ..	504	955	719	596	591	904
Ecuador—						
Unmanufactured ..	15	25	10	—	147	n.a.
Manufactured ..	63	37	202	346	660	n.a.
Peru—						
Unmanufactured ..	1,849	1,623	2,259	1,971	1,711	1,784
Manufactured ..	400	217	253	371	245	297
Surinam—						
Unmanufactured ..	7	—	—	—	—	—
Manufactured ..	545	490	1,408	934	979	1,955
Uruguay ..	n.a.	n.a.	1,614	1,152	1,888	1,823
Venezuela—						
Unmanufactured ..	2,074	1,710	2,524	1,689	2,492	2,241
Manufactured ..	4,425	2,621	3,796	2,158	4,138	4,418
Burma—						
Cement products ..	11,279	5,985	12,711	7,785	446	394
Formosa—						
Unmanufactured ..	427	501	906	400	417	n.a.
Manufactured ..	531	370	524	204	262	n.a.

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

IMPORTS OF ASBESTOS (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Indonesia—						
Unmanufactured ..	163	68	179	224	703	579
Manufactured ..	385	498	460	403	186	447
Cement products ..	3,792	28,386	4,757	1,822	2,626	1,541
Iraq—						
Unmanufactured ..	56	485	1,095	91	<i>n.a.</i>	<i>n.a.</i>
Manufactured ..		1,386	424	247	<i>n.a.</i>	<i>n.a.</i>
Cement products ..	3,743	2,958	1,886	1,974	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Unmanufactured ..	20,078	32,861	48,712	38,126	52,836	75,838
Manufactured ..	504	748	386	397	223	149
Cement products ..	314	175	556	195	325	221
Lebanon—						
Unmanufactured ..	216	1,009	1,636	1,712	1,357	2,222
Manufactured ..	13	23	18	17	40	63
Cement products ..	1,420	1,154	1,055	906	325	844
Philippine Republic—						
Unmanufactured ..	225	1,033	766	332	945	1,216
Manufactured ..		363	365	522	933	621
Cement products ..	2,054	964	246	48	—	107
Syria—						
Cement sheets ..	1,544	1,129	782	2,582	1,774	2,151
Other manufactures ..	32	26	42	38	51	51
Thailand—						
Unmanufactured ..	—	45	3,551	3,426	2,215	6,331
Manufactured ..	5,670	1,210	120	93	568	211
Cement products ..	2,018	3,445	7,245	5,418	5,005	4,928
Turkey—						
Unmanufactured ..	31	492	—	960	890	463
Manufactured ..	668	457	172	159	701	1,313
Cement products ..	1,512	223	519	981	104	250

BARIUM MINERALS

PRODUCTION OF BARIUM MINERALS*

Long tons

Producing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Barytes and witherite,						
unground	49,452	54,121	55,140	45,610	38,283	40,571
do. ground	33,499	21,477	22,788	13,442	22,796	19,494
Canada	226,550	286,460	203,614	174,749	213,363	138,845
Southern Rhodesia	—	—	—	30	213	—
Swaziland	401	461	313	428	411	179
Union of South Africa ..	1,689	2,422	3,008	2,429	2,103	1,677
India	7,623	6,315	12,913	15,657	13,338	13,371
Australia	6,264	6,009	9,778	6,802	6,214	11,417
Irish Republic	5,565	6,901	10,028	7,800	8,176	(c) 8,700
OTHER COUNTRIES						
Austria	r 1,458	r 3,048	r 3,488	r 4,194	3,632	4,326
France	62,953	54,502	75,380	119,584	85,053	90,000
Germany (Federal)	400,940	405,212	400,129	365,272	382,414	462,194
Germany (East) (d)	25,000	25,000	25,000	25,000	25,000	25,000
Greece	19,153	25,753	128,169	151,455	127,691	n.a.
Italy	102,353	92,031	111,558	109,800	97,400	114,348
Poland	10,334	11,023	(d) 11,000	(d) 11,000	(d) 11,000	(d) 11,000
Portugal	319	309	762	1,207	3,357	3,848
Spain	8,779	7,594	18,113	28,043	25,166	25,532
Sweden (a)	122	—	—	—	—	—
U.S.S.R. (d)	98,000	98,000	98,000	120,000	120,000	120,000
Yugoslavia (b)	84,224	78,449	88,189	76,082	113,010	101,794
Algeria	30,107	29,324	48,477	r 60,635	21,463	37,456
Egypt	60	79	262	2,037	1,801	(d) 2,000
Morocco	r 24,259	29,127	14,532	42,018	36,227	82,986
Cuba (b)	—	—	20,354	10,653	n.a.	n.a.
Mexico (b)	105,048	210,529	383,516	194,063	177,303	156,083
United States	994,747	1,207,065	1,164,770	434,185	774,287	688,364
Argentina	20,072	17,100	22,557	16,604	(d) 16,700	(d) 16,700
Brazil	3,526	14,462	49,419	59,308	50,009	n.a.
Chile	3,094	425	768	n.a.	n.a.	n.a.
Colombia	6,000	7,500	6,214	13,000	10,000	7,200
Peru	8,402	50,116	85,168	105,306	94,247	107,869
Burma	—	—	—	810	1,000	1,600
Japan	18,191	18,373	24,566	14,741	19,045	22,461
Korea (South)	833	647	7	—	—	200
Philippine Republic	—	4,504	5,436	57	166	5,534
Turkey	—	—	1,885	5,389	2,700	n.a.
TOTAL †	2,360,000	2,780,000	3,100,000	2,200,000	2,500,000	2,500,000

*Barytes unless otherwise stated.

†Excluding barytes known to have been produced in Bulgaria, 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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ground barytes ..	212	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Barium compounds, excluding blanc fixe ..	3,263	3,044	3,618	2,419	4,295	4,487
Canada—						
Barytes	217,920	278,820	178,379	154,412	197,965	120,511
India—						
Unground barytes ..	2,573	6,702	13,848	23,120	13,008	(b) 19,775
Australia (a)—						
Ground barytes and Sulphate incl. blanc fixe	1,617	1,016	1,140	3,843	2,921	4,565
Irish Republic—						
Unground barytes ..	9,015	9,680	9,157	9,812	8,425	9,675
OTHER COUNTRIES						
Austria—						
Barytes	3	—	15	2	—	25
Belgium-Luxemburg E.U.—						
Barytes and witherite ..	1,674	1,370	1,195	223	1	} 33
Barytes, ground ..	29	6	12	24	3	
Sulphate	1,255	636	334	339	745	
Carbonate	160	180	26	12	—	
Chloride	19	40	54	1	4	6
France—						
Barytes	13,257	5,026	18,339	29,371	18,857	21,788
Witherite	38	90	—	30	—	—
Chloride	2,575	4,217	4,780	4,153	5,613	5,783
Carbonate	2,909	1,799	2,069	1,244	1,673	2,232
Sulphate	144	74	1,635	626	150	410
Sulphide	6	6	12	11	7	63
Germany (Federal)—						
Barytes and witherite ..	123,481	116,823	104,671	121,184	117,937	134,083
Carbonate	8,612	7,593	6,402	7,528	11,722	14,782
Chloride	5,092	4,598	4,133	3,635	4,797	3,627
Sulphate	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	15,167	15,858
Greece—						
Barytes	19,943	35,769	47,143	97,448	110,515	108,094
Italy—						
Barytes	27,926	30,085	39,179	41,613	34,536	33,095
Witherite	6	15	—	500	63	3
Carbonate	54	40	70	103	41	816
Chloride	417	461	307	194	487	1,014
Sulphate	14	13	—	11	181	344
Sulphide	103	186	26	31	69	<i>n.a.</i>
Netherlands—						
Barytes, ground ..	5	393	82	1	102	87
Sulphate	612	903	586	1,919	1,920	2,141
Sulphide	5,503	3,979	3,801	3,181	3,222	3,408
Sweden—						
Barytes and witherite ..	—	39	18	38	—	3
U.S.S.R.—						
Barytes	18,000	35,900	—	—	—	—
Yugoslavia—						
Unground barytes ..	82,898	71,108	77,434	64,987	100,358	89,127
Ground barytes ..	1,326	7,341	10,755	11,095	12,652	12,667

*For Lithopone, see "Zinc".

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

EXPORTS OF BARIUM MINERALS, ETC. (cont.)

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES (cont.)						
Algeria—						
Barytes	15,795	19,041	21,815	11,802	3,167	3,101
Sulphate	—	—	30	428	98	—
Morocco—						
Barytes	13,707	21,751	17,208	20,450	24,355	55,401
Tunisia—						
Barytes	—	49	—	—	—	—
Cuba—						
Barytes	—	—	20,354	10,653	n.a.	n.a.
Mexico—						
Barytes	105,048	210,529	383,516	194,063	177,303	156,083
Argentina—						
Barytes	n.a.	n.a.	n.a.	n.a.	1,545	866
Brazil—						
Barytes	4,527	14,623	21,210	59,606	46,308	47,047
Peru—						
Barytes	19,026	48,584	118,961	77,561	105,586	102,810
Japan—						
Barytes	—	—	123	—	—	—
Chloride	6	2	7	—	1	5
Sulphate	9	179	166	95	62	41
Korea (South)—						
Barytes	n.a.	n.a.	n.a.	251	1,008	366

IMPORTS OF BARIUM MINERALS, ETC.*

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Unground barytes ..	50,133	31,400	27,076	32,111	19,054	27,764
Ground barytes ..	21,793	18,999	18,608	17,822	17,769	18,165
Barium compounds, excluding blanc fixe ..	3,322	3,021	2,459	2,507	<i>n.a.</i>	<i>n.a.</i>
Union of South Africa—						
Barytes ..	522	848	672	662	540	798
Barium Compounds ..	150	227	305	239	297	381
Canada—						
Barytes ..	1,294	1,317	1,635	1,234	1,484	1,804
Blanc fixe ..	535	400	332	400	905	1,076
British West Indies—						
Trinidad and Tobago—						
Barytes ..	26,621	35,622	19,370	36,207	33,647	27,218
India—						
Barytes ..	107	29	68	66	18	(a) 5
Carbonate ..	<i>n.a.</i>	<i>n.a.</i>	175	206	488	(a) 646
Chloride ..	<i>n.a.</i>	<i>n.a.</i>	238	357	483	(a) 204
Sulphate ..	<i>n.a.</i>	<i>n.a.</i>	171	67	105	(a) 150
Pakistan—						
Barytes ..	(a) 99	3,329	5,585	7,645	1,748	3,744
Australia (b)—						
Barytes ground ..	231	285	102	137	503	151
Carbonate ..	218	273	118	170	186	283
Chloride ..	188	196	158	146	171	160
Sulphate incl. blanc fixe ..	266	518	534	490	421	520
Other compounds ..	40	70	91	86	92	126
New Zealand—						
Barytes ..	901	776	886	2,135	1,199	3,990
OTHER COUNTRIES						
Austria—						
Barytes ..	7,304	7,343	5,418	5,627	7,259	9,006
Carbonate ..	340	214	190	346	384	503
Chloride ..	125	148	145	79	89	252
Sulphate ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	334	395
Belgium-Luxemburg						
E.U.—						
Barytes and witherite ..	21,269	17,470	14,133	20,698	14,432	} 34,015
Barytes, ground ..	6,039	5,739	7,556	6,205	6,298	
Sulphate ..	1,127	1,524	1,752	1,452	1,477	
Carbonate ..	2,716	1,904	2,079	1,575	1,955	
Chloride ..	1,587	2,307	2,357	1,782	1,887	
Sulphide ..	2,934	2,950	3,757	3,168	3,178	3,379
Denmark—						
Barytes ..	57	41	1,020	922	685	841
Carbonate ..	203	226	165	332	306	453
Chloride ..	170	215	142	211	172	157
Sulphate ..	1,076	983	1,166	1,094	539	436
Finland—						
Barytes ..	876	420	165	345	351	} 349
Witherite ..	5	15	—	—	—	
Chloride ..	9	114	145	130	73	
Carbonate ..	31	66	116	51	110	
Sulphate ..	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	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
France—						
Barytes	40,577	36,372	25,891	43,592	62,608	54,605
Witherite	326	615	—	—	—	89
Chloride	21	1	—	—	—	11
Carbonate	—	—	—	12	—	—
Sulphate	801	1,422	954	574	611	720
Germany (Federal)—						
Barytes and witherite ..	14,458	16,276	23,745	27,175	7,945	14,644
Carbonate	—	—	—	—	763	1,543
Chloride	—	—	256	2	372	158
Greece—						
Sulphate	148	128	141	150	115	<i>n.a.</i>
Iceland—						
Sulphate	4	12	7	2	9	12
Italy—						
Barytes	561	25	39	27	14	299
Witherite	971	498	972	—	1,937	9,621
Carbonate	467	401	262	253	159	262
Chloride	75	101	45	88	52	56
Sulphate	580	670	716	677	522	518
Sulphide	423	247	—	—	1	<i>n.a.</i>
Netherlands—						
Barytes and witherite ..	23,380	26,726	22,970	25,166	19,113	} 36,322
Barytes, ground	4,874	4,350	5,040	3,567	4,083	
Carbonate	1,909	1,614	2,053	3,028	3,667	
Chloride	240	241	451	261	314	
Sulphate	2,324	1,310	1,355	611	854	1,326
Portugal—						
Barytes	120	101	127	224	174	59
Chloride	113	73	81	16	26	95
Sulphate	34	12	19	17	25	182
Sweden—						
Barytes and witherite ..	2,673	2,908	3,331	2,835	1,989	2,861
Sulphate	1,750	1,642	1,695	1,584	1,919	2,520
Carbonate and chloride ..	1,316	1,069	912	759	1,464	2,275
U.S.S.R.—						
Barytes	20,500	13,500	21,000	23,400	32,300	59,500
Algeria—						
Barytes	89	—	—	6,238	4,230	12,261
Sulphate	—	1	957	10	1	18
Carbonate	254	281	181	14	4	2
Congo Republic—						
Barytes and witherite ..	10	—	33	1	45	<i>n.a.</i>
Chloride	2	5	2	2	92	<i>n.a.</i>
Sulphate	316	271	453	233	608	<i>n.a.</i>
Malagasy Republic—						
Barytes and witherite ..	<i>n.a.</i>	<i>n.a.</i>	393	291	25	49
Morocco—						
Barytes	670	952	926	278	10	8
Tunisia—						
Barytes	375	177	914	624	1,084	374
Sulphate	—	18	98	4	—	<i>n.a.</i>
Cuba—						
Sulphate	279	250	183	178	<i>n.a.</i>	<i>n.a.</i>
Mexico—						
Barytes	1,937	3,942	1,364	644	896	368
Carbonate	66	118	201	305	331	445
Chloride	<i>n.a.</i>	18	126	88	323	310
United States—						
Unground barytes	321,104	525,940	743,416	470,144	571,070	571,887
Ground barytes	263	329	378	902	1,467	41

IMPORTS OF BARIUM MINERALS, ETC. (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
United States <i>(cont.)</i> —						
Witherite	2,110	2,620	2,704	2,181	2,279	1,244
Carbonate	1,462	1,608	1,378	288	1,692	1,256
Chloride	887	1,230	1,256	1,229	1,348	897
Sulphate	804	916	1,292	1,405	1,569	1,454
Argentina—						
Sulphate	—	24	38	299	41	109
Barium compounds ..	165	236	378	64	176	255
Brazil—						
Carbonate	69	201	592	293	665	1,026
Chloride	86	57	151	192	364	363
Sulphate	223	426	557	177	379	457
Chile—						
Barytes	40	16	27	28	<i>n.a.</i>	<i>n.a.</i>
Carbonate	36	16	1	10	<i>n.a.</i>	<i>n.a.</i>
Chloride	1	—	2	1	<i>n.a.</i>	<i>n.a.</i>
Sulphate	3	5	3	2	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Barytes	—	3	2	1,614	1,620	440
Witherite	8	9	4	2	—	—
Carbonate	23	43	283	35	55	227
Chloride	34	1	19	2	15	57
Sulphate	1,031	2,004	32	2,225	2,685	451
Ecuador—						
Sulphate	<i>n.a.</i>	<i>n.a.</i>	230	499	359	<i>n.a.</i>
Peru—						
Carbonate	110	56	60	73	71	223
Sulphate	32	26	30	38	38	334
Uruguay—						
Sulphate	<i>n.a.</i>	<i>n.a.</i>	266	159	139	189
Venezuela—						
Barytes	39,779	45,391	75,452	67,303	56,941	17,910
Carbonate	—	11	133	21	56	45
Chloride	72	212	283	317	505	361
Sulphate	29	37	47	45	50	34
Iraq—						
Barytes	<i>n.a.</i>	16,628	28,150	12,149	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Barytes	2,174	4,368	6,508	2,540	10,714	18,212
Turkey—						
Barytes	33	41	2	—	319	971
Sulphate	—	26	16	15	76	19
Barium compounds ..	99	11	115	16	153	145

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

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Union of South Africa ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	—	2,609	3,421
Cyprus (a)	451	958	785	894	1,009	219
India	595	4,000	100	5,817	<i>n.a.</i>	<i>n.a.</i>
Australia—						
Bentonite	647	1,404	r 742	r 37	133	382
Bentonitic clay ..	138	63	r 187	r 116	152	17
New Zealand	718	1,638	1,573	1,801	2,149	2,165
OTHER COUNTRIES						
Austria	4,411	4,477	4,879	3,750	3,090	3,227
Greece	<i>n.a.</i>	4,000	10,143	17,000	20,000	<i>n.a.</i>
Italy	44,167	49,891	r 38,626	49,905	86,106	<i>n.a.</i>
Spain	1,732	2,738	2,247	4,708	6,481	4,761
Yugoslavia	8,855	54	4,793	<i>n.a.</i>	7,675	<i>n.a.</i>
Morocco (Northern) ..	3,405	881	} 4,897	<i>n.a.</i>	22,025	<i>n.a.</i>
Morocco (Southern) ..	<i>n.a.</i>	<i>n.a.</i>				
United States (c) ..	1,321,612	1,402,330	1,295,417	1,153,048	1,225,255	1,132,857
Argentina	(b) 15,000	(b) 20,000	24,022	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Turkey	—	—	—	600	<i>n.a.</i>	<i>n.a.</i>

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

(a) Exports of bentonitic clay.

(b) Estimated.

(c) Sold or used by producers.

EXPORTS OF BENTONITE

Long tons

Exporting Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Cyprus (a)	451	958	785	894	1,009	219
India	<i>n.a.</i>	<i>n.a.</i>	10	271	455	(b) 153
OTHER COUNTRIES						
Austria	909	566	595	421	2	74
France	288	437	1,441	2,370	3,673	3,790
Germany (Federal) ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,637	891	189
Italy	12,360	11,497	9,357	8,747	11,548	10,556
Yugoslavia	54	914	4,794	10,125	6,878	11,595
Algeria	17,560	26,960	31,118	36,150	26,014	27,650
Morocco	89	121	295	8,179	12,263	11,898
United States	<i>n.a.</i>	<i>n.a.</i>	66,000	40,000	42,192	51,867
Argentina	665	217	456	940	2,735	2,153

(a) Bentonitic clay.

(b) Years ended March 31 following that stated.

IMPORTS OF BENTONITE

Long tons

Importing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
India	<i>n.a.</i>	<i>n.a.</i>	79	24	45	(c) 133
Australia (a) (b) ..	4,858	5,432	4,668	5,476	4,944	6,474
OTHER COUNTRIES						
Austria	1,532	1,566	2,226	3,764	2,837	3,407
France	1,573	15,318	9,808	31,493	31,407	22,694
Germany (Federal) ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,782	1,934	3,053
Italy	5,446	5,792	6,088	5,109	6,196	4,784
Portugal	386	420	619	814	652	<i>n.a.</i>
Sweden	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	7,190	9,640
Algeria	—	53	777	5,461	7,841	6,063
Morocco	2	497	178	357	100	13
United States	710	417	119	49	828	197
Colombia	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,254	2,803
Ecuador	<i>n.a.</i>	<i>n.a.</i>	643	189	213	<i>n.a.</i>
Venezuela	10,025	<i>n.a.</i>	20,313	8,651	7,159	3,114

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

(b) Including bentonitic clay.

BERYL
PRODUCTION OF BERYL

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Kenya	—	—	5	4	2	1
Northern Rhodesia	19	12	5	11	2	2
Southern Rhodesia	860	541	511	296	393	481
South West Africa	421	405	345	220	152	369
Swaziland	—	—	—	—	2	5
Uganda	99	88	70	77	209	419
Union of South Africa	122	119	635	r 412	181	291
India (b)	754	3,000	1,121	536	—	893
Australia	206	318	395	247	317	198
OTHER COUNTRIES						
Portugal	301	218	170	46	36	29
Sweden	—	—	—	25	(b) 37	—
Congo Republic	323	1,701	1,582	994	416	n.a.
Malagasy Republic	282	151	265	r 161	423	626
Morocco	r 1	—	—	—	—	—
Mozambique	857	842	1,670	1,036	1,392	1,425
Somali Republic (a)	17	16	—	—	—	—
United States (c)	450	397	465	(d) 460	(d) 379	(d) 454
Argentina	1,330	1,537	1,402	896	576	659
Brazil	1,745	2,073	1,296	1,156	1,006	3,437
Afghanistan	29	27	13	—	—	10
TOTAL*	7,800	11,500	10,000	r 6,600	5,500	9,500'

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

(a) Exports. Former British Protectorate only.

(b) Imports into the United States.

(c) Shipments from mine.

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

EXPORTS OF BERYL

Long tons

Exporting Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Rhodesia & Nyasaland ..	815	610	457	288	272	533
South West Africa ..	355	354	278	259	99	89
Uganda	136	96	73	74	171	382
Union of South Africa ..	113	195	478	382	95	217
India (a)	754	3,000	1,121	536	—	893
Australia	210	309	397	146	—	148
OTHER COUNTRIES						
Portugal	277	233	156	52	79	29
Congo Republic ..	<i>n.a.</i>	<i>n.a.</i>	400	1,257	446	412
Malagasy Republic ..	151	229	786	112	232	607
Morocco	18	11	—	10	—	—
Mozambique	705	860	1,330	1,001	1,496 (a)	1,513
Somali Republic (b) ..	17	16	—	—	—	—
Argentina	394	2,091	1,497	527	2,978	1,033
Brazil	1,527	1,912	2,212	1,401	2,613	3,417

(a) Imports into the United States.

(b) Former British Protectorate only.

IMPORTS OF BERYL*

Long tons

Importing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom (a) ..	232	441	909	295	255	382
OTHER COUNTRIES						
France	<i>n.a.</i>	76	1,119	1,080	545	861
United States	5,390	11,046	6,509	4,106	7,177	7,985

*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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
South West Africa—						
Ore	2	—	1	1	1	—
Uganda—						
Ore (<i>Bi content</i>) ..	1	—	1	7	7	2
Union of South Africa—						
Ore (<i>Bi content</i>) ..	—	—	19	1	—	—
Canada—						
Metal plus content of bullion and concentrates exported ..	119	128	143	184	149	207
Australia—						
Concentrates (<i>Bi content</i>)	—	—	—	1	—	—
OTHER COUNTRIES						
France—						
Mispickel (<i>Bi content</i>) ..	59	50	44	50	45	50
Spain—						
Ore (<i>Bi content</i>) ..	29	66	93	50	27	15
Sweden—						
Metal (<i>c</i>)	65	39	54	r 49	27	36
Yugoslavia—						
Metal	102	109	98	76	89	103
Mozambique—						
Ore (<i>Bi content</i>) ..	2	—	3	1	10	14
Mexico—						
Ore (<i>Bi content</i>) ..	346	621	348	187	235	268
Argentina—						
Concentrates (<i>Bi content</i>) (<i>a</i>) ..	9	9	21	26	60	n.a.
Bolivia (<i>b</i>)—						
Ore, etc. (<i>Bi content</i>) ..	50	33	40	109	220	180
Peru—						
Concentrates (<i>Bi content</i>)	—	1	10	9	} 346	} 412
Lead bars (<i>Bi content</i>) ..	163	130	92	131		
Metal	165	152	257	240		
Korea (South)—						
Ore (<i>Bi content</i>) ..	128	177	107	89	101	142

*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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Bismuth	330	529	328	323	407	380
Bismuth salts	140	144	173	170	173	199
Uganda—						
Ore (<i>Bi content</i>) ..	(2 <i>cwt.</i>)	—	—	(8 <i>cwt.</i>)	6	4
Union of South Africa—						
Ore	—	2	106	4	70	3
Canada—						
Bismuth	25	59	64	48	149	189
Australia (a)—						
Concentrates	1	—	—	—	—	—
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Bismuth	19	5	1	27	63	51
France—						
Bismuth and alloys including scrap ..	25	59	64	34	58	54
Bismuth nitrate	19	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Germany (Federal)—						
Bismuth	14	74	81	158	205	152
Netherlands—						
Bismuth salts	<i>n.a.</i>	<i>n.a.</i>	15	15	21	16
Spain—						
Bismuth	—	11	48	35	25	<i>n.a.</i>
Yugoslavia—						
Bismuth	94	107	90	67	67	78
Mexico—						
Bismuth, refined ..	109	105	124	139	95	90
do. impure bars ..	232	588	231	134	198	198
United States—						
Matte, residues, etc. ..	49	5	51	16	89	—
Metal and alloys ..	91	128	71	141	80	70
Argentina—						
Ore	—	6	22	15	48	—
Bolivia—						
Ore, etc. (<i>Bi content</i>) ..	50	33	40	109	218	180
Peru—						
Bars, etc. (<i>Bi content</i>) ..	309	297	338	346	277	339
Japan—						
Bismuth	—	9	1	—	—	10
Korea (South)—						
Bismuth, unwrought ..	102	158	131	100	73	57

(a) Years ended June 30 of that stated.

IMPORTS OF BISMUTH, ETC.

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Bismuth.. ..	239	323	424	407	455	474
Unwrought alloys (b) ..	349	564	278	128	123	124
Canada—						
Bismuth.. ..	3	11	r 4	6	6	3
Bismuth salts	(£7,927)	(£7,807)	(£9,231)	(£7,524)	5	4
India—						
Bismuth and alloys ..	n.a.	n.a.	19	42	49	(d) 38
Australia (c)—						
Bismuth.. ..	16	16	19	16	17	16
Bismuth salts	9	6	4	6	12	10
New Zealand—						
Bismuth and its salts ..	6	3	3	3	4	2
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Bismuth.. ..	3	6	1	4	22	26
Bismuth salts	44	63	46	63	62	77
Denmark—						
Bismuth salts	10	14	10	11	n.a.	n.a.
France—						
Bismuth and alloys including scrap ..	259	306	314	311	445	515
Germany (Federal)—						
Bismuth.. ..	126	120	215	237	249	212
Italy—						
Bismuth.. ..	28	26	18	17	27	38
Bismuth salts	9	8	3	4	2	n.a.
Netherlands—						
Bismuth salts	15	13	39	54	67	84
Spain—						
Bismuth.. ..	1	1	—	—	1	n.a.
Bismuth salts	—	—	3	—	1	n.a.
Morocco—						
Bismuth salts	3	6	7	8	7	14
Mexico—						
Bismuth salts	3	8	7	6	5	8
United States—						
Bismuth.. ..	270	413	374	336	193	515
Argentina—						
Bismuth and its salts ..	35	14	2	1	1	2
Brazil—						
Bismuth.. ..	—	2	2	1	2	3
Bismuth salts	13	14	12	8	9	23
Chile—						
Bismuth.. ..	2	—	4	2	n.a.	n.a.
Colombia—						
Bismuth salts	5	4	4	5	5	8
Peru—						
Bismuth salts	1	1	1	1	1	—
Iran (a)—						
Bismuth salts	n.a.	1	2	n.a.	n.a.	n.a.
Japan—						
Bismuth.. ..	—	—	—	—	—	8
Turkey—						
Bismuth salts	15	8	4	1	8	3

(a) Years ended March 20 following that stated. (d) Years ended March 31 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	1955	1956	1957	1958	1959	1960
Italy— Boric acid	3,631	3,633	3,489	3,405	2,450	2,181
United States (a)— Borates	465,971	486,319	483,146	471,615	553,523	571,956
Argentina— Borates	13,000	20,000	21,429	20,445	10,479	<i>n.a.</i>
Chile— Boron minerals ..	<i>n.a.</i>	9,037	5,696	8,296	5,665	1,477
Turkey— Borates	41,520	32,948	26,946	68,306	78,985	68,736

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

(a) Sold or used by producers.

EXPORTS OF BORATES

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Borax	1,588	595	270	802	1,149	935
Hong Kong—						
Borax	—	1	11	36	95	21
India—						
Borax	—	—	—	1	1	(d) —
OTHER COUNTRIES						
Austria—						
Boric acid	3	1	3	1	4	—
Perborate of sodium ..	1,446	2,417	2,746	<i>n.a.</i>	2,587	<i>n.a.</i>
Belgium-Luxemburg						
E.U.—						
Borax	1,227	1,067	669	199	14	33
Boric acid	130	19	4	5	4	8
Borates and perborates	38	14	119	20	666	1,370
France—						
Borax, refined	663	614	604	591	1,241	3,878
Boric acid	158	136	158	115	178	658
Borates and perborates	77	44	1,697	392	969	911
Germany (Federal)—						
Borates	2,261	1,325	456	(b) 129	(b) 354	(b) 161
Boric acid	312	307	206	156	173	107
Perborate of sodium ..	11,128	11,107	11,192	(c) 9,171	(c) 9,132	(c) 8,522
Italy—						
Boric acid crude	40	—	1	—	3	} 1,731
do. refined	238	444	634	1,451	677	
Borax, refined	921	1,912	3,065	4,093	2,080	1,150
Perborates	1	3	—	575	355	974
Netherlands—						
Borax	673	351	406	359	425	202
Sweden—						
Borax and boric acid ..	1	—	—	—	—	—
Perborate of sodium ..	110	59	52	79	157	47
Switzerland—						
Borax	51	20	—	—	—	—
United States—						
Borax, borates and boric acid	198,739	217,612	191,515	210,343	226,494	268,398
Argentina—						
Borates of calcium and sodium	—	—	3,689	3,030	2,006	981
Japan—						
Borax	813	2	5	2	2	5
Boric acid	599	20	11	3	53	21
Turkey—						
Borates	30,906	(a) 17,500	21,646	50,452	60,525	60,552

(a) Estimated.

(d) Years ended March 31 following that stated.

(b) Borax only.

(c) Including other borates and perborates.

IMPORTS OF BORATES

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Boron minerals	15,779	15,852	15,883	14,889	21,967	23,762
Borax, crude	70	35	—	—	—	—
do. refined	23,487	23,250	25,724	23,708	25,616	28,699
Boric acid	5,426	3,079	2,975	3,472	3,645	6,799
Rhodesia & Nyasaland—						
Borax	45	64	76	121	117	134
Boric acid	7	4	5	3	12	12
Union of South Africa—						
Borax	974	1,202	1,440	1,188	1,320	1,194
Boric acid	247	224	261	177	172	293
Canada—						
Borax	8,413	9,248	9,182	9,077	8,999	8,942
Boric acid	1,348	1,663	1,420	1,457	2,017	2,082
Hong Kong—						
Borax, refined	4,232	5,811	2,182	3,149	3,753	3,147
India—						
Borax	3,050	4,329	3,935	4,881	5,731	(b) 4,974
Boric acid	<i>n.a.</i>	<i>n.a.</i>	875	303	717	(b) 1,042
Pakistan—						
Borax	(b) 742	516	267	7	651	644
Australia (a)—						
Boron minerals	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	783
Boron salts	3,228	3,171	2,545	2,519	3,495	3,940
Boric acid	817	985	1,150	1,049	1,080	1,427
New Zealand—						
Borax, crude	896	862	1,101	894	752	700
Boric acid	268	213	623	230	248	301
Irish Republic—						
Borax	605	845	1,299	933	779	914
OTHER COUNTRIES						
Austria—						
Borax, crude	3,620	3,899	3,483	3,552	4,259	3,047
do. refined	3	1	4	—	3	2
Boric acid	1	6	6	6	2	1
Perborate of sodium	1	—	1	<i>n.a.</i>	4	6
Belgium-Luxemburg						
E.U.—						
Borax	1,579	1,456	1,572	1,719	3,464	3,878
Boric acid	591	410	312	257	297	1,039
Borates and perborates	2,747	3,400	4,260	4,136	2,662	2,623
Denmark—						
Boron minerals	542	343	879	437	723	706
Borax	48	63	60	87	96	110
Boric acid	76	93	112	91	92	78
Borates and perborates	1,102	1,419	1,492	1,428	1,785	1,931
Finland—						
Borax	479	1,026	315	773	1,243	1,026
Boric acid	63	112	93	111	81	172

(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	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES (cont.)						
France—						
Boron minerals ..	16,969	18,082	13,798	21,492	20,096	25,721
Borax refined ..	7,262	9,951	10,537	11,574	10,472	13,400
Boric acid ..	218	1,184	761	2,767	745	1,521
Borates and perborates	642	821	625	502	568	559
Germany (Federal)—						
Boron minerals ..	30,434	30,977	25,622	32,318	26,810	39,874
Boric acid ..	4,600	4,891	4,615	4,356	5,399	7,363
Borates ..	7,868	9,016	8,819	(a) 9,434	(a) 11,704	(a) 13,228
Perborate of sodium ..	274	412	350	(b) 1	(b) 74	(b) 42
Greece—						
Borax ..	51	106	74	8	54	n.a.
Boric acid ..	11	19	9	5	22	n.a.
Italy—						
Boron minerals ..	11,986	15,901	10,059	11,925	18,961	28,335
Borax, refined ..	1,314	2,050	1,797	2,742	2,650	3,603
Borates ..	—	30	—	2	5	1
Perborates ..	285	554	1,009	—	99	—
Netherlands—						
Borax ..	8,816	8,380	10,028	8,405	11,653	11,320
Boric acid ..	804	712	793	850	1,160	934
Perborates ..	983	839	852	887	1,147	2,213
Norway—						
Borax ..	847	1,193	1,317	1,481	1,265	1,552
Boric acid ..	362	1,415	1,492	1,824	48	629
Perborate of sodium ..	n.a.	n.a.	n.a.	n.a.	1,425	1,464
Portugal—						
Boric acid ..	71	159	190	212	75	123
Borax ..	1,076	830	760	1,090	821	1,056
Spain—						
Boric acid ..	8	2	5	20	—	n.a.
Borates ..	—	6	34	—	—	n.a.
Sweden—						
Borax ..	2,394	3,018	2,887	2,499	2,696	2,134
Boric acid ..	274	317	283	199	344	281
Perborate of sodium ..	1,770	1,666	1,622	3,586	1,027	2,416
Switzerland—						
Borax ..	4,073	3,313	4,364	3,770	2,595	(c) 373
Yugoslavia—						
Boric acid ..	29	34	19	1,088	94	179
Algeria—						
Borax ..	121	48	100	166	83	96
Boric acid ..	35	7	8	13	11	7
Angola—						
Borax ..	7	6	8	20	23	17
Congo Republic—						
Boric acid ..	1	64	5	5	9	n.a.
Borax ..	56	56	82	54	30	n.a.
Perborates ..	70	87	46	209	131	n.a.
Egypt—						
Borax ..	373	213	225	484	313	274
Boric acid ..	23	21	47	73	140	169
Morocco—						
Borax ..	101	60	50	113	108	95
Perborates ..	43	42	26	22	12	27
Mozambique—						
Borax ..	7	7	4	4	8	7
Boric acid ..	2	1	3	1	—	3
Tunisia—						
Borax etc. ..	24	1	2	2	29	43

(a) Borax only.

(c) Crude borax only.

(b) Including other borates and perborates.

IMPORTS OF BORATES (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Cuba—						
Borax	371	276	430	340	<i>n.a.</i>	<i>n.a.</i>
Boric acid	79	100	79	95	<i>n.a.</i>	<i>n.a.</i>
Mexico—						
Borax	<i>n.a.</i>	2,806	3,262	3,595	4,209	4,638
Boric acid	<i>n.a.</i>	624	506	432	535	744
Brazil—						
Boron minerals	854	1,813	1,352	1,410	1,110	694
Boric acid	162	761	975	575	686	386
Borax	886	4,518	1,612	2,462	3,848	3,440
Borates	195	16	71	15	11	4
Chile—						
Borax	—	6	—	—	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Borax	498	484	435	249	217	370
Boric acid	125	169	235	137	148	189
Perborate of sodium	69	25	51	46	82	108
Ecuador—						
Borax	10	8	9	8	32	<i>n.a.</i>
Boric acid	7	6	10	10	8	<i>n.a.</i>
Peru—						
Borax	237	338	330	355	438	435
Boric acid	46	80	60	77	110	113
Uruguay—						
Borates	<i>n.a.</i>	<i>n.a.</i>	283	165	408	407
Venezuela—						
Borax	141	405	155	168	211	196
Boric acid	41	100	90	67	105	74
Iran (a)—						
Borax	<i>n.a.</i>	403	155	221	<i>n.a.</i>	<i>n.a.</i>
Boric acid	<i>n.a.</i>	5	8	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Borax	10,566	10,773	7,919	10,545	13,249	14,739
Boric acid	2,216	1,909	2,250	2,455	4,715	4,943
Korea (South)—						
Borax	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	139	189	367
Philippine Republic—						
Boric acid	45	33	99	87	93	49
Syria—						
Borax	39	39	37	94	50	<i>n.a.</i>
Boric acid	19	7	3	4	2	<i>n.a.</i>
Thailand—						
Borax	20	<i>n.a.</i>	118	702	445	300
Boric acid	1	15	41	25	22	13
Turkey—						
Borax	89	158	46	88	251	278
Boric acid	10	33	5	12	3	31

(a) Years ended March 20 following that stated.

BROMINE
PRODUCTION OF BROMINE

Lb. avdp.

Producing Country	1955	1956	1957	1958	1959	1960
France (a)	2,778,000	2,831,000	3,280,000	3,549,000	3,770,000	4,430,000
Italy	1,105,779	1,117,644	1,549,534	1,211,892	1,574,308	n.a.
Spain	169,055	316,815	478,659	n.a.	n.a.	n.a.
United States (a) (b) ..	184,453,846	196,730,115	191,971,145	176,397,000	195,483,000	175,010,000
Israel	—	n.a.	(c)1,075,000	1,687,000	4,000,000	6,200,000
Japan	2,950,000	2,751,000	2,529,000	3,296,000	3,474,000	4,301,000

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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Bromine	25,300	n.a.	n.a.	n.a.	n.a.	n.a.
Bromides	569,600	537,500	533,300	376,000	481,000	585,000
OTHER COUNTRIES						
Belgium-†Luxemburg						
E.U.—						
Bromine	—	—	—	4,400	—	—
Bromides, etc.	7,275	4,630	7,716	4,600	1,500	(b) 900
France—						
Bromine	854,071	176,590	357,369	347,200	901,000	1,303,200
Bromides	1,118,625	1,078,942	1,099,886	1,455,100	1,901,500	2,289,100
Germany (Federal)—						
Bromine	275,798	227,297	650,364	n.a.	n.a.	n.a.
Bromides	188,054	171,740	113,097	159,200	152,100	194,900
Italy—						
Bromine	507	7,271	3,527	—	—	59,500
Bromides	37,992	9,017	441	3,298	3,748	440
Netherlands—						
Bromides, etc.	255,736	275,578	429,901	798,000	1,082,000	n.a.
United States—						
Bromine and compounds (a) ..	3,649,861	6,111,363	10,510,719	10,071,033	9,171,539	10,241,178
Israel—						
Bromine	—	—	961,000	1,687,000	2,209,000	n.a.
Japan—						
Bromine	n.a.	247	2,180	3,221	68	534
Bromine compounds	17,571	63,090	33,711	44,000	33,281	31,268

(a) Including organic compounds.

(b) Bromides of potash and soda only.

IMPORTS OF BROMINE, ETC.

Lb. avdp.

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Bromine	278,000	56,000	407,680	672,000	<i>n.a.</i>	<i>n.a.</i>
Union of South Africa—						
Bromine	1,064	1,295	1,879	899	1,407	6,461
Canada—						
Bromine	31,686	26,462	19,065	17,397	66,434	70,301
Bromide of soda ..	36,587	55,579	51,933	79,806	87,918	67,353
India—						
Bromine	<i>n.a.</i>	<i>n.a.</i>	5,500	900	—	(<i>b</i>) 73
Bromide of potash ..	<i>n.a.</i>	<i>n.a.</i>	38,000	6,400	220	(<i>b</i>) —
Bromide of soda ..	<i>n.a.</i>	<i>n.a.</i>	1,600	2,100	—	(<i>b</i>) —
Australia (<i>a</i>)—						
Bromine	(£194)	(£186)	(£186)	(£491)	(£412)	—
Bromate and bromide of potash	101,299	133,930	120,089	118,648	69,678	165,198
do. do. other	125,886	71,565	83,797	44,509	35,211	91,219
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Bromine	11,464	14,771	33,731	20,300	30,200	18,300
Bromides, etc. ..	438,058	541,235	574,745	661,200	534,800	(<i>c</i>) 496,500
Denmark—						
Bromide of potash ..	26,015	10,582	9,921	14,300	12,300	24,000
Bromide of soda ..	45,636	26,015	45,856	58,900	82,500	88,000
Other bromides ..	12,566	53,793	42,549	45,000	<i>n.a.</i>	<i>n.a.</i>
France—						
Bromides	2,425	220	11,684	400	2,600	1,100
Germany (Federal)—						
Bromine	24,251	5,732	329,591	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Bromides	48,061	19,842	31,306	149,900	90,600	25,100
Greece—						
Bromine	3,045	2,335	1,803	842	717	<i>n.a.</i>
Italy—						
Bromine	163,980	220,477	76,942	110,700	311,407	698,600
Bromides	35,450	22,392	33,070	4,561	25,108	33,500
Netherlands—						
Bromine	149,914	227,076	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Bromides, etc. ..	359,353	233,690	288,806	335,000	423,000	(<i>c</i>) 344,000
Norway—						
Bromine	933	1,351	2,915	1,691	1,768	2,000
Portugal—						
Bromine	1,069	604	1,411	653	589	<i>n.a.</i>
Bromide of soda ..	2,474	1,413	776	1,063	745	} 4,000
Bromide of potash ..	6,105	3,532	7,022	4,698	6,169	
Bromide of ammonium	756	384	88	697	646	
Spain—						
Bromides	10,637	8,902	5,578	6,662	2	<i>n.a.</i>
Sweden—						
Bromine	24,000	4,000	4,000	9,000	<i>n.a.</i>	7,000
Algeria—						
Bromine	—	—	3,527	—	200	—
Bromides	661	17,417	18,298	26,700	10,600	20,700
Congo Republic—						
Bromides	1,823	110,948	1,400	1,285	198	<i>n.a.</i>
Morocco—						
Bromides	48,517	9,017	11,627	9,830	6,934	4,672
Cuba—						
Bromine	3,239	562	30,377	6,788	<i>n.a.</i>	<i>n.a.</i>

 (*a*) Years ended June 30 of that stated. (*c*) Bromides of potash and soda only.

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

IMPORTS OF BROMINE, ETC. (cont.)

Lb. avdp.

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
(cont.)						
Mexico—						
Bromine	<i>n.a.</i>	157,968	323,462	130,139	85,085	151,841
Bromides of potash and soda	21,954	29,260	31,098	39,388	31,006	59,298
United States—						
Bromine and compounds	692	2,918	1,512	11,933	26,200	145,943
Argentina—						
Bromine and compounds	147,692	86,062	194,818	249,828	151,142	192,891
Brazil—						
Bromine	3,388	1,468	2,258	1,142	6,508	2,469
Bromides	22,701	207,810	70,592	133,073	311,418	779,923
Chile—						
Bromine	939	79	289	293	<i>n.a.</i>	<i>n.a.</i>
Bromides	2,850	734	963	2,704	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Bromine	—	1,243	1,151	146	60	—
Bromides, etc. ..	14,797	8,514	24,734	11,914	21,160	17,701
Peru—						
Bromine	225	265	362	163	478	604
Bromides	22,831	17,586	10,655	10,781	11,584	3,413
Iran (a)—						
Bromides	<i>n.a.</i>	13,302	13,444	6,195	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Bromine compounds ..	—	6,160	2,635	3,109	201	—
Philippine Republic—						
Bromide of potash ..	10,752	18,488	22,115	4,535	24,295	18,973
Thailand—						
Bromide of potash ..	1,345	5,483	3,818	20,704	20,386	17,245
Turkey—						
Bromine	545	176	4,023	40	1,188	2,015
Bromides	28,885	131,237	47,278	46,244	8,093	3,497

(a) Years ended March 20 following that stated.

CADMIUM
PRODUCTION OF CADMIUM

Long tons

Producing Country ..	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom ..	151	112	102	124	138	105
Northern Rhodesia ..	—	52	56	17	—	26
South West Africa (a) ..	626	1,039	1,268	1,200	578	773
Canada (b)	857	1,044	1,057	784	964	1,002
Australia	301	276	393	353	341	300
OTHER COUNTRIES						
Austria	—	2	11	11	20	15
Belgium (e)	640	664	600	960	1,200	900
France	177	107	173	172	240	250
Germany (Federal) ..	317	288	274	314	413	403
Italy	206	186	234	201	246	262
Netherlands (e) ..	15	16	34	40	40	40
Norway	114	124	109	107	127	108
Poland (g)	250	242	250	256	265	265
Spain	10	11	9	6	6	12
U.S.S.R. (g)	300	r 300	r 400	r 435	449	462
Yugoslavia	—	8	25	(g) 25	(g) 25	(g) 25
Congo Republic ..	163	273	407	482	467	497
Guatemala	—	48	37	23	—	55
Mexico (c)	1,275	845	747	758	565	1,023
United States—						
Metal	4,354	(d) 4,738	(d) 4,710	(d) 4,318	(d) 3,840	(d) 4,545
Compounds (metal content) ..	85	n.a.	n.a.	n.a.	n.a.	n.a.
Peru (f)	62	48	46	85	n.a.	n.a.
Japan	338	395	390	430	483	559
TOTAL*	8,300	9,000	9,500	9,000	9,000	10,000

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

- (a) Estimated cadmium content of copper-lead-zinc concentrates produced and exported for treatment.
- (b) Metal produced plus cadmium content of concentrates exported.
- (c) Including cadmium content of flue dust, etc., exported for treatment.
- (d) Including secondary. In 1955 secondary (metal and cadmium content of compounds) amounted to 128 long tons.
- (e) Estimate. Source: "Metallgesellschaft".
- (f) Including cadmium content of concentrates.
- (g) Estimate. Source: United States Bureau of Mines.

EXPORTS OF CADMIUM, ETC.

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Compounds	46	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Rhodesia & Nyasaland—						
Metal	—	17	48	35	6	5
South West Africa (b) ..	627	1,039	1,267	1,200	578	773
Canada	697	858	867	564	884	918
Australia (a)	162	162	182	252	141	120
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Metal	141	164	249	453	675	} 707
Scrap	—	1	2	4	4	
France—						
Cadmium (incl. scrap) ..	2	14	2	1	5	17
Cadmium salts	1	(d) 1	(d) 1	(d) 1	(d) —	(d) —
Germany (Federal)—						
Cadmium	109	95	57	57	83	106
Cadmium oxide	19	7	16	13	21	32
Italy—						
Cadmium (incl. scrap) ..	424	126	70	24	35	23
Cadmium salts	4	2	—	5	1	<i>n.a.</i>
Norway	(e) 74	(e) 128	(e) 89	(e) 70	133	91
U.S.S.R.	153	217	210	254	314	899
Congo Republic	138	168	443	425	576	(e) 500
Mexico (c)	1,275	730	746	695	468	1,094
United States—						
Metal, alloys, dross, flue dust, etc.	622	573	309	259	402	1,093
Peru	15	13	18	49	71	71
Japan	<i>n.a.</i>	152	116	114	57	4

(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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Metal	852	756	849	824	1,127	1,392
India—						
Cadmium	<i>n.a.</i>	<i>n.a.</i>	16	61	96	(c) 77
Australia (b)—						
Cadmium salts	1	2	1	1	2	—
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Metal	28	41	37	63	74	} 112
Scrap	—	1	15	10	2	
France—						
Cadmium	307	358	398	438	389	655
Cadmium salts	24	(a) 20	(a) 15	(a) 14	(a) 14	(a) 25
Germany (Federal)—						
Cadmium	382	604	472	521	630	942
Cadmium oxide	11	7	8	12	18	20
Italy—						
Cadmium	—	10	9	—	36	92
Cadmium sulphide	4	2	4	5	5	<i>n.a.</i>
Sweden	86	55	115	86	137	104
U.S.S.R.	300	300	300	300	300	300
Yugoslavia	7	7	6	4	2	1
Algeria	—	1	1	—	1	1
United States—						
Cadmium	414	1,391	708	447	731	420
Flue dust (cadmium content)	818	648	625	544	689	831
Argentina—						
Cadmium and salts	15	—	—	1	2	1
Brazil—						
Cadmium	8	13	4	28	30	16
Cadmium salts	1	4	1	—	—	—

(a) Sulphide only.

(c) Years ended March 31 following that stated.

(b) Years ended June 30 of that stated.

CEMENT
PRODUCTION OF CEMENT

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom	12,513,000	12,763,000	11,962,000	11,666,000	12,591,000	13,280,000
Kenya	128,634	183,596	202,630	238,315	311,739	339,857
Nigeria	—	—	n.a.	(d) 112,990	120,700	155,000
Northern Rhodesia	79,800	111,000	172,000	187,000	134,000	125,000
Nyasaland	—	—	n.a.	39,000	34,219	30,000
Southern Rhodesia	397,000	459,000	476,000	596,000	n.a.	n.a.
Uganda	49,234	58,957	85,434	104,447	80,332	71,056
Union of South Africa	2,299,562	2,431,511	2,485,416	2,678,635	2,605,000	2,662,000
Canada (a)	3,932,571	4,483,646	5,400,980	5,494,126	5,611,148	5,087,374
Jamaica	107,000	130,000	140,000	176,000	194,000	209,000
Trinidad	121,100	137,100	130,800	147,400	177,300	174,400
Ceylon	84,387	83,371	48,195	79,079	93,463	83,623
Cyprus	—	36,258	65,607	81,676	81,760	82,800
Hong Kong	114,687	118,807	102,679	149,966	139,820	147,620
India	4,487,000	4,929,000	5,602,000	6,068,000	6,825,000	7,720,000
Malaya	107,000	102,300	112,200	108,400	189,500	281,900
Pakistan	682,000	774,000	1,076,000	1,073,000	986,000	1,141,000
Australia	1,960,000	2,103,000	2,285,000	2,417,500	2,574,600	2,747,400
New Zealand	403,000	444,000	531,000	552,000	553,000	607,000
TOTAL	27,466,000	29,349,000	30,900,000	31,970,000	34,000,000	36,000,000
Irish Republic	661,160	700,576	516,336	425,438	618,462	(f) 560,000
OTHER COUNTRIES						
Albania	43,845	63,761	69,112	77,000	(c) 74,000	(c) 79,000
Austria	1,826,370	1,905,870	2,095,260	2,120,190	2,378,330	2,785,040
Belgium (b)	4,615,000	4,590,000	4,631,000	3,993,276	4,368,480	4,318,620
Bulgaria	799,000	845,000	866,000	919,000	1,410,000	1,560,000
Czechoslovakia	2,846,000	3,098,000	3,614,000	4,045,000	4,669,000	4,971,000
Denmark—						
Portland cement	1,160,339	1,083,826	1,046,285	951,000	1,214,073	} 1,411,000
Special cements	79,022	84,512	99,226	100,226	153,983	
Finland	1,024,100	944,400	930,500	910,800	1,151,400	1,232,915
France—						
Portland cement	7,332,979	7,644,900	7,629,554	9,061,905	} (e) 13,420,000	(e) 13,949,000
Portland blast furnace cements	2,230,748	2,234,663	2,798,109	3,026,101		
Slag cements	48,708	37,187	24,218	47,209		
Masonry cements	388,420	441,233	746,496	437,341		
Natural cements	144,370	124,824	196,438	355,324		
Special cements	361,882	814,096	1,039,310	664,491		
Germany (Federal)—						
Portland cement	13,392,000	13,694,000	13,489,000	13,794,000	16,338,000	17,779,000
Portland blast furnace cements	4,052,000	4,332,000	4,295,000	4,480,000	5,132,000	5,848,000
Special cements	452,000	579,000	733,000	810,000	1,022,000	885,000
Germany (East)	2,924,000	3,217,000	3,405,000	3,502,000	4,139,000	4,953,000
Greece	1,118,000	1,218,000	1,230,000	1,339,000	1,421,000	1,610,000
Hungary	1,157,000	508,000	968,000	1,276,000	1,410,402	1,546,278
Iceland	—	—	—	32,000	77,000	72,000
Italy	10,492,713	11,160,031	11,762,357	12,398,150	13,852,190	15,386,035
Luxemburg	155,000	160,000	187,000	192,509	188,977	206,395
Netherlands	1,084,000	1,236,000	1,229,000	1,344,000	1,574,400	1,769,100
Norway	787,245	880,891	1,000,953	1,014,939	1,112,784	1,151,068
Poland	3,753,000	3,971,000	4,425,000	4,978,000	5,233,000	6,491,000

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

(b) Excluding natural cement.

(c) United States Bureau of Mines' estimate.

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

(e) Excluding masonry cement.

(f) Estimated.

PRODUCTION OF CEMENT (cont.)

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES (cont.)						
Portugal	766,907	1,007,624	963,695	1,008,009	1,014,731	1,182,826
Roumania	1,905,118	2,064,920	2,317,390	2,531,043	2,805,000	3,006,000
Saar	278,000	324,000	345,000	288,000	307,000	(h)
Spain—						
Portland cement .. (f)	3,826,995	3,723,000	4,046,340	4,306,789	4,565,928	4,693,092
Natural cement	395,520	406,423	469,326	495,031	500,475	490,495
Other cements	(c)	213,130	369,954	428,662	523,108	390,417
Sweden—						
Portland cement	2,472,489	2,394,168	2,338,811	2,357,810	} 2,776,000	2,762,000
Other cements	36,953	61,396	72,749	112,263		
Switzerland	2,083,357	2,341,701	2,471,677	2,150,637	2,640,792	2,988,196
U.S.S.R.	22,129,000	24,465,000	28,440,000	32,780,000	38,171,000	44,761,000
Yugoslavia	1,552,000	1,530,000	1,952,000	1,936,000	2,185,000	2,360,000
Algeria	645,000	658,800	699,700	808,900	941,500	1,045,000
Angola	69,212	85,883	127,417	163,203	152,349	158,603
Canary Islands	—	—	1,678	5,493	49,389	68,239
Cameroun	5,000	13,000	11,000	11,000	(e) 11,000	(e) 11,000
Congo Republic	399,000	451,649	457,670	385,260	339,925	(g) 200,000
Egypt	1,349,000	1,330,000	1,443,000	1,489,000	1,748,000	1,820,000
Ethiopia (d)	21,500	26,500	22,100	31,000	25,000	28,000
Morocco (Northern) ..	41,427	—	n.a.	n.a.	n.a.	n.a.
Morocco (Southern) ..	701,900	572,000	428,400	396,200	493,300	570,700
Mozambique	134,979	149,049	164,609	177,604	209,996	n.a.
Senegal	127,078	143,184	156,000	147,000	168,000	165,100
Sudan	63,000	66,000	59,000	88,000	98,000	119,000
Tunisia	377,275	353,800	394,800	339,500	434,900	398,600
Cuba	417,200	409,100	655,000	r 710,000	653,000	n.a.
Dominican Republic ..	230,778	242,688	275,974	265,324	186,520	166,984
Guatemala (g)	78,000	78,000	92,000	120,000	93,000	96,000
Haiti	26,000	44,000	30,100	36,549	38,067	52,130
Honduras	—	—	—	—	10,000	31,000
Mexico	2,062,554	2,240,703	2,519,141	2,498,642	2,666,064	3,040,339
Nicaragua	28,356	41,175	42,358	39,293	36,919	31,787
Panama Republic	72,000	69,000	78,000	66,000	96,000	107,000
Salvador	56,268	69,988	86,740	85,788	81,763	84,970
United States (a)—						
Portland cement	49,929,600	53,116,400	50,092,600	52,282,600	56,918,800	53,547,900
Prepared masonry cement (b)	2,772,800	2,669,900	2,467,700	2,410,600	2,720,100	2,442,800
Natural, slag and hydraulic lime cements	158,000	189,300	106,000	87,300	73,500	95,300
Argentina	1,839,933	1,996,687	2,327,000	2,432,000	2,330,000	2,599,000
Bolivia	36,934	32,547	23,284	28,454	28,990	12,166
Brazil	2,727,583	3,240,870	3,340,000	3,730,000	3,780,000	4,374,000
Chile	549,000	759,000	714,000	r 715,000	823,000	815,000
Colombia	1,029,769	1,201,181	1,192,154	1,194,100	1,326,335	1,363,048
Ecuador	143,977	149,403	152,590	157,307	155,000	198,000
Paraguay	11,568	13,364	12,131	7,287	7,100	14,000
Peru	535,965	543,217	536,528	595,387	573,000	592,000
Uruguay	262,000	334,000	410,000	426,000	415,000	408,000
Venezuela	1,262,043	1,428,252	1,719,723	1,589,998	1,842,116	1,463,523
Afghanistan	—	—	—	—	33,000	34,000
Burma	59,056	37,900	34,838	30,021	35,630	44,194
China	4,432,000	6,292,000	6,750,000	9,200,000	12,500,000	e 15,700,000
Formosa	580,517	588,216	618,009	994,225	1,055,435	1,160,000
Indonesia	147,000	143,000	247,000	r 294,000	339,000	(e) 344,000

(a) Including Puerto Rico.

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

(c) Included with Portland cement.

(d) Years ended September 10 of that stated.

(e) United States Bureau of Mines' estimate.

(f) Including "other cements".

(g) Estimated.

(h) Included with Germany (Federal).

PRODUCTION OF CEMENT (cont.)

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Iran (c)	129,874	220,942	308,444	397,000	569,668	770,000
Iraq	(b) 380,202	(b) 514,915	(b) 658,833	(b) 650,120	(a) 600,000	786,836
Israel	653,068	603,157	707,000	701,681	768,644	793,000
Japan—						
Portland cement	9,917,000	12,149,000	} 14,940,000	14,748,000	16,996,000	22,183,000
Other cements	474,000	668,000				
Jordan	n.a.	78,003	105,478	114,081	104,763	162,206
Korea (South)	55,271	45,829	90,524	290,983	352,204	424,052
Korea (North)	354,000	587,000	881,000	1,244,000	1,896,000	2,249,000
Lebanon	445,623	479,827	551,427	498,510	731,698	840,254
Philippine Republic	402,299	439,248	502,959	633,177	715,677	782,461
Syria	260,114	320,406	309,976	402,000	441,000	481,000
Thailand	380,000	392,000	396,000	449,000	474,000	432,000
Turkey	808,255	914,633	1,241,278	1,492,562	1,706,659	2,005,611
Vietnam (North)	8,400	n.a.	162,500	n.a.	375,200	399,300
TOTAL (a) ..	186,000,000	201,000,000	212,000,000	226,000,000	255,000,000	277,000,000
WORLD'S TOTAL (a)	214,000,000	231,000,000	243,000,000	258,000,000	290,000,000	313,000,000

(a) Estimated.

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

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

CHINA CLAY
PRODUCTION OF CHINA CLAY

Long tons

Producing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom ..	1,144,234	1,196,386	1,223,808	1,212,981	1,312,353	1,427,846
Kenya	919	1,499	1,140	1,185	1,143	1,036
Nigeria	—	213	18	75	5	4
Southern Rhodesia ..	—	—	—	—	—	5,905
Tanganyika	94	18	—	98	77	219
Union of South Africa	10,067	10,376	14,128	r 23,743	17,887	26,219
Hong Kong	5,432	5,463	6,961	7,621	7,256	6,663
India	117,471	154,579	180,513	182,136	251,000	344,000
Malaya	1,378	1,155	1,510	1,200	1,282	1,223
Australia	45,054	41,089	43,486	37,099	36,974	48,195
OTHER COUNTRIES						
Austria (crude)	256,205	268,062	287,632	295,523	292,883	317,991
Czechoslovakia	220,000	227,000	251,000	255,000	257,000	n.a.
Denmark—						
Crude	6,217	5,956	3,629	6,490	(c) 6,113	(c) 6,205
Washed and pressed	6,389	4,795	3,992	5,532	(c) 4,331	(c) 4,826
Washed waste	7,633	5,874	5,695	4,099	(c) 5,964	(c) 5,774
France	110,000	115,000	128,000	136,000	142,000	n.a.
Germany (Federal) ..	313,301	313,644	325,478	323,559	301,678	304,162
Greece	n.a.	20,000	5,187	17,000	2,500	n.a.
Italy—						
Crude	51,293	53,425	60,167	59,492	90,248	n.a.
Kaolinic earth	39,793	r 47,237	46,111	54,480	23,169	n.a.
Portugal—						
Crude	18,867	23,860	20,674	34,066	16,759	} 46,126
Washed	22,771	24,301	26,579	24,735	26,870	
Spain (crude)	65,491	55,661	83,968	89,460	114,133	110,589
Sweden (washed) (b) ..	1,480	1,603	771	907	n.a.	n.a.
Algeria	566	—	—	—	—	—
Egypt	2,671	2,428	n.a.	8,964	11,041	n.a.
Malagasy Republic ..	87	25	19	—	—	—
Morocco	37	—	—	—	—	—
Mozambique	92	262	—	49	118	113
United States (a)	1,934,300	2,008,857	1,949,719	1,984,094	2,263,816	2,437,903
Argentina	27,000	28,000	22,031	n.a.	n.a.	n.a.
Chile	3,570	2,854	n.a.	n.a.	n.a.	n.a.
Colombia	n.a.	2,239	6,603	4,000	15,000	20,000
Peru	(b) 93	(b) 104	65	48	n.a.	n.a.
Japan	12,161	14,142	15,655	21,035	20,537	20,943
Korea (South)	13,920	9,239	6,517	21,224	42,137	50,422

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

(a) Sold or used by producers.

(c) Production in major establishments only.

(b) Sales.

EXPORTS OF CHINA CLAY

Long tons

Exporting Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom	683,507	758,651	774,861	754,153	834,903	1,003,943
Tanganyika	45	10	—	5	42	70
Hong Kong	4,072	4,107	5,268	4,920	4,292	7,474
India	<i>n.a.</i>	<i>n.a.</i>	243	283	302	(c) 217
Malaya	259	151	175	81	83	97
OTHER COUNTRIES						
Austria	26,078	30,146	34,723	31,549	27,190	31,712
Belgium-Luxemburg						
E.U.	431	207	16	2	29	76
Czechoslovakia	<i>n.a.</i>	27,000	105,000	112,000	131,000	<i>n.a.</i>
Denmark	807	963	1,543	318	1,370	1,294
France—						
China clay	2,986	8,301	8,172	8,368	21,969	39,209
Kaolinic earth	1,730	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Germany (Federal)	24,011	22,336	22,325	23,607	20,372	26,595
Greece	4,376	4,580	9,886	16,302	17,400	<i>n.a.</i>
Italy	110	172	206	322	37	135
Netherlands	(a) 964	(a) 461	(a) 474	(a) 545	(a) 558	597
Portugal	15,565	18,612	18,887	15,252	18,670	18,152
Spain	14,832	3,801	4,343	3,098	3,731	<i>n.a.</i>
Sweden	17	6	—	—	—	18
Algeria	(b) 569	69	—	—	—	—
Morocco	37	<i>n.a.</i>	<i>n.a.</i>	25	—	—
United States	44,491	52,802	48,999	59,303	66,727	71,397
Argentina	—	—	59	197	198	—
Chile	394	—	—	—	<i>n.a.</i>	<i>n.a.</i>
Japan	530	415	205	1,166	196	1,385
Korea (South)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	13,387	5,098	12,117

(a) Including pipe clay.

(c) Years ended March 31 following that stated.

(b) Including kaolinic earth.

IMPORTS OF CHINA CLAY

Long tons

Importing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Union of South Africa (a)	1,562	2,502	2,411	1,860	3,739	3,678
Canada	106,404	107,488	114,639	116,278	121,194	119,273
Hong Kong	106	210	71	80	77	1,019
India	15,042	8,664	4,284	5,809	4,288	(e) 6,710
Malaya	39	41	24	31	122	119
Pakistan	n.a.	711	2,834	4,040	2,424	3,737
Australia	5,553	9,168	6,631	2,502	14,654	9,093
New Zealand	1,261	931	1,051	1,261	1,369	1,914
OTHER COUNTRIES						
Austria	2,624	2,674	3,699	2,279	6,159	6,745
Belgium-Luxemburg						
E.U.	45,467	47,262	52,213	39,907	40,938	45,711
Denmark	26,871	28,369	30,398	25,984	21,175	28,261
Finland	44,897	57,218	58,683	61,870	57,007	91,471
France—						
China clay	62,858	81,679	85,320	99,374	90,984	122,712
Kaolinic earth	744	n.a.	n.a.	n.a.	n.a.	n.a.
Germany (Federal)	143,363	156,558	173,210	184,706	229,858	267,868
Italy	72,198	91,336	103,133	94,361	110,905	157,940
Netherlands	(b) 67,372	(b) 80,133	(b) 80,488	(b) 78,020	(b) 98,291	111,578
Norway	34,528	33,647	37,037	33,874	38,887	47,152
Portugal	121	32	162	144	133	169
Spain	396	205	594	1,984	571	n.a.
Sweden	62,442	76,821	78,588	80,882	94,403	116,392
Yugoslavia	4,517	4,180	8,053	9,006	6,402	6,883
Algeria	2,982	3,090	3,812	3,306	3,220	3,700
Angola	n.a.	20	20	13	—	17
Morocco	(c) 1,926	1,854	1,803	1,724	2,023	2,395
Mozambique	10	19	15	19	33	19
Tunisia	12	16	18	13	n.a.	n.a.
Mexico	n.a.	1,828	2,903	3,840	9,904	11,345
United States	136,068	129,413	119,917	120,296	126,014	113,677
Argentina	6,734	1,221	2,500	1,745	637	5,121
Brazil	85	140	219	40	107	122
Chile	37	38	30	124	n.a.	n.a.
Colombia	107	160	197	586	678	762
Ecuador	219	29	5	6	55	n.a.
Peru	348	360	680	492	532	613
Uruguay	n.a.	n.a.	1,042	798	1,969	2,276
Venezuela	n.a.	n.a.	n.a.	n.a.	2,875	2,914
Indonesia	1,083	1,372	976	753	909	1,640
Iran (d)	n.a.	5	60	264	n.a.	n.a.
Japan	10,896	12,173	15,655	14,277	14,811	31,687
Philippine Republic	344	313	642	765	1,930	3,075
Turkey	51	375	208	110	838	15

(a) Including Cornish or China stone.

(d) Years ended March 20 following that stated.

(b) Including pipe clay.

(e) Years ended March 31 following that stated.

(c) Including kaolinic earth.

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

Long tons

Producing Country	Estimated Cr ₂ O ₃ content						1960	1959	1958	1957	1956	1955
	1955	1956	1957	1958	1959	1960						
COMMONWEALTH COUNTRIES												
Sierra Leone ..	20,742	19,580	15,716	14,236	17,834	5,378				8,200	6,600	8,700
Southern Rhodesia ..	401,076	400,868	583,996	552,540	484,918	596,791				192,000	280,000	192,000
Union of South Africa ..	533,368	616,835	655,014	629,483	669,534	759,751				274,000	289,000	236,000
Cyprus (a) ..	7,912	7,175	6,200	11,274	13,427	(c) 14,020				3,244	2,869	3,719
India ..	89,349	52,686	78,542	r 62,947	83,871	98,531				25,300	37,700	44,000
Pakistan ..	28,401	22,746	16,173	23,767	16,023	18,094				10,900	7,800	13,600
Australia ..	—	6,096	3,049	776	120	—				2,624	1,420	—
TOTAL ..	1,080,848	1,125,986	1,358,700	r 1,287,023	1,285,727	1,490,000						
OTHER COUNTRIES												
Albania ..	129,166	130,086	164,648	198,000	243,100	(e) 295,300				n.a.	n.a.	n.a.
Greece ..	24,912	77,609	71,447	64,479	64,262	n.a.				35,000	32,000	11,000
U.S.S.R. (e) ..	670,000	728,000	760,000	790,000	840,000	902,000				n.a.	n.a.	n.a.
Yugoslavia ..	124,214	116,886	118,367	111,775	105,326	98,993				n.a.	n.a.	n.a.
Egypt ..	827	251	102	—	246	—				n.a.	n.a.	n.a.
Cuba ..	95,672	50,622	150,684	(e) 73,900	(h) 39,046	(h) 29,262				n.a.	n.a.	n.a.
Guatemala ..	286	896	(b) 1,000	1,044	404	178				n.a.	n.a.	n.a.
United States (f) ..	136,833	185,412	148,354	128,388	(g) 94,113	(g) 95,282				73,052	57,858	54,800
Argentina ..	—	—	44	n.a.	n.a.	n.a.				—	n.a.	—
Brazil ..	4,059	4,050	7,811	5,657	6,362	4,672				n.a.	n.a.	n.a.
Iran (d) ..	9,991	23,147	37,584	42,969	n.a.	n.a.				11,100	18,000	4,800
Japan ..	26,133	39,238	45,728	41,210	56,766	66,423				13,700	15,500	9,200
Philippine Republic ..	585,610	697,856	714,048	409,735	643,166	722,840				251,000	255,000	206,000
Turkey ..	634,155	819,916	899,740	512,674	381,539	472,045				394,000	432,000	304,000
New Caledonia ..	45,348	48,153	63,241	46,700	43,271	38,542				25,500	33,000	24,300
TOTAL ..	2,500,000	2,920,000	3,200,000	2,400,000	2,600,000	2,800,000						
WORLD'S TOTAL ..	3,600,000	4,050,000	4,600,000	3,700,000	3,900,000	4,300,000						

(a) Figures relate to saleable production.

(b) Estimated.

(c) Exports.

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

(e) United States Bureau of Mines' estimate.

(f) Shipments from mine.

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

(h) Imports into the United States.

EXPORTS OF CHROME ORE, ETC.

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Chromium metal	238	224	571	466	994	1,025
Rhodesia & Nyasaland—						
Ore	382,845	455,969	625,775	367,037	492,304	482,715
Ferro-chrome	6,616	7,650	8,108	6,384	9,651	9,232
Sierra Leone—						
Ore	17,750	18,774	16,378	11,211	5,011	14,719
Union of South Africa—						
Ore	463,723	551,812	631,836	540,870	599,513	743,827
Canada—						
Ferro-chrome	11,030	8,837	9,225	9,339	6,709	4,117
Cyprus—						
Ore and concentrates	8,570	5,826	5,070	11,840	12,176	14,020
India—						
Ore	48,743	41,866	41,164	48,624	80,362	(a) 29,861
Pakistan—						
Ore	22,105	34,800	12,805	12,447	13,775	10,880
OTHER COUNTRIES						
Austria—						
Ore	2,271	2,692	1,148	1,445	158	246
France—						
Chromium metal	51	70	152	639	580	527
Ferro-chrome	11,615	10,130	11,887	10,623	21,000	18,526
Germany (Federal)—						
Ore	410	4,183	577	569	574	521
Chromium metal	186	244	519	443	260	143
Greece—						
Ore	38,032	39,522	44,379	29,208	20,783	28,594
Italy—						
Ferro-chrome	220	1,707	3,407	5	8,743	7,488
Norway—						
Ferro-chrome	25,542	22,594	19,338	14,307	30,604	34,097
Sweden—						
Ore	15	11	2,821	—	—	3
Ferro-chrome	10,935	10,516	9,263	9,871	15,597	15,592
U.S.S.R.—						
Ore	155,500	215,500	254,700	211,600	267,700	420,300
Ferro-chrome	<i>n.a.</i>	<i>n.a.</i>	16,600	19,700	18,400	21,800
Yugoslavia—						
Ore and concentrates	44,773	54,772	35,580	14,180	24,507	19,675
Ferro-chrome	3,490	2,857	2,645	7,611	7,871	8,822
Egypt—						
Ore	—	207	280	5	<i>n.a.</i>	<i>n.a.</i>
Cuba—						
Ore	34,184	30,932	111,719	54,349	<i>n.a.</i>	<i>n.a.</i>
Guatemala—						
Ore	538	1,060	726	—	445	<i>n.a.</i>
United States—						
Ore	1,197	1,542	747	640	9,893	4,629
Chromium metal	6	9	10	53	10	56
Ferro-chrome	4,191	4,943	4,049	1,714	5,470	13,918
Iran (b)—						
Ore	<i>n.a.</i>	27,932	37,584	36,642	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Ferro-chrome	2,576	3,570	5,223	4,081	17,273	14,533
Philippine Republic—						
Ore and concentrates	407,129	588,350	627,983	390,560	735,250	783,346
Turkey—						
Ore	550,746	631,869	562,102	507,854	301,050	380,130
New Caledonia—						
Ore	87,701	48,413	60,048	41,096	44,041	44,154

(a) Years ended March 31 following that stated.

(b) Years ended March 20 following that stated.

IMPORTS OF CHROME ORE, ETC.

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore	151,979	143,373	187,747	178,236	165,092	295,610
Ferro-chrome	26,187	26,211	29,192	25,764	31,901	} 47,348
Ferro-silicon-chrome ..	1,695	2,313	2,097	1,744	1,623	
Canada—						
Ore	46,298	58,005	99,512	34,051	43,462	52,699
India—						
Ferro-chrome	193	77	259	131	271	(b) 410
Australia (a)—						
Ore	4,962	7,312	6,039	8,660	6,804	16,728
Ferro-chrome	994	1,701	1,911	1,240	2,680	3,409
OTHER COUNTRIES						
Austria—						
Ore	57,559	63,054	105,413	54,849	52,290	58,899
Ferro-chrome	6,711	8,384	9,218	5,927	11,254	14,009
Belgium-Luxemburg						
E.U.—						
Ore	712	862	1,220	472	491	697
Chromium metal ..	6	12	55	8	6	14
Ferro-chrome and silico-chrome	2,224	2,813	1,834	2,031	2,759	4,258
Denmark—						
Ferro-chrome	211	356	132	236	321	450
Finland—						
Ferro-chrome	565	612	934	815	1,109	1,402
France—						
Ore	104,529	146,367	126,604	103,969	151,202	185,677
Ferro-chrome	20	5	2	19	12	285
Germany (Federal)—						
Ore	234,320	218,427	173,712	255,249	263,392	355,881
Chromium metal ..	30	3	4	6	8	40
Germany (East)—						
Ore	23,810	(c) 14,641	(c) 23,103	(c) 19,815	(c) 21,441	(c) 25,630
Hungary—						
Ore	29,055	17,938	11,477	31,543	21,470	25,328
Ferro-chrome	1,416	1,695	2,207	1,754	2,130	2,260
Italy—						
Ore	25,151	34,863	32,565	19,821	53,348	69,885
Chromium metal ..	1	8	6	33	5	19
Ferro-chrome	3,401	6,456	5,870	6,132	8,359	15,116
Netherlands—						
Ore	260	457	94	569	708	1,235
Ferro-chrome	165	258	186	244	290	499
Norway—						
Ore	77,034	85,461	59,993	46,293	72,432	92,332
Spain—						
Ferro-chrome	425	332	203	402	950	n.a.
Sweden—						
Ore	78,826	64,508	87,283	59,545	108,768	138,723
Ferro-chrome	1,881	8,082	5,430	2,398	6,318	13,164
Yugoslavia—						
Ore	492	—	12,005	32,070	4,923	22,715
United States—						
Ore	1,637,499	1,942,014	2,038,144	1,128,069	1,387,094	1,238,055
(Cr ₂ O ₃ content) ..	683,286	820,763	878,118	486,113	594,163	509,499
Ferro-chrome	17,319	23,195	27,598	14,255	57,202	30,523
(Cr content)	239	365	1,209	r 2,077	2,558	811
Metal and alloys ..						

(a) Years ended June 30 of that stated.

 (c) Cr₂O₃ content.

(b) Years ended March 31 following that stated.

IMPORTS OF CHROME ORE, ETC.

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Brazil—						
Ferro-chrome	54	44	83	250	269	585
Chile—						
Ferro-chrome	6	2	56	19	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Ore	56,991	133,467	245,797	73,414	256,852	274,723
Ferro-chrome	143	91	84	51	—	2

COAL, COKE AND BY-PRODUCTS

PRODUCTION OF COAL

(Including Brown Coal and Lignite)

Long tons

Producing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Great Britain—						
Mined—						
Anthracite	3,520,600	3,438,100	3,376,200	3,179,300	2,949,700	2,875,200
Bituminous	206,665,100	206,487,300	206,682,700	198,295,800	192,323,400	183,176,300
Opencast—						
Anthracite	849,600	723,500	620,600	765,900	656,100	719,800
Bituminous	10,516,100	11,357,100	12,948,300	13,581,100	10,177,000	6,832,900
Northern Ireland—						
Bituminous	1,243	1,550	3,508	2,971	5,362	4,965
Nigeria—						
Sub-bituminous	748,499	787,209	815,271	924,419	741,757	561,995
Southern Rhodesia—						
Bituminous	3,262,322	3,497,763	3,791,793	3,479,661	3,699,277	3,503,103
Swaziland—						
Anthracite	—	—	—	—	1,423	11,469
Tanganyika—						
Bituminous	785	1,488	1,046	1,109	1,739	2,264
Union of South Africa—						
Anthracite and bituminous	31,603,541	33,071,166	34,219,253	36,499,340	35,876,381	37,570,611
Canada—						
Bituminous	9,093,622	9,204,988	8,081,020	6,918,115	6,201,303	6,517,646
Sub-bituminous	2,089,471	2,021,770	1,687,144	1,505,040	1,548,110	1,375,515
Lignite	2,048,050	2,090,751	2,007,868	2,011,764	1,738,732	1,938,212
India—						
Bituminous	38,226,000	39,280,148	43,504,996	45,340,447	} 47,000,000	51,810,000
Lignite	—	—	3,674	6,465		
Pakistan—						
Lignite	529,000	646,000	516,000	597,000	723,000	818,000
Malaya—						
Sub-bituminous	206,118	182,479	152,711	66,452	75,634	6,847
Australia—						
Bituminous and semi-anthracite	17,692,362	17,762,401	18,299,901	18,673,000	18,630,000	20,695,000
Sub-bituminous	1,582,388	1,511,433	1,619,195	1,769,049	1,668,000	1,882,000
Brown coal	10,112,206	10,559,801	10,740,989	11,643,629	13,034,605	14,967,000
New Zealand—						
Anthracite	1,505	1,835	1,700	1,975	1,919	504
Bituminous	782,210	799,226	830,290	836,684	838,990	799,621
Sub-bituminous	1,590,194	1,621,206	1,602,584	1,702,707	1,798,352	2,051,703
Lignite	182,744	205,449	177,889	178,668	170,333	160,215
TOTAL	341,304,000	345,253,000	351,685,000	347,980,000	339,860,000	338,280,000
Irish Republic—						
Anthracite including dust	134,500	163,131	163,265	139,215	152,584	(a) 157,000
Semi-bituminous and other coal	59,200	72,957	73,553	61,618	77,773	(a) 75,000
OTHER COUNTRIES						
Albania—						
Brown coal and lignite	191,567	220,572	232,010	252,000	284,000	(a) 300,000
Austria—						
Bituminous	168,331	163,244	149,933	138,820	131,865	129,951
Brown coal	6,514,335	6,623,533	6,768,660	6,391,039	6,122,495	5,879,024

(a) Estimated.

PRODUCTION OF COAL (cont.)

Long tons

Producing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Belgium—						
Anthracite and bituminous	29,503,000	29,088,333	28,627,014	26,635,000	22,397,402	22,110,547
Bulgaria—						
Anthracite and bituminous	288,000	364,000	379,000	374,000	490,000	590,000
Brown coal and lignite ..	9,604,000	10,282,000	11,322,000	12,155,000	14,600,000	16,260,000
Czechoslovakia—						
Bituminous	21,785,000	23,041,000	23,799,000	23,554,000	24,727,000	25,800,000
Brown coal	38,105,000	43,432,000	48,013,000	53,453,000	50,305,000	54,599,000
Lignite	2,003,000	2,136,000	2,198,000	2,487,000	2,550,000	2,882,000
Denmark—						
Lignite	788,000	1,370,000	2,520,000	2,406,000	2,268,000	2,273,000
France—						
Anthracite and bituminous	54,462,083	54,261,233	55,901,925	r 56,814,522	56,696,000	55,076,000
Lignite	r 2,040,616	2,216,735	2,257,166	2,281,539	2,142,669	2,240,000
Germany—						
Federal Republic (b)—						
Anthracite	5,872,918	6,613,258	6,622,603	6,903,415	7,002,177	6,680,378
Bituminous (a) ..	122,825,379	125,721,160	124,477,081	123,633,000	116,653,000	133,408,000
Pechkohle	1,753,167	1,717,083	1,781,942	1,749,000	1,752,000	1,755,000
Brown coal	89,029,496	93,814,516	r 95,557,000	r 92,241,000	92,193,000	94,634,000
East Germany—						
Bituminous	2,625,000	2,700,000	2,710,000	2,858,000	2,796,000	2,678,000
Brown coal	197,444,000	202,598,000	209,237,000	211,574,000	211,391,000	221,904,000
Greece—						
Lignite	770,032	785,000	982,000	1,174,000	1,495,600	2,492,000
Hungary—						
Bituminous	2,649,000	2,334,000	2,241,000	2,585,000	2,691,000	2,802,000
Brown coal	15,991,000	14,751,000	15,289,000	17,491,000	18,246,000	19,139,000
Lignite	3,331,000	3,177,000	3,431,000	3,782,000	4,010,000	4,163,000
Italy—						
Anthracite	46,890	52,895	54,546	43,032	30,743	19,219
Bituminous	1,070,272	1,007,150	952,916	r 669,508	696,251	706,162
Brown coal	412,574	397,175	387,845	817,772	1,202,960	756,283
Netherlands—						
Bituminous	11,706,704	11,468,730	11,196,165	11,692,335	11,789,011	12,301,091
Brown coal	251,000	265,478	283,395	251,323	195,625	3,908
Poland—						
Bituminous	92,983,600	93,646,200	92,609,500	93,480,900	97,500,000	102,000,000
Brown coal	5,949,300	6,085,100	5,862,000	7,421,600	9,200,000	9,200,000
Portugal—						
Anthracite	398,085	407,014	490,897	558,190	518,876	428,000
Brown coal	86,444	143,720	180,782	153,892	156,939	154,000
Roumania—						
Anthracite and bituminous ..	188,633	187,965	247,000	295,000	295,000	325,000
Lignite	2,257,155	2,487,475	2,851,975	2,901,103	3,228,000	3,095,000
Brown coal	3,561,989	3,694,583	3,845,000	4,074,000	4,328,000	4,614,000
Saar—						
Bituminous	17,056,000	16,818,000	16,195,000	16,164,000	15,972,000	(c)
Spain—						
Anthracite	1,928,271	2,238,200	2,793,701	3,071,448	2,578,866	2,474,638
Bituminous	10,300,283	10,409,282	10,916,852	11,144,956	10,748,167	11,091,054
Lignite	1,806,984	1,897,655	2,478,825	2,629,434	2,069,094	1,734,306

(a) Including Stockheim hard coal.

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

 Hard coal. 1955—1,032,600; 1956—1,139,500; 1957—1,161,800; 1958—936,000; 1959—798,000; 1960—904,000.

 Brown coal. 1955—24,800; 1956—41,000; 1957—r 61,000; 1958—r 44,000; 1959—39,000; 1960—62,000.

(c) Included with Germany (Federal).

PRODUCTION OF COAL (cont.)

Long tons

Producing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES (cont.)						
Spitzbergen—						
Bituminous						
Norwegian mines ..	317,059	383,864	378,101	283,414	247,704	397,240
Russian mines (b) ..	305,215	344,298	387,909	379,751	450,694	472,808
Sweden—						
Bituminous	277,496	289,570	299,388	313,719	267,921	243,000
U.S.S.R.—						
Bituminous and anthracite	271,700,000	298,900,000	322,000,000	347,000,000	359,600,000	367,000,000
Lignite	113,100,000	123,500,000	134,000,000	141,000,000	138,900,000	140,000,000
Yugoslavia—						
Bituminous	1,115,000	1,215,000	1,207,000	1,188,000	1,276,000	1,263,000
Brown coal and lignite	13,852,000	15,617,000	16,435,000	17,598,000	19,498,000	20,092,000
Algeria—						
Bituminous anthracite	297,665	r 292,109	232,237	r 150,713	120,000	117,000
Congo Republic	472,345	412,874	426,223	289,675	262,616	174,000
Malagasy Republic—						
Bituminous	50	364	1,110	—	—	—
Morocco—						
Anthracite	459,600	474,400	512,771	501,944	457,324	405,983
Mozambique—						
Bituminous	169,821	214,851	265,711	243,674	252,569	265,367
Greenland—						
Bituminous	16,000	16,000	17,000	31,000	27,000	28,000
Mexico—						
Bituminous	1,321,762	1,385,862	1,398,355	1,447,477	1,551,716	1,748,000
United States—						
Anthracite	23,396,923	25,803,768	22,623,501	18,902,805	18,436,862	16,801,287
Bituminous	412,024,579	444,639,000	437,586,226	364,302,241	365,397,000	368,539,000
Lignite	2,826,678	2,570,000	2,327,984	2,166,997	2,482,000	2,452,000
Argentina—						
Lignite	133,832	146,670	205,424	257,000	295,800	266,900
Brazil—						
Bituminous and lignite	2,232,480	2,198,775	2,040,654	2,204,393	2,293,000	2,126,000
Chile—						
Bituminous	2,271,618	2,241,590	2,063,059	1,967,819	1,861,857	1,447,000
Columbia—						
Bituminous	1,820,000	2,000,000	2,539,112	2,200,000	2,500,000	2,700,000
Peru—						
Anthracite	15,389	15,401	16,978	105,072	} 170,000	155,000
Bituminous	118,620	127,793	121,360	114,781		
Venezuela—						
Bituminous	29,995	30,292	34,022	35,956	33,452	34,730
Afghanistan—						
Bituminous	23,000	24,000	27,000	33,213	36,000	46,000
Burma	7,000	1,345	738	—	1,369	112
China	96,750,000	108,620,000	128,000,000	270,000,000	342,300,000	413,000,000
Formosa—						
Bituminous	2,322,054	2,489,103	2,870,028	3,131,172	3,506,856	3,899,378
Indonesia—						
Bituminous	800,816	815,158	705,958	714,168	627,551	647,877
Iran—						
Bituminous	(a) 250,000	(a) 250,000	(c) 108,461	(c) 181,379	n.a.	n.a.
Japan—						
Anthracite	1,335,000	1,394,000	1,653,000	1,618,000	1,590,000	1,774,000
Bituminous	40,415,000	44,425,000	49,261,000	47,266,000	43,387,000	47,018,000
Lignite	1,346,487	1,496,300	1,636,219	1,557,448	1,445,501	1,465,597
Korea (South)—						
Anthracite	1,287,660	1,786,700	2,402,661	2,628,706	4,071,083	5,265,500
Korea (North)	d 3,100,000	d 4,000,000	d 5,000,000	r 6,773,000	8,714,000	10,452,000

(a) Estimated.

(b) Exports.

(c) Years ended March 20 following that stated.

(d) United States Bureau of Mines' estimate.

PRODUCTION OF COAL (cont.)

Long tons

Producing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES (cont.)						
Philippine Republic— Bituminous	128,126	149,312	188,132	106,078	137,644	145,522
Thailand— Lignite	39,000	86,000	98,000	123,000	107,808	106,081
Turkey— Bituminous	5,420,028	5,795,310	6,176,017	6,446,963	6,420,846	6,207,446
Lignite	2,377,880	2,962,440	3,579,449	3,760,172	3,605,103	3,356,845
Vietnam (North)— Anthracite	1,080,000	1,196,000	1,068,000	1,473,000	2,167,000	2,534,000
Vietnam (South)— Anthracite .. ..							2,071	12,175	20,384	20,000	27,000
TOTAL	1,760,000,000	1,880,000,000	1,950,000,000	2,050,000,000	2,140,000,000	2,250,000,000
WORLD'S TOTAL ..	2,100,000,000	2,220,000,000	2,300,000,000	2,400,000,000	2,480,000,000	2,590,000,000

PRODUCTION OF COKE

Long tons

Producing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Great Britain—						
Gas-works—coke (a) ..	12,741,000	12,704,000	12,015,000	11,145,000	10,070,000	9,866,000
breeze (a) ..	2,855,000	2,862,000	2,712,000	2,634,000	2,470,000	2,474,000
Coke-ovens—coke ..	18,103,000	19,644,000	20,492,000	18,452,000	17,047,000	18,834,000
breeze ..	1,191,000	1,255,000	1,364,000	1,216,000	1,121,000	1,294,000
Northern Ireland—						
Gas works ..	163,376	159,300	115,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Southern Rhodesia ..						
Union of South Africa ..	1,379,059	1,451,922	1,581,074	1,767,730	1,968,544	2,076,596
Canada—						
Gas-works—coke ..	59,943	} 54,032	44,037	47,886	} 3,656,145	3,457,859
breeze ..	74					
Coke-ovens—coke ..	3,317,834	} 3,813,125	3,633,821	3,062,029		
breeze ..	197,705					
India—						
Gas-works ..	91,718	70,665	112,692	122,470	127,377	125,524
Hard ..	2,601,465	2,495,297	2,663,116	3,023,551	4,231,448	4,702,208
Soft ..	1,650,814	1,652,015	1,721,697	1,785,470	1,781,576	1,787,286
Australia (d)						
Gas-works—coke ..	1,099,859	1,000,462	922,702	831,615	815,464	758,668
breeze ..	208,218	170,321	152,896	146,196	173,618	(f) 316,549
Coke-ovens—coke ..	2,046,790	2,058,426	2,234,458	2,295,737	2,196,650	2,376,097
breeze ..	128,684	170,513	203,979	182,390	170,190	(g)
New Zealand (b)—						
Gas-works ..	66,561	73,705	70,229	72,493	72,016	<i>n.a.</i>
Irish Republic—						
Gas works (c) ..	99,131	94,538	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
OTHER COUNTRIES						
Austria—						
Gas-works ..	427,616	443,977	397,358	319,259	265,928	258,288
Coke-ovens ..	1,450,471	1,688,218	1,824,297	1,602,967	1,524,766	1,808,218
Belgium—						
Gas-works ..	9,000	1,000	4,000	4,000	1,000	—
Coke-ovens ..	6,497,000	7,155,623	7,043,445	6,797,000	7,103,000	7,422,000
Bulgaria ..						
Czechoslovakia—	10,000	9,997	11,582	10,302	8,878	<i>n.a.</i>
Hard coke ..	7,000,000	7,211,000	7,367,000	7,254,000	7,754,000	8,324,000
Brown-coal coke ..	1,750,000	1,785,000	2,035,000	2,059,000	2,149,000	<i>n.a.</i>
Denmark (gas-works) ..						
Finland (gas-works) ..	572,200	544,000	528,000	519,000	<i>n.a.</i>	<i>n.a.</i>
France—	113,687	95,553	104,824	r 124,000	128,000	136,000
Gas-works (e) ..	1,704,000	1,588,000	1,509,000	r 1,324,800	994,000	650,000
Coke-ovens ..	10,590,000	12,093,573	12,407,742	r12,306,281	12,929,000	13,421,000
Semi-coke ..	296,780	299,601	276,818	r 272,108	283,000	292,000
Germany (Federal)—						
Gas-works ..	4,982,000	5,657,000	5,374,000	4,882,000	4,935,000	5,138,000
Coke-ovens—hard coke	39,976,000	42,857,000	44,616,000	42,890,000	37,921,000	44,047,000
do. brown-coal coke ..	611,000	576,000	574,000	589,000	586,000	592,000
Germany (East)—						
Hard coke ..	2,662,000	2,751,000	2,773,000	2,949,000	3,085,000	3,155,000
Brown-coal coke ..	6,718,000	7,037,000	7,290,000	7,456,000	7,422,000	7,577,000
Greece (gas-works) ..						
	23,195	21,822	21,175	20,519	19,057	<i>n.a.</i>

(a) Excluding coke used for heating retorts.

(e) Sales.

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

(f) Including coke-ovens.

(c) Including coke-breeze.

(g) Included with gas-works.

(d) Years ended June 30 of that stated.

PRODUCTION OF COKE (cont.)

Long tons

Producing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES (cont.)						
Hungary—						
Gas-works	385,000	378,000	408,000	416,000	425,000	441,000
Coke-ovens—hard coke	30,000	86,000	258,000	366,000	388,000	533,000
do. brown-coal coke	61,000	38,000	36,000	45,000	47,000	47,000
Italy—						
Gas-works	977,792	985,349	915,782	814,698	787,308	786,770
Coke-ovens	2,907,503	3,356,882	3,628,772	3,307,264	3,006,769	3,656,403
Luxemburg—						
Gas-works	35,000	36,000	35,000	35,000	34,000	36,000
Netherlands—						
Gas-works	854,000	767,000	648,000	558,000	430,000	287,000
Coke-ovens	3,839,000	4,186,000	4,215,000	4,058,000	4,063,000	4,486,000
Norway (gas-works)	56,815	58,961	55,309	48,632	48,483	45,983
Poland	9,877,000	10,344,000	10,725,000	10,967,100	11,400,000	11,700,000
Portugal (gas-works)	37,782	36,431	33,611	38,620	34,928	38,000
Roumania—						
Coke-ovens	141,689	251,666	428,572	553,708	599,000	807,000
Saar—						
Coke-ovens	3,877,036	4,139,930	4,255,660	4,109,535	} 4,367,000	(f)
Semi-coke	114,523	125,240	123,194	111,644		
Spain—						
Gas-works	245,631	257,698	249,775	264,514	268,114	243,951
Coke-ovens	1,429,537	1,622,898	1,853,977	2,018,637	2,369,221	2,532,905
Sweden (including breeze)	808,971	844,823	759,586	702,165	n.a.	n.a.
Switzerland—						
Gas-works	467,411	503,713	500,539	450,640	460,551	476,170
U.S.S.R.	42,900,000	45,900,000	47,800,000	50,100,000	52,550,000	b54,600,000
Yugoslavia—						
Gas-works	23,421	22,688	24,240	25,400	20,500	19,500
Coke-ovens	719,853	908,813	1,020,862	1,014,000	1,053,000	1,066,000
Algeria (gas-works)	82,908	86,174	90,135	86,435	88,000	n.a.
Egypt	22,803	n.a.	n.a.	n.a.	n.a.	n.a.
Libya—						
Gas-works	—	—	n.a.	(b) 5,000	(b) 5,000	(b) 5,000
Tunisia (gas-works)	589	—	—	—	—	—
Mexico (coke-ovens)	500,252	565,000	674,000	587,000	671,000	822,000
United States—						
Coke-ovens—						
Coke	64,801,868	e 64,278,787	e 65,947,046	e47,326,545	e48,918,996	e50,195,632
Breeze and screenings	4,275,315	e 4,260,547	e 4,341,602	e 3,264,462	e 3,313,364	e 3,308,434
Coke-ovens (gas-works)						
(d)—						
Coke	898,323	(a)	(a)	(a)	(a)	(a)
Breeze and screenings	65,957	(a)	(a)	(a)	(a)	(a)
Beehive—						
Coke	1,533,582	2,223,468	1,866,097	534,261	959,193	901,437
Breeze and screenings	79,281	88,375	45,115	52,239	66,265	33,633
Argentina	138,691	n.a.	n.a.	n.a.	n.a.	n.a.
Brazil (c)	473,530	468,043	506,498	r 499,802	513,074	693,000
Chile	338,000	(b) 500,000	(b) 500,000	(b) 480,000	321,398	n.a.
Colombia	246,000	246,000	r 235,000	r 276,191	244,160	244,300
Peru	30,532	23,967	30,865	32,403	31,000	31,000
Uruguay (gas-works)—						
Coke	30,197	29,578	28,955	30,001	27,764	31,065
Breeze	4,248	4,314	4,997	4,253	4,036	4,485

(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).

(f) Included with Germany (Federal).

PRODUCTION OF COKE (*cont.*)

Long tons

Producing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
China (<i>a</i>).. .. .	4,500,000	5,400,000	6,600,000	18,000,000	22,000,000	25,000,000
Formosa	172,000	190,200	251,800	213,100	187,700	(<i>b</i>) 200,000
Japan—						
Gas-works	2,335,742	2,644,000	2,971,000	2,840,917	3,172,889	3,660,982
Coke-ovens	3,721,780	4,196,000	4,715,000	4,388,192	5,188,015	6,380,352
Beehive, etc.	919,668	1,158,000	1,455,000	1,424,970	1,819,864	2,033,937
Korea (North) (<i>a</i>)	390,000	390,000	390,000	420,000	450,000	500,000
Korea (South)	—	—	3,000	1,300	—	—
Turkey—						
Gas-works	<i>n.a.</i>	<i>n.a.</i>	99,336	108,739	(<i>b</i>) 115,000	(<i>b</i>) 100,000
Coke-ovens	499,457	494,841	538,532	547,930	521,102	520,938
Semi-coke	<i>n.a.</i>	<i>n.a.</i>	79,108	80,025	81,320	82,437

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

(*b*) Estimated.

PRODUCTION OF BRIQUETTES

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Great Britain	1,681,000	1,776,000	2,106,000	2,199,000	1,719,000	1,453,000
Canada	583,564	671,861	352,249	182,187	136,727	72,484
Australia (a)—						
Brown-coal briquettes..	631,000	634,000	617,989	626,174	642,950	974,670
New Zealand	13,137	<i>n.a.</i>	15,445	16,349	15,755	15,082
Irish Republic	1,672	2,015	1,800	128	483	<i>n.a.</i>
OTHER COUNTRIES						
Austria—						
Brown-coal briquettes..	10,415	6,891	12,118	2,405	—	—
Belgium	1,512,000	1,789,580	1,793,552	1,020,000	985,959	1,061,505
Czechoslovakia—						
Coal briquettes	<i>n.a.</i>	<i>n.a.</i>	326,000	387,000	372,000	322,000
Brown-coal briquettes	<i>n.a.</i>	<i>n.a.</i>	305,000	326,000	323,000	429,000
Denmark—						
Brown-coal briquettes ..	17,957	20,677	25,469	r 29,915	(e) 20,062	(e) 18,491
France	6,600,160	7,773,279	8,125,650	r 6,993,509	6,457,000	5,978,000
Germany (Federal)—						
Coal briquettes	6,370,000	7,082,000	7,243,000	5,544,000	4,636,000	5,137,000
Brown-coal briquettes ..	16,180,000	16,690,000	16,560,000	16,177,000	14,965,000	15,004,000
Germany (East)—						
Brown-coal briquettes ..	50,162,000	50,819,000	52,523,000	53,155,000	53,197,000	55,162,000
Hungary—						
Brown-coal briquettes ..	554,000	530,000	569,000	755,000	855,000	918,000
Netherlands—						
Coal briquettes	960,727	1,016,624	r 1,120,246	1,069,163	1,043,550	1,162,400
Brown-coal briquettes ..	84,000	76,985	80,165	73,931	62,860	61,500
Poland—						
Coal briquettes	687,800	637,800	654,000	631,000	672,000	707,000
Brown-coal briquettes ..	180,000	184,300	229,000	271,000	315,000	308,000
Portugal	94,401	99,915	89,842	73,852	59,039	52,668
Spain	1,163,227	1,274,679	1,360,614	1,410,847	1,257,001	1,125,302
Switzerland (b)	100,000	100,000	100,000	100,000	100,000	100,000
Algeria	24,014	30,152	42,229	r 49,845	48,713	<i>n.a.</i>
Morocco	16,236	9,666	18,587	17,392	15,031	<i>n.a.</i>
Tunisia	9,836	4,279	10,671	1,394	<i>n.a.</i>	<i>n.a.</i>
United States (c)	1,454,948	1,355,839	986,412	924,340	773,321	664,629
Korea (South)	40,314	—	300,000	334,866	455,048	450,000
Turkey (d)	80,441	66,459	57,852	113,729	117,313	147,764

(a) Years ended June 30 of that stated.

(b) Estimated.

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

1955—61,796; 1956—58,000; 1957—42,221; 1958—31,937; 1959—30,103; 1960—22,059.

(d) Sales.

(e) Production in major establishments only.

PRODUCTION OF COAL BY-PRODUCTS*

Long tons

Producing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Great Britain—						
Tar (crude) distilled ..	2,778,000	2,869,000	2,866,000	2,722,000	2,616,000	2,681,000
Tar (refined)	662,000	608,000	588,000	538,000	556,000	547,000
Pitch	491,000	534,000	446,000	512,000	464,000	412,000
Motor benzol	189,000	204,000	189,000	168,000	116,000	<i>n.a.</i>
Other motor spirits, etc.	109,300	90,300	82,700	56,700	5,700	5,700
Other refined light oils..	195,700	197,600	227,500	226,700	260,000	<i>n.a.</i>
Creosote-pitch mixture	803,000	879,000	1,050,000	899,000	857,000	1,051,000
Creosote oil	452,000	479,000	428,000	433,000	380,000	410,000
White naphthalene ..	9,600	10,500	8,700	6,500	6,100	6,300
Hot-pressed do. ..	20,800	22,600	19,600	23,500	29,300	22,600
Crude do.	19,600	19,000	20,700	25,100	27,200	45,300
Pyridine bases	1,500	1,500	1,300	1,600	1,500	<i>n.a.</i>
Natural phenol	11,800	13,600	14,900	18,600	18,200	18,500
Refined cresylic acid ..	59,000	67,000	69,000	64,000	67,000	<i>n.a.</i>
Anthracene 40-50% ..	2,600	2,800	3,400	2,300	3,700	<i>n.a.</i>
Southern Rhodesia—						
Tar (crude)	<i>n.a.</i>	<i>n.a.</i>	3,070	3,176	(c) 6,081	(c) 3,446
Motor benzol	<i>n.a.</i>	<i>n.a.</i>	544	507	(c) 415	(c) 562
Ammonia liquor	<i>n.a.</i>	<i>n.a.</i>	875	1,020	(c) 1,041	(c) 1,040
Canada—						
Tar (crude)	221,198	231,791	223,854	183,948	<i>n.a.</i>	<i>n.a.</i>
Tar (refined)	18,255	19,571	15,264	16,482	11,678	<i>n.a.</i>
Pitch	106,829	119,817	107,732	102,230	113,054	<i>n.a.</i>
Creosote oils	48,764	45,861	57,067	45,600	48,325	<i>n.a.</i>
Ammonium sulphate ..	37,165	34,806	27,276	26,234	<i>n.a.</i>	<i>n.a.</i>
Benzol	33,270	37,298	34,532	27,665	<i>n.a.</i>	<i>n.a.</i>
Toluol, xylo and naphthalene	10,092	10,633	10,018	9,531	<i>n.a.</i>	<i>n.a.</i>
India (coke-ovens)—						
Tar	78,008	76,318	111,689	113,134	163,554	203,307
Benzol	3,071	2,621	5,570	4,096	3,198	3,527
Benzene	r 319	r 695	r 2,108	r 3,094	4,268	4,277
Toluol	32	38	96	282	216	368
Toluene	254	198	431	236	685	955
Solvent naphtha	159	154	492	478	513	492
Pitch	861	939	1,898	3,004	6,931	7,042
Naphthalene	18	38	29	82	28	7
Ammonium sulphate ..	11,902	14,281	22,276	24,547	34,471	39,125
Australia (a)—						
Tar (crude)	239,019	278,729	270,762	254,507	255,383	266,472
Tar (refined)	87,796	132,891	145,010	141,805	147,161	152,041
Tar oils (crude)	22,050	<i>n.a.</i>	17,813	17,869	17,750	17,141
Ammoniacal liquor ..	119,517	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
New Zealand (b)—						
Tar (gas-works)	13,017	12,888	13,577	13,234	13,046	<i>n.a.</i>
Irish Republic (gas-works)—						
Tar	15,256	14,403	<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 85 for conversion rates.

See Nitrogen Compounds (pages 219-221) for total production of ammonium sulphate.

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

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

(c) Sales.

PRODUCTION OF COAL BY-PRODUCTS (cont.)

Long tons

Producing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
Austria—						
Tar	23,586	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Benzol	2,752	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Belgium—						
Tar (crude)	214,525	244,406	248,150	243,310	253,548	263,572
Benzol (motor) ..	36,565	40,675	50,608	54,175	57,245	20,270
do. industrial ..	7,511	8,633	8,598	8,184	8,941	26,104
Benzene	10,098	11,834	4,869	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Toluol and xylol ..	3,720	4,098	2,173	1,156	} 2,090	} 6,058
Solvent naphtha ..	1,193	1,535	827	386		
Denmark (a)—						
Tar (gas-works) ..	44,084	40,559	41,072	39,845	<i>n.a.</i>	<i>n.a.</i>
Benzol (crude) ..	495	405	136	84	<i>n.a.</i>	<i>n.a.</i>
Finland (gas-works)—						
Tar	<i>n.a.</i>	<i>n.a.</i>	5,388	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Benzol	<i>n.a.</i>	<i>n.a.</i>	581	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ammonia	<i>n.a.</i>	<i>n.a.</i>	343	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
France—						
Tar (crude)	627,407	682,749	698,154	713,190	705,186	700,000
Ammonium sulphate ..	r 99,439	r 112,327	112,760	r 113,620	119,325	130,000
Benzol (crude) ..	114,198	127,542	131,153	135,757	144,558	152,150
Pitch	168,588	203,375	213,848	214,249	209,175	218,244
Naphthalene	35,023	37,812	49,082	59,785	77,028	80,492
Germany (Federal)—						
Tar (crude)	1,790,397	1,874,000	1,927,000	1,870,000	1,713,000	(b)1,781,000
Pitch	874,149	920,925	950,120	966,024	862,390	959,148
Tar oils	566,188	633,152	673,487	646,578	589,034	660,684
Naphthalene	74,725	87,417	97,687	91,342	108,525	126,253
Benzol (crude) ..	502,709	537,965	554,989	539,000	487,000	592,000
Refined benzols ..	469,409	504,241	554,115	559,887	511,186	642,173
Phenol	9,607	10,676	12,172	12,908	15,100	15,701
Cresol and xylol ..	18,875	18,570	20,823	20,422	25,317	24,323
Anthracene	32,685	39,749	40,619	39,496	32,597	32,514
Pyridine and bases ..	355	790	884	717	782	940
Italy—						
Tar	162,243	174,087	180,886	170,921	163,179	178,187
Ammonium sulphate ..	35,496	37,185	40,658	38,360	35,295	<i>n.a.</i>
Benzol (crude) ..	32,697	34,890	39,139	35,043	30,444	35,738
Naphthalene (crude) ..	6,256	7,101	6,969	6,751	6,109	8,848
Distillates	51,853	52,989	45,834	46,083	50,996	63,970
Benzol (refined) ..	18,350	21,995	21,831	20,413	23,548	27,659
Toluol and xylol ..	5,756	6,437	5,799	6,601	6,847	6,226
Pitch	62,037	62,141	57,092	53,226	59,045	76,574
Solvent naphtha ..	1,151	943	918	1,033	1,111	1,215
Netherlands—						
Tar (crude)	166,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Norway—						
Tar (gas-works) ..	6,642	5,958	6,094	5,577	5,594	5,318
Poland—						
Tar (coke-ovens) ..	387,600	405,400	423,000	435,400	453,800	479,900
Ammonium sulphate (coke-ovens) ..	98,800	104,300	107,300	110,600	113,100	115,700
Benzol (coke-ovens) ..	122,500	131,100	137,100	139,200	140,200	147,700
Naphthalene	22,672	25,061	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Portugal (gas-works)—						
Tar (crude)	3,668	3,722	2,053	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Tar (refined)	120	116	44	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Creosote	1,979	1,236	1,466	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Pitch	1,843	1,277	1,320	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

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

(b) Coke-ovens only.

PRODUCTION OF COAL BY-PRODUCTS (cont.)

Long tons

Producing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Spain—						
Tar	75,032	83,768	141,173	107,787	130,613	<i>n.a.</i>
Pitch	18,780	16,893	23,498	28,571	33,510	34,155
Benzol	18,849	16,991	22,355	32,491	35,640	39,157
Benzene	<i>n.a.</i>	<i>n.a.</i>	4,505	5,084	3,595	7,742
Toluol	<i>n.a.</i>	<i>n.a.</i>	1,396	1,892	1,203	2,325
Toluene	<i>n.a.</i>	<i>n.a.</i>	724	788	1,150	798
Solvent naphtha	<i>n.a.</i>	<i>n.a.</i>	303	354	244	201
Anthracene	<i>n.a.</i>	<i>n.a.</i>	9,385	10,048	10,114	13,142
Naphthalene	1,868	3,975	4,276	4,932	5,286	6,337
Ammonium sulphate	141,811	134,523	143,962	180,933	213,482	324,737
Creosote	5,076	8,622	4,184	9,077	9,484	10,924
Sweden—						
Tar (crude)	36,754	38,418	35,433	34,190	<i>n.a.</i>	<i>n.a.</i>
Other tar	27,115	30,518	29,076	31,958	<i>n.a.</i>	<i>n.a.</i>
Pitch	911	458	587	373	<i>n.a.</i>	<i>n.a.</i>
Benzol, toluol, etc.	4,365	4,032	4,262	3,401	<i>n.a.</i>	<i>n.a.</i>
Distillates, etc.	3,884	4,938	5,829	6,093	<i>n.a.</i>	<i>n.a.</i>
Switzerland—						
Tar (crude) (gas-works)	27,006	29,434	28,999	27,282	26,608	28,561
Yugoslavia—						
Benzol	4,032	6,103	8,877	8,664	11,113	11,182
Algeria—						
Tar (gas-works)	4,997	5,440	5,295	5,173	5,200	<i>n.a.</i>
Tunisia—						
Tar (gas-works)	192	—	—	—	—	—
United States—						
Coke-ovens—						
Tar (crude)	3,644,970	3,559,090	3,732,796	2,860,326	2,793,710	2,938,289
Pitch	1,002,446	915,633	825,896	736,134	640,808	929,046
Sulphate equivalent of ammonia produced (a)	933,749	870,359	905,112	660,036	639,913	656,644
Benzol	580,734	581,420	597,508	394,266	399,437	451,088
do. motor	(b)	(b)	4,931	3,736	1,337	2,070
Naphthalene (crude)	82,242	79,044	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Toluol and xylol	161,763	155,483	159,407	119,218	112,704	125,733
Solvent naphtha	17,665	18,669	20,123	14,164	12,895	14,700
Creosote	123,092	127,541	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Phenol	5,959	4,859	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Other light products	21,150	21,334	27,050	15,510	10,499	12,288
All sources (c)—						
Tar (crude)	3,644,970	3,559,090	3,732,796	2,860,326	2,793,710	<i>n.a.</i>
Water gas and oil gas tar	262,521	205,726	179,915	121,970	65,342	<i>n.a.</i>
Crude light oil (d)	1,001,847	979,187	1,006,197	730,903	710,120	<i>n.a.</i>
Benzol (e)	1,024,930	1,121,967	1,105,160	957,233	1,157,060	1,524,410
Toluol	137,556	139,941	139,359	105,320	100,110	<i>n.a.</i>
Xylol	38,761	39,876	39,575	29,380	26,170	<i>n.a.</i>
Solvent naphtha	86,304	80,147	67,811	51,487	25,110	<i>n.a.</i>
Other light oil derivatives	31,843	30,650	42,810	27,730	21,230	<i>n.a.</i>
Naphthalene (crude)	213,022	219,388	187,619	154,056	189,863	<i>n.a.</i>
Creosote oil	514,687	525,595	505,429	445,817	358,880	<i>n.a.</i>

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

1955—876,184; 1956—788,125; 1957—811,520; 1958—571,802; 1959—553,807; 1960—564,278

(b) Included with "Other light products".

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

(d) Including some material produced from petroleum.

(e) Excluding motor benzol, which is included with "Other light oil derivatives.".

PRODUCTION OF COAL BY-PRODUCTS (cont.)

Long tons

Producing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
United States						
<i>(cont.)—</i>						
Tar, refined (a) ..	148,397	164,235	182,050	182,050	123,070	<i>n.a.</i>
Tar, road ..	398,620	394,769	405,637	296,480	282,510	<i>n.a.</i>
Distillate products, others ..	106,869	124,353	149,111	98,417	80,210	<i>n.a.</i>
Pitch of tar ..	1,841,000	1,846,000	1,703,000	1,420,000	1,364,000	<i>n.a.</i>
Pitch of tar coke ..	29,000	28,000	25,000	26,000	31,000	<i>n.a.</i>
Mexico—						
Tar ..	5,879	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Benzol ..	2,795	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Creosote ..	6,099	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ammonium sulphate ..	3,675	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Brazil (b)—						
Tar ..	45,774	49,862	53,000	45,253	52,274	<i>n.a.</i>
Benzol ..	3,846	3,969	5,000	3,861	3,112	<i>n.a.</i>
Toluol and xylol ..	759	1,185	1,000	909	705	<i>n.a.</i>
Solvent naphtha ..	46	100	60	63	59	<i>n.a.</i>
Naphthalene ..	1,832	2,087	2,184	1,875	1,718	<i>n.a.</i>
Creosote oil ..	1,928	1,791	3,000	2,434	2,345	<i>n.a.</i>
Ammonium sulphate ..	5,872	6,662	5,731	4,547	4,971	<i>n.a.</i>
Pitch ..	1,908	1,491	2,000	2,805	<i>n.a.</i>	<i>n.a.</i>
Carbolic acid ..	<i>n.a.</i>	627	<i>n.a.</i>	926	415	<i>n.a.</i>
Colombia—						
Tar ..	9,810	6,400	<i>n.a.</i>	15,073	<i>n.a.</i>	<i>n.a.</i>
Benzol ..	1,718	1,848	4,057	5,367	<i>n.a.</i>	<i>n.a.</i>
Ammonium sulphate ..	1,295	2,000	2,810	2,947	<i>n.a.</i>	<i>n.a.</i>
Uruguay (gas-works)—						
Tar ..	1,970	2,521	2,623	2,813	2,798	2,933
Benzol ..	154	157	175	165	152	139
Tar oil ..	97	—	—	—	—	—
Pitch ..	237	—	—	—	—	—
Japan—						
Tar ..	499,985	601,307	631,813	655,411	776,405	888,853
Benzol (crude) ..	96,291	117,000	130,582	126,656	160,223	196,929
do. (other) ..	52,769	69,835	58,815	76,046	93,326	122,873
Toluol and xylol ..	8,834	10,948	10,223	14,672	20,293	31,739
Solvent naphtha ..	6,508	7,132	6,534	7,250	8,846	10,996
Creosote oil ..	138,702	150,182	164,141	156,887	179,195	199,484
Carbolic acid (crude) ..	5,941	7,275	6,862	<i>n.a.</i>	10,409	11,287
Naphthalene (crude) ..	28,605	30,105	27,599	27,166	35,761	50,889
do. (refined) ..	16,310	23,385	28,564	29,262	10,176	10,656
Anthracene ..	4,712	4,712	6,450	6,107	7,904	11,621
Ammonium sulphate ..	99,468	114,408	122,099	118,925	<i>n.a.</i>	<i>n.a.</i>
Turkey—						
Road tar ..	<i>n.a.</i>	<i>n.a.</i>	8,819	10,954	—	17,887
Pitch ..	15,020	15,680	15,917	r 15,350	14,960	<i>n.a.</i>
Benzol ..	<i>n.a.</i>	<i>n.a.</i>	4,894	4,963	4,404	4,581
Toluol and xylol ..	<i>n.a.</i>	<i>n.a.</i>	357	372	386	436
Solvent naphtha ..	<i>n.a.</i>	<i>n.a.</i>	175	48	25	80
Creosote ..	<i>n.a.</i>	<i>n.a.</i>	4,490	4,788	4,452	4,716
Carbolic acid ..	<i>n.a.</i>	<i>n.a.</i>	609	19	<i>n.a.</i>	<i>n.a.</i>
Anthracene ..	<i>n.a.</i>	<i>n.a.</i>	121	85	45	169
Ammonium sulphate ..	4,205	4,086	4,323	4,314	2,948	4,549
Naphthalene ..	331	520	650	657	587	667

*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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Anthracite—						
smalls and graded ..	1,021,590	904,775	914,149	685,313	428,955	536,065
large	267,193	197,766	190,118	138,488	99,549	86,856
other	399,021	505,682	514,972	293,746	283,902	269,923
Bituminous—						
smalls and graded ..	4,931,136	2,621,772	1,801,445	1,808,495	1,842,339	3,148,333
unscreened	1,101,316	1,019,677	858,174	273,213	178,211	221,632
large	2,711,336	1,933,703	1,315,767	504,404	302,594	593,076
other	1,800,958	1,358,591	1,432,064	519,025	339,303	286,850
Bunkers	2,128,499	1,486,428	1,201,585	840,162	633,503	317,372
Coke, gas	643,468	775,424	923,365	682,491	607,192	674,508
do. other	1,202,944	1,579,419	1,821,322	709,413	758,742	876,814
Manufactured fuel ..	264,231	320,186	225,320	148,167	134,310	93,002
Tar	166,609	114,660	89,250	73,297	55,146	69,645
Pitch	221,163	263,843	232,625	179,524	166,840	184,874
Gibraltar—						
Coal (bunkers) (b) ..	35,450	29,156	34,000	12,000	6,000	6,812
Malta—						
Coal (bunkers on merchant ships) (b) ..	295	700	1,298	218	34	—
Kenya—						
Coal (bunkers) (b) ..	—	8	—	14	63	66
Mauritius—						
Coal (bunkers) (b) ..	746	63	—	—	—	—
Nigeria—						
Coal (incl. bunkers) ..	99,976	98,393	101,761	98,248	74,561	26,780
Rhodesia and Nyasaland—						
Coal	39,787	34,554	158,319	419,854	157,192	175,026
Coke	28,451	62,188	113,784	60,885	62,881	70,869
Union of South Africa—						
Coal	652,858	609,695	592,654	648,220	503,838	933,739
do. (bunkers)	33,004	35,940	33,798	10,779	1,852	1,808
Coke	579	350	440	1,985	1,630	12,656
Tar and pitch	2,180	6,553	18,317	9,664	24,621	17,273
Canada—						
Coal	517,238	519,128	353,177	301,853	422,896	761,521
do. (bunkers) (c) ..	50,656	39,165	32,157	25,621	19,320	17,737
do. do. (a)	374,285	370,076	384,852	300,431	238,257	257,114
Lignite	12,031	11,378	672	419	112	16
Coke	99,573	111,191	102,875	102,163	113,009	111,392
Tar and pitch	1	11,961	9,642	6,101	42	8
British West Indies—						
Bermuda—						
Coal (bunkers) (b) ..	<i>n.a.</i>	541	360	—	—	—
Jamaica—						
Coal (bunkers) (b) ..	12,370	8,945	—	—	—	<i>n.a.</i>
Trinidad and Tobago—						
Coal (bunkers) (b) ..	409	108	78	614	35	73
Aden—						
Coal (bunkers) (b) ..	17,756	20,341	11,661	3,565	425	—
Ceylon—						
Coal (bunkers) (b) ..	13,420	18,781	8,519	2,274	713	324
Cyprus—						
Coal (bunkers) (b) ..	403	823	2,458	90	—	—

*For Ammonium sulphate, etc. see Nitrogen Compounds, pages 222-223.

(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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES (cont.)						
Hong Kong—						
Coal	2,067	234,162	14,392	3,028	539	9,583
Coke	—	149	127	942	955	839
India—						
Coal (by sea)	723,637	915,596	} 1,591,572	1,713,872	1,374,660	(c) 1,129,383
do. (by land)	(c) 744,908	888,610				
do. (bunkers—domestic produce) ..	133,947	52,382	n.a.	n.a.	n.a.	n.a.
do. (bunkers—foreign produce) ..	2,534	—	n.a.	n.a.	n.a.	n.a.
Coke (by sea)	20,321	23,366	} 71,635	78,786	35,310	(c) 41,516
do. (by land)	(c) 54	54				
Tar and pitch (by land)	1,766	2,527	274	200	832	(c) 3,199
Malaya—						
Coal	8	31	—	15	5	1
do. (bunkers) (a) ..	8,871	16,389	7,476	4,322	1,361	82
Coke	222	443	449	364	332	489
Tar	77	72	151	53	69	28
Australia (d)—						
Coal	281,456	193,813	545,101	836,336	645,249	1,087,844
do. (bunkers)	25,363	38,749	9,065	11,608	8,187	8,117
Coke	21,885	66,590	129,392	112,760	8,823	75,502
New Zealand—						
Coal	4	—	2,902	1	7,142	18,157
do. (bunkers)	646	670	—	579	—	—
Coke	54	132	517	895	2,761	5
Tar	—	24	3	1	—	2
Irish Republic—						
Coal (bunkers) (a) ..	606	1,684	1,301	1,268	311	320
Coal and coke	2,695	7,618	16,667	7,522	4,532	21,808
OTHER COUNTRIES						
Austria—						
Bituminous	10	13	134	8	35	26
Brown coal	45,841	53,978	47,706	39,821	37,093	37,119
Coke	11	815	3	15	23	38
Tar	1,051	1,224	164	64	28	1
Pitch	9,608	16,985	18,087	5,169	2,772	2,932
Belgium-Luxemburg						
E.U.—						
Coal	7,098,717	4,475,513	3,868,304	2,779,509	2,216,472	2,187,163
do. (bunkers) (b) ..	24,405	18,934	14,113	6,596	7,222	15,252
Coke	667,016	839,405	742,984	828,762	625,642	736,973
Briquettes	440,572	597,477	683,954	184,721	150,948	176,007
Brown coal briquettes	524	—	1	—	—	—
Tar	4,509	3,822	4,626	5,885	20,373	15,251
Pitch	4,627	15,128	14,679	31,043	27,330	55,823
Czechoslovakia—						
Coal	n.a.	r 759,000	r 764,000	1,482,000	1,565,000	2,160,000
Brown coal	n.a.	1,253,000	1,516,000	1,246,000	1,295,000	1,420,000
Coke	1,179,000	1,236,000	1,141,000	1,028,000	1,190,000	1,296,000
Denmark—						
Brown coal briquettes	14,699	20,629	28,577	8,289	1,939	n.a.
Tar and pitch	21,932	17,743	12,724	21,526	15,943	14,239

(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	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
France—						
Anthracite	21,536	20,961	17,119	12,412	9,962	14,794
Bituminous	12,275,078	6,758,055	5,986,792	4,694,838	2,938,227	1,381,364
Brown coal	11,352	1,696	871	—	295	465
Coke	403,682	212,631	198,999	136,369	117,084	103,966
Briquettes	38,899	34,039	21,817	18,802	16,802	26,207
Brown coal briquettes	1,524	68	132	39	175	168
Coal, coke and briquettes—						
Bunkers (domestic produce)	34,771	16,761	16,451	25,807	21,993	(a) 1,350
do. (foreign produce)	33,998	34,825	34,576	11,351	7,315	n.a.
Tar and pitch	8,509	26,722	34,412	63,207	55,219	34,945
Germany (Federal)—						
Coal	12,201,196	11,766,314	12,510,339	10,932,165	14,325,745	17,245,972
do. (bunkers) (a) ..	208,173	257,760	240,402	118,125	100,591	89,180
Brown coal	18,283	8,715	13,166	23,171	71,303	214,519
Coke	11,088,838	10,790,982	9,892,048	9,229,959	8,842,565	10,719,700
Coal briquettes	568,304	617,437	608,294	411,219	322,589	355,006
Brown-coal briquettes	1,626,694	1,605,905	1,639,501	1,629,584	1,483,242	1,302,463
Tar and pitch	82,235	82,657	110,591	162,114	185,779	265,348
Germany (East)—						
Coal	18,453	10,612	15,196	9,649	8,570	984
Coke	39,626	88,000	113,000	77,000	86,000	104,000
Brown coal briquettes..	5,137,000	4,392,000	4,678,000	6,092,000	6,249,000	6,239,000
Hungary—						
Coal	518,685	212,465	30,517	92,000	n.a.	63,341
Italy—						
Coal (incl. bunkers) ..	5,018	10,173	9,472	5,722	3,281	3,054
Coke	71,061	104,038	101,361	19,253	36,617	115,369
Tar	7,204	516	3,061	3,116	2,437	1,776
Pitch	35,685	29,757	17,738	25,543	21,435	22,806
Netherlands—						
Coal	902,125	938,565	972,327	1,296,324	1,776,649	2,131,176
do. (bunkers)	(b) 238,388	(b) 194,382	(b) 160,724	(a) 6,832	(a) 6,686	(a) 1,481
Brown coal	10,892	43,910	62,729	44,972	10,342	—
Coke	1,901,942	2,016,468	2,016,521	1,658,470	2,024,599	2,269,911
Briquettes	180,151	203,925	305,017	292,443	392,221	498,463
Brown coal briquettes ..	33,635	30,418	29,627	28,375	24,227	27,277
Tar	3,242	6,304	1,692	208	1,246	18,437
Pitch	18,131	10,750	22,923	25,655	16,120	6,281
Norway—						
Tar	1,757	2,360	1,464	971	—	2,631
Pitch	94	75	65	539	25	30
Poland—						
Coal	23,765,000	18,884,000	13,146,000	15,948,000	15,753,000	17,221,000
Brown coal	3,994,000	4,423,000	4,051,000	5,110,000	5,677,000	5,369,000
Coke	2,205,000	2,247,000	1,895,000	2,036,000	2,036,000	2,053,000
Portugal—						
Coal	6,411	138	96	183	110	67
do. (bunkers) (a) ..	2,131	2,261	2,365	1,758	1,710	367
Tar and pitch	90	75	75	82	69	11
Spain—						
Anthracite	70,947	51,009	18,951	—	—	n.a.
Bituminous (incl. bunkers)	68,171	138,569	110,470	51,445	45,745	n.a.
Other coal	13,404	13,265	15,596	18,571	16,342	n.a.
Coke	2,867	103,437	80,249	534	698	n.a.
Briquettes	—	—	—	—	—	n.a.
Tar and pitch	9	3	1	9	2	n.a.

(a) Bunkers for foreign ships only.

(b) Including imported coal.

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

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
(cont.)						
Spitzbergen—						
Coal (including bunkers)	608,789	680,782	721,518	685,078	656,213	870,000
Sweden—						
Coal	993	—	30	39	966	427
Coke	28,355	24,115	12,024	18,954	16,654	10,639
Tar, pitch, etc.	13,038	7,249	6,530	4,774	23	17
Switzerland—						
Coal	13,007	2,439	2,890	3,448	1,105	1
Coke	7,619	7,495	2,371	1,707	5,435	2,326
Briquettes	10,981	5,257	1,082	561	178	42
Tar and pitch	(a) 410	(a) 855	(a) 396	(a) 485	(a) 412	245
U.S.S.R.—						
Anthracite	1,414,700	1,562,700	1,747,300	1,861,100	1,810,000	1,792,200
Other coal	2,829,900	4,020,400	6,886,500	7,932,700	9,084,200	10,328,300
Coke	1,591,200	1,933,500	2,161,300	2,378,800	2,427,100	2,604,200
Pitch	170,500	229,200	203,100	204,300	162,300	190,600
Yugoslavia—						
Bituminous	38,920	51,783	29,686	65,697	95,332	104,655
Brown coal	78,484	84,927	92,985	60,962	55,537	6,177
Lignite	—	—	10,451	3,878	670	1,276
Briquettes	374	—	—	30	36	49
Pitch	113	93	7,463	10,200	7,679	11,203
Tar	6,604	17,477	19,294	733	—	—
Algeria—						
Coal	35,430	(c) 31,747	(c) 18,379	(c) 7,298	(c) 4,390	—
do. (bunkers)	139	65	59	—	—	—
do. do. (b)	25,544	11,570	13,174	3,422	2,703	1,103
Coke	—	1,639	1,709	7	18	51
Tar	255	18	6	—	—	—
Canary Islands—						
Coal	137	18	68	—	12	n.a.
Cape Verde Islands—						
Coal (bunkers) (b)	2,383	5,167	1,169	5	1	n.a.
Ceuta—						
Coal	844	855	868	485	76	n.a.
do. (bunkers) (b)	18,962	14,952	4,177	2,757	1,250	n.a.
Egypt—						
Coal (bunkers for foreign ships) (b)	1,118	—	140	187	n.a.	n.a.
Malagasy Republic—						
Coal (bunkers)	90	49	108	6	3	—
Morocco—						
Anthracite	281,599	210,395	251,672	211,621	206,566	185,091
Other coal	8,761	23	11,277	8,550	13,627	46
Briquettes	2,940	3,881	2,765	4,192	3,099	3,856
Mozambique—						
Coal (incl. bunkers)	23,382	36,141	35,149	46,480	43,189	58,599
Mexico—						
Coal and coke	1	200	—	325	20	334
Tar	23	—	41	1	—	—
United States—						
Anthracite	2,814,565	4,682,454	3,867,665	2,035,588	1,596,034	1,276,925
Bituminous	45,783,264	61,207,704	68,254,937	44,904,805	33,261,992	32,581,630
do. (bunkers)	397,148	445,506	374,429	320,106	326,612	274,832
Coke	473,665	585,462	734,146	350,729	410,912	313,634
Briquettes	94,905	95,939	77,200	49,072	29,873	18,862
Tar and pitch	44,796	51,077	51,925	59,634	27,628	107,106

(a) Including pitch from petroleum.

(c) Including briquettes.

(b) Foreign coal (see imports).

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

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Chile—						
Coal (including bunkers)	64,679	48,713	61,080	49,939	68,168	<i>n.a.</i>
Coke	2,432	6,629	3,446	3,149	<i>n.a.</i>	<i>n.a.</i>
Peru—						
Coal	300	5,021	26,329	2,363	52,235	26,998
Venezuela—						
Coal	—	—	—	2	237	—
Formosa—						
Coal (including bunkers)	46,473	105,020	29,753	29,833	89,432	<i>n.a.</i>
Indonesia—						
Coal (including bunkers)	46,751	11,365	40,417	19,105	14,403	6,946
Iran (a)—						
Coal	<i>n.a.</i>	267	792	249	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Coal	373,325	540,963	118,425	169,238	54,769	21,429
do. (bunkers)	128,966	98,590	36,268	10,170	6,555	12,838
Coke	37,282	16,193	2,160	3,240	14,147	6,639
Tar and pitch	3,105	18,053	12,608	19,026	7,909	18,907
Korea (South)—						
Anthracite	32,827	2	—	27,814	66,848	120,854
Lebanon—						
Coal	2,349	1,401	1,937	890	1,022	(b) 1,706
Coke	885	888	998	747	620	416
Briquettes	1,516	3,002	1,776	1,527	2,056	<i>n.a.</i>
Turkey—						
Coal	—	—	—	—	3,882	30,316
Vietnam (South)—						
Coal	163,799	—	411	—	—	<i>n.a.</i>

(a) Years ended March 20 following that stated.

(b) Including briquettes.

IMPORTS OF COAL, COKE AND BY-PRODUCTS*

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Coal	11,320,301	5,462,311	2,828,385	793,927	117,964	13,223
Coke	608	1,404	914	5,834	4,416	3,291
Manufactured fuel	34	17	—	—	4	6
Tar and pitch	4,462	4,419	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Channel Islands—						
Anthracite	101,724	130,728	103,954	128,803	102,827	116,473
Bituminous	192,647	181,093	165,191	160,873	147,094	130,950
Coke	13,799	6,062	26	351	237	4,167
Gibraltar—						
Coal and coke (b)	39,772	30,947	36,000	14,225	7,057	6,720
Malta—						
Coal (c)	17,584	6,652	6,758	7,222	2,796	2,079
Coke	218	132	271	246	614	591
Gambia—						
Coal, coke and patent fuel	2	—	3	7	103	—
Tar	2	12	9	11	38	22
Ghana—						
Coal, coke and patent fuel	121,261	86,606	109,295	105,668	79,058	36,870
Tar	2,368	1,300	1,390	1,084	717	519
Kenya—						
Coal (c)	24,629	42,535	32,244	35,082	35,985	38,900
Coke	571	2,373	2,961	2,634	354	2,384
Tar	26	33	20	7	6	6
Mauritius—						
Coal (c)	8,846	19,070	16,982	18,572	13,597	2,384
Coke	295	424	381	273	244	466
Tar	23	51	15	20	13	23
Nigeria—						
Coal, coke and patent fuel	(a) 263	1,094	835	920	711	901
Tar	699	525	601	804	715	1,343
Rhodesia and Nyasaland—						
Coal	70,993	86,605	51,789	45,981	48,588	56,765
Coke	—	—	—	(d) 284	(d) 99	(d) 134
Tar	52	243	100	82	678	571
St. Helena—						
Coal	44	204	381	64	67	45
Sierra Leone—						
Coal, coke and briquettes	30,278	23,690	25,913	30,491	15,670	11,199
Tar	231	154	144	239	211	140
Tanganyika—						
Coal	5,129	4,456	234	394	218	321
Coke	124	866	628	370	188	424
Tar	25	13	33	34	23	24
Uganda—						
Coal	26	22	33	39	32	40
Coke	260	223	139	2	17	82
Tar	413	161	311	19	18	13

*For ammonium sulphate, etc., see Nitrogen Compounds, pages 224-230.

(a) Excess of re-exports.

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

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

(d) Including patent fuel.

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

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES (cont.)						
Union of South Africa—						
Coal	94,806	40,163	49,820	54,962	26,899	1,818
Coke	5	13	26	12	4	3
Zanzibar—						
Coal	2,001	657	288	28	111	n.a.
Canada—						
Anthracite	2,348,655	2,244,410	1,712,300	1,381,951	1,361,166	1,098,667
do. dust	14,294	28,471	6,894	7,351	70,895	59,786
Bituminous	14,888,103	17,545,823	15,283,528	11,242,029	11,030,876	10,681,129
do. (a)	374,285	370,076	384,852	300,431	238,257	257,114
Brown coal	1,382	1,732	1,934	924	—	—
Briquettes	110,907	113,146	65,452	37,339	21,894	13,864
Coke	315,308	445,328	579,790	272,616	341,681	265,810
Tar	9,310	2,726	6,083	3,426	1,798	2,155
Pitch	66,780	r 54,417	62,027	55,168	51,684	71,653
British Guiana—						
Coal	1,273	350	568	495	152	224
Coke	86	83	77	98	42	42
Patent fuel	78	51	24	25	70	20
Tar	n.a.	352	400	238	186	223
British West Indies—						
Bahamas—						
Coal	4	11	—	60	2	—
Barbados—						
Coal, coke, and patent fuel	1,255	957	1,048	973	715	810
Bermuda—						
Bituminous (b)	838	2,025	1,042	1,098	10	10
Grenada—						
Coal	—	1	—	—	1	n.a.
Coke	3	1	2	3	2	n.a.
Jamaica—						
Coal (b)	16,661	5,348	984	400	235	255
Coke	762	635	915	804	575	406
Tar	71	68	44	43	62	28
Leeward Islands—						
Coal, coke and patent fuel	1,404	1,817	r 7	208	13	n.a.
St. Lucia—						
Coal	1	34	57	5	13	n.a.
Tar	5	1	2	6	6	n.a.
St. Vincent—						
Coal	4	9	2	6	4	n.a.
Trinidad and Tobago—						
Coal (b)	1,841	(c) 177	1,066	827	1,160	1,289
Coke	199	71	65	153	304	89
British Honduras—						
Coal and coke	60	32	14	—	19	24
Falkland Islands—						
Coal	421	516	6	—	26	427
Coke	42	827	173	95	75	243
Aden—						
Coal (b)	28,290	25,048	13,747	—	1,319	1,452
Coke	—	(c) 3	24	1	—	—

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

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

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

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES (cont.)						
Ceylon—						
Coal (c)	184,287	143,811	276,572	172,121	173,345	256,077
Coke	4,857	3,843	2,459	2,730	1,238	240
Tar	53	73	98	64	288	113
Cyprus—						
Coal (c)	501	2,828	822	645	648	417
Coke	822	1,460	407	27	—	165
Tar and pitch	14	15	2	4	2	—
Hong Kong—						
Coal	246,280	435,661	246,108	199,303	205,086	226,369
Coke	3,860	7,264	5,715	5,763	5,226	6,076
India—						
Coal	160	405	507	1,329	1,832	(b) 2,050
Coke	2,000	1,982	123	1,070	20	(b) —
Tar and pitch	314	352	5,674	87	34	(b) 2,543
Malaya—						
Anthracite	25,594	19,302	18,634	15	27,623	23,931
Bituminous (c)	41,569	60,728	70,871	1,875	1,100	9,669
Coke	4,577	5,536	4,376	2,780	4,656	5,805
Tar	413	320	230	473	492	150
Pakistan—						
Coal and coke	1,063,000	1,328,000	1,316,000	1,396,666	955,979	2,090,833
Tar and pitch	(b) 729	103	4,484	2,536	3,380	6,039
Australia (a)—						
Coal	(d) 4,776	4,117	6,191	9,335	7,526	7,678
Coke	5,900	3,444	8,206	9,778	6,845	8,802
Tar and pitch	114	82	4,770	2,790	3,098	4,602
Fiji—						
Coal	17,629	15,692	6,098	3,262	10,083	7,087
Coke	227	315	165	218	183	211
Tar	24	169	22	74	158	254
New Guinea (a)—						
Coal and coke	(£2,236)	35	56	27	35	26
New Zealand—						
Coal	7,129	12,209	12,370	116	82	132
Coke	254	310	293	—	57	55
Tar	5,963	11,514	10,860	10,528	6,764	5,499
Pitch	1,224	997	1,540	975	980	722
North Borneo—						
Coal and coke	79	294	53	79	84	33
Papua (a)—						
Coal and coke	650	62	49	33	51	25
Sarawak—						
Coal and coke	15	20	14	14	27	171
Tar	96	108	137	136	197	144
Western Samoa—						
Coal and coke	9	98	6	7	126	155
Irish Republic—						
Anthracite	70,535	56,617	41,953	41,966	61,496	54,979
Bituminous (c)	1,730,787	1,356,181	1,159,610	1,312,262	1,512,014	1,595,265
Coke	26,296	16,718	14,399	6,540	6,801	7,248
Patent fuel	80,832	58,555	33,731	12,467	4,044	2,524
Tar	12,511	14,972	16,724	17,892	8,609	5,215

(a) Years ended June 30 of that stated.

(b) Years ending March 31 following that stated.

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

(d) Excess of re-exports.

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

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
Austria—						
Coal	4,039,900	4,314,199	4,489,481	3,664,557	3,223,949	3,661,335
Brown coal	188,629	237,415	305,424	237,181	118,564	66,233
Coke	412,754	430,510	529,579	593,855	714,939	887,590
Briquettes	554,497	553,694	601,742	536,947	481,691	537,741
Tar, pitch, etc.	3,239	5,045	5,341	4,739	11,511	6,339
Belgium-Luxemburg						
E. U.—						
Coal	3,809,594	5,041,838	5,484,679	5,557,903	5,027,969	4,061,418
do. coke	3,597,422	3,660,885	3,859,965	3,625,196	3,641,645	4,071,186
do. briquettes	45,028	74,599	93,377	106,777	103,154	127,624
Brown coal	392	415	2,027	3,298	304	—
do. do. coke	130	232	369	1,223	34	36
do. do. briquettes	243,552	232,906	247,855	254,243	213,410	221,524
Tar	12,065	13,900	12,637	8,580	7,836	22,441
Pitch	46,115	72,667	69,248	31,002	2,735	555
Czechoslovakia—						
Coal	<i>n.a.</i>	3,608,000	2,256,000	2,535,000	2,318,000	2,364,000
Denmark—						
Coal	5,015,661	3,280,582	3,087,659	2,639,299	2,809,220	3,894,047
Coke	2,247,427	2,195,050	1,280,325	1,484,467	1,125,538	1,320,862
Briquettes	25,038	24,234	17,111	20,029	9,241	8,359
Brown coal briquettes	231,534	176,929	119,420	196,044	129,258	168,444
Tar	—	8	66	42	90	79
Pitch	139	149	242	234	275	265
Faroe Islands—						
Coal	7,136	4,108	1,425	1,422	1,257	971
Finland—						
Anthracite	132,111	160,492	192,688	246,105	191,651	204,920
Other coal	2,043,644	1,963,870	2,365,443	1,844,763	2,335,229	2,685,505
Coke	424,343	507,118	452,949	345,446	280,355	225,849
Tar	512	—	142	—	175	92
France—						
Anthracite	1,691,432	2,126,937	2,442,415	2,269,912	1,925,654	1,842,949
Bituminous	6,287,565	11,224,544	12,928,824	8,333,720	7,585,886	8,047,083
Lignite	377	1,831	1,395	922	169	79
Coke	4,625,563	4,637,778	5,006,125	4,388,705	4,014,797	4,972,098
Coal briquettes	456,207	472,677	864,146	456,437	418,416	418,812
Brown-coal briquettes	576,813	538,819	569,499	589,159	553,429	379,278
Tar and pitch	395,913	373,059	419,877	426,521	375,098	419,092
Germany (Federal)—						
Coal	15,640,814	18,131,033	21,087,887	15,926,954	8,248,236	6,583,296
Brown coal	890,165	990,743	937,762	895,505	982,526	1,061,554
Coke	523,523	793,122	476,825	233,124	434,502	530,961
Coal briquettes	106,697	303,966	163,772	57,652	131,505	214,434
Brown-coal briquettes	26,115	18,886	20,884	57,704	62,500	85,218
Tar and pitch	56,815	143,642	59,221	85,420	78,371	53,899
Germany (East)—						
Coal	6,238,000	5,552,000	5,662,000	7,280,000	7,956,000	7,901,000
Brown coal	4,070,000	4,503,000	4,084,000	5,166,000	5,759,000	5,444,000
Coke	2,572,000	2,235,000	2,647,000	2,413,000	2,559,000	2,487,000
Greece—						
Anthracite	23,619	44,622	54,392	24,953	17,620	8,765
Other Coal	278,109	169,967	200,307	189,933	146,680	175,926
Coke	16,100	17,202	22,723	31,039	24,684	25,010
Tar	831	385	302	688	721	<i>n.a.</i>
Hungary—						
Coal	780,549	827,911	2,388,523	1,124,149	1,207,493	1,408,160
Coke	1,217,344	1,067,251	1,085,358	1,127,718	1,045,519	1,025,560
Pitch	2,870	3,770	13,699	11,832	2,993	3,406
Iceland—						
Coal	60,364	42,017	33,291	29,811	29,806	21,136
Coke	2,034	3,321	1,499	3,054	2,182	2,256
Tar	76	102	120	103	111	16

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

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Italy—						
Anthracite	1,049,636	1,002,693	1,145,821	} 8,658,672	{ 949,203	} 9,367,319
Bituminous	8,904,990	9,344,070	10,027,813				{ 6,789,150
Lignite	31,446	31,072	21,128	50,173	13,890	18,832
Coke	56,663	26,263	113,487	257,470	163,994	247,405
Briquettes	181,054	242,687	262,450	194,550	236,429	321,959
Tar	635	2,495	6,370	4,473	2,529	465
Pitch	940	244	480	101	212	600
Netherlands—						
Coal	<i>a</i> 7,709,628	<i>a</i> 8,556,655	<i>a</i> 8,692,925	6,983,495	6,404,506	6,986,864
Brown coal	13,086	—	—	8,518	10,244	180,280
Coke	428,530	429,761	492,656	289,316	405,990	365,316
Briquettes	482,509	449,439	317,905	176,795	131,744	143,717
Brown-coal briquettes	306,163	304,923	300,756	301,312	261,490	246,445
Tar	20,322	18,089	16,164	14,437	26,452	29,995
Pitch	9,883	13,857	14,822	17,697	7,675	18,410
Norway—						
Coal (<i>b</i>)	681,439	616,279	489,829	397,480	263,106	310,814
Coke	456,902	718,685	569,379	501,580	598,680	735,568
Briquettes	9,195	19,157	378	2,513	1,006	122
Tar and pitch	10,239	6,475	7,195	11,100	32,971	43,832
Poland—						
Coal	—	—	340,000	618,000	881,000	764,000
Brown-coal briquettes	—	15,000	203,000	492,000	1,292,000	403,000
Portugal—						
Anthracite	15,908	12,700	15,251	9,991	6,049	8,141
Other coal	461,305	435,287	508,863	355,851	285,994	336,391
Coke	20,306	19,116	22,218	24,687	33,718	40,950
Briquettes	6,315	5,078	3,103	2,710	650	245
Tar and pitch	7,330	8,683	6,295	4,710	4,150	3,206
Roumania—						
Coal	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	149,100	188,800	409,700
Coke	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	606,400	688,700	645,400
Spain—						
Anthracite	985	—	26	3,751	7,818	<i>n.a.</i>
Bituminous	504,697	324,642	615,683	1,085,122	815,139	303,000
Coke	109,393	3,518	2	—	5,997	<i>n.a.</i>
Briquettes	—	—	—	—	—	<i>n.a.</i>
Tar and pitch	62,450	88,951	62,281	59,420	48,249	37,000
Sweden—						
Anthracite	46,241	73,495	61,121	29,977	31,535	33,596
Other coal	3,093,000	2,463,000	2,630,000	1,657,000	1,700,469	1,864,455
Coke	2,473,000	2,789,000	2,368,000	1,583,000	1,491,078	1,794,990
Briquettes	162,475	104,975	36,353	62,898	23,991	14,381
Tar, pitch, etc.	11,667	10,979	9,940	10,601	14,151	28,207
Switzerland—						
Coal	1,802,640	2,215,745	2,383,739	1,645,461	1,648,646	1,921,852
Lignite	562	754	786	307	610	544
Coke	621,744	717,521	723,164	493,860	471,705	517,548
Briquettes	320,527	336,766	321,514	302,311	234,507	227,343
Tar and pitch	(<i>c</i>) 78,024	(<i>c</i>) 84,735	(<i>c</i>) 80,570	(<i>c</i>) 88,477	(<i>c</i>) 100,581	21,010
U.S.S.R.—						
Coal	8,526,700	6,289,400	3,369,100	3,765,600	4,314,800	4,700,000
Coke	443,300	591,400	365,100	667,300	620,100	647,600
Yugoslavia—						
Anthracite	67,191	96,487	107,104	96,633	101,904	134,857
Other coal	920,139	1,303,509	1,594,481	976,268	1,171,206	1,226,643
Coke	94,102	42,779	19,532	45,148	237,727	298,911
Coke dust	21,732	133	—	10,513	—	1,055
Tar and pitch	497	394	642	2,474	5,515	4,063

(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	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Algeria—						
Coal	307,528	296,135	483,250	504,462	406,818	328,045
Coke	95	111	253	265	197	211
Briquettes	3,793	4,083	4,568	4,629	3,435	3,659
Tar and pitch	997	1,417	4,514	7,090	8,478	15,438
Angola—						
Coal	r 43,910	r 22,016	r 53,232	15,207	17,082	44,566
Coke	1,618	1,547	4,558	2,239	2,609	1,594
Cameroun—						
Coal, coke, etc... .. .	232	568	997	527	174	733
Canary Islands—						
Coal	21,928	21,515	28,590	21,937	24,577	n.a.
Cape Verde Islands—						
Coal (a)	8,317	—	21	1,505	665	n.a.
Ceuta—						
Coal (a)	38,090	34,012	23,407	14,872	6,589	n.a.
Congo Republic—						
Coal	166,455	127,507	135,480	149,363	138,619	n.a.
Coke	97,101	105,479	108,969	76,884	68,029	n.a.
Briquettes	27,170	46	1	402	664	n.a.
Pitch	324	244	361	248	191	n.a.
Tar	305	795	208	263	1,173	n.a.
Egypt—						
Coal	100,783	64,147	118,086	74,892	42,879	44,673
Coke	9,009	12,707	65,494	202,955	43,885	127,774
Briquettes	591	10,494	650	26	—	104
Tar and pitch	95	—	—	12	289	82
Equatorial African Community—						
Coal, coke, briquettes	2,981	64	152	127	230	229
Ethiopia (b)—						
Coal	11,064	10,644	92	8,614	5,571	8,681
French Somaliland—						
Coal	709	305	69	175	12	60
French West Africa—						
Coal	167	3,179	479	} (c)	(c)	(c)
Briquettes	28,815	31,900	99			
Coke	684	838	476			
Ivory Coast—						
Coal and briquettes	(d)	(d)	(d)	51	120	59
Coke	(d)	(d)	(d)	169	114	128
Malagasy Republic—						
Coal and briquettes	9,445	3,786	4,266	10,949	12,591	17,362
Coke	74	29	101	44	32	34
Tar and pitch	139	128	140	70	93	56
Melilla—						
Coal	17,073	17,908	22,457	11,129	6,988	n.a.
Morocco—						
Coal	107,649	96,639	(e) 70,045	78,158	63,329	81,391
Coke	12,652	4,710	(e) 6,773	8,525	9,470	8,508
Tar	6,147	3,543	25	37	1	3
Pitch	1,212	1,143	704	2,204	1,259	1,303
Mozambique—						
Coal	239,343	258,172	273,490	307,521	276,323	288,210
Coke	774	573	660	1,081	1,026	1,025
Tar, pitch and asphalt.. .. .	3,176	3,893	5,242	8,939	6,052	4,716
Reunion—						
Coal and briquettes	344	193	254	3,007	84	n.a.

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

(b) Years ended September 10 of that stated.

(d) See under French West Africa.

(c) See under Ivory Coast and Senegal.

(e) Morocco (Southern) only.

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

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Senegal—						
Coal and briquettes ..	(d)	(d)	(d)	82	2,131	112
Coke	(d)	(d)	(d)	413	399	234
Sudan—						
Coal	46,396	27,017	32,227	47,679	31,113	10,162
Coke	2,594	—	—	—	n.a.	n.a.
Tar	10	46	30	204	n.a.	n.a.
Togo—						
Coal and briquettes ..	41	107	7	—	—	—
Tunisia—						
Coal	36,358	33,902	76,622	19,625	23,360	33,467
Coke	9,425	13,239	10,635	16,481	5,366	10,012
Tar and pitch	756	11	180	288	7	9
Cuba—						
Coal	31,884	19,985	141,162	47,784	n.a.	n.a.
Coke	46,797	38,285	39,893	40,647	n.a.	n.a.
Tar and pitch	99	161	152	383	n.a.	n.a.
Dominican Republic—						
Coal, coke, briquettes, etc.	510	938	280	1,427	628	384
French West Indies—						
Guadeloupe—						
Coal	8	1,160	1,125	888	n.a.	n.a.
Martinique—						
Coal	1,706	848	554	15	n.a.	n.a.
Greenland—						
Coal	16,906	10,958	13,177	9,464	7,556	17,485
Guatemala—						
Coal	167	124	403	460	n.a.	n.a.
Coke	65	107	53	89	n.a.	n.a.
Honduras—						
Coal	190	102	206	166	147	128
Coke	11	27	19	21	4	—
Mexico—						
Coal	40,797	53,098	55,677	39,302	56,632	47,137
Coke	10,098	4,608	3,171	3,026	3,522	6,046
Tar	228	260	324	237	209	1,253
Nicaragua—						
Coal	15	19	21	19	15	16
Coke	89	47	5	49	42	72
Panama Republic—						
Coal	257	273	200	105	150	30
Salvador—						
Coal	2,358	127	179	138	176	111
Coke	161	285	130	110	130	119
Tar	93	87	50	79	56	57
St. Pierre and Miquelon—						
Coal	9,429	9,133	12,200	12,133	9,302	10,920
United States—						
Anthracite	152	41	1,016	3,896	2,351	1,318
Bituminous	206,301	226,546	214,869	166,187	134,532	123,093
Lignite	79	80	—	40	—	10
Slack and culm	94,645	90,964	112,369	107,827	200,033	109,482
Coke	112,805	116,924	105,313	108,497	110,049	111,750
Briquettes	—	284	759	164	165	5,961
Tar and pitch	67,439	47,230	16,984	21,649	25,337	21,088
Argentina—						
Coal	1,158,648	1,330,120	1,137,247	1,331,941	1,300,305	1,379,851
Coke	95,706	151,756	133,766	101,600	68,055	69,092
Tar and pitch	159	117	299	1,238	526	391

(d) See under French West Africa.

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

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Bolivia—						
Coal and coke	4,293	10,176	5,085	1,333	572	n.a.
Brazil—						
Coal	1,102,676	878,712	879,900	557,602	624,458	1,018,764
Coke	5,033	—	47,079	45,256	65,999	29,769
Chile—						
Anthracite	618	100	—	—	n.a.	n.a.
Other coal	136,290	32,912	283,760	98,095	23,506	n.a.
Coke	645	837	866	569	632	n.a.
Tar and pitch	4,739	5,051	3,513	5,529	8,776	n.a.
Colombia—						
Coal	384	80	—	5	204	1
Coke	11	—	48	83	40	30
Tar	5	—	—	—	—	—
Peru—						
Coal	5	67	20	—	10	—
Coke	1,082	834	641	655	690	1,828
Tar	19	89	68	67	49	10
Surinam—						
Coal	2,427	13	10	6	88	32
Uruguay—						
Coal	90,332	99,092	93,370	100,174	49,719	74,892
Coke	1,552	3,152	1,963	1,891	1,474	3,269
Venezuela—						
Coal	791	1,233	1,118	684	131	97
Burma—						
Coal	189,882	236,532	262,930	335,981	402,527	336,536
Coke	9,209	13,184	15,876	5,396	11,917	10,790
Formosa—						
Coke	3,371	3,562	4,474	4,375	4,884	n.a.
Tar and pitch	2,229	2,547	2,031	2,643	2,432	n.a.
Indonesia—						
Coal	33,009	42,423	36,741	20,830	41,655	34,281
Coke	214	827	4,264	150	3,624	254
Tar	134	425	822	98	147	212
Iraq—						
Coal	2,295	781	1,465	437	n.a.	n.a.
Coke	895	600	290	1,660	n.a.	n.a.
Tar and pitch	1,161	844	266	70	n.a.	n.a.
Israel—						
Anthracite	17,350	26,422	27,640	20,969	13,990	n.a.
Other coal	1,882	897	1,297	596	10,120	n.a.
Coke	—	—	—	3,801	6,409	n.a.
Japan—						
Anthracite	363,175	457,158	724,749	497,460	511,210	814,411
Other coal	2,553,548	3,303,660	5,605,450	4,074,973	4,380,232	7,346,876
Tar and pitch	288	43	23,790	4,694	9,323	25,498
Korea (South)—						
Coal	1,048,417	957,623	729,669	760,106	370,207	35,146
Lebanon—						
Coal	861	2,558	4,046	1,999	4,410	(a) 1,083
Coke	2,263	1,762	1,423	3,101	2,376	4,036
Briquettes	5,897	7,744	—	—	2,740	n.a.
Philippine Republic—						
Coal	—	136	1	155	49	23
Coke	6,090	7,573	5,643	6,353	8,114	8,849
Tar	376	288	239	272	193	156
Portuguese India—						
Coal	3,609	3,366	11,340	n.a.	n.a.	n.a.
Coke	49	50	59	n.a.	n.a.	n.a.
Syria—						
Coal	1,949	1,385	1,522	906	1,533	274

(a) Including Briquettes.

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

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Syria (<i>cont.</i>)—						
Coke	717	784	1,104	1,408	1,829	2,285
Briquettes	1,618	2,617	1,881	1,672	1,762	1,859
Thailand—						
Coal	36,809	9,100	15,847	12,450	11,536	10,860
Coke	815	1,071	2,389	1,658	1,399	2,618
Tar	70	45	55	3	—	37
Vietnam (South)—						
Coal	25,731	59,950	47,938	63,469	15,333	10,553
French Polynesia—						
Coal	1,772	984	9	1,009	—	—
New Caledonia—						
Coal	163,461	264,048	180,859	160,742	144,570	136,941
Coke	<i>n.a.</i>	<i>n.a.</i>	174,042	67,956	32,084	128,554

COBALT
PRODUCTION OF COBALT ORE
(Metal content)

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Northern Rhodesia (a) ..	662	1,021	1,357	1,644	2,027	1,862
Uganda (b)	—	140	500	500	660	<i>n.a.</i>
Canada (c)	1,482	1,570	1,751	1,210	1,406	1,487
Australia (d)	12	12	12	15	14	14
OTHER COUNTRIES						
Finland (e)	1,263	1,375	1,620	1,898	1,908	<i>n.a.</i>
Congo Republic (f) ..	8,432	8,945	8,061	6,398	8,298	8,092
Morocco	744	632	447	910	1,188	1,251
United States	1,165	1,605	1,850	2,162	1,337	<i>n.a.</i>
New Caledonia	—	—	—	128	180	—
TOTAL	r 13,760	r 15,300	r 16,000	r 15,000	17,000	16,000

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

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

METAL PRODUCTION OF COBALT

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Northern Rhodesia ..	411	822	1,073	1,048	1,141	961
OTHER COUNTRIES						
France	301	368	258	r 395	301	525
Germany (Federal) (a) ..	881	865	853	978	1,380	1,501
Norway (c)	203	242	274	319	384	470
Congo Republic	4,993	5,029	5,525	4,717	5,926	5,530
United States (b)	1,585	2,216	1,954	1,624	1,099	688

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

Year	Long tons	Year	Long tons
1955 ..	722	1958 ..	580
1956 ..	694	1959 ..	605
1957 ..	662	1960 ..	699

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

EXPORTS OF COBALT, ETC.

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Cobalt (a)	23	31	877	30	52	42
Cobalt oxide	255	249	314	394	316	244
Other compounds	407	404	534	557	684	648
Rhodesia and Nyasaland—						
Cobalt	445	724	1,078	934	1,329	1,176
Cobalt alloys	531	384	170	—	27	131
Canada—						
Ore (Co content)	—	7	7	—	—	—
Cobalt	689	640	962	457	304	377
Cobalt alloys	6	5	6	4	1	1
Cobalt oxides and salts	732	576	277	233	491	525
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Cobalt (b)	1,686	1,078	1,110	1,091	2,325	2,449
France—						
Ingots and scrap	7	19	34	18	62	87
Cobalt salts	4	1	4	1	6	18
Germany (Federal)—						
Cobalt (c)	362	286	381	453	796	788
Cobalt oxide	n.a.	n.a.	n.a.	108	65	50
Norway—						
Cobalt	n.a.	n.a.	n.a.	n.a.	314	382
Sweden—						
Cobalt	—	7	—	—	3	17
U.S.S.R.—						
Cobalt	122	137	145	206	196	214
Congo Republic—						
Cobalt	4,937	4,449	4,828	5,139	6,311	(d) 3,030
Cobalt-copper ingots	7,377	9,730	7,094	4,274	5,162	(d) 4,121
Morocco—						
Ore	7,223	6,298	4,727	8,196	10,845	12,027
United States—						
Ore and metal (c)	1,704	1,363	477	785	310	816

(a) Including alloys.

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

(c) Including alloys and scrap.

(d) January to June only.

IMPORTS OF COBALT, ETC.

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Cobalt	930	734	738	707	927	1,653
Cobalt alloys	224	134	76	49	28	18
Cobalt oxide	793	591	386	317	561	808
Canada—						
Ore	17	1	(800 lbs.)	—	—	—
Cobalt oxide	4	5	5	7	11	9
Hong Kong—						
Cobalt oxide	63	31	2	34	36	37
Australia (a)—						
Cobalt ingots, etc.	21	34	43	38	58	83
Cobalt oxide	10	21	11	36	15	9
Cobalt salts	27	55	21	51	76	69
New Zealand—						
Cobalt salts	260	280	291	315	341	330
OTHER COUNTRIES						
France—						
Ore	5,103	4,673	3,801	6,593	6,920	6,678
Ingots and scrap	21	74	44	18	49	172
Cobalt oxide	37	55	58	141	85	115
Germany (Federal)—						
Ore	269	46	—	1	—	—
Cobalt (b)	117	227	227	414	338	857
Cobalt oxide	n.a.	n.a.	n.a.	185	176	236
Italy—						
Cobalt (b)	64	98	102	91	182	453
Portugal—						
Cobalt oxide	3	—	1	3	5	2
Sweden—						
Cobalt	148	110	129	79	158	321
Yugoslavia—						
Cobalt	2	4	4	19	29	43
Mexico—						
Cobalt oxide	n.a.	22	31	12	30	36
United States—						
Ore (c)	2,522	2,136	903	—	345	2,885
Go content	1,100	901	371	—	16	140
Cobalt metal	6,935	5,792	7,220	r 6,490	8,968	4,822
Cobalt oxide	479	370	289	374	695	651
Cobalt salts	161	178	163	105	124	103
Argentina—						
Cobalt salts	87	13	29	28	46	36
Brazil—						
Cobalt oxide	11	24	24	23	24	45
Japan—						
Ore	—	4	25	—	—	1
Ingots, slabs and grains	154	470	474	281	913	1,130
Cobalt oxide	100	140	122	132	197	230

(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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom	16	9	11	13	11	16
Kenya (<i>f</i>)	—	600	1,500	1,400	1,400	1,200
Northern Rhodesia (<i>d</i>) .. .	352,956	397,736	428,851	393,814	534,673	567,255
Southern Rhodesia	1,060	1,725	2,881	7,527	10,729	13,506
South West Africa	21,038	27,864	26,899	28,000	31,000	20,000
Tanganyika	580	1,140	1,052	1,581	1,081	1,254
Uganda	—	2,884	10,467	10,000	10,500	13,100
Union of South Africa	43,963	45,762	45,501	48,763	49,729	45,399
Canada (<i>g</i>)	291,066	316,839	320,633	308,137	352,919	391,414
Cyprus (<i>e</i>)	23,374	35,265	38,996	32,691	35,695	34,907
India	7,880	8,208	8,404	r 8,502	7,900	8,705
Australia	47,312	54,547	59,255	r 75,715	94,950	109,767
Fiji	—	n.a.	100	n.a.	n.a.	n.a.
TOTAL	789,200	892,600	944,600	r 916,000	1,131,000	1,207,000
Irish Republic	—	—	—	652	4,229	(b) 6,000
OTHER COUNTRIES						
Austria	2,654	6,961	2,341	2,467	2,474	1,993
Bulgaria	(i) 6,200	5,200	7,100	7,000	10,800	(i) 13,700
Finland (<i>d</i>)	21,165	20,713	25,615	28,411	28,900	28,000
France (<i>d</i>)	26	17	7	350	262	307
Germany—						
Federal Republic	1,192	962	1,073	r 1,325	1,753	1,750
East (<i>b</i>)	21,000	21,000	16,300	18,000	20,000	20,000
Italy	1,382	2,128	3,482	3,637	3,518	2,948
Norway	13,767	14,722	14,988	15,626	14,132	15,147
Poland (<i>c</i>)	5,400	7,000	7,400	(b) 7,900	(b) 8,800	(b) 10,400
Portugal	537	952	553	731	708	517
Spain (<i>b</i>)	16,000	17,000	r 20,000	r 20,000	20,000	20,000
Sweden	15,424	16,461	17,790	18,262	16,820	16,425
U.S.S.R. (<i>b</i>)	350,000	400,000	400,000	430,000	430,000	450,000
Yugoslavia	28,659	31,328	32,931	34,679	34,054	32,751
Algeria	66	r 187	r 487	r 449	59	108
Angola	963	1,444	1,678	1,506	1,726	1,882
Congo Republic (<i>h</i>)	231,394	246,016	238,418	233,810	277,639	295,955
Mauritania	—	—	—	—	41	n.a.
Morocco	735	r 761	620	r 1,027	1,166	1,240
Upper Volta	136	96	—	—	—	—
Cuba	17,417	14,327	13,666	12,493	8,877	(b) 7,000
Haiti	—	—	—	—	—	1,300
Mexico (<i>d</i>)	53,812	53,998	59,643	63,937	56,369	59,377
United States (<i>d</i>)	891,580	985,854	970,410	874,401	736,470	964,437
Bolivia (<i>a</i>)	3,442	4,373	3,857	2,741	2,650	2,235
Brazil (<i>i</i>)	650	790	1,200	1,200	1,300	1,300
Chile (<i>d</i>)	426,673	482,004	477,952	459,755	537,597	523,984

(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): 1955—22,200; 1956—26,300; 1957—26,800; 1958—22,800; 1959—25,200; 1960—n.a.

(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	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Ecuador	15	r 12	r 15	r 47	132	98
Peru	42,718	45,506	56,271	52,772	47,453	179,975
Burma (b)	150	130	130	130	150	140
China (a) (b)	10,000	12,000	15,000	30,000	40,000	40,000
Formosa (c)	1,295	1,795	2,010	1,651	1,708	n.a.
Japan	71,845	77,230	80,417	80,212	83,902	87,849
Korea (South) (b)	600	700	450	350	250	300
Philippine Republic	17,185	26,537	39,744	46,287	48,739	43,315
Turkey	(a) 23,423	(a) 24,372	(a) 24,016	(a) 22,174	(a) 23,468	(b) 28,700
TOTAL	2,300,000	2,500,000	2,500,000	2,500,000	2,500,000	2,900,000
WORLD'S TOTAL	3,100,000	3,400,000	3,500,000	3,400,000	3,600,000	4,100,000

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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Northern Rhodesia ..	342,234	383,555	416,573	375,146	531,332	558,859
Uganda	—	150	7,465	10,831	11,943	14,515
Union of South Africa ..	42,641	43,466	42,374	47,684	48,074	45,399
Canada (a)	253,178	279,421	283,362	285,200	326,839	355,319
India	7,281	7,628	7,848	7,840	7,642	8,848
Australia	37,439	49,030	50,403	64,608	68,494	71,037
TOTAL	682,773	763,250	808,025	791,309	994,324	1,053,977
OTHER COUNTRIES						
Albania	924	567	910	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Austria (b)	9,571	9,900	8,755	9,397	10,358	11,575
Bulgaria	(g) 4,000	4,500	4,981	6,025	6,440	(g) 10,000
Finland	21,949	22,113	25,419	30,244	32,090	30,481
Germany—						
Federal Republic ..	51,900	54,400	63,300	69,000	63,100	61,400
East (e)	25,000	25,000	20,000	20,000	20,000	20,000
Italy	914	382	131	104	361	<i>n.a.</i>
Norway	13,520	15,190	15,578	17,291	18,945	21,273
Poland	15,474	19,996	19,612	17,095	17,200	21,400
Portugal	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	4,281	4,853	5,191
Spain	5,783	6,197	5,892	4,960	6,835	8,072
Sweden	18,089	16,672	19,171	19,882	24,930	21,363
U.S.S.R. (c) (e) ..	350,000	400,000	400,000	430,000	430,000	4,500,000
Yugoslavia	27,814	28,920	33,202	33,140	34,694	35,165
Angola	769	1,273	1,600	1,369	1,396	1,400
Congo Republic ..	231,394	246,016	238,418	233,810	277,639	295,955
Mexico	42,585	46,508	55,412	59,919	54,558	57,912
United States (d) ..	987,970	1,099,421	1,051,915	954,511	751,603	1,101,454
Bolivia	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	542	<i>n.a.</i>
Chile	399,368	452,014	443,515	430,492	504,412	496,996
Peru	31,127	30,588	40,486	37,859	33,950	162,185
China (e)	10,000	12,000	15,000	30,000	40,000	40,000
Formosa	1,156	1,481	1,681	1,637	1,774	1,752
Japan (f)	79,760	91,019	107,251	101,769	152,396	184,371
Korea (South)	323	893	780	791	736	994
Turkey	23,423	24,372	24,016	22,174	23,468	25,806
TOTAL	2,400,000	2,600,000	2,600,000	2,500,000	2,500,000	3,100,000
WORLD'S TOTAL ..	3,100,000	3,400,000	3,400,000	3,300,000	3,500,000	4,100,000

(a) Copper content of blister and anode copper.

(b) Including secondary metal.

(c) May include secondary metal.

(d) In addition, secondary metal was recovered as follows (long tons): 1955—883,039; 1956—830,950; 1957—751,685; 1958—711,954; 1959—830,866; 1960—778,025.

(e) Estimated.

(f) In addition, secondary metal was recovered as follows (long tons): 1955—31,767; 1956—33,144; 1957—32,726; 1958—20,234; 1959—38,512; 1960—59,818.

(g) United States Bureau of Mines' estimate.

EXPORTS OF COPPER, ETC.

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Bars and ingots	15,393	32,091	35,325	55,539	77,403	49,059
Scrap	5	433	232	418	203	175
Plates, sheets, etc. .. .	8,532	7,158	10,505	10,808	9,456	8,045
Rods and wire	40,405	69,266	75,342	98,567	32,033	43,667
Tubes	6,643	10,517	13,802	16,103	13,506	11,345
Sulphate	39,171	47,811	28,427	26,515	31,086	24,966
Kenya—						
Unwrought (a)	—	—	2,474	3,328	3,167	3,053
Rhodesia and Nyasaland—						
Ore and concentrates (d)	4,919	6,604	14,362	23,184	31,543	39,341
Blister	172,898	152,596	171,169	146,273	160,178	151,070
Electrolytic	168,905	215,083	237,441	256,360	354,206	396,821
South West Africa—						
Ore (Cu content)	—	436	1,361	827	2,195	2,153
Copper-lead ore (Cu content) (b)	21,038	30,123	26,638	27,516	30,154	19,179
Tanganyika—						
Lead concentrates (Cu content)	580	1,138	1,052	1,581	1,068	1,228
Uganda—						
Unwrought (a)	—	—	7,404	10,967	11,797	14,713
Union of South Africa—						
Copper-gold concentrates (Cu content)	137	503	1,580	754	441	—
Copper matte (Cu content)	834	1,130				
Ingots, bars and blocks	38,606	39,039	38,482	43,985	42,853	44,573
Canada—						
Ore, matte, etc. (Cu content)	37,112	36,602	41,561	27,068	28,634	42,529
Ingots, etc.	136,785	156,111	177,494	200,569	198,604	248,273
Scrap, slag, etc.	16,333	13,030	10,965	9,899	5,568	10,291
Rods, sheets and strips .. .	14,995	8,869	8,646	10,525	11,312	12,872
Tubes	2,113	1,770	1,884	2,307	3,768	6,105
Wire	(£656,177)	(£706,484)	(£201,213)	(£54,866)	(£145,526)	(£102,317)
Cyprus—						
Concentrates, cement copper and cupreous pyrites (Cu content) .. .	23,374	35,265	38,996	32,691	35,695	34,907
Hong Kong—						
Crude and refined, unwrought (a)	8	—	—	11	11	31
Scrap	1,392	1,434	6,363	252	515	680
Bars, sheets, tubes and wire (a)	112	36	25	750	113	151
India—						
Ingots, etc.	483	214	—	—	—	—
Malaya—						
Ore	—	1,351	1,600	—	2,163	1,239
Ingots, sheets, wire, etc. .. .	57	51	76	103	90	51
Sulphate	6	19	6	2	6	9
Australia (c)—						
Ore, etc. (Cu content)	4,404	3,949	8,145	8,745	10,703	26,361
Matte	—	960	—	493	—	—
Blocks and ingots	5,123	15,112	15,598	16,538	21,094	12,973
Scrap	5	2	2	—	377	597
Bars, sheets, tubes, etc. .. .	548	1,465	1,440	1,073	1,085	1,551
Wire	154	51	680	440	346	201

(a) Including alloys.

(d) Including copper-cobalt matte.

(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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
<i>(cont.)</i>						
Fiji—						
Ore	—	597	—	983	97	47
New Zealand—						
Scrap (a)	896	2,017	1,870	1,370	268	1,824
Papua—						
Ore and concentrates ..	<i>n.a.</i>	21	20	<i>n.a.</i>	<i>n.a.</i>	
Irish Republic—						
Ore and concentrates ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	26,893	30,255
Scrap	1,716	1,550	1,087	1,063	1,086	1,325
OTHER COUNTRIES						
Austria—						
Ore	—	2	—	—	—	—
Rough copper	1,290	1,418	801	777	1,301	1,229
Scrap	114	135	105	141	67	102
Bars, sheets, wire, etc. . .	165	430	404	390	1,015	1,530
Sulphate	530	1,030	1,517	1,076	59	233
Belgium-Luxemburg						
E. U.—						
Rough copper	122,485	133,648	117,486	133,943	163,371	169,387
Scrap	1,102	614	528	2,377	3,387	2,836
Bars, sheets, wire, etc. . .	22,809	22,963	21,514	27,400	22,914	<i>n.a.</i>
Tubes and pipes	3,168	3,721	3,751	3,388	3,361	<i>n.a.</i>
Sulphate	14,806	17,618	23,057	17,111	21,670	20,663
Denmark—						
Rough copper	303	436	200	205	173	272
Scrap	(a) 2,950	(a) 3,012	(a) 1,781	(a) 2,361	2,458	2,334
Bars, sheets, wire, etc. . .	620	1,556	62	42	153	263
Finland—						
Rough copper and scrap	1,284	1,315	2,146	10,718	9,045	4,767
Sheets and wire (a) ..	1,563	1,498	375	2,001	1,581	1,428
France—						
Ore	—	—	—	—	—	984
Unwrought	115	647	470	585	4,563	10,574
Scrap	622	403	62	58	119	3,345
Bars and wire	3,732	2,185	3,229	5,985	10,695	6,692
Plates and sheets	819	696	701	867	1,272	1,227
Tubes and pipes	570	965	1,015	1,865	3,545	3,156
Sulphate	9,942	5,494	5,886	5,366	5,013	9,670
Germany (Federal)—						
Ore	—	2,485	30	—	—	—
Unrefined	3,556	2,434	600	1,480	1,104	548
Refined	43,641	47,310	45,767	63,195	87,433	79,528
Scrap (a)	1,394	1,280	1,368	4,519	6,257	6,519
Bars, sheets, wire, etc. (a)	33,969	52,176	52,147	70,206	81,724	47,226
Sulphate	4,490	3,939	5,248	4,875	4,534	4,780
Italy—						
Ore	—	—	1	—	3,272	2,015
Ingots (a)	—	—	45	1	115	21
Scrap (a)	1	1	—	—	772	60
Bars, sheets, wire (a) ..	4,124	4,520	5,487	8,036	8,671	6,780
Sulphate	2,577	3,925	3,250	6,610	1,772	6,316

(a) Including alloys.

EXPORTS OF COPPER, ETC. (cont.)

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Netherlands—						
Ore	22	—	—	—	722	4,133
Ingots and bars ..	700	771	853	795	1,480	849
Scrap	12,971	12,384	10,282	11,694	14,396	13,190
Sheets, tubes and wire..	9,984	3,564	3,864	11,633	6,539	3,136
Sulphate	10	27	33	27	18	27
Norway—						
Ore	12,358	14,704	12,841	10,538	10,316	42,113
Matte	12,582	13,842	13,005	12,759	17,552	16,811
Burnt cupreous pyrites	7,362	17,146	—	—	<i>n.a.</i>	<i>n.a.</i>
Rough copper	12,560	14,393	14,212	16,635	17,394	18,030
Scrap	(a) 3,665	(a) 2,680	(a) 4,535	(a) 2,219	343	1,288
Portugal—						
Rough copper, sheets, etc.	296	967	434	12	157	435
Sulphate	109	80	67	245	248	194
Spain—						
Ingots and bars (a) ..	—	13	—	5	1,180	<i>n.a.</i>
Sheets, tubes, wire (a) ..	—	1	—	4	53	<i>n.a.</i>
Sweden—						
Rough copper	13,884	14,115	15,797	12,682	14,782	14,947
Scrap	1,812	1,626	342	69	112	86
Sheets, tubes, wire, etc.	21,640	18,416	20,917	24,391	26,534	25,794
Sulphate	2	—	5	—	2	3
Switzerland—						
Refined	(a) 1,368	(a) 1,095	(a) 1,466	(a) 2,698	(a) 3,310	806
Scrap (a)	r 1,623	r 2,242	r 2,650	r 2,875	2,961	403
Bars, sheet, wire, etc. ..	(a) 7,484	(a) 8,471	(a) 9,428	(a) 10,455	(a) 12,213	415
U.S.S.R.—						
Crude (including wire)	36,100	51,600	59,600	43,100	57,900	63,000
Sulphate	8,000	7,900	9,000	8,000	8,300	9,300
Yugoslavia—						
Blister	—	—	—	1	—	—
Electrolytic	6,145	1,253	197	—	—	—
Rods, sheets, tubes, etc.	3,077	1,405	4,609	2,255	1,112	2,328
Sulphate	888	672	9,142	133	776	6,707
Algeria—						
Ore	943	—	431	2,436	797	410
Bars, sheets and wire ..	1,802	1,106	1,451	1,785	1,387	1,767
Scrap	260	175	284	231	766	550
Sulphate	—	1	1	—	2	—
Angola—						
Ore	—	5	—	—	—	—
Ingots	1,158	1,473	1,764	1,513	1,584	1,949
Congo Republic—						
Blister	116,357	126,078	114,160	105,871	121,615	} b 280,000
Refined	111,272	123,594	123,901	130,344	155,801	
Copper-cobalt ingots ..	7,376	9,730	7,094	4,274	5,162	
Morocco—						
Ore	2,680	1,790	1,674	9,898	4,619	4,738
Old and scrap	445	63	79	13	631	590
Upper Volta—						
Ore	787	433	—	—	—	—
Cuba—						
Ore	64,261	60,591	82,735	49,692	<i>n.a.</i>	<i>n.a.</i>
Scrap	1,108	978	517	399	<i>n.a.</i>	<i>n.a.</i>
Mexico—						
Ore, concentrates, etc...	36,824	39,014	21,843	20,143	3,547	20,655
Rough copper	44,910	45,338	43,329	42,493	41,466	34,306

(a) Including alloys.

(b) Estimated.

EXPORTS OF COPPER, ETC. (cont.)

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
(cont.)						
United States—						
Ores, matte, blister, etc. (Cu content)	11,515	12,248	13,978	10,246	2,662	9,920
Refined ingots, etc. ..	178,410	199,199	308,951	343,632	141,909	387,288
Scrap	27,801	22,929	43,740	19,519	9,572	54,195
Sheets, rods, wire, etc. . .	6,893	10,542	11,645	(b) 4,640	(b) 3,296	(b) 3,374
Pipes and tubes	1,153	1,384	1,209	1,436	714	648
Sulphate	33,377	26,943	30,039	6,471	2,386	13,251
Argentina—						
Ores	—	2,855	2,801	2,705	2,983	1,383
Matte	—	—	—	246	224	241
Bolivia—						
Ore, etc. (Cu content) ..	3,442	4,373	3,857	2,741	2,080	2,060
Chile—						
Ores and concentrates	26,621	20,909	24,418	35,114	34,172	n.a.
Precipitate	1,633	3,097	4,100	3,252	3,300	n.a.
Ingots—						
Blister	172,587	206,053	232,271	246,759	253,499	268,561
Refined	101,135	87,001	63,023	52,190	69,242	73,559
Electrolytic	105,708	123,283	149,948	101,236	146,793	135,524
Cu content (a)	405,626	445,027	477,431	425,217	501,262	n.a.
Bars and sheets	9,054	5,468	311	1,631	9,923	n.a.
Wire	13,466	6,879	1,187	19,642	19,349	n.a.
Sulphate	523	157	—	—	n.a.	n.a.
Peru—						
Ore (Cu content)	9,325	11,895	13,957	12,559	12,918	18,578
Matte, etc. (do.)	441	575	558	642	1,093	3
Bars, etc. (do.)	30,357	30,253	34,838	38,631	33,198	144,855
Precipitate (do.)	517	488	485	1,185	955	812
Burma—						
Matte	n.a.	153	419	216	396	364
Formosa—						
Ore	7,431	8,657	9,547	10,580	12,992	n.a.
Japan—						
Ingots and blocks	11,833	2,767	1,657	1,335	1,451	1,585
Bars, rods and tubes	6,179	1,154	564	4,859	4,423	4,267
Plates, sheets and wire ..	17,814	761	906	1,238	1,142	1,330
Scrap	—	—	—	8	—	—
Sulphate	818	11	11	51	27	7,876
Philippine Republic—						
Ore and concentrates	24,668	87,524	125,961	178,061	156,279	171,694
Copper-gold-silver concentrates	64,183	48,329	36,589	22,421	7,398	19,010
Scrap	39	241	—	184	581	497
Turkey—						
Ore	3,665	—	—	—	15,887	747
Ingots	11,864	18,892	14,406	12,495	10,874	17,765

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

(b) Excluding rods.

IMPORTS OF COPPER, ETC.

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Bars, ingots, etc.—						
Electrolytic	244,611	242,880	292,637	308,128	269,386	375,922
Other refined	30,555	34,099	45,238	51,370	49,324	53,633
Blister	121,354	106,290	115,182	95,878	95,233	113,899
Scrap	13,424	1,414	1,343	438	575	2,065
Plates, sheets, etc. ..	476	43	15	36	8	68
Rods	1,930	1,875	1,911	2,803	2,179	3,119
Tubes	13	75	146	110	66	247
Wire	7	13	51	90	118	1,000
Ghana—						
Rods, sheets, tubes, etc. (a)	263	382	228	268	277	536
Wire	70	299	85	166	110	202
Kenya—						
Crude, refined, alloys and scrap	279	52	51	1	1	1
Bars, sheets, tubes and wire	205	281	86	70	102	81
Sulphate	43	13	138	14	54	68
Mauritius—						
Bars, rods, sheets, wire, etc.	57	37	67	107	65	148
Nigeria—						
Rods, sheets, tubes, etc. (a)	429	422	416	421	396	565
Wire	141	76	205	185	209	65
Rhodesia and Nyasaland—						
Ingots, bars and rods ..	466	425	344	245	232	565
Tanganyika—						
Crude, refined, alloys and scrap	33	66	10	1	—	5
Sheets, tubes, wire, etc. ..	92	197	104	92	110	98
Sulphate	41	69	41	31	18	6
Uganda—						
Sheets, tubes, wire, etc. ..	22	32	35	21	23	20
Union of South Africa—						
Bars, ingots and slabs ..	12,738	17,127	18,616	23,407	14,093	22,423
Plates, sheets and tubes ..	906	614	620	505	127	1,141
Wire	42	33	16	33	12	10
Canada—						
Blocks, pigs and ingots ..	31	2,269	3,727	1	93	22
Scrap	2,010	5,596	r 3,374	1,298	3,351	2,739
Bars, sheets, wire, etc. ..	2,035	3,374	3,054	5,072	3,014	2,972
Sulphate	1,011	921	909	1,005	1,168	998
British West Indies—						
Barbados—						
Bars, sheets, tubes, wire	(£21,257)	(£22,347)	80	78	107	81
Jamaica—						
Sulphate	3,204	4,523	4,021	2,608	1,479	1,647
Trinidad and Tobago—						
Sulphate	57	37	28	12	31	25
Cyprus—						
Bars, sheets, wire, etc. ..	60	43	57	50	84	138
Hong Kong—						
Crude and refined, unwrought (a)	21	124	528	20	63	51
Scrap	135	636	6,103	381	675	692
Bars, sheets, tubes and wire (a)	276	286	403	954	438	577

(a) Including alloys.

IMPORTS OF COPPER, ETC. (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES (cont.)						
India—						
Ingots, etc.	15,247	29,949	43,466	47,861	45,750	(b) 55,892
Scrap	419	473	1,048	2,155	3,031	(b) 3,330
Sheets, tubes, wire, etc.	189	459	3,095	1,366	1,225	(b) 1,645
Sulphate	628	1,247	1,738	431	30	(b) 3
Malaya—						
Ingots, sheets, wire, etc.	1,134	1,068	1,383	819	617	1,378
Sulphate	197	252	252	47	140	164
Pakistan—						
Ingots, cakes, blocks, etc.	(b) 51	35	220	264	712	157
Scrap	(b) 24	—	—	3	—	19
Sheets, tubes, wire, etc.	(b) 277	1,418	4,061	1,651	1,428	1,792
Sulphate	(b) 41	63	156	52	18	42
Sarawak—						
Bars, sheets, tubes, wire	32	61	64	48	46	47
Australia (c)—						
Ore and concentrates . .	30	28	—	—	—	—
Blocks and ingots . . .	28,569	4,691	3,251	1,550	2,342	1,965
Scrap	(d) 40	2	10	30	16	33
Rods, sheets and tubes . .	4,902	2,475	1,472	2,281	1,684	2,078
Wire (a)	96	6	5	21	27	4
Sulphate	337	311	165	175	175	338
New Zealand—						
Bars, sheets, pipes, etc. . .	4,187	2,823	4,277	5,072	4,714	5,361
Wire	1,163	1,839	2,376	3,012	2,528	3,723
Sulphate	450	393	1,088	288	212	221
Irish Republic—						
Bars, sheets, wire, etc. . .	1,241	1,077	915	1,334	1,430	1,868
Sulphate	1,925	1,932	1,838	2,272	2,423	2,301
OTHER COUNTRIES						
Austria—						
Ore	17	80	149	—	137	436
Rough copper	12,591	11,666	13,988	17,820	16,957	22,755
Scrap	3,382	2,340	737	1,408	158	813
Bars, sheets, wire, etc. . .	574	526	495	590	1,107	581
Sulphate	1	3	—	1	—	2
Belgium-Luxemburg						
E.U.—						
Ore	2,916	3,257	1,016	3,521	5,561	9,133
Matte and rough copper	179,572	189,888	177,231	181,649	194,949	270,204
Scrap	13,004	11,661	8,649	9,463	15,809	18,909
Bars, sheets, wire, etc. . .	1,324	1,156	600	743	641	1,489
Tubes	554	449	595	550	468	668
Sulphate	23	37	29	33	82	74
Denmark—						
Rough copper	4,219	2,647	3,983	3,938	4,647	4,928
Scrap	(a) 202	(a) 108	(a) 259	(a) 57	23	14
Bars, sheets, wire, etc. . .	12,829	9,430	10,656	13,149	13,997	14,378
Sulphate	1,712	1,700	2,219	2,415	2,669	2,248
Finland—						
Rough copper	1,323	193	893	527	1,045	5,472
Bars, sheets, tubes and wire	728	473	380	732	705	2,269
Sulphate	31	45	15	115	49	85

(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	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
France—						
Ore	43	2,773	—	—	—	—
Unrefined	6,034	4,915	5,293	4,800	4,969	5,672
Refined	162,492	162,184	178,389	212,163	158,522	203,327
Scrap	1,845	1,569	3,737	4,615	1,171	1,517
Bars and wire ..	411	240	364	1,148	779	779
Plates and sheets	35	40	94	31	27	33
Tubes and pipes	44	26	51	98	81	58
Sulphate	5,970	5,726	3,654	3,786	—	1,453
Germany (Federal)—						
Ore	156,047	162,457	174,692	134,419	134,865	137,301
Burnt cupreous pyrites	840,559	1,070,968	953,579	1,103,666	1,198,628	1,345,843
Matte	11,128	12,694	13,394	10,264	9,562	8,374
Unrefined	62,679	68,567	86,819	101,883	95,457	118,396
Refined	139,966	142,740	192,277	227,787	242,835	305,103
Scrap (a)	91,762	54,070	41,413	37,324	34,987	61,385
Bars, sheets, wire, etc. (a)	15,454	11,838	8,243	17,087	31,969	18,446
Sulphate	3,414	381	534	376	676	425
Greece—						
Rough copper ..	85	225	991	1,826	2,726	3,172
Sulphate	6,116	4,805	2,696	4,840	6,018	7,601
Hungary—						
Crude	8,094	8,759	10,460	12,038	16,172	18,089
Sulphate	10,119	14,205	14,481	14,847	10,679	4,682
Iceland—						
Bars, tubes, wire, etc. ..	311	196	214	230	302	239
Italy—						
Unrefined	8,851	13,234	10,629	10,074	2,792	15,736
Refined (a)	78,515	95,031	108,655	95,193	107,976	173,715
Scrap (a)	11,990	11,898	12,811	8,172	5,232	16,393
Bars, sheets and wire (a)	1,197	971	1,441	1,718	1,566	4,257
Sulphate	1,724	2,018	3,337	4,026	4,099	2,165
Netherlands—						
Ore	—	—	2	—	746	4,580
Ingots and bars ..	25,328	22,385	19,564	28,302	25,992	31,561
Scrap	3,534	2,587	2,312	4,007	4,275	4,608
Sheets, tubes and wire ..	17,080	18,501	16,219	12,729	13,976	18,288
Sulphate	1,102	970	1,128	1,861	2,464	2,119
Norway—						
Rough copper ..	4,419	3,858	4,329	5,257	3,428	4,490
Copper-nickel matte ..	37,111	43,795	45,823	48,398	54,159	38,469
Scrap (a)	149	158	426	377	168	331
Bars, sheets, tubes and wire ..	(a) 9,406	(a) 9,540	(a) 10,312	(a) 11,302	11,576	13,157
Sulphate	96	306	342	294	291	424
Poland—						
Crude	13,216	8,844	9,480	23,408	25,569	20,533
Portugal—						
Ore and concentrates ..	—	24	1,389	1,863	3,780	3,250
Matte	84	168	296	63	717	175
Ingots, wire, etc. ..	4,574	8,310	12,704	12,427	6,584	9,855
Scrap	72	586	1,415	735	1,143	319
Sulphate	1,364	2,916	2,939	4,998	5,962	6,906
Spain—						
Ore	—	—	3,761	1,123	2,020	n.a.
Precipitate and scrap (a)	3,236	5,854	2,362	4,225	4,590	n.a.
Ingots and bars (a) ..	7,000	17,665	16,230	16,839	18,046	n.a.
Sheets, tubes and wire (a) ..	151	368	1,064	279	383	n.a.
Sulphate	779	1,637	244	2,330	1,519	n.a.

(a) Including alloys.

IMPORTS OF COPPER, ETC. (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Sweden—						
Ore	31,563	19,617	28,419	29,849	31,718	25,763
Rough copper	49,920	50,919	47,694	52,794	63,589	81,921
Scrap	3,748	1,455	1,429	721	575	2,082
Sheets, rods, wire, etc. . .	2,075	3,682	2,374	3,679	3,836	4,981
Sulphate	708	901	783	507	913	696
Switzerland—						
Refined	(a) 26,292	(a) 34,309	(a) 38,455	(a) 36,036	(a) 30,104	36,888
Scrap (a)	r 1,866	r 851	r 1,151	r 557	724	1,371
Bars, sheets, wire, etc. . .	(a) 9,612	(a) 8,268	(a) 9,110	(a) 8,407	(a) 10,025	9,546
U.S.S.R.—						
Crude	n.a.	n.a.	n.a.	92,300	113,900	104,300
Yugoslavia—						
Electrolytic	—	—	3,167	6,278	2,193	9,166
Rods, sheets and tubes .. .	67	40	564	83	64	234
Algeria—						
Rough copper	3,168	2,978	4,381	3,370	4,272	4,572
Scrap	57	—	—	1	2	25
Bars, sheets, wire, etc. . .	162	212	277	699	805	666
Sulphate	7,944	5,345	6,585	5,465	3,787	2,744
Angola—						
Bars, sheets and wire .. .	110	115	129	111	153	101
Sulphate	10	16	14	43	62	17
Congo Republic—						
Bars, sheets, wire, etc. . .	581	364	343	188	93	n.a.
Egypt—						
Crude and scrap	599	1,046	384	2,386	2,426	2,695
Bars, sheets, tubes, etc. . .	263	376	206	1,054	497	672
Sulphate	441	1,448	595	1,701	73	1,327
Malagasy Republic—						
Bars, sheets and wire .. .	86	114	r 109	78	103	111
Morocco—						
Bars, sheets and wire .. .	671	709	693	803	441	1,271
Sulphate	94	64	147	73	83	29
Mozambique—						
Bars, sheets and wire (a)	136	434	284	254	301	275
Sudan—						
Sulphate	559	640	101	436	642	600
Tunisia—						
Bars, sheets and wire .. .	281	116	156	170	(a) 376	(a) 352
Sulphate	518	564	723	666	699	684
Costa Rica—						
Bars, sheets and wire (a)	66	38	47	78	109	103
Sulphate	14,535	6,523	8,454	1,392	1,393	6,430
Cuba—						
Ingots and bars	130	148	442	2,148	n.a.	n.a.
Sheets, tubes and wire .. .	1,883	1,668	1,737	1,910	n.a.	n.a.
Dominican Republic—						
Sulphate	n.a.	704	342	n.a.	278	n.a.
Guatemala—						
Sheets and wire	246	365	828	562	n.a.	n.a.
Sulphate and carbonate	5,543	5,421	5,456	2,843	n.a.	n.a.
Honduras—						
Sulphate	7,318	7,237	4,522	1,019	17	3,755
Mexico—						
Ingots	63	18	80	65	30	77
Bars, sheets, alloys, etc. . .	273	228	190	120	138	58
Sulphate	217	146	25	1	1	1

(a) Including alloys.

IMPORTS OF COPPER, ETC. (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
(cont.)						
Panama Republic—						
Sulphate	5,956	5,066	5,500	1,198	1,382	2,443
United States—						
Cu content of—						
Ore and concentrates	100,463	72,089	74,386	81,069	8,356	21,819
Matte, precipitate, etc.	5,702	4,641	4,787	4,398	6,351	165
Blister	226,512	246,504	268,871	123,779	182	434
Refined ingots, bars and plates	180,636	171,261	144,919	111,276	211,879	152,698
Scrap	11,229	4,831	5,217	5,223	2,664	1,639
Sheets, tubes, wire, etc.	19,199	26,256	25,707	37,647	48,382	41,490
Sulphate	250	584	109	181	515	983
Argentina—						
Ingots, electrolytic	13,988	2,892	21,682	33,450	19,631	21,338
Sulphate	327	1	—	—	—	—
Brazil—						
Ore	459	388	1,132	—	—	168
Ingots	14,174	19,422	26,638	25,687	19,823	28,537
Rough	509	242	575	1,031	121	576
Plates and sheets	381	135	69	7	6	4
Tubes, pipes and wire	301	83	176	117	153	122
Sulphate	2,525	4,697	3,500	4,456	2,553	4,328
Colombia—						
Ingots, bars and sheets	528	1,039	1,415	601	698	618
Sulphate	4,670	7,690	7,963	2,366	11	683
Peru—						
Bars, sheets, etc. (a)	343	296	362	290	295	339
Sulphate	649	1,549	621	258	125	265
Uruguay—						
Bars, sheets and alloys	n.a.	n.a.	867	183	514	501
Venezuela—						
Sheets	134	150	338	228	207	99
Sulphate	39	64	94	92	122	102
Formosa—						
Ingots	168	689	—	—	230	n.a.
Sheets and wire	38	143	67	52	1	n.a.
Indonesia—						
Bars and sheets	2,320	507	721	703	317	749
Tubes, pipes and wire	639	794	884	887	376	835
Sulphate	598	529	1,511	237	253	312
Iran (b)—						
Ingots, bars and sheets (a)	n.a.	960	2,766	4,489	n.a.	n.a.
Scrap	n.a.	321	519	435	n.a.	n.a.
Iraq—						
Bars, sheets and wire	323	538	798	939	n.a.	n.a.
Japan—						
Ore and concentrates	43,941	128,702	217,431	208,576	330,574	62,305
Matte	7	25	3,259	14	6	1,571
Ingots and slabs	4	21,900	49,614	9,721	14,183	58,420
Scrap	1,841	23,241	55,749	2,669	1,444	7,755
Bars, sheets, wire	102	224	16,841	290	68	84
Philippine Republic—						
Ingots, bars, etc. (a)	n.a.	29	46	502	1,310	1,287
Sheets, tubes, wire	n.a.	674	1,108	2,304	1,361	2,000
Sulphate	105	244	272	173	80	139
Turkey—						
Ingots, bars and sheets	171	136	173	54	191	24
Sulphate	797	1,530	2,071	342	2,097	330

(a) Including alloys.

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

DIAMONDS
PRODUCTION OF DIAMONDS†

Metric carats

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Basutoland	450	620	2,500	6,664	8,713	95
Ghana (b)	2,258,270	2,539,429	3,124,825	3,131,695	3,076,072	3,281,220
Sierra Leone	418,077	(a) 647,797	(a) 863,202	(a) 1,490,037	1,290,964	1,909,180
South West Africa	812,848	988,653	996,965	903,576	930,659	935,404
Tanganyika	325,523	358,717	390,971	521,064	643,277	548,376
Union of South Africa	2,628,917	2,585,728	2,578,975	2,702,250	2,838,332	3,141,463
British Guiana	33,300	29,816	29,037	33,091	62,328	101,004
India	1,787	1,499	790	1,540	682	1,159
Australia	731	383	312	158	37	6
TOTAL	6,479,903	7,152,642	7,987,577	8,790,075	8,851,064	9,917,907
OTHER COUNTRIES						
Angola—						
Gem	441,789	443,280	524,933	593,833	610,733	642,551
Industrial	301,588	296,755	339,439	407,403	404,955	414,276
Congo Republic—						
Gem	628,298	626,969	630,923	669,329	658,909	413,000
Industrial	12,413,199	13,383,509	15,015,807	16,004,145	14,196,261	13,046,563
Central African Republic	136,958	145,837	109,231	85,697	86,571	69,641
Gabon						
Ivory Coast	318,520	389,880	247,138	164,315	187,950	199,120
Guinea				116,000	(a) 657,000	n.a.
Venezuela	141,147	93,833	122,597	90,004	94,986	70,867
TOTAL*	14,700,000	15,700,000	17,300,000	18,400,000	17,200,000	16,000,000
WORLD'S TOTAL* ..	21,200,000	22,900,000	25,300,000	27,200,000	26,000,000	16,000,000

†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:

		<i>Companies</i>	<i>African diggers</i>
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
1960	..	1,861,377	1,419,843

PRODUCTION OF DIAMONDS†

£ sterling

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Basutoland (c)	3,000	4,000	17,000	65,000	63,000	1,000
Ghana (b)	5,452,000	7,948,765	9,428,465	8,272,508	8,446,455	9,794,445
Sierra Leone	1,567,787	(a)3,457,385	(a)6,425,170	(a)7,183,787	(b)7,292,000	b 15,306,000
South West Africa	13,809,000	c 18,043,000	c17,983,000	c16,525,000	c16,342,000	c 14,537,000
Tanganyika (b)	3,228,212	2,864,714	3,401,448	4,463,782	5,274,871	4,772,888
Union of South Africa (c)	12,671,880	12,665,931	14,569,000	15,392,000	15,667,000	17,693,000
British Guiana (b)	280,952	268,344	r 292,000	r 301,000	627,000	1,056,000
India	30,400	24,525	12,600	28,000	17,000	39,700
Australia	5,600	3,067	3,224	1,572	118	20
TOTAL	37,049,900	45,280,000	52,130,000	r 52,230,000	53,730,000	63,150,000
OTHER COUNTRIES						
Angola	4,272,000	4,266,000	6,161,000	7,134,000	7,382,000	6,624,000
Congo Republic—						
Gem (b)	1,675,000	1,474,000	1,625,000	1,791,000	1,751,000	817,000
Industrial (b)	7,863,000	9,116,000	11,011,000	12,766,000	11,249,000	9,282,000
Central African Republic				(b)487,000	(b) 458,000	(b) 509,000
Gabon	822,000	890,000	711,000			
Ivory Coast (b)				718,000	442,000	500,000
Guinea (b)	1,098,900	1,224,000	883,000	366,000	(a)1,858,000	n.a.
Venezuela	(b) 946,000	(b) 924,000	(b)1,207,000	(b) 570,000	(c) 500,000	n.a.
TOTAL*	20,000,000	21,000,000	25,000,000	27,000,000	27,000,000	23,000,000
WORLD'S TOTAL*	57,000,000	66,000,000	77,000,000	79,000,000	80,000,000	86,000,000

†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	
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	
1961 .. ..	..	79,349,763	16,308,370	95,658,133	

EXPORTS OF DIAMONDS

Exporting Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Ghana Ct.	2,276,531	2,518,563	2,930,901	3,280,970	3,116,571	3,291,976
£	5,529,624	7,920,446	8,979,359	8,661,512	8,659,162	9,838,547
Sierra Leone .. Ct.	401,423	647,797	863,202	1,490,037	1,205,302	2,054,735
£	1,400,478	3,457,385	6,425,170	7,183,787	6,808,568	c 16,473,273
Tanganyika—						
Gem diamonds.. Ct.	174,868	170,679	170,674	231,312	250,176	258,370
£	2,704,718	2,211,326	2,518,917	3,436,889	3,506,623	3,644,877
Industrial diamonds Ct.	147,739	186,859	201,928	284,141	304,494	278,203
£	494,719	653,810	723,787	978,166	1,041,114	977,065
Union of South Africa—						
Uncut Ct.	1,451,928	1,372,727	1,435,478	1,336,403	1,677,633	1,596,982
£ (S.A.)	23,824,074	23,360,827	24,685,787	20,572,157	26,272,792	23,858,284
Cut and polished Ct.	109,901	112,885	118,569	117,420	136,243	129,545
£ (S.A.)	8,148,402	8,526,112	10,136,932	10,110,481	11,745,220	11,115,174
British Guiana .. Ct.	33,227	30,871	r 28,521	r 31,935	62,644	94,782
£	280,342	277,841	287,095	290,367	630,575	990,772
Hong Kong—						
Cut and polished Ct.	n.a.	n.a.	n.a.	n.a.	34,531	56,578
£	822,454	1,007,045	776,916	1,205,231	1,760,903	2,613,485
Industrial .. £	4,721	25	—	1,940	5,889	—
Malaya—						
Cut and polished £	40,420	61,590	52,317	43,305	52,035	51,190
Australia (a)—						
Gem diamonds Ct.	59	229	—	165	—	480
£	4,560	1,833	—	1,312	—	3,286
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Cut and polished Ct.	830,041	890,232	793,876	761,785	949,921	1,082,159
£	28,994,898	32,387,209	30,258,537	28,863,065	35,893,793	41,343,531
Industrial, rough and bort .. Ct.	2,748,573	3,280,064	3,330,772	3,087,066	4,930,275	4,337,349
£	11,965,277	16,747,401	13,809,646	12,318,793	19,563,436	11,470,694
France—						
Uncut £	110,983	532,015	83,000	243,465	287,468	350,755
Cut £	1,180,676	1,128,806	1,147,000	1,198,417	1,185,461	1,455,000
Industrial diamonds £	57,253	56,221	34,000	44,385	46,447	59,508
Netherlands .. Ct.	n.a.	n.a.	1,110,518	981,934	1,529,897	1,541,182
£	7,246,000	8,109,000	10,153,000	9,213,000	13,771,000	16,012,000
Dust Ct.	n.a.	n.a.	n.a.	n.a.	n.a.	516,418
£	n.a.	n.a.	n.a.	n.a.	n.a.	528,000
Sweden—						
Industrial diamonds £	34,392	52,284	69,824	96,961	73,090	67,409
Angola Ct.	740,332	743,930	869,105	962,336	1,025,796	933,646
£	4,228,582	4,280,584	5,334,132	6,884,943	7,436,467	6,182,777
Congo Republic—						
Gem diamonds .. Ct.	637,696	643,092	626,442	713,805	660,594	451,679
£	1,519,120	1,360,613	1,324,483	1,483,744	1,427,626	894,000
Industrial diamonds Ct.	12,378,516	12,802,772	14,566,863	14,343,402	15,292,924	9,904,766
£	7,140,091	8,286,627	9,633,213	10,571,279	10,862,308	7,047,000
Central African Republic—						
Guinea Ct.	150,294	147,376	110,550	104,868	89,758	83,642
£	1,098,600	1,013,000	803,000	596,000	475,000	611,000
Ivory Coast—						
Ct.	295,660	388,370	307,900	165,910	230,930	197,805
£	1,021,000	1,221,000	1,100,000	725,000	543,000	497,000
Liberia Ct.	203,543	1,025,034	757,138	868,575	638,440	976,437
£	221,000	870,000	446,000	805,500	754,500	818,000

(a) Years ended June 30 of that stated.

(b) Included with Ivory Coast.

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

EXPORTS OF DIAMONDS (cont.)

Exporting Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
United States—						
Uncut Ct.	39,631	16,480	10,230	14,016	23,058	21,967
£	281,404	241,150	151,906	170,013	216,015	295,273
Cut Ct.	5,825	3,418	6,640	6,841	18,497	12,228
£	981,657	508,231	1,149,343	780,114	1,227,409	1,883,566
Industrial diamonds Ct.	1,168	11,725	54,413	96,014	178,595	306,331
£	5,849	34,977	194,908	191,012	300,302	461,600
Dust Ct.	215,787	210,841	199,252	123,194	172,787	321,373
£	184,787	220,014	223,111	134,636	156,562	300,584
Brazil	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Venezuela .. Ct.	115,188	81,246	91,377	72,889	n.a.	n.a.
£	655,000	779,000	776,000	462,000	n.a.	n.a.
Israel—						
Polished .. Ct.	227,169	263,707	345,401	342,136	477,617	627,163
£	7,224,448	8,825,334	12,610,727	12,234,113	16,701,758	21,735,184
Industrial .. Ct.	2,368	911	9,059	3,866	74,112	63,613
£	22,738	8,144	42,446	30,493	181,723	186,573
Dust Ct.	40	1,486	14,824	15,537	17,701	2,020
£	42	1,968	13,884	2,859	6,942	472

IMPORTS OF DIAMONDS

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom Ct.	18,066,889	18,929,124	21,205,460	21,830,104	22,245,187	17,654,895
(b) £	46,399,171	50,926,976	57,817,489	57,284,672	62,473,773	64,976,439
Malta—						
Cut and polished £	6,620	4,633	2,039	2,038	1,219	487
Union of South Africa—						
Rough diamonds Ct.	(c)	(c)	(c)	(c)	(c)	(c)
£ (S.A.)	(c)	(c)	(c)	(c)	(c)	(c)
Cut and polished Ct.	32	152	169	356	650	803
£ (S.A.)	1,401	4,709	5,201	11,088	18,664	29,749
Zanzibar Ct.	14	65	—	—	—	n.a.
£	617	2,669	—	—	—	n.a.
Canada—						
Unset Ct.	53,307	53,707	27,341	53,948	57,009	55,803
£	2,889,440	2,832,846	1,693,007	2,889,611	3,879,443	2,839,772
Dust, bort, etc... Ct.	745,354	1,048,064	671,293	99,346	490,724	125,083
£	1,259,624	1,911,353	1,377,340	152,019	926,074	176,906
Bermuda £	(a) 285,080	(a) 37,134	251,266	(a) 186,949	(a) 11,818	41,887
Ceylon—						
Cut and polished Ct.	—	141	—	—	460	26,582
£	—	1,815	—	—	1,362	165,644
Hong Kong—						
Gem diamonds .. Ct.	n.a.	n.a.	n.a.	n.a.	234,349	286,113
£	3,796,361	5,313,291	5,851,238	6,111,582	9,028,340	11,570,752
Industrial diamonds £	534	—	—	660	8,445	2,088
India £	72,430	254,446	115,081	66,792	65,570	(e) 118,573
Malaya—						
Cut and polished £	34,596	410,813	374,886	326,476	376,134	372,127
Australia (d)—						
Industrial diamonds Ct.	148,682	135,505	122,629	177,893	185,720	313,175
£	286,835	246,006	221,678	313,852	382,810	431,983
Other diamonds Ct.	17,213	19,503	15,171	16,195	14,224	17,708
£	767,394	821,434	714,973	732,240	674,198	893,442
New Zealand—						
Industrial diamonds £(N.Z.)	392	253	299	985	2,788	9,837
Other diamonds £(N.Z.)	169,535	183,003	180,818	148,387	151,106	220,899

(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.)
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	14,983,836	11,595,714	16,384,742	24,323,797
1960	15,591,198	12,843,624	17,335,315	25,469,252

(d) Years ended June 30 of that stated.

(e) Years ended March 31 following that stated.

IMPORTS OF DIAMONDS (cont.)

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Rough diamonds Ct.	3,731,698	4,127,482	4,439,726	3,412,135	4,491,677	4,334,642
£	24,811,113	30,560,199	32,217,559	25,839,832	36,849,213	36,941,788
Cut diamonds .. Ct.	103,653	175,385	140,826	90,759	161,523	301,490
£	5,127,909	5,867,427	7,565,402	5,711,800	9,142,770	15,099,970
Industrial, rough and bort Ct.	2,764,171	2,380,334	2,305,611	3,057,280	5,699,477	6,273,589
£	4,481,614	4,837,399	4,551,764	6,542,242	12,886,902	12,726,377
France—						
Uncut Ct.	1,872,428	3,013,001	2,521,000	2,578,858	2,399,472	2,755,656
£	1,838,890	2,512,535	2,058,000	1,882,849	2,130,968	2,493,600
Cut and polished Industrial diamonds £	8,978	5,050	7,000	5,661	6,186	7,917
Netherlands .. Ct.						
£	n.a.	n.a.	1,271,149	1,169,044	1,841,155	63,179
Dust Ct.	6,192,000	7,575,000	9,690,000	9,517,000	12,356,000	1,004,000
£	n.a.	n.a.	n.a.	n.a.	n.a.	45,393
Norway Ct.						
£	n.a.	n.a.	n.a.	n.a.	n.a.	48,000
Norway Ct.						
£	2,000	n.a.	n.a.	n.a.	700	n.a.
Sweden—						
Industrial diamonds £	1,363	4,427	2,943	2,536	3,872	2,496
Mexico—						
Uncut Ct.	430,525	363,580	476,400	345,873	314,384	486,079
£	n.a.	8,820	11,805	12,180	16,230	25,475
Industrial diamonds Ct.	n.a.	73,319	37,615	101,796	101,418	76,172
£	37,955	43,080	13,420	81,600	152,075	133,785
United States—						
Uncut Ct.	7,356	17,230	15,857	4,495	26,051	97,862
£	1,066,637	1,176,832	997,162	r 1,929,808	1,578,170	1,365,529
Cut and polished Ct.	27,526,398	30,759,347	27,659,498	r25,823,132	33,552,700	31,142,300
£	707,859	693,142	609,775	718,422	916,824	801,945
Industrial diamonds Ct.	26,822,061	27,069,938	23,447,450	r24,223,488	30,735,249	27,771,132
£	14,952,582	16,165,477	12,218,301	9,500,632	12,605,782	11,982,369
Dust Ct.	23,538,435	26,175,465	17,937,087	13,379,252	21,699,108	17,322,221
£	152,732	238,750	386,203	568,921	489,436	1,118,741
Bort, manufactured Ct.	155,957	249,191	425,171	540,985	587,592	1,086,021
£	2,771	9,054	6,057	752	2,504	n.a.
Israel—						
Rough diamonds Ct.	73,527	118,897	98,566	34,559	61,805	n.a.
£	544,312	640,216	825,668	777,275	1,214,720	1,430,949
Industrial diamonds Ct.	5,926,861	7,598,653	10,149,779	8,954,492	14,063,948	16,612,000
£	458	325	13,299	26,111	31,222	n.a.
Bort Ct.	5,922	2,973	47,293	65,757	54,098	n.a.
£	44,500	42,394	27,844	32,058	17,622	n.a.
Dust Ct.	52,913	54,927	43,635	33,412	17,738	n.a.
£	2,900	450	6,470	6,318	7,790	n.a.
Japan—						
Industrial diamonds Ct.	1,349	474	8,182	6,466	7,092	n.a.
£	171,365	650,000	262,520	154,410	190,880	430,644
£	390,000	666,700	1,043,000	674,000	780,000	1,081,000

DIATOMACEOUS EARTH
PRODUCTION OF DIATOMACEOUS EARTH

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom ..	28,526	23,160	22,811	25,138	(b) 17,000	14,780
Kenya	2,950	4,837	4,229	3,475	3,608	3,385
Union of South Africa ..	759	567	541	321	354	309
Canada (a)	14	2	107	24	4	4
Australia	5,042	5,789	6,221	4,240	5,089	4,492
New Zealand	556	136	3,158	5,657	7,278	6,243
OTHER COUNTRIES						
Austria	3,966	4,900	3,416	3,648	4,011	3,957
Denmark—						
Diatomaceous earth ..	34,913	27,974	30,231	25,360	<i>n.a.</i>	<i>n.a.</i>
Moler (b)	120,000	160,000	150,000	140,000	120,000	140,000
Finland	1,838	2,263	1,673	2,067	1,357	(e) 1,500
France	62,523	62,094	77,206	99,954	100,734	120,000
Germany (Federal) ..	60,469	65,081	68,358	63,516	54,261	47,534
Iceland	—	—	—	787	(e) 790	<i>n.a.</i>
Italy	9,496	8,617	26,524	44,489	50,981	<i>n.a.</i>
Sweden	1,451	1,110	1,176	1,125	<i>n.a.</i>	<i>n.a.</i>
Yugoslavia	4,009	(e) 3,900	(e) 3,900	(e) 3,900	(e) 4,000	(e) 4,000
Algeria	27,130	23,523	9,250	26,000	25,903	21,957
Egypt	344	285	r 632	r 354	292	(e) 290
Mozambique	—	6	—	54	<i>n.a.</i>	94
Costa Rica	2,700	6,015	(e) 1,600	1,969	2,165	(b) 2,000
Guatemala	(e) 14,700	(e) 14,000	18,400	18,920	—	—
Nicaragua	—	—	—	—	1,685	2,008
United States	(c) 328,952	(c) 328,952	(d) 401,589	(d) 401,589	(d) 401,589	<i>n.a.</i>
Argentina	2,500	2,600	3,646	3,979	(e) 3,900	(e) 3,900
Chile	492	—	—	—	—	—
Colombia	—	—	246	196	296	(e) 290
Peru	1	30	34	104	227	1,146
Korea (South)	3,029	3,493	1,314	462	1,665	2,400

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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Kenya	887	1,460	1,235	1,415	942	882
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.	127	134	184	139	470	899
Denmark—						
Diatomaceous earth ..	8,276	7,674	8,971	6,437	11,070	12,723
Moler	97,990	119,480	109,940	91,314	78,396	86,091
Moler bricks	16,043	18,557	20,860	22,128	21,308	28,111
Finland	—	—	38	—	—	62
France	1,789	1,674	1,675	2,156	2,842	8,184
Germany (Federal) ..	2,549	2,229	2,442	2,106	2,220	2,942
Italy	1,023	1,300	932	2,599	1,963	3,146
Norway	—	—	11	—	—	1
Portugal	51	51	66	54	133	112
Sweden	26	62	57	69	62	45
Algeria	18,425	17,682	16,997	23,376	22,552	23,557
Chile	112	10	40	28	<i>n.a.</i>	<i>n.a.</i>
Japan	8	64	148	82	77	155
Korea (South)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	684	10	—

IMPORTS OF DIATOMACEOUS EARTH

Long tons

Importing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom (a) ..	64,896	67,340	69,773	59,562	62,674	58,133
Union of South Africa ..	606	577	803	788	637	1,028
Canada	19,784	18,819	22,579	24,337	24,339	25,884
India	<i>n.a.</i>	<i>n.a.</i>	289	765	1,266	(d) 695
Australia (b) ..	3,944	4,394	4,795	3,204	4,116	3,914
New Zealand	1,291	1,121	1,190	1,815	1,451	1,391
OTHER COUNTRIES						
Austria	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	2,110	1,449
Belgium-Luxemburg ..						
E.U.	2,682	3,324	2,874	2,535	3,457	4,098
Denmark	350	575	543	486	773	959
Finland	1,414	534	444	330	328	351
France	12,074	11,858	10,374	13,981	13,555	13,278
Germany (Federal) ..	57,674	70,629	61,008	55,782	48,685	59,292
Iceland	1,126	898	954	736	4	503
Italy	613	665	1,065	1,033	1,096	3,090
Netherlands	4,892	5,723	6,111	7,837	7,669	7,624
Norway	4,036	4,152	4,677	3,353	1,568	2,195
Portugal	242	344	534	521	720	932
Sweden	1,616	2,141	2,318	2,824	4,197	4,671
Yugoslavia	129	1	7	3	12	20
Algeria	73	45	107	165	196	147
Egypt	1,026	1,380	1,638	1,349	3,266	1,910
Morocco	344	260	271	313	685	643
Costa Rica	11	47	2	7	37	39
Cuba	2,754	2,818	2,596	2,775	<i>n.a.</i>	<i>n.a.</i>
Mexico	3,848	(c) 3,878	(c) 2,875	(c) 3,202	(c) 1,218	(c) 1,068
Salvador	2	1	59	33	47	180
Brazil	607	785	908	816	743	1,029
Chile (c)	12	51	96	169	<i>n.a.</i>	<i>n.a.</i>
Colombia	507	496	701	773	986	1,193
Peru (c)	850	946	1,091	827	1,255	819
Venezuela	(c) 1,549	(c) 1,147	(c) 1,350	(c) 1,525	2,079	1,759
Japan	1,898	1,985	3,131	2,778	3,377	5,174
Lebanon	316	2,170	247	198	249	62
Thailand	18	5	4	10	—	191

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

1955	45,484 long tons
1956	48,462 " "
1957	48,627 " "
1958	37,930 " "
1959	37,963 " "
1960	35,359 " "

(b) Years ended June 30 of that stated.

(c) Including tripoli, etc.

(d) Years ended March 31 following that stated.

FELSPAR
PRODUCTION OF FELSPAR

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
China stone	63,305	60,017	58,125	47,826	45,821	47,481
Kenya	—	—	120	26	—	—
Nigeria	<i>n.a.</i>	14	—	—	—	—
Southern Rhodesia	—	—	—	400	—	—
Union of South Africa	6,421	9,729	11,381	7,708	10,447	15,600
Canada	16,207	16,208	18,259	18,203	16,029	9,633
Ceylon	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	32
Hong Kong	120	20	1,156	1,653	1,716	2,511
India	5,230	3,909	7,872	8,432	9,740	10,395
Australia (a)	20,833	18,629	8,819	7,016	6,750	7,932
OTHER COUNTRIES						
Austria	2,510	2,677	2,612	2,613	3,445	4,573
Finland	12,529	8,799	9,055	13,188	8,191	9,158
France	72,000	71,000	65,000	84,000	79,200	74,000
Germany (Federal) (b)	169,718	172,717	188,268	187,503	186,019	237,647
Italy	52,097	50,479	63,968	55,160	59,940	78,977
Norway—						
Unground	32,178	63,973	51,000	46,000	60,000	65,000
Ground	12,079	15,275	18,800	17,914	17,331	20,000
Portugal	592	912	1,161	544	837	1,699
Spain	5,041	3,524	4,472	5,199	10,722	11,924
Sweden (d)—						
Unground	31,317	31,625	30,380	22,235	26,000	30,000
Ground	18,321	20,875	22,588	20,549	20,200	24,300
Yugoslavia	—	5,476	9,608	12,466	19,309	28,050
Eritrea	12	12	394	413	(c) 400	(c) 400
Mozambique	—	203	—	—	89	—
United States (d)	550,861	560,074	498,057	469,738	548,390	502,380
Argentina	4,509	7,999	4,271	3,621	(c) 3,900	(c) 3,900
Chile	821	826	369	(c) 400	(c) 400	(c) 400
Colombia	—	—	r 5,905	3,937	14,763	15,000
Peru	—	—	—	—	—	242
Uruguay	381	—	168	267	352	713
Japan	30,587	48,665	43,417	44,507	60,196	91,453
Philippine Republic	—	—	49	74	1,684	3,895
TOTAL*	1,110,000	1,170,000	1,120,000	1,080,000	1,200,000	1,300,000

*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): 1955—130,418; 1956—160,720; 1957—178,586; 1958—179,737; 1959—204,216; 1960—222,500.

(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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Canada	1,273	1,611	3,613	8,889	6,743	2,842
India	<i>n.a.</i>	<i>n.a.</i>	500	235	420	(<i>d</i>) 1,619
Australia (<i>b</i>)	235	340	92	—	10	—
OTHER COUNTRIES						
Austria	20	47	21	35	(<i>a</i>) 249	(<i>a</i>) 274
Finland	6,348	6,644	5,579	8,485	4,982	7,164
France	11,927	(<i>a</i>) 14,999	(<i>a</i>) 12,930	(<i>a</i>) 12,460	(<i>a</i>) 13,321	(<i>a</i>) 10,147
Germany (Federal)	(<i>c</i>) 52,479	6,077	7,703	7,075	8,706	11,557
Italy	6,011	6,577	6,904	8,756	13,614	17,266
Netherlands	5,700	4,569	3,232	4,556	6,045	(<i>a</i>) 7,110
Norway—						
Crude	28,416	41,118	31,379	28,234	33,892	42,950
Ground	8,940	12,333	15,724	15,106	15,205	19,229
Sweden	36,621	39,449	36,224	32,739	(<i>a</i>) 35,774	(<i>a</i>) 37,587
Yugoslavia	<i>n.a.</i>	36	2,601	4,908	8,743	8,851
Japan	529	874	719	932	955	1,291

Note.—Exports of nepheline syenite from Canada were as follows (long tons): 1955—105,603; 1956—124,379; 1957—146,734; 1958—142,929; 1959—159,036; 1960—172,587.

(a) May include some leucite and nephelite.

(c) Including fluor spar.

(b) Years ended June 30 of that stated.

(d) Years ended March 31 following that stated.

IMPORTS OF FELSPAR

Long tons

Importing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom	24,458	35,198	31,560	29,323	29,964	37,196
Canada	122	175	215	1,018	1,037	1,195
Australia (<i>a</i>)	241	—	—	—	—	—
New Zealand	739	691	544	796	1,050	766
OTHER COUNTRIES						
Austria	1,240	1,384	1,807	1,959	(<i>b</i>) 2,197	(<i>b</i>) 2,696
Belgium-Luxemburg E.U. (<i>b</i>)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	27,226
Denmark	3,961	4,426	3,237	3,819	(<i>b</i>) 4,006	(<i>b</i>) 5,009
Finland	2	3	35	3	780	(<i>b</i>) 231
France	5,925	(<i>b</i>) 8,251	(<i>b</i>) 4,878	(<i>b</i>) 3,954	(<i>b</i>) 3,506	(<i>b</i>) 6,482
Germany (Federal)	(<i>c</i>) 27,622	21,314	21,034	20,924	24,574	30,277
Italy	2,400	2,410	4,506	3,943	4,879	7,825
Netherlands	16,746	16,093	15,749	20,232	24,673	(<i>b</i>) 25,365
Sweden	13	5	10	7	(<i>b</i>) 111	(<i>b</i>) 151
Algeria	401	(<i>b</i>) 498	(<i>b</i>) 380	(<i>b</i>) 694	(<i>b</i>) 415	(<i>b</i>) 738
Congo Republic (<i>c</i>)	300	46	126	158	193	<i>n.a.</i>
Morocco	(<i>d</i>) 253	(<i>b</i>) 203	(<i>b</i>) 315	(<i>b</i>) 316	(<i>b</i>) 278	(<i>b</i>) 360
Mexico	5,141	5,187	4,060	2,783	4,156	3,662
United States	1,359	1,632	4,041	6,657	5,205	7,024
Colombia (<i>c</i>)	89	53	249	140	147	424
Venezuela	464	1,214	1,596	2,078	3,378	3,102
Israel	1,066	1,212	1,860	847	1,438	<i>n.a.</i>
Japan	33	—	—	3	—	1,390

(a) Years ended June 30 of that stated.

(c) Including fluor spar.

(b) May include some leucite and nephelite.

(d) Including pegmatite.

FLUORSPAR
PRODUCTION OF FLUORSPAR

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom (a) ..	85,924	91,550	93,274	77,505	83,105	97,543
Southern Rhodesia ..	429	842	87	4	9	17
South West Africa ..	603	—	21	4	126	—
Swaziland ..	—	40	—	—	—	—
Union of South Africa ..	29,321	31,308	31,345	43,081	62,783	101,384
Canada	114,387	125,063	59,147	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Australia	282	745	700	930	471	7
OTHER COUNTRIES						
France	84,699	83,404	107,398	95,628	98,594	116,000
Germany—						
Federal Republic ..	161,558	157,514	136,984	116,041	112,750	119,110
East (b)	80,000	80,000	61,000	64,000	64,000	74,000
Italy	100,174	122,924	142,326	145,461	155,439	149,513
Norway	283	177	—	—	—	—
Spain	65,762	72,572	86,999	89,056	87,784	109,266
Sweden (c)	1,303	871	2,648	2,846	2,700	2,900
U.S.S.R. (b)	100,000	145,000	145,000	160,000	170,000	190,000
Morocco	r 39	r 122	—	—	—	—
Mexico (e)	178,769	321,533	348,042	277,201	304,631	344,446
United States (d) ..	249,589	294,392	293,636	285,279	165,260	205,162
Argentina	11,000	13,000	7,629	11,845	(b) 11,800	(b) 11,800
Bolivia (e)	507	267	—	—	—	—
Burma	—	—	—	320	<i>n.a.</i>	<i>n.a.</i>
China (b)	90,000	130,000	145,000	145,000	200,000	245,000
Japan	5,123	7,956	7,627	5,419	5,075	9,025
Korea (South)	9,915	3,064	5,039	1,594	6,025	18,602
Thailand	—	—	—	—	—	3,405
Turkey	21	—	—	79	66	321
TOTAL	1,400,000	1,700,000	1,700,000	1,600,000	1,600,000	1,900,000

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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
South West Africa ..	603	—	—	34	28	—
Union of South Africa ..	16,289	17,452	21,721	32,210	51,781	69,439
Canada	52,134	69,982	21,098	6	3,370	9,207
OTHER COUNTRIES						
France	4,035	3,613	1,846	4,801	13,136	18,104
Germany (Federal) ..	(a) 52,479	39,307	37,364	14,412	15,658	17,650
Italy	83,872	61,559	77,723	81,521	119,197	70,105
Norway	—	122	—	—	32	—
Spain	59,789	61,108	66,321	64,071	62,157	<i>n.a.</i>
Sweden	14	1	26	241	311	280
Morocco	225	288	—	30	127	59
Mexico	178,769	321,533	348,042	277,201	304,631	344,446
United States	780	175	674	3,012	1,022	409
Argentina	42	162	838	781	854	271
Bolivia	507	267	—	—	—	—
Korea (South)	7,585	12,702	10,208	11,607	18,065	28,115

(a) Including felspar.

IMPORTS OF FLUORSPAR

Long tons

Importing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Canada	19,393	25,132	12,988	27,149	21,239	53,279
India	<i>n.a.</i>	<i>n.a.</i>	7,986	5,330	12,298	(c) 3,760
Australia (a)	543	344	530	401	1,347	3,701
OTHER COUNTRIES						
Austria	10,406	9,548	9,125	9,420	11,070	14,763
Belgium-Luxemburg E.U.	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	8,157
Denmark	1,075	1,004	1,013	934	637	917
France	98	735	4,652	5,590	707	2,659
Germany (Federal) ..	(b) 27,622	13,614	10,897	1,422	3,733	14,606
Netherlands	5,939	5,233	7,484	6,300	5,734	9,755
Norway	1,000	1,131	1,061	978	1,828	1,837
Portugal	102	248	67	159	198	<i>n.a.</i>
Sweden	6,849	8,762	8,675	8,412	8,370	12,270
U.S.S.R.	73,700	116,500	114,300	127,600	108,100	74,100
Yugoslavia	1,016	2,173	818	1,810	1,230	2,373
Algeria	159	262	65	104	156	96
Congo Republic (b) ..	300	46	126	158	193	<i>n.a.</i>
Mexico	—	1	53	—	4	2
United States	324,482	433,529	563,721	350,146	496,206	476,804
Brazil	32	1,011	960	281	831	310
Colombia (b)	89	53	249	140	147	424
Venezuela	82	250	214	540	149	103
Japan	30,849	49,641	57,458	36,156	70,625	99,019

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

(b) Including felspar.

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

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Union of South Africa ..	2,233	2,636	1,376	1,759	312	511
India	7,838	5,457	4,568	13,483	<i>n.a.</i>	<i>n.a.</i>
Australia	71	235	215	120	136	90
OTHER COUNTRIES						
United States (a) ..	330,106	372,960	326,876	319,538	365,734	364,576

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	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
United States (a) ..	15,600	<i>n.a.</i>	<i>n.a.</i>	6,626	8,871	10,746

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

(a) As recorded by producers.

IMPORTS OF FULLER'S EARTH

Long tons

Importing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Union of South Africa ..	721	752	951	928	1,063	1,219
Canada	(£40,862)	(£52,461)	(£55,854)	(£58,625)	(£59,009)	(£69,069)
Ceylon	110	73	135	51	136	94
Australia (a)	268	233	152	200	177	318
New Zealand	179	200	196	226	127	274
OTHER COUNTRIES						
Chile	11	84	507	153	796	<i>n.a.</i>
Peru	744	606	568	610	450	963
Venezuela	407	417	169	263	380	279

(a) Years ended June 30 of that stated.

GOLD
PRODUCTION OF GOLD
(Metal content)

Fine troy ounces

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Bechuanaland Protectorate	560	590	190	215	198	203
Ghana	687,151	637,755	790,381	852,838	913,141	878,958
Kenya	9,528	13,843	7,388	7,753	9,145	8,645
Nigeria	688	440	389	644	848	779
Northern Rhodesia	2,234	3,367	3,270	r 3,729	4,685	5,527
Southern Rhodesia	524,701	536,392	536,849	554,838	566,883	562,702
Sierra Leone	468	102	—	—	—	—
Swaziland	—	252	7	—	—	806
Tanganyika (a)	75,135	69,699	63,485	67,777	96,802	106,711
Uganda (b)	354	237	182	278	334	650
Union of South Africa	14,601,404	15,896,693	17,030,737	17,656,447	20,065,515	21,383,019
Canada	4,541,962	4,383,863	4,433,894	4,571,347	4,483,416	4,602,762
British Guiana	22,459	15,024	15,286	16,503	3,164	2,170
India	210,880	209,251	179,182	170,090	165,400	160,600
Malaya (c)	21,600	19,200	10,600	21,400	25,400	19,700
Sarawak	463	599	883	864	2,450	3,326
Australia	1,049,039	1,029,821	1,083,941	1,103,980	1,085,104	1,086,317
Fiji	71,849	67,475	73,629	86,794	72,565	72,705
New Guinea and Papua	79,092	79,476	69,029	43,812	46,820	45,150
New Zealand	26,443	26,063	30,195	24,981	36,758	33,326
TOTAL	21,926,000	22,990,000	24,330,000	25,184,000	27,579,000	28,974,000
OTHER COUNTRIES						
Finland	18,808	18,229	21,895	r 22,152	23,374	20,351
France	30,286	30,608	35,170	35,560	42,150	48,000
Germany (Federal)	3,839	4,369	3,681	(d) 4,000	(d) 4,000	(d) 4,000
Greece	6,655	3,504	7,877	6,940	4,730	4,823
Italy	6,160	5,948	6,346	4,802	3,261	3,310
Portugal	28,807	22,120	23,277	17,742	20,800	21,900
Spain	10,500	11,600	11,900	14,200	15,200	14,000
Sweden	98,767	95,745	97,095	127,600	103,000	91,100
Yugoslavia	41,635	47,808	51,988	55,364	59,640	67,517
Angola	57	34	—	26	42	42
Cameroun	518	429	10,899	2,009	971	420
Central African Republic	420	300	560	850	440	300
Congo (Republic of)	8,640	6,800	6,830	5,530	3,360	2,400
Congo Republic	369,926	373,849	374,235	356,134	351,090	(c) 250,000
Egypt	6,524	7,697	3,026	1,812	2,486	(d) 2,500
Eritrea	161	3,215	4,501	6,430	16,718	5,144

(a) Including gold in lead concentrates exported amounting to 6,141 ounces in 1955, 11,871 ounces in 1956, 9,192 ounces in 1957, 11,951 ounces in 1958, 10,391 ounces in 1959 and 8,963 ounces in 1960.

(b) Exports.

(c) Estimated

(d) United States Bureau of Mines' estimate.

PRODUCTION OF GOLD (cont.)

Fine troy ounces

Producing Country	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Ethiopia	22,058	25,700	(b) 25,000	36,369	41,439	40,915
Gabon	34,230	36,590	20,800	15,200	14,800	16,200
Liberia	(d) 672	(a) 500	(a) 381	(f) 400	1,401	1,036
Malagasy Republic	r 966	r 758	r 758	r 720	200	300
Morocco	4,276	264	—	—	—	104
Mozambique	1,247	1,247	1,080	695	295	225
Sudan	1,526	3,100	1,158	1,571	1,419	n.a.
Upper Volta (c)	518	388	331	3,100	3,400	930
Costa Rica (b)	300	300	300	300	n.a.	n.a.
Cuba (e)	2,024	1,008	915	804	615	348
Dominican Republic	—	290	286	780	513	(e) 308
Guatemala (f)	300	360	360	370	—	—
Honduras	817	1,611	2,025	1,714	(e) 2,798	(e) 2,172
Mexico	382,883	350,250	346,328	332,250	313,662	300,200
Nicaragua	237,376	217,140	203,636	214,882	217,849	210,200
Salvador	3,818	3,271	2,508	2,372	2,393	1,100
United States	1,880,142	1,827,159	1,793,597	1,739,249	1,602,931	1,666,772
Argentina	7,330	6,858	7,729	3,054	(e) 1,782	(e) 201
Bolivia (d)	73,818	24,118	46,940	19,115	35,246	45,460
Brazil (g)	109,602	122,237	120,755	116,190	112,332	118,891
Chile	136,062	94,459	103,590	111,000	76,290	(f) 60,000
Colombia	380,824	438,347	325,114	371,715	397,929	433,947
Ecuador	15,289	15,076	16,247	19,445	18,450	15,159
French Guiana	8,700	5,800	8,940	18,000	15,000	18,900
Peru	170,747	159,074	161,831	159,127	150,299	143,766
Surinam	7,202	6,721	6,516	4,258	5,826	4,932
Venezuela	61,140	69,767	89,873	75,976	53,740	46,868
Burma	124	126	(d) 166	190	(d) 212	(d) 304
Cambodia	—	482	1,608	322	4,823	4,180
Formosa	27,900	32,900	20,500	21,200	13,500	15,700
Japan	240,732	241,422	252,563	260,630	261,547	260,000
Korea (South)	47,676	49,903	66,578	72,071	65,680	65,810
Philippine Republic	419,112	406,163	379,982	422,833	402,615	410,618
TOTAL*	4,900,000	4,800,000	4,700,000	4,700,000	4,500,000	4,400,000
WORLD'S TOTAL* (excl. U.S.S.R.)	26,800,000	r 27,800,000	29,000,000	29,900,000	32,000,000	33,400,000

*In view of the wide divergences in estimates of the production of gold in the U.S.S.R. (ranging from 2-18 million ounces) figures for that country have been omitted. The United States Bureau of Mines has estimated the production at 10-11 million ounces in recent years.

(a) Purchases.

(b) Estimated.

(c) European producers only.

(d) Exports.

(e) Imports into the United States.

(f) United States Bureau of Mines' estimate.

(g) Mined gold only.

TOTAL EXPORTS OF GOLD*

(Metal content)

Fine troy ounces

Exporting Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Bullion, refined	6,749,299	10,372,551	11,258,836	10,738,067	21,691,400	21,462,066
Coin	58,000	53,000	41,000	564,000	345,207	350,165
Ghana—						
Bullion	723,905	599,340	788,151	851,433	902,595	893,113
Kenya*—						
Bullion	9,700	13,600	7,300	7,750	9,050	8,600
Nigeria—						
Bullion	200	—	230	—	—	—
Sierra Leone*—						
Bullion	200	400	—	—	—	—
Rhodesia and Nyasaland—						
Concentrates, etc.* .. .	1,300	2,100	2,400	1,100	2,200	1,900
Bullion	515,699	515,030	547,140	542,747	557,422	556,178
Tanganyika—						
Concentrates	6,141	11,871	9,192	11,951	10,391	8,930
Bullion (refined) .. .	68,892	59,293	54,088	56,299	85,403	98,024
Uganda—						
Bullion	354	237	182	278	334	650
Union of South Africa—						
Ore and concentrates* ..	3,700	3,300	8,200	7,600	7,200	800
Bullion	14,203,000	15,438,000	17,335,000	17,774,000	19,387,000	22,836,000
British Guiana—						
Bullion	13,204	6,224	7,699	10,163	654	—
India—						
Bullion	—	402	—	1,568	298	<i>n.a.</i>
Malaya—						
Bullion	13,900	14,990	9,348	10,023	18,256	4,559
Hong Kong—						
Bullion	1,691,000	2,286,000	1,850,000	1,239,000	1,444,000	1,366,000
Sarawak—						
Bullion	477	687	847	188	23	—
Australia (a)—						
Ores, etc.	11,133	13,427	21,817	23,787	16,025	25,085
Bullion, refined .. .	855,688	523,940	908,224	405,307	203,096	653,097
do. unrefined .. .	8,703	7,724	42	—	—	—
Fiji—						
Bullion	73,989	67,130	76,620	81,120	70,719	71,677
New Guinea (a)—						
Bullion	85,726	71,519	78,363	54,542	47,153	40,321
New Zealand*—						
Auriferous quartz, etc.	1,295	—	—	—	—	6
Beaten, rolled or drawn	19,000	19,000*	25,000*	18,000*	29,000*	25,000*
Papua (a)—						
Bullion	1,065	491	397	454	410	128
Irish Republic*—						
Bullion	1,500	1,000	1,700	2,000	1,300	7,800

*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	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Bullion and scrap ..	42,000	158,000	90,000	268,000*	216,000*	215,000
Coin	n.a.	119,000	71,000	363,000	270,000	170,000
France—						
Bullion and scrap ..	3,557,000	3,372,000	2,403,000	3,197,000	709,000	644,000
Coin	120,000	90,000	32,000	34,000	42,000	57,000
Beaten, rolled or drawn	58,000*	70,000	55,000*	41,000*	102,000*	42,000*
Germany (Federal)—						
Unwrought	60,000	38,000	49,000	105,000	101,000	112,000
Netherlands—						
Bullion, etc.	581,000*	46,000*	303,000*	155,000*	27,000*	51,000*
Coin	75*	382,000*	246,000*	33,000	48,000	4,000
Sweden*—						
Bullion	13,000	43,000	44,000	37,000	37,000	49,000
Switzerland—						
Unwrought	44,000	52,000	79,000	225,000*	267,000	294,000
Cameroun—						
Bullion	900	600	1,400	12,000	700	300
Congo Republic—						
Bullion	370,000*	363,000*	363,000*	332,000	317,000*(a)	300,000
Equatorial African Community—						
Bullion	43,000	43,000	30,000	24,000	17,000*	20,000
Liberia—						
Bullion	672	n.a.	n.a.	n.a.	n.a.	n.a.
Malagasy Republic—						
Bullion	31	—	—	—	—	—
Mozambique—						
Bullion	1,100	63,000	600	1,000	184,000	—
Sudan*—						
Bullion	400	900	1,500	2,000	1,300	2,000
Upper Volta—						
Bullion	—	—	—	—	—	1,000
Honduras—						
Ore and base bullion ..	817	1,611	2,028	2,484	3,061	2,286
Mexico—						
Bullion	57,000	44,000	57,000	645,000	44,500	625,000
Nicaragua—						
Bullion	228,621	215,746	196,133	208,398	208,805	198,189
Salvador—						
Bullion, etc.	4,000	3,000	3,000	2,000	2,000	1,000
United States—						
Ore and base bullion ..	11,202	19,962	23,953	26,929	20,498	9,196
Refined bullion.. ..	151,008	713,900	4,781,780	859,042	29,104	37,676
Argentina—						
Bullion and coin	400	27,000	2,485,000	1,433,000	4,500	9,000
Bolivia—						
Ore	54,913	868	450	17,172	31,986	24,388
Bullion	18,905	23,250	46,490	1,943	3,260	21,069
Chile—						
Ores and concentrates	80,440	74,326	70,310	58,151	55,585	n.a.
Colombia—						
Bullion	364,039	419,221	114,674	—	—	—
Ecuador—						
Concentrates*	13,000	16,000	17,000	20,000	22,000	18,000
French Guiana—						
Bullion	8,000	1,000	9,000	16,000	16,000*	18,000*
Peru—						
Ores, concentrates, etc.	28,933	34,329	31,407	52,913	92,620	57,968
Bullion	51,779	68,268	259,458	278,433	21,300	30,770

(a) Estimated.

EXPORTS OF GOLD (cont.)

Fine troy ounces

Exporting Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES (cont.)						
Surinam—						
Bullion	7,200	—	—	—	—	—
Venezuela—						
Bullion*	21,000	59,000	33,000	7,000	—	3,007,000
Philippine Republic—						
Concentrates and matte	6,001	(a) 62,202	(a) 51,113	(a) 59,459	10,155	(a) 67,553
Bullion, etc.	110,922	(a) 141,360	(a) 156,100	(a) 272,930	401,594	(a) 286,298
Lebanon—						
Coin	96,000	121,000	106,000	42,000	56,000	n.a.

(a) Imports into the United States.

TOTAL IMPORTS OF GOLD*

(Metal content)

Fine troy ounces

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore, etc.*	46,000	44,000	50,000	45,000	31,500	49,800
Bullion—						
Unrefined	1,651,966	1,401,223	1,509,553	1,542,497	1,594,956	1,559,520
Refined	14,837,704	17,281,124	22,491,593	22,460,998	26,005,116	24,956,264
Coin	20,000	23,000	36,000	436,000	211,629	4,361
Malta*—						
Bullion and coin	7,200	11,900	7,300	8,000	7,600	8,600
Ghana—						
Bullion	250	249	—	—	—	533
Kenya*—						
Bullion	1,500	200	250	100	100	130
Nigeria—						
Bullion and coin	237	405	672	331	—	20
Rhodesia and Nyasaland*						
Concentrates	100	200	300	600	900	1,700
Tanganyika*—						
Bullion	150	—	—	—	—	—
Uganda*—						
Bullion	1,000	600	900	400	450	570
Zanzibar*—						
Bullion	1,200	1,300	900	700	1,100	<i>n.a.</i>
British West Indies—						
Jamaica*—						
Bullion and coin	100	300	1,000	170	100	25
Trinidad and Tobago—						
Bullion	1,534	1,869	5,456	6,215	6,981	6,000
Ceylon*—						
Bullion (b)	8,500	22,000	11,000	45	11,250	12,000
Cyprus*—						
Bullion	200	400	2,600	3,200	5,000	4,200
Hong Kong—						
Bullion	1,776,000	2,208,000	1,853,000	1,236,000	1,450,000	1,403,000
Coin	41,000	18,000	3,500	—	—	—
India—						
Bullion	3,028	6,498	28,751	36,515	20,606	<i>n.a.</i>
Coin	14	372	422	306	142	<i>n.a.</i>
Malaya—						
Bullion	476	685	846	978	145	1,974
Sarawak—						
Bullion (c)	4,200	4,400	3,600	4,000	14,700	188,000
Australia (a)—						
Bullion	175,039	175,649	143,852	169,119	139,305	161,222
Fiji—						
Bullion	33	184	175	245	212	232
New Zealand—						
Bullion	594	1,834	3,381	3,484	3,485	5,915
Beaten, rolled or drawn	172	115	191	220	189	148
Irish Republic*—						
Bullion	—	1,400	—	—	—	—

*See note on page 131.

(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	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
Austria—						
Bullion	24,000	23,000	27,000	47,000	61,000	536,000
Belgium-Luxemburg ..						
E.U.—						
Bullion, scrap, etc. ..	407,000*	852,000	831,000*	1,579,000	665,000*	613,000*
Coin	<i>n.a.</i>	87,000	68,000	141,000	154,000	312,000
Finland—						
Bullion and scrap ..	700	600	150	1,000	300	—
France—						
Bullion and scrap ..	1,321,000	3,828,000	2,655,000	2,674,000	1,740,000	3,800,000
Coin	26,000	62,000	20,000	15,000	5,000	13,000
Beaten, rolled or drawn ..	100	100	3,000	3,000*	3,000	6,000
Germany (Federal)—						
Unwrought*	808,000	971,000	1,388,000	1,484,000	1,432,000	1,945,000
Italy—						
Bullion and scrap ..	15,000	16,000	447,000	815,000*	10,492,000	9,930,000*
Netherlands—						
Bullion	314,000*	242,000*	137,000	160,000*	94,000	159,000
Coin	5,000*	13,000	111,000	2,000	400	100*
Norway—						
Sheets and rolled ..	<i>n.a.</i>	8,000	200	12,000	2,000*	1,000*
Sweden—						
Bullion*	7,400	7,000	7,000	8,000	4,000	9,000
Switzerland—						
Unwrought	27,000	43,000*	33,000	31,000	34,000	43,000
Algeria—						
Bullion	119,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Coin	51,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Beaten, rolled or drawn ..	22,000*	19,000*	20,000*	20,000*	17,000*	17,000*
Egypt—						
Bullion	800	400	—	400	700	1,000
Coin	100*	—	200	20	—	—
Mozambique—						
Bullion	113,000	100,000	103,000	111,000	111,000	—
Sudan—						
Bullion	655	870	1,020	1,694	<i>n.a.</i>	<i>n.a.</i>
Mexico—						
Bullion	572,000	573,000	573,000	1,000	859,000	573,000
United States—						
Ore and base bullion ..	1,071,270	1,197,136	1,185,917	1,099,484	444,416	460,579
Refined bullion ..	1,858,736	2,532,611	6,515,253	7,020,242	8,040,528	8,861,716
Coin*	5,000	—	<i>n.a.</i>	24,000	<i>n.a.</i>	<i>n.a.</i>
Brazil—						
Bullion	16,000	1,000	1,000	700	200	500
Formosa—						
Bullion	2,000	3,000	6,000	6,000	42,000	<i>n.a.</i>
Lebanon—						
Bullion and scrap ..	437,000	358,000	628,000	340,000	1,052,000	1,139,000
Coin	16,000	17,000	57,000	134,000	130,000	<i>n.a.</i>
Philippine Republic—						
Bullion	<i>n.a.</i>	18,595	8,646	25,693	24,953	2,876
Syria—						
Bullion and scrap (a) ..	359,000	305,000	27,000	348,000	56,000	18,000

(a) Gross weight.

GRAPHITE
PRODUCTION OF GRAPHITE

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Kenya	216	533	943	660	567	994
South West Africa (a) ..	903	—	—	—	—	—
Tanganyika (a)	—	23	—	—	25	24
Union of South Africa ..	1,633	1,662	1,562	781	551	798
Ceylon (c)	9,878	9,207	8,190	5,637	7,872	9,024
Hong Kong	1,535	2,442	3,305	3,285	3,283	3,799
India	1,613	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Australia	22	10	—	—	—	—
OTHER COUNTRIES						
Austria (a)	17,533	18,390	18,622	20,820	61,110	86,646
Germany (Federal)	10,317	11,498	11,209	10,733	11,037	11,400
Italy	2,317	2,849	2,762	3,922	3,086	3,659
Norway	5,330	4,966	5,594	4,399	4,818	5,883
Spain	320	295	271	364	408	257
Sweden (a)	276	394	734	530	(b) 600	(b) 600
Yugoslavia	922	—	984	886	984	(b) 1,000
Malagasy Republic—						
Flake	<i>r</i> 10,479	<i>r</i> 9,431	8,130	<i>r</i> 4,930	5,164	6,950
Powder	<i>r</i> 5,095	6,151	7,039	<i>r</i> 7,058	6,096	7,266
Morocco	115	122	—	—	122	—
Mexico	28,877	29,156	23,159	19,254	27,397	33,774
Argentina	2	344	403	469	(b) 500	(b) 500
Brazil	764	517	794	1,181	1,191	<i>n.a.</i>
Formosa	—	2,040	881	817	554	(b) 600
Japan—						
Flake	2,190	2,440	2,594	2,062	3,171	3,425
Other	883	914	2,113	1,346	805	1,021
Korea (South)—						
Flake	—	520	256	143	149	689
Other	88,527	59,629	145,015	92,541	81,142	90,184
Korea (North)	3,829	18,424	31,222	(b) 40,000	(b) 50,000	(b) 50,000
TOTAL*	210,000	200,000	300,000	240,000	290,000	340,000

*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) United States Bureau of Mines' estimate.

(c) Exports.

EXPORTS OF GRAPHITE

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Crucibles	2,829	2,638	2,574	2,392	2,525	2,805
Kenya	338	421	662	508	584	601
South West Africa	676	—	—	—	—	—
Tanganyika (crude)	—	23	—	—	25	25
Union of South Africa	—	24	39	9	11	6
Canada	7	2	r —	—	—	—
Ceylon	9,878	9,162	8,235	5,662	7,872	9,024
Hong Kong	2,014	5,217	4,788	2,172	3,705	7,856
India	n.a.	n.a.	—	6	5	(c) 18
Australia (a)	15	4	10	3	4	16
OTHER COUNTRIES						
Austria	12,418	13,716	14,055	14,445	16,153	18,120
Belgium-Luxemburg						
E.U.	33	22	32	60	26	25
Denmark	20	40	20	1	—	2
France	749	585	770	673	630	1,138
Germany (Federal)	4,909	6,080	5,399	4,719	5,574	5,872
Italy	1,680	1,358	1,813	1,449	1,238	1,566
Netherlands	(b) 446	(b) 885	(b) 1,136	(b) 2,438	(b) 1,806	498
Norway	5,241	5,102	5,626	4,257	4,395	5,329
Sweden	1	2	1	—	26	—
U.S.S.R.	5,500	4,500	4,200	3,700	4,700	3,700
Algeria	15	244	68	231	259	104
Malagasy Republic	16,507	15,158	16,052	10,924	10,843	15,574
Morocco	147	48	2	—	—	30
Mozambique	40	—	—	—	—	—
Mexico	29,768	27,235	22,074	17,239	23,179	34,385
United States	1,244	948	1,204	1,041	1,222	1,657
Brazil	5	4	—	—	—	—
Japan	691	443	356	488	787	616
Korea (South)	59,589	95,551	142,634	67,373	43,943	54,558

(a) Years ended June 30 of that stated.

(c) Years ended March 31 following that stated.

(b) Including artificial graphite.

IMPORTS OF GRAPHITE

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Natural	12,167	9,526	8,295	4,737	6,129	9,725
Artificial	1,321	1,880	3,480	3,870	1,077	280
Mauritius—						
Crucibles	5	5	5	2	1	2
Rhodesia and Nyasaland	83	64	57	108	54	26
Union of South Africa ..	119	118	151	390	162	346
Canada—						
Unground	(£23,563)	(£31,973)	(£27,645)	(£19,494)	(£23,797)	(£27,836)
Ground, including manufactures	(£204,143)	(£296,503)	(£279,378)	(£333,050)	(£362,918)	(£332,999)
Crucibles	(£73,769)	(£94,545)	(£88,557)	(£60,826)	(£83,347)	(£86,819)
Hong Kong	503	1,536	1,728	681	1,286	5,747
India—						
Graphite	692	827	1,088	626	1,060	(a) 1,777
Crucibles	86	496	n.a.	n.a.	n.a.	n.a.
Malaya	123	123	103	76	93	129
Pakistan—						
Graphite	(a) 17	71	111	132	249	771
Crucibles	(a) 36	—	15	—	65	63
Australia (b)	1,013	764	r 1,009	816	944	987
New Zealand	47	30	52	54	44	54
OTHER COUNTRIES						
Austria—						
Graphite	641	872	1,157	1,293	131	212
Crucibles, etc.	196	181	215	185	194	193
Belgium-Luxemburg						
E.U.	2,311	2,805	1,971	2,174	2,606	1,338
Denmark—						
Graphite	1,143	1,061	1,208	578	475	505
Crucibles	102	105	101	119	n.a.	n.a.
Finland	341	199	266	262	472	474
France	5,060	4,534	4,782	4,197	3,874	5 065
Germany (Federal)	10,176	11,447	12,450	12,323	11,528	16,950
Greece	156	183	167	111	156	n.a.
Iceland	11	24	10	20	20	10
Italy	2,615	4,429	6,632	5,004	5,688	7,082
Netherlands	(c) 888	(c) 1,131	(c) 1,059	(c) 900	(c) 814	854
Norway—						
Graphite	220	258	346	185	83	300
Crucibles, etc.	97	121	98	87	n.a.	n.a.
Portugal	51	84	56	80	124	91
Sweden	905	982	1,668	1,087	736	844
Yugoslavia	1,129	521	953	658	800	1,170
Algeria	6	1	4	8	9	22
Congo Republic	3	24	40	5	2	n.a.
Egypt	243	312	276	329	614	315
Mozambique	2	3	3	3	1	3
Tunisia	3	3	3	1	1	2
Mexico—						
Graphite	209	100	90	198	155	247
Crucibles	240	212	205	193	174	304

(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	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
United States (a) ..	43,361	42,684	37,073	24,144	33,074	42,235
Argentina	800	402	616	248	310	71
Brazil—						
Graphite	5	—	—	60	154	261
Crucibles	173	260	291	232	271	343
Chile	83	85	79	72	<i>n.a.</i>	<i>n.a.</i>
Colombia (b)	18	29	38	81	77	192
Peru (b)	127	100	26	83	57	64
Uruguay	<i>n.a.</i>	<i>n.a.</i>	37	—	13	22
Venezuela	40	84	155	254	212	98
Burma	18	29	95	96	47	452
Formosa	1,887	1,521	2,123	1,293	841	<i>n.a.</i>
Indonesia (b)	276	284	190	174	265	279
Israel—						
Crucibles	42	59	34	60	39	<i>n.a.</i>
Lebanon (b)	20	35	11	6	29	35
Japan	86,372	110,910	148,831	81,877	47,854	61,974
Philippine Republic	55	44	67	108	66	121
Syria (b)	15	5	23	16	27	<i>n.a.</i>
Thailand	166	309	418	671	780	790
Turkey—						
Graphite	34	45	70	24	63	109
Crucibles, etc.	78	17	39	111	208	103

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

Year	Long tons
1955	211
1956	74
1957	7
1958	22
1959	5
1960	166

(b) Including artificial graphite.

GYPSUM
PRODUCTION OF GYPSUM

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Gypsum	1,580,400	1,689,600	1,699,200	1,486,800	1,586,400	1,732,800
Anhydrite	1,335,700	1,644,600	1,650,300	1,764,400	1,801,400	1,853,000
Kenya	851	1,908	(g) 4,846	10,905	13,117	16,863
Tanganyika	7,502	8,695	9,493	9,145	6,745	4,564
Union of South Africa ..	159,108	186,940	160,618	228,217	199,751	192,692
Canada (a)	4,053,268	4,375,237	4,202,254	3,550,637	5,342,272	4,547,466
Jamaica	(c) 82,155	124,876	189,161	599,591	385,567	221,560
Trinidad	—	432	2,336	2,777	4,850	6,467
Ceylon	114	492	744	136	6	n.a.
Cyprus (b)	160,000	124,000	144,000	139,000	194,000	n.a.
India	689,905	853,600	r 921,987	781,846	846,000	981,000
Pakistan	28,046	36,200	64,064	66,095	97,243	89,541
Australia	470,014	r 463,355	r 478,436	504,938	516,791	572,830
Irish Republic	124,460	118,144	r 116,667	r 105,687	135,312	(b) 146,000
OTHER COUNTRIES						
Austria—						
Gypsum	324,774	349,090	364,305	415,612	414,880	440,656
Anhydrite	81,059	96,592	153,029	117,816	139,775	211,455
Belgium	35,336	34,221	35,809	42,896	—	—
Czechoslovakia	208,000	171,000	208,000	n.a.	n.a.	n.a.
France (a)	3,587,465	3,511,370	3,596,700	3,612,800	3,684,162	4,000,000
Germany (Federal) (d) ..	881,000	923,000	866,000	845,000	933,000	1,016,000
Germany (East) (d) .. .	206,000	213,000	228,000	219,000	249,000	253,000
Greece	15,000	17,000	(b) 17,000	21,564	2,000	n.a.
Italy (including alabaster)	789,140	865,135	943,046	1,222,179	1,951,488	n.a.
Luxemburg	7,162	8,036	9,523	9,990	9,621	8,320
Poland	325,000	348,000	n.a.	n.a.	n.a.	n.a.
Portugal	56,968	54,206	63,626	42,684	53,400	60,664
Spain	963,534	1,157,046	1,585,718	(b) 2,211,000	(b) 2,479,000	(b) 2,413,000
Switzerland	(e) 196,000	237,000	231,000	88,000	(e) 98,000	(e) 98,000
U.S.S.R. (f)	2,825,000	2,972,000	(e) 3,450,000	(e) 3,450,000	(e) 3,450,000	(e) 3,450,000
Yugoslavia	76,000	97,000	83,000	75,000	91,000	104,000
Algeria	r 109,999	r 52,131	75,196	125,041	130,000	n.a.
Angola	2,706	19,596	6,704	4,557	13,000	(e) 12,000
Congo Republic	10,000	10,000	11,000	(e) 10,000	—	—
Egypt	175,793	200,502	930,000	r 521,000	515,000	(e) 520,000
Morocco	r 62,494	46,295	n.a.	n.a.	n.a.	n.a.
Sudan	3,061	1,378	—	—	n.a.	—
Tunisia	34,329	13,165	27,185	16,300	6,000	13,572
Dominican Republic .. .	57,422	75,051	72,129	75,206	155,999	(e) 157,000
Guatemala	—	—	6,000	15,000	n.a.	n.a.
Mexico	n.a.	487,000	804,000	733,000	815,000	778,000
United States	9,539,047	9,211,146	8,209,446	8,613,285	9,700,000	8,772,000
Argentina	128,075	146,000	150,683	105,000	(e) 110,000	(e) 110,000
Brazil	159,102	152,108	107,961	128,022	180,137	(e) 200,000
Chile	46,618	40,486	31,632	n.a.	n.a.	n.a.
Colombia	22,000	50,000	55,000	49,000	70,000	70,000
Peru	43,004	n.a.	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	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES (cont.)						
Burma	—	—	—	—	1,925	1,035
Formosa	10,042	12,270	6,283	9,943	10,178	10,461
Israel	(a) 50,000	(a) 54,000	21,200	(a) 35,000	(a) 60,000	(a) 60,000
Japan	334,064	372,677	470,357	471,069	532,097	722,949
Philippine Republic	—	—	—	1,508	1,739	8,934
Thailand	—	—	2,067	5,600	3,400	13,000
TOTAL*	30,000,000	31,700,000	33,000,000	33,000,000	38,000,000	37,000,000

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

(a) Estimated.

EXPORTS OF GYPSUM

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Calcined	13,625	14,842	17,491	11,576	9,179	11,466
Tanganyika	7,812	9,450	9,667	9,152	6,758	4,350
Union of South Africa ..	22,269	34,512	33,971	47,529	34,450	30,684
Canada—						
Crude	2,713,564	3,429,215	3,045,254	2,587,705	4,329,086	3,815,775
Calcined	87	133	21	14	333	29
Jamaica	81,743	120,583	178,986	587,759	370,905	207,682
Cyprus—						
Crude	89,998	25,424	41,687	27,067	52,304	107,560
Calcined	3,747	3,023	1,256	2,722	1,538	2,144
India	<i>n.a.</i>	<i>n.a.</i>	1,510	1,385	756	(b) —
Australia (a)—						
Crude	36,981	36,373	33,496	70,900	58,717	84,110
Calcined	9,516	7,582	5,181	5,709	2,118	2,337
Irish Republic—						
Crude	32,693	40,026	55,966	38,590	64,978	87,056
OTHER COUNTRIES						
Austria—						
Crude and ground ..	23,433	24,135	22,013	26,167	25,175	27,169
Calcined	48	1,226	1,742	57	486	888
Belgium-Luxemburg						
E. U.—						
Crude	52	292	816	510	6	116
Calcined	8,779	9,701	9,692	9,871	12,493	12,835
Denmark—						
Crude and calcined ..	31	23	4	14	13	30
France—						
Crude	616,493	433,076	369,085	389,875	432,459	493,079
Calcined	68,109	60,310	70,362	65,957	74,672	93,440
Germany (Federal)—						
Crude and calcined ..	148,398	183,884	169,165	142,932	147,262	197,395
Germany (East)—						
Calcined	25,145	29,441	37,777	35,059	33,204	34,961
Italy—						
Crude	621	2,512	941	2,021	6,765	1,325
Calcined	309	769	403	517	4,248	8,084
Netherlands—						
Calcined	313	2,553	5,738	4,071	3,641	257
Portugal—						
Crude	536	635	710	884	628	636
Sweden—						
Calcined	15	9	11	307	205	98
Switzerland—						
Ground and calcined ..	190	106	75	63	95	157
Yugoslavia—						
Crude	—	23,977	15	—	9,511	88
Ground and calcined ..	4,231	5,076	4,497	1,559	2,441	1,178
Algeria	37	45	16	—	1	1
Angola—						
Crude	7,107	2,399	5,257	3,918	3,005	8,473
Egypt—						
Crude and ground ..	17,086	18,898	20,304	12,509	22,549	23,456
Calcined	15,063	8,967	19,956	25,105	9,970	16,713
Morocco—						
Crude	21,604	14,066	15,413	26,188	22,691	14,661
Calcined	942	343	335	2,412	697	61

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

EXPORTS OF GYPSUM (cont.)

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Dominican Republic ..	50,288	63,437	65,127	51,435	130,471	332,840
Mexico—						
Crude	333,807	423,600	493,042	545,054	772,398	656,530
Calcined	139	156	477	74	3	28
United States—						
Crude and calcined ..	20,124	18,533	21,828	25,783	12,778	15,182
Argentina	917	1,674	544	33	1,006	3,059
Venezuela	2,879	—	2,756	2,608	—	—
Japan—						
Crude	2,038	25	58	204	169	355
Calcined	154	222	372	362	357	432
Syria	5,600	963	5,171	6,892	12,136	n.a.

IMPORTS OF GYPSUM

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Crude, including						
alabaster	89,489	63,783	70,876	78,544	102,418	141,039
Calcined	1,632	1,163	1,669	842	945	726
Rhodesia and Nyasaland—						
Crude and calcined ..	19,341	34,493	34,509	38,999	30,839	28,166
Union of South Africa—						
Crude and calcined ..	1,526	1,804	1,641	1,556	1,945	2,580
Bermuda—						
Calcined	226	204	322	352	672	593
Canada—						
Crude and ground ..	14,379	62,889	82,267	96,462	105,205	53,581
Calcined	23,157	20,352	r 15,555	r 28,384	15,855	11,155
India—						
Crude	n.a.	n.a.	27,954	4,918	1,101	(a) 825
Calcined	n.a.	n.a.	97	101	29	(a) 175
New Zealand—						
Crude	39,058	35,702	47,413	58,595	57,662	65,363
Calcined	21,533	17,965	16,833	14,819	11,180	14,708
OTHER COUNTRIES						
Austria—						
Crude and ground ..	16,443	10,945	1,375	6,856	14,376	11,772
Calcined	942	1,028	1,207	1,796	1,125	2,187
Belgium-Luxemburg						
E. U.—						
Crude	241,569	263,103	262,124	231,288	262,467	270,638
Calcined	41,760	39,779	47,794	40,052	34,943	36,759
Denmark—						
Crude	36,796	31,688	40,135	34,261	44,773	48,138
Calcined	6,232	6,140	5,720	7,132	5,991	5,708
Finland—						
Crude	45,172	51,424	41,455	37,883	63,099	58,914
Calcined	30,428	32,425	35,884	29,083	29,939	35,887
France—						
Crude	12,664	29,341	18,650	3,362	10,097	17,106
Calcined	1,536	1,090	1,019	1,017	2,702	3,194
Germany (Federal)—						
Crude and calcined ..	14,365	13,555	13,458	19,295	38,679	53,475
Greece—						
Calcined	151	196	182	185	125	n.a.
Iceland	44	44	48	32	5,488	3,465
Italy—						
Crude	20	1	38	32	4	110
Calcined	83	176	67	117	301	335
Netherlands—						
Crude	50,430	57,426	70,361	59,952	63,524	92,316
Calcined	38,436	39,904	44,294	43,795	44,651	48,114
Ground	124,438	25,319	2,509	1,372	622	(b)
Norway—						
Crude	35,553	33,008	34,758	36,824	39,996	42,971
Ground	3,457	4,514	4,370	4,779	5,996	4,382
Portugal—						
Crude	6,950	8,578	9,222	9,350	9,517	10,875
Calcined	16	16	16	22	21	17
Sweden—						
Crude	97,954	106,243	115,074	126,716	133,813	180,185
Calcined	17,280	20,940	23,740	19,792	19,465	20,519

(a) Years ended March 31 following that stated.

(b) Included with crude and calcined.

IMPORTS OF GYPSUM (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Switzerland—						
Ground and calcined ..	327	500	496	632	1,633	7,168
Algeria—						
Crude	—	—	4,922	39	2,854	2,264
Calcined	3,551	3,652	7,866	6,328	9,938	11,167
Angola—						
Crude and calcined ..	517	555	575	662	443	690
Congo Republic—						
Crude and calcined ..	13,820	10,763	10,753	10,459	9,146	<i>n.a.</i>
Egypt—						
Crude and ground ..	2	2	—	—	—	—
Calcined	29	20	6	17	146	8
Malagasy Republic ..	91	136	104	86	3,140	83
Morocco	148	81	55	42	28	63
Mozambique—						
Crude	7,410	6,225	7,827	9,012	10,355	12,508
Calcined	83	111	118	115	73	134
Sudan	408	295	200	356	<i>n.a.</i>	<i>n.a.</i>
Tunisia—						
Crude	111	—	—	—	—	1
Calcined	—	106	113	131	171	228
Costa Rica	56	73	78	79	128	121
Cuba	3,590	3,851	4,235	4,323	<i>n.a.</i>	<i>n.a.</i>
Mexico—						
Crude	<i>n.a.</i>	53	1,445	1,029	19	148
Panama Republic ..	2,002	3,910	<i>n.a.</i>	2,254	3,256	3,450
Salvador—						
Crude	5,393	3,358	3,039	2,564	846	1,429
Calcined	59	22	39	30	34	337
United States—						
Crude	3,550,987	3,880,478	3,870,060	3,613,392	5,474,665	4,737,336
Ground and calcined ..	837	1,023	777	703	915	1,035
Argentina—						
Crude	—	—	137	32	27	24
Brazil—						
Crude	18	79	33	13	26	22
Colombia—						
Crude	5,628	17,027	9,151	11,072	17,884	24,743
Calcined	264	334	269	362	411	616
Peru—						
Crude and calcined ..	166	65	79	58	88	76
Uruguay—						
Crude and ground ..	<i>n.a.</i>	<i>n.a.</i>	8,783	20,529	33,174	9,283
Venezuela	453	214	114	122	121	75
Indonesia—						
Crude	1,328	4,297	12,438	364	5,586	9,843
Calcined	72	93	60	88	53	309
Israel—						
Crude	10	98	—	—	—	<i>n.a.</i>
Calcined	82	65	54	94	75	<i>n.a.</i>
Japan	16,416	20,514	21,032	26,981	22,997	75,620
Korea (South)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	4,925	8,564	18,035
Lebanon	18,527	12,394	37,415	27,282	42,248	45,144
Philippine Republic—						
Crude	13,800	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Calcined	641	919	<i>n.a.</i>	534	675	611
Syria	15	10	48	23	12	<i>n.a.</i>
Thailand—						
Crude	8,063	5,105	962	546	208	163

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

Producing Country	ORE										Estimated Iron Content		Long tons
	1955	1956	1957	1958	1959	1960	1955	1956	1957	1958	1959	1960	
COMMONWEALTH COUNTRIES													
United Kingdom (a) ...	16,175,100	16,245,400	16,902,100	14,612,400	14,869,500	17,087,400	4,367,000	4,386,000	4,564,000	3,945,000	4,163,000	4,614,000	
Northern Rhodesia (b) ...	2,164					1,309,572	1,100	810,000	830,000	815,000	914,000	906,000	
Sierra Leone ...	1,235,384	1,311,059	1,323,895	1,299,349	1,421,533	1,393,572	772,000	810,000	830,000	815,000	914,000	906,000	
Southern Rhodesia ...	82,888	114,245	132,829	142,416	127,679	155,954	47,700	65,600	76,400	n.a.	73,400	89,700	
South West Africa ...			339	6,616					n.a.				
Uganda ...		(b) 1,005											
Union of South Africa ...	1,967,347	2,031,685	2,047,413	2,177,422	2,845,562	3,022,123	1,242,000	1,289,000	1,295,000	1,310,000	1,710,000	1,810,000	
Canada ...	14,538,551	19,953,820	19,885,870	14,041,360	21,864,576	19,241,812	7,996,000	10,975,000	10,937,000	7,723,000	12,020,000	10,583,000	
Hong Kong ...	115,500	122,963	94,182	105,125	119,893	117,043	66,000	69,000	53,000	59,000	67,000	66,000	
India ...	4,677,538	4,897,792	r 5,085,176	r 6,032,896	r 7,856,000	10,514,000	2,980,000	r 2,940,000	3,050,000	3,680,000	4,790,000	6,410,000	
Malaya ...	1,466,184	2,444,570	2,972,359	2,795,261	3,760,684	5,640,258	821,000	1,370,000	1,665,000	1,565,000	2,106,000	3,159,000	
Pakistan ...		7,012	23,313	8,097		5,421	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Australia ...	3,572,609	r 3,913,545	r 3,800,823	r 3,917,424	4,140,693	4,355,464	2,304,000	2,536,000	2,463,000	2,539,000	2,700,000	2,814,000	
Fiji ...		2,777	1,300	2,977	11,692	11,999	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
New Zealand (b) ...	2,550	2,777	2,399	1,533	1,505	1,999							
TOTAL ...	43,836,000	r 51,046,000	r 52,272,000	r 45,143,000	57,022,000	61,546,000							
OTHER COUNTRIES													
Albania ...	n.a.	n.a.	n.a.	88,000	(d) 160,000	(d) 160,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Austria ...	2,793,621	3,206,433	3,440,511	3,356,519	3,328,928	3,485,630	871,000	1,003,000	1,075,000	1,053,000	1,045,000	1,830,000	
Belgium ...	106,471	142,000	135,000	122,000	140,000	158,000	37,000	50,000	47,000	43,000	49,000	55,000	
Bulgaria ...	111,000	232,000	267,000	(d) 340,000	370,000	400,000	70,000	140,000	170,000	200,000	230,000	250,000	
Czechoslovakia ...	r 2,451,000	r 2,499,000	2,766,000	2,755,000	2,921,000	3,071,000	740,000	750,000	830,000	830,000	880,000	920,000	
Finland (c) ...	181,560	202,912	206,470	212,000	224,000	281,000	119,700	133,100	134,600	138,000	146,000	183,000	
France ...	49,516,812	51,871,979	56,872,817	58,533,462	59,976,000	65,852,000	15,113,000	15,812,100	17,387,000	17,725,000	19,000,000	21,000,000	
Germany—													
Federal Republic	15,436,000	16,661,000	18,031,000	17,700,000	17,778,000	18,571,000	4,160,000	4,441,000	4,751,000	4,670,000	4,712,000	4,919,000	
Eastern	1,638,000	1,729,000	1,455,000	1,482,000	1,574,000	1,616,000	490,000	520,000	440,000	440,000	470,000	480,000	
Greece ...	192,166	400,721	539,138	328,044	153,471	n.a.	98,000	205,000	276,000	168,000	79,000	79,000	
Hungary ...	347,000	300,000	273,000	365,000	432,000	508,000	108,000	93,000	85,000	113,000	134,000	157,000	
Italy ...	1,405,366	1,660,715	1,577,711	1,280,528	1,229,436	1,308,000	680,000	820,000	790,000	635,000	620,000	610,000	
Luxemburg ...	7,090,818	7,474,900	7,571,300	6,533,160	6,406,000	6,867,137	1,903,000	2,002,000	2,091,000	1,861,000	1,817,000	1,965,000	
Norway ...	1,235,754	1,525,472	1,522,976	1,575,604	1,521,612	1,631,243	792,000	977,000	968,000	1,001,000	976,000	1,039,000	
Poland ...	1,827,000	1,942,000	1,964,000	2,138,800	1,982,000	2,148,000	600,000	660,000	670,000	730,000	670,000	730,000	
Portugal ...	186,583	233,739	281,859	228,466	241,350	297,000	93,296	116,870	140,924	114,233	120,572	149,000	
Roumania ...	626,942	683,379	634,314	751,742	1,047,000	1,437,000	280,000	310,000	290,000	330,000	470,000	650,000	
Spain ...	3,708,910	4,409,766	5,155,739	4,953,969	4,536,400	5,548,476	1,670,000	1,980,000	2,479,000	2,427,000	2,248,000	2,753,000	

* For detailed figures see page 148.

(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				
	1955	1956	1957	1958	1959	1960	1955	1956	1957	1958	1959	1960			
OTHER COUNTRIES															
Sweden	17,080,712	18,648,137	19,608,904	18,022,913	18,061,000	21,442,000	10,287,000	11,123,000	11,564,000	10,853,000	10,800,000	12,900,000			
Switzerland (a)	127,000	129,000	114,000	77,000	59,000	104,825,000	40,000	50,000	50,000	30,000	20,000	30,000			
U.S.S.R.	70,727,000	76,846,000	82,838,000	87,413,000	92,899,000	104,825,000	42,400,000	46,100,000	49,700,000	52,400,000	55,700,000	62,900,000			
Yugoslavia	1,376,214	1,697,724	1,846,485	1,965,000	2,062,000	2,358,000	2,420,000	2,600,000	2,830,000	2,880,000	2,930,000	3,000,000			
Algeria	3,541,331	2,586,294	2,697,724	2,287,938	1,897,000	3,383,000	1,771,000	1,945,000	1,470,000	1,236,000	1,037,000	1,831,000			
Angola	n.a.	n.a.	103,932	282,656	343,470	646,347	n.a.	n.a.	67,000	184,000	223,000	420,000			
Congo Republic (e)	12,288	20,936	28,992	3,330	242,000	(f) 245,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.			
Egypt	1,280	130,000	250,000	175,000	242,000	245,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.			
Guinea	640,000	833,500	1,071,900	408,239	336,915	765,000	339,000	433,000	536,000	204,000	168,000	382,000			
Liberia (b)	1,716,932	2,036,941	2,128,650	2,034,501	2,664,960	2,915,686	1,359,000	1,385,000	1,447,000	1,363,000	1,812,000	1,983,000			
Morocco	1,326,344	1,773,541	1,845,217	1,514,385	1,245,043	1,552,116	750,000	930,000	1,040,000	800,000	620,000	780,000			
Tunisia	1,122,069	1,151,642	1,156,000	1,085,751	966,148	1,017,069	620,000	633,000	640,000	592,000	527,000	594,000			
Cuba	120,571	145,454	155,365	14,690	—	1,017,069	620,000	633,000	640,000	592,000	527,000	594,000			
Dominican Republic	99,269	161,695	179,987	29,648	—	120,812	68,000	107,000	119,000	20,000	—	80,000			
Guatemala	(f) 3,000	(f) 3,000	4,000	5,000	(f) 4,000	(f) 4,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.			
Mexico	(a) 704,000	801,000	935,000	(a) 1,018,000	(a) 880,000	924,000	432,000	480,916	539,619	609,682	526,865	513,122			
United States (c)	103,671,801	98,359,277	106,698,000	168,095,000	60,549,000	89,283,000	53,000,000	50,000,000	54,000,000	35,000,000	31,000,000	46,000,000			
Argentina	89,787	(a) 64,000	65,997	64,000	108,000	108,000	45,000	32,000	33,000	52,000	54,000	n.a.			
Brazil	3,328,511	4,021,305	4,898,090	5,102,820	8,701,694	5,173,000	2,260,000	2,730,000	3,330,000	3,570,000	6,090,000	3,620,000			
Chile	n.a.	n.a.	387,990	583,765	3,843,756	4,646,837	1,034,391	1,664,443	1,923,020	2,324,223	2,452,771	2,864,740			
Colombia	343,461	387,990	583,765	552,993	1,079,926	4,646,837	1,034,391	1,664,443	1,923,020	2,324,223	2,452,771	2,864,740			
Peru	1,737,743	2,873,600	3,522,765	3,532,108	3,519,000	6,872,000	1,040,000	1,740,000	2,140,000	1,985,000	1,980,000	3,860,000			
Venezuela	8,306,162	10,929,398	15,135,068	15,239,986	16,929,607	19,182,551	5,316,000	6,995,000	9,686,000	5,754,000	10,835,000	12,277,000			
Burma (e)	3,914	1,821	4,155	4,363	3,692	15,570	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.			
China (a)	12,000,000	14,000,000	16,000,000	28,000,000	45,000,000	55,000,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.			
Iran (b) (g)	1,542,384	5,391	12,239	19,756	2,507,964	2,808,683	842,000	1,082,000	1,201,000	1,379,000	1,549,000	1,749,000			
Japan (d)	28,135	1,975,117	2,203,520	2,056,393	2,277,211	385,900	14,300	31,600	93,100	123,000	141,000	197,000			
Korea (South)	61,874	182,484	182,484	256,902	2,660,000	2,950,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.			
Korea (North)	n.a.	n.a.	n.a.	1,530,000	2,660,000	2,950,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.			
Lebanon	42,000	31,403	41,586	23,000	3,000	8,000	21,000	14,000	19,000	10,000	1,000	1,000			
Philippine Republic	1,410,084	1,417,486	1,325,059	1,081,379	1,210,764	1,120,785	818,000	822,000	769,000	717,000	702,000	636,000			
Portuguese India	2,176,074	2,504,381	2,901,017	2,888,556	3,025,269	4,615,545	1,245,000	1,453,000	1,712,000	1,675,000	1,755,000	2,558,000			
Thailand	5,000	5,684	8,833	14,517	5,978	11,294	3,300	3,800	3,800	9,000	4,000	4,000			
Turkey	860,174	915,784	1,145,812	935,890	859,103	722,988	516,000	550,000	687,000	9,000	515,000	405,000			
New Caledonia	—	27,700	220,388	290,449	282,400	271,700	—	15,000	121,000	166,000	157,000	149,000			
TOTAL	325,000,000	343,000,000	377,000,000	352,000,000	375,000,000	448,000,000	—	—	—	—	—	—			
WORLD'S TOTAL	369,000,000	394,000,000	429,000,000	397,000,000	432,000,000	510,000,000	—	—	—	—	—	—			

(a) Estimated.
 (b) Exports.
 (c) Usable ore.
 (d) Including iron sand as follows (long tons): 1955—570,628; 1956—905,055; 1957—1,067,084; 1958—898,910; 1959—1,235,650; 1960—1,539,340.
 (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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Hematite	449,700	452,600	446,700	453,100	447,900	434,900
Jurassic ironstones—						
Lower lias	4,419,400	4,485,300	4,905,700	4,691,000	4,764,000	5,411,600
Middle lias	3,227,900	3,460,000	3,189,600	2,628,300	2,137,900	2,551,100
Inferior oolite	8,078,000	7,847,500	8,360,100	6,840,000	7,519,700	8,656,500
Other iron ore	100	—	—	—	—	—
Sierra Leone—						
Red ore	314,720	321,356	306,320	298,256	95,312	—
Concentrates	920,664	985,845	1,017,680	1,001,093	1,326,221	1,393,572
OTHER COUNTRIES						
France—						
Phosphoric	45,952,284	48,130,143	52,984,995	55,027,947	56,331,000	61,734,000
Medium phosphoric	3,250,425	3,427,076	3,592,075	3,180,114	3,302,000	3,788,000
Non-phosphoric	314,103	314,760	295,747	r 325,401	343,000	330,000
Italy—						
Iron ore	1,371,680	1,647,329	1,555,815	r 1,272,059	1,229,436	1,225,738
Manganiferous iron ore	33,686	13,386	21,896	r 8,469	—	—
Luxemburg—						
Siliceous iron ore	2,619,471	2,686,000	2,823,121	2,934,770	2,785,000	3,218,654
Calcareous iron ore	4,069,290	4,302,000	4,442,424	3,292,407	3,259,000	3,333,523
Ferruginous limestone..	402,057	486,000	453,755	305,983	362,000	314,930
Portugal—						
Hematite	137,655	160,450	185,493	133,018	150,227	189,000
Magnetite	48,928	73,289	96,366	95,448	87,678	108,000
Limonite	—	—	—	—	3,445	—
Sweden—						
Manganiferous iron ore	124,000	115,000	46,000	61,000	n.a.	n.a.
Other iron ore	16,957,000	18,533,000	19,563,000	17,962,000	n.a.	n.a.
<i>By phosphorus content (a)</i>						
Under 0.006%	695,673	738,991	1,002,770	867,596	n.a.	n.a.
0.006% to under						
0.04%	2,436,729	2,551,620	2,656,578	2,408,765	n.a.	n.a.
0.04% to under 0.1%	319,310	600,263	362,971	353,240	n.a.	n.a.
0.1% to under 0.7%	5,452,146	6,328,578	7,214,504	7,689,223	n.a.	n.a.
0.7% to under 1%	1,228,302	1,286,296	1,213,508	—	n.a.	n.a.
1% and over	6,948,551	7,142,390	7,158,573	6,704,089	n.a.	n.a.
United States—						
Ore containing less than 5% Mn—						
Hematite (b)	92,957,669	81,143,609	86,691,000	50,931,000	44,236,000	68,147,000
Magnetite (b)	6,550,062	12,446,062	15,397,000	12,183,000	12,867,000	18,199,000
Limonite	2,461,011	3,202,450	3,250,000	3,843,000	2,381,000	1,641,000
Pyrite cinder and sinter	1,034,002	1,085,210	810,379	739,000	791,000	791,000
Ore containing 5 to under 10% Mn						
	669,057	481,946	549,129	386,473	273,541	506,551

(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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom	1,314	786	758	708	974	563
Sierra Leone	1,331,573	1,328,019	1,444,542	1,421,563	1,503,275	1,540,445
Union of South Africa	4,281	27,867	11,637	7,706	166,208	466,911
Canada	13,008,000	18,094,080	17,972,769	12,391,314	18,552,487	16,942,140
Hong Kong	123,698	123,705	103,876	108,492	124,152	122,472
India	1,297,447	1,692,626	2,215,838	1,866,342	2,471,454	(b)3,140,124
Malaya	1,592,268	2,376,485	2,919,739	2,591,374	3,747,709	5,500,173
Fiji	—	—	—	—	6,925	21,994
Irish Republic—						
Burnt pyrites	27,627	31,322	28,583	25,809	17,003	30,434
OTHER COUNTRIES						
Austria	39,415	53,628	48,995	48,245	48,698	19,704
Belgium-Luxemburg						
E.U.—						
Iron ore	415,918	608,429	504,048	109,713	121,645	126,649
Burnt pyrites	215,027	284,094	177,516	149,709	220,824	311,009
Denmark—						
Bog ore (a)	104,791	143,497	120,176	99,840	77,395	63,194
Burnt pyrites	86,643	90,114	96,780	98,753	96,650	96,836
Finland—						
Iron ore	218,704	205,683	213,499	206,436	210,643	282,755
Burnt pyrites	102,905	211,712	155,761	95,293	121,055	120,821
France—						
Iron ore	13,488,215	13,721,110	14,085,265	15,041,047	19,697,439	26,726,549
Burnt iron pyrites	432,183	449,624	333,830	281,161	360,063	497,461
Germany (Federal)—						
Iron ore	305,525	332,183	364,825	325,839	289,904	239,774
Burnt iron pyrites	27,469	21,983	11,187	1,011	9,028	17,661
Greece	205,541	403,307	404,164	267,174	159,453	301,364
Italy—						
Iron ore	47,035	41,051	69,010	12,988	2,428	7,366
Burnt iron pyrites	319,272	361,028	440,415	434,799	436,371	705,165
Netherlands—						
Iron ore	331	3,073	6,629	390	425	7,811
Burnt iron pyrites	389,180	381,703	322,755	183,521	195,706	435,932
Norway—						
Iron ore	1,164,163	1,242,322	1,223,611	1,140,922	924,823	1,173,143
Burnt pyrites	95,075	74,420	79,869	63,405	76,254	115,254
Portugal—						
Iron ore	165,805	236,285	248,398	185,158	189,125	234,152
Burnt pyrites	1	185,801	190,660	130,628	230,658	254,946
Spain	2,109,864	3,211,573	3,414,038	2,122,403	1,769,293	n.a.
Sweden—						
Iron ore	15,407,000	17,032,000	17,191,000	14,576,000	15,224,177	19,500,385
Burnt iron pyrites	157,157	166,061	190,524	123,212	146,345	168,140
Switzerland	180,978	134,840	101,384	62,948	48,760	120,867
U.S.S.R.	8,678,200	8,980,300	10,602,500	11,730,800	13,233,600	14,942,200
Yugoslavia—						
Iron ore	—	—	69,145	156,962	17,779	88,932
Burnt pyrites	—	—	8,690	49,713	19,840	—
Algeria—						
Iron ore	3,567,422	2,450,057	2,701,907	2,286,737	1,991,343	3,517,342
Burnt iron pyrites	16,880	21,087	8,710	5,487	2,000	10,338
Angola	—	6,000	91,184	219,460	322,055	537,180
Egypt	1,995	1,191	44,983	10,574	n.a.	n.a.
Guinea	665,504	819,560	1,003,342	328,549	186,031	715,413
Liberia	1,716,932	2,036,941	2,128,650	2,034,501	2,664,960	2,915,686

(a) Used for purposes other than iron making.

(b) Years ended March 31 following that stated.

EXPORTS OF IRON ORE (cont.)

Long tons

Exporting Country	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Morocco—						
Iron ore	1,286,515	1,812,201	1,908,281	1,278,579	695,005	798,129
Burnt pyrites	<i>n.a.</i>	2,410	4,188	12,255	9,698	1,087
Tunisia	1,090,045	1,164,661	1,156,552	992,661	820,175	1,024,366
Cuba	120,571	135,829	103,398	4,716	<i>n.a.</i>	<i>n.a.</i>
Dominican Republic	99,269	160,144	147,437	20,678	50,424	99,546
Mexico	182,935	132,503	235,359	220,050	114,120	153,355
United States	4,516,828	5,508,296	5,002,153	r 3,573,000	2,967,000	5,236,190
Brazil	2,524,047	2,701,511	3,494,006	2,786,412	3,925,454	5,157,051
Chile	1,217,117	2,038,730	3,025,456	3,580,523	4,193,300	5,265,055
Peru	1,669,830	2,631,339	3,619,109	2,470,195	3,267,400	5,088,840
Venezuela	7,668,355	10,732,364	15,331,377	15,325,626	17,104,257	19,014,669
Iran (a)	<i>n.a.</i>	5,391	12,239	19,756	<i>n.a.</i>	<i>n.a.</i>
Korea (South)	<i>n.a.</i>	<i>n.a.</i>	128,273	185,668	198,217	230,388
Lebanon	41,976	31,403	41,585	21,406	—	<i>n.a.</i>
Philippine Republic	1,400,738	1,928,222	1,128,193	1,039,674	1,258,347	1,217,550
Portuguese India	1,505,314	2,046,770	2,678,408	r 2,465,696	3,627,863	5,590,243
Turkey	336,820	235,372	505,342	262,212	131,262	301,013
New Caledonia	—	21,159	193,311	306,537	283,649	272,834

(a) Years ended March 20 following that stated.

IMPORTS OF IRON ORE
(including Manganiferous Iron Ore)

Long tons

Importing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom	12,859,343	14,330,104	15,912,253	12,898,609	13,349,160	18,013,745
Canada	4,052,483	4,525,769	4,052,704	3,047,237	2,500,894	4,514,596
India	1,271	584	1,475	645	839	(d) 109
Australia (a)	17	41	108,992	268,187	279,226	249,150
Irish Republic	1,715	784	855	1,697	—	14
OTHER COUNTRIES						
Austria—						
Iron ore	840,207	994,492	1,115,344	1,027,342	649,323	1,586,422
Burnt pyrites	321,898	351,626	356,363	391,469	330,520	459,295
Belgium-Luxemburg						
E.U.—						
Iron ore	14,730,547	15,410,093	15,762,572	16,546,142	17,836,735	20,337,109
Burnt iron pyrites	85,708	89,932	61,857	58,981	179,122	87,853
Czechoslovakia	3,864,000	3,841,000	4,845,000	5,082,000	6,284,000	7,042,000
Denmark (b)	7,998	11,337	26,537	5,992	2,736	2,539
Finland	139,370	115,136	160,371	122,199	124,572	159,474
France—						
Iron ore	544,216	633,353	1,034,583	987,116	939,109	1,482,127
Burnt pyrites	—	753	7,571	1,304	2,594	13,876
Germany (Federal)—						
Iron ore	14,098,915	17,543,584	18,820,236	16,693,767	19,719,971	33,122,454
Burnt pyrites	1,610,672	2,365,977	2,052,970	1,581,871	1,668,245	2,952,623
Germany (East)	1,217,368	(c) 683,826	(c) 802,399	(c) 895,500	(c) 1,002,400	(c) 1,170,800
Hungary	1,332,758	1,100,044	1,287,782	1,779,612	1,662,762	1,845,717
Italy	822,567	1,260,244	1,727,149	2,337,722	1,608,330	2,579,590
Netherlands	1,042,679	1,352,751	1,225,804	1,748,087	1,888,875	2,284,179
Norway	3,561	96	5,051	21,974	2,945	10,700
Poland	4,337,000	4,700,000	5,820,000	5,659,000	6,115,000	7,204,000
Roumania	n.a.	n.a.	n.a.	740,900	802,100	908,200
Spain	253,278	283,554	186,743	284,713	77,720	n.a.
Sweden	751	522	16,342	408	3,412	3,752
Switzerland	72,724	61,469	60,918	45,828	45,148	8,840
Yugoslavia	7,000	33,384	85,237	48,090	123,794	127,203
United States—						
Iron ore	23,471,956	30,410,652	33,651,000	r27,544,000	35,617,000	34,584,899
Burnt pyrites	3,879	1,430	567	2,721	10,157	5,884
Argentina	n.a.	n.a.	n.a.	n.a.	181,877	436,786
Formosa	14,842	15,164	23,058	11,814	13,617	n.a.
Japan—						
Iron ore	5,373,233	7,732,133	9,315,884	7,493,525	10,274,816	14,687,616
Burnt pyrites	—	13,075	1,181	—	21,036	110,968

(a) Years ended June 30 of that stated.

(c) Fe content.

(b) Bog ore and burnt pyrites.

(d) Years ended March 31 following that stated.

PRODUCTION OF PIG-IRON AND FERRO-ALLOYS*

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom ..	12,470,000	13,170,100	14,282,600	12,974,500	12,582,500	15,762,900
Southern Rhodesia ..	55,733	58,827	r 71,100	75,700	70,600	n.a.
Union of South Africa ..	1,281,900	1,340,800	1,401,600	1,556,700	1,779,000	1,961,700
Canada	3,040,333	3,400,610	3,502,530	2,832,293	3,855,625	3,942,573
India	1,894,758	1,958,083	1,911,250	2,101,942	3,144,118	4,197,200
Australia (e) ..	1,797,533	2,074,467	2,208,140	r 2,279,282	2,506,514	2,881,951
TOTAL	20,540,000	22,002,900	r 23,377,200	21,820,400	23,938,400	28,820,000
OTHER COUNTRIES						
Austria	1,482,500	1,709,243	1,929,325	1,789,313	1,807,553	2,196,499
Belgium	5,300,060	5,678,951	5,492,532	5,431,759	5,871,000	6,449,000
Bulgaria	8,000	10,200	54,859	89,419	174,125	196,000
Czechoslovakia ..	r 2,935,000	3,230,000	3,507,000	3,714,000	4,177,000	4,621,000
Finland	112,427	101,335	126,495	99,449	94,690	102,931
France (a)	10,787,058	11,298,298	11,726,532	11,777,785	12,275,033	13,921,900
Germany—						
Federal Republic ..	16,222,000	17,299,000	18,068,000	16,396,000	18,103,000	25,332,000
Eastern	1,492,600	1,549,000	1,636,600	1,746,800	1,868,400	1,963,200
Hungary	854,000	(b) 732,000	(b) 755,400	(b) 944,200	(b) 1,086,550	(b) 1,229,519
Italy	1,703,460	1,962,086	2,171,574	2,132,866	2,157,308	2,779,657
Luxemburg	3,036,000	3,260,561	3,314,744	3,233,467	3,357,000	3,725,552
Netherlands	659,000	651,200	689,500	898,800	1,121,400	1,324,300
Norway	349,951	444,716	559,584	513,963	612,649	708,407
Poland	3,062,900	3,450,800	3,624,000	3,803,100	4,305,000	4,491,000
Portugal	n.a.	n.a.	n.a.	16,262	35,260	40,424
Roumania	560,523	573,706	675,271	725,224	833,000	998,000
Saar	2,833,234	2,983,085	3,116,178	3,054,222	3,169,000	(c)
Spain	976,634	927,865	985,285	1,320,853	1,696,623	1,897,002
Sweden	1,226,991	1,389,180	1,518,950	1,391,723	1,480,500	1,606,400
Switzerland	54,100	41,600	45,000	33,000	40,000	50,000
U.S.S.R.	32,784,000	35,189,000	36,454,000	39,000,000	42,293,000	46,019,000
Yugoslavia	522,067	636,078	726,000	767,000	888,000	1,003,000
Mexico	r 322,738	r 401,139	r 422,217	487,745	621,258	764,989
United States	70,771,308	69,263,802	72,141,325	52,507,405	55,516,456	61,219,986
Argentina	35,000	28,000	33,000	28,000	35,000	177,267
Brazil	1,069,747	1,152,855	r 1,250,000	1,351,000	1,474,000	1,853,000
Chile (b)	251,540	361,750	376,000	299,000	286,000	262,000
Colombia	97,284	113,926	140,196	146,412	124,436	164,447
China	3,810,000	4,750,000	5,850,000	13,470,000	20,200,000	27,100,000
Formosa	9,352	8,485	10,935	6,427	8,280	n.a.
Japan	5,356,857	6,186,445	7,075,024	7,635,885	9,790,986	12,196,500
Korea (North) ..	(d) 100,000	183,000	270,000	310,000	(d) 680,000	(d) 1,000,000
Thailand	2,000	4,000	4,000	5,000	7,000	6,000
Turkey	197,400	217,900	213,080	226,493	232,448	243,000
TOTAL	169,000,000	175,800,000	185,000,000	175,400,000	196,000,000	226,000,000
WORLD'S TOTAL ..	189,500,000	197,800,000	208,400,000	197,200,000	220,000,000	255,000,000

* For details see page 153.

(a) Excluding electric furnace ferro-alloys.

(b) Excluding ferro-alloys.

(c) Included with Germany (Federal).

(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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Hematite	1,414,700	1,547,400	1,570,500	1,237,100	1,021,000	1,187,100
Basic	9,295,500	9,981,800	11,265,300	10,314,800	10,284,700	13,072,100
Foundry	1,509,300	1,411,600	1,258,700	1,228,500	1,089,300	1,293,100
Forge	56,600	45,000	29,300	19,500	39,300	5,200
Direct castings	700	1,000	1,000	900	500	100
Spiegeleisen (a)	28,300	29,400	13,200	27,400	25,000	25,600
Ferro-manganese (a)	164,900	153,900	144,600	146,300	122,700	179,700
Union of South Africa—						
Pig-iron	1,239,800	1,278,400	1,337,900	1,488,800	1,676,200	1,792,000
Ferro-alloys	42,100	62,400	63,700	67,900	102,800	169,700
Canada—						
Basic	2,313,984	2,669,841	2,865,546	2,380,094	3,172,255	3,202,271
Foundry	157,777	134,245	93,598	39,067	204,324	248,143
Malleable	399,103	381,810	360,812	312,606	358,041	369,609
Ferro-alloys (c)	169,469	214,714	182,574	100,526	121,005	122,550
India—						
Basic	1,277,557	1,367,276	1,494,751	1,579,659	2,265,491	2,973,314
Foundry	479,393	440,056	294,511	423,245	767,604	1,015,660
Other pig-iron	—	—	—	—	—	85,583
Direct castings	125,882	122,198	112,694	72,527	44,026	34,976
Ferro-alloys	11,926	28,553	9,294	26,511	66,997	87,847
OTHER COUNTRIES						
Belgium—						
Basic	5,129,338	5,527,012	5,347,330	5,306,517	} 5,756,000	6,335,000
Forge	26,743	9,349	9,029	16,100		
Foundry	127,499	125,607	120,340	90,025	93,000	93,000
Ferro-alloys	16,480	16,983	15,833	19,117	22,000	21,000
Czechoslovakia—						
Basic	2,649,000	2,912,000	3,148,000	3,359,000	3,701,000	4,049,000
Foundry	244,000	274,000	313,000	313,000	424,000	507,000
Ferro-alloys	42,000	44,000	46,000	42,000	52,000	65,000
France (b)—						
Phosphoric						
(over 1.4% P)—						
Basic	9,153,762	9,512,717	9,775,737	9,981,745	10,711,249	12,086,300
Foundry	194,724	229,083	266,258	219,144	184,430	181,200
Semi-phosphoric (from 0.5% to 1.4% P)—						
Foundry	353,221	366,041	399,132	354,483	202,288	237,000
Open hearth, basic	6,221	—	2,482	—	—	—
Hematite (less than 0.5% P)—						
Foundry	258,812	256,046	286,615	276,655	276,349	327,100
Open hearth and Bessemer						
.. .. .	244,285	278,872	308,063	294,528	269,880	400,200
Spiegeleisen	124,041	140,188	152,440	131,400	132,636	136,400
Ferro-manganese	199,782	241,798	248,997	219,215	212,283	243,900
Other pig-iron	252,210	273,553	286,808	300,615	285,918	309,800
Germany (Federal)—						
Hematite and malleable						
Basic	734,000	823,000	864,000	784,000	648,000	933,000
.. .. .	10,410,000	11,131,000	11,450,000	10,716,000	11,954,000	16,454,000
Foundry	855,000	749,000	739,000	564,000	522,000	696,000
Stahleisen	3,658,000	3,941,000	4,373,000	3,817,000	4,465,000	6,667,000
Spiegeleisen	} 238,000	} 328,000	} 324,000	} 247,000	} 233,000	} 274,000
Ferro-manganese						
Siegerland special	} 326,000	} 328,000	} 318,000	} 268,000	} 281,000	} 308,000
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	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
(cont.)						
Germany (East)—						
Foundry	305,900	376,000	332,600	409,100	476,100	479,200
Open hearth	850,000	789,700	889,400	929,000	939,300	1,024,900
Basic Bessemer	308,900	361,000	394,800	385,100	419,400	437,000
Spiegeleisen	27,800	22,000	19,800	23,600	33,600	22,100
Italy—						
Pig-iron	1,599,249	1,843,838	2,039,187	2,027,229	2,064,570	2,640,469
Spiegeleisen	13,492	19,048	15,903	21,797	3,811	6,500
Ferro-manganese	39,197	43,383	50,626	26,468	22,556	29,971
Ferro-silicon	27,218	32,615	39,946	29,950	22,501	45,335
Silico-manganese	11,493	10,840	9,644	13,224	21,448	24,277
Ferro-chrome	3,103	3,447	2,737	2,704	13,773	20,218
Ferro-titanium	145	115	185	88	123	154
Ferro-tungsten	84	59	87	35	52	96
Ferro-vanadium	79	37	79	46	36	92
Ferro-molybdenum	361	383	421	398	624	1,048
Silico-aluminium	535	609	641	592	596	636
Other ferro-alloys	8,504	7,712	12,118	10,335	7,218	10,921
Luxemburg—						
Basic	3,036,000	3,260,561	3,314,744	3,233,467	3,357,000	3,725,552
Norway—						
Pig-iron	121,384	188,184	241,197	255,420	332,429	368,377
Ferro-silicon	106,604	105,876	148,945	122,164	124,940	170,148
Other ferro-alloys	121,963	150,656	169,442	136,379	155,280	169,882
Saar—						
Basic	2,588,566	2,731,387	2,848,770	2,826,084	3,169,000	(a)
Other pig-iron and ferro-alloys	244,668	251,698	267,408	228,138		
Spain—						
Pig-iron	948,217	898,612	947,229	1,281,474	1,645,956	1,855,747
Ferro-manganese	21,089	21,617	23,628	24,216	29,976	25,686
Ferro-silicon	7,001	7,393	13,746	14,025	19,555	14,697
Ferro-tungsten	35	42	63	85	87	53
Ferro-chrome	246	196	291	673	725	405
Ferro-phosphorus	46	5	328	380	324	414
Sweden—						
Pig-iron	1,157,017	1,310,898	1,423,228	1,303,175	1,381,000	1,487,100
Ferro-manganese	14,772	13,558	16,827	17,414	15,800	23,800
Ferro-silicon	11,186	14,010	20,987	14,616	20,400	23,300
Ferro-silico-manganese	9,485	10,911	12,964	11,133	10,700	11,600
Ferro-chrome	23,817	26,578	30,597	26,232	36,500	38,700
Ferro-titanium	55	51	130	370	100	—
Ferro-tungsten	467	438	349	203	400	400
Ferro-molybdenum	1,110	1,278	1,610	1,187	1,200	1,800
Ferro-vanadium	200	162	102	129	300	300
Metallic silicon	3,773	3,776	3,812	5,832	2,300	5,500
Silico-chrome	4,428	6,827	7,550	10,756	11,200	12,600
Other ferro-alloys	681	693	794	676	600	1,300
Yugoslavia—						
Pig-iron	505,682	620,615	703,000	736,000	849,000	957,000
Ferro-alloys	16,385	15,463	22,707	31,337	39,446	46,083
United States—						
Basic	55,790,079	55,034,596	58,372,986	43,852,362	46,530,622	52,018,846
Bessemer	6,639,602	5,950,854	5,664,380	3,214,172	2,728,371	3,038,928
Low phosphorus	234,854	450,169	517,869	285,963	334,356	345,768
Foundry	2,459,501	2,141,380	2,035,050	1,433,954	1,679,668	1,310,141
Malleable	3,153,054	3,095,640	3,088,688	2,057,950	2,221,296	2,386,496
Other pig-iron	345,604	352,796	299,043	189,266	250,371	257,543
Ferro-manganese and spiegeleisen	852,834	864,291	929,098	605,710	606,815	784,054
Ferro-silicon and silvery pig-iron	717,215	722,576	643,874	400,264	575,649	611,731
Other ferro-alloys	578,565	651,498	590,337	467,764	589,308	466,479

(a) Included with Germany (Federal).

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

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Brazil—						
Pig-iron	1,051,637	1,134,705	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Spiegeleisen	670	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ferro-chrome	450	258	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ferro-manganese	9,251	9,879	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ferro-nickel	211	319	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ferro-silicon	5,224	4,668	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ferro-silico-manganese	2,304	2,956	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Pig-iron	5,145,627	5,910,928	6,756,755	7,322,779	9,359,418	11,708,500
Spiegeleisen	2,818	4,985	6,022	5,921	3,758	8,059
Ferro-chrome	13,565	29,194	37,380	24,718	68,258	79,150
Ferro-manganese	110,327	129,714	126,765	138,894	155,348	153,145
Ferro-molybdenum	571	1,172	1,714	861	2,026	1,758
Ferro-phosphorus	1,723	2,003	1,998	1,948	1,285	2,126
Ferro-silicon	30,656	42,693	51,653	39,334	64,649	73,876
Ferro-titanium	137	180	82	65	92	223
Ferro-tungsten	341	620	1,077	280	570	1,178
Ferro-nickel	11,885	20,576	33,201	11,816	32,879	52,492
Ferro-vanadium	53	223	245	177	419	845
Silico-manganese	32,191	36,524	46,255	68,843	57,001	56,782
Calcium-silicon	1,751	2,835	4,817	3,217	5,230	7,753
Other ferro-alloys	5,143	4,798	7,060	21,032	40,053	50,612

PRODUCTION OF STEEL INGOTS AND CASTINGS*

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom ..	19,790,600	20,658,900	21,699,100	19,565,700	20,186,400	24,305,000
Southern Rhodesia ..	51,341	56,688	65,493	70,300	45,300	<i>n.a.</i>
Union of South Africa (a)	1,500,800	1,525,300	1,652,100	1,743,000	1,089,100	2,032,400
Canada	4,048,814	4,733,216	4,525,133	3,892,380	5,269,184	5,169,259
India	1,704,259	1,737,929	1,710,191	1,813,070	2,428,953	3,234,017
Pakistan	10,649	10,364	11,695	9,450	9,052	7,371
Australia (f) ..	2,200,555	2,539,061	3,015,569	3,133,081	3,395,261	3,687,183
TOTAL	29,307,000	31,261,500	32,679,300	30,227,000	32,423,300	38,480,000
OTHER COUNTRIES						
Austria	1,794,163	2,044,733	2,469,245	2,355,364	2,472,409	3,112,578
Belgium	5,759,882	6,211,107	6,134,586	5,885,968	6,330,000	7,070,000
Bulgaria	72,500	127,500	156,658	207,249	226,315	(g) 250,000
Czechoslovakia ..	4,403,000	4,805,000	5,084,000	5,422,000	6,039,000	6,661,000
Finland	176,023	193,920	205,402	185,434	232,358	253,392
France	12,392,937	13,186,749	13,873,371	14,384,937	14,978,149	17,007,700
Germany—						
Federal Republic ..	20,823,000	22,999,000	24,120,000	22,425,000	25,414,000	33,562,000
Eastern	2,468,000	2,696,000	2,848,800	2,994,900	3,156,200	3,283,000
Greece	65,000	74,000	(e) 74,000	112,000	89,000	(e) 125,000
Hungary	1,603,000	1,402,000	1,353,000	1,600,500	1,731,398	1,855,589
Italy	5,309,438	5,814,327	6,680,235	6,172,009	6,655,005	8,099,101
Luxemburg	3,174,390	3,401,136	3,437,522	3,325,456	3,605,000	4,019,192
Netherlands	957,800	1,033,600	1,166,500	1,414,800	1,643,400	1,911,800
Norway	168,213	285,467	344,018	365,562	419,672	482,552
Poland	4,356,500	4,935,100	5,220,000	5,574,000	6,062,000	6,575,000
Roumania	754,064	766,831	850,737	918,940	1,397,000	1,777,000
Saar	3,115,053	3,320,808	3,384,340	3,405,632	3,536,000	(d)
Spain	1,193,283	1,223,305	1,324,521	1,535,763	1,781,406	1,926,549
Sweden	2,091,059	2,361,002	2,443,404	2,369,099	2,795,000	3,165,000
Switzerland	163,000	168,000	230,000	240,000	246,000	271,000
U.S.S.R.	44,556,000	47,929,000	50,237,000	54,053,000	59,003,000	64,261,000
Yugoslavia	793,293	872,726	1,032,000	1,101,000	1,279,000	1,419,000
Egypt (e)	85,000	107,000	98,000	170,000	170,000	170,000
Mexico	713,894	874,381	1,032,891	1,097,000	1,306,782	1,515,222
United States (b) ..	104,496,504	102,871,561	100,638,390	76,120,433	83,434,046	88,644,286
Argentina (c)	214,240	200,000	218,000	241,000	210,853	272,669
Brazil	1,144,106	1,343,285	1,452,000	1,565,000	1,772,000	2,246,200
Chile (c)	285,000	375,000	381,000	343,000	409,000	415,000
Colombia	76,265	88,955	112,577	116,166	107,926	151,041
China	2,800,000	4,390,000	5,270,000	10,910,000	13,140,000	18,160,000
Formosa	62,000	78,000	87,000	105,000	156,000	155,000
Japan	9,259,113	10,930,977	12,371,638	11,926,604	16,365,957	21,788,740
Korea (North)	(e) 130,000	(e) 190,000	(e) 280,000	359,000	444,000	631,000
Korea (South)	11,000	10,000	17,859	20,422	39,237	50,528
Philippine Republic ..	—	—	56,000	65,000	(e) 62,000	(e) 62,000
Thailand	4,000	4,000	5,000	5,000	6,000	7,000
Turkey	188,518	189,939	172,737	157,788	210,872	262,235
TOTAL	235,800,000	247,300,000	254,800,000	239,300,000	267,000,000	301,600,000
WORLD'S TOTAL ..	265,100,000	278,600,000	287,500,000	269,500,000	299,400,000	340,100,000

* For details see page 157.

(a) Excluding steel castings for which the amounts produced for sale were 54,100 tons, 52,500 tons, 41,200 tons, 60,200 tons, 58,900 tons and 46,700 tons in 1955, 1956, 1957, 1958, 1959 and 1960 respectively.

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

(c) Ingots only.

(d) Included with Germany (Federal).

(e) United States Bureau of Mines' estimate.

(f) Including recovery from scrap.

(g) Estimated.

DETAILS OF PRODUCTION OF STEEL INGOTS AND CASTINGS
IN CERTAIN COUNTRIES

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ingots and castings—						
Open hearth, acid ..	1,000,200	985,700	960,700	761,500	615,700	658,100
do. basic ..	16,252,200	17,017,500	18,075,200	16,385,100	16,708,300	19,874,700
Bessemer, acid ..	252,200	230,100	250,400	229,200	214,700	294,400
do. basic ..	1,031,600	1,078,300	1,058,300	944,800	1,196,400	1,680,700
Ingots, electric ..	737,400	792,500	793,900	741,600	984,000	1,252,000
Castings, electric ..	361,000	405,200	417,300	384,200	364,400	433,500
All other ingots and castings ..	156,000	149,600	143,300	119,300	102,900	111,600
Southern Rhodesia—						
Ingots	47,769	55,378	64,063	68,000	43,800	n.a.
Castings	3,572	1,310	1,430	1,500	1,500	n.a.
Union of South Africa—						
Ingots—						
Open hearth and Bessemer	1,378,800	1,396,500	1,472,000	1,535,500	1,591,800	1,755,300
Electric	122,100	128,800	180,100	207,500	217,300	277,100
Castings (a)	54,100	52,500	41,200	60,200	58,900	46,700
Canada—						
Ingots—						
Open hearth, basic ..	3,497,456	4,132,837	4,018,515	3,460,241	4,702,930	4,524,709
do. electric ..	472,491	492,539	384,529	345,225	475,066	558,121
Castings—						
Open hearth, basic ..	23,173	28,667	24,175	14,178	13,245	2,405
Bessemer	147	274	18	18	6	3
Electric	55,547	78,899	97,896	72,718	77,937	84,021
India—						
Ingots—						
Open hearth, basic ..	1,578,178	1,624,948	1,598,340	1,706,589	2,289,235	3,119,182
do. acid	25,830	—	—	—	16,910	—
Electric	66,713	70,994	63,582	60,005	76,208	72,035
Castings	33,538	41,987	48,269	46,476	46,600	42,800
OTHER COUNTRIES						
Belgium—						
Ingots, open hearth ..						
do. Bessemer, basic ..	630,338	658,941	622,398	564,324	580,000	600,000
do. electric	4,898,081	5,200,402	5,081,471	5,052,777	5,430,000	6,010,000
Castings	166,892	276,482	351,941	202,999	246,000	368,000
Czechoslovakia—						
Ingots						
Open hearth	3,649,000	3,977,000	4,200,000	4,488,000	5,060,000	5,612,000
Bessemer	215,000	231,000	238,000	244,000	238,000	243,000
Electric	539,000	596,000	647,000	690,000	741,000	806,000
Finland—						
Ingots						
Open hearth	164,699	182,488	192,740	174,252	221,300	241,648
Castings	11,324	11,432	12,662	11,182	11,058	11,744
France—						
Ingots and castings—						
Bessemer, acid ..	78,631	78,526	110,684	135,606	107,281	193,300
do. basic	7,559,856	7,914,062	8,247,933	8,546,479	9,116,375	10,292,700
Open hearth, acid ..	950	1,007	—	—	—	—
do. basic	3,838,241	4,195,671	4,413,398	4,454,386	4,482,433	5,048,900
Crucible	2,901	3,086	2,882	1,976	1,621	2,200
Electric	912,358	994,397	1,098,474	1,246,490	1,270,439	1,470,600
Of which—						
Ingots	12,152,464	12,948,937	13,566,878	14,038,992	14,665,394	16,706,300
Castings	240,473	237,812	306,493	345,945	312,755	301,400
Germany (Federal)—						
Ingots—						
Open hearth	10,964,000	11,708,000	12,435,000	11,326,000	12,342,000	15,674,000
Bessemer, basic ..	8,806,000	9,647,000	10,015,000	9,035,000	10,562,000	14,671,000

(a) Produced for sale.

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

Long tons

Producing Country	1955	1956	1957	1958	1959	1960	
OTHER COUNTRIES							
<i>(cont.)</i>							
Germany (Federal) (cont.)							
Electric	656,000	848,000	1,025,000	1,209,000	1,444,000	1,707,000	
Other	3,000	1,000	54,000	338,000	538,000	849,000	
Castings—							
Open hearth	198,000	208,000	185,000	134,000	128,000	158,000	
Electric	253,000	287,000	302,000	299,000	332,000	433,000	
Other	117,000	123,000	104,000	84,000	68,000	70,000	
Germany (East)—							
Open hearth	1,988,000	2,165,000	2,265,900	2,366,700	2,499,300	2,578,800	
Bessemer, basic	275,900	310,200	334,500	334,400	349,100	373,800	
Electric	203,900	221,000	248,400	293,800	307,800	330,600	
Italy—							
Ingots	5,179,736	5,683,269	6,536,301	6,027,724	6,521,665	7,922,632	
Castings	129,702	131,058	143,934	144,285	133,340	176,469	
Luxemburg—							
Bessemer, basic	3,106,529	3,321,667	3,364,604	3,251,634	3,520,000	3,939,227	
Electric	67,861	79,469	72,918	73,822	85,000	79,965	
Norway—							
Ingots	154,110	269,595	326,413	345,739	401,022	460,752	
Castings	14,103	15,872	17,605	19,823	18,650	21,800	
Saar—							
Ingots—							
Open hearth	684,148	734,549	738,362	756,109	(d) 802,000	(e)	
Bessemer, basic	2,362,828	2,508,279	2,592,721	2,601,152	(d) 2,682,000		
Electric	41,235	44,413	45,515	40,337	(d) 52,000		
Castings—							
Open hearth	4,974	7,173	5,206	5,588	(c)		
Bessemer, acid	1,660	274	—	—	(c)		
Electric	20,208	26,120	2,536	2,446	(c)		
Spain—							
Open hearth and Bessemer	995,375	975,120	1,002,804	1,164,997	1,411,986		1,699,105
Electric	197,908	248,185	321,717	370,766	369,420		227,444
Sweden—							
Open hearth, acid	238,204	274,875	271,695	229,333	} 915,000	1,073,000	
do. basic	527,645	556,385	535,984	526,319			
Bessemer, acid	35,125	41,204	37,439	28,360	34,000	33,000	
do. basic	358,526	409,991	427,315	434,084	391,000	400,000	
Electric	931,559	1,057,633	1,104,995	1,075,537	1,348,000	1,535,000	
Other	—	21,014	65,976	75,466	107,000	124,000	
Yugoslavia—							
Open hearth	746,844	819,002	970,000	1,027,000	1,178,000	1,301,000	
Electric	46,449	53,724	61,900	74,200	100,800	118,400	
United States—							
Ingots—							
Open hearth, acid (b)	495,399	600,532	562,546	337,147	396,414	360,392	
do. basic (b)	93,575,509	91,221,419	90,203,326	67,412,312	72,522,333	76,753,515	
Bessemer	2,963,854	2,882,140	2,209,945	1,246,415	1,232,396	1,061,782	
Oxygen converter (b)	274,356	452,087	545,989	1,181,572	1,664,587	2,987,639	
Electric and crucible (b)	7,187,386	7,715,383	7,116,584	5,942,987	7,618,316	7,481,021	
Castings (a) (c)—							
Open hearth, acid	} 173,352	} 247,967	} 262,921	} 161,416	} 160,092	} 194,091	
do. basic							
Electric, crucible and oxygen converter							
Other	47,516						
Japan—							
Open hearth	7,690,201	8,825,319	9,772,879	9,065,736	12,117,154	14,807,770	
Bessemer, basic	400,267	441,847	446,773	813,186	1,186,262	2,587,061	
Electric	1,168,645	1,663,811	2,151,986	2,047,682	3,062,541	4,393,909	

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

(b) Including steel castings shown below.

(c) Included with ingots.

(d) Including castings.

(e) Included with Germany (Federal).

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

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Pig-iron—						
Forge and foundry ..	29,058	86,550	57,761	109,130	109,943	83,484
Refined	12,020	42,811	49,295	13,989	13,502	15,135
Other	10,097	14,174	22,078	28,568	34,514	47,130
Spiegeleisen and ferro-						
manganese	1,195	966	655	611	596	1,621
Ferro-tungsten	587	1,161	561	993	1,282	1,048
Ferro-molybdenum ..	430	439	161	296	333	245
Ferro-titanium	308	662	393	348	502	276
Ferro-vanadium	23	9	9	7	14	94
Ferro-niobium and ferro-						
niobium-tantalum ..	66	163	82	37	71	97
Other ferro-alloys ..	1,646	2,496	2,147	2,155	7,963	9,333
Iron and steel ingots ..	250					
Blooms, billets and						
slabs—		1,951	4,449	21,746	82,660	25,611
Iron	76					
Steel	2,863					
Old and scrap (a)	9,111	5,948	3,137	242,765	933,063	17,858
Channel Islands (Jersey)—						
Scrap	2,562	2,652	2,523	1,679	2,444	3,108
Malta—						
Scrap	9,047	8,915	10,893	r 7,021	10,793	8,072
Nigeria—						
Scrap	2,839	10,923	22,402	10,872	15,119	13,779
Rhodesia and Nyasaland—						
Pig-iron	195	5,022	10,599	1,882	35,603	44,814
Ferro-chrome	6,616	7,650	8,108	6,384	9,651	9,232
Ferro-silicon	93	64	—	—	—	—
Union of South Africa—						
Pig-iron	21,614	649	2,350	31,474	273,666	220,252
Ferro-alloys	19,171	31,817	32,590	33,635	75,299	130,567
Ingots, blooms, billets,						
etc.	123	415	42	37	34,207	19,551
British West Indies—						
Trinidad and Tobago—						
Old and scrap ..	10,974	11,604	13,199	5,159	12,240	14,036
Canada—						
Pig-iron	227,207	230,024	515,714	300,528	418,156	431,433
Spiegeleisen	—	210	637	—	—	—
Ferro-chrome	11,030	8,837	9,225	9,339	6,709	4,117
Ferro-manganese ..	26,254	53,076	41,726	201	172	651
Ferro-silicon	52,290	68,438	58,004	31,254	31,884	47,235
Other ferro-alloys ..	966	554	690	505	438	1,002
Billets, ingots and						
blooms	237,919	44,246	58,200	52,239	66,182	303,701
Old and scrap	529,221	589,395	610,862	345,667	341,872	376,293
Tin-plate scrap	29,100	28,823	29,892	30,993	33,963	32,640
Hong Kong—						
Pig-iron	—	1,701	1,172	117	7,860	23,753
Old and scrap	64,057	96,897	71,277	100,341	200,634	194,016
Tinplate scrap	2,359	2,444	6,307	2,141	2,783	5,916
India—						
Pig-iron	38,568	13,686	406	—	50,566	(b) 98,720
Ferro-manganese ..	n.a.	n.a.	3,001	10,553	8,114	(b) 47,073
Old and scrap	148,057	175,707	92,944	107,575	280,711	(b) 317,222

(a) Excluding ships intended for breaking up as follows (gross tonnage): 1955—8,602; 1956—10,658; 1957—5,281; 1958—47,450; 1959—97,850; 1960—54,696.

(b) Years ended March 31 following that stated.

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

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
<i>(cont.)</i>						
Malaya—						
Pig-iron	274	277	1,229	502	275	127
Ingots, slabs etc. .. .	105	166	2	72	2,501	120
Scrap	57,111	115,147	99,179	60,897	89,501	74,570
Tin-plate scrap .. .	2,684	2,601	1,894	4,373	1,647	1,959
Australia (a)—						
Pig-iron	60,278	14,425	17,486	16,455	22,668	65,101
Ferro-alloys	11	1	23	7	9	14
Ingots, blooms and billets	7,806	987	1,575	2,529	561	21,431
Old and scrap	49,835	57,545	169,736	117,816	137,333	176,169
Tin-plate scrap .. .	11,642	9,519	9,830	18,755	33,990	18,221
New Zealand—						
Scrap	26,652	53,526	88,699	60,858	52,257	55,221
Irish Republic—						
Old and scrap	19,688	18,523	23,360	18,064	13,632	28,626
OTHER COUNTRIES						
Austria—						
Pig-iron	317,909	333,178	255,369	67,662	73,669	36,790
Ferro-silicon	—	—	196	187	1,787	251
Other ferro-alloys .. .	149	977	292	763	2,182	3,377
Ingots and blooms .. .	37,501	61,619	157,031	22,905	11,310	58,598
Scrap	2,117	3,123	9,371	6,919	7,146	3,365
Belgium-Luxemburg						
E.U.—						
Pig-iron	35,932	19,516	26,228	29,817	46,909	58,940
Spiegeleisen	4,678	3,769	4,299	3,533	4,231	3,290
Ferro-manganese .. .	7,044	4,477	14,088	13,150	13,698	16,017
Other ferro-alloys .. .	54	68	11	741	466	5,083
Crude iron and steel ingots	3,014	8,822	4,436	4,390	18,222	82,689
Steel blooms and billets	408,725	355,264	545,944	762,624	497,200	827,505
Old and scrap	83,963	36,975	93,796	139,881	270,462	439,159
Denmark—						
Old and scrap	26,242	24,833	24,067	23,026	44,879	24,033
Finland—						
Pig-iron	15,369	1,838	27,802	32,069	22,446	32,205
Ferro-alloys	6	2	4	—	—	—
Old and scrap	1,097	2,077	1,681	1,431	5,642	2,733
France—						
Pig-iron	407,674	243,870	183,815	83,781	160,885	228,551
Spiegeleisen	5,500	4,725	425	410	8,041	12,036
Ferro-manganese .. .	96,742	116,822	122,795	83,036	98,939	132,693
Ferro-silicon	12,018	4,055	5,812	4,670	12,881	24,923
Ferro-chrome	11,615	10,130	11,887	10,623	21,100	18,526
Other ferro-alloys .. .	3,051	915	1,732	1,592	3,294	3,462
Ingots	48,744	79,363	84,069	1,971	24,164	81,497
Blooms and billets, forged or rolled	432,417	199,971	154,014	196,692	227,861	138,312
Old and scrap	659,211	544,010	643,651	579,296	1,217,162	1,203,386
Germany (Federal)—						
Pig-iron	301,934	343,452	493,903	333,314	379,152	654,027
Ferro-alloys	28,273	74,113	56,114	16,911	40,000	32,020
Rough, blooms, bars, ingots, etc. .. .	316,921	242,952	492,171	547,973	938,779	1,014,155
Old and scrap	486,968	758,233	742,500	926,421	944,529	1,202,068

(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	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES (cont.)						
Greece—						
Scrap	5,333	4,298	1,900	49	—	—
Hungary—						n.a.
Pig iron	13,827	19,549	—	19,338	19,679	76,075
Iceland—						
Scrap	3,647	6,070	2,952	1,106	4,285	4,660
Italy—						
Pig-iron	16	2,525	232	448	2,610	1,390
Spiegeleisen	—	502	20	74	139	315
Ferro-manganese	550	736	211	322	4,005	3,222
Ferro-silicon	9,988	2,835	3,066	4,618	3,217	4,562
Ferro-silico-manganese	—	—	15	—	5,199	1,444
Ferro-chrome	220	1,707	3,407	5	8,743	7,488
Other ferro-alloys	14	23	—	39	7	17
Ingots	12,911	46,184	95,432	94,669	82,951	120,909
Blooms, billets, etc.	8,934	16,354	34,211	22,192	34,379	3,535
Scrap	1,406	1,589	15,514	437	967	1,311
Netherlands—						
Pig-iron	259,065	183,368	143,603	120,531	141,528	158,926
Ferro-alloys	192	27	86	125	85	157
Ingots, blooms and billets	14	372	138	2,468	654	675
Old and scrap	197,784	259,593	259,058	179,981	272,101	326,392
Norway—						
Pig-iron	51,440	42,811	44,288	58,414	95,071	108,432
Ferro-chrome	25,542	22,594	19,338	14,307	30,604	34,097
Ferro-manganese	64,478	74,264	77,719	41,844	61,938	50,497
Ferro-silicon	73,947	78,678	91,818	80,596	120,950	154,964
Ferro-silico-manganese	30,437	45,811	45,126	44,859	67,411	80,466
Other ferro-alloys	280	697	2,200	2,112	3,842	9,536
Ingots, blooms and billets	3,838	29,850	25,468	38,116	18,545	55,406
Old and scrap	1,208	11,545	4,705	5,693	6,436	4,582
Portugal—						
Old and scrap	33,510	23,071	24,757	22,505	20,562	25,761
Spain—						
Pig-iron	22,205	13,808	984	80,695	186,103	n.a.
Sweden—						
Pig-iron	56,450	40,925	33,533	37,376	37,429	43,938
Sponge iron	21,130	20,072	22,233	17,967	22,890	25,603
Ferro-manganese	1,059	740	1,229	1,382	2,693	1,650
Ferro-silicon	6,844	4,007	3,983	4,199	159	955
Ferro-silico-manganese	35	1	—	—	226	25
Ferro-chrome	10,935	10,516	9,263	9,871	15,597	15,952
Ferro-tungsten	110	59	48	64	184	126
Other ferro-alloys	241	404	362	492	955	1,727
Steel ingots	5,050	2,801	1,023	522	566	250
Steel blooms	—	—	34	—	58,201	97,275
Old and scrap	12,355	9,578	11,274	8,307	10,164	12,541
Switzerland—						
Pig-iron and steel, etc.	4,417	5,733	10,872	3,880	6,362	392
Ferro-alloys	960	1,327	1,849	949	2,200	8,979
Old filings and scrap	2,981	2,657	4,397	3,149	3,943	5,729
U.S.S.R.—						
Pig iron	1,131,200	1,337,900	1,258,100	1,029,400	1,419,700	1,772,400
Ferro-manganese	25,200	30,900	41,000	45,000	49,700	50,000
Ferro-silicon	25,000	37,300	39,600	29,700	43,600	57,200
Other ferro-alloys	36,100	28,200	31,300	33,200	35,800	45,300
Steel ingots and billets	183,200	403,700	421,900	522,500	647,900	759,000
Scrap	51,400	54,800	54,300	53,800	104,000	167,400

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

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Yugoslavia—						
Pig-iron	15,652	16,292	—	—	8,315	—
Spiegeleisen	—	—	—	923	1,865	1,008
Ferro-chrome	3,490	2,857	2,645	7,611	7,871	8,822
Ferro-manganese	4,019	2,877	3,845	7,842	6,538	10,925
Silico-manganese	797	493	787	197	886	1,162
Ferro-silicon	671	563	605	6,126	9,723	9,322
Steel ingots	165	80,820	46,510	19,208	12,807	—
Scrap	445	667	—	—	116	1,166
Algeria—						
Old and scrap	62,874	72,555	88,309	32,295	39,804	51,579
Morocco—						
Old and scrap	46,506	58,000	76,405	29,402	38,801	52,445
Mozambique—						
Scrap	2,213	4,774	5,071	4,077	8,943	9,947
Tunisia—						
Scrap	42,620	55,667	61,507	14,653	21,322	29,811
Cuba—						
Old and scrap	30,195	90,500	271,528	20,738	<i>n.a.</i>	<i>n.a.</i>
Mexico—						
Ferro-alloys	1,275	3,166	2,996	395	2	—
United States—						
Pig-iron	31,240	238,549	787,805	92,275	9,235	99,797
Ferro-manganese	1,597	2,007	6,603	1,255	845	670
Ferro-chrome	4,191	4,945	4,049	1,714	5,470	13,918
Ferro-molybdenum	156	422	171	101	111	190
Ferro-vanadium	196	124	120	68	135	144
Ferro-silicon	1,508	1,888	2,365	1,943	9,427	4,912
Ferro-tungsten	1	1	2	1	34	—
Ferro-titanium	219	325	327	288	286	219
Other ferro-alloys	47,779	67,613	45,160	39,904	44,845	46,198
Steel ingots, slabs, blooms, billets and sheet bars	554,762	323,861	455,670	25,001	13,142	66,539
Scrap (a)	4,580,313	5,660,947	5,690,604	2,598,575	4,387,537	6,326,729
Brazil—						
Pig-iron	20,549	92,109	29,632	—	984	14,369
Ferro-alloys	98	1,082	1,673	—	—	—
Chile—						
Pig-iron	—	19,777	17,829	150	1,476	<i>n.a.</i>
Ferro-manganese	7,903	2,996	5,712	5,822	2,735	<i>n.a.</i>
Peru—						
Scrap	—	11,924	8,842	—	—	—
Indonesia—						
Scrap	45,741	79,016	53,709	13,996	26,544	6,428
Japan—						
Pig-iron	82,302	48	4	11,023	76	148
Ferro-chrome	2,576	3,570	5,223	4,081	17,273	14,533
Ferro-manganese	41,532	53,131	35,490	47,900	33,269	38,914
Ferro-silicon	2,372	1,132	595	1,013	1,253	405
Ferro-silico-manganese	7,437	7,405	9,844	21,611	9,633	2,684
Other ferro-alloys	—	5,607	11,203	513	504	458
Ingots, blooms and billets	343,422	218,165	38,005	58,051	9,132	692
Scrap	599	42	—	39	23	23
Korea (South)—						
Scrap	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	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES (cont.)						
Lebanon—						
Scrap	8,772	8,705	10,924	3,577	7,153	9,683
Philippine Republic—						
Scrap	20,112	33,451	36,913	—	162	—
Thailand—						
Scrap	3,765	8,615	11,915	1,080	285	2,874
Turkey—						
Ingots and blocks ..	19,657	—	8,070	—	—	—
Old and scrap	2,981	3,862	11,476	261	1,020	1,041

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

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Pig-iron—						
Charcoal	570	10,335	483	662	448	876
Forge and foundry	7,827	992	—	573	2,981	2,033
Hematite	66,582	40,775	7,362	5,573	28,885	36,300
Basic	588,884	490,125	305,237	137,130	58,480	178,122
Other pig-iron	6,627	5,611	4,165	6,892	5,385	4,092
Sponge-iron	2,830	2,499	3,393	3,545	4,500	5,799
Spiegeleisen and ferro-						
manganese						
Ferro-silicon	16,550	41,674	83,254	18,087	28,807	35,778
Ferro-silicon-chrome	70,361	80,062	77,499	55,277	63,334	95,730
Ferro-chrome	1,695	2,313	2,097	1,744	1,623	3,595
Silico-manganese	26,187	26,211	29,192	25,764	31,901	47,348
Other ferro-alloys	10,308	13,977	13,845	16,122	22,685	29,235
Iron and steel ingots	1,740	1,646	1,454	1,077	1,175	1,611
Blooms, billets, slabs—	183,103	115,501	11,420	711	833	30,617
Iron	633	16	223	—	—	202
Steel	291,483	256,881	234,905	82,675	1,768	221,607
Old and scrap (a)	1,271,720	981,447	665,574	64,766	2,873	278,603
Kenya—						
Pig-iron	701	740	1,273	140	279	862
Ingots, blooms, etc.	1,833	2,076	1,555	1,753	1,360	1,768
Mauritius—						
Pig-iron, ingots, etc.	6	17	28	56	30	40
Rhodesia and Nyasaland—						
Pig, ingots, etc.	305	285	146	298	357	1,359
Tanganyika—						
Pig-iron	206	24	80	74	37	75
Ferro-alloys	—	272	488	805	790	666
Ingots, blooms, etc.	873	127	806	477	271	310
Union of South Africa—						
Pig-iron and steel ingots	19	11,094	16,888	2,216	6	689
Ferro-silicon	—	22	28	400	204	627
Other ferro-alloys	118	186	205	175	240	184
Canada—						
Pig-iron	11,962	11,283	6,287	23,659	18,937	7,662
Sponge iron	379	284	308	251	331	513
Ferro-manganese	3,522	1,956	664	2,217	2,084	13,835
Ferro-silicon	376	589	723	1,101	2,263	3,455
Ferro-tungsten	51	92	76	89	370	438
Silico-manganese	243	1,009	2,015	1,950	2,669	2,112
Other ferro-alloys	5,068	6,502	5,045	r 4,011	10,352	8,613
Ingots, blooms and billets	3,338	12,244	18,994	5,011	11,254	27,396
Scrap	391,471	r 662,467	431,137	258,397	587,822	524,877
Trinidad and Tobago—						
Pig-iron	21	57	10	48	6	11
Ingots, etc.	41	55	775	132	846	685
Ceylon—						
Pig-iron	429	350	227	948	862	350
Ingots, blooms, billets	1,209	4,630	3,201	2,483	1,600	2,425
Cyprus—						
Pig-iron	103	687	1,899	—	10	33
Hong Kong—						
Pig-iron	2,442	10,395	6,275	3,017	10,433	29,908
Ingots, blooms and billets	186	959	1,504	561	594	1,418
Old and scrap	20,920	20,141	30,281	14,234	24,439	27,573
Tinplate scrap	8,525	8,166	12,113	8,932	13,093	16,660

(a) Excluding ships intended for breaking up as follows (gross tonnage): 1955—149,890; 1956—28,717; 1957—18,297; 1958—4,740; 1959—38,051; 1960—284,532.

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

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
<i>(cont.)</i>						
India—						
Pig-iron	—	47,420	113,608	100,443	67,993	(b) 10,870
Ingots, blooms and billets	40,389	125,846	228,710	226,917	138,255	(b) 35,404
Ferro-chrome	193	77	259	131	271	(b) 410
Ferro-manganese	481	291	275	200	150	(b) 155
Ferro-silicon	266	191	18	38	689	(b) 3,637
Other ferro-alloys	192	212	544	711	1,111	(b) 1,435
Old and scrap	1,005	23,271	8,966	4,553	29,807	(b) 12,983
Malaya—						
Pig-iron	3,593	3,847	3,599	2,346	2,761	3,958
Ferro-alloys	70	68	43	2	27	11
Ingots, slabs, etc.	316	490	1,500	3,362	2,343	3,543
Scrap	2,365	5,671	4,841	3,493	1,197	1,426
Tinplate scrap	4,659	5,974	7,489	7,765	8,735	12,568
Pakistan—						
Pig-iron	(b) 13,427	12,426	27,769	18,174	67,432	63,876
Ferro-alloys	(b) 806	—	104	81	74	359
Ingots, blooms and billets	(b) 66,050	52,204	85,215	85,061	56,302	39,750
Old and scrap	(b) 47	11	139	692	94	145
Australia (c)—						
Pig-iron	—	(a) 158	—	—	—	—
Ferro-manganese	2,206	10,357	2,781	4,908	3,650	18,634
Ferro-chrome	994	1,701	1,911	1,240	2,680	3,409
Ferro-molybdenum	97	114	158	129	140	106
Ferro-silicon	n.a.	3,531	7,228	7,191	8,256	8,383
Other ferro-alloys	7,481	848	397	698	810	451
Other ingots and billets	148	345	187	34	6	7,504
Scrap	175	(a) 1,497	(a) 729	(a) 510	(a) 20	(a) 221
New Zealand—						
Pig-iron	8,306	8,553	5,480	9,755	7,332	8,107
Ferro-alloys	8	6	20	64	73	135
Billets and blooms	170	265	323	211	1,089	157
Irish Republic—						
Pig-iron	7,292	6,368	3,635	3,210	3,534	3,150
Ferro-alloys	448	455	295	348	519	655
Ingots, blooms and billets	6,314	5,620	1,114	5,077	13,015	3,601
Old and scrap	64	2	5	3	1	—
OTHER COUNTRIES						
Austria—						
Pig-iron	5,982	8,332	9,492	11,498	7,771	156,408
Ferro-manganese	5,951	7,219	7,518	8,268	5,818	9,473
Ferro-silicon	6,629	7,205	8,603	6,289	8,985	10,099
Other ferro-alloys	8,915	9,871	11,445	7,545	14,993	19,324
Ingots and blooms	13,116	5,062	1,151	2,574	14,824	10,197
Scrap	83,834	134,723	208,099	61,958	47,787	119,810
Belgium-Luxembourg						
E.U.—						
Pig-iron	378,975	406,118	304,020	227,278	336,614	364,542
Sponge-iron	615	151	302	205	260	752
Spiegeleisen	8,994	19,451	16,642	20,666	7,118	7,099
Ferro-chrome, etc.	2,224	2,813	1,834	2,031	2,759	4,258

(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	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Belgium-Luxembourg						
E.U. (cont.)—						
Ferro-manganese	62,357	71,532	80,948	46,626	55,300	58,558
Ferro-silico-manganese	1,640	3,002	2,553	2,317	2,494	3,378
Ferro-molybdenum	166	177	242	65	265	482
Ferro-silicon	12,060	17,636	17,034	11,388	15,204	20,333
Ferro-tungsten	52	69	31	29	71	80
Other ferro-alloys	376	687	539	482	571	943
Crude iron and steel ingots	23,182	947	4,452	3,705	22,618	26,439
Blooms and billets	48,486	45,711	37,226	38,444	65,176	52,486
Old and scrap	358,227	704,917	527,466	304,605	240,913	192,680
Czechoslovakia—						
Pig iron	<i>n.a.</i>	199,000	233,000	246,000	188,000	207,096
Denmark—						
Pig-iron	57,298	56,135	69,673	39,428	55,407	84,902
Ferro-chrome	211	356	132	236	321	450
Ferro-manganese, etc.	2,716	2,412	2,460	2,219	2,275	2,638
Ferro-silicon	2,616	4,617	3,609	2,321	1,829	3,964
Other ferro-alloys	418	40	69	64	187	522
Old and scrap	4,670	1,445	6,605	4,116	3,007	977
Finland—						
Pig-iron	7,598	6,465	5,302	1,834	3,788	2,927
Billets	29,626	48,450	51,882	15,431	135,800	135,217
Ferro-manganese and spiegeleisen	1,754	2,556	2,925	1,363	2,176	3,338
Other ferro-alloys	2,219	3,008	3,446	2,312	5,145	6,997
Old and scrap	66,399	47,051	49,639	48,006	75,693	94,006
France—						
Pig-iron—hematite	113,391	102,602	184,893	129,831	93,560	115,784
do. other	13,709	16,922	18,007	17,939	19,206	33,754
Spiegeleisen	16,589	16,561	26,816	16,552	10,786	7,317
Ferro-manganese	6,012	887	40	3,405	4,665	6,333
Ferro-silicon	57	126	176	66	12	81
Ferro-chrome	20	5	2	19	12	285
Ferro-nickel	13,911	13,566	16,492	11,195	10,005	23,248
Other ferro-alloys	128	24	163	21	267	154
Ingots	7,515	29,434	45,543	22,400	19,430	86,139
Blooms and billets, rolled or forged	233,342	115,431	127,895	256,700	315,174	637,978
Old and scrap	363,023	656,566	624,356	557,936	305,955	487,660
Germany (Federal)—						
Pig-iron	195,520	126,369	68,912	273,363	324,088	387,415
Ferro-alloys	103,786	73,756	72,410	99,420	159,273	224,964
Rough blooms, ingots, bars, etc.	142,065	247,827	248,348	204,960	272,956	563,425
Old and scrap	1,110,300	583,533	1,270,900	354,508	612,524	1,008,926
Germany (East)—						
Pig-iron	289,755	338,818	436,629	547,700	629,600	696,400
Greece—						
Pig-iron	31,367	33,920	33,105	55,190	74,830	<i>n.a.</i>
Ferro-alloys	<i>n.a.</i>	929	1,003	1,200	741	543
Ingots, blooms, slabs, etc.	54,244	86,187	73,298	91,137	78,661	104,155
Scrap	1,734	1,320	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Hungary—						
Pig iron	118,362	134,871	123,171	38,061	59,246	41,767
Ferro-chrome	1,416	1,695	2,207	1,754	2,130	2,260
Ferro-manganese	4,884	5,186	7,121	5,834	6,672	6,649
Ferro-silicon	598	—	1,669	1,378	143	2,828
Other ferro-alloys	300	386	310	203	218	153
Ingots	74,423	51,900	105,872	146,429	158,117	207,816

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

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Italy—						
Pig-iron	341,088	335,981	381,921	329,628	370,340	666,842
Spiegeleisen	2,506	2,145	168	4,431	2,265	7,471
Ferro-chrome	3,401	6,456	5,870	6,132	8,359	15,116
Ferro-manganese	3,857	8,211	9,257	18,136	20,182	28,579
Ferro-silicon	243	702	2,628	2,419	2,853	1,492
Ferro-silico-manganese	538	1,129	2,840	2,001	1,767	1,991
Ferro-molybdenum	169	276	303	(a)	(a)	(a)
Ferro-titanium	101	209	146	272	234	286
Ferro-tungsten	100	37	79	55	41	227
Ferro-vanadium	36	38	65	(a)	(a)	(a)
Other ferro-alloys	58	85	70	497	437	1,038
Ingots	27,285	42,402	113,097	64,998	83,008	213,503
Blooms, billets, etc.	121,513	97,032	80,389	95,497	109,174	396,011
Old and scrap	2,231,987	2,279,768	2,779,294	2,769,895	2,588,339	3,169,356
Netherlands—						
Pig-iron	15,661	22,711	20,981	13,692	17,144	22,704
Spiegeleisen	1,064	1,410	1,446	512	1,672	6,199
Ferro-manganese	7,376	7,100	10,278	9,103	8,806	12,807
Ferro-chrome	165	258	186	244	290	499
Ferro-silicon	2,274	3,548	3,837	2,188	2,665	3,797
Ferro-silico-manganese	236	513	277	229	372	452
Ferro-molybdenum	32	40	35	35	21	46
Other ferro-alloys	65	101	152	515	644	564
Ingots, blooms, billets, etc.	241,492	118,886	175,330	140,317	91,672	164,442
Old and scrap	68,580	60,276	63,505	52,373	64,884	94,016
Norway—						
Pig-iron	21,171	16,010	12,763	11,848	9,566	9,940
Ferro-tungsten and ferro-vanadium	26	31	57	18	13	32
Other ferro-alloys	165	190	1,438	181	93	138
Ingots, blooms, billets, etc.	4,259	7,862	3,913	7,460	1,720	2,459
Old and scrap	15,863	15,768	8,280	1,695	65	14,055
Portugal—						
Iron and steel ingots	12,933	10,452	12,306	12,202	1,749	156
Old and scrap	2,920	2,769	3,179	4,174	2,622	3,656
Roumania—						
Ferro-alloys	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	17,300	20,100	24,900
Spain—						
Pig-iron	1,455	1,285	14,384	2,615	1,048	<i>n.a.</i>
Ferro-manganese	1,729	163	342	120	629	<i>n.a.</i>
Other ferro-alloys	571	590	398	675	1,256	<i>n.a.</i>
Ingots and blooms	223	5	1,444	858	130	<i>n.a.</i>
Old and scrap	62,657	83,431	69,158	169,997	115,641	155,000
Sweden—						
Pig-iron	97,461	143,769	89,818	91,467	142,842	212,019
Spiegeleisen	76	221	88	59	98	118
Ferro-manganese	3,032	6,952	7,016	3,176	5,765	6,138
Ferro-chrome	1,883	8,082	5,430	2,398	6,318	13,164
Ferro-silicon and ferro-silico-manganese	1,735	5,110	4,249	2,319	6,024	8,989
Ferro-tungsten	49	158	141	62	185	411
Other ferro-alloys	1,097	1,919	4,139	1,314	1,518	5,273
Old and scrap	68,176	23,185	36,212	58,971	198,871	297,070
Switzerland—						
Pig-iron, steel billets, blooms, etc.	155,713	185,731	157,291	87,245	152,538	214,793
Ferro-alloys	4,036	4,580	4,490	5,201	4,230	9,139
Old, filings and scrap	28,602	22,910	12,134	9,717	48,613	44,002

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

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

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
U.S.S.R.—						
Pig-iron	573,800	489,700	150,000	157,100	135,900	205,100
Ferro-alloys	5,000	5,200	4,700	4,800	2,400	13,200
Yugoslavia—						
Pig-iron	523	10,468	12,380	37,491	54,460	64,292
Ferro-alloys	373	683	553	537	854	1,172
Ingots	—	—	469	1	3,104	33,382
Scrap	21,831	21,987	55,975	36,916	20,010	63,072
Algeria—						
Pig-iron	1,102	491	413	495	641	403
Spiegeleisen and ferro-alloys	538	626	552	775	808	898
Ingots, blooms and billets	21,122	20,329	22,164	22,398	14,665	13,858
Old and scrap	408	140	47	12	1,681	1,456
Congo Republic—						
Pig-iron	3,017	1,686	647	289	95	n.a.
Ferro-alloys	75	208	379	710	285	n.a.
Egypt—						
Pig-iron and spiegeleisen	3,427	7,473	6,645	16,997	12,209	19,619
Ferro-alloys	1,286	1,157	3,286	2,587	4,911	2,049
Ingots, billets, etc. .. .	2,158	535	200	2,976	26	295
Scrap	4,139	2,305	3,322	4,068	7,721	4,783
Morocco—						
Pig-iron	929	579	688	831	560	824
Ferro-alloys	146	151	138	141	96	135
Scrap, etc.	1,128	176	335	9,813	5,456	1,608
Sudan—						
Crude iron and steel .. .	7,108	5,415	11,289	10,416	9,318	18,454
Tunisia—						
Pig-iron	77	59	106	144	189	118
Old and scrap	1,431	388	2,084	571	80	163
Cuba—						
Pig-iron	503	148	374	292	n.a.	n.a.
Ingots, blooms, etc. .. .	36	—	40,214	38,413	n.a.	n.a.
Mexico—						
Pig-iron	5,347	27	—	5	—	—
Ferro-manganese	145	159	160	1,192	730	158
Other ferro-alloys	2,784	2,659	3,342	3,805	3,032	1,673
Ingots, blooms and billets	43,500	50,787	120,531	87,408	39,619	2,468
Scrap	206,359	302,892	293,608	288,036	378,445	371,683
Tin-plate scrap	24,208	28,740	15,933	6,446	10,804	12,184
Salvador—						
Ingots, blooms, billets	477	1,242	794	322	106	1,218
Scrap	462	859	420	274	298	321
United States—						
Pig-iron	253,177	291,697	201,238	187,271	624,637	295,399
Spiegeleisen	—	209	—	—	—	—
Ferro-chrome	27,054	35,607	42,562	22,124	83,331	44,096
Ferro-manganese	58,029	143,038	301,856	57,082	80,412	107,341
Ferro-silicon	21,749	19,658	17,772	10,369	15,613	15,954
Ferro-titanium	28	101	114	90	113	74
Ferro-tungsten	373	479	225	87	294	100
Sponge iron	4,000	3,552	1,442	1,303	1,522	1,869
Bar-iron, slabs, blooms, etc.	71	83	101	61	73	65
Steel ingots, blooms, etc.	130,447	23,341	6,953	16,016	81,937	60,502
Scrap	175,332	199,050	181,613	264,160	239,142	123,828
Tin-plate scrap	28,721	29,137	31,431	32,824	37,151	36,402

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

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Argentina—						
Pig-iron	186,891	56,096	136,889	93,281	135,456	129,223
Ferro-manganese	698	1,908	—	—	—	292
Ferro-silicon	623	—	17,870	17,946	9,578	13,392
Ingots	596,307	438,246	415,594	630,941	559,085	442,721
Old and scrap	—	—	—	—	909	1,065
Brazil—						
Ferro-manganese	49	—	73	63	819	45
Ferro-silicon	543	205	53	78	2,156	355
Ferro-chrome	54	44	83	250	269	585
Other ferro-alloys	120	84	169	193	71	155
Chile—						
Pig-iron	497	108	238	51	<i>n.a.</i>	<i>n.a.</i>
Ferro-manganese	22	29	—	—	<i>n.a.</i>	<i>n.a.</i>
Ferro-silicon	93	47	29	3	<i>n.a.</i>	<i>n.a.</i>
Other ferro-alloys	13	9	59	234	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Pig-iron	199	—	—	—	5	—
Ingots, etc.	451	851	314	620	50	—
Blooms, billets, etc.	107	652	1	29	20	—
Ferro-alloys	590	1,761	2,161	976	4,058	3,611
Peru—						
Pig-iron	849	752	455	483	197	113
Ferro-alloys	239	280	326	334	460	428
Uruguay—						
Ingots	23,265	30,857	20,807	36,127	34,439	29,314
Ferro-alloys	<i>n.a.</i>	<i>n.a.</i>	308	290	328	222
Venezuela—						
Pig-iron and scrap	4,521	2,926	255	19,677	19,827	231
Ferro-alloys	306	808	704	867	682	274
Formosa—						
Blooms, billets, etc.	7,367	4,363	4,624	4,584	1,942	<i>n.a.</i>
Ferro-alloys	405	608	902	884	326	<i>n.a.</i>
Old and scrap	2,135	37,609	38,821	44,912	68,843	<i>n.a.</i>
Iran (a)—						
Old and scrap	<i>n.a.</i>	4,288	3,548	1,746	<i>n.a.</i>	<i>n.a.</i>
Israel—						
Pig-iron	2,808	2,903	10,371	14,306	24,044	<i>n.a.</i>
Ferro-alloys	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	477	1,121	<i>n.a.</i>
Japan—						
Pig-iron	18,225	307,949	930,467	2,290	272,621	980,531
Ferro-alloys	163	316	411	97	2	10
Ingots, blooms and billets	1	16,235	242,506	—	696	3,736
Old and scrap	1,266,633	2,537,273	3,275,553	1,326,785	3,987,543	4,355,670
Lebanon—						
Pig-iron	2,687	4,793	1,477	2,044	7,191	5,442
Ferro-alloys	279	59	4	5	63	—
Old and scrap	2,586	2,180	2,080	141	2,449	2,281
Philippine Republic—						
Ferro-alloys	224	493	620	1,074	712	502
Ingots, blooms and billets	<i>n.a.</i>	13,167	33,083	2,583	1,416	1,856
Syria—						
Pig-iron	364	347	188	867	842	1,383
Scrap	475	571	817	686	1,426	1,337
Thailand—						
Pig-iron	285	324	514	606	435	501
Ferro-alloys	158	307	321	495	791	418
Turkey—						
Ferro-alloys	132	711	357	1,049	369	955

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

LEAD
PRODUCTION OF LEAD ORE
(Metal content)

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom ..	7,443	7,267	8,094	4,165	1,809	1,412
Nigeria (a) ..	16	45	450	487	378	199
Northern Rhodesia (b) ..	16,050	15,200	15,078	13,043	14,400	14,429
Southern Rhodesia ..	14	17	23	—	—	17
South West Africa ..	80,700	86,348	82,453	74,818	69,242	63,800
Tanganyika (c) ..	3,601	5,116	4,851	4,465	5,715	6,014
Uganda ..	47	108	15	229	53	—
Union of South Africa ..	499	812	1,092	32	150	121
Canada (d) ..	181,037	168,620	162,039	166,679	166,693	168,988
Hong Kong ..	203	105	70	16	—	—
India ..	2,228	2,843	3,274	3,493	4,790	4,456
Australia ..	295,944	299,485	333,753	328,347	316,293	308,165
TOTAL ..	587,800	586,000	611,192	596,224	579,523	567,600
Irish Republic ..	2,617	2,285	1,852	r —	1,318	(g) 1,400
OTHER COUNTRIES						
Austria ..	5,417	5,367	5,884	6,048	6,028	5,695
Bulgaria ..	47,545	54,000	62,100	69,500	79,200	(e) 82,700
Czechoslovakia (e) ..	4,900	5,900	5,900	5,900	6,300	6,400
Finland (f) ..	762	1,389	2,342	2,216	1,898	1,567
France ..	8,985	8,732	12,090	13,149	16,370	19,300
Germany—						
Federal Republic ..	66,370	64,448	69,996	r 60,012	51,722	49,106
East (g) ..	6,000	6,000	7,000	7,000	7,000	7,000
Greece ..	4,532	6,348	6,373	8,820	8,629	n.a.
Italy ..	r 47,481	r 49,030	r 52,970	53,589	47,970	46,328
Norway ..	699	792	884	2,099	2,220	2,482
Poland ..	35,800	32,500	29,500	32,600	34,800	38,600
Portugal ..	1,441	1,218	1,355	888	31	31
Roumania (b) ..	10,900	(g) 11,000	(g) 11,000	(g) 11,000	(g) 11,000	(g) 11,000
Spain ..	62,407	60,207	64,191	68,491	68,992	71,744
Sweden ..	31,660	32,230	35,893	41,602	45,800	52,500
U.S.S.R. (b) (g) ..	250,000	260,000	280,000	300,000	320,000	340,000
Yugoslavia ..	88,659	85,945	88,664	88,423	90,990	(e) 94,500
Algeria ..	r 10,397	r 10,488	r 10,133	r 9,906	10,869	10,331
Angola (i) ..	184	92	17	88	12	n.a.
Congo Republic ..	81	(e) 100	(e) 200	—	—	—
Congo (Republic of) ..	3,405	2,960	1,810	3,200	4,600	4,233
Egypt ..	128	118	250	(e) 290	690	(e) 690
Morocco ..	87,959	86,050	91,300	r 92,389	90,300	93,000
Tunisia ..	26,145	23,078	23,525	22,160	17,860	17,360
Cuba ..	62	84	63	n.a.	—	—
Greenland ..	—	3,000	7,332	8,588	10,386	6,820
Guatemala ..	4,539	8,006	11,192	7,846	5,697	8,422
Honduras ..	1,751	2,067	(h) 2,638	3,018	4,111	5,279

(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; 1960—n.a.

PRODUCTION OF LEAD ORE (cont.)

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES (cont.)						
Mexico (a)	207,486	196,457	211,482	198,734	187,668	187,658
United States (a)	301,808	315,023	301,979	238,729	228,202	220,240
Argentina	22,300	28,823	30,500	29,000	29,000	28,000
Bolivia (c)	r 16,741	r 19,641	r 23,488	r 21,648	21,429	20,985
Brazil (d)	3,596	4,371	3,462	r 4,562	5,500	(e) 6,900
Chile	3,905	3,212	2,775	2,514	2,285	(e) 2,900
Ecuador	83	114	108	118	105	106
Peru	116,875	127,036	134,986	132,043	113,396	126,885
Burma	16,856	15,586	14,612	18,911	19,000	17,000
China (e)	29,000	36,000	38,000	46,000	64,000	68,000
Iran (e) (f)	17,800	16,700	16,700	16,700	14,700	14,700
Japan	25,761	29,058	35,502	r 36,114	35,575	39,191
Korea (South) (b)	600	1,300	850	1,200	200	900
Korea (North) (b)	10,000	30,000	35,000	40,000	45,000	45,000
Philippine Republic	2,281	2,106	801	1,264	349	120
Thailand	5,233	3,946	2,987	979	1,500	2,000
Turkey	3,447	5,573	4,146	3,019	2,137	n.a.
TOTAL	1,600,000	1,600,000	1,700,000	r 1,800,000	1,700,000	1,800,000
WORLD'S TOTAL	2,200,000	2,200,000	2,300,000	r 2,400,000	2,300,000	2,400,000

- (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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom ..	(a) 6,100	6,699	7,431	3,710	1,410	1,034
Northern Rhodesia ..	16,050	15,200	15,078	13,043	14,400	14,429
Canada	132,867	132,022	127,621	118,738	120,800	141 527
India	2,234	2,497	3,175	3,334	3,895	3,716
Australia (c) ..	224,526	236,164	239,052	248,645	236,115	242,546
TOTAL	381,800	392,600	392,357	387,470	376,600	403,252
OTHER COUNTRIES						
Austria (b)	10,105	9,887	10,762	11,386	11,292	11,211
Belgium (b)	81,469	100,638	97,696	92,324	87,044	91,241
Bulgaria	3,300	5,913	18,995	25,658	32,223	39,000
Czechoslovakia (a) ..	8,000	9,000	9,000	9,000	9,000	9,000
France	68,272	62,324	72,622	72,118	70,150	73,205
Germany—Federal ..	105,887	114,658	135,665	132,130	147,172	145,332
do. East (a) (b) ..	30,000	30,000	22,100	25,000	25,000	25,000
Greece	2,478	3,405	3,560	3,866	3,680	(d) 3,500
Italy	41,826	40,037	39,022	47,243	44,320	42,908
Poland	33,700	34,600	35,137	35,200	38,100	39,100
Portugal	957	838	740	1,644	782	891
Roumania	10,900	(a) 11,000	(a) 11,000	(a) 11,000	(a) 11,000	(a) 11,000
Spain	60,832	64,724	58,019	69,401	67,408	70,057
Sweden	20,890	22,815	24,483	32,548	36,267	43,850
U.S.S.R. (a)	250,000	260,000	280,000	300,000	320,000	340,000
Yugoslavia	74,418	74,562	77,264	82,950	84,046	87,735
Morocco	26,268	27,672	30,752	32,601	28,000	31,185
Tunisia	25,406	23,768	24,168	24,748	21,464	19,548
Guatemala	—	131	—	—	50	179
Mexico	195,050	193,591	197,703	192,622	185,967	164,019
United States (e) ..	427,674	484,171	476,315	419,090	304,362	341,461
Argentina	17,700	23,900	25,500	32,300	33,600	28,900
Bolivia (f)	2,080	1,572	2,314	784	223	46
Brazil	3,596	4,371	3,462	r 4,562	5,500	(d) 6,900
Chile	495	r —	—	r 287	796	—
Peru	59,509	58,864	67,843	63,433	55,910	71,745
Burma	19,088	19,543	19,478	17,098	19,337	13,161
China (a) (b)	17,200	20,000	r 40,000	r 60,000	75,000	70,000
Iran (g)	1,220	1,411	(d) 690	935	(d) 900	n.a.
Japan	32,498	40,756	48,281	37,869	59,957	68,273
Korea (North)	(d) 7,900	(d) 14,000	(d) 16,700	(a) 20,000	(a) 25,000	(a) 25,000
Turkey	(d) 1,560	(d) 2,000	(d) 2,000	2,657	1,612	393
TOTAL	1,600,000	1,800,000	1,800,000	r 1,900,000	1,800,000	1,900,000
WORLD'S TOTAL ..	2,000,000	2,200,000	2,200,000	r 2,300,000	2,200,000	2,300,000

(a) Estimated.

(b) Including secondary metal.

(c) Including lead in base bullion as follows:

Year	Long tons	Year	Long tons
1955	37,392	1958	57,171
1956	41,658	1959	50,310
1957	46,891	1960	52,723

(d) United States Bureau of Mines' estimate.

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

Year	Long tons	Year	Long tons
1955	448,260	1958	358,738
1956	452,460	1959	403,024
1957	436,812	1960	419,556

(f) Exports.

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

EXPORTS OF LEAD, ETC.

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Pig-lead	3,160	7,141	10,962	12,732	9,340	15,317
Sheets and pipes	1,769	1,652	1,811	1,786	1,588	2,091
White lead	1,776	1,663	1,744	1,815	1,769	2,400
Litharge, red lead, etc. . . .	3,397	2,437	2,953	3,815	3,532	3,811
Nigeria—						
Ore and concentrates	73	105	908	780	1,208	838
Rhodesia and Nyasaland—						
Ore	—	8	96	—	10	57
Pig, bar and ingot	12,520	14,620	12,260	10,938	13,124	12,052
South West Africa—						
Complex concentrates (Pb content)	(b) 76,854	(b) 81,558	81,097	73,692	61,192	60,542
Lead-vanadium concentrates	6,842	5,368	3,731	3,578	4,612	7,716
Tanganyika—						
Concentrates (Pb content)	3,601	5,116	4,851	4,465	5,715	6,014
Uganda—						
Ore	74	117	61	100	200	67
Union of South Africa—						
Ore	—	298	1,398	—	—	—
Pig, ingot and sheets	85	17	67	96	65	96
Canada—						
Ore (Pb content)	51,932	44,620	39,435	48,287	47,970	45,835
Pig-lead, etc.	82,772	71,101	75,483	82,456	82,368	86,115
Scrap	559	145	r 305	385	2,701	5,971
Pipes and tubes	20	19	24	5	7	8
White lead	6	7	15	591	745	972
Hong Kong—						
Ore and concentrates	376	200	175	117	—	—
Crude and refined unwrought (a)	412	160	75	267	382	578
Scrap	15	76	16	104	70	67
Bars, sheets, pipes, etc.	135	23	12	6	4	8
Malaya (a)—						
Pig-lead	761	697	464	686	884	537
Bars, sheets, pipes, etc.	15	18	13	20	19	24
Australia (c)—						
Ores and concentrates (Pb content)	46,114	46,401	60,431	72,515	69,574	60,054
Pig-lead	140,256	145,987	167,380	164,060	143,828	121,420
Base bullion (Pb content)	40,533	29,603	53,156	48,166	59,273	48,920
Scrap	13,277	10,011	9,230	6,573	2,970	1,241
Sheets and pipes, etc.	2,802	65	206	99	93	97
Red and white lead, etc.	1,729	1,644	1,455	1,477	1,489	1,798
Irish Republic—						
Ore	2,881	4,022	3,162	882	2,121	2,245
Scrap	2,495	1,004	441	416	356	285

(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	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
Austria—						
Pig-lead (a)	3,317	3,655	3,484	3,205	3,336	3,134
Scrap	206	—	64	15	—	—
Red and white lead, etc.	439	335	466	461	678	1,199
Belgium-Luxemburg						
E.U.—						
Pig-lead	53,691	72,058	59,743	64,280	53,587	50,412
Antimonial lead	1,007	330	812	1,093	1,596	<i>n.a.</i>
Scrap	660	458	140	2,641	555	1,668
Sheets, bars, pipes and wire	3,208	4,359	4,393	3,807	5,016	4,036
Red and white lead, etc.	3,627	3,163	3,852	3,268	3,163	3,970
Denmark—						
Pig-lead	4,850	2,699	6,413	9,869	7,967	4,056
Pig-lead, alloyed	3,434	4,713	3,399	3,731	3,773	4,398
Scrap	198	507	738	180	24	103
Sheets, pipes and wire (a)	1	1	2	1	49	74
Finland—						
Pig-lead, scrap, bars, sheets, etc. (a)	78	1,075	—	1,222	400	389
France—						
Ore	1,127	274	1,901	1,983	4,536	19,170
Pig-lead including argentiferous	13,597	6,740	10,851	15,171	11,478	6,243
Pig-lead, alloyed	552	547	367	1,407	1,462	942
Scrap	74	62	23	3	56	563
Bars, sheets and wire	824	513	478	516	741	486
Red and white lead, etc.	3,901	4,494	4,595	4,692	6,430	7,286
Germany (Federal)—						
Ore	223	—	6,709	176	26	—
Pig-lead and scrap (a)	31,441	37,059	37,633	27,359	27,299	25,231
Bars, sheets, wire, etc.	1,891	1,307	1,855	2,373	3,039	2,450
Red and white lead	9,978	9,920	9,251	7,861	10,975	9,722
Greece—						
Ore	4,296	6,772	10,487	16,952	14,299	16,159
Pig-lead, etc.	248	602	—	330	—	<i>n.a.</i>
Italy—						
Ore	10,254	8,651	7,959	13,611	10,437	7,240
Pig-lead and scrap (a)	15	5	280	1,069	286	18
Bars, sheets and wire (a)	—	4	4	10	9	401
Red and white lead	146	77	52	24	178	55
Netherlands—						
Pig-lead	4,089	6,265	7,117	3,769	5,417	6,332
Antimonial lead	727	1,463	1,427	868	606	1,081
Scrap	722	383	779	772	1,013	1,655
Bars, sheets and wire	1,265	1,368	1,287	1,657	3,017	2,558
Red and white lead	1,147	1,747	2,161	1,920	1,811	1,416
Norway—						
Ore	933	1,317	1,472	3,478	3,400	4,364
Pig-lead	(a) 247	(a) 114	(a) 47	(a) 184	10	84
Scrap	1,449	1,964	1,866	1,672	1,677	2,050
Portugal—						
Pig-lead, etc.	12	20	18	14	9	13
Red and white lead	7	5	9	6	9	53
Spain—						
Pig-lead and scrap	28,249	16,344	11,541	23,093	29,387	17,450
Sheets, wire, etc.	66	1,145	347	50	1,036	<i>n.a.</i>

(a) Including alloys.

EXPORTS OF LEAD, ETC. (cont.)

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Sweden—						
Ore	12,777	15,090	17,722	12,425	12,296	9,028
Pig-lead	4,710	5,093	9,967	16,693	18,770	17,352
Scrap	385	486	232	52	157	231
Sheets and pipes	—	3	41	11	1	14
Red and white lead, etc.	735	681	847	1,267	1,462	1,658
Switzerland—						
Pig lead	84	173	27	61	83	—
Scrap	2,232	2,296	2,181	1,956	2,445	2,032
Bars, sheets, pipes, etc.	5	—	1	25	1	38
U.S.S.R.—						
Pig-lead	25,800	39,900	54,000	61,200	56,300	68,700
Yugoslavia—						
Pig-lead	61,657	57,662	62,986	61,438	60,519	63,354
Antimonial lead	263	595	738	344	2,072	1,670
Plates and sheets	105	529	120	7	276	1,511
Red lead	350	570	151	187	154	307
Algeria—						
Ore	12,292	9,345	8,514	11,290	8,566	5,729
Pig-lead	38	24	12	40	27	51
Scrap	2,415	2,085	1,510	2,286	2,485	3,692
Red and white lead	—	—	7	2	5	14
Angola—						
Ore	—	58	15	9	—	—
Congo Republic—						
Ore	<i>n.a.</i>	381	1,225	—	—	—
Congo (Republic of)—						
Ore	5,905	5,905	3,937	5,643	8,568	7,189
Egypt—						
Ore	970	40	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Morocco—						
Ore	94,413	90,786	98,116	116,787	100,519	144,353
Pig-lead	24,855	26,575	30,436	26,558	29,102	26,368
Scrap	211	452	151	44	—	86
Tunisia—						
Ore	2	937	2	—	—	—
Pig-lead and scrap	24,293	25,623	22,828	23,438	19,746	16,903
Greenland—						
Ore	1	3,605	8,327	9,435	10,654	10,602
Guatemala—						
Ore	6,912	17,293	18,024	14,565	5,722	<i>n.a.</i>
Honduras—						
Ore and concentrates	3,190	4,073	5,680	5,486	7,632	5,407
Mexico—						
Ores and concentrates	4,060	3,764	4,878	2,343	1,654	3,505
Pig-lead, refined	166,411	143,074	153,329	141,170	133,913	129,487
Base bullion	4,053	3,019	942	1,721	1,562	11,806
Pig-lead, antimonial	10,728	7,280	11,827	5,738	12,138	1,440
Sheets, tubes and wire	5,835	13,359	5,969	595	—	—
Red and white lead	1,280	5,956	8,600	8,775	12,168	14,721
United States—						
Ore, mattes and base bullion (<i>Pb content</i>)	1,191	942	809	904	200	1,158
Pig-lead, bars, etc.	360	4,133	3,874	1,213	2,460	1,756
Antimonial lead	362	710	513	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Scrap	2,664	1,907	790	906	1,019	2,302
Sheets and pipes	498	494	1,098	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Red and white lead, etc.	2,447	2,684	3,514	3,076	2,838	1,891
Argentina—						
Ore	—	—	1,411	9	—	—
Pig-lead and bars	—	—	50	—	—	—

EXPORTS OF LEAD, ETC. (cont.)

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Bolivia—						
Ore, etc. (<i>Pb content</i>) ..	16,741	19,641	23,488	21,648	21,429	20,985
Metal	2,080	1,572	2,314	784	223	46
Chile—						
Ore	5,520	3,455	4,607	4,883	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Ore	886	2,339	7	597	952	1,107
Ecuador—						
Concentrates	154	212	186	269	692	979
Peru—						
Ore and concentrates						
(<i>Pb content</i>)	48,120	60,341	55,603	70,574	58,443	57,051
Pig-lead (<i>Pb content</i>)—						
Pure	56,240	58,086	61,678	63,400	54,612	58,789
Impure	831	321	234	213	—	62
Burma—						
Ore	1,822	1,867	2,765	911	900	648
Pig-lead	15,565	14,466	13,433	15,236	20,634	13,646
Iran (<i>a</i>)—						
Ore	<i>n.a.</i>	37,851	26,040	22,182	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Pig-lead	120	107	35	82	53	59
Sheets and plates ..	13	61	21	122	57	16
Tubes	67	36	14	69	58	62
Korea (South)—						
Ore	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	2,401	1,721	1,805
Philippine Republic—						
Ores and concentrates..	292	105	727	772	177	—
Thailand—						
Ore	<i>n.a.</i>	7,858	8,518	3,083	3,248	4,733
Turkey—						
Ore	—	—	—	—	3,199	2,323

(a) Years ended March 20 following that stated.

IMPORTS OF LEAD, ETC.

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Pig-lead	216,179	167,366	157,780	162,419	175,246	210,564
Scrap (a)	7,684	6,413	4,544	1,812	2,098	2,699
Sheets and pipes	10	75	137	248	216	580
Litharge, red lead, etc.	1	11	—	—	—	—
Ghana—						
Bars, sheets, etc. (a)	288	269	270	371	277	236
Kenya—						
Pig lead (a)	91	83	83	90	82	52
Bars, sheets, pipes, etc. (a)	64	41	34	18	12	13
Mauritius—						
Pig-lead, sheets, pipes, etc. (a)	32	16	66	81	44	33
Nigeria—						
Bars and sheets	200	251	292	524	534	595
Rhodesia and Nyasaland—						
Pig-lead, bars, sheets and foil	89	16	236	77	82	129
Red and white lead, etc.	41	46	51	103	164	190
Sierra Leone—						
Bars and sheets	7	16	15	10	13	32
Tanganyika—						
Pig lead (a)	32	36	41	17	7	5
Bars, sheets and pipes, etc. (a)	28	21	12	16	7	8
Uganda—						
Pig lead (a)	19	30	12	19	24	48
Bars, sheets, pipes, etc. (a)	30	16	11	10	2	4
Union of South Africa—						
Pig-lead and bars	10,959	14,529	14,153	15,551	13,026	12,066
Sheets and pipes	170	174	73	133	120	17
Foil	3	3	4	3	7	5
Litharge, red and white lead	95	119	171	240	149	154
British West Indies—						
Barbados—						
Sheets, tubes, wire, (a)	<i>n.a.</i>	<i>n.a.</i>	72	60	<i>n.a.</i>	152
Jamaica—						
Pig-lead, pipes, etc. (a)	173	313	243	250	168	119
Trinidad and Tobago—						
Pig-lead	—	18	4	—	6	13
Red and white lead, etc.	82	98	47	33	31	23
Canada—						
Pig-lead	87	94	1,346	1,489	1,616	553
Scrap	48	54	73	109	221	137
Bars, sheets and pipes	61	68	38	44	117	40
White lead, red lead and litharge	1,129	1,170	1,388	1,524	1,346	1,090
Ceylon—						
Pig-lead, etc. (a)	79	612	135	162	92	62
Sheets, pipes, etc. (a)	22	25	30	12	23	39
Tea-lead (a)	1	8	4	—	—	—
Cyprus—						
Sheets and pipes, etc.	36	44	37	32	41	13
Hong Kong—						
Pig-lead (a)	121	114	93	123	336	228
Scrap	6	18	9	28	38	20
Bars, sheets, pipes, etc.	77	58	91	155	88	92

(a) Including alloys.

IMPORTS OF LEAD, ETC. (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
<i>(cont.)</i>						
India—						
Ore	224	525	102	110	130	(b) 100
Pig-lead, bars, etc. ..	11,803	15,829	13,831	21,105	23,034	(b) 23,721
Sheets, pipes and tubes	191	379	286	16	70	(b) 148
Tea-lead	—	—	8	—	—	(b) —
Litharge, red and white lead, etc.	249	635	13	2	23	(b) 9
Malaya—						
Pig-lead (a)	177	200	254	204	296	454
Bars, sheets, pipes, etc.(a)	190	137	97	117	73	151
Pakistan—						
Ore	(b) 370	270	96	70	98	306
Pig-lead, bars, etc. ..	(b) 53	155	255	247	588	547
Sheets, pipes and tubes	(b) n.a.	57	156	244	35	104
Litharge, red and white lead, etc.	(b) 233	219	256	564	297	431
Australia (c)—						
Red and white lead, etc.	(d) 3	61	41	28	97	86
Fiji—						
Pig-lead, sheets, tubes, etc.	24	46	66	24	10	32
New Zealand—						
Pig-lead, bars, etc. ..	5,049	5,264	3,552	5,012	2,551	4,029
do. antimonial	115	211	1,061	206	796	308
Sheets and pipes	56	(d) 3	4	5	5	6
Litharge, red and white lead, etc.	1,338	1,505	1,475	1,575	1,507	1,415
Irish Republic—						
Pig-lead, etc.	543	236	219	258	419	359
Wrought (a)	301	279	87	230	130	106
OTHER COUNTRIES						
Austria—						
Ore	5,177	4,886	5,000	5,492	5,118	4,921
Pig-lead (a)	5,273	4,974	6,041	8,169	9,367	12,666
Scrap	—	—	15	11	—	261
Belgium-Luxemburg						
E.U.—						
Ore	150,928	168,076	157,901	169,112	151,180	137,252
Pig-lead	18,056	19,729	18,194	15,520	17,469	19,374
Antimonial lead	93	32	150	196	179	448
Scrap	1,000	1,309	1,307	796	1,109	1,185
Sheets, bars, pipes and wire	79	37	31	126	417	575
Red and white lead, etc.	1,500	1,810	1,834	1,305	1,374	1,214
Denmark—						
Pig-lead	12,967	11,012	16,906	22,250	23,052	16,534
do. alloyed	168	794	87	47	949	305
Scrap	5,059	5,256	5,677	3,525	4,813	4,972
Sheets, pipes and wire(a)	12	11	29	27	86	212
Red and white lead ..	738	881	710	741	1,838	1,985

(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 LEAD, ETC. (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Finland—						
Pig-lead	7,590	8,967	15,341	9,691	10,116	14,395
Sheets, pipes, wire, etc.	527	571	541	733	1,009	833
Red and white lead, etc.	1,131	1,026	514	558	582	471
France—						
Ore	107,031	105,277	98,961	105,988	102,495	99,342
Pig-lead, including argentiferous	47,442	55,429	49,171	48,895	44,364	55,713
Pig-lead, alloyed	794	868	1,519	1,442	810	1,220
Scrap	13,150	6,950	3,798	5,562	3,675	4,337
Bars, sheets and wire	7	4	8	1	6	31
Red and white lead, etc.	1,727	938	584	418	1,613	1,978
Germany (Federal)—						
Ore	72,458	83,431	95,918	127,821	140,707	151,751
Pig-lead and scrap (a)	83,182	53,481	44,348	47,567	67,099	87,432
Bars, sheets, wire, etc.	—	—	—	8	31	19
Red and white lead, etc.	702	938	698	1,919	2,865	3,953
Greece—						
Pig lead	3	7	481	721	667	255
Hungary—						
Pig-lead	5,741	7,711	7,298	7,712	8,185	10,540
Iceland—						
Pig-lead	99	94	101	141	165	176
Bars, sheets, wire, etc.	22	24	24	24	29	27
Red and white lead	9	16	13	22	28	24
Italy—						
Ore	7,601	1,762	607	255	77	5,191
Pig-lead and alloys	14,505	11,998	14,709	13,357	16,128	24,512
Scrap	7,608	4,877	3,803	4,216	2,842	7,213
Bars, sheets and wire (a)	235	—	18	22	55	841
Red and white lead	252	122	206	305	373	427
Netherlands—						
Ore	31	12	19	12	4	3
Pig-lead	31,611	40,182	36,716	31,140	35,557	33,291
Antimonial lead	592	776	7,406	1,960	8,659	11,044
Scrap	2,404	4,197	3,952	3,121	2,238	2,795
Bars, sheets and wire	663	1,318	1,222	807	1,616	1,487
Red and white lead	4,773	5,680	5,698	5,309	5,494	6,014
Norway—						
Pig-lead	9,529	7,807	9,596	9,551	8,177	8,607
Bars, sheets, wire, etc.	817	1,168	802	930	821	853
Red and white lead	584	484	508	532	659	718
Portugal—						
Pig-lead, alloys, etc.	3,141	2,903	4,796	6,260	5,560	5,708
Red and white lead, etc.	144	122	152	150	116	166
Spain—						
Pig-lead and scrap	11	6	20	1	31	n.a.
Sweden—						
Pig-lead	14,603	12,891	14,518	11,185	9,384	9,474
Scrap	292	181	1,132	121	142	375
Sheets and pipes	1,267	1,292	1,360	1,426	1,660	1,728
Red and white lead	2,314	1,987	1,506	1,103	1,044	1,249
Switzerland—						
Pig-lead	15,749	14,131	15,604	17,519	16,971	18,673
Bars, sheets, pipes, etc.	624	457	496	534	570	228
Red and white lead	504	604	746	653	604	580
U.S.S.R.—						
Pig-lead	17,300	26,300	27,300	29,700	36,700	39,100

(a) Including alloys.

IMPORTS OF LEAD, ETC. (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Algeria—						
Ore	37	47	38	45	35	54
Pig-lead	3,529	3,353	2,221	2,377	3,862	3,940
Scrap	12	84	—	—	—	20
Bars, sheets and wire ..	192	226	115	159	174	253
Red and white lead, etc.	163	132	128	161	147	197
Angola—						
Bars and sheets	11	14	20	7	13	8
Red and white lead	22	38	54	34	52	53
Congo Republic—						
Pig-lead and scrap	1,615	2,059	78	59	58	<i>n.a.</i>
Red and white lead	273	108	131	102	108	<i>n.a.</i>
Egypt—						
Pig-lead and scrap	105	1,429	167	768	3,026	4,643
Sheets, pipes, wire, etc.	73	106	23	31	3	57
Red and white lead	565	746	355	1,062	822	718
Malagasy Republic—						
Pig lead, bars, sheets (a)	44	75	r 85	82	120	54
Red and white lead	61	38	46	43	16	17
Morocco—						
Pig-lead, bars, sheets, etc.	437	99	99	78	64	15
Red and white lead	162	76	69	100	84	117
Mozambique—						
Bars, sheets and wire	25	23	30	41	41	65
Red and white lead	14	41	15	9	45	25
Tunisia—						
Ore	82	1	1	1	1	3
Red and white lead, etc.	33	20	39	27	85	<i>n.a.</i>
Costa Rica—						
Pig lead	42	58	40	22	68	39
Cuba—						
Pig-lead and bars	157	135	344	241	<i>n.a.</i>	<i>n.a.</i>
Sheets, pipes and wire ..	195	261	193	199	<i>n.a.</i>	<i>n.a.</i>
Mexico—						
Pig-lead	30	14	17	10	12	11
Sheets and pipes	3	61	20	1	2	6
United States—						
Ore, matte and flue dust (Pb content)	139,672	170,805	209,479	212,165	121,898	122,843
Bullion and base bullion (Pb content)	—	28	23	371	31	262
Pig-lead and bars (Pb content)	235,694	234,111	287,239	314,071	234,493	190,310
Scrap (Pb content)	16,914	18,271	6,764	7,696	7,051	4,998
Sheets, pipes, wire, etc.	1,828	6,834	5,283	2,344	3,221	2,549
Red and white lead, etc.	704	4,984	7,591	7,589	11,538	13,755
Brazil—						
Pig-lead	12,810	9,703	19,967	11,653	11,978	8,464
Sheets and pipes	—	—	23	—	—	—
Red and white lead	563	315	405	656	636	612
Chile—						
Pig-lead	2,019	1,027	262	391	1,201	<i>n.a.</i>
Bars and sheets	203	239	258	82	342	<i>n.a.</i>
Red and white lead	80	148	102	141	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Pig-lead (a)	701	1,253	1,109	1,610	1,267	1,441
Sheets, pipes, wire, etc.	117	68	167	59	130	113
Red and white lead	278	369	826	497	356	403
Ecuador—						
Pig-lead	92	139	108	91	139	<i>n.a.</i>
Red and white lead	11	19	210	38	40	<i>n.a.</i>

(a) Including alloys.

IMPORTS OF LEAD, ETC. (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Peru—						
Pig-lead, sheets, etc. ..	83	35	27	12	18	11
Red and white lead ..	169	176	225	122	73	62
Uruguay—						
Pig-lead	<i>n.a.</i>	<i>n.a.</i>	2,085	1,683	2,280	1,866
Red and white lead, etc.	<i>n.a.</i>	<i>n.a.</i>	236	90	277	298
Venezuela—						
Pig-lead	529	573	2,148	1,102	1,515	1,104
Red and white lead ..	380	678	862	912	1,611	1,525
Formosa—						
Pig-lead and bars ..	1,434	1,467	1,057	1,870	1,230	1,423
Pipes, sheets, wire ..	13	41	75	44	25	30
Red and white lead, etc.	178	34	122	136	141	141
Indonesia—						
Pig-lead and scrap ..	1,073	838	490	361	1,527	1,271
Red and white lead ..	536	554	598	402	293	383
Iran (a)—						
Ingots, sheets and wire ..	<i>n.a.</i>	15	2	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Israel—						
Pig-lead	477	334	327	857	883	<i>n.a.</i>
Sheets	58	22	63	53	111	<i>n.a.</i>
Red and white lead ..	378	94	449	635	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Ore	27,180	24,944	46,911	26,694	37,786	41,332
Pig-lead	4,019	17,662	39,547	3,340	2,027	22,224
Scrap	3,668	1,447	1,430	1,546	1,128	1,062
Plates and sheets ..	13	83	153	94	11	—
Red and white lead ..	4	1	2	1	2	1
Lebanon—						
Pig-lead	361	135	258	213	339	236
Sheets, etc.	73	84	146	76	160	142
Red and white lead ..	107	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Philippine Republic—						
Pig-lead, bars and sheets	<i>n.a.</i>	703	839	1,183	1,261	1,227
Red and white lead ..	425	1,021	809	1,038	1,155	414
Syria—						
Pig-lead	194	145	438	297	282	255
Red and white lead ..	54	53	51	58	111	<i>n.a.</i>
Thailand—						
Pig-lead	403	82	395	515	1,026	701
Bars, sheets, wire ..	57	204	180	107	66	53
Turkey—						
Pig-lead	599	1,782	869	330	2,328	1,690
Bars, sheets, wire, etc. .	518	559	342	11	184	227
Red and white lead ..	151	308	220	684	1,054	826

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

LITHIUM MINERALS
PRODUCTION OF LITHIUM MINERALS

Long tons

Producing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Southern Rhodesia—						
Amblygonite	161	577	109	1,638	<i>n.a.</i>	<i>n.a.</i>
Eucryptite	11	—	50	355	<i>n.a.</i>	<i>n.a.</i>
Lepidolite	51,530	75,535	83,522	57,767	<i>n.a.</i>	<i>n.a.</i>
Petalite	21,616	12,075	8,870	11,755	<i>n.a.</i>	<i>n.a.</i>
Spodumene	45	3,969	4,999	4,677	<i>n.a.</i>	<i>n.a.</i>
South West Africa—						
Amblygonite	1,262	742	478	477	216	143
Lepidolite	1,636	1,017	787	931	1,936	868
Petalite	4,712	3,281	4,754	6,612	2,488	3,490
Uganda—						
Amblygonite	—	—	5	—	—	—
Union of South Africa—						
Amblygonite	380	637	27	—	9	154
Canada—						
Lithium minerals (<i>Li₂O content</i>)	51	2,138	2,295	1,720	1,230	92
Australia—						
Petalite	—	—	—	68	—	—
Spodumene	4	—	—	—	—	—
OTHER COUNTRIES						
Portugal—						
Amblygonite	4	—	—	—	—	—
Spain—						
Amblygonite	111	51	6	—	<i>n.a.</i>	25
Congo Republic—						
Amblygonite	1,332	1,782	2,070	10	2,648	<i>n.a.</i>
Spodumene (a)	25	64	1	—	—	—
Mozambique—						
Amblygonite	—	34	—	—	—	—
Lepidolite	—	986	338	86	89	<i>n.a.</i>
Petalite	—	25	—	—	—	—
Argentina—						
Spodumene	37	138	20	166	<i>n.a.</i>	<i>n.a.</i>
Brazil—						
Amblygonite (a)	<i>n.a.</i>	<i>n.a.</i>	493	—	527	49
Spodumene (a)	<i>n.a.</i>	<i>n.a.</i>	—	157	418	—

Lithium minerals are also produced in the United States.

(a) Exports.

EXPORTS OF LITHIUM MINERALS

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Rhodesia and Nyasaland—						
Lithium minerals	25,627	69,814	34,012	149,125	51,697	114,219
Lithium salts	47	42	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
South West Africa—						
Amblygonite	1,310	593	828	627	117	—
Lepidolite	1,330	504	1,341	358	1,609	638
Petalite	1,159	3,216	5,765	4,704	1,261	1,753
Union of South Africa—						
Lithium minerals	479	496	—	—	—	—
OTHER COUNTRIES						
Congo Republic—						
Amblygonite	808	591	1,129	1,632	2,943	1,476
Spodumene	25	64	1	—	—	—
Mozambique—						
Lepidolite	3	—	49	157	—	<i>n.a.</i>
Brazil—						
Amblygonite	<i>n.a.</i>	<i>n.a.</i>	493	—	527	49
Spodumene	<i>n.a.</i>	<i>n.a.</i>	—	157	418	—

IMPORTS OF LITHIUM MINERALS*

Long tons

Importing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom (a) ..	2,000	7,100	4,800	6,000	5,100	10,500
OTHER COUNTRIES						
France	(a) 600	(a) 3,200	(a) 5,400	(a) 500	(a) 400	522
Germany (Federal) ..	5,402	2,223	4,290	4,882	7,730	10,093
Netherlands (a) ..	2,600	1,900	3,200	5,800	6,400	4,200
United States (a) ..	20,900	57,300	26,100	139,700	38,900	92,000

*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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Dolomite, crude (a) ..	2,300,000	2,400,000	2,700,000	r 2,600,000	2,800,000	3,100,000
Kenya—						
Magnesite, crude ..	—	—	105	492	2,808	30
Southern Rhodesia—						
Magnesite, crude ..	10,366	7,688	2,598	—	—	7,171
Dolomite	1,884	6,620	1,225	593	423	205
Tanganyika—						
Magnesite, crude ..	346	298	(c) 254	(c) 301	(c) 105	(c) 112
Union of South Africa—						
Magnesite, crude ..	17,637	29,897	31,620	71,607	52,574	59,637
Canada—						
Magnesitic dolomite (b)	£782,480	£1,012,066	£1,136,678	£926,433	£1,132,435	£1,212,540
India—						
Magnesite, crude ..	57,509	91,711	88,885	102,590	155,472	153,862
Dolomite	90,156	98,857	140,961	174,666	320,113	639,417
Pakistan—						
Magnesite	—	—	21	—	396	663
Australia—						
Magnesite, crude ..	57,674	64,685	83,473	69,391	60,586	60,932
Dolomite	111,417	115,564	192,103	r 138,832	160,084	188,729
New Zealand—						
Magnesite, crude ..	388	730	602	1,200	n.a.	795
Dolomite	1,813	2,023	2,784	3,052	3,165	3,390
OTHER COUNTRIES						
Austria—						
Magnesite—						
Crude	976,048	1,066,520	1,154,078	1,201,906	1,182,239	1,599,735
Caustic (d) ..	91,447	88,359	98,364	98,688	101,668	118,782
do, powder (d) ..	33,494	40,039	38,872	38,132	39,898	46,440
Dead-burned (d) ..	342,414	384,154	418,263	413,803	376,698	491,642
Bricks (d)	181,203	214,607	236,094	227,350	183,237	256,074
Belgium—						
Dolomite—						
Crude	252,177	286,014	319,981	363,397	378,080	443,210
Calcined	244,914	257,693	246,804	241,123	248,430	302,440
Bulgaria—						
Magnesite, crude ..	111,215	138,871	(e) 138,000	r (e) 147,000	(e) 147,000	(e) 147,000
France—						
Dolomite, crude ..	448,742	403,484	530,272	584,492	686,241	650,000
Greece—						
Magnesite—						
Crude	59,803	61,027	46,778	87,270	110,327	(e) 172,000
Caustic (d) ..	31,328	24,079	18,622	n.a.	23,218	n.a.
Dead-burned (d) ..	—	—	—	8,089	21,599	n.a.
Italy—						
Magnesite, crude ..	4,042	4,864	7,600	5,804	6,752	5,879
Dolomite—						
Metallurgical ..	32,788	48,030	44,219	57,289	66,596	n.a.
Refractory, etc. ..	363,363	442,265	405,521	400,635	427,478	n.a.
Luxemburg—						
Dolomite, calcined ..	6,356	8,111	8,299	8,597	10,000	7,393

(a) Estimated.

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

(c) Exports.

(d) Derived from crude shown and not additional.

(e) United States Bureau of Mines' estimate.

PRODUCTION OF MAGNESITE AND DOLOMITE (cont.)

Long tons

Producing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Norway—						
Magnesite—						
Crude	780	(a) 780	—	—	—	—
Dolomite	106,002	114,385	115,640	144,922	154,144	210,000
Poland—						
Magnesite, crude	19,321	16,672	16,830	13,779	(d) 13,000	(d) 12,000
Portugal—						
Dolomite	1,181	2,165	1,673	2,087	2,400	2,600
Spain—						
Magnesite	26,762	24,010	36,120	34,323	39,793	47,535
Sweden—						
Dolomite, crude	141,932	89,132	53,600	43,557	50,400	61,400
Yugoslavia—						
Magnesite, crude	115,280	191,304	208,914	219,672	240,939	247,869
United States—						
Magnesite—						
Crude	434,007	613,008	605,794	440,162	530,631	445,114
Caustic (b) (e)	34,599	31,704	54,299	39,840	48,297	58,978
Dead-burned (b) (e)	373,894	384,481	417,610	370,423	462,447	451,706
Dolomite, crude (c) ..	1,900,800	4,943,000	4,758,000	n.a.	n.a.	n.a.
Argentina—						
Dolomite	25,000	27,000	14,684	n.a.	n.a.	n.a.
Brazil—						
Dolomite	87,026	119,474	120,855	127,382	n.a.	n.a.
Colombia—						
Dolomite	n.a.	n.a.	n.a.	n.a.	n.a.	2,000
Peru—						
Dolomite	n.a.	n.a.	34	747	n.a.	n.a.
Uruguay—						
Dolomitic limestone	11,295	15,372	10,586	671	927	975
Formosa—						
Dolomite	3,171	4,472	6,593	10,747	14,250	14,771
Japan—						
Dolomite	807,198	1,041,210	1,166,470	1,380,859	1,309,430	1,675,402
Philippine Republic—						
Dolomite	—	—	—	—	—	12
Turkey—						
Magnesite	—	837	1,284	640	—	(f) 15

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

(a) Estimated.

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

(c) Including dolomitic lime calculated as raw stone.

(d) United States Bureau of Mines' estimate.

(e) Sold or used by producers.

(f) Exports.

PRODUCTION OF MAGNESIUM

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom (a) ..	5,373	3,627	3,411	2,399	2,033	3,687
Canada (b)	7,000	8,577	7,487	6,068	5,448	6,583
OTHER COUNTRIES						
France	1,491	1,498	1,565	r 1,694	1,730	2,106
Germany (Federal) (a) ..	129	173	232	186	191	245
Italy	2,823	r 3,675	r 3,723	4,113	4,435	5,360
Norway	6,637	7,308	8,486	9,047	9,494	10,154
Poland	92	141	134	(d) 147	(d) 147	n.a.
U.S.S.R. (c)	r 15,000	r 15,900	r 16,800	r 17,300	20,000	25,000
United States	54,585	61,023	72,556	26,871	27,708	35,777
Japan	132	77	421	987	1,539	2,110
WORLD'S TOTAL* ..	r 93,000	r 102,000	r 115,000	r 69,000	73,000	91,000

*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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Magnesium and alloys..	954	1,405	4,284	3,464	2,649	2,116
Magnesium compounds	17,971	13,796	17,603	15,952	36,476	16,894
Rhodesia and Nyasaland—						
Crude and calcined ..	10,454	7,212	2,255	—	—	6,195
Tanganyika—						
Magnesite	285	243	254	301	105	112
Union of South Africa—						
Crude and calcined ..	—	—	55	18	—	75
Canada—						
Magnesium	(£1,777,447)	(£1,874,003)	(£1,692,377)	(£1,052,011)	(£1,442,226)	(£1,118,531)
Basic refractory materials	2,906	13,238	n.a.	n.a.	n.a.	n.a.
India—						
Crude and calcined ..	24,637	34,546	21,443	19,585	27,548	(c) 29,071
Chloride	644	164	16	173	49	(c) 8
Australia (b)—						
Crude and calcined ..	55	110	73	60	32	53
Sulphate	54	7	10	8	7	—
OTHER COUNTRIES						
Austria—						
Crude	596	368	549	569	599	728
Caustic	75,404	79,221	82,196	80,420	87,043	95,230
Dead-burned	149,650	148,471	150,413	130,754	169,487	212,142
Bricks	156,054	179,013	201,299	184,846	94,003	124,899
Dolomite	2,505	24,386	19,252	23,820	5,500	12,969
Belgium-Luxemburg						
E.U.—						
Crude	36	1,079	659	5,188	5,029	394
Calcined	43	5	141	144	86	55
Carbonate	17	2	1	2	12	4
Chloride	12	35	4	16	2	1
Sulphate	574	59	156	14	66	74
Dolomite, crude ..	12,315	15,783	62,493	90,651	164,206	184,212
do. ground	570	1,434	10,126	12,371	30,824	(d)
do. calcined	134,748	152,698	143,990	138,548	132,482	150,174
Czechoslovakia—	n.a.	35,000	75,000	85,000	103,000	n.a.
France—						
Crude and calcined ..	87	109	259	468	84	108
Magnesium metal (a)	117	60	44	61	51	59
Carbonate	536	258	493	401	581	636
Chloride	2,050	1,202	875	1,070	392	1,937
Oxide and hydroxide ..	59	246	240	276	567	819
Sulphate	179	267	308	194	111	74
Dolomite, crude	12,862	19,442	11,697	6,009	8,742	12,326
do. calcined	2,528	3,352	3,606	4,348	3,395	4,387
Germany (Federal)—						
Crude and calcined ..	639	3,426	4,595	2,490	3,685	2,143
Carbonate	693	449	509	411	444	629
Chloride	13,008	15,596	15,255	13,298	15,342	17,838
Oxide and hydroxide ..	340	370	332	457	694	874
Sulphate	35,813	43,884	44,373	44,375	48,461	47,686
Dolomite	87,303	103,640	119,079	118,225	89,385	67,118
Kieserite	51,762	58,788	64,025	63,226	78,396	89,552
Germany (East)—						
Sulphate	19,578	19,275	21,574	19,874	19,408	20,083

* Magnesite unless otherwise stated.

(a) Including alloys and scrap.

(c) Years ended March 31 following that stated.

(b) Years ended June 30 of that stated.

(d) Included with crude and calcined.

EXPORTS OF MAGNESITE, ETC. (cont.)

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES (cont.)						
Greece—						
Crude	10,763	19,880	16,450	22,390	16,044	18,336
Calcined	36,430	36,040	29,810	32,970	51,458	64,275
Italy—						
Crude	50	46	28	9	7	90
Caustic	131	41	13	8	22	137
Magnesium metal including alloyed	2,408	3,033	2,924	3,259	4,379	4,300
Carbonate	123	43	53	68	136	155
Chloride	406	13	58	3	6	22
Oxide	232	210	185	154	161	294
Dolomite, crude	256	249	834	948	2,749	} 7,928
do. calcined	4,743	3,096	3,296	3,998	1,799	
Netherlands—						
Crude	308	291	357	532	369	628
Calcined	16,248	15,263	13,879	11,574	13,710	16,819
Sulphate	951	1,018	978	1,082	964	836
Norway—						
Crude	10	30	—	—	—	—
Bricks	55	24	20	22	10	—
Magnesium metal	n.a.	n.a.	n.a.	n.a.	10,987	12,768
Oxide	n.a.	230	184	79	n.a.	n.a.
Dolomite, crude	n.a.	n.a.	n.a.	n.a.	37,876	43,053
Sweden—						
Crude and calcined	98	148	224	586	—	10
U.S.S.R.—						
Magnesium metal	1,700	2,800	2,400	1,600	1,000	1,300
Yugoslavia—						
Crude	2,175	—	46	—	—	426
Ground and dead-burned	40,066	55,154	57,118	51,213	57,046	62,262
Bricks	344	1,886	4,695	6,409	7,922	10,114
Mexico—						
Crude	—	44	—	—	—	346
United States—						
Dead-burned	8,278	7,735	24,250	47,447	77,008	82,310
Magnesium metal (a)	7,348	3,025	1,088	184	1,429	3,988
Brazil	763	1,949	1,968	1,240	207	645
Peru—						
Sulphate	661	682	300	—	—	—
Japan—						
Dolomite	n.a.	889	1,663	2,301	2,223	1,056
Magnesium metal	—	—	155	767	91	1
Carbonate	334	605	500	621	955	1,288
Chloride and sulphate	2,159	461	3,128	3,046	889	316

(a) Including alloys and scrap.

IMPORTS OF MAGNESITE, ETC.*

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Crude and calcined	44,590	58,041	68,900	29,145	19,128	94,781
Magnesium	6,621	3,167	3,322	2,044	3,491	4,391
Chloride	13,218	11,102	8,847	8,518	6,097	7,695
Union of South Africa—						
Carbonate	9,369	6,939	3,495	166	164	6,949
Chloride	199	104	217	196	241	179
Sulphate	1,473	1,313	1,489	2,057	1,608	1,677
Canada—						
Magnesium alloys	(£67,649)	(£133,395)	(£103,262)	r (£93,688)	(£101,495)	(£123,731)
Calcined and dead-burned	12,444	21,482	10,456	13,703	17,958	24,133
Carbonate and oxide	4,908	5,693	2,190	1,536	2,145	1,223
Sulphate	2,121	2,334	2,284	2,190	2,430	2,173
Bricks	(£201,480)	(£247,401)	(£160,794)	(£120,083)	(£162,590)	(£252,179)
Other salts	4,712	6,478	3,881	4,448	1,996	1,162
Hong Kong—						
Magnesite	—	—	—	—	256	158
India—						
Crude	<i>n.a.</i>	<i>n.a.</i>	1,179	61	120	(c) 4
Calcined	<i>n.a.</i>	<i>n.a.</i>	202	855	—	(c) —
Magnesium metal	<i>n.a.</i>	<i>n.a.</i>	40	79	43	(c) 76
Carbonate	(b)	(b)	1,193	873	1,119	(c) 1,206
Chloride	30	3	1	1	1	(c) 2
Sulphate	—	1	1	—	—	(c) —
Oxides	(b)	(b)	52	33	72	(c) 50
Other salts	863	1,500	320	18	46	(c) 37
Pakistan—						
Chloride	(c) 124	127	74	90	3	47
Sulphate	(c) 131	1,047	234	113	215	428
Other salts	(c) 187	113	291	397	355	179
Australia (a)—						
Crude and calcined	3,075	5,128	2,535	2,576	7,288	8,743
Magnesium metal and powder	53	20	25	92	97	90
Oxide	66	128	116	154	158	304
Carbonate	175	233	138	148	159	143
Chloride	488	515	496	329	332	—
Sulphate	706	735	358	384	202	248
New Zealand—						
Magnesite	74	48	48	51	88	26
Sulphate	680	621	894	823	660	848
Other salts	284	241	270	279	249	309
Irish Republic—						
Magnesium salts	444	401	383	366	449	344
OTHER COUNTRIES						
Austria—						
Crude	767	11,639	5,923	6,061	28	11
Chloride	3,020	2,826	2,830	2,427	2,023	2,052
Dolomite	1,184	1,596	1,776	1,433	2,012	2,250
Kieserite	7,954	7,239	8,691	8,563	<i>n.a.</i>	<i>n.a.</i>

* Magnesite unless otherwise stated.

(a) Years ended June 30 of that stated.

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

(c) Years ended March 31 following that stated.

IMPORTS OF MAGNESITE, ETC. (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Belgium-Luxemburg						
E.U.—						
Crude	647	1,087	981	1,082	2,611	873
Calcined	2,119	2,978	2,297	2,189	4,534	3,057
Bricks	13,625	18,718	14,214	13,848	13,565	17,235
Magnesium metal	263	296	329	510	321	428
Carbonate	454	526	508	276	330	225
Chloride	711	770	917	773	1,389	1,761
Oxide and hydroxide	384	402	331	285	390	519
Sulphate	1,969	2,425	2,434	2,483	2,511	3,640
Dolomite, crude	2,342	8,735	5,274	1,832	1,936	5,524
do. ground	209	54	30	315	143	(b)
do. calcined	4,474	6,146	6,922	5,261	4,437	6,541
Denmark—						
Crude	1,687	1,499	1,569	1,566	2,071	2,513
Chloride	687	647	439	538	567	537
Oxide	95	141	104	120	<i>n.a.</i>	<i>n.a.</i>
Sulphate	794	1,213	1,338	1,520	1,149	1,409
Dolomite	9,447	10,896	11,204	11,935	12,474	12,520
Finland—						
Crude and calcined	1,141	1,243	899	413	753	906
Bricks	2,517	2,291	2,607	2,698	1,999	2,920
Oxide	37	40	20	58	156	<i>n.a.</i>
Carbonate	216	128	105	64	139	87
Chloride	995	721	963	273	370	222
Sulphate	117	110	1,883	109	152	215
France—						
Crude	5,127	3,571	2,918	5,604	3,212	4,553
Calcined	16,252	17,799	17,611	24,279	17,944	20,131
Bricks	46,658	49,177	44,829	47,201	25,953	29,686
Magnesium metal (a)	244	349	1,212	746	134	467
Carbonate	162	171	166	146	230	263
Chloride	374	299	256	174	207	42
Oxide and hydroxide	149	122	113	114	261	374
Sulphate	1,686	1,635	1,586	2,326	2,649	2,371
Dolomite, crude	10,552	15,037	17,423	28,511	16,819	18,157
do. calcined	174,931	182,662	176,013	176,282	139,570	144,775
Germany (Federal)—						
Crude	1,472	1,668	1,283	2,851	1,634	1,812
Caustic	107,160	108,555	97,965	88,156	100,145	108,902
Dead-burned	61,710	61,058	72,593	69,270	55,103	82,277
Magnesium metal (a)	15,742	14,004	11,936	13,744	17,763	26,301
Carbonate	83	171	171	191	295	429
Chloride	15	8	8	4	12	4
Oxide and hydroxide	41	131	195	318	507	1,043
Dolomite	25,363	25,494	23,024	23,607	18,108	23,298
Hungary—						
Dead-burned	38,871	37,462	35,309	45,629	42,907	49,468
Italy—						
Crude	4,115	4,602	4,470	4,275	3,136	8,172
Caustic	10,457	18,504	13,315	13,976	16,219	27,144
Chloride	2,684	3,033	2,704	3,385	3,001	3,522
Oxide	20	22	38	49	154	173
Sulphate	4,273	4,616	4,499	2,514	2,135	1,330
Netherlands—						
Crude	927	1,201	543	1,114	1,144	2,268
Calcined	17,100	18,082	15,525	13,382	15,357	22,629
Bricks	11,007	13,177	14,426	15,804	10,884	12,568
Magnesium metal	128	125	134	176	175	189
Carbonate	269	391	506	474	508	533
Oxide and hydroxide	125	145	92	108	246	287
Sulphate	4,727	4,708	5,173	5,426	5,340	5,365
Chloride	3,476	2,717	2,046	1,785	1,882	2,092

(a) Including alloys and scrap.

(b) Included with crude and calcined.

IMPORTS OF MAGNESITE, ETC. (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Netherlands (<i>cont.</i>)—						
Dolomite, crude ..	4,070	17,830	83,590	107,285	180,379	190,471
do. calcined ..	26,817	31,468	40,440	38,677	42,407	43,099
do. ground ..	3,022	5,024	2,256	1,330	68	(a)
Kieserite ..	10,251	12,082	11,240	14,225	17,654	n.a.
Norway—						
Crude and calcined ..	558	545	367	368	383	2,947
Chloride ..	495	710	349	377	291	305
Sulphate ..	n.a.	n.a.	n.a.	n.a.	773	5,157
Dolomite ..	856	1,192	1,929	826	3,089	3,043
Portugal—						
Crude and calcined ..	257	336	378	613	565	200
Carbonate ..	96	111	96	85	118	105
Chloride ..	81	76	84	148	116	n.a.
Oxide ..	313	8	509	519	512	508
Sulphate ..	855	1,208	1,575	1,149	1,344	1,581
Sweden—						
Crude and calcined ..	1,459	1,650	1,473	1,504	1,385	2,397
Bricks ..	15,031	13,191	13,784	13,590	14,777	21,777
Magnesium metal ..	256	260	283	320	445	404
Carbonate ..	196	140	172	218	244	332
Chloride ..	1,102	1,222	924	1,137	1,647	1,609
Sulphate ..	1,124	1,175	1,284	1,191	1,515	1,924
Dolomite ..	n.a.	n.a.	n.a.	n.a.	9,683	11,600
U.S.S.R.—						
Crude ..	39,500	39,600	29,600	—	—	—
Yugoslavia—						
Bricks ..	1,411	158	65	49	66	134
Magnesium metal ..	89	120	141	231	179	292
Algeria—						
Calcined ..	6	8	—	5	5	8
Dolomite ..	2,113	2,397	2,187	2,468	2,126	2,489
Congo Republic—						
Oxide ..	688	658	615	901	1,037	n.a.
Sulphate ..	578	553	438	530	262	n.a.
Chloride ..	1	3	10	19	30	n.a.
Egypt—						
Magnesite and dolomite	3,676	3,218	4,304	3,587	1,454	6,309
Sulphate ..	682	590	517	727	785	494
Morocco—						
Chloride ..	151	150	202	152	4	46
Sulphate ..	53	26	178	26	35	92
Cuba—						
Oxide ..	129	59	155	25	n.a.	n.a.
Carbonate ..	78	200	35	203	n.a.	n.a.
Sulphate ..	513	592	630	723	n.a.	n.a.
Mexico—						
Crude ..	133	611	381	284	3,548	4,120
Magnesium metal ..	350	354	468	319	346	350
Oxide ..	511	327	678	421	704	605
Sulphate ..	81	64	91	131	197	173
United States—						
Calcined ..	3,169	6,911	5,030	2,139	4,730	3,689
Dead-burned ..	91,689	84,718	66,968	r 70,783	134,199	102,346
Bricks ..	7,555	10,803	9,851	10,185	14,987	13,920
Magnesium metal, etc.	1,646	562	877	480	529	358
Oxide ..	101	176	368	317	244	238
Carbonate, precipitated	252	235	274	291	314	309
Chloride ..	197	312	385	612	848	1,048
Sulphate ..	10,369	9,917	9,437	6,846	11,027	9,037
do. calcined ..	5,064	27,534	29,731	29,728	28,500	24,255
Kieserite ..	22,370	6,097	4,020	5,049	5,917	12,561

(a) Included with crude and calcined.

IMPORTS OF MAGNESITE, ETC. (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Argentina—						
Carbonate	950	341	436	214	852	346
Chloride	177	63	174	—	—	183
Oxide	20	24	3	—	2	12
Brazil—						
Crude	1,273	3	—	38	—	—
Carbonate	114	310	430	194	379	515
Chloride	57	78	56	8	107	43
Oxide	92	68	98	45	69	77
Sulphate	386	845	1,022	327	469	443
Chile—						
Crude	53	29	49	60	<i>n.a.</i>	<i>n.a.</i>
Calcined	1,108	827	2,465	847	1,952	<i>n.a.</i>
Sulphate	573	2,447	121	1	<i>n.a.</i>	<i>n.a.</i>
Dolomite, crude ..	13,478	1,483	18,208	5,634	<i>n.a.</i>	<i>n.a.</i>
do. calcined ..	3,363	—	—	10,476	1,508	<i>n.a.</i>
Colombia—						
Crude and calcined ..	2,566	4,149	2,112	4,241	386	25
Carbonate	7	11	8	246	15	14
Chloride	10	11	23	14	109	13
Oxide	75	85	110	86	44	45
Sulphate	413	452	617	408	446	297
Peru—						
Crude and calcined ..	1,197	26	9	14	1,019	21
Carbonate	7	12	31	28	31	28
Oxide	2	5	3	3	4	4
Hydroxide	42	50	53	55	35	45
Sulphate	44	66	35	35	153	121
Chloride	—	3	3	2	8	4
Venezuela—						
Crude	3	149	776	1,951	159	239
Sulphate	142	103	154	170	263	255
Japan—						
Crude and calcined ..	52,638	94,876	121,766	66,894	112,754	99,297
Magnesium metal ..	1,722	4,526	3,281	16	—	—
Philippine Republic—						
Carbonate	<i>n.a.</i>	39	161	64	255	170
Sulphate	<i>n.a.</i>	210	208	250	239	188
Syria—						
Ground and calcined ..	17	15	16	25	54	<i>n.a.</i>
Sulphate	94	142	42	183	56	<i>n.a.</i>
Thailand—						
Chloride	49	40	66	25	55	54
Sulphate	<i>n.a.</i>	<i>n.a.</i>	337	215	344	95
Turkey—						
Carbonate	9	16	29	24	137	17
Chloride	—	—	4	—	155	56
Oxide	11	4	12	4	41	59
Sulphate	558	187	43	14	215	292

MANGANESE
PRODUCTION OF MANGANESE ORE
(including Ferruginous Manganese Ore)

Long tons

Producing Country	Estimated Manganese Content						1960
	1955	1956	1957	1958	1959	1960	
COMMONWEALTH COUNTRIES							
Bechuanaland ..	—	635,851	r 212	12,690	17,980	22,350	n.a.
Ghana (a) ..	539,580	641,343	641,343	513,099	526,653	546,715	253,000
Northern Rhodesia ..	17,604	36,393	35,449	44,092	51,773	57,409	24,900
Southern Rhodesia ..	1,187	729	1,594	2,243	1,898	1,496	n.a.
South West Africa ..	37,393	51,127	80,054	92,009	44,145	60,214	21,200
Union of South Africa ..	579,888	686,071	703,467	834,021	954,645	1,175,118	344,000
British Guiana ..	—	—	—	—	—	122,727	r 300,000
India ..	1,583,538	1,736,609	r 1,654,187	1,233,499	1,168,000	1,180,000	572,000
Malaya ..	—	—	—	—	—	2,877	604,000
Australia ..	47,356	59,384	77,010	59,683	89,501	58,598	27,400
New Zealand ..	159	156	36	103	101	120	n.a.
Papua ..	20	13	—	—	—	48	n.a.
Fiji ..	17,681	22,381	34,694	18,295	13,005	11,672	6,000
TOTAL ..	2,824,000	3,229,000	3,228,000	2,810,000	2,868,000	3,239,000	578,000
OTHER COUNTRIES							
Austria ..	—	—	200	300	424	—	—
Bulgaria ..	61,612	75,587	80,000	(b) 78,700	(b) 78,700	(b) 78,700	50
Czechoslovakia ..	256,000	198,000	161,000	162,000	154,000	152,000	n.a.
France ..	1,280	1,230	1,862	2,133	1,853	1,068	20,000
Greece ..	24,239	7,763	15,666	20,000	29,527	34,447	407
Hungary ..	93,936	(b) 84,000	(b) 118,000	(b) 118,000	(b) 118,000	(b) 118,000	11,800
Italy ..	55,968	46,158	46,407	43,382	51,357	46,205	n.a.
Portugal ..	3,918	3,132	5,359	4,896	6,878	7,319	r 12,500
Roumania ..	383,763	231,298	261,074	197,102	194,000	172,000	2,300
Spain ..	44,319	32,232	40,734	35,953	40,110	21,952	n.a.
Sweden ..	15,140	28,788	12,960	5,475	10,303	8,600	13,400
U.S.S.R. ..	4,668,000	4,860,000	5,067,000	5,281,000	5,429,000	5,785,000	2,440,000
Yugoslavia ..	10,782	11,390	10,072	9,877	7,956	13,104	1,824
Angola ..	31,119	52,130	49,289	48,088	38,207	26,157	2,600,000
TOTAL ..	6,111,119	6,111,119	6,111,119	6,111,119	6,111,119	6,111,119	6,111,119

(b) United States Bureau of Mines' estimate.

(a) Exports.

PRODUCTION OF MANGANESE ORE (cont.)

Long tons

Producing Country	Estimated Manganese Content						1960	1959	1958	1957	1956	1955	1955	1956	1957	1958	1959	1960	1960
	1955	1956	1957	1958	1959	1960													
OTHER COUNTRIES—(cont.)																			
Congo Republic ..	454,440	324,330	361,225	332,804	380,085	f 383,800	—	—	173,400	155,700	218,100	63,000	59,000	25,000	159,700	182,400	184,000	95,000	184,000
Egypt ..	209,854	197,562	84,171	109,852	125,062	f 233,000	60,600	—	—	—	—	—	—	—	45,000	50,000	50,000	29,000	50,000
Ivory Coast ..	—	—	—	—	—	—	475,454	—	—	—	187,000	—	—	—	—	—	—	—	—
Morocco ..	405,944	421,276	484,379	403,608	463,135	n.a.	n.a.	—	n.a.	194,000	—	—	—	—	n.a.	n.a.	n.a.	n.a.	n.a.
Sudan ..	—	(a) 5,959	6,709	1,174	3,169	n.a.	n.a.	—	n.a.	n.a.	—	—	—	—	n.a.	n.a.	n.a.	n.a.	n.a.
Cuba (b) ..	254,360	251,390	271,000	70,844	15,597	n.a.	n.a.	—	—	n.a.	—	—	—	—	n.a.	n.a.	n.a.	n.a.	n.a.
Mexico ..	86,898	f 153,000	f 200,000	f 167,300	f 162,400	f 153,000	—	—	78,410	60,950	35,241	—	—	—	77,408	75,720	63,832	—	75,720
Panama Republic..	—	—	1,923	4,008	—	—	—	—	n.a.	—	—	—	—	—	n.a.	—	—	—	—
United States (c)	401,382	433,577	550,389	370,589	350,963	152,803	—	—	178,337	162,000	142,500	4,000	3,100	4,000	141,187	107,114	51,991	6,000	107,114
Argentina ..	9,852	7,951	9,959	13,061	15,620	f 14,500	—	—	4,000	3,100	4,000	94,000	138,000	407,000	391,000	429,000	384,000	27,000	429,000
Brazil ..	209,151	305,875	903,518	868,227	953,943	a 852,636	—	—	—	—	19,637	19,637	21,328	24,900	16,493	17,656	21,000	21,000	17,656
Chile ..	42,674	47,250	53,325	37,554	38,164	f 59,000	—	—	—	—	2,145	2,145	2,869	6,216	1,302	530	770	770	530
Peru ..	(d) 5,000	(d) 6,500	15,105	2,895	1,127	—	—	—	—	—	—	—	—	—	n.a.	n.a.	n.a.	—	n.a.
Venezuela ..	—	9,212	29,410	8,071	3,531	—	—	—	—	—	140	—	—	—	n.a.	470	200	100	200
Burma ..	300	1,150	452	1,255	541	289	—	—	—	—	—	—	—	—	n.a.	n.a.	n.a.	—	n.a.
China (f) ..	270,000	520,000	690,000	830,000	980,000	1,230,000	—	—	—	—	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Indonesia ..	38,447	106,123	52,981	43,161	42,118	10,739	—	—	—	—	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Iran (e) ..	9,503	(a) 6,392	(a) 13,417	7,091	n.a.	n.a.	—	—	—	—	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Japan ..	198,527	280,514	284,373	291,312	342,588	318,867	—	—	—	—	74,000	74,000	103,000	105,000	110,000	125,000	122,000	122,000	105,000
Korea (South) ..	3,427	1,927	3,154	—	443	1,361	—	—	—	—	1,400	1,400	800	1,300	—	200	500	500	200
Philippine Republic	11,724	4,344	29,754	21,956	34,254	17,106	—	—	—	—	5,100	5,100	1,900	13,100	9,700	15,100	7,500	7,500	15,100
Portuguese India	133,502	230,273	192,710	101,615	108,072	105,294	—	—	—	—	53,000	53,000	90,000	72,000	38,000	40,000	37,000	37,000	40,000
Thailand ..	—	401	340	984	404	520	—	—	—	—	210	210	210	180	520	210	280	280	210
Turkey ..	49,311	59,792	55,822	22,250	35,126	27,778	—	—	—	—	24,000	24,000	29,000	27,000	11,000	17,000	11,000	11,000	17,000
TOTAL ..	r 8,400,000	r 9,000,000	r 10,200,000	r 9,700,000	10,300,000	10,600,000	—	—	—	—	—	—	—	—	—	—	—	—	—
WORLD'S TOTAL ..	r 11,200,000	r 12,200,000	r 13,400,000	r 12,500,000	13,200,000	13,800,000	—	—	—	—	—	—	—	—	—	—	—	—	—

(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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Metal	814	447	166	83	98	176
Ferro-manganese and spiegeleisen	1,195	966	655	611	596	1,621
Ghana—						
Ore	539,580	635,851	641,343	513,099	526,653	546,715
Rhodesia and Nyasaland—						
Ore	17,360	20,975	28,184	32,349	47,589	40,525
Union of South Africa—						
Ore	420,458	457,916	497,221	442,387	472,987	867,355
Canada—						
Spiegeleisen	—	210	637	—	—	—
Ferro-manganese	26,254	53,076	41,726	201	172	651
Hong Kong—						
Ore	—	—	228	324	483	183
Manganese dioxide	51	217	481	1,652	3,316	135
India—						
Ore	1,232,456	1,456,702	1,633,679	924,497	913,741	(b) 1,025,088
Ferruginous manganese ore	53,096	52,458	81,333	35,690	56,388	(b) 123,449
Ferro-manganese	<i>n.a.</i>	<i>n.a.</i>	3,001	10,553	8,114	(b) 47,073
Australia (a)—						
Ore	—	4	5,620	32,236	17,432	52,598
Fiji—						
Ore	9,258	19,318	27,415	22,498	20,630	1,788
Papua (a)—						
Ore	60	28	18	—	—	—
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Ferro-manganese	7,044	4,477	14,088	13,150	13,698	16,017
Spiegeleisen	4,678	3,769	4,299	3,533	4,231	3,290
France—						
Ore (c)	2,389	2,591	1,420	1,145	899	4,815
Metal	341	143	118	205	42	108
Ferro-manganese	96,742	116,822	122,795	83,036	98,939	132,693
Spiegeleisen	5,500	4,724	425	410	8,041	12,036
Germany (Federal)—						
Ore	6,594	853	2,417	4,499	5,078	5,014
Metal	16	16	36	33	75	495
Greece—						
Ore	19,853	12,667	17,169	22,315	29,302	30,395
Italy—						
Ore (c)	1	1	1	1	28	262
Ferro-manganese	550	736	211	322	4,005	3,222
Netherlands—						
Ore (c)	2,173	1,913	2,872	7,357	8,240	5,190
Norway—						
Ferro-manganese	64,478	74,264	77,719	41,844	61,938	50,497
Ferro-silico-manganese	30,437	45,811	45,126	44,859	67,411	80,466
Portugal—						
Ore	5,767	3,819	4,973	2,184	5,047	4,321
Roumania—						
Ore	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	73,600	76,900	65,500
Sweden—						
Ore	1,614	2,604	518	595	1,086	717
Ferro-manganese	1,059	740	1,229	1,382	2,693	1,650
Ferro-silico-manganese	35	1	—	—	226	25

(a) Years ended June 30 of that stated. (c) Including manganiferous iron ore.

(b) Years ended March 31 following that stated.

EXPORTS OF MANGANESE ORE, ETC. (cont.)

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
U.S.S.R.—						
Ore	838,000	903,000	793,200	819,800	963,500	957,600
do. (dioxide)	14,900	13,800	12,700	7,300	8,500	8,900
Ferro-manganese	25,200	30,900	41,000	45,000	49,700	50,000
Yugoslavia—						
Ferro-manganese	4,019	2,877	3,845	7,842	6,538	10,925
Silico-manganese	797	493	787	197	886	1,162
Angola—						
Ore	40,033	35,270	23,155	8,913	38,752	33,546
Congo Republic—						
Ore	270,112	328,911	324,262	313,711	297,837	(b) 300,000
Egypt—						
Ore	211,278	262,766	20,300	19,689	158,993	205,846
Ivory Coast—						
Ore	—	—	—	—	—	22,365
Morocco—						
Ore	379,860	332,003	426,916	316,215	379,564	381,146
Sudan—						
Ore	—	5,959	6,136	1,273	—	394
Cuba—						
Ore	254,360	240,010	143,721	67,624	<i>n.a.</i>	<i>n.a.</i>
Mexico—						
Ore	70,102	155,044	213,974	225,000	<i>n.a.</i>	<i>n.a.</i>
<i>Mn content</i>	<i>35,241</i>	<i>60,950</i>	<i>78,409</i>	<i>77,120</i>	<i>75,720</i>	<i>70,686</i>
Panama Republic—						
Ore	—	—	1,923	4,008	—	—
United States—						
Ore	5,606	5,476	4,705	4,359	5,091	4,588
Metal	408	644	656	551	1,133	2,182
Ferro-manganese	1,597	2,007	6,603	1,255	845	670
Brazil—						
Ore	173,756	256,233	785,462	653,207	899,776	852,636
Ferro-manganese	—	984	1,673	—	—	—
Chile—						
Ore	8,489	17,037	34,151	19,648	23,858	<i>n.a.</i>
Ferro-manganese	7,903	2,996	5,712	5,822	2,735	<i>n.a.</i>
Silico-manganese	2,843	2,728	1,563	869	3,129	<i>n.a.</i>
Manganese dioxide	398	884	—	—	<i>n.a.</i>	<i>n.a.</i>
Peru—						
Ore	5,759	8,706	9,628	4,448	1,022	—
Venezuela—						
Ore	<i>n.a.</i>	<i>n.a.</i>	22,040	<i>n.a.</i>	<i>n.a.</i>	1
Burma—						
Ore	954	757	343	426	—	—
Indonesia—						
Ore	39,924	81,785	50,419	43,660	31,832	24,400
Iran (a)—						
Ore	<i>n.a.</i>	6,392	13,417	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Ore	317	242	146	—	398	842
Ferro-manganese	41,532	53,131	35,490	47,900	33,269	38,914
Ferro-silico-manganese	<i>n.a.</i>	7,405	9,844	21,611	9,633	2,684
Korea (South)—						
Ore	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	98	709	198
Philippine Republic—						
Ore	13,396	14,451	33,501	30,532	26,042	17,405
Portuguese India—						
Ore	149,172	162,347	188,155	r 124,168	152,270	152,409
Thailand—						
Ore	—	<i>n.a.</i>	399	378	98	58
Turkey—						
Ore	31,269	55,267	24,561	23,922	22,847	28,282
New Caledonia—						
Ore	428	—	810	—	—	—

(a) Years ended March 20 following that stated.

(b) Estimated.

IMPORTS OF MANGANESE ORE, ETC.

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore	404,708	441,804	476,337	347,433	342,839	523,005
Metal	71	249	481	649	1,101	1,493
Ferro-manganese and spiegeleisen	16,550	41,674	83,254	18,087	28,807	35,778
Silico-manganese	10,308	13,977	13,845	16,122	22,685	29,235
Union of South Africa—						
Manganese dioxide	982	1,262	1,455	1,818	1,875	2,323
Canada—						
Ore	156,501	185,694	117,249	37,553	105,763	50,313
Ferro-manganese	3,522	1,956	664	2,217	2,084	13,835
Silico-manganese	243	1,009	2,015	1,950	2,669	2,112
Hong Kong—						
Ore	110	135	249	93	468	53
Manganese dioxide	1,528	1,747	2,111	3,503	5,104	2,235
India—						
Ore	<i>n.a.</i>	<i>n.a.</i>	475	8,771	5,846	(<i>c</i>) 5,442
Ferro-manganese	481	291	275	200	150	(<i>c</i>) 155
Malaya—						
Ore	1,825	1,128	2,731	2,532	2,668	6,634
Australia (<i>b</i>)—						
Ore	2,172	2,060	1,046	3,028	1,189	404
Ferro-manganese	2,206	10,357	2,781	4,908	3,650	18,634
OTHER COUNTRIES						
Austria—						
Ore	33,623	19,609	69,431	4,661	6,115	65,414
Ferro-manganese	5,951	7,219	7,518	8,268	5,818	9,473
Belgium-Luxemburg E.U.—						
Ore (<i>a</i>)	110,260	121,088	134,689	153,364	146,434	219,132
Ferro-manganese	62,357	71,532	80,984	46,626	55,300	58,558
Ferro-silico-manganese	1,640	3,002	2,553	2,317	2,494	3,378
Spiegeleisen	8,994	19,451	16,642	20,666	7,118	7,099
Denmark—						
Ore	3,044	7,796	6,068	4,287	3,032	7,134
Ferro-manganese, etc.	2,716	2,412	2,460	2,219	2,275	2,638
Finland—						
Ferro-manganese and spiegeleisen	1,754	2,556	2,925	1,363	2,176	3,338
France—						
Ore (<i>a</i>)	669,552	646,484	805,409	545,171	596,088	765,232
Ferro-manganese	6,012	887	40	3,405	4,665	6,333
Spiegeleisen	16,589	16,561	26,816	16,552	10,786	7,317
Germany (Federal)—						
Ore	320,375	416,872	486,093	335,690	312,140	350,870
Metal	478	498	505	1,124	1,312	1,892
Germany (East)—						
Ore	226,353	(<i>d</i>) 71,889	(<i>d</i>) 82,652	(<i>d</i>) 74,159	(<i>d</i>) 86,795	(<i>d</i>) 95,677
Hungary—						
Ferro-manganese	4,884	5,186	7,121	5,834	6,672	6,649
Italy—						
Ore (<i>a</i>)	82,271	121,698	132,533	56,735	72,323	136,729
Metal	57	53	55	29	82	158
Spiegeleisen	2,506	2,145	168	4,431	2,265	7,471
Ferro-manganese	3,857	8,211	9,257	18,136	20,182	28,579
Ferro-silico-manganese	538	1,129	2,840	2,001	1,767	1,991
Netherlands—						
Ore (<i>a</i>)	24,789	34,748	37,977	25,722	75,110	47,271
Ferro-manganese	7,376	7,100	10,278	9,102	8,806	12,807
Ferro-silico-manganese	236	513	277	229	372	452
Spiegeleisen	1,064	1,410	1,446	512	1,672	6,199

 (*a*) Including manganiferous iron ore.

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

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

 (*d*) *Mn.* content.

IMPORTS OF MANGANESE ORE, ETC. (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Norway—						
Ore	152,714	214,300	282,338	193,757	214,651	303,505
Poland—						
Ore	330,000	405,000	238,000	243,000	264,000	328,000
Spain—						
Ore	28,810	91	3,036	18,046	50,171	37,497
Ferro-manganese ..	1,729	163	342	120	629	<i>n.a.</i>
Sweden—						
Ore	31,661	38,254	39,392	72,299	79,490	54,006
Ferro-manganese ..	3,032	6,952	7,016	3,176	5,765	6,138
Spiegeleisen	76	221	88	59	98	118
Ferro-silico-manganese	150	227	1,580	308	1,287	2,559
Yugoslavia—						
Ore	8,765	16,645	23,340	24,642	32,143	46,540
Ferro-manganese ..	156	143	245	300	359	575
Algeria—						
Ore	72	20	5	25	31	30
Mexico—						
Ferro-manganese ..	145	159	160	1,192	730	158
United States—						
Ore (over 35% Mn) ..	2,021,292	1,984,339	2,267,119	1,605,913	1,676,843	2,030,872
<i>Mn content</i>	934,957	899,321	1,042,171	747,411	792,572	965,354
Ore (10% to 35% Mn) ..	153,091	142,806	5,236	4,497	7,013	2,400
<i>Mn content</i>	31,519	29,951	1,623	1,406	2,162	817
Ferro-manganese ..	58,144	143,038	301,856	57,082	80,412	107,341
<i>Mn content</i>	46,639	110,672	230,197	44,215	62,707	82,673
Silico-manganese ..						
<i>Mn content</i>	2,634	5,676	4,562	7,954	11,156	8,970
Spiegeleisen	—	209	—	—	—	<i>n.a.</i>
Argentina—						
Ferro-manganese ..	698	1,908	—	—	—	292
Brazil—						
Ferro-manganese ..	49	—	73	63	819	45
Chile—						
Ferro-manganese ..	22	29	—	—	<i>n.a.</i>	<i>n.a.</i>
Silico-manganese ..	5	6	1	5	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Ore	172,854	203,311	223,986	170,245	274,188	238,172

MERCURY
PRODUCTION OF MERCURY

Lb. avdp.

Producing Country	1955	1956	1957	1958	1959	1960
Austria (a)	1,265	441	487	—	—	—
Italy	4,068,000	4,736,000	4,826,000	4,462,000	3,483,000	4,217,000
Roumania	27,470	31,860	29,930	26,830	29,440	31,370
Spain	2,753,733	3,668,107	4,161,075	4,209,056	3,927,689	4,056,099
Yugoslavia	1,109,000	1,005,000	937,000	933,000	1,010,000	1,070,000
Tunisia	12,566	7,716	—	2,976	15,070	12,590
Mexico	2,270,999	1,484,000	1,601,211	1,714,303	1,247,910	1,528,670
United States	1,440,580	1,837,452	2,631,500	2,893,092	2,375,500	2,524,900
Bolivia	—	—	—	(d) 772	(d) 881	(d) —
Chile	40,007	43,735	51,496	254,039	152,500	(c) 150,000
Colombia	2,700	—	7,500	15,000	7,200	11,320
Peru	11,228	25,477	31,248	150,680	192,000	230,600
China (c)	874,000	1,300,000	1,300,000	1,300,000	1,700,000	n.a.
Japan	379,274	633,375	902,299	828,411	1,230,000	2,553,000
Philippine Republic	48,260	229,140	255,588	252,396	269,000	231,100
Turkey	63,900	42,712	54,720	112,936	42,000	102,000
WORLD'S TOTAL (b) ..	14,100,000	16,700,000	18,700,000	19,100,000	17,600,000	20,000,000

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

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

EXPORTS OF MERCURY, ETC.

Lb. avdp.

Exporting Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Mercury	68,138	66,947	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Canada—						
Mercury	3,781	5,953	1,425	2,830	10,458	1,918
Hong Kong—						
Mercury	—	3,573	3,256	380	4,090	2,715
Malaya—						
Mercury	1,996	130	953	383	2,543	3,104
OTHER COUNTRIES						
Belgium-Luxemburg						
E. U.—						
Mercury	4,409	1,543	1,764	15,000	23,100	17,400
Mercury salts	3,307	20,724	16,755	2,200	3,700	—
France—						
Mercury	14,110	3,748	6,173	9,000	10,800	22,300
Mercury salts	22,487	22,083	14,330	13,900	11,200	14,800
Germany (Federal)—						
Mercury	7,937	42,108	40,565	15,000	34,200	996,900
Italy—						
Mercury	2,123,089	5,700,339	2,188,088	873,875	2,670,818	4,019,500
Mercury salts	49,675	24,079	9,442	27,040	2,822	400
Portugal—						
Mercury	148	—	165	—	44	—
Spain—						
Mercury	2,450,667	3,095,909	3,533,824	3,855,541	3,269,470	3,995,000
Mercury salts	11,230	16,592	46,775	64,767	101,329	<i>n.a.</i>
Sweden—						
Mercury	8,818	6,614	2,205	29,000	<i>n.a.</i>	<i>n.a.</i>
Switzerland—						
Mercury	111,918	721	930	1,404	1,025	1,453
U.S.S.R.—						
Mercury	421,000	708,000	642,000	789,000	783,000	1,186,000
Yugoslavia—						
Mercury	1,003,965	653,663	521,078	312,666	380,260	520,899
Mercury salts	55,810	118,005	86,507	137,628	144,334	460,001
Mexico—						
Mercury	1,842,048	1,753,870	1,593,327	1,988,210	1,587,465	1,720,776
United States—						
Mercury	34,301	82,044	145,833	24,298	48,652	27,166
Bolivia—						
Mercury	—	—	—	772	881	—
Chile—						
Mercury	—	27,802	29,701	<i>r</i> 293,202	202,038	<i>n.a.</i>
Peru—						
Mercury	15,267	26,929	30,003	131,146	206,236	183,854
Japan—						
Mercury	2	317	1,210	384	11,460	2,873
Philippine Republic—						
Mercury	—	224,007	224,627	306,760	348,436	235,632
Turkey—						
Mercury	38,407	23,578	61,712	129,960	52,600	137,200

IMPORTS OF MERCURY, ETC.

Lb. avdp.

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Mercury	714,322	1,180,738	216,658	1,071,272	1,578,819	1,592,760
Chloride	13,445	15,960	—	—	—	—
Rhodesia and Nyasaland—						
Mercury	13,493	10,109	11,948	6,591	17,380	10,615
Union of South Africa—						
Mercury	11,171	42,818	49,806	51,963	44,716	122,125
Canada—						
Mercury	522,409	449,702	396,404	193,007	141,100	243,091
Mercury salts	(£4,094)	(£661)	(£9,039)	(£3,999)	(£2,281)	(£2,542)
Hong Kong—						
Mercury	6,370	19,901	28,722	11,163	26,720	32,115
India—						
Mercury	14	173,080	296,727	148,073	134,752	(b) 284,354
Mercury salts	n.a.	n.a.	26,190	19,588	37,334	(b) 31,603
Malaya—						
Mercury	4,386	3,268	1,951	1,874	2,945	2,873
Pakistan—						
Mercury	(b) 112	304	7,110	—	2,499	8,477
Sarawak—						
Mercury	353	44	n.a.	n.a.	n.a.	n.a.
Australia (a)—						
Mercury	70,144	64,096	61,546	59,447	76,106	97,726
Mercury salts	182,079	367,592	250,817	184,087	356,674	707,004
New Zealand—						
Mercury	6,952	6,366	5,384	6,250	19,467	10,545
Mercury salts	6,400	6,400	6,800	3,900	3,800	3,472
OTHER COUNTRIES						
Austria—						
Mercury	49,824	19,842	34,613	28,700	35,100	102,100
Mercury salts	26,896	24,030	16,314	24,000	n.a.	n.a.
Belgium-Luxemburg						
E.U.—						
Mercury	63,272	85,098	99,869	89,900	81,400	73,600
Mercury salts	25,892	11,684	16,535	15,200	15,400	14,100
Denmark—						
Mercury	19,621	93,256	22,046	242,100	655,400	234,000
Finland—						
Mercury and amalgam ..	124,405	65,111	150,018	57,552	150,468	92,594
France—						
Mercury	990,316	862,889	769,193	697,300	673,100	946,900
Mercury salts	220	661	2,205	8,200	13,400	12,600
Germany (Federal)—						
Mercury	1,572,557	1,181,237	1,140,892	1,148,200	1,194,500	2,844,200
Greece—						
Mercury	73	1,980	384	1,323	2,125	n.a.
Italy—						
Mercury	35	351	1,096	705	167,933	16,500
Mercury salts	2,072	30,151	38,140	47,115	46,712	31,700
Netherlands—						
Mercury	99,208	176,370	304,238	106,000	163,000	1,162,000
Mercury salts	48,502	52,911	52,911	84,000	60,000	126,000
Norway—						
Mercury	26,078	14,332	40,016	12,599	20,000	35,000
Portugal—						
Mercury	34,599	7,939	27,950	26,103	12,346	15,000
Mercury salts	4,958	5,426	4,965	2,815	4,409	n.a.

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

IMPORTS OF MERCURY, ETC. (cont.)

Lb. avdp.

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES (cont.)						
Sweden—						
Mercury	213,848	372,581	154,324	154,000	194,000	159,000
Switzerland—						
Mercury	121,501	72,792	53,517	40,827	97,616	132,052
Algeria—						
Mercury	2,646	2,425	1,543	5,100	6,800	9,000
Mercury salts	441	441	441	200	200	200
Angola—						
Mercury	97	187	141	31	172	194
Mercury salts	66	64	68	24	99	42
Congo Republic—						
Mercury	6,713	3,948	4,583	606	3,309	n.a.
Mercury salts	11	893	44	159	152	n.a.
Egypt—						
Mercury	2,668	3,803	4,460	38,801	11,912	9,916
Morocco—						
Mercury	1,323	721	1,045	1,292	697	840
Mozambique—						
Mercury	163	293	179	11	168	88
Sudan—						
Mercury	390	269	384	46	n.a.	n.a.
Tunisia—						
Mercury	568	220	110	220	397	400
Cuba—						
Mercury	54,437	3,602	3,960	3,075	n.a.	n.a.
Guatemala—						
Mercury	236	611	252	430	n.a.	n.a.
United States—						
Mercury	1,546,904	3,596,016	3,192,364	r 2,294,896	2,290,715	1,481,076
Mercury salts	20,298	27,985	18,891	8,685	40,302	114,305
Argentina—						
Mercury	143	71,452	8,918	72,215	127,163	36,654
Mercury salts	2,006	8,386	8,521	2,824	1,625	2,930
Brazil—						
Mercury	193,323	179,099	530,238	106,622	58,180	84,146
Chile—						
Mercury	4,353	820	338	409	n.a.	n.a.
Mercury salts	1,812	1,935	1,832	1,661	n.a.	n.a.
Colombia—						
Mercury	6,632	165,682	3,530	2,712	7,215	4,634
Mercury salts	42,137	19,061	52,649	9,546	15,895	15,053
Peru—						
Mercury	882	1,929	1,327	1,484	915	562
Mercury salts	406	717	1,023	500	659	686
Uruguay—						
Mercury	n.a.	n.a.	1,380	14,072	90	551
Venezuela—						
Mercury	24,174	434,143	46,623	38,590	14,121	14,383
Mercury salts	6,109	4,707	9,720	7,317	18,415	9,815
Formosa—						
Mercury	2,099	16,175	16,211	17,070	15,946	46,116
Indonesia—						
Mercury	97,266	19,019	11,947	5,463	9,129	8,278
Iran (a)—						
Mercury	n.a.	5,459	9	132	n.a.	n.a.
Mercury salts	n.a.	32,781	15,785	n.a.	n.a.	n.a.
Japan—						
Mercury	406,023	1,048,172	1,015,791	22,260	1,032	825
Lebanon—						
Mercury	88	132	315	351	315	n.a.

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

IMPORTS OF MERCURY, ETC. (cont.)

Lb. avdp.

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES (cont.)						
Philippine Republic—						
Mercury	<i>n.a.</i>	320	—	873	295	888
Thailand—						
Mercury	827	<i>n.a.</i>	831	8,375	1,411	4,645
Mercury salts	489	2,447	22,505	791	985	915
Turkey—						
Mercury	46	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Mercury salts	767	1,455	2,932	1,131	3,973	2,866

MICA
PRODUCTION OF MICA

Lb. avdp.

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Kenya—						
Block and sheet	1,622	—	—	16,000	21,908	1,244
Northern Rhodesia—						
Sheet	4,501	5,821	627	1,940	210	530
Southern Rhodesia—						
Crude	—	—	—	—	—	752,000
Block and sheet	142,000	124,000	70,000	106,000	1,220,000	90,000
South West Africa	—	—	—	—	234,000	—
Tanganyika—						
Sheet	150,000	130,000	150,000	110,000	120,000	180,000
Waste	614,000	280,000	—	25,000	190,000	—
Union of South Africa—						
Sheet	11,240	1,092	1,318	1,088	492	1,724
Waste	7,818,000	5,038,000	4,226,000	4,254,000	3,762,000	6,712,000
Canada (c)—						
Rough mine-run or						
rifted	25,275	40,826	2,577	4,608	8,641	118,407
Trimmed	24,317	22,355	40,165	29,834	16,336	28,862
Splittings	—	2,000	16,385	—	—	—
Sold for mechanical						
splitting	8,000	16,000	65,612	54,717	23,250	27,900
Ground	943,158	1,493,410	911,138	1,380,530	591,356	791,994
Scrap	639,958	269,220	243,193	35,244	174,251	696,886
Ungraded	—	—	3,346	—	—	38,556
By varieties—						
Phlogopite and						
biotite	1,136,390	1,663,803	1,265,929	1,061,972	813,509	1,580,605
Muscovite and schist						
.. .. .	504,318	180,008	16,487	442,961	325	122,000
Ceylon	100	—	—	—	—	—
India (a)—						
Block	4,899,000	12,336,000	4,410,500	5,244,500	6,306,400	5,025,082
Splittings	16,728,000	14,663,000	16,644,000	14,273,300	15,998,800	18,043,635
Ground and waste	27,178,000	27,283,000	27,915,300	23,945,500	29,082,000	39,484,982
Australia (b)—						
Block	56,649	28,837	36,713	67,231	204,000	9,500
Scrap	20,160	—	40,600	48,496	18,000	646,912
OTHER COUNTRIES						
Austria	—	—	—	130,000	220,000	317,000
France	306,000	225,000	377,000	459,000	670,000	n.a.
Norway (d)	4,100,000	2,400,000	4,700,000	4,900,000	12,600,000	6,600,000
Spain	19,339	27,487	24,921	20,371	10,200	400
Sweden (c)—						
Ground	368,000	392,000	474,000	421,000	220,000	440,000
Angola—						
Sheet	32,690	53,564	46,734	47,181	20,258	26,863
Waste and splittings	516,000	968,000	844,000	716,943	383,400	720,069
Malagasy Republic—						
Phlogopite (block and						
splittings)	596,000	1,187,000	2,123,000	r 2,390,000	2,193,000	2,227,000
Morocco	154	—	—	—	—	—
Mozambique	28,847	26,817	66,513	4,572	12,165	2,080
Sudan—						
Block	—	—	(a)13,311	{ 225,900	{ 882,000	{ n.a.
Scrap	—	—	—	{ 154,000	—	—

(a) Exports.

(b) The following amounts of damourite were also produced (lb. avdp.): 1955—977,000; 1956—1,057,000; 1957—1,456,000; 1958—1,080,000; 1959—1,100,000; 1960—1,250,000.

(c) Sales.

(d) Including waste.

PRODUCTION OF MICA (cont.)

Lb. avdp.

Producing Country	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
(cont.)						
United States (a)—						
Sheet (uncut)	642,113	887,871	690,052	661,344	706,395	578,985
Scrap (b)	190,864,000	172,618,000	184,876,000	186,694,000	203,082,000	239,858,000
Argentina—						
Sheet	99,000	309,000	212,150	n.a.	} 110,000	110,000
Waste	139,000	110,000	2,000	n.a.		
Brazil	3,051,000	2,926,000	3,265,000	2,829,000	2,553,000	(c)2,645,000
Formosa	—	29,000	11,000	700	45	—
TOTAL*	260,030,000	243,890,000	252,500,000	249,000,000	281,700,000	328,000,000

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

(a) Sold or used by producers.

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

(c) United States Bureau of Mines estimate.

EXPORTS OF MICA

Lb. avdp.

Exporting Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Splittings	—	} 3,839,000	3,382,000	2,948,000	2,964,000	4,435,000
Ground and waste	3,214,000					
Rhodesia and Nyasaland—						
Unmanufactured (a)	145,394	121,421	756,029	1,104,842	986,423	313,417
Tanganyika—						
Unmanufactured (a)	665,600	407,600	149,500	132,400	309,000	180,400
Union of South Africa—						
Waste	7,050,000	3,508,000	3,966,000	2,268,000	2,256,000	3,166,000
Canada—						
Rough	20,000	24,500	87,500	—	107,100	30,200
Trimmed block or sheet	46,900	41,800	66,000	51,900	24,200	67,000
Ground	900	92,000	24,000	78,000	46,000	24,000
Waste	313,000	119,500	184,700	170,200	246,500	367,600
Hong Kong—						
Unmanufactured (a)	27,200	1,900	13,100	79,900	14,700	1,200
India—						
Block	4,899,000	12,336,000	4,410,500	5,244,500	6,306,400	(c) 5,025,082
Splittings	16,728,000	14,663,000	16,644,000	14,273,300	15,998,800	(c) 18,043,635
Ground and waste	27,178,000	27,283,000	27,915,300	23,945,500	29,082,000	(c) 39,484,982
Other unmanufactured	n.a.	n.a.	358,300	48,000	160,900	(c) 39,787
Manufactured	n.a.	n.a.	481,398	402,246	479,054	(c) 377,577
Australia (b)—						
Unmanufactured	25,466	9,570	4,661	29,535	33,818	86,332
Manufactured	(£9,098)	(£7,979)	(£7,698)	(£10,638)	(£13,434)	(£13,738)
OTHER COUNTRIES						
Austria—						
Unmanufactured	344,800	99,000	178,300	111,100	(a) 54,700	(a) 3,300
Manufactured	n.a.	n.a.	n.a.	n.a.	11,700	31,300
Belgium-Luxemburg						
E.U.—						
Unmanufactured (a)	37,900	30,900	36,200	266,300	161,000	49,200
Manufactured	14,600	30,200	59,500	36,400	58,400	114,200
Denmark—						
Ground	59,700	25,600	24,500	31,300	7,500	—
Manufactured	5,700	4,800	15,400	5,300	15,900	2,000
France—						
Unmanufactured (a)	164,200	184,500	231,000	253,500	183,400	312,000
Ground	71,900	125,400	206,800	294,500	298,900	303,100
Manufactured	217,400	224,700	274,500	303,100	316,800	480,800
Germany (Federal)—						
Unmanufactured (a)	345,700	849,700	499,600	465,500	578,700	675,900
Manufactured	195,500	201,100	172,000	160,500	169,500	213,400
Italy—						
Manufactured	20,201	6,907	11,114	17,139	32,439	42,300
Netherlands—						
Unmanufactured	463,000	123,000	161,000	236,000	194,000	229,000
Norway—						
Unmanufactured	1,889,346	2,156,976	1,364,967	4,379,440	5,176,000	5,454,000
Waste	747,096	1,416,285	2,350,522	226,812	—	134,500
Sweden—						
Unmanufactured	26,000	9,000	18,000	22,000	37,000	2,000
U.S.S.R.—						
Unmanufactured	522,000	313,000	306,000	223,000	373,000	22,000
Yugoslavia—						
Waste	33	521,779	95,570	69,710	252,932	35,693
Angola—						
Unmanufactured	38,153	66,000	46,618	36,467	20,020	17,472
Waste	45,781	985,000	1,226,652	789,290	2,486,371	1,316,779

(a) Including waste.

(c) Years ended March 31 following that stated.

(b) Years ended June 30 of that stated.

EXPORTS OF MICA (cont.)

Lb. avdp.

Exporting Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Malagasy Republic—						
Unmanufactured ..	1,436,585	1,414,058	1,793,765	1,850,705	2,006,716	2,192,431
Morocco—						
Unmanufactured ..	8,391	3,042	—	—	—	—
Mozambique—						
Unmanufactured ..	3,818	536	3,772	661	9,623	3,014
Mexico—						
Unmanufactured ..	1,713	59,900	33,540	—	31,667	26,636
Manufactured ..	9,484	9,949	19,581	—	—	—
Waste	177,346	254,788	66,983	44,485	—	—
United States—						
Unmanufactured ..	447,491	546,673	911,006	1,030,540	1,072,894	701,926
Ground	5,808,347	8,901,497	9,256,170	8,198,367	8,915,109	7,077,245
Manufactured ..	372,548	343,159	541,432	254,198	216,040	243,354
Argentina—						
Unmanufactured ..	344,067	586,650	258,382	191,176	404,061	396,722
Brazil—						
Unmanufactured ..	1,869,383	2,163,094	1,815,826	1,783,352	1,742,201	1,595,944
Manufactured ..	461	36,938	27,079	35,025	51,471	59,869
Japan—						
Unmanufactured (a) ..	46,000	40,000	9,000	29,000	13,000	57,000
Manufactured	13,640	21,632	20,394	14,465	37,232	54,132

(a) Including waste.

IMPORTS OF MICA

Lb. advp.

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Block	1,118,000	1,053,000	1,178,000	954,000	1,033,000	862,000
Splittings	2,616,000	1,667,000	1,655,000	2,482,000	1,541,000	2,966,000
Ground and waste	10,765,000	8,048,000	13,704,000	7,150,000	6,933,000	14,529,000
Tanganyika—						
Unmanufactured (a)	13,200	—	8,800	33,600	81,800	75,400
Union of South Africa—						
Mica and micanite sheets	51,203	120,961	48,575	33,500	31,364	46,623
Canada—						
Unmanufactured	198,900	324,900	501,900	1,047,700	1,340,400	1,838,800
Manufactured	(£174,987)	(£193,901)	(£162,307)	(£139,476)	(£156,720)	(£116,582)
Jamaica—						
Unmanufactured	571	545	7,415	40,922	125,579	78,801
Manufactured	104	165	1,567	409	548	192
Trinidad and Tobago—						
Unmanufactured (a)	15,680	11,648	41,700	25,300	55,000	66,000
Manufactured	31	114	4,714	1,102	488	—
Hong Kong—						
Unmanufactured (a)	10,100	300	23,400	51,100	130,400	10,752
India—						
Block	320,000	2,000	5,800	—	—	—
Splittings	60,000	13,000	79,200	—	—	—
Sarawak—						
Unmanufactured (a)	40,000	13,000	22,000	9,000	(c) 2,240	—
Australia (b)—						
Block and sheet	54,400	45,791	25,022	21,653	21,215	26,772
Splittings	168,794	185,807	138,838	222,469	130,356	228,914
Ground	95,195	58,496	103,129	184,091	204,008	335,482
Waste	703,385	473,030	170,240	572,320	543,656	1,818,880
Manufactured	(£26,616)	(£16,315)	(£12,750)	(£11,002)	(£8,471)	(£4,267)
New Zealand—						
Unmanufactured	(£NZ17,273)	(£NZ10,236)	(£NZ10,535)	(£NZ20,283)	(£NZ18,186)	(£NZ26,766)
Waste	(£NZ 743)	(£NZ 930)	(£NZ 1,146)	(£NZ 1,186)	(£NZ2,457)	(£NZ1,077)
OTHER COUNTRIES						
Austria—						
Unmanufactured	552,300	965,800	1,187,000	788,200	(a) 564,600	(a) 424,200
Manufactured	n.a.	n.a.	n.a.	n.a.	43,400	49,600
Belgium-Luxemburg E.U.—						
Unmanufactured (a)	2,367,300	2,776,500	3,293,000	1,682,300	2,231,300	1,694,700
Manufactured	86,000	78,300	60,600	54,900	46,300	83,800
Denmark—						
Unmanufactured	32,000	29,100	78,300	19,000	22,300	} 284,000
Ground	2,784,400	5,020,800	4,001,600	1,480,000	1,509,100	
Manufactured	223,100	180,800	153,400	55,600	92,600	152,000
Finland—						
Manufactured	59,549	30,523	30,541	41,535	41,337	78,600
France—						
Unmanufactured (a)	2,513,900	3,305,700	3,828,300	5,004,100	2,491,200	4,437,900
Ground	1,898,600	2,174,200	2,615,300	2,763,300	1,962,300	2,166,500
Manufactured	141,500	132,500	114,200	65,000	32,800	28,200
Germany (Federal)—						
Unmanufactured (a)	6,470,300	7,173,200	7,974,800	7,684,200	8,921,000	11,559,100
Manufactured	127,600	127,000	146,200	215,800	195,300	286,800
Greece—						
Unmanufactured	6,614	10,121	15,450	19,352	8,459	n.a.

(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	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Italy—						
Unmanufactured ..	186,114	197,274	380,549	1,286,816	1,004,263	3,272,000
Ground	710,071	1,132,001	951,872	887,731	1,225,045	} 7,802,000
Waste	9,201,139	34,815,098	53,352,974	34,270,431	4,068,461	
Manufactured ..	527,314	492,526	416,588	444,860	404,112	682,300
Netherlands—						
Unmanufactured (a) ..	895,000	1,003,000	796,000	1,660,000	1,329,000	1,052,000
Manufactured	152,000	115,000	130,000	104,000	119,000	128,000
Norway—						
Unmanufactured (a) ..	3,745,080	2,562,060	5,508,077	5,294,511	4,870,000	7,654,000
Manufactured	24,663	31,396	35,278	83,394	66,000	64,000
Portugal—						
Unmanufactured ..	75,374	106,128	115,811	175,327	172,448	203,000
Manufactured	9,154	16,327	8,763	9,817	10,615	4,000
Spain	64,002	146,025	146,577	4,500,337	271,052	n.a.
Sweden—						
Unmanufactured ..	2,231,000	1,867,000	2,443,000	2,123,000	1,720,000	2,540,000
Manufactured	60,000	60,000	46,000	53,000	53,000	51,000
U.S.S.R.—						
Unmanufactured ..	n.a.	n.a.	254,000	922,000	2,621,000	2,441,000
Yugoslavia—						
Unmanufactured ..	498	1,235	—	—	11,830	15,677
Manufactured	8,314	22,170	8,080	3,732	3,849	2,423
Algeria—						
Unmanufactured (a) ..	200	55,800	158,300	155,000	70,100	1,100
Ground	27,600	71,600	125,500	257,700	261,000	154,100
Manufactured	4,600	7,700	7,300	4,900	5,700	7,500
Congo Republic—						
Unmanufactured ..	494	2,978	10,055	265	2,154	n.a.
Manufactured	n.a.	4,116	22,663	2,359	2,088	n.a.
Egypt—						
Unmanufactured ..	1,506	476,386	86,972	222,931	371,576	2,204
Manufactured	10,536	7,855	3,349	4,301	5,959	13,946
Malagasy Republic—						
Unmanufactured ..	2,400	200	12,037	6,724	15,276	5,481
Morocco—						
Unmanufactured (a) ..	444,417	1,131	4,608	11,431	2,204	2,205
Ground	2,204	27,558	—	452	—	500
Manufactured	5,814	2,974	8,378	2,315	2,718	2,427
Tunisia—						
Unmanufactured ..	16,800	—	4,000	22,700	} 4	110
Ground	220	6,200	—	9		
Mexico—						
Unmanufactured ..	76,348	{ 158,843	201,053	57,347	98,703	21,231
Waste		{ 7,566	37,942	272,231	484,724	248,318
United States—						
Unmanufactured ..	1,747,106	1,958,907	1,841,840	2,181,056	3,224,698	1,088,021
Ground	—	69,000	46,000	48,238	46,049	46,000
Waste	18,921,690	14,435,938	10,373,171	8,128,613	9,287,998	12,480,715
Films and splittings	12,194,412	10,529,034	11,310,980	9,937,286	9,866,427	8,256,530
Other manufactures	117,517	225,184	173,694	120,728	171,039	231,993
Brazil—						
Unmanufactured ..	7,534	5,033	5,033	5,044	—	119
Manufactured	4,676	1,257	3,902	2,119	8,649	11,711
Chile—						
Unmanufactured ..	136,678	7,882	26,672	9,180	n.a.	n.a.
Manufactured	18,542	28,689	13,233	9,764	n.a.	n.a.
Colombia—						
Unmanufactured ..	13,682	123,862	165,225	27,760	198,696	300,910
Manufactured	6,228	6,277	642	3,338	9,703	14,059

(a) Including waste.

IMPORTS OF MICA (cont.)

Lb. advp.

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Peru—						
Ground and waste ..	33,468	75,288	119,418	127,790	167,296	140,000
Venezuela—						
Unmanufactured ..	1,209,872	2,866,331	3,225,673	2,420,012	855,457	578,879
Formosa—						
Unmanufactured ..	4,643	7,319	2,798	13,673	2,751	<i>n.a.</i>
Indonesia—						
Manufactured	1,074	6,281	34,374	2,866	51,456	8,490
Japan—						
Unmanufactured ..	1,241,000	1,349,000	1,171,000	983,000	1,881,000	1,812,000
Ground	<i>n.a.</i>	716,000	1,543,000	816,000	1,978,000	128,000
Waste	853,000	3,197,000	3,845,000	2,030,000	4,074,000	5,130,000
Manufactured	2,771	626	1,867	183	137	79
Lebanon—						
Unmanufactured ..	183	104	1,122	1,336	10,803	13,228
Philippine Republic—						
Unmanufactured ..	<i>n.a.</i>	152,300	38,874	77,473	81,721	42,099
Thailand—						
Unmanufactured ..	412	9	22	4	7	73
Manufactured	150	937	86,796	847	1,614	2,544
Turkey—						
Unmanufactured ..	2,253	21,001	—	7,707	19,590	75
Manufactured	2,621	2,463	2,116	10,055	6,003	4,343

MOLYBDENUM
PRODUCTION OF MOLYBDENUM ORE
(MoS₂ content or equivalent)

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Union of South Africa ..	—	—	11	7	—	—
Canada (a)	620	627	584	662	701	343
Australia	2	—	2	4	—	—
OTHER COUNTRIES						
Austria (b)	13	—	—	—	—	—
Norway	284	272	295	360	379	403
Portugal	8	8	13	—	—	—
Yugoslavia	<i>n.a.</i>	3	3	3	(c) 3	—
Mexico	41	24	22	42	42	98
United States	46,002	42,787	45,237	30,579	37,941	50,809
Chile	2,088	2,312	2,197	2,109	3,771	<i>n.a.</i>
Peru	—	—	—	2	—	—
Japan	326	392	446	190	627	625
Korea (South)	17	21	23	<i>r</i> 60	36	73
Philippine Republic ..	—	—	—	—	72	47
TOTAL*	<i>r</i> 49,400	<i>r</i> 46,446	<i>r</i> 48,833	<i>r</i> 34,018	47,572	56,000

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

(a) Shipments.

(b) Wulfenite.

(c) United States Bureau of Mines' estimate.

EXPORTS OF MOLYBDENUM ORE, ETC.

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ferro-molybdenum ..	430	439	161	296	333	245
Canada—						
Oxide	660	589	499	763	1,673	343
OTHER COUNTRIES						
France—						
Ferro-molybdenum ..	<i>n.a.</i>	24	89	165	261	555
Oxide and molybdates..	4	2	2	7	4	7
Germany (Federal)—						
Metal	14	58	40	9	35	34
Norway—						
Ore	298	289	288	390	414	441
Sweden—						
Ferro-molybdenum ..	184	302	291	353	266	292
Mexico—						
Ore and concentrates (MoS_2 content) ..	—	8	—	26	44	97
United States—						
Ore and concentrates (MoS_2 content) ..	10,857	13,389	18,962	8,910	14,037	22,520
Metal, alloys and scrap..	10	16	44	6	7	132
Ferro-molybdenum ..	156	422	171	101	111	190
Wire, powder and semi- fabricated	16	16	21	16	10	7
Chile—						
Ore	2,862	2,476	2,806	1,788	3,894	2,585
Peru—						
Ore (MoS_2 content) ..	—	—	—	4	—	—
Japan—						
Ore	<i>n.a.</i>	<i>n.a.</i>	27	339	—	—

IMPORTS OF MOLYBDENUM ORE, ETC.

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore	5,583	5,685	5,565	3,713	4,658	7,783
Metal	7	27	11	10	19	23
Canada—						
Oxide	294	427	213	136	137	293
Australia (a)—						
Oxide	36	28	77	46	3	4
Ferro-molybdenum ..	97	114	158	129	140	106
OTHER COUNTRIES						
Austria—						
Oxide	20	59	72	86	172	184
Ferro-molybdenum ..	19	27	132	65	50	119
Belgium-Luxemburg						
E.U.—						
Oxide	8	13	32	11	46	21
Molybdates	13	25	13	42	17	<i>n.a.</i>
Ferro-molybdenum ..	266	179	243	109	265	482
Finland—						
Ferro-molybdenum ..	39	36	72	40	102	173
France—						
Ore	<i>n.a.</i>	2,772	3,349	3,295	2,984	5,066
Metal and alloys	8	10	9	11	7	24
Oxide and molybdates ..	3	20	8	16	10	15
Germany (Federal)—						
Ore	3,706	4,913	5,057	5,149	6,041	8,626
Metal	28	20	13	25	35	87
Hungary—						
Ferro-molybdenum ..	46	30	39	49	70	45
Italy—						
Ore	429	405	529	444	680	1,479
Metal	4	7	7	6	5	46
Ferro-molybdenum ..	169	276	303	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Netherlands—						
Ferro-molybdenum ..	32	40	35	35	21	46
Sweden—						
Ore	1,586	1,788	2,249	1,444	1,643	2,590
Ferro-molybdenum ..	68	59	76	133	394	967
United States—						
Ore (<i>MoS₂ content</i>) ..	100	—	20	1	—	—
Metal	1	7	7	—	30	69
Semi-fabricated ..	5	16	11	10	20	9
Japan—						
Ore and concentrates ..	244	1,352	3,636	27	1,624	3,824

(a) Years ended June 30 of that stated.

NICKEL
PRODUCTION OF NICKEL ORE
(Metal content)

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Southern Rhodesia ..	<i>n.a.</i>	40	72	3	—	22
Union of South Africa (a)	2,320	3,236	3,152	1,137	<i>n.a.</i>	<i>n.a.</i>
Canada (b)	156,186	159,388	167,820	124,606	166,567	190,751
TOTAL	159,000	162,664	171,044	125,746	(i) 169,000	(i) 194,000
OTHER COUNTRIES						
Finland (c)	118	146	79	112	371	2,313
Greece (i)	—	800	1,100	500	—	—
Poland	869	1,179	1,250	1,329	1,254	(l) 1,200
U.S.S.R. (d)	43,000	46,000	49,000	52,000	52,000	52,000
Morocco (l)	149	127	84	182	237	250
Cuba (e)	(i) 18,500	(i) 19,500	(i) 25,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
United States (f) ..	3,399	6,002	8,991	10,482	10,362	11,187
Bolivia (j)	—	3	2	—	2	—
Brazil	51	60	80	70	75	(l) 140
Venezuela	1	11	31	37	26	(l) 28
Burma (g)	64	59	66	328	136	69
Iran (k)	12	16	15	(l) 15	<i>n.a.</i>	<i>n.a.</i>
Japan	97	45	—	—	—	—
Korea (South)	—	150	66	20	6	—
New Caledonia (h) ..	24,326	29,051	42,600	13,966	32,274	52,000
TOTAL*	91,000	103,000	128,000	100,000	120,000	140,000
WORLD'S TOTAL* ..	250,000	266,000	299,000	230,000	290,000	330,000

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

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

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

(c) Nickel content of nickel sulphate. Figures for 1959 and 1960 also include nickel in concentrates.

(d) Source: Metallgesellschaft.

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

	Long tons				Long tons			
1955	13,516	1958 .. ..	..	..	17,662
1956	14,341	1959 .. ..	..	..	17,552
1957	19,862	1960 .. ..	..	..	11,203

(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			
1955	10,304	1958 .. ..	..	..	6,617
1956	13,268	1959 .. ..	..	..	8,427
1957	10,747	1960 .. ..	..	..	8,421

(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			
1955	9,909	1958 .. ..	..	..	8,685
1956	9,502	1959 .. ..	..	..	11,642
1957	10,153	1960 .. ..	..	..	21,524

(i) Estimated.

(j) Exports.

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

(l) United States Bureau of Mines' estimate.

EXPORTS OF NICKEL

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ingots, cubes, rondels, etc. (a)	12,492	10,703	10,557	12,044	20,215	21,714
Plates, sheets, etc.	176	135	148	162	166	208
Other nickel, worked	1,282	1,206	1,478	1,949	1,481	1,905
Wire (alloyed)	793	800	870	976	698	892
Bars, rods, sheets, etc. (alloyed)	477	468	569	722	648	977
Other alloyed, worked	881	1,052	1,056	810	816	1,049
Scrap and alloyed	1,962	1,247	1,219	1,574	1,415	1,309
Nickel oxide	292	359	398	373	452	595
Rhodesia and Nyasaland—						
Ore	66	96	286	8	32	158
Union of South Africa—						
Matte (Ni content)	1,622	1,846	2,072	1,791	n.a.	n.a.
Canada—						
Matte or speiss (Ni content)	58,888	63,138	65,798	60,410	58,623	65,991
Nickel, fine	95,065	93,175	92,194	76,043	91,171	96,741
Nickel oxide (Ni content)	1,297	1,578	1,524	1,244	3,712	11,837
OTHER COUNTRIES						
Belgium-Luxembourg						
E.U.—						
Ingots, etc.	2	6	1	—	479	545
Scrap	99	107	74	272	276	73
Bars, sheets and wire	2	3	7	2	4	n.a.
Denmark—						
Crude	—	—	1	11	2	2
Scrap (a)	150	210	86	70	47	64
Finland—						
Crude and scrap (a)	59	—	3	1	4	78
France—						
Matte and speiss	—	—	15	—	59	—
Crude and ingots	1,782	1,354	1,324	612	3,548	3,667
do. (alloys)	51	8	1	—	11	15
Scrap (a)	643	311	99	12	406	969
Bars and wire	5	1	1	1	15	75
do. (alloys)	31	15	20	24	31	320
Germany (Federal)—						
Crude and scrap	213	614	1,248	1,372	1,332	1,883
Bars, sheets, wire, etc. (a)	899	1,706	1,210	1,129	1,333	1,787
Italy—						
Ore	12	—	5	—	—	—
Ingots (a)	—	1	—	1	—	—
Bars, sheets and wire	—	1	3	1	7	16
do. alloys	300	262	206	376	297	540
Netherlands—						
Scrap	31	85	117	138	108	101
Norway—						
Ore	—	—	861	—	—	—
Crude	(a) 17,224	(a) 18,279	(a) 19,862	(a) 21,079	25,518	27,759
Sweden—						
Crude	12	47	261	73	2	—

(a) Including alloys.

EXPORTS OF NICKEL (cont.)

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Switzerland—						
Crude and scrap (a) ..	409	468	393	836	466	406
Bars, sheets, etc. (a) ..	517	527	601	641	971	767
Cuba—						
Nickel oxide	15,339	16,251	21,876	22,274	<i>n.a.</i>	<i>n.a.</i>
United States—						
Ingots, bars, rods, etc. and scrap (a) ..	17,247	13,496	10,660	10,676	10,552	48,846
Sheets, plates and strips (a)	578	1,112	729	771		
Bolivia—						
Ore (<i>Ni content</i>) ..	—	3	2	—	2	—
Burma—						
Crude	<i>n.a.</i>	216	288	396	324	253
Japan—						
Ferro-nickel	3,383	5,413	11,135	408	—	1
Ingots, slabs and grains do. (alloys)	1,153	2,557	2,898	272	2	—
Bars, rods, plates and sheets	481	517	181	—	1	—
Bars, rods, plates and sheets	441	215	19	62	3	1
Korea (South)—						
Ore	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	310	—	—
New Caledonia—						
Ore	330,970	761,009	1,079,765	177,122	760,310	941,047
Matte	8,784	6,811	10,138	8,494	7,998	14,298
Ferro-nickel	14,219	12,673	14,093	9,395	17,905	42,960

(a) Including alloys.

IMPORTS OF NICKEL

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore, concentrates and matte	32,989	34,573	35,951	36,748	33,308	55,087
Ingots, cubes, rondels, etc.	8,690	7,989	8,837	10,195	11,644	23,319
Plates, sheets, etc. ..	3	3	9	5	—	—
Ingots, sheets, etc. (alloys)	3,014	2,697	2,657	3,979	2,515	6,214
Scrap and alloyed	2,085	1,390	1,300	1,896	1,219	2,500
Nickel oxide	720	729	1,093	918	552	1,667
Canada—						
Ingots or blocks (a) ..	401	216	288	183	214	17
Bars, rods, sheets, etc.(a)	1,476	2,065	1,580	1,741	1,444	1,556
Hong Kong—						
Sheets, rods, wire, etc.	59	43	98	265	34	26
India—						
Crude	n.a.	n.a.	298	393	695	(c) 1,040
Bars, sheets and tubes..	n.a.	n.a.	46	20	3	(c) 17
Scrap	n.a.	n.a.	334	324	176	(c) 181
Australia (b)—						
Pigs and ingots	510	716	808	772	641	1,212
Bars, sheets, tubes, etc.	15	23	149	21	20	20
Pigs, ingots, bars, sheets, tubes, etc., alloyed ..	228	458	222	230	235	344
New Zealand—						
Ingots, bars, sheets, etc. (a)	12	11	13	37	52	16
Irish Republic—						
Nickel alloys and manufactures	33	48	38	70	83	95
OTHER COUNTRIES						
Austria—						
Crude	1,323	1,973	1,792	1,329	2,572	2,767
Anodes	92	45	44	57	17	79
Bars, sheets and wire ..	13	19	36	15	137	239
do. (alloys)	158	189	119	130		
Scrap	42	37	23	—	—	—
Belgium-Luxemburg						
E.U.—						
Ingots, etc.	465	593	567	714	1,390	1,839
Scrap	158	45	69	146	93	91
Bars, sheets and wire ..	118	107	110	84	76	64
Denmark—						
Crude	103	134	175	130	68	101
Finland—						
Crude and scrap	448	296	312	335	276	468
France—						
Matte and speiss	8,864	7,104	7,762	7,781	7,881	13,312
Ferro-nickel	13,911	13,566	16,492	11,195	10,005	23,248
Crude and ingots	1,551	1,521	2,341	2,821	3,974	5,650
do. (alloys)	463	54	91	27	47	3
Scrap (a)	122	99	485	392	1,284	1,102
Bars and wire	132	77	84	81	93	102
do. (alloys)	345	276	309	360	224	403

(a) Including alloys.

(c) Years ended March 31 following that stated.

(b) Year ended June 30 of that stated.

IMPORTS OF NICKEL (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
(cont.)						
Germany (Federal)—						
Ore	54	20,008	406	—	35	—
Matte and speiss ..	4	3	967	863	349	530
Crude and scrap ..	18,273	17,642	14,871	14,718	20,355	31,580
Bars, sheets, wire, etc. (a)	198	161	198	395	520	697
Italy—						
Matte and speiss ..	—	9	108	815	270	497
Ingots (a)	2,167	2,218	2,497	2,517	2,203	5,290
Scrap	369	481	623	806	473	1,115
Bars, sheets and wire ..	64	44	82	88	55	221
do. alloys	361	411	377	338	259	538
Netherlands—						
Crude and scrap ..	315	340	370	341	358	649
Bars, sheets and wire ..	186	174	124	173	222	214
Norway—						
Ore	—	—	—	—	49	49
Matte (copper-nickel) ..	37,111	43,795	45,823	48,398	54,159	38,469
Crude, bars, rods, etc. . .	5	7	20	22	52	19
Portugal—						
Ingots, bars, sheets, etc.	43	28	58	124	77	31
Spain—						
Crude, ingots, etc. ..	103	132	143	807	602	n.a.
Bars, etc. (a)	163	177	222	688	1,221	n.a.
Sweden—						
Crude	3,908	4,256	5,558	4,858	7,775	10,552
Switzerland—						
Crude and scrap (a) ..	695	759	716	1,085	1,177	1,381
Bars, sheets, etc. (a) ..	576	669	826	907	537	341
Yugoslavia—						
Crude	18	92	21	53	168	300
Algeria—						
Sheets, wire and alloys ..	—	1	1	21	10	8
Egypt—						
Bars, sheets, tubes ..	32	48	65	54	40	225
Cuba—						
Ingots, bars, sheets, etc.	98	152	112	128	n.a.	n.a.
Mexico—						
Ingots	145	100	112	194	93	173
Bars, sheets and wire ..	n.a.	59	94	90	89	120
United States—						
Ore and matte	8,114	11,446	11,765	4,084	3,635	164
Pigs, ingots, scrap, etc. . .	98,096	96,082	89,462	56,307	74,560	71,247
Bars, rods and sheets ..	16	16	25	70	90	103
Nickel oxide	29,372	29,424	33,107	26,449	26,841	21,950
Argentina—						
Ingots and sheets ..	58	110	156	160	18	105
Brazil—						
Ingots, bars, sheets, etc.	206	269	500	382	247	488
Chile—						
Ingots	89	112	39	11	n.a.	n.a.
Colombia—						
Ingots, etc.	17	20	24	36	16	21
Bars, sheets and wire ..	107	66	71	41	50	63
Japan—						
Ore	302,673	654,637	1,025,660	200,316	712,242	930,731
Matte	—	—	109	—	—	253
Ingots, slabs, grains (a)	15	27	265	56	36	176
Bars, rods, sheets (a) ..	25	42	34	44	16	18
Turkey—						
Ingots, bars and sheets ..	—	1	5	4	16	15

(a) Including alloys.

NITROGEN COMPOUNDS
PRODUCTION OF NITROGEN COMPOUNDS*

Long tons

Producing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom (a)—						
Nitrogenous fertilizers expressed as 25% NH ₃	1,435,300	1,554,000	1,641,600	1,632,700	1,779,200	2,067,200
Actual ammonium sulphate	1,010,700	1,061,100	1,109,500	1,098,000	1,015,000	1,086,000
Union of South Africa (b)						
Nitrogen fertilizers (N content)	r 4,547	7,837	13,127	r 15,974	20,692	20,280
Canada—						
Ammonium sulphate	274,837	319,896	279,774	288,686	291,345	268,501
India—						
Ammonium sulphate	393,096	388,992	379,656	384,228	378,504	382,813
Pakistan—						
Ammonium sulphate	—	—	—	19,861	n.a.	n.a.
Australia—						
Ammonium sulphate (b)	77,800	94,100	110,898	118,732	105,380	100,750
OTHER COUNTRIES						
Austria—						
Nitrogen fertilizers	624,881	651,808	773,610	838,402	904,770	922,400
Belgium—						
(N content)—						
Synthetic ammonia, etc.	205,963	231,875	230,056	270,578	298,840	314,280
Ammonium sulphate	15,208	16,298	16,735	17,964	15,970	15,710
Mixed fertilizers	6,838	10,440	11,728	21,259	21,150	26,430
Technical products	9,543	9,767	7,913	6,330	9,610	11,700
Bulgaria—						
Nitrogen fertilizers	n.a.	101,804	120,625	n.a.	n.a.	n.a.
Czechoslovakia—						
Nitrogen fertilizers (N content)	59,448	63,476	73,228	106,370	131,159	137,672
Finland (b)—						
(N content)						
Cyanamide	302	337	437	350	477	657
Ammonium nitrate	12,784	15,211	20,035	21,390	27,402	30,000
Ammonium sulphate	2,331	1,612	150	—	—	—
France (b)—						
(N content)						
Ammonium sulphate	67,200	74,000	73,300	69,400	74,300	71,500
Cyanamide	8,800	6,000	2,400	2,400	1,776	2,331
Nitrate of soda	5,000	3,800	4,200	2,700	1,400	500
Nitrate of lime	36,700	35,700	39,800	38,700	38,800	37,800
Nitrite of ammonia	181,700	207,300	234,800	277,300	292,800	329,200
Ammonium phosphate	1,022	(c)	1,100	2,000	993	1,400
Other nitrogen fertilizers	13,100	10,100	24,900	19,500	17,400	18,100
Mixed fertilizers	52,300	65,300	63,100	90,000	102,600	103,900
Germany (Federal)—						
Chemical nitrogen (N content)—						
Fertilizer	751,013	792,844	958,075	1,060,254	1,001,229	1,108,141
Technical use	162,203	153,243	150,716	159,823	193,228	235,311

*Includes by-product ammonium sulphate which is separately recorded as far as available on pages 82-85.

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

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

(c) Included with mixed fertilizers.

PRODUCTION OF NITROGEN COMPOUNDS (cont.)

Long tons

Producing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (East)—						
<i>N content</i> —						
Ammonium sulphate	163,064	166,453	165,240	1,68249	173,165	175,614
Cyanamide	13,935	13,906	13,811	15,774	17,869	16,196
Lime ammonium nitrate	95,628	98,082	104,120	113,445	116,312	120,081
Potassium ammonium nitrate	11,865	11,874	11,814	12,025	11,910	12,416
Hungary—						
Nitrogen fertilizers ..	59,390	92,910	78,604	<i>n.a.</i>	241,276	274,844
Iceland (<i>a</i>)—						
Ammonium nitrate (<i>N content</i>)	5,800	6,800	6,800	6,400	5,300	6,000
Italy—						
Ammonium sulphate ..	727,142	774,597	763,990	901,636	1,147,817	1,240,055
Cyanamide	226,613	197,988	121,437	185,635	166,570	125,007
Nitrate of soda	6,996	6,099	5,871	6,488	6,551	6,899
Nitrate of potash	—	—	—	—	107	1,993
Nitrate of lime	377,228	301,986	296,481	323,348	287,788	361,441
Nitrate of ammonia	263,697	344,180	371,632	589,313	681,490	799,939
Di-ammonium phosphate	15,705	} 225,025	152,847	163,056	198,398	200,039
Ammonium phosphate	125,392					
Netherlands—						
Nitrogen fertilizers (<i>N content</i>)	287,000	(<i>a</i>) 296,400	(<i>a</i>) 324,300	(<i>a</i>) 374,300	(<i>a</i>) 387,500	(<i>a</i>) 399,700
Norway—						
Cyanamide	2,964	2,465	1,461	13,660	7,665	4,990
Nitrate of ammonia	5,974	5,234	7,530	8,793	11,237	10,784
Nitrate of lime	1,016,873	860,463	1,066,295	1,038,646	1,068,734	1,125,418
Nitrate of soda	2,133	3,082	3,608	820	1,389	1,724
Lime ammonium nitrate	65,706	95,603	59,132	63,555	39,736	46,478
Poland—						
Ammonium sulphate ..	98,800	104,300	107,300	110,600	116,000	127,000
Cyanamide	173,900	140,800	144,000	160,000	170,000	173,000
"Saletrzak"	403,300	501,500	380,000	527,000	401,000	427,000
Portugal—						
Cyanamide	4,107	9,277	5,067	10,778	9,774	7,529
Ammonium sulphate	78,934	103,052	60,460	131,593	186,525	177,557
Roumania—						
Nitrogen fertilizers (<i>N content</i>)	3,329	3,872	6,181	9,447	8,335	18,641
Spain—						
Cyanamide	17,021	21,359	5,537	2,428	1,415	4,615
Ammonium nitrate	68,160	73,731	78,165	45,291	49,216	86,071
Ammonium sulphate	141,811	134,523	143,962	180,933	213,482	324,737
Sweden—						
Compressed ammonia (100%)	12,659	15,704	14,942	13,490	<i>n.a.</i>	<i>n.a.</i>
Ammonia (25%)	4,024	4,087	4,324	4,036	<i>n.a.</i>	<i>n.a.</i>
Synthetic nitrogen fertilizer (<i>N content</i>)	25,023	26,734	32,119	32,145	<i>n.a.</i>	<i>n.a.</i>
Switzerland (<i>a</i>)—						
<i>N content</i> —						
Cyanamide	2,000	1,700	1,500	1,200	1,800	2,000
Ammonium sulphate	1,000	1,000	1,400	2,000	2,500	4,200
Ammonium nitrate	5,000	4,400	4,400	4,900	5,100	5,400
Calcium nitrate	3,000	3,000	2,800	2,600	3,000	3,000
Mixed fertilizers	1,000	1,000	800	800	1,000	1,500

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

PRODUCTION OF NITROGEN COMPOUNDS (cont.)

Long tons

Producing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
U.S.S.R. (a)—						
Nitrogen fertilizers						
(N content)	547,000	616,000	699,000	738,000	n.a.	n.a.
Yugoslavia—						
Ammonium nitrate	16,462	16,521	19,970	22,820	23,620	24,971
Ammonium sulphate	3,458	5,797	7,066	8,654	10,627	12,098
Cyanamide	15,228	15,450	17,442	21,367	12,078	7,266
Egypt—						
(N content)						
Nitrate of lime	29,123	26,239	31,731	33,760	37,476	n.a.
Mexico (a)—						
Nitrogen fertilizers						
(N content)	14,200	12,900	12,900	(b) 13,000	(b) 13,000	n.a.
United States—						
Sulphate equivalent of ammonia produced (coke-ovens)	933,749	870,359	905,112	660,036	639,913	656,644
Actual ammonium sulphate (coke-ovens)	876,184	788,125	811,520	571,802	553,807	564,278
Actual ammonium sulphate (synthetic plants)	1,047,124	978,377	930,798	974,068	981,640	779,000
Anhydrous ammonia (synthetic plants)	2,903,213	3,016,395	3,332,645	3,463,195	4,035,451	4,301,521
Ammonium nitrate, original	1,859,327	1,948,712	2,308,935	3,197,600	2,557,947	2,770,000
Brazil (Volta Redonda)—						
Ammonium sulphate	5,872	6,662	5,731	4,547	4,971	n.a.
Chile—						
Nitrates of soda and potash (natural)	1,515,893	1,140,868	1,288,871	1,259,848	1,243,901	910,032
Peru (a)—						
Nitrogen fertilizers						
(N content)	43,800	41,500	42,900	16,600	36,059	45,100
Formosa—						
Cyanamide	72,841	73,341	73,609	68,843	64,323	61,443
Ammonium sulphate	4,358	6,494	15,117	17,124	21,754	21,086
Nitro-phosphate	—	—	2,789	17,096	19,733	20,688
Nitro-chalk	—	—	1,910	31,979	42,674	42,430
Israel—						
Ammonium sulphate	—	n.a.	(a) 37,786	(a) 58,060	63,690	(a) 67,000
Japan—						
Ammonium sulphate	2,095,319	2,285,920	2,441,686	2,569,074	2,591,993	2,385,070
Cyanamide	502,814	499,902	398,226	436,574	404,524	351,720
Ammonium nitrate	33,695	45,538	46,675	46,273	49,884	51,262
Ammonium chloride	62,843	75,235	135,159	137,840	141,290	237,510
Philippine Republic (a)—						
Ammonium sulphate						
(N content)	6,700	6,500	8,000	8,271	13,803	n.a.
Turkey—						
Ammonium sulphate	4,205	4,086	4,323	4,314	2,948	4,549

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

(a) Years ended June 30 of that stated.

(b) Estimated.

EXPORTS OF NITROGEN COMPOUNDS

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Nitrate of potash ..	1,007	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Nitrate of soda ..	165	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ammonium sulphate ..	203,928	24,651	205,804	304,287	213,968	177,777
Ammonium chloride ..	12,802	11,182	9,864	10,626	11,042	15,310
Ammonium nitrate ..	5,814	3,786	2,148	1,181	1,043	496
Ammonium phosphate ..	118	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Liquid ammonia ..	997	} 4,566	3,939	4,507	4,727	4,533
Anhydrous ammonia ..	4,439					
Other nitrogen fertilizers	4,296	1,436	1,317	2,023	3,174	1,894
Canada—						
Ammonium sulphate ..	(£3,992,173)	(£4,390,147)	(£3,470,267)	(£3,012,328)	(£3,162,368)	(£3,151,628)
Nitrogen fertilizers ..	(£9,219,889)	(£6,133,443)	(£6,759,139)	(£6,266,116)	(£5,375,164)	(£7,035,149)
Hong Kong—						
Nitrate of potash ..	142	213	320	368	356	190
Nitrate of soda ..	1	—	—	—	34	31
Ammonium sulphate ..	142,655	95,820	25,073	62,838	26,421	976
Synthetic nitrate ..	1,168	85	67	55,105	—	—
Ammonium chloride ..	86	118	261	128	47	35
India—						
Nitrate of potash ..	111	148	6	16	44	(b) 39
Nitrate of soda ..	<i>n.a.</i>	<i>n.a.</i>	57	45	11	(b) 40
Malaya—						
Nitrates of potash and soda ..	11	5	4	—	2	2
Other nitrogen fertilizers	1,463	2,667	1,749	823	767	1,200
Anhydrous ammonia ..	8	4	8	4	33	176
OTHER COUNTRIES						
Austria—						
Anhydrous ammonia ..	577	1,250	1,602	561	<i>n.a.</i>	<i>n.a.</i>
Belgium-Luxemburg E.U.—						
Nitrate of potash ..	49	21	33	32	25	36
Nitrate of soda ..	56	—	40	68	—	20
Nitrate of lime ..	11	—	—	—	—	5
Ammonium sulphate ..	480,884	579,869	537,145	650,857	747,867	553,855
Ammonium chloride ..	70	54	39	19	128	159
Ammonium nitrate ..	184,810	109,583	134,042	289,443	164,709	174,220
Ammonium phosphate ..	13,942	18,975	28,130	33,917	53,302	<i>n.a.</i>
Cyanamide ..	7,992	11,719	8,833	3,160	7,844	5,114
Anhydrous ammonia ..	31	64	46	46	4,197	6,389
France—						
Nitrate of potash ..	1,225	3,418	3,072	2,876	2,149	1,653
Nitrate of soda ..	3,881	1,089	2,075	2,022	1,725	7,580
Nitrate of lime ..	5,484	4,413	5,907	12,485	10,598	19,439
Ammonium sulphate ..	(a) 69,556	79,097	118,518	133,514	86,478	100,252
Ammonium chloride ..	1,072	585	466	315	23	44
Ammonium nitrate ..	6,465	21,382	49,702	124,638	76,343	253,731
Cyanamide ..	537	855	226	838	158	188
Anhydrous ammonia ..	383	265	291	264	305	307
Germany (Federal)—						
Nitrate of potash ..	7,090	6,801	8,476	11,790	9,633	13,082
Nitrate of soda ..	4,964	3,588	4,515	19,214	24,745	11,452
Nitrate of lime ..	99,979	100,712	82,642	84,399	173,985	113,140
Ammonium nitrates ..	570,888	503,630	708,198	682,456	892,138	864,779
Ammonium chloride ..	8,758	8,021	8,967	9,719	11,405	10,810
Other nitrogen fertilizers	502,606	584,248	633,863	929,217	862,376	796,054

(a) May include some ammonium nitrate.

(b) Years ended March 31 following that stated.

EXPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (East)—						
Nitrogen fertilizers (a)	81,875	88,206	81,260	94,123	100,657	112,167
Hungary—						
Nitrogen fertilizers ..	17,885	22,228	6,106	50,079	<i>n.a.</i>	<i>n.a.</i>
Italy—						
Nitrate of potash ..	311	111	12	264	235	606
Nitrate of soda ..	3	9	33	—	—	89
Nitrate of lime ..	16,200	609	—	1,163	4,876	15,455
Ammonium nitrate ..	98,058	125,981	164,193	256,261	434,903	385,538
Ammonium sulphate ..	216,721	263,941	236,833	312,959	609,206	570,986
Cyanamide ..	5,341	6,410	703	4	751	15,359
Netherlands—						
Nitrate of potash ..	18	51	31	65	53	68
Nitrate of soda ..	16	7	137	530	776	254
Nitrate of lime ..	33,286	55,339	48,853	54,582	67,268	64,003
Ammonium sulphate ..	317,268	305,019	359,905	317,290	307,377	261,387
Ammonium chloride ..	76	17	56	89	100	220
Ammonium nitrate ..	—	—	1	3	24	—
Lime ammonium nitrate	155,846	202,834	324,250	331,986	413,483	354,375
Anhydrous ammonia ..	1,969	1,654	1,952	1,846	2,023	9,975
Norway—						
Nitrate of soda ..	2,095	5,328	1,300	1,453	1,903	2,120
Nitrate of lime ..	869,105	904,658	988,927	906,955	1,043,797	1,099,000
Ammonium nitrate ..	191	1,091	559	3,197	2,537	2,980
Cyanamide ..	—	2	3,405	8,678	5,391	1,808
Anhydrous ammonia ..	753	665	660	1,255	820	462
Portugal—						
Ammonium sulphate ..	5,597	6,536	8,697	11,305	13,256	19,277
Spain—						
Ammonium sulphate ..	7	10	—	—	—	<i>n.a.</i>
Synthetic nitrates ..	—	133	103	—	—	<i>n.a.</i>
Sweden—						
Ammonium nitrate ..	2,972	20	61	1,650	124	147
Switzerland—						
Nitrate of potash (crude)	5	18	3,946	2,927	15	—
Nitrates of potash and soda (purified) ..	105	97	39	1	2	—
Ammonium sulphate, etc.	579	5,183	2,026	9,058	11,114	10,807
U.S.S.R.—						
Ammonium nitrate ..	57,200	55,800	69,900	87,900	80,000	86,500
Ammonium sulphate ..	57,300	55,300	46,800	66,300	67,900	167,500
United States—						
Nitrate of soda ..	10,379	3,641	3,197	2,827	1,402	928
Ammonium nitrate ..	69,567	118,790	130,929	80,733	79,211	35,170
Ammonium sulphate ..	546,792	681,028	708,020	345,391	356,853	211,883
Other nitrogen fertilizers ..	73,318	75,990	113,111	35,514	35,178	56,445
Nitrogen phosphatic fertilizers ..	75,810	39,346	71,687	44,234	61,671	95,867
Anhydrous ammonia ..	39,334	47,611	60,666	(b) 59,490	(b) 75,015	(b) 97,018
Chile—						
Nitrate of soda ..	1,234,485	1,140,680	1,180,756	1,109,327	1,027,701	686,760
Nitrate of potash ..	66,975	55,305	51,313	54,635	86,018	53,191
Israel—						
Ammonium sulphate ..	—	—	7,234	1,575	—	<i>n.a.</i>
Japan—						
Cyanamide ..	33,010	9,948	115	4,282	45,616	295
Ammonium nitrate ..	2,559	984	4,486	6,172	9,723	1,463
Ammonium chloride ..	11,003	4,549	16,544	24,542	132	2,646
Ammonium sulphate ..	407,114	469,104	705,616	805,481	1,019,287	870,435
Anhydrous ammonia ..	<i>n.a.</i>	311	350	428	318	191

(a) N content.

(b) Ammonia content.

IMPORTS OF NITROGEN COMPOUNDS

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Nitrate of potash ..	1,281	2,354	1,205	2,639	2,740	2,698
Nitrate of soda ..	18,754	17,924	20,401	12,891	9,320	13,069
Cyanamide ..	1,480	509	1,369	1,071	} 309,095	191,632
Ammonium sulphate ..	4	37,474	550	103		
Ammonium phosphate ..	90	609	4,680	8,123			10,834	11,713
Anhydrous ammonia ..	38	21	11	14	<i>n.a.</i>	<i>n.a.</i>
Malta—						
Ammonium sulphate ..	1,309	2,411	1,423	1,734	2,351	2,111
Gambia—						
Ammonium sulphate ..	—	18	2	130	1	1
Ghana—						
Ammonium sulphate ..	571	1,560	208	619	551	271
Kenya—						
Nitrate of soda ..	124	—	45	—	—	1
Other nitrogen fertilizers	8,097	8,321	9,122	5,386	7,979	14,731
Mauritius—						
Nitrogen fertilizers ..	26,909	37,485	29,787	26,487	38,352	37,162
Nigeria—						
Ammonium sulphate ..	4,177	3,717	502	2,145	567	878
Other nitrogen fertilizers	571	223	510	200	33	867
Rhodesia and Nyasaland—						
Nitrates ..	4,515	113	139	189	202	<i>n.a.</i>
Ammonium sulphate ..	36,735	34,281	55,014	27,161	19,270	25,923
Other nitrogen fertilizers	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	24,609	32,671
Tanganyika—						
Nitrogen fertilizers ..	2,228	2,564	3,938	2,301	2,340	3,305
Uganda—						
Nitrogen fertilizers ..	2,247	3,931	2,294	2,803	3,851	4,059
Union of South Africa—						
Nitrate of potash ..	168	182	243	195	199	329
Nitrate of soda ..	1,102	1,260	1,004	803	955	1,010
Ammonium sulphate ..	84,529	40,259	53,328	45,119	42,945	39,161
Ammonium chloride ..	576	760	1,039	2,192	1,380	1,557
Ammonium nitrate ..	9,403	3,449	6,674	11,914	16,020	39,028
British Guiana—						
Ammonium sulphate ..	11,967	17,758	17,648	17,755	18,531	17,927
British Honduras—						
Nitrogen fertilizers ..	268	<i>n.a.</i>	<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	—	<i>r</i> 5	—	<i>n.a.</i>
Nitrogenous fertilizers ..	10,779	11,933	16,721	8,657	10,424	11,516
Jamaica—						
Ammonium sulphate ..	} 18,554	20,480	14,130	16,314	14,566	13,834
Other nitrogen fertilizers ..		1,717	4,304	7,385	2,210	1,391
St. Vincent—						
Ammonium sulphate ..	490	391	793	785	653	<i>n.a.</i>
Trinidad and Tobago—						
Ammonium sulphate ..	13,504	19,270	13,097	13,431	14,043	660
Canada—						
Nitrate of potash ..	554	487	467	607	662	662
Nitrate of soda ..	19,131	24,580	22,855	20,293	19,361	16,324
Ammonium sulphate ..	6,276	2,807	2,936	5,261	5,304	7,755
Ammonium chloride ..	554	618	853	520	541	414
Ammonium nitrate ..	741	620	93	26	23	27
Anhydrous ammonia ..	20,796	15,867	24,165	15,308	4,994	3,035
Other nitrogen fertilizers	334	203	28	36	336	537

IMPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES (cont.)						
Ceylon—						
Ammonium sulphate ..	99,788	97,526	121,398	97,638	142,029	128,863
Cyanamide	251	171	244	58	49	121
Cyprus—						
Ammonium sulphate ..	10,035	13,013	16,049	17,529	13,798	15,586
Ammonium chloride ..	4	4	5	—	—	—
Other nitrogen fertilizers	5,040	6,924	12,391	8,076	14,627	6,217
Hong Kong—						
Nitrate of potash ..	564	664	595	1,079	621	378
Nitrate of soda ..	—	—	—	—	363	401
Ammonium sulphate ..	149,300	95,127	25,663	60,602	27,889	2,179
Synthetic nitrates ..	1,572	754	449	65,281	16	21
Ammonium chloride ..	394	584	892	909	709	763
India—						
Nitrate of soda ..	8,390	663	17,193	7,528	36,876	(a) 13,261
Ammonium sulphate ..	15,597	73,334	84,110	182,535	248,158	(a) 248,589
Ammonium phosphate ..	300	—	10	47	228	(a) 5
Ammonium chloride ..	2,643	1,280	330	257	190	(a) 17
Anhydrous ammonia ..	98	83	n.a.	n.a.	n.a.	n.a.
Other nitrogen fertilizers	2,991	4,013	634	15,301	28,332	(a) 45,462
Malaya—						
Nitrogen fertilizers ..	51,604	55,805	79,306	72,425	91,785	106,863
Anhydrous ammonia ..	3,044	2,186	1,984	1,895	2,956	4,242
North Borneo—						
Ammonium sulphate ..	246	446	366	320	363	531
Other nitrogen fertilizers	30	8	27	1	—	31
Pakistan—						
Nitrate of soda ..	(a) (d) —	5	—	—	—	55,224
Ammonium sulphate ..	(a) (d) 3	300	(b) 145,426	n.a.	—	29,683
Ammonium chloride ..	(a) (d) 25	—	28	8	—	128
Anhydrous ammonia ..	(a) (d) 64	30	96	34	14	100
Sarawak—						
Ammonium sulphate ..	802	1,829	1,735	1,239	1,570	539
Other nitrogen fertilizers	31	106	29	158	63	55
Australia (c)—						
Nitrate of potash ..	297	368	347	470	354	451
Nitrate of soda ..	11,714	14,102	11,219	14,430	7,505	6,837
Ammonium chloride ..	114	3	2	104	150	50
Ammonium sulphate ..	35,056	9,466	28,251	20,945	19,979	11
Ammonium nitrate ..	1,222	2,475	1,566	461	478	162
Other nitrogen fertilizers	260	386	17	2,121	10,885	6,635
New Zealand—						
Nitrate of potash ..	101	85	80	138	144	128
Nitrate of soda ..	5,863	5,113	2,911	2,995	1,829	2,971
Ammonium sulphate ..	5,666	4,491	5,188	5,341	5,822	7,736
Ammonium chloride ..	348	266	297	276	512	407
Ammonium nitrate ..	9,735	7,830	3,856	2,952	3,194	5,696
Anhydrous ammonia ..	51	86	66	54	66	62
Cyanamide	—	1	—	49	—	—
Irish Republic—						
Nitrate of soda ..	4,493	3,439	3,989	4,001	6,150	4,276
Ammonium sulphate ..	59,647	55,840	62,082	70,195	72,414	83,090
Anhydrous ammonia ..	56	63	68	95	100	107
Other nitrogen fertilizers	9,504	11,046	14,909	17,730	20,893	20,903

(a) Years ended March 31 following that stated.

(c) Years ended June 30 of that stated.

(b) Including purchases on Government account.

(d) Excluding F.O.A. supplies.

IMPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
Austria—						
Nitrate of lime ..	1,230	1,040	2,356	1,871	1,050	1,303
Nitrate of potash ..	381	274	252	264	279	367
Cyanamide ..	1,399	1,040	1,618	1,844	1,875	1,640
Ammonium chloride ..	12	20	21	14	<i>n.a.</i>	<i>n.a.</i>
Belgium-Luxemburg						
E.U.—						
Nitrate of potash ..	1,741	1,651	1,731	1,962	2,053	2,007
Nitrate of soda ..	30,166	35,655	43,163	22,808	27,252	21,356
Nitrate of lime ..	820	1,455	1,713	1,309	9,010	15,804
Cyanamide ..	94	207	219	292	359	486
Ammonium sulphate ..	4,883	16,728	6,103	3,938	8,668	9,754
Ammonium chloride ..	2,294	1,797	2,021	1,359	2,213	2,462
Ammonium nitrate ..	1,290	9,515	5,004	15,876	32,216	14,856
Anhydrous ammonia ..	12,638	17,604	666	252	4	57
Czechoslovakia—						
Nitrogen fertilizers (a)	<i>n.a.</i>	31,000	17,000	13,000	16,000	33,630
Denmark—						
Nitrate of potash ..	742	949	913	956	843	1,188
Nitrate of soda ..	18,335	26,179	26,168	8,918	16,379	20,135
Nitrate of lime ..	414,747	539,145	609,616	577,035	582,172	685,177
Ammonium sulphate ..	9,861	15,178	8,453	11,043	13,568	14,300
Ammonium chloride ..	550	914	730	575	864	833
Ammonium nitrate ..	7,648	24,497	10,759	12,326	6,970	16,788
Cyanamide ..	—	30	142	110	221	117
Finland—						
Nitrate of potash ..	132	43	114	115	249	140
Nitrate of soda ..	361	199	80	352	325	307
Nitrate of lime ..	35,874	48,198	19,144	29,393	39,621	95,534
Ammonium nitrate ..	18,331	3,780	3,161	4,534	3,855	4,232
Ammonium sulphate ..	31,710	55,681	56,945	50,254	32,098	42,478
Ammonium chloride ..	273	580	512	300	791	671
France—						
Nitrate of soda ..	102,819	88,644	92,847	99,229	69,216	72,163
Nitrate of lime, etc. ..	9,818	4,905	51	65	20	—
Ammonium sulphate ..	(b) 75,158	1,021	520	1,982	22,045	25,090
Ammonium nitrate ..	2,275	10,679	151	161	43	5
Ammonium chloride ..	1,995	2,552	1,768	2,093	1,859	1,554
Anhydrous ammonia ..	2,138	8,991	4,558	316	1,651	4,809
Cyanamide ..	1,022	16,600	13,881	14,781	7,346	27
Germany (Federal)—						
Nitrate of potash ..	207	304	79	186	331	327
Nitrate of soda ..	28,482	32,833	11,411	20,543	16,661	15,025
Ammonium nitrates ..	—	—	—	20	2,756	10,088
Greece—						
Nitrate of potash ..	188	126	52	132	109	<i>n.a.</i>
Nitrate of soda ..	7,166	2,184	776	17,675	6,593	1,941
Ammonium nitrate ..	20,330	33,591	15,984	86,688	96,387	77,670
Ammonium sulphate ..	75,624	60,103	142,929	202,264	141,028	130,834
Ammonium chloride ..	192	213	218	193	162	<i>n.a.</i>
Lime ammonium nitrate	—	6,530	4,927	11,546	1,847	<i>n.a.</i>
Other nitrogen fertilizers	24,397	38,762	26,553	25,860	35,918	<i>n.a.</i>
Hungary—						
Nitrogen fertilizers ..	27,836	31,932	166,940	163,635	180,798	150,249
Iceland—						
Nitrate of lime ..	20	20	25	44	—	30
Lime ammonium nitrate	—	—	—	—	8,857	1,968
Nitrophoska ..	2,297	492	1,033	1,230	1,526	1,673
Italy—						
Nitrate of potash ..	807	874	886	638	964	1,240
Nitrate of soda ..	44,469	42,276	44,507	45,933	40,428	8,500

(a) N content.

(b) May include some ammonium nitrate.

IMPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Italy (cont.)—						
Nitrate of lime ..	—	—	3,789	6,552	—	—
Ammonium chloride ..	1,022	854	347	766	489	373
Ammonium nitrate ..	2	156	3,437	3,448	3,284	2,341
Ammonium sulphate ..	2	984	615	3,248	1,586	114
Cyanamide ..	—	—	—	15	21	116
Netherlands—						
Nitrate of potash ..	1,718	2,400	1,827	1,470	1,755	1,293
Nitrate of soda ..	28,836	17,240	11,457	36,267	32,768	10,660
Nitrate of lime ..	31	—	—	—	1	3,730
Ammonium sulphate ..	3,169	12,119	265	1,045	83	1,330
Ammonium chloride ..	1,603	1,009	1,077	1,254	1,463	1,787
Ammonium nitrate ..	1	1,674	7,390	9,707	20,212	20,212
Lime ammonium nitrate	33,442	20,310	48,834	6,478	16,619	56,249
Cyanamide ..	2,404	1,169	6,447	3,062	4,404	872
Anhydrous ammonia ..	—	—	7,855	1,139	9,968	1,585
Ammonium phosphates	42	5,886	5,644	10,563	6,515	n.a.
Other nitrogen fertilizers	9,753	8,176	5,279	22,950	17,051	17,330
Norway—						
Nitrate of potash ..	104	194	258	155	146	164
Ammonium sulphate ..	196	—	246	246	319	343
Anhydrous ammonia ..	1	8,798	48,883	19,380	1,481	—
Portugal—						
Nitrate of potash ..	316	391	309	415	377	321
Nitrate of soda ..	23,093	22,169	3,118	17,145	14,529	9,056
Nitrate of lime ..	3,291	1,304	12,018	14,886	11,318	7,984
Ammonium sulphate ..	57,297	44,667	122,420	84,999	39,551	46,828
Ammonium chloride ..	110	105	120	133	101	145
Ammonium nitrate ..	2,458	3,527	3,182	4,003	13,009	11,283
Cyanamide ..	7,297	1,264	1,947	486	974	974
Lime ammonium nitrate	33,076	45,129	49,086	68,794	67,756	n.a.
Nitrophoska ..	3,435	3,881	7,130	6,625	10,443	9,727
Anhydrous ammonia ..	150	124	106	85	84	3
Roumania—						
Nitrogen fertilizers (a)	n.a.	n.a.	n.a.	9,300	7,800	8,500
Spain—						
Nitrate of soda ..	99,041	155,415	103,714	158,308	144,268	72,500
Ammonium sulphate ..	340,346	348,636	347,836	455,143	710,688	300,000
Synthetic nitrates	130,533	149,512	133,050	173,492	266,449	175,000
Sweden—						
Nitrate of potash ..	776	924	839	801	838	976
Nitrate of soda ..	53,653	25,146	42,076	29,050	31,446	31,033
Nitrate of lime ..	264,572	324,503	334,302	309,142	332,304	340,122
Ammonium nitrate ..	175	1,478	571	1,143	168	75
Ammonium sulphate ..	3,967	9,503	11,064	12,213	12,235	21,647
Ammonium chloride ..	965	892	878	1,002	1,093	1,238
Cyanamide ..	—	—	—	5	—	—
Switzerland—						
Nitrates of potash and soda ..	992	827	641	938	2,035	808
Ammonium sulphate, etc. ..	49	35	96	328	452	505
Ammonium chloride ..	814	702	640	630	689	1,197
Yugoslavia—						
Nitrate of potash ..	—	39	—	10	—	—
Nitrate of soda ..	9,693	21,076	—	—	9,842	14,763
Ammonium sulphate ..	—	—	—	34,095	—	13,811
Ammonium nitrate ..	n.a.	n.a.	n.a.	10,067	1,120	—
Lime ammonium nitrate	113,573	159,250	275,121	356,017	348,888	333,011

(a) N content.

IMPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES (cont.)						
Algeria—						
Nitrate of potash ..	11	377	181	241	244	151
Nitrate of soda ..	1,224	842	1,358	1,619	1,307	794
Nitrate of lime ..	4,108	3,035	4,181	5,812	3,410	3,986
Ammonium chloride ..	959	539	438	212	7	18
Ammonium sulphate ..	23,444	12,644	18,635	21,956	21,495	19,264
Ammonium nitrate ..	5,510	11,852	17,142	26,074	24,980	29,362
Cyanamide ..	138	203	39	113	88	129
Angola—						
Ammonium sulphate ..	3,091	2,225	2,953	9,922	4,549	4,097
Cameroun—						
Nitrogen fertilizers ..	1,117	2,358	3,048	4,220	6,678	5,706
Canary Islands—						
Ammonium sulphate ..	50,913	46,229	49,602	58,506	67,356	n.a.
Synthetic nitrates ..	295	1,968	2,463	6,935	11,297	n.a.
Congo Republic—						
Ammonium chloride ..	16	61	72	85	17	n.a.
Nitrogen fertilizers ..	2,716	3,224	4,509	4,186	3,695	n.a.
Egypt—						
Nitrate of soda ..	35,382	89,530	43,354	57,492	49,368	18,715
Nitrate of lime ..	165,481	7,012	11,478	10,051	11,124	18,211
Ammonium sulphate ..	83,421	91,081	151,582	159,867	147,513	94,438
Ammonium chloride ..	539	505	661	1,364	308	179
Ammonium nitrate ..	127,835	182,771	360,833	440,892	127,880	432,692
Ammonium sulpho-nitrate ..	31,494	9,596	40,071	30,514	1,968	20,531
Malagasy Republic—						
Nitrogen fertilizers ..	1,824	2,740	3,151	3,386	1,808	2,476
Morocco—						
Nitrate of potash ..	405	17	9	111	21	26
Nitrate of soda ..	275	245	583	640	483	300
Nitrate of lime ..	1,722	855	1,010	1,154	1,125	725
Ammonium nitrate ..	987	6,328	6,352	12,450	11,579	11,361
Ammonium sulphate ..	19,869	7,883	7,358	12,130	13,725	14,126
Other nitrogen fertilizers	1,922	2,097	2,593	2,716	1,797	2,641
Reunion—						
Ammonium sulphate ..	6,004	8,019	8,261	7,712	5,496	n.a.
Sudan—						
Synthetic nitrate of soda, calcium and ammonia ..	13,180	4,164	8,525	10,226	11,797	15,238
Other nitrogen fertilizers	14,253	18,695	28,559	24,742	21,824	34,162
Tunisia—						
Nitrate of potash ..	148	22	79	98	n.a.	n.a.
Nitrate of soda ..	265	744	541	258	} 10,366	} 11,827
Nitrate of lime, etc. ..	216	—	39	186		
Ammonium nitrate ..	217	1,051	3,876	8,053		
Ammonium sulphate, etc.	2,476	1,109	1,644	2,708		
Costa Rica—						
Nitrogen fertilizers ..	9,093	10,076	12,504	13,634	19,796	14,105
Cuba—						
Nitrate of potash ..	5,357	16,205	10,304	7,972	n.a.	n.a.
Nitrate of soda ..	4,990	5,459	5,862	2,319	n.a.	n.a.
Ammonium nitrate ..	63	164	211	190	n.a.	n.a.
Ammonium sulphate ..	28,712	38,265	57,503	52,349	n.a.	n.a.
Anhydrous ammonia ..	356	3,608	12,127	6,420	n.a.	n.a.
Dominican Republic—						
Ammonium sulphate ..	7,419	7,901	21,385	13,387	38,332	7,506
Honduras—						
Nitrogen fertilizers ..	7,749	15,318	14,055	12,315	14,561	11,849
Mexico—						
Nitrate of soda ..	9,532	10,462	14,433	9,698	15,261	11,276
Ammonium chloride ..	n.a.	795	535	596	515	646

IMPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Mexico (cont.)—						
Ammonium sulphate ..	41,202	34,306	8,094	9,194	24,510	621
Ammonium nitrate ..	24,528	34,120	33,118	41,372	25,932	9,286
Anhydrous ammonia ..	<i>n.a.</i>	15,741	16,028	26,038	39,043	61,452
Nicaragua—						
Nitrate of soda ..	658	144	—	494	397	—
Other nitrogen fertilizers	116	544	781	1,566	1,421	2,466
Panama Republic—						
Nitrogen fertilizers ..	2,586	3,440	<i>n.a.</i>	9,373	9,860	11,172
United States—						
Nitrates of potash and soda, crude ..	17,232	17,367	22,672	20,989	32,534	14,555
Nitrate of potash ..	2,089	2,114	2,011	2,314	2,080	4,820
Nitrate of soda ..	548,380	446,439	522,272	398,304	412,290	317,064
Nitrate of lime ..	50,323	58,296	53,621	78,970	61,472	55,378
Ammonium sulphate ..	154,570	176,473	147,079	166,858	194,172	188,706
Ammonium chloride ..	1,694	2,330	2,234	2,781	4,088	5,789
Ammonium nitrate ..	361,827	390,696	315,004	299,358	304,497	219,276
Ammonium phosphates	209,396	170,155	151,313	141,716	192,596	107,102
Cyanamide ..	72,954	59,987	51,695	51,191	52,143	39,375
Argentina—						
Nitrate of potash ..	826	—	—	—	15	156
Nitrate of soda ..	27,576	20,859	23,765	41,194	30,367	1,493
Ammonium sulphate ..	11,517	13,405	21,807	19,397	18,650	7,820
Brazil—						
Nitrate of potash ..	869	1,345	909	494	602	1,337
Nitrate of soda ..	49,713	41,956	49,746	50,092	48,237	36,151
Nitrate of potash and soda ..	20,761	15,815	11,379	—	7,690	15,841
Ammonium chloride ..	625	691	502	1,088	763	1,292
Ammonium nitrate ..	11,850	8,341	14,499	18,211	13,916	18,179
Ammonium sulphate ..	28,237	47,156	55,153	88,357	84,724	154,889
Cyanamide ..	181	58	139	253	31	323
Other nitrogen fertilizers	2,073	7,082	4,591	14,961	9,462	12,926
Chile—						
Ammonium chloride ..	464	395	315	316	<i>n.a.</i>	<i>n.a.</i>
Ammonium sulphate ..	511	111	115	95	<i>n.a.</i>	<i>n.a.</i>
Ammonium nitrate ..	3,381	4,406	3,342	2,497	7,113	<i>n.a.</i>
Anhydrous ammonia ..	85	36	192	99	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Nitrate of potash ..	326	304	267	283	222	205
Nitrate of soda ..	335	611	394	143	—	79
Ammonium chloride ..	99	218	246	145	354	292
Ammonium sulphate ..	4,791	5,996	2,987	4,871	1,166	7,163
Other nitrogen fertilizers	7,819	12,638	28,410	15,216	10,186	17,145
Anhydrous ammonia ..	135	104	140	133	95	161
Ecuador—						
Nitrogen fertilizers ..	2,222	2,115	5,203	3,343	5,814	<i>n.a.</i>
Peru—						
Nitrate of potash ..	52	58	66	71	78	129
Nitrate of soda ..	16,852	9,382	15,334	14,760	9,507	10,479
Anhydrous ammonia ..	173	167	194	181	195	68
Other nitrogen fertilizers	20,642	18,462	43,766	65,706	84,738	114,414
Uruguay—						
Nitrate of potash ..	<i>n.a.</i>	<i>n.a.</i>	595	914	2	111
Nitrate of soda ..	<i>n.a.</i>	<i>n.a.</i>	907	2,084	504	619
Ammonium sulphate ..	<i>n.a.</i>	<i>n.a.</i>	10,133	8,974	4,194	4,921
Venezuela—						
Nitrate of potash ..	424	330	126	51	158	137
Nitrate of soda ..	736	771	362	545	912	651
Ammonium sulphate ..	6,848	6,765	17,645	14,880	21,040	17,333
Cyanamide ..	615	855	—	—	103	—

IMPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES (cont.)						
Formosa—						
Nitrate of soda ..	768	1,263	913	545	483	237
Ammonium sulphate ..	252,638	247,046	180,625	418,679	477,107	291,426
Other nitrogen fertilizers ..	492	984	1,230	6,070	5,138	40,966
Indonesia—						
Nitrate of potash ..	101	244	199	142	219	181
Nitrate of soda ..	398	220	163	202	—	219
Ammonium chloride ..	224	223	509	389	301	311
Ammonium sulphate ..	100,237	122,484	148,173	106,871	208,573	139,950
Anhydrous ammonia ..	1,686	1,386	1,333	809	1,124	920
Other nitrogen fertilizers ..	922	3,272	1,465	1,736	662	6,167
Israel—						
Ammonium sulphate ..	36,377	30,255	295	—	—	n.a.
Nitrogen fertilizers ..	5,979	11,003	3,848	7,944	6,858	n.a.
Japan—						
Nitrate of soda ..	7,759	9,246	11,909	13,578	15,831	16,354
Ammonium sulphate ..	—	101	536	—	—	3,839
Jordan—						
Nitrogen fertilizers ..	n.a.	2,036	488	1,275	1,811	805
Korea (South)—						
Ammonium sulphate ..	63,700	26,481	8,431	471,998	391,960	508,218
Ammonium nitrate ..	n.a.	n.a.	n.a.	32,434	22,613	24,180
Ammonium chloride ..	n.a.	n.a.	n.a.	417	743	453
Cyanamide ..	n.a.	n.a.	n.a.	511	518	1,380
Lebanon—						
Nitrogen fertilizers ..	20,939	27,574	25,191	22,337	26,158	36,787
Philippine Republic—						
Nitrate of potash ..	1,803	59	1,482	105	989	3,512
Nitrate of soda ..	—	33	—	—	—	142
Ammonium phosphate ..	13,487	11,247	39,840	2,781	24,365	21,301
Ammonium sulphate ..	49,304	32,302	50,241	19,643	95,269	47,955
Other nitrogen fertilizers ..	n.a.	4,332	n.a.	46,089	30,504	34,959
Syria—						
Nitrogen fertilizers ..	20,364	16,116	13,877	24,198	19,824	30,908
Thailand—						
Nitrate of potash ..	394	547	1,052	823	829	787
Ammonium chloride ..	139	280	361	513	595	741
Ammonium sulphate ..	3,463	15,185	21,108	17,351	22,321	28,757
Other nitrogen fertilizers ..	14,041	195	1,007	2,158	433	2,289
Turkey—						
Nitrate of soda ..	125	2,988	1,588	440	5	1,476
Ammonium chloride ..	306	160	122	372	549	198
Ammonium sulphate ..	4	39,593	38,599	32,183	88,368	39,583
Ammonium nitrate ..	410	2,308	915	4,516	1,126	1,366
Vietnam (South)—						
Nitrogen fertilizers ..	16,638	27,824	23,224	40,415	80,859	n.a.

PETROLEUM AND ALLIED PRODUCTS

PRODUCTION OF CRUDE PETROLEUM*

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Crude petroleum	53,600	66,100	82,000	79,900	82,700	85,400
Shale oil	96,700	77,600	71,100	63,400	60,500	59,900
Nigeria (b)	—	—	1,200	270,000	557,000	867,000
Union of South Africa—						
Shale oil (a)	36,337	36,798	24,850	23,948	26,125	25,062
Canada (b)	17,258,700	22,930,855	24,246,401	22,066,159	24,637,133	25,578,909
Barbados	—	—	—	—	20	419
Trinidad (b)	3,556,544	4,132,681	4,866,278	5,336,437	5,845,542	6,051,047
Bahrain Islands (c)	1,489,100	1,478,400	1,593,000	2,004,000	2,199,000	2,213,000
British Borneo—						
Brunei	5,133,440	5,547,433	5,458,923	5,089,492	5,262,702	4,473,867
Sarawak	65,614	70,616	65,906	56,902	54,708	59,442
India (b)	r 330,000	r 378,010	421,769	419,000	434,250	442,740
Pakistan (b)	295,340	302,550	314,240	324,600	333,400	376,600
Kuwait (c)	53,894,068	54,117,349	56,375,946	69,117,138	68,437,498	80,570,000
Qatar (c)	5,361,779	5,783,812	6,504,814	8,091,813	7,866,650	8,078,000
New Zealand	814	1,000	838	784	771	783
TOTAL	r87,572,000	r94,923,200	100,027,000	112,944,000	115,798,000	128,882,000
OTHER COUNTRIES						
Albania	204,792	261,551	482,030	397,000	471,000	(d) 590,000
Austria	3,608,211	3,373,351	3,135,286	2,791,599	2,419,951	2,409,722
Bulgaria	148,000	242,892	280,000	218,000	189,000	197,000
Czechoslovakia	105,000	106,000	106,000	104,000	121,000	135,000
France	864,047	1,242,880	1,395,108	r 1,368,637	1,597,000	1,950,000
Germany (Federal)	3,097,000	3,451,000	3,897,000	4,362,000	5,022,000	5,443,000
Hungary	1,576,000	1,183,000	663,000	816,000	1,019,000	1,196,000
Italy	200,350	559,773	r 1,241,627	1,521,288	1,668,643	1,965,919
Netherlands	r 1,006,056	r 1,077,008	r 1,497,269	r 1,595,573	1,745,207	1,887,382
Poland	177,000	180,800	177,700	172,200	172,100	191,000
Roumania	10,388,782	10,747,993	11,003,713	11,157,266	11,257,000	11,318,000
U.S.S.R.	69,675,000	82,482,000	96,793,000	111,417,000	127,600,000	145,000,000
Yugoslavia	253,143	289,041	389,313	454,855	583,128	928,662
Algeria	r 54,286	33,010	18,704	r 432,041	1,320,036	8,701,758
Angola	—	8,246	9,882	49,833	49,721	65,794
Congo (Republic of)	—	—	—	—	—	51,028
Egypt	1,792,640	r 1,728,000	r 2,359,000	r 3,135,000	3,044,000	3,220,000
Gabon	—	—	r 173,796	497,000	741,433	787,470
Morocco	100,838	95,913	73,910	73,153	93,079	90,877
Cuba (b)	50,000	69,000	56,000	45,000	26,000	(d) 15,000
Mexico (b)	12,591,900	12,802,000	12,496,000	13,338,000	13,576,000	13,951,000
United States (b)	r331,257,100	r348,971,100	r348,920,100	r326,535,500	r343,278,700	r343,324,400
Argentina	4,324,564	r 4,364,500	4,781,345	r 5,017,000	6,278,900	9,009,800
Bolivia (b)	354,000	420,200	470,100	451,700	416,800	408,900
Brazil	271,993	545,991	1,357,134	2,545,552	3,034,000	3,815,000
Chile	331,000	455,000	556,000	715,000	825,000	928,000
Colombia (b)	5,593,046	6,215,631	6,442,880	6,605,735	7,545,600	7,855,000
Ecuador (b)	479,883	455,676	425,093	409,718	368,000	364,000

*Excluding Natural Gasoline. See page 232.

(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 7.5, Argentina 7.1, Bolivia 7.6, Colombia 7.1, Ecuador 7.5, Venezuela 6.95, Indonesia 7.5.

(c) British Protected State.

(d) Estimated.

PRODUCTION OF CRUDE PETROLEUM (cont.)

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Peru	2,265,317	2,502,812	2,523,040	2,458,907	2,332,000	2,490,000
Venezuela	113,205,000	129,279,000	146,753,000	136,697,000	145,417,118	149,767,000
Burma	215,193	245,776	399,779	469,321	536,047	551,086
China (a)	950,000	1,140,000	1,440,000	2,220,000	3,400,000	5,000,000
Formosa	3,110	2,790	2,310	1,980	1,720	1,870
Indonesia	11,604,063	12,592,104	15,230,000	15,850,000	17,930,538	20,270,726
Iran (b)	15,772,000	25,934,000	34,765,000	39,780,000	44,677,000	50,991,000
Iraq	33,149,233	30,820,078	21,558,279	35,128,861	41,080,000	44,138,000
Israel	—	27,000	57,000	100,439	120,000	129,000
Japan	301,000	303,000	314,000	359,000	397,000	514,000
Netherlands New Guinea (c)	477,954	357,632	326,486	262,782	241,106	244,579
Saudi Arabia	46,784,693	47,935,041	48,229,690	49,399,006	53,307,390	61,087,931
Turkey	175,774	300,789	293,430	322,700	367,000	356,760
Neutral Zone (d)	r 1,274,000	r 1,682,000	r 3,348,000	r 4,282,000	6,110,000	7,180,000
TOTAL	r674,700,000	r734,500,000	r774,400,000	783,600,000	850,400,000	908,000,000
WORLD'S TOTAL	r762,300,000	r829,400,000	r874,400,000	r896,500,000	966,200,000	1,037,000,000

(a) Including oil from shale and coal.

(b) 1954 Oil Agreement Area only.

(c) Exports.

(d) Neutral Zone of Kuwait and Saudi Arabia.

PRODUCTION OF NATURAL GASOLINE

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Canada	97,335	102,696	110,018	111,146	158,748	158,495
Trinidad (a)	31,093	29,295	30,100	26,196	24,694	23,686
Brunei	56,131	61,395	69,668	71,508	70,793	64,465
OTHER COUNTRIES						
Italy	55,898	r 61,722	r 64,893	r 63,904	60,489	58,088
Poland	20,100	19,200	18,300	18,100	18,100	18,800
Roumania	201,000	212,000	219,000	231,000	254,000	n.a.
Egypt	5,689	5,500	6,100	9,000	10,000	n.a.
Mexico	228,000	398,000	455,000	823,000	1,085,000	n.a.
United States	b12,168,180	b12,118,520	b12,283,980	b11,889,560	b11,527,120	11,297,570
Argentina	8,280	8,857	9,018	10,000	11,000	n.a.
Colombia	148,069	147,034	142,788	144,322	90,967	80,572
Ecuador	19,664	19,410	18,849	18,033	16,000	n.a.
Peru	106,154	109,364	106,074	87,419	n.a.	n.a.
Venezuela	404,000	430,000	436,515	503,629	525,202	403,096
Formosa	433	393	367	259	236	n.a.
Japan	3,700	3,600	3,100	1,700	2,000	4,000
WORLD'S TOTAL (c)	r13,550,000	r13,730,000	r13,970,000	r14,010,000	14,000,000	14,000,000

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

(b) Including isopentane.

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

PRODUCTION OF NATURAL GAS*

Million cubic feet

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Barbados	133	125	108	98	94	343
Canada	150,772	169,153	220,007	337,804	417,335	504,452
Trinidad	40,860	51,742	65,418	79,191	94,417	97,652
Brunei	2,713	2,890	2,671	2,609	2,694	2,879
Pakistan	1,376	10,441	15,349	19,308	22,365	29,842
New Zealand	5	8	7	5	5	5
OTHER COUNTRIES						
Austria	27,058	26,307	26,787	28,968	39,835	51,844
Czechoslovakia	6,106	9,687	27,260	44,000	<i>n.a.</i>	<i>n.a.</i>
France	9,682	11,681	20,711	<i>r</i> 37,344	92,299	156,800
Germany (Federal)	10,905	16,281	16,378	16,588	19,377	22,707
Hungary	19,176	17,022	14,437	13,258	11,701	12,012
Italy	128,095	157,690	176,118	182,762	216,040	227,030
Netherlands	<i>r</i> 5,120	<i>r</i> 5,970	<i>r</i> 5,860	<i>r</i> 7,350	8,830	11,200
Poland	13,889	15,411	14,800	13,564	14,980	19,400
Roumania	140,278	154,464	163,605	179,233	204,202	230,205
U.S.S.R. (a)	317,162	426,144	656,250	<i>r</i> 991,820	1,249,600	1,700,000
Yugoslavia	1,946	2,424	1,466	1,627	1,765	1,869
Gabon	—	—	—	—	244	263
Morocco	265	258	119	65	146	<i>n.a.</i>
Tunisia	156	205	213	206	223	253
Mexico	<i>r</i> 119,787	125,152	163,952	<i>r</i> 262,662	329,408	341,311
United States	9,405,351	10,081,923	10,680,258	11,030,298	12,046,115	12,771,038
Argentina	37,389	40,533	49,945	58,400	25,700	37,400
Bolivia	200	<i>r</i> 250	<i>r</i> 280	200	250	<i>n.a.</i>
Brazil	2,185	2,962	5,551	10,611	15,100	18,900
Colombia	19,030	21,900	22,400	28,000	32,100	78,100
Peru	35,694	<i>n.a.</i>	44,272	45,171	<i>n.a.</i>	<i>n.a.</i>
Venezuela	858,434	976,368	1,134,456	1,113,031	1,124,264	1,114,578
Burma	<i>n.a.</i>	231	225	325	178	730
Formosa	1,007	1,056	1,105	981	930	898
Indonesia	67,948	72,825	76,560	73,600	79,415	86,576
Iran	<i>n.a.</i>	15,500	25,600	26,300	32,055	36,299
Japan	5,492	6,244	8,604	12,992	17,896	25,831
Saudi Arabia	44	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

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

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

Production: 1955—221; 1956—244; 1957—291; 1958—334; 1959—477; 1960—642.

Shipments: 1955—236; 1956—267; 1957—310; 1958—352; 1959—375; 1960—475.

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

PRODUCTION OF ASPHALT ROCK

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
France	80,861	78,465	69,972	86,048	89,400	94,617
Germany (Federal) ..	125,331	112,356	96,141	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Italy	375,612	383,586	327,740	277,548	405,706	400,630
Angola	17,022	18,587	21,181	34,175	27,500	25,376
United States (a) ..	1,274,292	1,302,262	1,043,310	1,184,369	1,356,040	1,110,000
Philippine Republic ..	3,199	671	1,081	2,445	11,601	18,081
Syria	28,120	42,351	20,529	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

(a) Sales.

PRODUCTION OF NATURAL ASPHALT, ETC.

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Trinidad	136,729	141,127	135,930	133,042	145,418	154,296
OTHER COUNTRIES						
Spain	6,341	10,300	11,158	10,115	8,107	8,667
United States (a)— Gilsonite	73,948	79,467	185,450	283,286	338,716	342,000
Argentina— Grahamite ("Rafaelite") (b)	1,627	1,214	1,393	1,832	1,553	2,125
Impsonite	10,279	9,544	25,365	15,600	10,600	6,200
Iraq	12,710	<i>n.a.</i>	91,731	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

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

(a) Sales.

(b) Exports.

PRODUCTION OF OIL-SHALE

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Great Britain	1,336,093	1,053,835	902,062	740,974	708,476	668,800
Union of South Africa (a)	274,459	256,942	<i>n.a.</i>	145,486	134,706	144,971
OTHER COUNTRIES						
Austria	841	707	694	320	224	751
France	214,360	143,869	40,538	2,552	2,904	2,400
Italy	207	153	89	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Spain	486,669	588,337	728,231	760,908	831,482	819,361
Sweden (b)	1,829,070	1,823,214	1,844,214	1,774,245	2,029,800	2,259,000

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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom (a)—						
Aviation and motor spirit	7,220,000	7,215,000	5,693,000	6,751,000	7,531,000	7,917,000
Other spirit	295,000	253,000	236,000	144,000	141,000	167,000
Kerosine	780,000	859,000	839,000	1,292,000	1,772,000	2,284,000
Gas oil and diesel oil ..	4,474,000	5,062,000	4,850,000	6,285,000	7,241,000	7,648,000
Fuel oil	10,776,000	10,931,000	10,611,000	12,572,000	15,599,000	18,533,000
Fuel used in refineries..	2,055,000	2,122,000	2,073,000	2,503,000	3,032,000	3,290,000
Lubricating oil	693,000	773,000	732,000	751,000	863,000	912,000
Bitumen.. .. .	862,000	933,000	841,000	860,000	961,000	1,037,000
Paraffin wax	18,000	24,000	31,000	30,000	31,000	36,000
Union of South Africa—						
Motor spirit	335,000	379,000	417,000	483,000	488,000	<i>n.a.</i>
Kerosine	45,300	46,000	55,000	53,000	152,000	170,000
Gas and diesel oil	125,000	144,000	288,000	349,000	344,000	306,000
Fuel oil	94,000	92,000	337,000	320,000	293,000	235,000
Lubricating oil	5,000	12,000	27,000	22,000	25,000	<i>n.a.</i>
Canada (b)—						
Aviation spirit	81,745	84,313	65,916	56,688	55,158	123,373
Motor spirit	8,798,664	9,851,289	9,902,237	9,883,168	10,947,289	11,412,518
Naphtha	106,714	83,752	111,114	139,646	157,600	198,900
Kerosine	1,387,450	1,421,749	} 1,331,965		1,606,601	1,771,633
do. Power	20,815	50,311	} 609,645		544,769	535,093
Aviation turbine fuel ..	334,841	510,748			544,769	611,166
Gas oil, etc.	3,886,616	5,185,863	5,192,768	5,210,764	6,284,988	6,385,447
Diesel oil	2,106,145	2,886,560	3,547,553	3,101,204	3,787,358	3,837,402
Fuel oil	4,963,500	6,144,804	5,847,852	} 6,103,945		6,743,127
do. (used in refineries)	855,719	998,908	1,043,656			6,496,024
Lubricating oil	215,970	} 296,492		262,846	269,851	287,893
Grease	12,488			296,855		
Coke	240,981	241,879	244,014	403,200	468,958	575,951
Asphalt	1,151,127	1,344,347	1,305,098	1,429,999	1,494,174	1,531,016
Trinidad—						
Aviation spirit	215,859	256,784	335,771	382,456	441,238	469,935
Motor spirit	906,072	954,535	1,027,572	1,238,575	1,297,949	1,214,450
White spirit	160	4,586	3,949	7,180	7,657	8,577
Kerosine	107,522	98,140	126,089	136,168	142,954	174,859
do. Power	276,669	272,257	290,479	257,785	212,911	130,969
Gas and diesel oil	1,023,315	1,234,118	1,454,500	1,709,132	1,809,615	1,824,563
Fuel oil	2,687,419	3,035,120	3,377,904	3,906,347	5,374,073	6,845,265
Lubricating oil and greases	392	402	569	338	340	331
Bitumen	67,064	48,116	56,990	39,105	40,600	29,362
Other finished products	78,267	148,960	125,350	541,480	180,003	783,362
Aden—						
Motor spirit	634,636	682,725	668,989	606,416	597,590	621,319
Kerosine	355,512	295,376	284,564	309,748	395,489	321,813
Fuel oils	3,054,878	3,386,366	3,111,110	2,688,366	2,951,510	3,092,829
Bahrain Islands (c)—						
Motor spirit	2,219,300	1,973,600	1,636,000	2,032,000	1,983,000	2,097,000
Kerosine	777,100	715,400	560,000	657,000	716,000	715,000
Gas oil and diesel oil ..	1,950,600	1,841,600	1,928,000	2,029,000	2,097,000	2,240,000
Fuel oil	3,944,500	4,390,400	4,368,000	4,084,000	3,835,000	4,356,000
Lubricating oil	—	—	—	—	—	39,000
Bitumen.. .. .	120,600	109,100	94,000	67,000	75,000	104,000

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

(a) Including distillation plants.

(b) Including the amounts used in the refineries. In the case of fuel oil these amounts are shown separately for the years 1955 to 1957.

(c) British Protected State.

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

Long tons

Producing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES (cont.)						
India—						
Motor and other spirits	r 785,010	r 949,010	r 1,025,000	971,000	935,960	1,030,600
Kerosine	r 442,000	r 537,000	r 608,000	633,010	724,340	916,550
Gas and diesel oils ..	r 583,000	r 700,010	r 912,010	1,173,000	1,396,750	1,574,340
Fuel oil, etc. ..	992,010	1,394,000	1,574,010	1,623,010	1,656,040	1,666,060
Lubricating oils ..	16,000	r 17,000	r 17,000	18,000	21,190	21,250
Bitumen	r 84,000	r 161,990	r 174,000	223,010	285,830	393,470
Other refined products	r 74,000	r 70,000	r 67,990	55,990	50,820	64,580
Kuwait (a)—						
Motor spirit	46,000	47,000	43,000	43,000	85,000	139,000
Kerosine	17,000	19,000	21,000	29,000	40,000	39,000
Gas and diesel oils ..	290,000	280,000	258,000	1,355,000	1,642,000	1,968,000
Fuel oil	872,000	860,000	816,000	3,432,000	4,025,000	5,127,000
Bitumen	11,000	14,000	14,000	21,000	22,000	33,000
Pakistan—						
Motor spirit	63,700	65,000	69,700	72,000	82,000	89,000
Kerosine	10,300	17,000	16,200	13,800	14,000	19,000
Diesel oil	54,000	58,000	61,000	67,000	69,000	75,000
Fuel oil	92,000	106,000	104,000	103,000	109,000	105,000
Lubricating oil ..	5,000	4,000	6,000	6,000	6,000	6,000
Bitumen	10,000	18,000	13,000	16,000	12,000	20,000
Sarawak—						
Motor spirit (b) ..	560,400	598,800	566,400	594,400	550,600	568,900
Gas and diesel oils ..	} 1,840,300	1,850,600	1,738,900	1,726,100	1,773,900	} 1,303,100
Fuel oil						
Australia—						
Aviation spirit	n.a.	32,556	47,648	51,438	37,363	47,651
Motor spirit	1,493,700	2,407,125	2,833,009	3,223,322	3,247,875	3,593,532
Kerosine	n.a.	20,760	52,980	108,832	128,887	175,547
Aviation turbine fuel ..	n.a.	73,705	118,705	121,797	197,660	239,053
Gas oil	286,943	} 1,648,000	1,709,146	2,120,394	2,059,246	2,552,555
Diesel oil	656,320					
Fuel oil	1,870,745	2,535,137	2,750,508	2,743,044	2,849,518	3,170,655
do. (used in refineries)	322,871	510,194	557,688	668,236	775,913	841,865
Lubricating oil ..	67,421	35,070	34,136	31,718	31,102	30,235
Bitumen	161,500	200,893	209,844	237,366	274,399	286,620
Irish Republic—						
Motor spirit	—	—	—	—	108,000	278,000
Kerosine	—	—	—	—	12,000	26,000
Jet fuel	—	—	—	—	300	7,000
Gas and diesel oil ..	—	—	—	—	170,000	406,000
Fuel oil	—	—	—	—	310,000	598,000
OTHER COUNTRIES						
Albania—						
Motor spirit	4,269	6,428	20,991	31,000	n.a.	n.a.
Kerosine	5,435	6,069	2,580	3,000	n.a.	n.a.
Diesel oil	5,825	8,721	37,606	49,000	n.a.	n.a.
Austria—						
Motor spirit	273,334	237,473	252,118	228,604	282,090	277,100
Kerosine	171,051	45,352	30,613	21,696	33,010	38,960
Gas oil	571,143	615,432	640,482	589,508	618,980	596,440
Fuel oil	1,012,217	949,751	897,053	776,007	724,020	804,320
Lubricating oil ..	57,718	56,608	63,989	54,612	63,950	77,430
Bitumen	n.a.	33,530	54,330	62,350	64,910	66,620

(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	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Belgium—						
Motor spirit	949,000	1,160,000	1,125,000	1,329,000	1,324,000	1,362,000
Kerosine	164,100	204,500	200,600	232,100	306,200	264,300
Gas oil	1,146,000	1,382,000	1,228,000	1,551,000	1,602,000	1,705,000
Fuel oil	1,689,000	1,937,700	2,043,000	2,556,000	2,547,000	2,591,000
Lubricating oil ..	16,600	23,600	28,300	26,200	31,500	28,200
Asphalt, etc.	148,000	224,000	288,200	276,100	431,300	97,900
Bulgaria—						
Diesel oil	5,000	11,453	13,823	18,000	<i>n.a.</i>	<i>n.a.</i>
Fuel oil	15,500	31,091	39,985	41,000	54,000	<i>n.a.</i>
Lubricating oil ..	8,000	15,386	18,034	21,000	19,000	<i>n.a.</i>
Czechoslovakia—						
Motor spirit	<i>n.a.</i>	355,000	369,000	330,000	<i>n.a.</i>	<i>n.a.</i>
Kerosine	84,000	95,000	108,000	68,000	56,000	82,000
Diesel oil	395,000	483,000	644,000	798,000	966,000	1,152,000
Denmark—						
Gas and diesel oil ..	7,791	6,473	6,647	9,284	11,184	10,872
Lubricating oil ..	3,090	2,879	2,483	2,363	(a) 2,116	(a) 2,254
Grease	r 1,486	r 1,908	r 1,506	2,019	(a) 3,272	4,827
Asphalt	23,652	17,881	22,947	24,136	26,225	27,823
France—						
Motor spirit	5,029,000	5,376,000	5,285,000	5,745,000	6,096,000	6,325,000
Kerosine	445,000	407,000	341,000	} 811,000	1,135,000	1,344,000
Jet fuel	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>			
Gas and diesel oil ..	3,477,900	3,388,000	2,867,000	3,334,000	3,276,000	3,322,000
Fuel oil	11,016,000	12,170,000	11,339,000	14,517,000	14,533,000	15,375,000
Lubricating oil ..	531,000	584,000	560,000	555,000	588,000	718,000
Other products (b) ..	2,025,000	2,258,000	2,218,000	2,474,000	2,103,000	2,247,000
Germany (Federal)—						
Aviation spirit	241,576	309,979	360,269	428,068	594,408	757,987
Motor spirit	2,930,082	3,083,268	3,262,447	3,820,004	4,571,755	5,486,163
Kerosine	164,974	208,568	100,432	192,445	261,308	255,625
Diesel oil	2,891,967	3,177,783	3,153,364	3,760,695	4,387,843	4,789,801
Fuel oil	1,888,726	2,325,228	2,677,668	4,281,043	8,444,428	13,143,837
Lubricating oil ..	356,883	381,324	336,699	362,141	394,559	448,565
Grease	9,678	9,091	10,008	12,104	12,408	16,537
Paraffin wax	42,223	45,530	48,196	47,204	48,120	57,166
Coke	200,181	227,716	247,554	254,782	296,810	302,168
Bitumen	654,962	699,159	733,955	877,183	1,060,776	1,142,057
Greece—						
Motor spirit	—	—	—	—	167,000	205,000
Kerosine	—	—	—	—	104,000	123,000
Aviation turbine fuel ..	—	—	—	—	88,000	70,000
Diesel oil	—	—	—	—	427,000	439,000
Fuel oil	—	—	—	—	657,000	703,000
Asphalt	—	—	—	—	39,000	41,000
Hungary—						
Motor spirit	184,527	148,753	248,000	268,000	295,940	324,208
Kerosine	64,379	62,430	50,131	46,000	44,000	<i>n.a.</i>
Gas oil	349,909	328,260	453,557	520,000	<i>n.a.</i>	719,522
Fuel oil	643,000	502,000	589,000	671,000	821,482	971,605
Lubricating oil ..	33,000	34,000	43,000	31,000	27,000	<i>n.a.</i>
Italy—						
Motor spirit	2,675,339	3,049,293	3,032,293	3,398,000	3,910,171	4,947,358
White spirit	26,428	41,741	26,515	36,075	31,192	32,460
Kerosine	1,096,675	1,117,165	1,018,934	1,174,936	1,008,690	1,044,207
Gas oil	3,529,642	3,882,080	4,285,819	4,596,404	5,095,212	5,850,372
Fuel oil and diesel oil ..	7,651,255	8,373,727	9,469,454	11,711,608	12,852,565	15,104,086
Lubricating oil ..	145,598	164,901	147,182	151,624	150,956	163,174

(a) Production in major establishments only.

(b) Other than butane and propane.

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

Long tons

Producing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Italy (cont.)—						
Coke	120	169	(a)	(a)	(a)	(a)
Bitumen	384,608	432,499	446,003	553,304	623,842	686,100
Other products.. .. .	308,587	366,277	416,343	529,394	618,084	700,571
Netherlands—						
Motor spirit	2,340,000	2,327,000	2,691,000	2,818,000	2,567,000	3,164,000
Kerosine	720,000	729,000	492,000	1,200,000	1,278,000	1,405,000
Gas and diesel oil	2,629,000	2,648,000	3,132,000	3,311,000	3,381,000	4,380,000
Residual fuel oil	5,219,000	6,558,000	6,169,000	5,946,000	6,451,000	7,918,000
Lubricating oil	67,000	140,000	172,000	156,000	189,000	203,000
Bitumen	304,000	264,000	230,000	218,000	261,000	379,000
Poland—						
Motor spirit	52,700	52,200	69,700	77,000	93,000	n.a.
Kerosine	27,506	15,717	6,700	8,000	13,000	n.a.
Gas and diesel oil	131,800	142,500	168,600	194,000	200,600	236,000
Fuel oil	123,800	116,300	57,000	49,000	56,000	n.a.
Lubricating oil	125,000	133,000	158,000	143,000	157,000	n.a.
Portugal—						
Motor spirit	212,200	219,000	220,521	277,967	300,673	294,669
Kerosine	165,200	151,000	118,008	136,845	202,904	156,277
Jet fuel	n.a.	n.a.	21,159	15,819	19,197	16,968
Gas and diesel oil	143,300	208,000	209,180	236,728	187,677	254,516
Fuel oil	315,300	328,000	362,425	399,792	412,071	446,664
Roumania—						
Motor spirit	2,593,451	2,706,198	2,756,076	2,775,993	2,655,000	2,748,000
Kerosine	1,340,362	1,364,086	1,412,583	1,505,298	1,259,000	1,269,000
Gas oil	1,600,259	1,611,231	1,734,778	1,778,820	2,241,000	2,338,000
Fuel oil	3,972,795	4,055,503	3,972,823	3,867,862	3,885,000	3,764,000
Bitumen	130,000	136,000	169,000	181,000	207,000	245,000
Spain—						
Motor spirit	378,224	420,072	376,741	787,000	603,000	575,000
Kerosine	50,444	48,536	118,808	231,000	263,000	257,000
Gas oil	408,746	444,730	567,883	806,000	855,000	855,000
Diesel oil	n.a.	n.a.	56,802			
Fuel oil	981,259	1,069,795	1,582,070	1,981,000	1,943,000	2,000,000
Lubricating oil	40,115	n.a.	36,000	37,000	36,000	36,000
Paraffin wax	48	n.a.	n.a.	n.a.	n.a.	n.a.
Sweden—						
Motor spirit	221,537	185,300	243,371	224,439	331,500	372,400
White spirit etc.	9,704	11,389	9,467	7,635	6,600	13,800
Kerosine	120,850	178,114	173,988	120,609	125,159	105,200
Fuel oil, etc.	1,522,443	1,424,497	1,531,729	1,577,208	1,795,800	1,962,800
Lubricating oil	24,159	23,156	19,769	22,754	27,319	n.a.
Asphalt	128,265	142,451	185,920	190,617	240,604	n.a.
Yugoslavia—						
Motor spirit	131,688	169,024	217,243	248,081	245,347	272,869
White spirit	7,857	6,325	8,481	6,827	7,924	8,706
Kerosine	74,257	81,138	72,096	60,665	62,301	72,847
Gas oil	171,125	199,074	247,570	293,337	326,224	348,077
Fuel oil	271,000	306,000	350,000	327,000	352,000	390,000
Lubricating oil	34,510	31,059	40,814	42,118	50,455	60,211
Bitumen	34,917	38,170	44,127	66,781	81,060	70,740
Other products.. .. .	4,019	4,188	6,274	6,216	6,958	7,749
Angola—						
Motor spirit	—	—	—	9,000	9,000	28,000
Kerosine	—	—	—	1,000	1,000	3,100
Gas and diesel oil	—	—	—	9,000	15,000	48,100
Fuel oil	—	—	—	37,000	39,000	94,900
Canary Islands—						
Motor spirit	279,111	351,775	324,364	311,000	338,000	352,000
Kerosine	33,798	41,778	66,953	108,000	105,000	138,000
Gas oil	281,030	354,177	282,392	581,000	674,000	603,000
Diesel oil	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	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Canary Islands (cont.)—						
Fuel oil	674,546	850,467	940,270	1,366,000	1,329,000	1,373,000
Lubricating oil	12,275	n.a.	10,000	13,000	16,000	9,000
Asphalt	64,578	n.a.	n.a.	n.a.	n.a.	n.a.
Egypt—						
Motor spirit	254,720	258,000	284,000	326,000	336,000	270,100
Kerosine	270,715	232,000	273,000	290,000	286,000	365,700
Gas oil	156,877	} 266,000	} 347,000	} 376,000	} 379,000	} 559,700
Diesel oil	196,713					
Fuel oil	1,538,647	1,691,000	2,042,000	1,977,000	2,025,000	2,707,200
Asphalt	85,138	n.a.	n.a.	n.a.	n.a.	n.a.
Morocco—						
Motor spirit	29,930	31,839	28,612	42,969	62,412	73,700
Kerosine	12,331	11,597	8,545	12,271	9,085	10,000
Gas and fuel oils	39,462	31,918	35,797	61,529	62,357	78,600
Cuba—						
Motor spirit	122,800	139,000	321,000	658,000	639,000	575,406
Kerosine	112,300	117,000	144,000	131,000	133,000	142,056
Gas oil and diesel oil	135,300	137,000	455,000	657,000	745,000	488,139
Fuel oil	66,600	84,000	861,000	1,857,000	1,760,000	1,456,692
Lubricating oil	11,100	11,000	10,000	—	—	13,145
Mexico—						
Aviation spirit	47,022	42,459	45,272	45,747	41,723	45,850
Motor spirit	1,953,919	2,016,668	2,461,392	2,562,559	2,908,540	2,927,226
Kerosine	904,622	998,266	1,038,589	1,267,747	1,380,740	1,258,022
Gas and diesel oil	666,548	824,744	1,163,984	1,473,299	1,665,635	2,021,555
Fuel oil	6,966,884	6,461,456	6,268,209	6,490,532	6,410,317	6,130,273
Lubricating oil	79,058	109,959	125,180	124,313	142,785	147,707
Grease	2,359	3,769	3,484	2,891	3,373	3,760
Paraffin wax	22,863	31,530	36,342	39,947	45,067	39,970
Asphalt	183,000	199,000	266,000	241,000	232,000	302,000
Netherlands Antilles (a)—						
Aviation spirit	1,159,251	1,339,431	1,301,733	1,448,616	1,195,762	1,413,993
Motor spirit	3,245,143	2,623,820	2,438,893	3,471,890	2,492,642	2,568,964
Kerosine	1,528,038	1,342,086	1,229,122	1,229,209	1,535,172	1,326,787
Aviation turbine fuel	1,227,937	1,620,798	1,859,385	2,340,282	2,006,922	1,660,951
White spirit	136,661	54,215	46,386	54,092	100,112	67,398
Gas oil	2,822,938	2,556,587	2,744,541	3,991,875	3,216,223	3,186,203
Diesel oil	2,313,976	2,612,650	1,916,776	1,926,428	1,848,607	1,476,405
Fuel oil	23,154,116	24,999,904	22,928,528	18,805,434	19,766,415	20,162,669
Lubricating oil	635,615	688,656	602,087	617,446	648,592	723,507
Asphalt	702,881	617,596	683,698	746,627	861,786	840,671
United States—						
Aviation spirit	11,490,000	12,313,000	12,481,000	13,131,000	13,739,000	12,748,000
Motor spirit	145,800,000	151,245,000	152,143,000	151,131,000	156,664,000	162,206,000
Kerosine	14,908,000	15,716,000	13,864,000	14,001,000	14,084,000	17,280,000
Jet fuels	7,210,000	8,456,000	8,059,000	9,377,000	11,828,000	11,232,000
Distillate fuel oil	81,757,000	90,324,000	90,715,000	85,672,000	92,122,000	90,509,000
Residual fuel oil	61,298,000	62,227,000	60,616,000	52,990,000	50,735,000	48,438,000
Lubricating oil	7,817,000	8,290,000	7,801,000	7,182,000	7,856,000	8,314,000
Paraffin wax	661,600	670,900	682,600	656,500	703,800	737,000
Coke	5,060,200	5,552,700	5,976,100	6,751,400	7,342,300	10,716,000
Asphalt	13,494,000	14,714,000	13,910,000	14,510,000	15,851,000	16,018,000
Road oil	1,349,400	1,277,000	1,147,000	943,000	1,033,000	950,000
Argentina—						
Aviation spirit	7,000	31,800	41,400	} 1,900,000	{ 54,700	} 51,400
Motor spirit	1,631,000	1,541,000	1,745,800			
Kerosine	834,000	909,455	1,099,300	1,098,000	1,166,000	1,024,000
Gas oil	404,000	406,591	444,000	} 1,779,000	{ 445,000	} 644,500
Diesel oil	745,000	934,600	1,078,000			
Fuel oil	3,586,000	3,432,000	4,906,800	5,244,000	5,408,600	5,994,000
Lubricating oil	106,000	130,600	135,300	165,000	131,800	144,800

(a) Exports.

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

Long tons

Producing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES (cont.)						
Bolivia—						
Motor spirit	105,105	133,207	118,844	270,733	98,608	102,360
Kerosine	18,544	33,651	36,088	43,974	44,245	50,886
Diesel oil	31,362	49,636	55,200	36,578	39,602	47,033
Fuel oil	108,876	134,271	107,245	106,290	91,222	61,189
Brazil—						
Motor spirit	1,293,300	2,058,100	2,065,090	2,151,000	2,258,000	2,538,000
Kerosine	12,000	28,700	169,270	247,000	314,000	435,000
Diesel oil	292,300	393,800	649,350	834,000	903,000	1,355,000
Fuel oil	1,503,000	2,270,000	2,512,400	2,719,000	3,093,000	3,438,000
Lubricating oil	—	—	550	—	—	3,000
Chile—						
Motor spirit	207,800	339,800	364,500	405,000	452,000	520,000
Kerosine	15,000	19,200	27,900	53,100	92,000	141,000
Gas and diesel oil	98,100	167,200	193,800	211,500	239,000	258,000
Fuel oil	241,800	312,300	298,600	347,900	244,000	312,000
Colombia—						
Aviation spirit	22,340	34,721	34,533	46,329	50,804	57,812
Motor spirit	542,483	552,373	645,212	(a) 845,469	(a) 923,511	1,029,681
Other spirit	10,000	10,900	12,300	12,400	14,900	14,900
Kerosine	124,026	144,999	160,636	190,042	203,598	208,447
do. Power	19,659	11,184	20,914	9,926	6,532	3,480
Gas oil	—	—	—	—	18,772	12,990
Diesel oil	199,048	272,788	344,862	380,729	425,655	467,674
Fuel oil	805,357	791,447	1,050,945	1,389,819	1,367,658	1,394,089
Lubricating oil and grease	9,109	8,219	9,759	11,497	14,224	13,603
Coke	33,325	44,611	54,523	88,638	99,485	96,885
Asphalt	54,107	65,599	50,638	50,692	46,333	53,388
Ecuador—						
Motor spirit	76,174	78,289	73,771	84,000	102,000	199,000
Kerosine	25,000	27,338	28,000	29,415	32,000	38,000
Gas and diesel oils	46,376	48,809	48,710	57,284	87,000	94,000
Residual fuel oil	112,938	109,500	117,346	124,375	109,000	176,000
Peru—						
Aviation spirit	13,420	11,441	10,549	9,964	26,000	11,000
Motor spirit	r 531,990	r 551,817	r 561,371	578,465	538,000	557,000
Kerosine	322,764	350,818	377,499	392,237	408,000	464,000
Aviation turbine fuel	—	—	9,027	7,520	8,000	32,000
Diesel oil	540,830	718,233	674,236	680,103	670,000	692,000
Fuel oil	456,866	340,889	372,301	376,219	337,000	358,000
Lubricating oil and grease	10,134	10,823	7,911	12,002	9,000	7,000
Coke	529	132	11	396	n.a.	n.a.
Asphalt	29,649	38,102	20,939	14,484	n.a.	n.a.
Uruguay—						
Motor spirit	252,861	232,379	247,028	237,242	226,254	238,439
Kerosine	109,450	144,016	160,582	156,620	167,797	183,422
Aviation turbine fuel	—	—	—	2,437	4,887	6,617
Gas oil	115,861	81,793	86,362	86,043	69,990	158,667
Diesel oil	47,088	37,396	26,989	45,353	48,508	41,260
Fuel oil	560,532	515,011	519,119	537,627	567,980	607,495
Lubricating oil	—	—	504	622	808	1,643
Asphalt	—	—	15,000	10,600	10,200	10,700
Venezuela—						
Motor spirit	2,974,373	3,223,827	3,891,035	4,435,377	4,709,520	4,380,525
Kerosine	959,911	825,836	1,111,262	1,435,177	1,403,926	1,192,364
Gas oil	2,177,662	2,156,828	} 6,500,068		7,462,894	7,650,295
Diesel oil	3,611,511	4,031,926	} 6,500,068		7,462,894	7,650,295
Fuel oil	15,115,892	18,198,576	19,863,677	20,751,026	24,157,941	26,869,313
Lubricating oil	141,356	166,813	157,989	179,345	164,384	206,100
Asphalt	157,000	295,000	590,000	1,082,000	890,000	1,007,000

(a) Including naptha.

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

Long tons

Producing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES (cont.)						
Burma—						
Motor spirit	36,282	37,428	93,453	123,100	132,310	143,188
Kerosine	30,601	34,693	59,359	81,649	61,375	64,462
Jet fuel	—	—	154	3,327	6,770	14,224
Diesel oil	36,855	37,642	59,924	85,777	96,410	106,860
Fuel oil	40,261	42,783	73,144	59,631	77,279	65,326
Paraffin wax	8,406	8,486	9,903	10,660	11,988	13,021
Coke	—	—	5,593	10,085	n.a.	n.a.
Formosa—						
Aviation spirit	—	—	—	—	5,207	} 215,000
Motor spirit	121,670	116,961	134,179	145,063	166,239	
Kerosine	30,617	25,708	26,440	28,530	32,482	29,000
Jet fuel	60,354	107,550	86,753	110,834	128,274	134,700
Diesel oil	93,561	93,219	114,041	130,411	151,470	176,400
Fuel oil	274,280	306,594	257,331	269,001	332,018	378,000
Asphalt	12,222	25,227	35,542	35,615	42,257	46,831
Indonesia—						
Aviation spirit	286,638	267,589	255,980	211,845	167,569	145,062
Motor spirit	2,244,876	2,134,280	2,108,884	2,082,513	2,194,597	2,106,696
White spirit	n.a.	76,693	n.a.	n.a.	n.a.	n.a.
Kerosine	1,612,315	1,628,842	1,661,775	1,551,079	1,614,317	1,656,183
Fuel, gas, diesel and lubricating oils	5,905,991	5,976,321	6,620,839	6,048,902	6,726,997	6,828,896
Paraffin wax	120,020	103,901	91,430	88,663	100,197	102,462
Asphalt	33,570	34,845	40,811	29,368	28,894	31,002
Other products	504,565	526,267	593,868	626,318	787,955	659,843
Iran (a)—						
Aviation spirit	43,000	300,000	484,000	498,000	503,000	545,000
Motor spirit	1,090,000	1,740,000	2,015,000	2,090,000	2,048,000	2,357,000
Kerosine	1,186,000	1,702,000	2,219,000	2,277,000	2,085,000	2,142,000
Aviation turbine fuel	—	—	—	—	441,000	514,000
Gas and diesel oils	985,000	1,808,000	2,514,000	2,641,000	2,964,000	2,736,000
Fuel oil	3,303,000	4,511,000	6,592,000	6,015,000	6,136,000	7,290,000
Lubricating oil	11,000	11,000	14,000	13,000	15,000	18,000
Bitumen	64,000	213,000	194,000	185,000	254,000	253,000
Iraq—						
Motor spirit	138,501	189,000	(c) 211,000	243,000	(c) 250,000	244,990
Kerosine	157,640	234,000	(c) 220,000	268,000	(c) 241,000	313,529
Gas oil	88,180	} 980,000	} 1,081,000	} 1,106,000	} (c) 1,052,000	} 196,926
Diesel oil	39,100					
Fuel oil	539,762					847,363
Israel—						
Motor spirit	187,000	195,000	162,000	180,000	180,945	203,300
Kerosine	137,000	126,000	135,000	175,000	173,744	176,500
Gas and diesel oils	217,000	185,000	223,000	256,000	299,692	383,200
Fuel oil	348,000	334,000	383,000	416,000	514,328	517,300
Bitumen	21,000	20,000	29,000	30,000	n.a.	n.a.
Japan—						
Motor spirit	1,775,295	2,189,277	2,721,725	3,004,150	3,680,401	4,413,487
Kerosine (b)	473,683	728,797	975,123	1,042,487	1,464,116	1,981,700
Gas oil	623,726	750,077	847,389	1,037,739	1,419,862	1,980,296
Diesel oil	540,111	654,715	541,799	874,629	1,069,930	1,064,677
Fuel oil	3,164,446	4,784,954	6,133,664	6,343,181	8,959,412	14,191,849
Lubricating oil	321,298	394,058	443,571	404,262	465,999	564,978
Paraffin wax	r 23,862	34,488	34,747	36,290	39,703	45,074
Pitch	4,345	—	—	—	—	—
Asphalt	176,837	205,361	269,075	293,722	414,088	461,803
Jordan—						
Motor spirit	—	—	—	—	—	40,923
Kerosine	—	—	—	—	—	43,197

(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	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Jordan (cont.)—						
Gas oil	—	—	—	—	—	41,898
Fuel oil	—	—	—	—	—	65,607
Asphalt	—	—	—	—	—	8,607
Lebanon—						
Motor spirit	155,884	176,178	176,000	115,795	112,993	108,280
Kerosine	81,415	93,356	105,000	76,050	64,396	71,798
Gas oil	165,064	205,207	238,000	166,969	161,836	155,903
Diesel oil	12,676	4,580	—	—	—	—
Fuel oil	429,545	448,205	479,000	370,989	379,085	337,426
Philippine Republic—						
Motor spirit	240,000	313,000	325,000	386,000	384,000	411,000
Kerosine	48,000	59,000	64,000	73,000	80,000	85,000
Gas and diesel oil	122,000	189,000	200,000	232,000	236,000	257,000
Fuel oil	177,000	182,000	249,000	420,000	411,000	422,000
Saudi Arabia—						
Aviation spirit	—	—	—	—	935,000	31,815
Motor spirit	1,272,883	1,247,673	1,021,997	859,673		
Kerosine	977,269	770,152	898,503	1,078,694	621,613	757,097
Jet fuel					396,996	324,720
Diesel oil	2,075,023	2,058,911	1,499,077	2,004,878	1,441,801	1,454,250
Fuel oil	5,162,720	5,163,093	5,543,806	3,728,127	4,614,498	6,655,609
Asphalt, etc.	33,372	38,957	50,745	50,930	51,841	35,935
Turkey—						
Motor spirit	3,800	51,400	61,676	r 65,370	74,110	70,830
Diesel oil	r 5,660	17,600	15,383	23,181	34,370	24,190
Fuel oil	51,400	163,300	154,930	165,531	176,770	179,600
Asphalt	r 12,530	38,632	35,653	42,746	45,840	37,128

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS*

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Crude petroleum	61,256	61,954	14,353	4,189	121,266	48,629
Aviation spirit						
(bunkers) (a) ..	111,863	128,866	162,536	160,700	129,102	98,784
Aviation spirit ..	272,596	282,915	357,101	398,143	346,339	280,361
Aviation turbine fuel ..	106,163	205,505	181,059	460,779	577,167	487,239
Motor spirit ..	913,649	959,549	926,620	1,072,000	855,078	979,069
Other spirit ..	16,145	16,591	16,476	38,398	35,874	37,168
Kerosine—Power						
do. other ..	45,465	42,449	74,672	65,348	54,900	32,092
Gas oil ..	154,281	163,467	140,839	210,323	292,018	603,429
Diesel oil ..	899,617	1,509,468	787,376	1,646,462	1,637,752	2,267,778
Fuel oil ..	399,545	461,140	388,310	488,675	445,398	408,417
do. (bunkers) (a) ..	2,843,214	3,229,733	2,775,298	3,159,670	2,956,371	3,180,155
Lubricating oil ..	4,125,987	4,492,791	3,520,974	3,887,573	4,146,422	4,242,141
Greases (c) ..	342,699	410,022	375,923	392,779	448,286	483,085
Other refined oils						
Other heavy oils						
Paraffin wax ..	22,969	28,276	29,274	29,970	26,638	31,372
	1,820	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
	7,275	9,306	8,439	8,457	8,996	8,664
	1,293	3,570	6,495	7,040	8,245	6,404
Malta (bunkers) (b)—						
Aviation spirit ..	30,258	35,061	24,752	21,943	14,669	13,213
Aviation turbine fuel ..	12,792	38,503	38,497	40,639	31,339	35,109
Gas oil ..	2,354	2,605	1,299	243	8,578	2,185
Fuel oil ..	2,407	1,838	792	—	475	407
Ghana (bunkers) (b)—						
Aviation spirit ..	2,648	4,649	3,837	3,617	—	—
Gas oil ..	203	379	2,156	3,577	4,119	6,119
Diesel oil ..	57	—	4,727	172	2	2
Fuel oil ..	16,635	16,082	5,928	10,801	8,705	8,839
Lubricating oil ..	47	30	1,074	64	19	59
Kenya (bunkers) (b)—						
Aviation spirit ..	—	12,316	10,052	9,475	9,527	13,955
Motor spirit ..	5	3	2	1	1	1
Gas, diesel and fuel oils	102,985	139,542	187,373	105,639	113,835	103,557
Lubricating oil ..	359	427	364	514	433	458
Mauritius (bunkers) (b)—						
Aviation spirit ..	980	986	1,084	1,896	1,866	1,793
Fuel oils ..	7,506	9,988	9,797	6,823	6,312	9,425
Nigeria—						
Crude petroleum	—	—	6	223,866	491,883	827,702
Diesel oil (bunkers) (b)	134	10	380	2,078	1,991	2,478
Gas oil do. (b)	1,256	977	1,044	136	1,304	1,930
Fuel oil do. (b)	11,115	7,537	6,666	6,225	4,361	4,666
Sierra Leone (bunkers) (b)—						
Aviation spirit ..	—	359	517	201	131	201
Fuel and diesel oils	46	57,865	245,178	214,722	219,985	275,709
Tanganyika (bunkers) (b)—						
Aviation spirit ..	—	1,240	610	414	831	818
Gas, diesel and fuel oils	58	84	13	6	832	224
Uganda (bunkers) (b)—						
Aviation spirit ..	—	2,788	3,631	3,213	2,002	2,891

*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 231).

(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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES (cont.)						
Union of South Africa—						
Motor spirit	12,343	19,823	19,348	41,976	27,943	9,897
do. (bunkers) (a) ..	8,488	8,855	9,000	8,856	5,826	6,010
Diesel oil	49,058	40,896	47,395	35,068	70,504	32,764
do. (bunkers)	44,836	38,478	47,498	55,576	37,299	2,642
do. (bunkers) (a) ..	59,093	111,454	162,195	53,541	25,006	22,711
Fuel oil	21,190	15,015	66	25,102	55,011	37,967
do. (bunkers)	182,866	286,493	213,470	231,728	199,923	188,030
do. (bunkers) (a) ..	170,664	344,804	802,597	181,209	160,384	166,517
Asphalt and bitumen ..	18,952	30,605	32,286	30,812	58,106	50,127
Canada—						
Crude petroleum	1,977,683	5,721,078	7,423,230	4,223,924	4,448,298	5,631,325
Motor spirit	41,750	88,635	138,185	19,260	62,043	156,109
Kerosine, etc.	21	116,053	137,454	23,952	21	2,209
Fuel oil	75,048	127,214	164,923	64,351	132,221	105,704
do. (bunkers)	1,116,691	1,191,096	1,334,707	1,076,598	1,339,979	n.a.
Diesel oil (bunkers) ..	234,748	236,621	342,471	369,656	456,365	n.a.
Lubricating oil	229	485	1,759	2,021	948	852
Other oils	91	41	10	27	197	391
Mineral wax	81	105	146	136	159	248
Petroleum coke	53,773	31,369	38,462	27,481	44,152	32,528
Natural gas (million cu.ft.)	11,357	10,828	15,731	86,972	84,764	91,045
British Guiana (a)—						
Aviation spirit (bunkers)	339	347	345	365	489	700
British West Indies—						
Bermuda (bunkers) (a) (b)						
Aviation spirit	47,642	65,273	76,385	79,184	78,630	78,009
Motor spirit	629	559	968	720	2,479	3,478
Aviation turbine fuel	946	1,198	16,591	32,314	37,448	40,225
Kerosine	405	532	533	352	361	809
Fuel oil	33,440	31,111	25,907	7,774	7,429	} 26,784
Diesel oil	2,013	2,954	3,057	1,872	3,413	
Lubricating oil	571	796	974	1,036	518	269
Jamaica (bunkers) (a)—						
Aviation spirit	9,786	5,083	371	1,586	25,889	19,058
Gas oil	4,755	463	576	29	2,106	10,684
Diesel oil	13,578	14,568	25,656	1,598	48,941	64,054
Fuel oil	123,268	56,163	80,407	8,910	106,347	145,991
Trinidad and Tobago—						
Crude petroleum	399,878	540,803	461,171	406,919	458,246	686,192
Aviation spirit	201,471	271,304	358,321	371,445	443,841	912,822
do. (bunkers)	7,507	8,678	12,365	42,505	17,434	12,404
Motor spirit	766,236	943,021	870,379	1,311,969	1,257,237	1,130,783
do. (bunkers)	6,984	268	1,802	16,946	8,279	25
Kerosine—Power	286,479	352,654	345,665	358,071	222,631	140,524
do. (bunkers)	3,154	13	39	—	4,743	13,349
Kerosine—other	87,661	74,147	100,523	97,366	104,296	122,661
do. (bunkers)	248	398	218	171	132	65
Gas oil	463,273	585,988	737,067	926,188	1,233,693	1,258,868
do. (bunkers)	53,390	50,692	75,200	62,888	48,850	37,717
Diesel oil	337,294	408,827	322,438	389,121	179,945	176,124
do. (bunkers)	221,394	600,121	488,659	424,341	370,833	310,011
Fuel oil	1,613,586	3,085,198	1,915,735	2,876,254	3,895,728	4,750,917
do. (bunkers)	809,936	1,584,984	2,012,484	1,235,053	1,471,232	1,537,568
Lubricating oil	99	164	251	317	306	151
Road oil	22,404	21,443	84,252	23,024	29,220	13,167
Asphalt—						
Crude	27	} 43,500	{ —	1	—	—
Dried	49,722			41,258	44,435	48,414	52,748
Asphalt cement	13,107	10,759	12,705	11,129	12,317	5,873
Bituminous asphalt ..	103,508	80,649	75,778	45,639	28,765	32,547

(a) Foreign produce. See imports.

(b) Including bunkers for military forces.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
<i>(cont.)</i>						
Falkland Islands—						
<i>(bunkers) (a)—</i>						
Fuel oil	11,693	8,737	4,497	6,921	27,135	38,453
Aden (g)—						
Aviation and motor						
spirits	666,929	684,352	653,421	620,810	587,845	568,702
Kerosine	427,091	317,181	273,231	310,411	412,961	320,716
Gas, diesel, fuel oils	1,148,727	1,774,357	1,409,925	739,128	1,081,749	1,278,113
Fuel oil (bunkers)	3,090,063	2,514,938	2,101,173	3,408,253	3,280,542	3,557,991
Bahrain Islands (e)—						
Aviation spirit	15,700	20,400	21,000	8,000	10,000	} 1,608,000
Motor spirit	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	289,000
Kerosine	742,800	685,500	536,000	619,000	728,000	811,000
Process oil	278,900	208,100	15,000	—	—	—
Diesel oil	1,683,900	1,612,600	1,740,000	1,480,000	1,919,000	2,058,000
do. (bunkers)	196,200	159,400	156,000	125,000	111,000	95,000
Fuel oil	3,352,200	3,692,300	3,602,000	3,122,000	3,247,000	3,739,000
do. (bunkers)	621,800	599,100	730,000	641,000	615,000	656,000
Asphalt	124,300	103,300	97,000	46,000	75,000	106,000
British Borneo—						
Brunei—						
Crude petroleum (b)	5,108,970	5,526,505	5,371,788	5,053,900	5,295,552	4,505,041
Natural gas (million cubic feet)	2,617	3,245	2,545	2,480	2,540	2,693
Sarawak—						
Crude petroleum (c)	3,182,883	3,439,401	3,545,722	3,157,045	3,238,040	2,475,388
Motor spirit (d)	133,258	288,985	202,679	225,000	334,002	337,023
Kerosine	64	37	6	15	15	—
Gas oil	55	—	48,991	60,541	43,981	39,328
Diesel oil	1,228,285	1,057,708	975,690	950,027	1,112,390	1,121,445
Fuel oil	452,539	636,487	560,134	510,326	469,381	449,787
do. (bunkers) (f)	127,787	148,732	140,792	174,156	157,075	147,183
Ceylon (bunkers) (a)—						
Aviation spirit	3,998	3,614	4,478	6,014	8,267	9,503
Gas oil	14,698	20,219	4,030	6,476	6,637	4,127
Diesel oil	60,938	79,572	76,915	48,644	39,974	49,341
Fuel oil	393,971	472,629	540,096	379,319	374,075	397,339
Cyprus (bunkers) (a)—						
Aviation spirit	5,492	5,696	2,855	2,273	2,583	2,296
Hong Kong—						
Motor spirit	1,195	1,691	868	959	3,827	1,215
Kerosine	2,661	3,139	2,212	1,446	1,855	2,111
Diesel oil and gas oil	5,546	6,192	5,538	6,558	8,669	8,683
Fuel oil	20	134	233	620	1,201	635
Lubricating oil	144	6,534	893	508	563	553
Greases	7	2	5	18	39	21
Petroleum jelly	19	114	194	164	86	66
Paraffin wax	43	138	316	344	107	170
Asphalt and bitumen	220	616	30	2,791	278	563
India—						
Aviation spirit (bunkers)						
Domestic produce	45	—	n.a.	n.a.	n.a.	n.a.
Foreign produce	27,235	32,062	n.a.	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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES (cont.)						
India—(cont.)						
Motor spirit	58,862	21,230	} 146,469	108,402	{ 61,581 11,210	} (f) 193,472
Other spirit	90,896	61,540				
Diesel oil	n.a.	n.a.	n.a.	14,858	122	(f) 6
Fuel oil	n.a.	n.a.	179,880	83,710	52,016	(f) —
do. (bunkers)						
Domestic produce ..	4,388	348,265	n.a.	n.a.	n.a.	n.a.
Foreign produce ..	280,420	693,699	n.a.	n.a.	n.a.	n.a.
Paraffin wax	24,627	27,450	25,594	22,061	22,540	(f) 18,343
Kuwait (c)—						
Crude petroleum ..	52,258,203	52,890,137	54,910,338	63,090,053	61,279,115	71,488,439
Export distillate ..	180,817	101,168	109,376	750,347	785,310	667,884
Gas oil	n.a.	n.a.	n.a.	809,620	960,061	1,478,982
Diesel oil	9,962	3,723	—	113,743	382,536	271,357
do. (bunkers) ..	258,096	253,367	233,945	337,835	224,484	172,655
do. do. (a) ..	10,939	57,907	196,302	18,442	—	—
Fuel oil	—	—	—	1,137,584	1,697,631	2,176,610
do. (bunkers) ..	854,901	853,200	822,090	2,199,515	2,357,238	2,911,169
do. do. (a) ..	259,422	490,426	1,251,685	64,057	—	—
Malaya—						
Crude petroleum ..	(d)	707,202	772,776	856,817	253,713	227,060
Aviation spirit ..	209,711	221,301	196,720	164,455	179,413	126,759
do. do. (bunkers)	9,570	12,170	15,169	18,067	24,269	32,202
Motor spirit	853,652	899,912	847,002	697,450	775,350	817,502
White spirit	72,248	79,652	75,495	53,311	71,796	77,852
Aviation turbine fuel ..	556	67	18,396	22,769	69,117	122,424
Kerosine Power	59,083	70,314	63,884	76,607	34,801	24,346
do. Other	307,154	311,862	241,564	244,551	290,639	326,072
Gas oil	300,603	365,030	424,069	354,574	358,444	369,745
Diesel oil	333,940	348,272	250,013	219,683	169,871	249,268
Fuel oil	(e) 1,037,318	580,892	445,012	188,322	201,920	189,280
Fuel and diesel oil (bunkers) ..	1,761,913	2,025,148	2,228,583	1,999,575	1,841,517	1,917,555
Lubricating oil ..	6,165	5,851	6,522	6,266	5,420	4,392
Petroleum jelly ..	82	69	27	68	53	46
Grease	320	370	349	265	236	159
Paraffin wax	260	42	5,956	88	27	101
Asphalt and bitumen ..	3,998	132,392	98,399	37,001	3,718	5,298
Qatar (c)—						
Crude petroleum ..	5,262,366	5,664,119	6,447,000	8,055,000	7,857,631	7,977,915
Australia (b)—						
Aviation spirit ..	—	—	2,799	381	1,440	8,748
do. do. (bunkers)	1,808	1,116	3,955	4,495	2,392	494
do. do. do. (a)	16,138	16,902	15,837	11,490	5,943	19,080
Motor spirit	43,887	124,873	75,455	155,963	159,070	50,803
Kerosine	} 562	} 23,485	} 17,715	{ 20,321 1,872	{ 14,234 1,597	{ 50,997 23,751
Aviation turbine fuel ..						
Lubricating oil ..	1,055	3,701	3,103	564	688	1,101
Diesel and fuel oils ..	129,387	431,404	573,441	989,736	922,482	1,016,468
Fuel oil (bunkers)—						
Domestic produce ..	207,057	473,017	582,896	518,513	465,221	564,219
Foreign produce ..	336,446	74,207	19,200	8,869	9,602	10,537
Fiji (bunkers) (a)—						
Aviation spirit ..	10,313	9,008	14,779	11,082	15,288	6,324
Diesel oil	4,422	3,466	4,442	6,458	3,772	8,313
Fuel oil	77	598	48	160	1,479	758

(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

(f) Years ended March 31 following that stated.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES (cont.)						
New Zealand						
(bunkers) (c)—						
Aviation spirit	5,242	5,953	6,142	6,219	7,192	3,649
Diesel oil	11,223	18,063	21,229	18,444	21,457	10,408
Fuel oil	15,623	5,981	9,292	9,478	7,511	4,100
Lubricating oil	801	1,061	1,137	1,247	1,247	1,287
Irish Republic (a)—						
Aviation spirit (b) (c) ..	2,597	3,358	3,293	3,064	1,808	3,721
Fuel oil (b)	—	—	—	—	32,990	89,365
do. (b) (c)	46,573	50,308	26,255	44,795	29,061	15,013
OTHER COUNTRIES						
Austria—						
Crude petroleum	10,068	49,371	221	—	1	1
Motor spirit	11,807	10,613	1	—	23	20
Kerosine	14,821	37,299	10,003	1,025	—	—
Gas oil	121,736	322,500	265,534	203,242	167,883	132,531
Fuel oil	—	2,507	8	1,139	5,713	4,884
Lubricating oil, etc. ..	1,982	1,530	791	224	2,474	7,776
Belgium-Luxemburg						
E.U.—						
Crude petroleum	31,309	93,142	48,011	76,312	14,199	24
Motor spirit	306,447	392,538	299,524	484,004	455,321	478,521
Kerosine	104,293	123,015	120,912	159,963	237,453	218,489
Gas oil	303,903	512,960	586,278	628,916	679,892	907,486
Fuel oil, etc.	965,321	1,094,607	932,591	1,157,655	1,022,410	831,592
do. (bunkers) (b)	557,450	728,087	530,143	566,316	576,635	553,504
Lubricating oil	83,772	94,181	85,471	91,499	85,950	96,445
do. (bunkers) (b)	4,740	5,961	6,410	4,889	5,875	5,452
Other heavy oils	4,161	85	2,588	140	377	56
Petroleum jelly	413	519	799	541	917	1,392
Paraffin wax	26	265	58	77	89	37
Ozokerite and ceresin (d)	58	68	67	59	55	44
Petroleum coke	2	3	493	28	437	2,365
Natural asphalt	723	643	748	214	201	224
Pitch	45,253	66,180	72,404	81,189	122,289	163,704
Denmark (bunkers)—						
Gas oil	39,554	32,669	37,571	45,182	39,658	40,696
Diesel oil	84,106	84,021	90,845	97,206	99,115	90,096
Fuel oil	125,328	112,528	114,154	115,111	122,454	104,965
France—						
Crude petroleum	—	2	19,365	44,998	986	812
Aviation spirit	364	10,222	23,015	46,842	58,924	76,034
Motor spirit	1,236,586	1,181,092	934,589	1,287,914	1,305,656	1,566,194
White spirit	5,514	4,346	2,719	2,553	3,915	6,540
Kerosine	433,897	411,121	353,688	456,452	479,247	603,366
Gas oil	1,602,954	1,582,802	1,049,345	1,916,623	1,533,743	1,701,704
do. (bunkers)—						
Domestic produce	324,867	312,409	351,634	401,905	315,291	(b) 27,845
Foreign produce	3,369	3,570	6,896	6,149	11,834	n.a.
Fuel oil	1,759,040	1,293,518	1,113,190	1,891,575	2,117,398	1,954,598
do. (bunkers)—						
Domestic produce	1,736,721	1,809,496	1,454,753	1,837,243	1,762,514	(b) 298,892
Foreign produce	154,736	255,022	340,692	151,516	117,885	n.a.
Lubricating oil	156,740	117,287	106,106	133,649	157,096	186,193
do. (bunkers)—						
Domestic produce	21,004	20,033	23,805	24,786	27,324	(b) 3,434
Foreign produce	3,297	2,525	5,238	2,241	1,160	n.a.

(a) In addition re-exports of aviation spirit, presumably to the "Shannon Free Airport", were as follows (long tons): 1955—81,695; 1956—87,408; 1957—82,672; 1958—95,230; 1959—75,633; 1960—57,455.

(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	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
France <i>(cont.)</i> —						
Petroleum jelly ..	47	31	26	36	32	90
Paraffin wax ..	9,212	7,671	5,218	8,440	10,522	9,952
Ozokerite, ceresin, etc.	162	80	118	440	1,078	1,162
Petroleum coke ..	—	—	13	—	19	6
Natural asphalt and bitumen ..	21,766	18,125	19,415	19,881	18,150	22,435
Mastic asphalt ..	6,440	4,448	5,727	4,971	5,603	6,805
Bitumen ..	194,203	113,865	124,971	147,432	164,206	174,562
Germany (Federal)—						
Aviation and motor spirits ..	327,927	407,113	219,106	366,184	323,613	536,604
do. (bunkers) (a) (c) ..	57,578	64,238	66,967	75,317	67,734	64,940
Kerosine and aviation turbine fuel ..	25,991	35,166	2,593	77,068	23,141	21,169
Aviation turbine fuel bunkers (a) (c) ..	2,117	3,845	5,713	12,001	31,401	78,949
Gas and diesel oil ..	197,668	261,710	186,878	321,706	528,283	682,850
do. (bunkers) (a) (c) ..	303,253	376,151	345,430	365,884	357,013	111,963
Fuel oil ..	164,675	275,401	133,515	172,602	358,369	988,812
do. (bunkers) (a) (c) ..	736,297	932,319	739,188	690,112	729,892	419,366
Lubricating oil ..	57,369	54,044	60,599	44,091	51,804	68,316
do. (bunkers) (a) (c) ..	8,118	9,152	10,718	9,964	10,900	10,226
Petroleum jelly ..	3,975	5,544	6,166	6,265	4,623	5,173
Paraffin wax ..	25,062	28,795	24,476	25,160	28,720	22,760
Ozokerite, etc. ..	248	138	101	205	175	140
Natural asphalt and bitumen ..	1,320	1,888	2,511	975	164	190
Bitumen ..	33,475	30,478	26,431	57,561	38,541	42,477
Petroleum coke ..	32,053	41,978	45,922	44,881	55,588	60,377
Germany (East)—						
Motor spirit ..	180,241	149,907	126,173	74,833	59,078	256,051
Diesel oil ..	269,900	203,163	294,004	271,446	399,721	370,770
Hungary—						
Motor spirit ..	14,731	12,675	68,285	75,412	91,689	99,785
Kerosine ..	29,992	9,423	14,491	9,413	183	163
Gas oil ..	61,355	14,962	96,680	145,618	140,465	159,828
Fuel oil ..	75,881	59,980	7,804	47,547	119,616	219,695
Paraffin wax and ceresin	3,659	2,380	1,837	2,121	2,464	2,362
Italy—						
Crude petroleum ..	122	1	197	203,973	468,747	372,425
Aviation and motor spirits ..	1,672,459	1,769,572	1,452,182	1,841,049	1,533,843	1,821,922
do. (bunkers) (a) ..	12,361	25,924	42,738	40,038	190,999	139,957
White spirit ..	7,994	32,887	22,582	16,682	10,276	16,311
Kerosine ..	446,116	432,584	301,828	307,178	333,551	438,971
Lubricating oil ..	72,703	132,209	26,104	49,107	106,570	40,646
Gas oil ..	1,560,324	1,695,928	1,857,488	1,779,134	1,958,298	2,412,643
do. (bunkers) (a) ..	84,324	100,922	50,810	206,194	88,686	234,143
Fuel oil ..	1,139,080	679,609	1,223,103	2,742,770	2,557,317	1,874,477
do. (bunkers) (a) ..	745,870	735,000	637,161	913,502	1,352,742	1,943,528
Paraffin wax ..	1,670	2,259	1,745	783	557	678
Natural asphalt and bitumen ..	13,173	13,028	11,089	7,500	8,955	9,250
Pitch ..	60,237	72,349	74,278	107,980	102,748	113,790
Netherlands—						
Aviation spirit (bunkers)	22,105	27,044	33,412	(a) 453	(a) 797	(a) 1,499
Motor spirit ..	1,925,085	1,866,565	2,186,670	2,326,815	1,956,761	2,407,071
Kerosine ..	184,673	224,614	384,544	514,854	566,235	573,198
Gas oil ..	1,762,157	1,744,122	1,923,376	2,041,032	2,155,325	2,779,299
do. (bunkers) ..	(b) 584,421	(b) 681,975	(b) 657,846	(a) 324,676	(a) 259,254	(a) 335,332

(a) Bunkers for foreign ships or aircraft only.

(b) Including imported oil.

(c) Figures for 1955-1959 include foreign produce.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Netherlands (<i>cont.</i>)—						
Fuel oil	3,162,437	3,858,197	3,580,907	4,941,011	3,876,710	4,947,274
do. (bunkers) .. .	(b)1,566,116	(b)1,830,248	(b)1,600,581	(a) 824,253	(a) 786,887	(a)1,038,676
Lubricating oil .. .	161,941	178,566	206,130	183,067	213,637	246,767
Petroleum jelly .. .	2,830	2,606	2,724	3,121	5,245	4,083
Paraffin wax	3,315	1,361	1,714	7,262	4,564	16,018
Ozokerite and ceresin(c)	773	1,259	1,711	1,571	1,726	810
Pitch	185,973	110,519	92,263	78,471	90,925	132,274
Natural asphalt. . .	26	5	10	8	17	176
Petroleum coke. . .	5,853	5,488	5,642	20,183	36,042	43,297
Norway—						
Motor spirit	880	917	607	875	881	912
Kerosine	21	565	60	15	267	8
Fuel oil and solar oil .. .	2,058	1,792	1,131	238	316	388
Lubricating oil .. .	8,886	9,508	8,997	10,592	12,159	15,776
Portugal (d)—						
Motor spirit	90,867	86,326	68,840	102,892	83,690	89,984
Kerosine	14,619	13,773	26,269	37,904	35,568	13,919
Fuel oil	102,605	92,194	86,125	159,857	164,004	167,924
do. (bunkers) (a) .. .	990	11,074	3,568	1,216	18,233	5,718
Lubricating oil, etc. . .	741	1,101	1,606	1,622	2,135	2,020
Roumania—						
Motor spirit				2,222,200	2,526,000	2,426,900
Kerosine				656,300	686,600	665,000
Gas oil				1,456,100	1,368,900	1,266,000
Fuel oil				543,000	970,100	1,210,000
Lubricating oil .. .	n.a.	n.a.	n.a.	93,000	152,700	208,100
Paraffin wax				9,200	12,200	19,300
Petroleum coke .. .				13,700	16,000	13,500
Bitumen				58,000	61,300	79,900
Spain—						
Motor spirit	—	14	37,205	86,288	15,431	n.a.
Diesel oil	3	—	12	38,264	4,322	n.a.
Fuel oil	—	—	—	—	31,410	n.a.
Sweden—						
Motor spirit, etc. . . .	51	33	2	487	8,995	8,252
White spirit	285	115	—	—	591	818
Kerosine	2,212	5	—	505	3,406	16,407
Fuel oil and gas oil .. .	259	7,322	9,508	2,309	75,833	48,713
Lubricating oil and grease						
Paraffin wax	1,373	6,591	11,347	14,253	23,293	31,000
Asphalt	36	20	5	4	18	29
Pitch	14	26	62	138	1	3
Pitch	13,210	17,385	22,412	27,764	25,830	30,571
Switzerland—						
Asphalt and bitumen .. .	4,968	4,029	6,237	4,321	2,217	2,498
U.S.S.R.—						
Crude petroleum .. .	2,870,000	3,835,400	5,829,700	8,949,000	12,288,100	17,543,400
Motor spirit	1,382,500	1,418,600	1,678,400	1,862,800	2,582,600	2,773,500
Kerosine	630,500	712,600	893,800	836,700	905,000	1,076,100
Diesel oil	1,326,400	1,976,600	2,656,000	3,429,000	4,570,100	5,083,900
Fuel oil	1,476,500	1,766,300	2,158,200	2,413,100	4,207,500	5,201,300
Lubricating oil and grease						
Paraffin wax	149,400	154,100	198,900	305,500	342,100	374,000
Bitumen	12,000	11,200	11,100	11,900	21,800	23,900
Bitumen	12,000	14,800	17,000	21,800	31,200	36,500
Yugoslavia—						
Motor spirit	—	5,570	41,417	37,197	36,716	30,509
White spirit	1,701	1,774	1,304	673	50	34

(a) Bunkers for foreign ships only.

(b) Including foreign produce.

(c) Including montan wax.

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

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Yugoslavia (cont.)—						
Power kerosine ..	—	3,556	6,383	589	—	—
Gas oil	7,411	15,582	14,985	9,157	7,794	3,555
Fuel oil	30,577	45,698	29,666	26,619	9,547	32,903
Mastic asphalt ..	1,920	6,749	—	—	—	197
Algeria—						
Crude petroleum ..	63,151	20,854	10,693	376,243	821,801	—
Motor spirit (d) ..	16,678	20,165	24,385	28,165	32,474	30,972
Fuel oil	126	33	2	1	36	2
Fuel oil and gas oil (d) ..	680,677	631,371	654,000	525,199	476,892	454,788
Lubricating oil ..	20	31	35	11	12	3
Angola—						
Crude petroleum ..	—	3,598	4,488	—	—	1
Fuel oil	—	—	—	15,449	10,049	45,188
Canary Islands—						
Motor spirit	215,079	218,012	310,795	309,770	308,873	<i>n.a.</i>
Kerosine	46,184	30,310	80,250	79,486	92,561	<i>n.a.</i>
Diesel (c)	72,885	166,737	173,507	172,054	240,559	<i>n.a.</i>
do. (bunkers) (c) ..	188,990	144,253	177,303	123,267	149,314	<i>n.a.</i>
Fuel oil (c)	195,283	188,183	480,992	603,430	583,105	<i>n.a.</i>
do. (bunkers) (c) ..	230,360	290,005	318,616	216,421	246,518	<i>n.a.</i>
Lubricating oil ..	724	12,548	10,506	7,404	19,472	<i>n.a.</i>
Paraffin wax	1,047	589	523	561	578	<i>n.a.</i>
Asphalt	79,290	108,626	117,633	61,433	93,781	<i>n.a.</i>
Cape Verde Islands—						
Fuel oil (bunkers) (b) ..	440,514	433,702	529,433	455,992	465,019	488,376
Ceuta (b)—						
Diesel oil	2,715	76	7,214	50,487	13,139	<i>n.a.</i>
do. (bunkers)	498,912	650,777	505,351	403,350	466,720	<i>n.a.</i>
Fuel oil (bunkers) ..	—	—	92,923	—	—	<i>n.a.</i>
Egypt—						
Crude petroleum ..	—	—	236,094	1,104,963	1,063,877	854,045
Motor spirit	3,118	1,161	1,193	2,331	27,059	82,466
Kerosine	537	2,921	3,184	5,329	5,862	5,908
Gas and diesel oils ..	5,830	9,293	3,873	8,711	7,335	7,393
Fuel oil	282	111	290	3,437	3,250	65,313
do. (bunkers) (a) ..	127,867	119,571	13,364	18,005	8,828	22,844
Lubricating oil ..	111	—	—	—	—	—
Gabon—						
Crude petroleum ..	—	—	141,038	443,327	768,447	795,990
Sudan—						
Aviation spirit (bunkers) (b) ..	13,417	13,742	22,209	18,617	<i>n.a.</i>	<i>n.a.</i>
Tunisia (bunkers)—						
Aviation spirit	1,894	3,201	3,907	212	—	—
Fuel oil	71	340	64	—	55	—
Mexico—						
Crude petroleum ..	738,834	816,424	407,932	112,615	15,827	147,349
Motor spirit	4,467	3,121	29,636	3,859	3,816	4,789
Kerosine	3,261	1,963	1,480	458	21,666	1
Fuel oil	3,042,433	2,724,602	1,625,788	1,558,602	1,817,941	995,775
do. (bunkers)	128,386	163,471	165,970	76,030	81,335	78,938
Gas oil	15,958	3,542	69,395	8,715	10,295	10,654
Paraffin wax	—	1	1	865	3,839	1,270
Natural gas (million cu. ft.) (e)	<i>n.a.</i>	6	16,970	46,211	51,488	46,989
Netherlands Antilles—						
Crude petroleum ..	2,617,923	2,054,676	587,699	507,975	708,830	180,121
Aviation spirit	1,159,251	1,339,431	1,301,733	1,448,616	1,195,762	1,413,993
Motor spirit	3,245,143	2,623,820	2,438,893	3,471,890	2,492,642	2,568,964

(a) Bunkers for foreign ships only.

(b) Foreign produce. See imports.

(c) Including foreign produce.

(d) Bunkers of foreign produce.

(e) Imports into the United States.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Netherlands Antilles						
<i>(cont.)</i>						
White spirit	136,661	54,215	46,386	54,092	100,112	67,398
Kerosine	1,528,038	1,342,086	1,229,122	1,229,209	1,535,172	1,326,787
Aviation turbine fuel .. .	1,227,937	1,620,798	1,859,385	2,340,282	2,006,922	1,660,951
Gas oil	2,822,938	2,556,587	2,744,541	3,991,875	3,216,223	3,186,203
Diesel oil	2,313,976	2,612,650	1,916,776	1,926,428	1,848,607	1,470,405
Fuel oil	23,154,116	24,999,904	22,928,528	18,805,434	19,766,415	20,162,668
Lubricating oil	635,615	688,656	602,087	617,446	648,592	723,507
Asphalt	702,881	617,596	683,698	746,627	861,786	840,671
United States—						
Crude petroleum (b) .. .	1,542,700	3,816,500	6,699,100	579,300	336,600	411,639
Natural gasoline	14,871	22,867	5,193	404	249	144
Aviation spirit	1,748,153	1,618,717	1,647,178	1,326,260	1,151,129	697,894
Motor spirit	869,571	1,057,336	1,447,482	644,359	397,333	261,408
Other finished light products	179,825	129,455	147,421	121,601	127,471	125,301
Kerosine	317,818	366,013	625,450	145,140	118,816	75,106
Aviation turbine fuel .. .	15,307	23,224	13,043	22,274	22,221	14,382
Gas oil and distillate fuel oil	3,041,712	4,454,748	6,309,909	2,400,356	1,775,327	1,366,620
Residual fuel oil	4,011,414	3,230,246	4,794,343	3,298,243	3,109,005	2,742,096
Fuel oil (bunkers)	11,785,000	11,935,000	13,765,000	12,193,000	12,225,000	11,835,000
Lubricating oil	1,879,850	2,412,643	1,808,751	1,687,949	1,826,293	2,079,634
Transformer oil	20,130	28,347	27,370	24,743	31,021	34,229
Greases	58,300	56,717	58,842	45,995	51,998	51,885
Paraffin wax	137,121	93,515	107,623	91,368	102,163	137,697
Petroleum jelly	44,143	41,075	36,126	34,252	34,812	34,613
Natural asphalt and bitumen	29,217	27,539	27,493	24,591	26,499	28,571
Other asphalt, etc. .. .	239,752	210,144	250,748	175,854	132,007	127,753
Petroleum coke	797,026	1,138,544	924,288	786,751	835,778	1,224,644
Liquefied petroleum gases	357,003	360,614	382,908	240,809	189,902	252,196
Natural gas (million cu. ft.)	31,029	35,963	41,655	38,719	18,413	11,332
Argentina—						
Grahamite ("Rafaelite") .. .	1,627	1,214	1,393	1,832	1,553	2,125
Bolivia—						
Crude petroleum	58,583	68,054	131,886	149,900	119,854	130,912
Motor spirit	14,465	22,273	21,995	16,739	355	3,491
Kerosine	825	1,046	1,265	1,141	—	16
Brazil—						
Crude petroleum	—	—	—	1,125,859	1,444,260	579,081
Fuel oil	—	—	141,003	183,018	44,204	59,057
Chile—						
Crude petroleum	—	15,399	46,417	—	66	n.a.
Colombia—						
Crude petroleum	3,537,395	4,027,967	3,966,031	3,359,987	3,917,684	4,284,315
Fuel oil	148,083	167,085	270,015	639,271	627,469	576,704
Ecuador—						
Crude petroleum	191,157	114,203	163,157	91,326	37,316	—
Peru—						
Crude petroleum	307,943	358,227	427,445	315,593	291,416	331,032
Natural gasoline	29,333	20,331	19,538	6,450	1,613	1,501
Aviation spirit	47,714	39,378	52,038	37,677	52,081	54,838
Motor spirit (a)	124,486	88,210	87,558	31,026	33,089	22,492
White spirit	2,279	642	9	58	515	—
Kerosine	93,454	96,860	129,508	93,312	101,518	83,214
Gas oil (a)	252,513	315,712	133,192	71,746	41,232	168,805
Fuel oil and diesel oil .. .	4,143	52,079	142,117	108,253	94,026	111,347
do. (bunkers)	23,675	24,268	29,775	25,524	22,287	

(a) Including bunkers.

(b) Revised conversion factor.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Peru (cont.)—						
Lubricating oil and grease	3,150	2,306	1,631	843	732	109
Asphalt	1,258	3,144	681	—	—	—
Uruguay (a)—						
Motor spirit, etc. ..	<i>n.a.</i>	3,000	4,000	4,000	5,000	10,000
Kerosine	<i>n.a.</i>	—	100	100	100	—
Gas oil and diesel oil ..	<i>n.a.</i>	40,000	43,000	40,000	32,000	48,000
Fuel oil	<i>n.a.</i>	225,000	179,000	159,000	98,000	201,000
Venezuela—						
Crude petroleum	83,680,811	96,222,721	106,634,686	96,039,208	101,561,805	102,975,795
Motor spirit	1,399,860	1,117,137	1,402,057	1,853,480	2,326,159	2,099,542
Kerosine	522,133	550,827	558,318	818,929	790,185	601,461
Aviation turbine fuel ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	16,117	185,740
Gas oil	2,778,959	2,912,410	2,545,487	3,513,975	3,368,399	2,801,104
Diesel oil	1,471,623	1,558,871	1,873,097	1,702,140	1,957,551	2,872,191
Fuel oil	14,827,209	17,497,286	18,010,505	19,726,698	22,549,506	26,848,862
Lubricating oil	130,707	157,952	121,596	164,783	150,600	208,144
Paraffin wax	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	12,535	15,503
Asphalt	33,394	189,962	495,199	693,981	435,256	453,222
Burma—						
Paraffin wax	3,640	3,224	4,882	5,457	6,554	5,133
Formosa—						
Asphalt	—	5,118	12,760	4,931	9,395	6,933
Indonesia—						
Crude petroleum	3,125,706	4,341,725	6,839,804	7,226,632	4,373,664	7,298,643
Motor spirit	1,707,863	1,485,427	1,816,272	1,401,743	1,388,264	1,477,656
White spirit	91,181	76,267	56,972	70,250	6,975	—
Kerosine	499,623	419,683	916,146	380,543	487,694	484,569
Gas and diesel oils ..	1,431,737	1,295,022	1,585,532	1,156,930	1,077,915	1,159,883
do. do. (bunker oil)	164,763	129,185	121,054	78,088	85,878	104,131
Fuel oil	2,005,813	2,084,163	3,536,477	2,483,162	2,484,688	2,753,259
do. (bunker oil) ..	349,417	375,370	408,247	284,492	395,832	337,582
Lubricating oil	84,722	92,378	23,480	31,693	52,585	41,568
Paraffin wax	77,153	61,817	62,778	42,386	47,874	52,160
Asphalt	15	15	—	—	—	—
Iran (b)—						
Crude petroleum	9,772,028	14,190,363	19,117,782	23,974,019	<i>n.a.</i>	<i>n.a.</i>
Motor spirit	1,560,379	4,454,291	3,987,031	2,005,087	<i>n.a.</i>	<i>n.a.</i>
Kerosine	715,529	1,417,190	1,716,704	1,653,896	<i>n.a.</i>	<i>n.a.</i>
Gas oil	} 3,074,096	} 3,064,438	} 6,031,177	1,122,774	} <i>n.a.</i>	} <i>n.a.</i>
Diesel oil				1,703,659		
Fuel oil				5,381,847		
Iraq—						
Crude petroleum	31,643,663	29,169,832	19,938,000	33,255,000	39,169,282	44,490,282
Motor spirit	642	698	115	—	<i>n.a.</i>	<i>n.a.</i>
Kerosine	456	434	71	563	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Aviation spirit (foreign produce (bunkers) ..	45,844	36,509	45,048	49,701	58,153	94,662
Motor spirit	56	1	10,735	207,892	237,502	262,060
Kerosine	14	3	12	4	14,887	72,276
Gas oil	760	1	1	—	14,816	82,761
Fuel oil, etc. (bunkers)						
Domestic produce ..	170,744	227,919	136,919	118,383	108,645	192,612
Foreign produce	932,783	1,617,063	2,015,099	1,706,886	2,413,814	3,775,913
Lubricating oils	174	4,020	193	570	2,667	5,229
Paraffin wax	5,564	8,767	8,395	12,592	11,656	11,310
Asphalt and pitch ..	15,219	6,094	2,499	2,056	30,433	28,885
Lebanon—						
Fuel oils	1,642	—	—	—	—	—

(a) Bunkers on foreign ships only.

(b) Years ended March 20 following that stated.

EXPORTS OF PETROLUUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Netherlands New Guinea—						
Crude petroleum ..	477,954	357,632	326,486	262,782	241,106	244,579
Neutral Zone (a)—						
Crude petroleum ..	1,126,000	1,650,000	3,242,000	(b)4,000,000	(b)4,640,000	(b)5,605,000
Saudi Arabia—						
Crude petroleum ..	36,884,697	38,154,060	38,515,549	41,085,199	44,720,242	49,743,695
Syria—						
Diesel oil	5,044	—	—	—	—	n.a.
Fuel oil	2,721	—	34	36	—	n.a.
Natural asphalt ..	4,282	2,955	4,675	625	217	n.a.

(a) Neutral Zone of Kuwait and Saudi Arabia.

(b) Estimated.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS*

(Less Re-exports)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Crude petroleum ..	28,062,953	28,823,183	27,960,498	33,744,783	39,236,494	44,891,783
Aviation spirit (a) ..	256,796	337,000	334,192	293,946	452,990	263,556
Aviation turbine fuel ..	33,863	56,635	20,000	19,703	100,205	96,324
Motor spirit ..	1,492,997	1,568,954	1,967,228	1,933,155	2,242,266	2,127,753
Other spirit ..	116,182	158,682	275,385	123,755	118,514	26,902
Kerosine—Power ..	678,701	467,177	501,336	265,384	278,911	207,162
do. Other ..	387,099	296,865	490,284	517,706	766,092	444,936
Aviation jet fuel ..	467,851	608,167	478,713	328,223	235,908	75,326
Fuel oil (a) ..	2,305,769	3,070,979	3,892,485	4,819,310	5,217,358	7,345,151
Diesel oil ..	227,564	240,907	180,432	85,332	233,923	76,116
Gas oil ..	1,849,432	1,765,857	2,080,135	1,874,365	1,980,289	2,127,553
Lubricating oil ..	444,385	458,373	390,972	403,480	410,355	490,125
Mineral jelly ..	11,055	9,279	8,261	5,381	5,538	6,306
Paraffin wax ..	37,583	33,602	33,372	30,216	32,383	35,653
Other petroleum wax ..	7,604	8,327	6,985	6,949	54,605	60,334
Ozokerite ..	8	3	—	—	—	—
Petroleum coke ..	27,492	24,654	30,876	49,333	66,114	61,456
Asphalt and bitumen (d) ..	81,018	69,117	74,371	68,614	61,694	75,189
Channel Islands—						
Aviation spirit ..	3,131	3,902	4,448	4,876	3,977	4,503
Motor spirit ..	18,247	19,746	18,033	19,823	21,317	23,649
Other spirit (b) ..	68	71	68	69	65	657
Kerosine ..	1,816	2,460	2,102	4,378	4,906	7,223
Gas and fuel oil ..	32,826	41,776	40,918	55,796	68,485	93,220
Lubricating oil ..	1,242	1,273	1,067	1,446	1,493	1,406
Greases (b) ..	16	22	17	17	21	47
Gibraltar (e)—						
Motor spirit, fuel oil, etc. ..	5,000	5,000	5,000	5,000	5,000	5,000
Kerosine ..	269	299	288	300	250	220
Malta—						
Aviation spirit (a) ..	19,801	34,621	27,721	22,831	16,407	12,360
Motor spirit ..	21,572	18,174	18,251	16,646	18,258	18,674
Aviation turbine fuel (a) ..	5,926	5,161	4,002	809	43,435	37,005
Kerosine ..	35,988	57,202	62,287	75,073	23,069	27,624
Fuel oil (a) ..	31,316	32,082	38,080	33,575	63,673	39,902
Gas oil (a) ..	15,825	15,736	19,459	17,054	19,517	17,638
Lubricating oil ..	1,350	1,519	1,343	1,068	1,438	1,301
Gambia—						
Aviation spirit ..	(c) 1,270	477	669	(c) 87	39	—
Motor spirit ..	2,271	2,221	2,858	2,598	2,310	1,920
Kerosine ..	563	645	576	822	538	475
Aviation turbine fuel ..	—	108	—	16	(c) 76	(c) 32
Other fuel oils ..	—	66	307	512	(c) 3,484	—
Gas oil ..	1,759	1,757	1,764	1,031	2,060	1,446
Diesel oil ..	85	620	1,403	2,806	751	1,591
Lubricating oil ..	232	243	262	293	206	272
Asphalt and bitumen ..	256	4	—	243	295	70
Ghana—						
Aviation spirit (a) ..	3,197	3,565	6,253	5,617	4,146	5,838
Motor spirit ..	106,724	110,119	132,464	136,740	125,156	138,466
Kerosine ..	34,806	27,098	39,767	40,848	45,690	49,742
Fuel oil (a) ..	49,925	42,979	42,041	69,867	46,976	62,731
Gas oil (a) ..	50,087	66,925	85,258	103,906	112,938	165,427

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

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

(b) Jersey only.

(c) Excess of re-exports.

(d) Natural.

(e) Excluding imports for bunkers.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES (cont.)						
Ghana (cont.)—						
Diesel oil	57,735	24,890	29,822	3,514	29,376	7,274
Lubricating oil (b) ..	11,595	9,832	11,020	9,686	12,004	12,678
Greases	679	347	314	480	475	561
Asphalt and bitumen ..	17,847	13,355	17,641	8,859	13,910	16,027
Kenya—						
Aviation spirit (b) ..	11,351	17,581	13,514	16,107	10,774	20,450
Motor spirit (b) ..	121,169	118,340	100,263	113,100	109,227	110,711
Kerosine—Power ..	11,402	12,566	12,221	26,034	21,194	32,299
do. Other ..	21,181	23,699	26,885	37,858	22,197	31,579
Gas, diesel, fuel oils (b)	548,235	608,484	630,404	531,181	594,422	603,302
Lubricating oil (b) ..	12,557	8,279	8,906	13,034	1,952	9,127
Greases	549	621	659	647	355	649
Petroleum jelly and paraffin wax	181	425	(a) 75	209	215	312
Asphalt	10,627	14,372	13,607	9,832	17,726	12,783
Mauritius—						
Aviation spirit (b) ..	1,171	1,191	1,389	2,279	1,676	2,245
Motor spirit	16,682	25,802	24,275	24,680	28,426	27,559
Kerosine	3,004	4,525	3,548	3,590	3,034	4,518
Lubricating oils ..	1,283	1,424	1,444	1,586	1,436	1,779
Gas, diesel, fuel oils (b)	12,785	22,992	27,699	22,274	28,058	22,576
Grease	137	150	109	97	156	109
Asphalt and pitch ..	2,474	1,613	4,766	3,635	2,848	5,003
Nigeria—						
Aviation spirit	16,386	15,046	28,194	30,876	17,091	29,921
Motor spirit	135,044	166,237	161,126	160,041	193,437	194,669
White spirit	118	97	142	160	(a) 5	222
Aviation turbine fuel ..	2,583	(a) 44	4,303	4,145	7,835	6,825
Kerosine	52,212	70,049	62,768	69,531	96,825	96,326
Gas oil (b)	24,913	29,235	27,327	31,414	78,821	96,317
Diesel oil (b)	23,293	49,889	57,560	103,556	116,158	92,524
Fuel oil (b)	39,563	29,917	37,067	36,425	58,856	58,630
Lubricating oil ..	10,733	9,172	13,082	12,504	13,049	17,707
Greases	484	426	457	627	757	833
Petroleum jelly ..	114	131	213	413	230	185
Asphalt and bitumen ..	21,722	13,356	11,838	25,989	32,509	40,304
Rhodesia and Nyasaland—						
Aviation spirit	12,552	12,541	12,331	10,944	10,062	11,486
Motor spirit	188,216	215,328	221,074	240,589	239,523	237,895
Kerosine—Power ..	21,324	20,234	16,461	18,868	14,356	15,927
do. Other	17,274	21,260	20,085	22,013	22,677	24,680
Fuel oil	87,532	140,169	150,328	167,493	174,746	169,650
Lubricating oil ..	18,512	17,582	21,874	19,034	18,335	20,234
Other petroleum products	3,665	6,780	13,235	15,061	17,376	19,834
Greases (c)	2,243	1,915	2,456	1,705	2,063	2,050
Paraffin wax	743	1,090	1,435	1,060	1,210	1,637
Asphalt and bitumen ..	26,457	22,801	27,426	23,480	25,776	29,384
St. Helena—						
Motor spirit	206	252	123	252	173	260
Kerosine	78	95	65	125	46	104
Diesel oil	36	222	85	135	78	168
Lubricating oil ..	6	18	7	18	7	6
Seychelles—						
Motor spirit	228	396	208	263	244	378
Kerosine	222	210	265	269	271	349
Fuel oil	186	311	196	302	229	584
Sierra Leone—						
Aviation spirit (b) ..	695	911	(a) 132	718	200	455

(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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES (cont.)						
Sierra Leone (cont.)—						
Motor spirit	9,997	14,073	17,886	16,499	21,109	15,377
Kerosine	7,482	9,401	12,712	9,627	13,713	10,800
Gas oil (a)	5,771	4,857	3,987	5,025	15,194	7,069
Diesel oil (a)	466	20,082	81,330	76,077	81,450	122,733
Fuel oil (a)	7,186	45,439	237,855	151,617	164,863	159,929
Lubricating oil	980	1,423	1,274	1,529	1,279	1,878
Asphalt and bitumen	1,011	2,094	2,211	4,034	1,788	1,587
Tanganyika—						
Aviation spirit (a)	3,275	3,513	3,614	2,724	3,174	3,481
Motor spirit	53,318	65,514	75,019	72,204	66,926	80,479
Kerosine—Power	1,556	1,279	1,799	838	1,690	476
do. Other	23,150	19,814	29,129	24,591	28,661	29,265
Gas, diesel, fuel oils (a)	98,829	125,588	145,554	172,645	138,339	184,033
Lubricating oil	7,234	5,285	4,716	6,320	4,886	6,441
Greases	412	448	374	503	506	381
Petroleum jelly and paraffin wax	72	75	43	75	62	25
Asphalt	7,165	7,727	4,630	4,237	5,367	3,960
Uganda—						
Aviation spirit (a)	6,875	4,187	4,269	4,548	3,487	3,341
Motor spirit	54,547	54,997	55,057	55,535	55,805	57,820
Kerosine—Power	1,015	1,794	2,340	2,711	2,667	3,695
do. Other	18,054	21,007	19,422	19,316	19,790	19,620
Gas, diesel, fuel oils	29,021	30,536	37,815	46,142	38,612	38,586
Lubricating oil	4,110	3,590	3,245	3,745	3,648	3,671
Greases	288	404	295	339	422	419
Petroleum jelly and paraffin wax	52	43	51	64	70	85
Asphalt	1,914	1,346	3,647	4,046	2,891	977
Union of South Africa—						
Crude petroleum	1,007,895	1,038,216	1,138,813	1,381,367	1,375,984	1,368,412
Motor spirit (a)	1,031,523	1,116,556	1,029,563	1,128,765	1,110,949	1,124,744
Other spirit	15,072	16,387	16,097	19,102	15,494	14,203
White spirit	30,957	26,545	27,369	31,610	21,123	29,578
Kerosine—Power	327,043	332,542	315,195	295,483	241,076	240,295
do. Other	147,250	155,621	144,555	184,188	152,429	163,411
Gas oil	312,237	422,964	453,866	477,397	509,179	514,931
Diesel oil (a)	80,994	133,337	165,238	64,877	33,570	33,156
Fuel oil (a)	166,048	415,739	716,511	151,497	197,287	164,933
Lubricating oil	125,249	105,058	127,350	96,017	104,701	104,232
Transformer oil	4,790	4,602	4,815	5,374	5,805	3,769
Road oil	2,881	1,831	895	382	2,836	2,144
Other oils	3,411	4,120	3,328	3,027	3,509	17,832
Paraffin wax	20,727	19,264	20,847	15,051	15,296	15,949
Asphalt and bitumen	35,638	32,960	37,539	37,116	32,997	39,169
Petroleum jelly	3,191	3,291	3,122	2,943	2,981	4,537
Zanzibar—						
Aviation and motor spirit	4,174	4,303	4,235	4,043	3,780	n.a.
Kerosine, etc.	3,214	3,541	3,595	3,031	3,241	n.a.
Fuel oils	2,079	2,461	2,996	3,230	3,599	n.a.
Canada—						
Crude petroleum	12,382,567	15,210,002	r 15,986,482	14,862,686	16,469,806	17,937,090
Tops for refiners	14,536	21,807	—	r 231,621	—	—
Aviation spirit	345,613	327,639	372,086	262,621	314,011	193,585
Motor spirit	335,995	333,687	299,827	332,222	311,588	101,729
Kerosine, etc.	44,454	73,284	58,685	37,807	74,946	108,926
Lubricating oils	177,701	176,010	162,499	r 139,433	163,686	163,903

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

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES (cont.)						
Canada (cont.)—						
Diesel oil	318,794	263,196	r 249,317	229,228	222,234	368,456
Fuel oil	3,368,011	r 3,337,540	r 3,007,023	2,763,151	3,909,523	3,511,635
do. (a)	7,115	—	r 232	2,388	5,891	1,966
Other petroleum oils ..	7,088	7,525	r 7,211	r 4,374	3,740	3,992
Liquefied petroleum gas	99,207	91,442	96,983	r 36,275	7,245	12,052
Grease	8,352	8,136	7,860	6,960	7,415	7,371
Paraffin wax, etc. ..	19,164	19,316	19,405	19,921	21,723	18,614
Asphaltum oil, etc. ..	283	304	2,038	2,495	4,194	5,980
Asphalt	25,707	r 42,774	38,242	23,231	31,639	24,743
Petroleum coke	361,352	394,286	380,024	268,073	281,011	360,130
Other products	57,189	r 71,174	75,035	89,646	95,305	129,396
Natural gas (million cubic feet)	11,166	15,695	30,551	34,716	11,963	5,571
British Guiana—						
Aviation spirit (b) ..	3,098	1,225	1,195	1,859	1,809	4,156
Motor spirit	13,973	16,005	16,946	17,554	19,241	19,705
Kerosine	9,048	10,224	11,771	12,983	14,452	16,203
Gas, diesel and fuel oils	139,352	149,233	140,562	112,798	147,231	172,243
Lubricating oil	2,037	1,766	2,449	2,181	2,378	3,809
Paraffin wax	12	12	11	23	24	30
Petroleum jelly	16	67	38	53	71	73
Road oil	590	785	1,108	1,212	697	1,340
Asphalt and bitumen ..	401	250	295	1,060	327	436
Asphalt natural	263	347	137	558	486	1,065
British West Indies—						
Bahamas—						
Motor spirit	17,262	16,990	23,164	23,623	31,266	35,738
Kerosine	4,418	5,316	6,487	7,058	10,916	11,171
Fuel oils	22,104	23,329	24,629	26,029	42,521	41,246
Lubricating oil	484	612	808	540	928	964
Barbados—						
Crude petroleum	5,680	8,204	6,719	5,581	5,445	n.a.
Aviation and motor spirit	11,238	12,274	r 11,593	r 12,553	11,797	14,861
Kerosine	8,449	9,359	8,952	10,109	9,994	11,149
Gas oil and diesel oil	8,740	7,067	r 12,319	r 13,827	13,528	18,992
Fuel oil	—	—	—	—	—	—
Lubricating oil	758	672	709	812	1,165	559
Bermuda (b)—						
Aviation and motor spirits	56,308	77,397	88,560	80,806	119,539	93,905
Aviation turbine fuel	4,516	5,905	5,005	24,515	26,528	27,985
Kerosine	1,595	2,878	4,654	3,242	21,253	14,872
Diesel oil	14,640	18,537	19,157	22,305	31,229	n.a.
Fuel oil	21,808	10,227	25,232	10,808	9,304	18,453
Lubricating oil	777	1,205	1,662	1,770	1,300	901
Asphalt	1,338	640	1,600	865	1,990	1,884
Cayman Islands—						
Aviation and motor spirits	414	783	946	1,598	1,657	1,688
Kerosine	216	219	331	474	481	933
Diesel oil	47	188	180	297	396	1,059
Dominica—						
Motor spirit	841	888	1,071	1,028	1,485	1,255
Kerosine	446	489	470	466	723	648
Fuel oil and diesel oil	428	517	477	631	1,041	913
Lubricating oil	41	68	59	79	127	155
Road oil	152	67	31	115	968	149

(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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
<i>(cont.)</i>						
British West Indies (cont.)						
Grenada—						
Motor spirit	2,010	2,278	1,975	2,235	2,680	<i>n.a.</i>
Kerosine	1,005	1,021	961	1,371	1,236	<i>n.a.</i>
Fuel oil	794	956	1,014	1,284	1,016	<i>n.a.</i>
Lubricating oil	103	100	90	97	152	<i>n.a.</i>
Road oil	446	467	528	647	1,143	<i>n.a.</i>
Jamaica—						
Aviation spirit (b)	17,118	19,185	18,688	15,312	19,568	17,674
Motor spirit	40,810	49,737	55,959	60,884	69,657	68,493
Kerosine	17,243	20,155	22,301	25,937	29,366	37,260
Gas oil (b)	32,827	(a) 5,734	47,520	41,731	43,102	115,741
Diesel oil (b)	38,429	56,393	75,073	67,671	77,409	89,909
Fuel oil (b)	293,596	309,897	391,612	366,038	490,641	360,247
Lubricating oil	3,783	4,146	3,796	3,640	4,853	4,717
Grease	290	327	480	385	492	442
Petroleum jelly	111	147	159	207	195	224
Paraffin wax	29	22	16	16	20	23
Natural asphalt	7,037	7,684	2,774	3,027	4,886	3,571
Leeward Islands—						
Motor spirit	3,298	3,000	4,470	3,703	3,694	<i>n.a.</i>
Kerosine	2,674	1,542	2,481	3,050	3,390	<i>n.a.</i>
Gas oil	1,132	1,067	1,027	890	} 5,326	<i>n.a.</i>
Diesel oil	1,778	2,359	2,998	3,840		<i>n.a.</i>
Fuel oil	492	246	216	226	50	<i>n.a.</i>
Lubricating oil	561	199	395	359	731	<i>n.a.</i>
St. Lucia—						
Motor spirit	920	1,091	1,048	1,081	1,371	<i>n.a.</i>
Kerosine	500	866	531	580	729	<i>n.a.</i>
Fuel oil	1,228	5,051	1,946	2,057	1,823	<i>n.a.</i>
Lubricating oil	105	106	101	109	117	<i>n.a.</i>
Road oil	714	906	1,020	604	894	<i>n.a.</i>
St. Vincent—						
Aviation and motor spirits	1,077	1,205	1,250	1,568	1,977	<i>n.a.</i>
Kerosine	603	547	718	883	978	<i>n.a.</i>
Gas, diesel and fuel oils	271	457	384	600	634	<i>n.a.</i>
Lubricating oil	70	51	55	90	95	<i>n.a.</i>
Road oil	200	221	602	717	1,443	<i>n.a.</i>
Asphalt	1	1	3	2	10	<i>n.a.</i>
Trinidad and Tobago—						
Crude petroleum	2,481,671	2,561,513	2,556,239	3,602,473	4,394,648	5,642,917
Aviation and motor spirits	233	8	(a) 8	1,440	2,029	1
Kerosine	—	—	4,401	1,720	(a) 6	—
Gas oil	113,315	75,966	57,523	113,051	140,309	144,021
Fuel oil	3	3	(a) 305	—	22,278	6,681
Lubricating oil	4,168	4,398	8,853	4,732	6,161	7,000
Greases	370	320	292	(a) 336	330	110
Petroleum jelly	91	123	62	105	<i>n.a.</i>	365
Paraffin wax	14	5	8	104	29	21
Turks and Caicos Islands						
Aviation and motor spirit	59	88	82	109	174	157
Kerosine	102	123	101	118	155	187
Gas, diesel and fuel oils	77	39	76	180	752	804
Lubricating oil	3	4	—	3	4	9
British Honduras—						
Aviation spirit	383	(a) 484	224	(a) 209	277	326
Motor spirit	3,859	4,249	3,976	4,729	5,390	4,974

(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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES (cont.)						
British Honduras (cont.)—						
Kerosine	2,042	2,160	1,941	2,919	2,959	2,884
Diesel and fuel oils ..	3,926	3,417	2,989	4,463	4,536	4,791
Lubricating oil	427	525	396	326	465	396
Asphalt	491	188	489	966	379	809
Falkland Islands—						
Motor spirit	255	250	210	266	205	244
Kerosine	127	94	11	128	29	50
Gas and diesel oils ..	2,383	772	8,454	8,472	2,573	11,834
Fuel oil (c)	175,184	107,814	97,311	115,314	57,365	589,463
Lubricating oil	196	195	114	349	227	184
Aden Colony—						
Crude petroleum	4,265,197	4,585,746	4,416,767	3,691,645	4,139,454	4,205,582
Motor spirit	78	27,163	15,520	20,661	18,108	35,822
Kerosine	2,059	—	—	28,763	91,504	31,293
Gas and fuel oils (c) ..	1,148,439	753,662	557,336	1,381,438	1,445,233	1,745,475
Lubricating oil and greases	3,388	3,348	5,041	4,173	4,287	4,319
Aden Protectorate (d)—						
Motor spirit	407	6,084	11,753	8,455	6,162	4,406
Kerosine	1,348	4,629	5,123	6,441	9,849	6,963
Gas and fuel oils	28	66,912	4,332	7,860	4,632	2,193
Lubricating oil	64	165	176	207	173	170
Bahrain Islands (a)—						
Crude petroleum	8,397,900	8,057,300	7,295,000	7,341,000	7,011,000	7,943,000
British Borneo—						
Brunei—						
Motor spirit	2,420	2,657	4,485	4,176	2,197	672
Kerosine	798	768	1,139	837	1,270	1,653
Diesel oil	2,326	1,282	2,695	182	47	—
Fuel oil	537	95	—	6	—	7
Lubricating oil	2,171	271	2,884	1,345	1,294	928
Grease	483	11	52	38	23	24
North Borneo—						
Motor spirit	2,920	2,298	683	1,191	18,487	13,089
Kerosine	4,307	3,997	4,110	3,982	9,145	9,346
Gas, diesel and fuel oils	2,067	6,362	5,915	(b) 2,831	25,188	27,815
Lubricating oil	847	712	890	516	2,670	3,799
Asphalt and bitumen ..	1,148	n.a.	n.a.	n.a.	n.a.	n.a.
Sarawak—						
Crude petroleum	5,175,032	5,548,598	5,441,292	5,125,219	5,313,995	4,505,041
Aviation spirit	414	591	667	577	928	878
Motor spirit	5,589	8,126	9,179	8,911	11,116	11,601
Kerosine	7,060	7,536	7,697	8,142	8,640	9,493
Gas oil	4,275	7,658	6,619	8,226	10,466	12,798
Diesel oil	3,981	3,203	5,545	6,154	3,982	2,814
Fuel oil	531	618	595	718	3,612	4,255
Lubricating oil	1,887	1,398	1,608	1,746	2,187	2,264
Paraffin wax	8	11	4	8	3	14
Mineral jelly	26	53	35	46	37	31
Natural gas (million cubic feet)	2,800	2,779	2,545	2,480	2,540	2,693
Ceylon—						
Aviation spirit (c)	6,632	9,351	8,670	8,531	8,215	3,041
Motor spirit	125,467	109,289	177,113	141,613	151,838	154,445
Kerosine	92,146	99,377	110,155	122,594	134,477	144,174
Gas oil (c)	36,173	44,505	72,372	63,469	90,679	100,411
Diesel oil (c)	161,379	132,952	190,046	126,587	130,999	99,560

(a) British Protected State.

(b) Excess of re-exports.

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

(d) Exports from Aden Colony to the Protectorate.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
<i>(cont.)</i>						
Ceylon (cont.)—						
Fuel oil (a)	511,598	375,750	805,776	429,870	415,232	355,677
Lubricating oil	7,953	8,826	10,190	7,279	13,055	9,226
Other oils and greases ..	415	367	759	388	680	555
Asphalt (incl. natural) ..	4,341	17,533	4,347	8,763	24,560	18,102
Cyprus—						
Aviation spirit (a)	48,619	72,479	8,190	13,221	6,962	8,932
Motor spirit			50,218	54,334	53,864	59,430
Aviation turbine fuel	<i>n.a.</i>	<i>n.a.</i>	35,738	59,300	41,664	35,726
Kerosine, etc.	32,561	62,945	22,432	22,602	24,661	23,367
Fuel oils	74,304	106,572	159,016	141,702	159,932	175,181
Lubricating oil	3,160	3,007	3,158	2,642	3,044	2,575
Paraffin wax and petroleum jelly	106	126	(d) 164	(d) 184	(d) 193	(d) 234
Asphalt and bitumen	10,626	10,520	5,512	5,491	5,293	7,771
Hong Kong—						
Aviation spirit	9,647	15,400	11,899	19,003	19,772	11,666
Motor spirit	49,132	63,759	45,473	56,260	69,344	65,097
White spirit	2,856	4,124	3,468	3,844	5,152	5,438
Kerosine	64,565	86,770	75,754	79,082	103,071	136,061
Diesel oil and gas oil	118,973	160,929	178,254	176,854	180,325	194,218
Fuel oil	541,177	699,823	725,464	760,466	727,319	777,057
Lubricating oil	7,214	14,536	9,228	7,577	8,710	11,620
Greases	482	390	594	385	418	963
Petroleum jelly	284	97	68	157	89	267
Paraffin wax	1,772	955	1,174	887	1,406	1,168
Asphalt and bitumen	4,580	7,354	10,474	6,649	12,532	9,903
Asphalt (natural)	576	61	258	156	320	468
India—						
Crude petroleum	<i>b</i> 2,637,148	4,073,637	3,463,319	1,779,734	1,183,500	(c) 2,658,517
Aviation and motor spirits (a)	351,099	116,191	142,914	70,831	82,247	} (c) 85,472
Other spirit	7,572	—	1,112	139	113	
Kerosine	966,262	996,441	1,163,311	940,579	1,073,208	(c) 907,283
Diesel oil	384,159	285,072	<i>n.a.</i>	<i>n.a.</i>	261,000	(c) 276,310
Fuel oil (a)	183,241	27,261	22,080	32,978	32,330	(c) 71,785
Lubricating oil	157,701	194,575	290,160	161,106	198,339	(c) <i>n.a.</i>
Turpentine substitute	3,006	10,513	9,341	6,197	12,407	(c) 13,044
Other oils	99,611	83,430	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Greases	4,559	4,752	3,700	3,255	3,502	(c) <i>n.a.</i>
Petroleum jelly	<i>n.a.</i>	<i>n.a.</i>	1,619	2,208	1,962	(c) 1,857
Paraffin wax	2	28	5	3	6	(c) 7
Asphalt	404,134	128,403	33,281	14,248	6,126	(c) 11,553
Kuwait (a) (e)—						
Diesel oil	10,939	57,907	196,302	18,442	—	—
Fuel oil	259,422	490,426	1,251,685	64,057	—	—
Malaya—						
Crude petroleum	—	661,395	843,278	788,976	285,213	279,090
Aviation spirit	271,723	260,859	257,390	173,304	225,709	126,571
Motor spirit	1,238,961	1,240,431	1,129,833	993,531	1,021,451	1,048,410
White spirit	78,989	61,962	60,648	61,451	82,441	91,808
Aviation turbine fuel	<i>n.a.</i>	33,316	44,291	116,275	170,689	234,370
Kerosine—Power	54,028	73,983	73,669	74,645	33,595	42,335
do. Other	389,718	398,566	349,100	289,789	363,359	432,963
Gas oil	748,891	783,619	785,756	755,001	757,751	912,781
Diesel oil	743,543	705,802	660,700	715,539	599,986	669,809
Fuel oil	3,030,055	2,791,339	2,932,940	2,477,186	2,174,469	2,193,394
Lubricating oil	33,229	34,311	35,389	30,113	31,056	36,020
Paraffin wax	2,423	5,090	2,712	2,538	2,775	2,829
Petroleum jelly	684	788	727	742	733	1,271

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

(b) April to December only.

(c) Years ended March 31 following that stated.

(d) Paraffin wax only.

(e) British Protected State.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES (cont.)						
Malaya (cont.)—						
Grease	1,870	1,773	1,672	1,099	1,169	1,839
Asphalt and bitumen ..	48,912	176,937	139,689	49,053	45,892	53,422
Natural asphalt	16	—	20	197	—	20
Pakistan—						
Motor spirit (c)	34,464	23,491	19,428	17,536	62,800	n.a.
Other spirit (c)	33,895	3,087	5,959	546	1,659	n.a.
Kerosine (c)	146,771	124,678	97,910	76,894	152,872	n.a.
Diesel oil (c)	208,883	162,115	180,384	195,242	270,669	n.a.
Fuel oil (c)	402,161	164,895	189,112	121,913	470,426	n.a.
Lubricating oil .. (c)	34,573	46,756	30,617	30,406	57,763	n.a.
Other oils (c)	1,930	6,410	686	12,515	14,646	n.a.
Grease (c)	749	1,604	1,242	1,062	1,381	n.a.
Paraffin wax (c)	631	543	760	1,662	1,009	n.a.
Asphalt (c)	18,642	8,445	11,989	6,615	9,299	n.a.
Australia (b)—						
Crude petroleum ..	3,782,170	6,903,793	8,649,388	9,881,060	10,329,346	11,405,405
Aviation spirit (a) ..	137,029	152,917	103,964	84,839	86,634	62,793
Motor spirit	1,817,542	1,321,475	507,595	477,464	622,571	561,470
White spirit	48,514	58,135	53,030	55,258	56,456	49,108
Kerosine—Power ..	320,594	263,100	247,884	200,140	174,975	184,505
do. Other	224,849	206,989	166,511	167,829	159,970	136,485
Aviation turbine fuel ..	51,657	33,163	9,771	15,164	44,063	
Lubricating oil ..	172,751	166,976	173,255	158,980	188,885	198,343
Gas, diesel and fuel oils	1,505,222	622,952	147,878	104,877	52,995	75,102
Other oils	1,589	169,587	181,625	63,972	6,116	7,001
Petroleum jelly	1,648	1,491	1,593	2,089	2,001	1,951
Paraffin wax	6,530	4,909	6,338	8,069	7,345	7,638
Natural asphalt	18,170	1,818	1,578	2,141	1,768	2,610
Bitumen and pitch ..	7,757	5,344	645	1,083	768	978
Fiji—						
Aviation spirit (a) ..	10,659	11,885	16,120	19,138	13,647	12,681
Motor spirit	16,582	18,738	16,718	25,689	20,086	19,439
Kerosine	4,747	3,024	5,682	6,721	10,719	11,823
Diesel oil (a)	22,346	24,470	24,344	24,117	19,198	7,639
Fuel oil (a)	3,203	4,298	3,378	13,983	13,983	23,665
Lubricating oil	1,130	1,468	1,153	1,359	1,602	1,128
Greases	222	253	215	159	290	136
New Guinea (b)—						
Aviation and motor spirits	9,520	11,288	11,182	15,530	12,002	16,835
Kerosine	2,432	2,892	3,742	4,069	2,430	2,621
Fuel oils	13,289	10,399	10,306	15,076	15,198	14,718
Lubricating oil	756	n.a.	908	774	1,020	1,029
New Hebrides—						
Aviation and motor spirits	1,600	1,624	2,029	2,411	3,032	2,598
Kerosine	745	689	1,077	964	996	915
Other oils	1,717	1,309	1,706	3,013	3,596	3,781
New Zealand—						
Aviation spirit (a) ..	32,317	28,769	27,760	33,697	27,314	34,612
Motor spirit	712,131	766,498	821,178	762,903	786,046	868,626
White spirit	8,612	10,972	9,073	11,897	10,687	12,284
Aviation turbine fuel ..	7,438	7,100	7,466	1,718	12,559	23,238
Kerosine—Power ..	10,561	9,881	6,992	4,317	6,839	6,884
do. Other	10,686	15,639	24,578	32,135	29,867	32,876
Gas oil	123,466	206,842	231,350	198,792	198,668	272,163
Diesel oil (a)	160,028	168,465	152,250	192,173	143,204	160,919
Fuel oil (a)	310,652	222,048	311,850	255,381	249,758	230,533

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

(b) Years ended June 30 of that stated.

(c) Year ended March 31, 1956.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
<i>(cont.)</i>						
New Zealand <i>(cont.)</i> —						
Lubricating oil (b) ..	30,892	39,933	33,410	33,078	34,006	44,286
Transformer oil ..	1,405	1,145	2,139	1,312	526	1,586
Petroleum jelly ..	132	949	349	200	215	244
Paraffin wax ..	1,016	657	1,979	1,468	1,520	1,283
Ozokerite ..	26	7	3	3	3	3
Asphalt and bitumen ..	38,757	53,903	58,099	33,333	50,768	53,180
do. natural ..	623	1,104	791	188	462	709
Papua (d)—						
Aviation and motor spirits ..	6,088	7,412	10,652	7,126	10,144	12,673
Kerosine ..	702	692	377	202	1,572	2,145
Fuel oil ..	10,365	8,867	10,572	7,659	7,293	7,426
Lubricating oil ..	525	n.a.	715	578	626	389
Solomon Islands (c)—						
Motor spirit ..	403	636	947	651	1,049	972
Kerosine ..	246	232	245	446	594	527
Lubricating oil ..	61	27	66	180	127	278
Western Samoa—						
Motor spirit ..	2,403	2,145	2,883	2,254	2,556	3,154
Kerosine ..	516	564	606	635	712	1,038
Fuel oil ..	909	980	1,297	1,251	999	956
Lubricating oil ..	89	23	21	50	90	104
Irish Republic—						
Crude petroleum ..	—	—	—	—	824,578	1,524,401
Aviation spirit (b) ..	4,850	6,442	8,552	469	(e) 2,710	(e) 466
Motor spirit ..	273,006	285,977	247,844	264,694	165,114	13,194
White spirit ..	2,965	3,143	3,591	2,916	3,368	3,381
Kerosine—Power ..	45,720	45,146	38,656	31,760	15,509	53,933
do. Other ..	71,311	65,998	64,978	81,684	80,408	31,572
Diesel oil, etc. (b) ..	259,206	747,091	193,914	217,859	129,102	4,752
Fuel oil (b) ..	329,929						410,894	359,493	218,908	137,992
Lubricating oil ..	20,026	21,255	15,220	18,400	20,523	20,261
Paraffin wax (a) ..	2,215	1,841	1,919	1,368	1,753	2,396
Asphalt and bitumen ..	1,550	495	100	376	61	—
OTHER COUNTRIES						
Austria—						
Motor spirit ..	95,649	101,392	145,862	207,803	247,919	291,571
White spirit ..	n.a.	n.a.	n.a.	n.a.	6,555	6,182
Gas oil ..	28,861	11,632	1,471	6,649	26,667	71,464
Fuel oil ..	174,896	110,345	195,425	469,285	530,350	687,614
Lubricating oil, etc. ..	21,854	26,504	25,269	28,131	31,556	34,099
Petroleum jelly ..	253	183	179	244	239	212
Paraffin wax ..	3,549	3,444	3,840	4,005	4,662	4,503
Ozokerite and ceresin ..	628	729	688	649	(f) 588	(f) 602
Natural asphalt ..	649	697	2,158	1,277	906	826
Petroleum coke ..	24,758	34,658	21,734	18,316	8,095	16,107
Bitumen, etc. ..	20,612	19,276	17,591	38,633	53,286	53,879
Belgium-Luxemburg						
E.U.—						
Crude petroleum ..	4,637,230	5,250,512	5,388,051	6,419,055	6,610,844	6,706,495
Motor spirit, etc. ..	348,089	335,266	382,413	407,178	315,204	374,096
Kerosine ..	28,866	32,276	28,409	32,780	27,940	23,731

(a) Including other mineral jellies and waxes.

(e) Excess of re-exports.

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

(f) Including montan wax.

(c) Years ended March 31 following that stated.

(d) Years ended June 30 of that stated.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)—</i>						
Belgium-Luxemburg						
<i>E.U. (cont.)—</i>						
Gas oil	680,696	814,319	992,788	866,041	695,353	792,107
Fuel oil	1,023,550	1,341,756	1,350,838	1,348,026	1,465,770	1,640,173
Lubricating oil	176,883	185,898	181,488	161,791	178,291	155,437
Other heavy oils	4,739	4,470	3,782	4,596	10,998	31,298
Petroleum jelly	1,130	1,510	1,320	1,040	1,435	1,772
Paraffin wax	4,713	5,540	5,308	4,748	4,730	5,851
Ozokerite and ceresin (a)	342	470	409	482	401	250
Petroleum coke	446	107,712	55,969	63,834	34,362	18,940
Natural asphalt	7,067	6,820	4,900	3,829	2,758	2,492
Pitch	5,208	5,514	3,308	34,106	59,947	23,445
Denmark—						
Crude petroleum	29,999	18,885	29,696	30,005	36,885	5,350
Motor spirit, etc.	681,734	722,169	769,685	888,316	949,271	981,766
White spirit	9,901	12,142	12,292	11,765	13,656	14,188
Kerosine	121,171	107,987	118,068	112,274	162,696	252,375
Gas oil	412,573	524,853	630,789	745,959	808,221	892,195
Diesel oil	295,697	329,891	382,211	473,358	551,304	677,414
Fuel oil	1,523,739	1,826,031	1,790,068	1,926,311	1,830,169	2,105,701
Lubricating oil	50,527	46,148	49,292	53,215	71,047	64,174
Grease	708	837	827	924	1,348	1,134
Petroleum jelly	443	425	305	353	485	463
Ozokerite, etc.	526	736	730	737	1,028	884
Paraffin wax	3,728	4,212	3,542	4,756	4,831	5,036
Natural asphalt	396	548	838	734	1,692	1,358
Other asphalt	66,441	67,117	48,733	62,169	67,685	69,249
Faroe Islands—						
Motor spirit	1,325	1,530	1,684	1,887	2,002	1,347
Kerosine	1,922	1,652	1,148	2,362	2,440	733
Fuel oils	22,694	28,071	24,390	31,226	25,338	14,383
Lubricating oil, etc.	396	427	409	434	415	468
Finland—						
Crude Petroleum	—	—	212,575	870,556	1,072,737	1,118,972
Motor spirit	353,150	346,611	340,594	112,513	21,434	44,914
White spirit	2,827	5,636	3,293	3,660	3,650	3,585
Kerosine	18,117	22,140	17,949	20,842	17,415	29,954
do. Power	52,480	49,164	37,357	15,948	5,561	1,852
Fuel oil	642,299	893,778	1,208,295	876,412	720,281	1,418,626
Lubricating oil	22,842	26,524	28,281	20,740	26,493	36,069
Petroleum jelly	212	215	184	234	405	381
Paraffin wax	2,320	2,584	1,851	1,856	3,071	4,184
Asphalt, etc.	51,009	39,813	32,951	31,396	26,654	8,219
France—						
Crude petroleum	24,422,109	24,591,855	23,703,814	27,974,654	28,709,907	30,531,645
Aviation spirit	80,762	85,300	81,345	123,724	134,745	131,706
Motor spirit	330,832	348,660	472,170	520,106	475,812	679,668
Kerosine	8,481	11,049	36,279	13,708	3,659	5,836
Lubricating oil	36,106	65,757	32,767	13,439	14,833	14,717
Fuel oil	260,073	354,320	880,551	486,411	921,860	1,229,110
Gas oil	1,569	70,887	748,269	332,551	230,421	247,630
Petroleum coke	72,295	72,241	70,732	68,961	60,075	92,099
Paraffin wax	1,290	3,220	5,409	2,077	2,492	2,911
Ozokerite and ceresin	4,727	4,643	5,809	4,634	4,329	5,097
Petroleum jelly	131	812	936	691	534	755
Natural asphalt and bitumen	2,799	2,981	3,588	3,642	2,267	1,635
Bitumen	2,282	359	568	314	136	629

(a) Including montan wax.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (Federal)—						
Crude petroleum	6,998,999	7,872,407	8,029,544	10,638,066	16,543,067	22,692,143
Aviation and motor spirits (b)	211,046	456,116	420,586	424,263	416,891	577,007
Kerosine (a) (b)	34,069	29,521	33,717	114,937	227,896	233,473
Gas and diesel oil (b)	734,398	998,725	1,049,791	801,774	846,537	880,516
Fuel oil (b)	1,603,757	3,175,930	3,842,671	4,766,253	3,587,682	4,375,587
Lubricating oil, etc.	107,646	116,914	128,955	107,138	143,111	149,286
Petroleum jelly	1,228	1,379	1,664	1,446	1,508	1,839
Paraffin wax	4,878	4,120	5,084	10,272	13,047	12,827
Ozokerite, etc.	1,131	482	240	500	982	725
Natural asphalt and bitumen	6,544	8,475	7,533	9,179	10,613	10,946
Bitumen	24,983	53,579	60,829	89,511	148,460	234,816
Germany (East)—						
Crude petroleum	638,000	785,000	981,000	1,109,000	1,534,000	1,910,000
Greece—						
Crude petroleum	—	—	—	95,452	1,539,442	1,631,356
Aviation spirit	86,356	95,254	73,144	111,601	17,460	n.a.
Motor spirit	212,323	165,729	160,663	161,725	19,936	13,763
Kerosine	93,598	102,837	103,568	116,869	16,411	3,879
Fuel oil and diesel oil	1,076,542	1,130,219	1,236,089	1,293,250	389,937	605,065
Lubricating oil, etc.	18,752	16,320	16,881	18,297	20,626	n.a.
Petroleum jelly	90	81	108	124	99	n.a.
Paraffin wax	469	326	204	239	175	n.a.
Asphalt and bitumen	20,828	10,251	17,471	21,884	4,688	n.a.
Hungary—						
Crude petroleum	228,591	320,138	1,016,000	1,125,493	1,236,387	1,432,558
Motor spirit	10,823	35,793	27,901	9,894	4,907	10,903
Kerosine	14,353	2,779	435	—	—	—
Gas oil	20,648	21,777	40,648	—	3,937	19,716
Fuel oil	58,073	111,940	144,167	56,158	58,295	68,720
Iceland—						
Aviation spirit	25,439	19,057	14,623	12,299	13,175	14,560
Motor spirit	30,342	32,450	47,675	40,225	45,882	40,633
White spirit	368	328	186	549	337	464
Kerosine	1,917	1,909	1,559	3,602	18,083	8,462
Gas oil and fuel oil	201,701	229,185	242,181	276,927	308,936	308,359
Lubricating oil	3,617	4,076	3,813	4,539	4,044	4,406
Greases	170	150	114	174	140	145
Paraffin wax	26	67	58	62	143	132
Petroleum jelly	—	10	17	5	2	9
Asphalt	108	789	547	352	560	1,215
Italy—						
Crude petroleum	16,601,955	17,798,434	19,595,986	22,207,338	24,402,201	28,327,291
Aviation and motor spirits	74,931	31,159	26,242	37,885	31,701	91,309
Kerosine	26	134	59	1,396	225	206
Gas oil	12,428	23,486	37,643	30,244	3,612	3,118
Fuel oil	441,078	640,679	674,351	235,303	598,060	1,472,666
Lubricating oil	52,886	44,529	46,322	40,498	44,277	78,635
Petroleum jelly	1,055	1,862	1,152	1,320	1,305	1,573
Paraffin wax	14,476	15,634	10,586	15,249	14,511	16,664
Pitch	93	103	177	181	282	5,999
Petroleum coke	43,099	52,992	65,714	41,712	54,430	100,440
Ozokerite and ceresin	605	308	307	128	601	485
Natural asphalt and bitumen	1,256	1,710	1,942	1,539	1,772	1,919
Netherlands—						
Crude petroleum	11,457,352	12,727,238	13,324,031	13,839,859	12,477,736	16,227,967
Motor spirit, etc.	169,317	193,553	191,110	151,924	118,304	128,812
Kerosine	161,073	167,681	156,973	199,433	193,684	180,412

(a) Including aviation turbine fuel.

(b) Figures for 1955-1959 include imports for bunkering foreign ships.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Netherlands (cont.)—						
Gas oil	622,383	1,048,680	1,033,460	894,431	1,108,850	1,286,182
Fuel oil	1,426,473	1,693,543	1,359,393	2,892,833	3,453,114	3,329,216
Lubricating oil	201,653	166,273	164,784	158,649	160,690	154,204
Petroleum jelly	2,426	3,168	3,515	2,787	2,855	2,711
Paraffin wax	40,176	44,005	18,424	22,601	28,301	29,839
Ozokerite and ceresin (a)	199	169	168	83	167	178
Pitch	9,041	14,231	14,310	11,919	20,184	24,246
Petroleum coke	—	18,918	9,353	14,767	11,662	16,785
Natural asphalt	1,020	1,169	1,276	1,147	985	1,303
Norway—						
Crude petroleum	94,914	78,113	113,661	83,120	105,201	216,677
Aviation spirit	17,726	20,605	24,398	23,016	29,283	22,593
Motor spirit	313,606	310,921	326,496	354,193	377,118	428,617
White spirit	11,701	11,027	13,697	12,972	13,943	14,623
Kerosine	49,395	61,915	65,980	83,029	75,726	86,509
Aviation turbine fuel	48,290	53,812	76,856	80,548	78,718	97,135
Diesel oil	386,479	408,412	399,102	395,623	428,071	329,868
Gas oil	545,310	634,677	523,540	675,052	710,308	877,292
Fuel oil	1,307,186	1,376,464	1,353,605	1,263,730	1,314,221	1,487,887
Lubricating oil	28,652	33,857	34,029	30,725	34,712	35,811
Paraffin wax	2,175	2,228	2,042	1,854	2,034	2,306
Greases	(c) 1,491	(c) 1,878	(c) 2,067	(c) 1,828	1,358	1,670
Pitch	8,368	18,418	17,902	23,292	6,483	10,122
Petroleum coke	44,629	56,230	61,676	68,024	85,856	92,878
Asphalt, etc.	23,802	19,380	15,354	34,722	18,219	15,947
Poland—						
Crude petroleum	536,300	528,500	620,000	591,000	682,000	703,000
Portugal—						
Crude petroleum	896,108	960,565	1,090,826	1,133,554	1,242,219	1,280,678
Motor spirit	38,954	33,577	30,656	12,839	12,599	18,882
do. (b)	2,298	2,959	3,370	5,051	4,806	n.a.
Kerosine	54,191	54,446	54,658	50,261	38,737	32,520
Aviation turbine fuel	—	—	30	118	49	—
Gas oil and diesel oil	141,002	118,325	130,370	141,455	145,366	295,511
Fuel oil	118,363	110,624	144,865	137,653	115,522	210,332
Gas, diesel, fuel oils (b)	160,115	164,950	127,979	164,340	203,717	n.a.
Lubricating oil	r 19,610	r 24,598	r 25,591	r 24,188	27,284	30,467
do. (b)	1,842	1,951	1,800	2,119	2,547	n.a.
Petroleum jelly	129	134	156	99	130	113
Paraffin wax	2,324	2,233	2,596	2,137	2,245	2,889
Ozokerite and ceresin	73	130	125	98	99	106
Bitumen	33	41	292	91	118	n.a.
Natural asphalt	16,067	14,293	12,564	13,607	15,429	11,561
Spain—						
Crude petroleum, heavy	7,657	42,893	—	—	11	n.a.
do. light	2,100,810	2,159,004	3,226,419	3,831,548	4,020,534	n.a.
Motor spirit	187,280	205,361	248,237	213,312	204,436	n.a.
Kerosine	80,786	77,008	69,913	32,472	53,713	n.a.
Diesel oil	289,869	341,790	167,810	97,958	120,720	n.a.
Lubricating oil	67,770	62,016	54,974	80,912	84,920	n.a.
Fuel oil	295,503	425,428	518,130	410,050	277,360	n.a.
Petroleum jelly	115	473	402	893	295	n.a.
Paraffin wax	2,377	1,098	584	2,247	568	n.a.
Asphalt	82,453	118,368	124,688	68,961	90,327	n.a.
Sweden—						
Crude petroleum	1,859,062	1,783,576	1,962,277	r 2,129,415	2,335,773	2,604,355
Motor spirit, etc.	910,391	1,079,578	1,190,000	r 1,258,662	1,251,949	1,505,201
White spirit	39,911	41,439	38,001	46,001	43,832	56,021
Kerosine	325,302	287,157	259,900	306,791	307,627	317,021
Fuel oil and gas oil	4,730,000	6,316,794	5,696,037	6,590,677	6,651,825	8,406,037
Lubricating oil and grease	84,402	100,813	96,152	92,237	101,633	115,087

(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	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Sweden (cont.)—						
Petroleum jelly ..	677	817	662	671	650	764
Paraffin wax ..	6,009	6,399	6,232	5,827	6,079	7,118
Ozokerite, ceresin, etc.	1,544	1,597	1,936	1,869	1,233	1,137
Asphalt ..	2,748	3,472	3,261	3,957	1,337	882
Pitch ..	15,175	17,551	8,665	7,227	6,435	7,282
Petroleum coke ..	7,322	12,596	8,868	6,893	6,188	4,698
Switzerland—						
Motor spirit ..	532,434	616,090	645,842	745,885	834,327	974,070
Kerosine ..	39,927	40,212	60,208	56,448	63,167	15,425
Gas and diesel oils ..	137,255	178,289	173,417	195,468	221,536	369,415
Fuel oil ..	1,140,950	1,621,302	1,618,192	1,897,803	1,885,866	2,318,463
Lubricating oil and grease ..	43,690	49,856	53,453	46,091	51,739	57,858
Petroleum jelly ..	1,180	1,093	1,403	759	1,086	702
Paraffin wax and ceresin	3,724	4,030	4,391	3,310	4,379	4,998
Asphalt and bitumen ..	527	1,057	553	962	1,172	96,174
U.S.S.R.—						
Crude petroleum ..	565,700	1,486,000	1,310,400	1,061,500	1,066,000	1,147,400
Motor spirit ..	1,956,500	1,989,800	1,991,000	2,065,300	2,196,700	2,139,900
Kerosine ..	540,300	464,700	289,000	347,200	352,100	300,400
Diesel oil ..	641,500	680,500	293,900	442,100	352,900	336,700
Fuel oil ..	392,000	377,800	56,200	44,300	50,300	47,900
Lubricating oil and grease ..	107,500	88,800	86,100	97,300	126,500	120,800
Paraffin wax ..	30,100	27,300	29,800	26,600	28,900	32,200
Bitumen ..	71,600	103,800	138,300	138,500	175,500	199,400
Yugoslavia—						
Crude petroleum ..	475,396	572,216	638,804	619,135	609,314	428,107
Aviation spirit ..	19,506	20,022	17,594	23,676	30,508	23,625
Motor spirit ..	14,525	—	258	609	829	707
Kerosine ..	—	—	—	—	—	6,831
Aviation turbine fuel ..	—	—	14	—	—	5
Fuel oils ..	—	2,323	—	205	58,576	126,214
Lubricating oil ..	4,896	5,904	6,641	7,904	7,843	9,718
Greases ..	113	157	203	202	245	321
Paraffin wax ..	1,694	1,239	499	523	939	1,646
Petroleum jelly ..	501	191	300	278	748	524
Ozokerite and ceresin ..	269	202	70	112	134	184
Petroleum coke ..	3,149	3,504	2,972	7,342	6,698	2,046
Pitch ..	—	1	9	4,910	5,320	768
Algeria—						
Aviation spirit ..	17,550	36,564	64,404	16,528	16,272	5,734
Motor spirit ..	303,388	343,428	409,582	266,761	290,883	311,926
White spirit ..	1,024	1,505	1,870	1,902	2,315	3,307
Kerosine ..	92,718	91,255	90,580	82,117	87,588	93,976
Gas oil ..	255,144	240,762	270,422	306,718	355,940	373,813
Fuel oil and diesel oil ..	317,818	246,360	261,726	296,897	432,862	553,828
Lubricating oil ..	27,250	29,673	32,038	27,378	32,719	29,046
Bitumen, etc. ..	52,078	47,326	59,324	67,501	81,862	88,048
Paraffin wax ..	410	461	422	601	580	607
Petroleum jelly ..	46	28	39	12	52	—
Ozokerite and ceresin ..	1	13	12	17	11	12
Natural asphalt, etc. ..	343	33	19	37	4,598	1,215
Mastic asphalt ..	4,291	3,425	4,146	3,968	3,495	4,877
Angola—						
Crude petroleum ..	—	—	—	—	11,628	116,192
Motor spirit ..	42,380	44,253	51,707	29,387	28,162	23,252
Kerosine ..	6,615	8,549	8,626	9,732	8,867	10,046
Gas oil and fuel oil ..	46,197	75,511	85,397	76,054	78,702	58,626
Lubricating oil ..	4,313	6,042	6,985	6,744	6,458	7,510

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Angola (cont.)—						
Paraffin wax	30	15	16	13	23	19
Petroleum jelly	24	25	32	25	20	35
Cameroun—						
Motor spirit, etc.	51,906	45,300	49,973	53,300	55,405	53,446
Kerosine	12,765	13,542	14,468	16,097	15,191	16,925
Gas and fuel oil	18,135	21,132	22,447	25,766	25,036	23,115
Lubricating oil	3,675	2,999	2,969	3,694	4,303	2,695
Canary Islands—						
Crude petroleum	664,752	995,774	2,184,795	2,763,827	3,080,585	<i>n.a.</i>
Motor spirit	2,108	1,989	10,441	9,903	10,018	<i>n.a.</i>
Diesel (b)	54,800	168,475	227,617	38,339	97,542	<i>n.a.</i>
Fuel oil (b)	10,105	—	222,854	3,996	—	<i>n.a.</i>
Cape Verde Islands—						
Motor spirit	473	536	361	515	455	562
Kerosine	650	864	711	1,155	1,268	1,472
Fuel oil (b)	469,246	411,413	550,484	456,329	476,416	328,451
Ceuta—						
Motor spirit	14,787	6,942	21,296	8,849	7,859	<i>n.a.</i>
Kerosine	1,927	656	1,966	457	3,112	<i>n.a.</i>
Diesel (b)	109,758	230,183	279,256	136,313	136,662	<i>n.a.</i>
Fuel oil (b)	564,745	330,885	447,080	372,735	384,079	<i>n.a.</i>
Lubricating oil	2,609	2,120	2,124	2,188	2,797	<i>n.a.</i>
Congo Republic—						
Motor spirit, etc.	207,688	201,171	218,626	212,832	187,279	<i>n.a.</i>
White spirit	387	584	666	569	373	<i>n.a.</i>
Kerosine	27,214	40,684	32,766	38,266	41,772	<i>n.a.</i>
Fuel oil, etc.	138,342	157,904	171,553	189,917	183,800	<i>n.a.</i>
Lubricating oil and greases	21,239	20,944	19,985	13,603	16,803	<i>n.a.</i>
Petroleum jelly	49	101	94	64	69	<i>n.a.</i>
Paraffin wax	188	70	65	104	118	<i>n.a.</i>
Asphalt	4,415	2,663	1,111	995	1,664	<i>n.a.</i>
Dahomey—						
Aviation spirit	(a)	(a)	(a)	120	197	660
Motor spirit				18,785	15,299	20,728
Kerosine				12,426	10,835	15,250
Gas oil				8,877	7,241	14,335
Fuel oils				99	106	550
Lubricating oil			1,294	1,307	1,060	
Egypt—						
Crude petroleum	996,524	891,377	1,127,947	1,569,742	1,514,893	2,044,509
Motor spirit	45,601	28,291	34,703	16,748	20,769	12,941
White spirit	920	585	761	2,116	43	—
Kerosine	365,056	383,142	259,259	459,822	369,084	415,291
Fuel oil	676,428	602,041	361,303	259,765	426,664	378,437
Gas oil	38,316	83,528	73,619	84,333	110,224	183,625
Diesel oil	35,360	50,605	44,963	51,694	42,659	35,798
Lubricating oil	33,631	47,757	37,492	53,628	47,170	39,935
Petroleum jelly	611	601	461	889	568	200
Paraffin wax	1,055	1,074	1,844	2,048	1,102	1,992
Ozokerite and ceresin	87	59	95	75	212	112
Asphalt and bitumen	712	188	76	830	819	602
Equatorial African Community—						
Aviation spirit	17,959	23,504	14,102	24,357	24,346	29,008
Motor spirit	36,237	45,195	46,712	43,522	47,234	49,538
Kerosine	10,111	11,639	11,727	12,930	15,180	16,283
Gas oil	17,014	31,494	36,999	49,757	53,499	72,698
Fuel oil	5,418	4,990	9,918	7,812	8,671	4,540
Lubricating oil, etc.	5,542	4,906	6,058	6,437	5,998	6,616

(a) See under French West Africa.

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

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Ethiopia (b)—						
Aviation spirit	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	3,799	7,372	6,473
Motor spirit	45,456	54,338	62,115	72,604	85,584	75,495
Kerosine	3,422	4,213	4,108	4,064	3,572	3,903
Gas and fuel oils	8,798	6,892	22,573	15,937	14,273	22,481
Lubricating oil and grease	7,047	8,882	5,689	5,194	7,515	5,686
French Somaliland—						
Motor spirit	2,246	5,019	2,397	2,232	2,290	2,176
Kerosine	876	167	794	676	658	689
Fuel oil, etc.	5,716	3,415	3,418	4,591	3,731	4,682
Lubricating oil	253	246	268	261	261	295
French West Africa—						
Aviation spirit	19,324	31,891	15,440	} (d)	(d)	(d)
Motor spirit	138,799	153,931	185,569			
Kerosine	53,997	61,685	71,248			
Gas oil	55,278	64,798	74,014			
Fuel oils	86,613	95,498	90,430			
Lubricating oil	16,086	20,810	13,051			
Ivory Coast—						
Aviation spirit	} (c)	(c)	(c)	518	8,194	3,745
Motor spirit				83,950	86,943	59,426
Kerosine				28,824	33,570	26,047
Gas oil				24,825	29,040	29,573
Fuel oils				19,753	23,040	11,998
Lubricating oil				5,080	6,195	5,907
Liberia—						
Motor spirit	10,796	7,877	18,560	20,873	17,149	19,996
Kerosine	3,461	2,203	4,306	2,600	12,734	6,394
Diesel oil, etc.	5,577	6,947	6,590	22,810	17,767	27,130
Lubricating oil	759	1,076	1,478	1,344	1,040	1,461
Malagasy Republic—						
Aviation spirit	5,641	6,189	8,269	8,044	5,245	5,219
Motor spirit	47,662	49,777	47,141	50,114	48,226	51,522
Kerosine	11,013	15,471	12,768	16,730	15,299	17,236
Gas oil	26,614	29,188	33,575	39,415	43,102	41,495
Fuel oils	2,635	787	203	79	806	656
Lubricating oil	3,886	5,158	5,436	4,764	5,009	5,575
Road oil, etc.	7,720	8,741	12,485	3,639	3,927	4,104
Paraffin wax	162	79	178	80	25	22
Petroleum jelly	11	7	10	14	12	17
Asphalt and bitumen	94	218	296	37	69	107
Melilla—						
Motor spirit	3,825	4,081	6,833	3,904	3,790	<i>n.a.</i>
Kerosine	2,605	2,473	3,111	1,153	1,216	<i>n.a.</i>
Diesel oil	9,511	9,472	16,547	9,400	9,472	<i>n.a.</i>
Fuel oil	—	9,405	26,058	5,119	5,127	<i>n.a.</i>
Lubricating oil	839	878	1,700	423	809	<i>n.a.</i>
Paraffin wax	31	23	41	52	82	<i>n.a.</i>
Morocco—						
Crude petroleum	—	1,966	26,488	25,542	74,014	88,228
Aviation spirit	26,971	12,625	(a) 16,301	16,238	12,069	10,488
Motor spirit	339,533	298,418	(a) 202,974	197,922	181,905	171,535
White spirit	2,356	1,300	(a) 1,693	1,156	1,648	1,581
Kerosine	83,051	48,523	(a) 36,742	38,094	41,222	46,618
Gas oil	119,296	121,082	(a) 107,975	124,433	131,870	165,749
Fuel oil	172,485	157,684	(a) 157,443	171,789	178,981	209,203
Lubricating oil, etc.	19,482	15,550	(a) 12,038	16,024	14,761	18,403
Paraffin wax	4,624	4,496	(a) 4,321	4,455	5,637	5,267
Asphalt, bitumen, etc.	37,714	26,499	(a) 23,404	17,994	19,614	23,428

(a) Morocco (Southern) only.

(b) Years ended September 10.

(c) See under French West Africa.

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

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Mozambique—						
Motor spirit	30,005	31,332	32,021	32,335	34,929	39,349
Kerosine	14,498	16,863	17,371	18,429	19,104	19,131
Fuel oil	38,019	46,371	54,131	66,138	66,720	81,933
Lubricating oil	4,348	5,210	5,819	6,028	6,656	7,175
Paraffin wax	38	52	47	40	38	69
Petroleum jelly	28	68	24	31	27	56
Asphalt and bitumen (d)	3,176	3,893	5,242	8,939	6,025	4,716
Niger—						
Aviation spirit				2,129	673	n.a.
Motor spirit				3,553	3,291	n.a.
Kerosine	(c)	(c)	(c)	1,115	974	n.a.
Gas oil				1,125	1,460	n.a.
Fuel oils				30	40	n.a.
Lubricating oil				433	89	n.a.
Reunion—						
Motor spirit	8,889	10,855	11,481	13,900	13,561	15,139
Kerosine	1,829	1,388	2,158	1,748	2,205	2,243
Fuel oil, etc.	2,311	4,282	5,264	3,751	7,098	6,577
Lubricating oil	940	658	771	735	743	1,092
S. Tome and Principe—						
Motor spirit	1,201	1,009	735	1,195	1,101	1,007
Kerosine	453	671	589	365	432	n.a.
Fuel oil	339	727	599	959	681	831
Senegal—						
Aviation spirit				15,307	10,654	8,779
Motor spirit				75,143	77,554	72,966
Kerosine	(c)	(c)	(c)	15,128	16,172	13,668
Gas oil				28,447	35,578	15,845
Fuel oils				69,266	95,372	88,420
Lubricating oil				9,886	5,764	7,878
Somali Republic (b)—						
Aviation and motor spirit	3,442	3,534	3,628	3,908	5,405	4,989
Kerosine	603	532	598	738	772	849
Gas oil	878	957	1,765	1,587	2,110	2,263
Lubricating oil	131	146	170	140	59	204
Sudan—						
Aviation spirit (a)	20,731	24,650	29,289	22,634	19,449	15,445
Motor spirit	57,335	51,396	67,549	72,874	70,669	69,475
Kerosine	19,503	19,868	28,592	33,332	42,564	51,147
Gas oil	25,443	31,818	47,617	64,115	63,314	73,547
Diesel oil	27,605	27,283	25,139	20,384	21,257	26,838
Fuel oil	106,825	111,835	156,582	164,270	194,856	183,644
Lubricating oil, etc.	5,322	5,957	8,523	9,950	6,963	7,646
Asphalt and bitumen	3,395	3,551	5,797	6,036	2,755	3,162
Togo—						
Motor spirit	6,108	5,505	5,251	5,784	6,851	8,231
Kerosine	3,141	4,182	4,762	4,695	5,559	6,187
Fuel oil	4,794	4,174	5,640	4,849	5,635	8,314
Lubricating oil	849	473	692	610	448	623
Tunisia—						
Aviation spirit	90	147	571	297		
Motor spirit	83,402	78,616	70,131	72,970	77,001	74,463
Kerosine	36,524	37,855	34,502	37,074	41,266	43,337
Fuel oil	205,911	194,133	178,229	174,257	200,334	221,418
Gas oil	89,153	86,293	77,621	83,938	86,916	99,720
Lubricating oil	8,191	7,067	6,397	r 7,284	9,601	8,899
Petroleum jelly	6	—	—	10	25	51
Paraffin wax	79	58	62	111	60	68

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

(b) Former British Protectorate only.

(c) See under French West Africa.

(d) Including coal tar and pitch.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Upper Volta—						
Aviation spirit				765	970	1,113
Motor spirit				13	671	7,266
Kerosine	(a)	(a)	(a)	—	146	3,370
Gas oil				—	346	2,716
Fuel oils				—	62	578
Lubricating oil				—	9	51
Costa Rica—						
Motor spirit	38,864	43,979	51,854	49,111	47,776	72,261
Kerosine	5,805	6,838	7,888	7,778	7,758	13,471
Diesel oil, etc.	24,248	50,294	54,805	65,192	56,189	74,094
Fuel oil	40,837	52,036	31,636	20,891	9,276	20,239
Lubricating oil	3,103	2,720	3,868	5,540	4,213	4,788
Grease	224	274	343	291	227	296
Petroleum jelly	85	77	91	80	125	99
Paraffin wax	1,187	1,199	1,260	1,302	1,337	1,417
Asphalt	3,072	3,687	7,454	4,091	3,513	4,735
Cuba—						
Crude petroleum	445,461	444,583	915,504	2,030,833	<i>n.a.</i>	<i>n.a.</i>
Motor spirit	374,512	416,450	254,153	122,129	<i>n.a.</i>	<i>n.a.</i>
Kerosine	1,347	5,680	2,250	9,073	<i>n.a.</i>	<i>n.a.</i>
Fuel oil	1,127,320	1,121,888	1,806,195	1,727,157	<i>n.a.</i>	<i>n.a.</i>
Gas oil	53,202	39,813	39,049	21,144	<i>n.a.</i>	<i>n.a.</i>
Lubricating oil	51,714	54,491	37,909	48,162	<i>n.a.</i>	<i>n.a.</i>
Residual oils	84,046	138,140	80,797	28,723	<i>n.a.</i>	<i>n.a.</i>
Petroleum jelly	589	805	540	764	<i>n.a.</i>	<i>n.a.</i>
Paraffin wax	3,147	3,599	4,518	3,959	<i>n.a.</i>	<i>n.a.</i>
Asphalt rock	26	54	15	153	<i>n.a.</i>	<i>n.a.</i>
Other asphalt and bitumen	163	182	152	488	<i>n.a.</i>	<i>n.a.</i>
Petroleum coke	2,288	834	4,990	188	<i>n.a.</i>	<i>n.a.</i>
Dominican Republic—						
Aviation spirit	8,056	6,383	11,044	14,652	9,268	5,500
Motor spirit	69,667	78,266	79,368	82,464	80,293	78,759
Kerosine	12,316	11,650	9,035	12,373	11,776	14,562
Diesel oil	62,843	67,254	63,579	71,179	51,891	60,851
Fuel oil	109,096	118,304	134,417	127,580	177,633	147,975
Lubricating oil, etc.	7,227	6,919	10,711	7,841	7,204	7,736
Asphalt	<i>n.a.</i>	18,832	19,600	2,451	15,875	14,878
French West Indies—						
Guadeloupe—						
Motor spirit	15,139	15,207	19,540	17,869	22,587	22,248
Kerosine	5,290	7,024	7,829	8,527	10,004	10,547
Gas and fuel oil	4,882	7,308	7,953	8,945	12,776	13,250
Lubricating oil	1,057	1,677	2,002	1,501	2,342	2,916
Martinique—						
Motor spirit	13,910	14,663	20,981	16,407	19,721	22,623
Kerosine	9,195	7,905	8,314	9,455	10,463	9,051
Gas and fuel oil	13,192	13,283	21,603	17,874	20,348	20,570
Lubricating oil	1,062	1,848	2,644	1,495	2,177	2,275
Greenland—						
Motor spirit	703	815	1,345	1,473	2,070	2,107
Kerosine	942	1,001	1,361	1,039	2,887	1,103
Fuel oil	36,205	21,010	24,309	34,813	40,249	29,722
Lubricating oil	298	353	362	353	508	569
Guatemala—						
Crude petroleum, etc.	170,294	150,399	154,166	156,058	179,000	206,000
Aviation spirit	6,731	10,692	5,844	5,331	116,000	120,000
Motor spirit	77,645	94,384	108,580	114,713		
Kerosine	13,844	16,072	20,646	22,404	88,000	85,000
Diesel oil	31,648	45,427	49,836	67,201		
Fuel oil	3,138	3,096	2,509	4,144		
Lubricating oil	4,528	4,934	5,622	6,858	6,000	6,000

(a) See under French West Africa.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Guatemala (<i>cont.</i>)—						
Grease	397	537	515	657	<i>n.a.</i>	<i>n.a.</i>
Asphalt	18,074	11,181	11,880	17,377	19,000	15,000
Paraffin wax, etc.	2,843	3,467	3,561	3,850	4,000	6,000
Haiti (<i>a</i>)—						
Motor spirit	19,634	27,848	26,848	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Kerosine	2,462	3,291	2,242	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Fuel oil, etc.	6,721	12,356	9,312	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Honduras—						
Crude petroleum	21,741	32,013	39,643	65,596	69,712	71,413
Motor spirit	79,869	32,341	39,311	r 41,953	38,782	37,576
Kerosine	2,946	4,521	4,908	r 6,436	7,353	10,666
Gas, diesel and fuel oils	34,921	76,197	101,579	72,897	71,848	10,131
Lubricating oil	2,301	2,668	2,729	r 5,317	5,914	5,492
Greases		362	304	341	374	565
Mexico—						
Crude petroleum	—	43	191,369	101,853	10,468	—
Aviation spirit	475,364	33,131	48,789	53,414	52,797	580,800
Motor spirit		465,366	581,306	241,303	103,349	110,753
Kerosine	166,077	216,710	288,210	76,056	4,239	743
Gas oil	325,509	332,856	294,169	137,623	21,843	3,543
Fuel oil	430,073	464,208	417,951	418,994	258,652	87,698
Lubricating oil	40,795	17,311	19,272	11,818	11,149	12,789
Grease	5,256	7,129	4,576	4,964	5,940	3,588
Paraffin wax	37,044	15,909	19,949	12,689	17,408	21,249
Petroleum jelly	1,010	1,048	1,059	896	1,396	1,691
Asphalt	1,820	844	1,304	1,552	4,589	2,087
Asphalt rock	8,173	256	1,636	1,657	2,729	844
Natural gas (<i>million cu. ft.</i>)	19,713	18,710	14,230	9,324	10,327	9,877
Netherlands Antilles—						
Crude petroleum	42,156,899	43,435,159	40,702,334	36,027,260	38,180,175	38,151,901
Aviation spirit	139,542	323,327	295,154	257,814	82,650	286,885
Motor spirit	948,651	1,090,746	1,151,164	1,484,502	754,098	511,131
Kerosine	1,327	9,812	125,759	65,183	42,173	28,372
Fuel oil	2,461,784	1,149,016	853,920	2,891,177	1,840,249	1,032,264
Diesel oil	263,212	202,176	135,464	150,144	239,613	17,647
Gas oil	165,650	447,944	634,137	696,733	446,942	234,476
Lubricating oil, etc.	2,775	2,062	2,746	2,651	3,368	28,305
Asphalt	—	—	1,394	—	—	1,182
Nicaragua—						
Aviation spirit	43,822	50,333	52,562	56,479	56,974	60,379
Motor spirit						
Kerosine	16,337	15,187	15,460	17,686	16,077	16,423
Fuel oil	65,424	52,409	63,194	116,277	81,284	93,595
Lubricating oil	5,352	3,435	3,291	4,052	3,708	3,702
Paraffin wax	751	844	723	915	692	888
Petroleum jelly						
Natural asphalt	919	1,791	1,163	—	—	9
Panama Republic—						
Aviation spirit	76,608	77,943	89,909	24,494	24,322	41,788
Motor spirit				78,228	78,132	81,018
Kerosine	18,388	20,691	23,740	27,411	28,399	29,703
Diesel oil	34,925	31,858	46,348	50,489	64,476	47,925
Fuel oil	103,666	77,475	91,250	119,980	123,876	133,778
Lubricating oil	2,936	2,812	3,324	3,652	4,064	4,596
Grease	226	284	270	336	317	301
Paraffin wax etc.	121	105	126	235	227	329
Asphalt	1,946	2,988	2,194	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
St. Pierre and Miquelon—						
Motor spirit	5,546	5,747	499	429	437	552
Gas oil and fuel oil			9,341	9,973	8,307	10,666

(a) Years ended September 30.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Salvador—						
Motor spirit	58,951	66,353	70,789	75,256	73,530	72,754
Kerosine	15,149	16,903	22,326	25,761	29,040	26,774
Gas oil and diesel oil	13,766	16,721	19,794	21,482	24,220	31,580
Fuel oil	54,154	60,916	61,619	51,742	52,944	55,947
Lubricating oil	2,454	3,388	3,331	3,774	3,057	3,403
Grease	341	572	426	598	348	336
Paraffin wax, etc.	716	862	835	854	955	1,009
Petroleum jelly	40	66	128	97	208	236
Asphalt	3,217	7,080	4,952	5,531	7,934	5,526
United States—						
Crude petroleum	42,039,971	50,063,398	55,175,624	54,817,219	54,584,541	57,238,878
Aviation spirit	453	9,726	20,912	—	50,023	3,360
Motor spirit, etc.	575,709	817,749	1,264,678	2,978,302	2,041,739	289,595
Naphtha, etc.	6,863	30,225	31,402	364,831	363,180	255,935
Kerosine	5,626	29,446	15,922	4,287	15,879	8,837
Aviation turbine fuel	(a)	(a)	(a)	(a)	(a)	1,615,884
Fuel oil	22,715,425	24,121,996	25,661,278	28,606,304	32,549,078	33,649,080
Gas oil and diesel oil	692,313	755,862	1,241,109	1,985,880	2,007,818	1,328,327
Unfinished distillates and topped oils	929,604	638,650	222,284	2,871,438	3,180,507	2,863,433
Lubricating oil, etc.	113	92	73	1,052	128	3,222
Road oil, etc.	1,875	116,001	370,607	366,680	267,504	213,709
Paraffin wax, etc.	39	15	24	810	2,634	759
Ozokerite and ceresin	632	1,008	1,274	1,937	2,660	1,918
Petroleum jelly	1	1	2	3	513	6,238
Asphalt (petroleum)	537,708	462,313	704,595	821,504	1,028,791	774,746
Natural asphalt and bitumen	4,454	3,675	3,546	22,153	3,366	19,496
Natural gas (<i>million cu. ft.</i>)	10,888	10,380	37,941	135,797	133,990	155,646
Argentina—						
Crude petroleum	3,655,060	4,344,243	6,056,679	5,550,211	5,374,095	3,262,806
Motor spirit	63,979	47,297	81,379	52,733	40,993	42,672
Kerosine	158,645	127,776	112,063	139,206	248,427	478,925
Gas oil	381,824	336,781	395,967	330,534	393,376	501,351
Fuel oil	2,535,897	3,283,931	2,230,538	1,399,230	1,555,257	366,176
Diesel oil	148,977	191,793	234,246	320,446	442,922	255,319
Lubricating oil	38,590	76,750	38,433	63,590	40,906	63,434
Grease	93	367	68	209	373	86
Bolivia—						
Aviation spirit	6,089	6,476	5,786	9,746	10,895	<i>n.a.</i>
Motor spirit	17,329	69	43	2	11	<i>n.a.</i>
Kerosine	2,580	96	7	27	11	<i>n.a.</i>
Fuel oil	8,207	2,011	8,339	712	11,980	<i>n.a.</i>
Lubricating oil and grease	3,587	5,166	6,694	5,343	3,301	<i>n.a.</i>
Paraffin wax, etc.	1,788	777	1,469	1,088	1,013	<i>n.a.</i>
Tar, pitch, etc.	50	32	93	607	589	<i>n.a.</i>
Brazil—						
Crude petroleum	3,457,572	4,811,892	4,769,580	5,563,200	5,651,472	5,594,150
Aviation spirit	224,442	261,368	260,610	292,271	293,209	275,785
Motor spirit	927,369	461,453	431,523	657,291	401,011	601,128
White spirit	14,403	2,506	1,291	705	1,071	1,392
Kerosine	537,852	589,541	385,304	304,611	222,370	96,645
Diesel oil	1,047,417	1,204,269	875,426	1,103,858	1,251,348	1,244,422
Fuel oil	2,156,839	1,753,857	1,558,403	1,654,250	1,227,811	1,689,975
Lubricating oil	195,931	190,266	183,008	152,825	180,102	208,530
Transformer oil	771	1,077	3,853	1,656	2,411	359
Petroleum jelly	1,043	1,329	1,816	898	1,582	1,652
Greases	177	39	77	127	108	163

(a) Included with motor spirit.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Brazil (cont.)—						
Paraffin wax	7,029	10,242	11,381	10,113	10,359	16,678
Ozokerite and ceresin ..	44	74	142	81	136	271
Asphalt and bitumen ..	3,761	1,750	727	15,647	1,716	1,085
Chile—						
Aviation spirit	37,256	25,591	34,417	27,977	35,313	<i>n.a.</i>
Motor spirit	252,810	83,314	49,187	r 48,579	17,554	<i>n.a.</i>
Kerosine	152,370	138,736	163,807	85,209	150,772	<i>n.a.</i>
Diesel oil	171,728	103,276	118,970	236,772	158,537	<i>n.a.</i>
Residual fuel oil	1,056,498	794,880	682,284	790,038	1,821,914	<i>n.a.</i>
Lubricating oil	32,156	32,604	29,671	r 31,270	28,091	<i>n.a.</i>
Petroleum jelly	105	137	201	191	<i>n.a.</i>	<i>n.a.</i>
Greases	1,082	1,070	1,718	1,307	1,768	<i>n.a.</i>
Paraffin wax	5,024	6,230	6,645	r 7,122	7,893	<i>n.a.</i>
Natural asphalt.. .. .	606	1,063	3,926	3,031	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Aviation spirit	38,472	31,064	21,883	13,672	24,372	23,470
Motor spirit	267,813	256,019	204,829	24,263	9,308	36,202
Kerosine	62,395	54,796	38,323	3,703	5,090	2,915
Gas oil and diesel oil ..	65,324	47,663	33,403	4,223	3,154	9,599
Fuel oils	12,089	11,633	6,577	798	795	399
Lubricating oil	28,911	28,916	30,040	29,575	28,058	29,463
Petroleum jelly	432	343	506	388	393	435
Paraffin wax	23,733	22,050	24,227	14,433	19,519	23,483
Natural asphalt.. .. .	5,069	3,723	3,648	94	3	1
Ecuador—						
Motor spirit	54,760	56,344	74,290	74,003	70,936	<i>n.a.</i>
Lubricating oil and greases	3,938	4,118	4,315	4,558	5,024	<i>n.a.</i>
Petroleum jelly	73	57	48	109	53	<i>n.a.</i>
Paraffin wax	2,359	2,686	3,026	2,839	2,811	<i>n.a.</i>
Natural asphalt.. .. .	4,945	9,227	303	2,625	8,257	<i>n.a.</i>
French Guiana—						
Motor spirit	6,131	2,149	2,140	2,347	2,528	2,500
Kerosine		733	763	989	549	715
Fuel oil, etc.		2,299	1,966	2,671	2,282	2,596
Paraguay—						
Motor spirit	<i>n.a.</i>	29,000	31,000	35,000	29,000	32,000
Kerosine	<i>n.a.</i>	10,000	10,000	10,000	15,000	18,000
Fuel oil, etc.	<i>n.a.</i>	24,000	27,000	32,000	43,000	45,000
Lubricating oil	<i>n.a.</i>	1,700	1,800	2,400	1,500	2,700
Peru—						
Aviation spirit	52,080	63,386	82,570	68,774	72,739	93,221
Kerosine	407	—	—	—	—	—
Lubricating oil	12,352	16,274	17,495	16,233	14,063	15,844
Petroleum jelly	105	75	136	84	141	139
Paraffin wax	5,320	5,252	6,095	6,118	6,152	8,010
Asphalt and bitumen ..	200	207	5,903	242	4,198	317
Greases	960	1,109	1,461	1,173	1,174	1,589
Ozokerite	2	4	3	5	8	15
Surinam—						
Motor spirit	9,097	10,669	11,557	12,127	12,349	16,634
Kerosine	3,605	4,126	3,875	4,031	4,046	5,025
Gas oil	5,857	7,938	104,618	86,184	5,343	3,739
Diesel oil	18,694	19,834			34,798	45,406
Fuel oil	61,342	66,757			60,155	68,186
Lubricating oil	1,241	1,606	1,433	1,509	2,331	2,106
Greases	269	307	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Paraffin wax	6	5	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Asphalt	970	2,657	2,050	1,653	3,146	2,808
Uruguay—						
Crude petroleum	878,372	1,020,240	1,070,000	1,156,000	1,186,000	1,324,000
Motor spirit, etc.	30,000	8,000	7,000	46,000	19,000	8,000

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Uruguay (cont.)—						
Kerosine	56,000	17,000	<i>n.a.</i>	—	9,000	—
Gas oil	5,000	60,000	76,000	49,000	86,000	26,000
Diesel oil	14,000	27,000	47,000	14,000	18,000	33,000
Fuel oil	74,000	227,000	224,000	90,000	240,000	167,000
Lubricating oil and greases	10,726	7,926	13,945	5,000	9,000	19,000
Paraffin wax	<i>n.a.</i>	<i>n.a.</i>	201	268	418	420
Venezuela—						
Motor spirit	54,374	38,006	20,878	195	2,370	42,843
White spirit	14	17	58	39	2,893	1,423
Gas and fuel oils	102	58	129	11	25	452
Lubricating oil and grease	50,894	57,895	67,374	80,012	51,844	39,940
Paraffin wax	2,546	3,835	4,444	3,968	2,918	2,519
Petroleum jelly	138	148	156	379	175	411
Asphalt, bitumen, etc. ..	2,391	786	2,092	1,185	568	502
Burma—						
Motor spirit	75,270	82,258	26,743	13,176	10,869	14,172
Kerosine	17,737	23,817	2,658	1,805	17	4,321
Gas and diesel oils	44,731	58,024	45,229	28,873	24,224	30,920
Lubricating oil	10,148	17,477	6,722	12,201	15,318	12,170
Grease	492	531	351	520	766	615
Paraffin wax	200	<i>n.a.</i>	3	—	2	3
Asphalt	5,170	9,881	11,959	12,227	14,263	16,605
Formosa—						
Motor spirit	1,346	3,101	970	1,107	27	21
Fuel oil (incl. crude) ..	750,029	481,599	955,520	684,696	684,756	1,044,124
Lubricating oil	12,985	10,699	9,561	9,766	13,675	8,057
Grease	276	510	437	290	397	798
Petroleum jelly	34	141	84	199	5	<i>n.a.</i>
Paraffin wax	660	1,371	1,513	1,147	1,052	1,318
Asphalt	585	158	42	—	16	<i>n.a.</i>
Indonesia—						
Crude petroleum	2,635,950	2,523,967	3,225,420	1,237,433	1,144,503	349,122
Motor spirit	104,651	116,351	342,556	322,331	138,970	460,543
Kerosine, etc.	163	4,876	268	892	1,502	26,335
Fuel and gas oils	11,207	24,960	7,458	40,691	19,824	3,263
Lubricating oil	47,981	43,865	46,777	58,539	50,174	45,089
Paraffin wax	618	555	747	1,000	826	447
Petroleum jelly	1,794	1,212	1,065	1,792	1,505	271
Asphalt	16,061	29,413	40,661	11,177	32,182	14,136
Iran (a)—						
Lubricating oil	<i>n.a.</i>	17,324	12,813	17,586	<i>n.a.</i>	<i>n.a.</i>
Paraffin wax	<i>n.a.</i>	726	536	950	<i>n.a.</i>	<i>n.a.</i>
Petroleum jelly	<i>n.a.</i>	207	122	211	<i>n.a.</i>	<i>n.a.</i>
Iraq—						
Motor spirit	313	47	19	3	<i>n.a.</i>	<i>n.a.</i>
Kerosine	338	8	—	1	<i>n.a.</i>	<i>n.a.</i>
Lubricating oil	16,977	24,690	16,938	3,272	<i>n.a.</i>	<i>n.a.</i>
Israel (b)—						
Motor spirit	193,692	216,796	189,155	183,321	<i>n.a.</i>	<i>n.a.</i>
Kerosine	134,246	161,651	154,664	142,600	<i>n.a.</i>	<i>n.a.</i>
Gas, diesel and fuel oils ..	861,524	896,327	914,420	1,059,909	<i>n.a.</i>	<i>n.a.</i>
Lubricating oils	7,345	10,150	11,817	9,515	13,131	<i>n.a.</i>
Paraffin wax	508	982	1,382	1,165	1,953	<i>n.a.</i>
Petroleum jelly	16	26	78	96	82	<i>n.a.</i>
Asphalt	615	381	361	62	235	<i>n.a.</i>
Turpentine substitute ..	314	141	54	19	38	<i>n.a.</i>

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

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

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Japan—						
Crude petroleum ..	7,164,330	9,799,426	12,540,740	13,915,909	18,772,137	26,628,519
Aviation spirit ..	59,520	67,584	89,518	62,264	60,197	50,575
Motor spirit ..	180,656	34,888	17,664	13,789	2,338	59,511
Kerosine ..	31,125	2,803	12,972	731	2,447	50
Aviation turbine fuel ..	<i>n.a.</i>	<i>n.a.</i>	3,637	4,687	15,139	47,730
Gas oil ..	186,427	90,328	96,918	40,043	54,712	79,372
Fuel oil ..	2,840,658	2,994,017	4,743,754	2,761,551	3,008,072	4,867,735
Lubricating oil ..	26,175	42,401	82,390	37,438	58,028	146,993
Grease ..	973	1,372	1,045	933	1,667	3,721
Petroleum jelly ..	1,354	3,068	3,095	2,092	3,513	3,735
Paraffin wax ..	820	1,730	947	1,099	2,207	3,743
Gilsonite ..	1,260	1,666	1,891	1,723	2,862	3,757
Asphalt and pitch ..	886	1,277	2,210	982	742	173
Petroleum coke ..	123,970	217,012	244,425	149,259	231,470	368,585
Jordan—						
Crude petroleum ..	12,756	12,246	16,635	19,556	16,898	75,550
Motor spirit ..	29,533	35,156	36,107	33,267	45,231	43,795
Kerosine ..	32,006	39,732	33,944	36,144	41,082	5,476
Fuel oil, etc. ..	34,562	45,021	46,085	62,280	89,006	97,300
Lubricating oil ..	2,541	2,471	3,042	2,852	3,537	4,511
Natural asphalt ..	4,144	5,094	6,400	4,799	8,612	8,851
Korea (South)—						
Aviation spirit ..					1,318	1,291
Motor spirit ..					150,030	120,000
Kerosine, etc. ..					60,458	31,805
Gas, diesel and fuel oils					556,665	449,120
Lubricating oils ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	12,705	14,502
Greases ..					3,903	493
Petroleum jelly ..					68	156
Paraffin wax ..					8,029	13,400
Asphalt and pitch ..					52,933	9,968
Laos—						
Aviation spirit ..	2,149	5,567	<i>n.a.</i>	<i>n.a.</i>	3,363	4,710
Motor spirit ..	3,887	8,428	<i>n.a.</i>	<i>n.a.</i>	13,701	11,672
Kerosine ..	1,135	1,937	<i>n.a.</i>	<i>n.a.</i>	1,649	1,773
Gas oil ..	1,156	1,906	<i>n.a.</i>	<i>n.a.</i>	3,984	5,150
Fuel oil ..	168	728	<i>n.a.</i>	<i>n.a.</i>	1,606	1,444
Lubricating oil ..	566	718	<i>n.a.</i>	<i>n.a.</i>	1,174	1,496
Lebanon—						
Crude petroleum ..	899,703	985,937	1,034,925	793,790	731,128	721,709
Motor spirit ..	118,428	114,334	129,763	122,305	146,724	159,252
Kerosine ..	37,133	41,725	49,157	62,645	77,582	104,658
Fuel oil ..	239,692	279,765	313,304	283,594	399,403	415,363
Lubricating oil ..	5,223	4,893	5,699	4,652	7,233	7,318
Paraffin wax ..	184	163	197	267	302	222
Natural asphalt ..	1,810	1,346	69	20,609	317	375
Philippine Republic—						
Crude petroleum ..	260,731	459,271	283,345	743,276	932,760	1,842,352
Aviation spirit ..	21,453	29,388	34,895	42,003	29,804	32,658
Motor spirit ..	348,980	382,636	320,932	329,921	324,731	394,756
Kerosine ..	131,717	158,155	132,649	138,586	117,654	164,662
Diesel oil ..	610,230	294,281	353,412	356,796	316,293	259,126
Fuel oils ..	329,311	353,689	430,741	361,115	278,314	299,849
Lubricating oils ..	40,518	40,023	39,697	39,968	44,355	61,326
Grease ..	2,143	9,524	2,958	2,272	4,035	3,969
Petroleum jelly ..	6,400	1,120	1,160	1,274	1,693	1,723
Paraffin wax ..	5,883	3,190	5,081	5,327	4,766	6,532
Asphalt ..	24,818	13,319	27,890	38,646	15,842	22,556
Portuguese India—						
Motor spirit ..	10,885	11,942	25,391	19,187	16,158	<i>n.a.</i>
Kerosine ..	5,458	6,257	10,556	7,021	6,816	<i>n.a.</i>

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Portuguese India(<i>cont.</i>)—						
Lubricating oils ..	778	1,174	1,160	855	1,395	<i>n.a.</i>
Other oils	6,797	7,438	14,916	9,354	13,082	<i>n.a.</i>
Syria—						
Motor spirit	83,603	97,303	94,296	51,824	25,745	8,253
Kerosine	56,046	64,177	69,868	40,857	31,586	4,397
Fuel oil and diesel oil ..	354,396	429,586	419,982	509,282	408,762	143,895
Lubricating oil	10,707	9,715	11,113	13,221	10,467	11,748
Natural asphalt	506	2,886	975	161	869	1,259
Thailand—						
Aviation spirit	34,031	19,079	11,982	—	9,011	2,803
Motor spirit	116,180	214,367	277,166	265,474	298,395	361,084
Kerosine	79,141	93,133	83,584	88,972	96,882	114,421
Gas, diesel and fuel oils ..	177,771	413,956	461,921	492,640	520,955	568,742
Lubricating oil	24,743	26,021	32,346	23,604	26,833	34,745
Grease	1,163	1,352	1,773	1,223	1,843	1,719
Paraffin wax	1,277	1,016	1,603	1,223	1,160	2,197
Petroleum jelly	745	624	725	521	812	625
Asphalt	23,778	22,672	28,655	14,046	34,062	22,601
Turkey—						
Motor spirit	288,105	222,107	265,652	193,392	418,636	351,877
Kerosine	229,605	201,605	250,453	210,456	374,231	298,361
Gas and diesel oils	348,698	295,992	435,121	354,702	619,559	483,463
Fuel oil	24,359	27,036	25,582	18,842	36,550	44,494
Lubricating oils and grease	50,790	43,288	57,334	69,117	69,599	47,614
Paraffin wax	1,314	436	145	524	1,459	837
Petroleum jelly	116	122	147	162	161	165
Asphalt	9,766	136	46	432	1,970	3,005
Vietnam—						
Aviation spirit		4,275	17,007	5,290	1,463	1,758
Motor spirit	173,064	123,821	136,148	213,118	157,209	147,160
Kerosine		47,762	54,582	76,623	66,500	71,662
Gas oil		19,110	29,913	45,662	53,033	57,944
Fuels oils	144,332	112,625	129,022	118,774	182,458	192,989
Lubricating oils and grease	6,565	7,094	11,197	11,269	13,548	<i>n.a.</i>
Petroleum jelly	64	103	127	86	90	<i>n.a.</i>
Paraffin wax	2,421	1,873	2,078	2,713	2,616	<i>n.a.</i>
French Polynesia—						
Motor spirit, etc.	3,453	2,948	3,581	3,106	4,284	4,560
Kerosine	1,280	1,680	1,676	1,512	1,843	2,206
Other oils	5,806	5,948	7,645	8,125	8,230	11,363
New Caledonia—						
Motor spirit, etc.	10,331	11,850	14,317	14,302	14,665	14,403
Kerosine	2,684	3,095	3,299	3,865	3,640	3,302
Gas and fuel oils	14,347	21,829	31,992	25,993	19,225	47,183
Lubricating oil, etc.	857	1,160	1,523	7,237	35,636	30,250

PHOSPHATES
PRODUCTION OF PHOSPHATE-ROCK
(Including Apatite)

Producing Country	Estimated Tribasic Phosphate of Lime Content or equivalent						Long tons
	1955	1956	1957	1958	1959	1960	
COMMONWEALTH COUNTRIES							
Seychelles (a) (b) ..	785	4,123	6,136	16,540	5,526	6,339	4,000
Southern Rhodesia (d) ..	—	—	—	—	1,676	3,437	2,000
South West Africa (a) ..	1,736	—	2,527	—	1,187	—	—
Tanganyika (c) ..	103	3	3	—	—	—	—
Uganda (d) ..	3,160	2,914	3,256	2,474	3,124	4,008	2,000
Union of South Africa—							
Phosphate rock (h) ..	133,721	154,316	166,433	213,087	228,005	263,423	155,000
Guano ..	4,909	4,092	(g) 3,757	(g) 3,853	5,251	3,636	900
Jamaica (c) ..	477	385	101	130	27	64	20
Christmas Island (b) ..	390,226	340,611	335,569	373,750	494,347	503,440	428,000
India (d) ..	5,562	8,785	9,178	14,572	13,808	14,685	5,000
Sarawak (c) ..	402	385	465	306	619	n.a.	n.a.
Australia—							
Phosphate rock ..	6,371	6,788	r 10,843	r 7,251	4,775	2,234	1,000
Guano ..	—	—	587	170	—	87	60
Nauru Island (b) ..	1,401,250	1,332,600	1,105,250	1,234,450	1,192,240	1,351,257	1,162,000
Ocean Island (b) ..	308,850	297,150	292,150	323,800	314,392	319,526	275,000
TOTAL ..	2,258,000	2,152,000	1,936,000	2,190,000	2,265,000	2,473,000	
OTHER COUNTRIES							
Belgium (e) ..	19,290	13,414	15,854	17,724	12,973	n.a.	n.a.
France (e) ..	100,872	89,243	91,803	101,697	75,642	43,600	5,000
Spain ..	23,060	8,480	186	3,236	870	—	—
U.S.S.R. (f) —							
Apatite ..	3,445,000	3,690,000	3,940,000	3,940,000	3,940,000	4,230,000	3,440,000
Phosphate rock ..	1,425,000	1,575,000	1,720,000	1,970,000	1,970,000	2,265,000	1,490,000
Algeria ..	739,998	r 600,355	r 603,404	552,088	522,913	538,946	360,000

(a) Phosphatic guano.
(b) Exports.
(c) Bat guano.
(d) Apatite.
(e) Including phosphatic chalk.
(f) United States Bureau of Mines' estimate.
(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					1960	1959	1958	1957	1956	1955
	1955	1956	1957	1958	1959						
OTHER COUNTRIES											
<i>(cont.)</i>											
Egypt	636,466	576,000	549,000	668,000	558,000	395,000	375,000	357,000	340,000	414,000	346,000
Malagasy Republic .. .	r 3,205	3,459	r 5,000	7,000	n.a.	2,000	2,000	3,000	4,000	5,000	n.a.
Morocco .. .	5,244,693	5,479,588	6,235,756	7,050,365	7,374,134	3,776,000	3,913,000	3,945,000	4,490,000	5,080,000	5,310,000
Mozambique (f) .. .	1,856	224	441	90	103	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Senegal—											
Phosphate rock .. .	5,400	5,200	—	—	105,985	4,200	4,100	—	—	—	88,000
Aluminium phosphates .. .	102,802	67,100	88,441	93,834	103,629	65,000	43,000	56,000	65,000	59,000	65,000
Somali Republic (b) (f) .. .	239	196	—	217	339	90	74	—	—	82	129
Tunisia .. .	2,165,987	2,044,021	2,034,674	2,150,455	2,062,894	1,408,000	1,329,000	1,323,000	1,458,000	1,398,000	1,341,000
Netherlands Antilles (b) .. .	r 109,240	r 103,579	r 105,384	96,611	113,097	80,000	76,000	77,000	62,000	71,000	83,000
United States (e) .. .	12,265,248	15,747,000	14,879,000	15,869,000	17,516,000	8,492,000	10,837,000	9,517,000	10,199,000	10,791,000	11,892,000
Brazil (d) (g) .. .	c 123,000	123,000	143,569	250,000	(c)250,000	71,000	71,000	71,000	83,000	140,000	140,000
Chile—											
Apatite .. .	51,504	58,125	(g)40,000	19,101	c g 20,000	26,700	29,200	11,200	24,700	11,200	12,000
Guano .. .	41,000	24,000	31,000	21,000	(d)20,000	16,000	9,000	13,000	12,000	8,000	8,000
Peru (f) .. .	285,000	331,000	280,000	107,000	144,000	70,000	80,000	70,000	40,000	27,000	36,000
Venezuela .. .	—	29,723	146,000	—	—	—	16,000	77,000	—	—	—
China (d) .. .	(g)40,000	(g)24,300	n.a.	n.a.	n.a.	49,000	17,500	n.a.	n.a.	n.a.	n.a.
Indonesia (g) .. .	550	(c) 500	500	(c) 2,000	7,000	200	200	200	200	1,000	3,000
Israel .. .	70,705	115,295	148,000	201,500	c 200,000	44,000	72,000	90,000	128,000	125,000	125,000
Jordan .. .	161,014	205,263	257,761	440,000	385,455	118,000	150,000	188,000	211,000	320,000	281,000
Philippine Republic—											
Phosphate rock .. .	—	—	—	—	349	—	—	—	—	—	n.a.
Guano .. .	148	7,762	3,685	373	9,877	40	2,000	900	2,000	90	2,400
Vietnam (North) (d) .. .	n.a.	55,000	87,000	n.a.	500,000	n.a.	50,000	70,000	150,000	n.a.	400,000
Angaur Island .. .	76,882	—	—	—	—	52,000	—	—	—	—	—
French Polynesia (Makatea)	221,000	255,000	303,600	362,967	406,684	181,000	209,000	249,000	262,000	298,000	333,000
TOTAL .. .	27,400,000	31,210,000	30,000,000	34,000,000	37,000,000	—	—	—	—	—	—
WORLD'S TOTAL .. .	29,700,000	33,360,000	32,000,000	36,000,000	39,000,000	—	—	—	—	—	—

Phosphate rock is also known to have been produced in Poland 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					
	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Single	870,541	940,872	890,335	760,570	682,372	719,624
Concentrated*	n.a.	n.a.	(c) 97,000	114,906	148,852	160,679
Union of South Africa*—						
Single	545,811	557,067	603,705	663,455	631,610	664,962
Canada*—						
Single	184,286	179,358	184,401	170,010	199,845	213,698
India—						
Single	74,165	81,000	142,000	167,000	248,000	317,000
Concentrated*	—	188	92	50	—	—
Pakistan—						
Single	n.a.	n.a.	1,024	1,423	n.a.	n.a.
Australia—						
Single (a)	1,956,735	1,916,237	1,975,015	2,219,592	2,150,413	2,450,249
New Zealand—						
Single (b)	947,002	898,645	843,139	767,197	906,685	1,045,168
TOTAL						
	1,000,000	1,000,000	1,000,000	1,020,000	1,060,000	1,180,000
Irish Republic*—						
Single	166,535	146,058	122,263	191,094	202,746	229,200
OTHER COUNTRIES						
Austria*—						
Single	49,777	42,291	43,600	119,230	133,999	150,857
Belgium*—						
Single	115,755	194,836	(c) 172,000	191,266	201,821	185,807
Concentrated	43,867	29,446	(c) 28,900	53,525	58,289	(c) 61,000
Czechoslovakia—						
Single	312,000	324,000	362,000	(c) 402,000	(c) 470,000	n.a.
	r 56,187	r 58,223	r 65,247	r 72,313	r 84,610	n.a.
	28,300	26,300	22,000	34,400	36,200	40,900
	8,800	7,600	7,800	21,500	24,100	27,200
	19,500	32,500	29,000	33,800	34,700	32,500
	18,400	12,400	12,400	23,500	25,600	27,000

*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	1955	1956	1957	1958	1959	1960	Estimated P ₂ O ₅ Content					
							1955	1956	1957	1958	1959	1960
OTHER COUNTRIES (cont.)												
Denmark (a)---	350,971	344,192	301,929	218,811	168,127	105,902	63,200	62,000	54,300	39,400	30,300	19,100
Finland---	90,200	135,916	113,207	153,300	222,394	225,646	16,500	25,100	20,900	29,100	42,300	42,900
Kotka-phosphate	205,600	189,127	237,762	n.a.	143,520	152,977	37,600	35,000	44,000	n.a.	27,300	29,100
France---	1,055,100	1,068,509	1,138,965	1,220,591	1,149,903	1,203,261	179,000	182,000	194,000	208,000	195,000	212,000
Concentrated*	29,008	30,967	32,461	49,931	54,407	56,549	13,400	14,700	14,600	21,200	24,100	23,600
Germany (Federal)*---	444,273	448,012	431,873	457,201	444,828	391,104	75,600	76,200	73,800	76,800	84,900	67,200
Germany (East)---	286,000	391,000	399,000	409,000	427,000	544,000	51,500	70,300	71,800	73,700	76,800	98,000
Greece*---	211,285	138,237	193,448	209,574	207,396	168,646	33,800	22,200	30,900	33,500	33,100	30,000
Concentrated	4,387	13,884	---	---	---	---	1,900	5,600	---	---	---	---
Hungary---	155,745	147,418	162,295	n.a.	227,249	261,935	24,900	23,600	26,000	n.a.	36,400	41,900
Italy---	1,944,106	1,867,915	1,822,814	1,721,650	1,732,433	1,467,586	376,200	352,300	349,600	335,000	341,000	289,000
Single	438,592	418,400	407,880	436,150	498,897	525,984	77,200	74,700	73,800	79,900	89,100	94,600
Netherlands*---	102,812	96,154	106,060	113,796	100,443	125,573	45,200	42,200	46,000	47,700	43,200	52,200
Single	91,489	108,040	58,305	66,000	58,000	63,000	16,500	19,400	10,500	12,000	10,000	11,000
Concentrated*	---	---	28,120	18,005	39,332	36,847	---	---	9,700	5,900	12,800	11,000
Poland (b)	515,000	470,000	518,000	572,000	621,000	689,000	85,000	78,000	85,000	94,000	102,000	114,000
Single	392,469	377,413	434,785	385,453	409,472	438,705	70,600	67,900	78,300	69,400	73,700	79,000
Portugal---	---	---	---	---	---	---	---	---	---	---	---	---
Concentrated	---	---	---	---	---	---	---	---	---	---	---	---

*Source: International Superphosphate Manufacturers' Association.

(a) In addition the following amounts of potash superphosphate were produced (long tons): 1955—102,540; 1956—168,369; 1957—256,843; 1958—356,920; 1959—417,237; 1960—547,860.

(b) In addition the following amounts of superbasic slag were produced (long tons): 1955—127,100; 1956—114,500; 1957—136,000; 1958—148,000; 1959—166,000; 1960—236,000.

PRODUCTION OF SUPERPHOSPHATES (cont.)

Long tons

Producing Country	1955	1956	1957	1958	1959	1960	Estimated P ₂ O ₅ Content					
							1955	1956	1957	1958	1959	1960
OTHER COUNTRIES (cont.)												
Roumania—												
Single ..	45,000	54,000	74,000	r 119,000	269,000	320,000	r 7,000	r 9,000	r 12,000	19,000	43,000	51,000
Spain—						(a)1,979,000	238,600	257,700	258,700	294,300	329,200	318,600
Single ..	1,440,899	1,543,150	1,532,778	(a)1,743,000	(a)1,950,000	476,000	100,400	100,100	96,000	89,100	93,900	93,000
Sweden*—						8,552	—	—	—	—	2,400	2,500
Single ..	523,126	512,729	488,442	461,509	484,825	6,960	—	—	—	—	7,000	7,000
Concentrated						(c)40,000	2,800	2,900	3,300	4,900	7,000	7,000
Switzerland*—						100	—	—	45	150	—	45
Single ..	15,600	16,200	18,600	27,500	40,000	—	—	—	—	—	—	—
Concentrated			(c) 100	344	—	—	—	—	—	—	—	—
U.S.S.R.—							900,000	n.a.	n.a.	n.a.	n.a.	n.a.
Single ..	4,683,000	n.a.	n.a.	n.a.	n.a.	n.a.	—	—	—	—	—	—
Concentrated							—	—	—	—	—	—
Yugoslavia—							24,000	31,000	40,000	50,000	52,000	46,000
Single ..	126,094	162,598	212,399	260,742	272,776	243,760	18,600	12,500	15,400	14,900	14,700	13,900
Algeria—							4,000	4,000	4,000	(b)	(b)	(b)
Single ..	116,473	78,280	96,240	r 93,132	91,600	87,100	20,600	23,700	26,900	24,900	24,600	27,700
Canary Islands—							14,000	8,000	12,000	16,000	14,000	13,000
Single ..	21,942	24,820	26,023	(b)	(b)	(b)	14,000	8,000	12,000	16,000	14,000	13,000
Egypt—							20,600	23,700	26,900	24,900	24,600	27,700
Single ..	134,886	154,044	174,676	164,169	163,904	184,541	14,000	8,000	12,000	16,000	14,000	13,000
Morocco—							7,000	4,000	4,000	5,000	5,000	3,000
Single ..	89,000	49,000	76,000	99,000	87,000	77,000	31,000	34,000	43,000	46,000	52,000	54,000
Tunisia—							5,000	5,000	7,000	7,000	7,000	8,300
Single ..	45,000	26,000	28,000	32,000	30,000	22,000	12,900	14,800	16,200	13,700	18,600	25,000
Concentrated						126,000	1,398,100	1,328,600	1,232,200	1,155,700	1,246,000	1,144,000
Cuba*—		(c)30,000	(c)40,000	(c)40,000	(c)40,000	46,002	630,900	672,700	742,400	744,200	744,200	891,800
Single ..							—	—	—	—	—	—
Mexico*—							1,328,600	1,328,600	1,232,200	1,155,700	1,246,000	1,144,000
Single ..	64,600	76,031	83,250	69,644	100,758	134,994	1,398,100	1,328,600	1,232,200	1,155,700	1,246,000	1,144,000
United States*—							630,900	672,700	742,400	744,200	744,200	891,800
Single ..	7,767,416	7,380,836	6,845,281	6,420,361	6,922,130	6,355,487	1,398,100	1,328,600	1,232,200	1,155,700	1,246,000	1,144,000
Concentrated						1,981,798	630,900	672,700	742,400	744,200	744,200	891,800
Single ..	1,401,952	1,494,876	1,649,820	1,653,839	1,653,821	1,981,798	630,900	672,700	742,400	744,200	744,200	891,800

* Source: International Superphosphate Manufacturers' Association.

(b) Included with Spain.

(c) Estimated.

(d) Including enriched superphosphate.

PRODUCTION OF SUPERPHOSPHATES (cont.)

Long tons

Producing Country	1955	1956	1957	1958	1959	1960	Estimated P ₂ O ₅ Content					
							1955	1956	1957	1958	1959	1960
OTHER COUNTRIES (cont.)												
Brazil*	64,000	(a) 74,000	74,000	129,734	a 150,000	396,980	12,000	13,000	13,000	23,400	27,000	71,500
Single	..	..	..	..	..	..	..	..	..	..	..	..
Columbia	2,000*	2,000*	n.a.	2,097	n.a.	5,403*	400	400	400	400	n.a.	1,000
Single	..	..	..	..	(a) 34,000	23,400	—	—	—	—	7,000	4,700
Peru*	—	—	—	—	(a) 30,000	26,997	5,100	6,500	6,500	6,500	6,500	5,400
Single	..	..	..	..	..	..	..	..	..	..	..	..
Uruguay*	25,600	29,500	29,500	30,000	(a) 30,000	26,997	5,100	6,500	6,500	6,500	6,500	5,400
Single	..	..	..	..	..	..	..	..	..	..	..	..
Venezuela*	—	—	—	—	—	8,956	—	—	—	—	—	1,600
Single	..	..	..	..	..	..	..	..	..	..	..	..
Formosa	78,922	99,123	101,969	102,170	116,875	119,542	14,200	17,800	18,400	18,400	21,000	22,000
Single	..	..	..	..	..	..	..	..	..	..	..	..
Israel*	99,693	93,983	104,115	67,440	71,248	80,196	15,000	15,300	16,800	11,200	11,400	12,700
Single	..	..	..	..	..	..	..	..	..	..	..	..
Concentrated	—	—	—	15,788	6,840	296	—	—	—	6,500	2,900	100
Japan*	1,765,507	2,019,264	1,827,826	1,715,441	1,784,327	2,097,937	308,200	353,400	317,300	298,300	309,800	365,300
Single	..	..	..	..	..	..	..	..	..	..	..	..
Concentrated	1,035	2,891	1,731	968	3,150	7,151	400	1,200	700	400	1,200	2,600
Jordan	—	—	—	—	—	440	—	—	—	—	—	80
Single	..	..	..	..	..	..	..	..	..	..	..	..
Lebanon*	—	—	—	—	—	15,881	—	—	—	2,000	5,000	3,500
Single	..	..	..	..	..	..	..	..	..	..	..	..
Philippine Republic*	—	—	—	10,300	26,216	2,056	—	—	—	—	—	400
Single	..	..	..	..	..	..	..	..	..	..	..	..
Turkey	—	—	—	—	—	53,000	—	—	—	800	9,600	9,000
Single	..	..	..	..	..	..	..	..	..	..	..	..
TOTAL	17,901	10,028	7,437	5,049	64,023	53,000	3,100	1,800	1,100	800	9,600	9,000
..	..	..	..	..	..	..	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	6,000,000
WORLD'S TOTAL	..	..	..	..	..	..	6,000,000	6,000,000	6,000,000	6,000,000	6,000,000	7,000,000

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

*Source: International Superphosphate Manufacturers' Association.

(a) Estimated.

PRODUCTION OF BASIC SLAG

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Great Britain (a) ..	483,300	615,392	619,712	648,768	646,097	830,380
OTHER COUNTRIES						
Belgium (a)	1,029,000	1,160,000	1,135,000	1,051,000	1,108,000	1,138,000
France	1,679,445	1,729,207	1,816,881	1,889,333	2,007,244	^a 1,951,000
Germany (Federal) ..	2,324,000	2,463,000	2,515,000	2,325,000	2,635,000	3,531,000
Germany (East)	74,000	75,000	81,000	87,000	100,000	107,000
Italy	63,200	54,895	74,617	80,700	78,016	97,303
Luxemburg	673,136	732,690	724,500	674,199	704,648	768,125
Saar	503,933	532,162	549,374	562,435	<i>n.a.</i>	(b)
Sweden	18,249	14,988	49,163	52,155	60,076	<i>n.a.</i>

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

(a) Years ended June 30 of that stated.

(b) Included with Germany (Federal).

EXPORTS OF PHOSPHATES, ETC.

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Phosphatic fertilizers ..	2,612	1,111	1,313	1,058	166	607
Seychelles—						
Phosphatic guano ..	785	4,123	6,136	16,540	5,526	6,988
South West Africa—						
Phosphatic guano ..	1,471	—	2,517	—	762	—
Uganda—						
Phosphates ..	3,105	2,399	2,641	2,630	3,121	3,416
Union of South Africa—						
Superphosphates ..	38,625	24,517	22,145	4,200	540	843
Canada—						
Phosphatic fertilizer ..	(£6,330,387)	(£5,639,337)	(£4,848,807)	(£4,531,308)	(£8,510,822)	(£7,684,873)
Christmas Island—						
Phosphate-rock ..	390,226	340,611	335,569	373,750	494,347	503,440
Hong Kong—						
Phosphatic fertilisers ..	—	—	—	30,340	—	—
Malaya—						
Phosphatic fertilizers ..	32	12	138	63	62	62
Australia (a)—						
Superphosphates ..	2,137	1,727	1,742	2,064	1,919	623
New Zealand—						
Superphosphates ..	38	48	95	81	93	98
Nauru Island—						
Phosphate-rock ..	1,401,250	1,332,600	1,105,250	1,234,450	1,192,240	1,351,257
Ocean Island—						
Phosphate-rock ..	308,850	297,150	292,150	323,800	314,392	319,526
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Phosphate-rock ..	71	880	836	3,329	3,204	3,124
Superphosphates—						
Single ..	63,654	96,614	65,948	130,458	95,835	109,567
Concentrated ..	33,551	25,257	29,885	45,047	58,506	61,366
Di-calcium phosphate	133,560	135,894	148,287	185,206	200,018	n.a.
Basic slag ..	1,184,450	1,331,408	1,501,980	1,393,917	1,499,170	1,403,422
France—						
Phosphate-rock ..	1,353	36	140	839	1,956	1,846
Superphosphates ..	22,019	15,603	23,362	17,971	28,921	83,545
Basic slag ..	301,841	283,239	355,771	334,550	344,662	294,874
Di-calcium phosphates	824	932	1,086	1,751	940	750
Germany (Federal)—						
Phosphate-rock ..	1	—	99	12,643	16,142	24,960
Superphosphates ..	11,142	16,308	12,433	9,069	14,413	17,258
Basic slag ..	121,009	92,497	146,215	175,589	370,229	389,771
Other phosphatic fertilizers ..	13,830	10,501	11,993	3,898	4,875	3,922
Hungary—						
Superphosphates ..	26,866	25,098	22,010	37,086	31,300	33,741
Italy—						
Superphosphates ..	70,507	92,463	122,655	135,135	130,146	109,653
Netherlands—						
Phosphate-rock ..	1,229	2,731	602	6,937	9,420	4,978
Superphosphates ..	305,535	319,782	344,519	372,478	413,186	468,076
Norway—						
Superphosphates ..	2,188	4,529	5,019	9,754	20,002	25,118
Portugal—						
Superphosphates ..	12,958	21,676	12,205	15,122	34,453	35,451

(a) Years ended June 30 of that stated.

EXPORTS OF PHOSPHATES, ETC. (cont.)

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Spain—						
Superphosphates, etc. . .	234	145	102	9,169	57,856	<i>n.a.</i>
Sweden—						
Superphosphates	165	4,110	—	4,029	14,258	—
Basic slag	9,767	21,404	24,883	17,224	33,439	14,166
U.S.S.R.—						
Apatite ore	88,400	80,600	42,000	98,900	91,600	115,900
do. concentrates	884,500	1,106,000	1,241,800	1,480,900	1,634,500	1,777,100
Superphosphates	47,400	62,600	119,600	93,500	117,200	200,000
Algeria—						
Phosphate-rock	711,706	569,477	563,766	r 545,924	490,186	462,695
Superphosphates	4,742	6,096	7,925	2,170	1,755	2,175
Egypt—						
Phosphate-rock	414,304	408,536	373,716	416,579	441,641	296,901
Malagasy Republic—						
Phosphate-rock	—	2,584	3,396	1,968	8,859	<i>n.a.</i>
Morocco—						
Phosphate-rock	5,165,153	5,472,398	5,304,574	6,173,749	6,948,240	7,463,502
Hyperphosphates	<i>n.a.</i>	4,439	14,932	8,842	983	5,955
Senegal—						
Phosphate-rock	11,023	5,532	6,899	} 60,371	69,371	76,969
Aluminium phosphates	64,392	56,940	64,359			
Somali Republic— (a)						
Phosphatic guano	239	196	—	—	217	339
Tunisia—						
Phosphate-rock	1,888,283	1,747,733	1,708,710	1,923,949	1,827,936	1,604,275
Hyperphosphates	42,897	100,887	103,722	92,229	101,690	56,838
Superphosphates	61,236	71,650	90,040	115,831	108,213	110,141
Mexico—						
Phosphate-rock	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	13,387	28,795	21,995
Netherlands Antilles—						
Phosphate-rock	109,240	103,579	105,384	85,269	96,611	113,097
United States—						
Phosphate-rock	2,267,648	2,880,484	3,126,215	2,818,073	3,239,722	4,246,292
Superphosphates—						
Single	} 376,614	{ 324,701	271,357	195,967	140,917	136,786
Concentrated			169,324	314,423	271,714	280,146
Angaur Island—						
Phosphate-rock	76,882	—	—	—	—	—
French Polynesia (Makatea)—						
Phosphate-rock	222,608	260,742	r 309,101	304,370	305,678	357,381
Israel—						
Phosphate-rock	30	29,623	20,881	58,483	91,573	94,265
Japan—						
Phosphate-rock	1,968	—	—	2,430	12,130	10,686
Superphosphates	206,001	320,263	195,436	139,613	102,355	101,599
Calcined phosphates	<i>n.a.</i>	30,362	1,672	3,902	10,169	25,779
Basic slag	<i>n.a.</i>	10,251	6,781	—	—	—
Other phosphatic fertilizers	29,019	98	16,754	941	3,207	6,303
Jordan—						
Phosphate-rock	148,242	154,529	210,320	228,638	243,829	313,796
Lebanon—						
Superphosphates	—	—	—	3,252	20,902	11,034

(a) Former British Protectorate only.

IMPORTS OF PHOSPHATES, ETC.

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Phosphate-rock.. ..	1,132,274	1,181,894	1,102,422	1,067,452	1,055,685	1,431,187
Guano, raw	613	—	—	—	—	—
Superphosphates	1,901	2,905	2,581	1,625	9,419	33,423
Basic slag	79,057	91,673	110,318	114,958	105,808	80,459
Ammonium phosphate	90	609	4,680	8,123	10,834	11,713
Kenya—						
Superphosphates, basic slag, etc.	20,954	10,316	15,736	14,795	14,094	13,909
Mauritius—						
Phosphatic guano	2,425	5,271	7,175	10,237	8,292	9,620
Superphosphates, basic slag, etc.	167	767	1,913	914	1,883	2,879
Nigeria—						
Phosphate-rock.. ..	238	487	2	1	54	444
Superphosphates	112	117	511	411	436	308
Other phosphatic fertilizers	1,401	897	987	3,078	751	1,035
Rhodesia and Nyasaland—						
Superphosphates	52,729	41,178	60,777	39,933	14,140	17,296
Tanganyika—						
Superphosphates, basic slag, etc.	545	1,433	2,246	742	785	1,386
Uganda—						
Superphosphates, basic slag, etc.	446	648	686	1,711	1,467	2,378
Union of South Africa—						
Phosphate-rock.. ..	352,935	471,712	405,021	389,659	338,797	377,691
Phosphatic guano	9	—	91	—	500	—
Superphosphates	40,792	34,947	4,859	1,385	1,204	1,741
Basic slag	30,536	20,862	45,346	51,721	42,752	39,658
Canada—						
Phosphate-rock.. ..	525,186	560,400	645,732	664,432	711,663	841,070
Superphosphates, triple do. other	31,539	34,364	40,518	39,507	57,436	74,234
Basic slag	157,092	164,278	146,202	154,872	126,913	106,865
Other phosphatic fertilizers	—	1,000	500	750	350	500
Other phosphatic fertilizers	2,369	1,575	2,527	2,969	3,558	5,575
British West Indies—						
Jamaica—						
Phosphatic fertilizers	1,044	687	2,800	r 2,383	1,409	1,588
St. Vincent—						
Superphosphates	121	67	62	84	150	n.a.
Trinidad and Tobago—						
Superphosphates	1,610	1,734	2,430	1,305	1,377	1,815
Basic slag	19	20	20	30	20	—
British Guiana—						
Superphosphates, basic slag, etc.	3,971	4,681	4,265	4,593	2,016	6,779
Ceylon—						
Phosphate-rock.. ..	28,290	37,973	28,470	19,397	60,077	72,119
Superphosphates	2,961	3,443	8,050	1,296	3,258	966
Basic slag	45	168	224	183	184	135
Other phosphatic fertilizers	14,483	15,929	25,595	26,125	4,644	74
Cyprus—						
Superphosphates	19,820	38,567	38,633	31,201	31,124	35,140
Basic slag, etc.			102	—	1,059	340
Hong Kong—						
Phosphatic fertilizers	177	357	169	29,062	130	104

IMPORTS OF PHOSPHATES, ETC. (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES (cont.)						
India—						
Phosphate-rock.. ..	(c) 30,326	45,874	115,895	121,260	188,864	(b)249,833
Other phosphates ..	(d) 33,657	9,800	47	4,480	264	(b) 4,799
Superphosphates ..	574	260	3,687	266	5,348	(b) 596
Ammonium phosphate ..	300	—	10	47	228	(b) 5
Malaya—						
Phosphate-rock.. ..	—	1,000	31,163	29,879	65,637	64,879
Phosphatic fertilizers ..	3,790	6,437	10,843	3,122	3,334	18,050
North Borneo—						
Phosphate-rock.. ..	84	284	177	656	134	327
Superphosphates ..	23	5	27	41	243	33
Sarawak—						
Natural phosphates ..	41	5	61	484	4	1
Phosphatic fertilizers ..	1,592	787	1,059	2,069	3,138	5,026
Australia (a)—						
Phosphate-rock.. ..	1,086,884	1,418,524	1,321,607	1,273,766	1,353,739	1,322,173
Superphosphates ..	—	—	150	1	—	—
New Zealand—						
Phosphate-rock.. ..	578,471	606,150	540,579	486,292	464,873	608,202
Phosphatic guano ..	—	—	—	8,500	—	—
Superphosphates ..	7,517	3,234	256	392	70	—
Basic slag ..	66,513	61,301	49,581	41,648	25,344	29,670
Other phosphates ..	120	329	509	1,968	4,812	2,527
Irish Republic—						
Phosphate-rock.. ..	107,300	114,173	73,387	121,544	135,853	163,057
Superphosphates ..	63,631	56,744	66,998	66,270	77,697	87,210
Basic slag ..	48,924	48,348	44,337	38,358	85,252	49,950
Other phosphatic fertilizers ..	6,392	563	12,335	10,062	18,415	11,226
OTHER COUNTRIES						
Austria—						
Phosphate-rock.. ..	57,217	20,507	39,373	69,154	109,921	121,905
Superphosphates ..	73,945	109,488	135,000	114,363	(f) 72,437	(f) 76,495
Basic slag ..	131,836	154,274	199,718	224,285	242,540	267,189
Belgium-Luxemburg E. U.—						
Phosphate-rock.. ..	387,523	444,246	475,986	571,697	609,667	642,026
Superphosphates ..	—	46	—	4	71	255
Di-calcium phosphates ..	29	3	2	6	8	137
Basic slag ..	154	68	508	57	352	100
Czechoslovakia—						
Phosphatic fertilizers (e)	98,000	91,000	94,000	120,000	124,000	146,000
Denmark—						
Phosphate-rock.. ..	237,303	279,086	265,813	269,738	279,544	259,561
Superphosphates ..	38,195	109,734	126,839	97,095	99,666	167,710
Basic slag ..	4,228	5,563	5,163	7,229	7,818	6,024
Finland—						
Phosphate-rock.. ..	152,310	180,878	303,001	234,198	238,866	231,786
Superphosphates ..	53,059	19,643	—	—	15,843	68,293
Basic slag ..	4,194	18,702	—	6	25,194	24,292
Di-calcium phosphates ..	10,261	11,723	8,701	11,217	12,858	7,689
France—						
Phosphate-rock.. ..	1,450,048	1,437,221	1,412,789	1,763,638	1,655,983	1,707,582
Aluminium phosphates ..	n.a.	25,356	65,528	71,092	71,497	103,067
Superphosphates ..	29,626	46,831	55,643	68,353	101,728	221,547

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

(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	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
France—cont.						
Calcined phosphates ..	<i>n.a.</i>	34,564	52,128	36,173	15,796	15,427
Basic slag ..	83,624	274,968	273,900	248,199	284,680	428,223
Di-calcium phosphates	7,649	12,249	19,597	19,412	10,476	12,724
Germany (Federal)—						
Phosphate-rock, etc. ..	941,486	889,700	1,047,246	1,216,183	1,433,115	1,616,786
Superphosphates ..	1,142	1,978	2,559	2,448	5,197	6,303
Basic slag ..	322,013	230,250	409,429	373,154	592,224	866,335
Germany (East) (a)—						
Phosphatic fertilizers ..	49,626	59,298	58,001	61,250	62,450	56,164
Greece—						
Phosphate-rock ..	153,135	136,474	151,007	186,891	178,902	180,675
Other phosphatic fertilizers ..	21,629	13,390	6,866	29,481	30,811	8,684
Hungary—						
Phosphate-rock ..	78,094	112,383	74,471	157,618	135,751	174,807
Iceland—						
Superphosphates ..	3,908	5,906	6,063	7,972	8,485	8,120
Italy—						
Phosphate-rock ..	1,287,086	1,450,580	1,286,161	1,303,749	1,180,856	1,458,775
Superphosphates ..	685	2	353	195	7,234	8,120
Basic slag ..	82,519	94,199	68,324	64,702	56,536	2,240
Netherlands—						
Phosphate-rock ..	520,127	508,319	549,133	616,175	605,289	719,800
Superphosphates ..	1,178	125	122	86	2,519	30,149
Basic slag ..	294,666	292,415	305,736	289,559	302,205	270,668
Di-calcium phosphates	16,340	27,697	23,250	20,787	26,114	14,456
Ammonium phosphates	47	5,886	5,644	10,563	6,515	<i>n.a.</i>
Norway—						
Phosphate-rock ..	92,501	123,182	148,239	122,274	135,300	132,590
Superphosphates ..	14,490	—	—	—	—	—
Basic slag ..	4,881	6,182	6,579	6,816	8,111	8,444
Portugal—						
Phosphate-rock ..	228,330	252,625	245,078	218,674	245,200	251,360
Superphosphates ..	6,525	—	2,461	4,183	—	—
Basic slag ..	18,862	12,379	13,760	22,083	22,811	13,028
Roumania—						
Phosphate-rock (a) ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	25,600	54,300	71,700
Spain—						
Phosphate-rock ..	693,574	824,966	833,945	920,418	1,005,055	<i>n.a.</i>
Superphosphates, etc. ..	10	2,921	1	—	—	<i>n.a.</i>
Basic slag ..	46,901	55,397	63,632	49,875	86,192	<i>n.a.</i>
Sweden—						
Phosphate-rock ..	307,461	344,657	346,338	294,506	331,982	339,063
Superphosphates ..	—	706	1,847	1,649	3,026	13,085
Di-calcium phosphates	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	10,310	12,466
Switzerland—						
Phosphate-rock ..	(b) 24,000	(b) 24,000	(b) 24,000	(b) 22,000	(b) 23,000	37,054
Superphosphates, etc. ..	12,835	12,112	12,941	14,211	13,759	10,414
Basic slag ..	160,315	150,643	158,493	162,502	168,522	168,258
Yugoslavia—						
Phosphate-rock ..	74,821	91,337	159,294	144,736	157,259	197,183
Superphosphates ..	2,140	6,855	90,397	152,042	162,492	54,511
Basic slag ..	74,091	42,620	82,235	104,746	179,035	54,888
Algeria—						
Superphosphates ..	8,135	5,828	7,122	9,961	8,604	12,216
Basic slag ..	3,080	1,513	2,472	2,711	1,910	3,263
Di-calcium phosphates	958	1,628	2,194	3,888	2,618	1,736
Cameroun—						
Phosphatic fertilizers ..	559	270	257	617	340	93
Canary Islands—						
Phosphate-rock ..	3,140	9,891	18,577	16,723	16,573	<i>n.a.</i>

(a) P_2O_5 content.

(b) Estimated on imports from producing countries.

IMPORTS OF PHOSPHATES, ETC. (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Malagasy Republic— Phosphatic fertilizers ..	329	1,641	1,101	720	430	742
Morocco— Superphosphates ..	5,330	930	90	6	586	39
Di-calcium phosphates ..	2,396	409	488	3,124	4,378	6,066
Tunisia— Superphosphates ..	49	374	2,564	9	738	236
Costa Rica— Phosphatic fertilizers ..	2,700	3,967	16,874	18,908	27,160	34,725
Cuba— Superphosphates ..	29,272	59,656	53,748	38,623	<i>n.a.</i>	<i>n.a.</i>
Calcium phosphates ..	25,931	6,088	6,615	14,779	<i>n.a.</i>	<i>n.a.</i>
Dominican Republic— Superphosphates ..	2,813	4,594	9,355	5,060	8,154	3,749
Mexico— Phosphate-rock ..	<i>n.a.</i>	50,800	62,553	37,123	48,674	6,527
Superphosphates ..	13,348	10,408	12,553	7,298	11,639	20,059
Ammonium phosphates ..	<i>n.a.</i>	9,903	12,471	15,773	13,371	14,893
Nicaragua— Phosphatic fertilizers ..	74	641	1,256	751	732	212
United States— Phosphate-rock ..	117,256	109,891	109,546	108,182	139,891	129,290
Superphosphates— Single ..	456	272	71	83	128	1,112
Concentrated ..	812	39	598	495	856	915
Ammoniated ..	416	642	433	1,329	2,733	237
Basic slag ..	2,281	5,049	111	160	237	—
Di-calcium phosphates ..	1,172	3,556	1,685	4,078	3,287	5,164
Ammonium phosphates ..	209,396	170,155	151,313	141,716	192,596	107,102
Brazil— Phosphate-rock ..	110,533	116,894	109,878	88,146	89,191	66,836
Superphosphates— Single ..	95,965	104,175	55,500	40,619	12,454	8,655
Concentrated ..			56,776	105,958	49,327	61,850
Calcined phosphates ..	419	830	687	3,314	362	1,062
Basic slag ..	8,640	9,156	12,676	10,228	3,083	2,896
Chile— Superphosphates ..	—	1,574	1,968	<i>r</i> 8,356	13,405	<i>n.a.</i>
Di-calcium phosphates ..	5,883	15,003	11,692	<i>r</i> 17,250	21,057	<i>n.a.</i>
Colombia— Phosphate-rock ..	1,098	499	3,656	1,494	1,397	2,396
Superphosphates ..	7,683	15,302	27,898	11,572	1,578	8,477
Di-calcium phosphates ..	26,103	26,321	26,362	24,189	21,101	21,965
Peru— Phosphate-rock ..	2,247	—	2,936	1,427	11,530	14,461
Phosphatic fertilizers ..	5,930	8,662	6,219	998	72	1,975
Venezuela— Calcium phosphates and superphosphates ..	1,892	8,502	9,876	4,918	9,106	7,597
Formosa— Apatite ..	28,981	51,835	73,059	63,817	79,713	79,540
Phosphatic fertilizers ..	51,190	35,235	8,350	54,377	78,254	44,772
Indonesia— Superphosphates ..	11,059	16,250	24,959	26,114	18,328	22,204
Phosphatic fertilizers ..	18,743	23,713	13,221	13,085	3,678	24,268
Japan— Phosphate-rock ..	1,620,459	1,659,848	1,532,086	1,483,589	1,695,122	2,013,932
Jordan— Phosphatic fertilizers ..	<i>n.a.</i>	685	2,130	1,140	1,057	2,811
Korea (South)— Superphosphates ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	144,421	83,305	121,925

IMPORTS OF PHOSPHATES, ETC. (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Lebanon—						
Phosphatic fertilizers ..	7,233	19,351	14,267	10,501	17,836	9,566
Philippine Republic—						
Phosphate-rock ..	<i>n.a.</i>	39	<i>n.a.</i>	9,693	12,489	6,248
Superphosphates ..	2,556	2,899	3,005	897	498	—
Ammonium phosphate	13,487	11,247	39,840	2,781	24,364	21,301
Other phosphatic fertilizers	<i>n.a.</i>	562	<i>n.a.</i>	18,702	7,895	7,720
Syria—						
Phosphatic fertilizers ..	3,494	4,641	4,282	4,615	4,274	14,884
Thailand—						
Superphosphates ..	<i>n.a.</i>	692	689	569	1,038	858
Phosphatic fertilizers ..	2,190	661	4,191	3,265	10,941	7,519
Turkey—						
Phosphate-rock ..	35,846	29,691	5,920	12,421	31,051	18,433
Vietnam (South)—						
Phosphatic fertilizers ..	1,628	5,504	2,318	5,016	5,752	<i>n.a.</i>

PLATINUM
PRODUCTION OF PLATINUM METALS

Troy ounces

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Sierra Leone—						
Crude platinum ..	—	—	(a) 5	(a) 8	—	—
Union of South Africa—						
Crude (<i>Pt</i> metals content)	109,267	124,078	} 603,704	(d) 300,000	(d) 375,000	(d) 400,000
Matte (<i>Pt</i> metals content)	272,465	360,496				
Osmiridium (crude) (b)	7,095	6,696	5,361	r (f) 4,873	(f) 4,843	n.a.
Canada—						
Recovered from Ontario nickel-copper ores (c)—						
Platinum	170,494	151,357	199,565	146,092	150,382	221,832
Other platinum metals	214,252	163,461	216,582	154,366	177,713	238,489
Australia—						
New South Wales—						
Concentrates (<i>Pt</i> content)	7	18	17	22	—	4
Tasmania—						
Osmiridium	21	25	r 67	42	3	—
New Guinea—						
Platinum	10	9	14	28	19	4
OTHER COUNTRIES						
U.S.S.R.—						
Crude platinum (d) ..	250,000	250,000	250,000	250,000	250,000	275,000
Congo Republic—						
Platinum	—	25	25	32	—	—
Palladium	—	135	300	129	—	—
Ethiopia—						
Crude platinum	251	244	248	180	68	189
United States (e)—						
Crude platinum	15,377	16,147	13,838	10,656	} 15,015	} 20,366
New platinum metals recovered by refineries from gold and copper ores of domestic origin—						
Platinum	1,810	1,466	1,172	1,009		
Palladium	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):

	1955	1956	1957	1958	1959	1960
Osmium	2,003	2,189	2,068	n.a.	n.a.	n.a.
Iridium	1,797	1,979	1,837	n.a.	n.a.	n.a.
Ruthenium	881	956	877	n.a.	n.a.	n.a.
Platinum	751	863	718	n.a.	n.a.	n.a.
Rhodium	62	64	81	n.a.	n.a.	n.a.

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

(d) United States Bureau of Mines' estimate.

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

	1955	1956	1957	1958	1959	1960
Platinum	32,901	60,916	49,022	36,426	58,945	33,861
Palladium	26,124	37,774	31,294	38,883	68,279	35,465
Iridium	1,499	1,751	1,406	1,223	1,188	914
Other platinum metals	3,812	5,828	5,799	4,982	7,584	1,617

(f) Sales.

PRODUCTION OF PLATINUM METALS (cont.)

Troy ounces

Producing Country	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES (cont.)						
Colombia (a)— Crude platinum ..	27,526	26,215	19,830	16,036	18,322	16,923
Japan— Platinum	628	483	354	442	470	1,396
Palladium	221	218	233	240	324	563
Iridium	9	15	3,000	600	—	n.a.
WORLD'S TOTAL (b)	1,080,000	1,110,000	1,320,000	900,000	990,000	1,200,000

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

(b) Estimated.

EXPORTS OF PLATINUM*

Troy ounces

Exporting Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Platinum—						
Ingots, grain and powder	139,710	156,317	268,318	249,860	278,534	311,617
Other kinds (a)	211,728	204,900	144,334	25,617	34,740	37,387
Other platinum metals and alloys	271,879	285,408	191,544	146,064	145,840	308,538
Sierra Leone—						
Crude platinum	—	—	5	8	—	—
Union of South Africa—						
Osmiridium	6,320	37,835	6,138	4,174	<i>n.a.</i>	<i>n.a.</i>
Crude platinum metals	363,025	286,770	364,109	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Canada—						
Concentrates, etc. (b) ..	(£5,311,105)	(£7,480,590)	(£6,581,378)	(£3,707,218)	357,898	403,240
Scrap	189	3,545	1,250	295	995	701
Hong Kong—						
Platinum and platinum group metals	(£131,664)	(£24,095)	(£12,448)	(£923)	—	251
Australia (c)—						
Platinum and platinum group metals	410	765	569	862	57	369
OTHER COUNTRIES						
Austria—						
Unwrought platinum and platinum metals	5,884	4,437	4,051	6,141	611	12,700
Denmark—						
Rods, sheets, wire, scrap, etc.	354	193	900	804	—	—
France—						
Unwrought platinum and scrap (a)	24,274	23,374	55,717	10,931	12,828	4,861
Palladium (inc. scrap)(a)	52,213	75,136	12,057	44,529	9,227	4,694
Drawn or rolled platinum	39,385	11,896	85,810	8,263	8,713	7,052
Germany (Federal)—						
Platinum metals (a)	29,518	32,350	39,376	129,526	69,145	61,491
Italy—						
Unwrought platinum	—	1,447	64	5,948	—	3,086
Netherlands—						
Unwrought platinum	154,645	327,359	639,800	75,393	63,787	5,787
Drawn or rolled	160,046	159,403	89,186	54,045	112,881	38,420
Norway—						
Platinum (incl. scrap)	10,385	15,238	9,034	13,568	21,380	10,545
Sweden—						
Unwrought platinum	10,192	8,327	8,423	262,800	<i>n.a.</i>	<i>n.a.</i>
Switzerland—						
Unwrought platinum	1,190	4,951	7,845	3,215	2,186	3,054

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

(a) Including alloys.

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

(c) Years ended June 30 of that stated.

EXPORTS OF PLATINUM (cont.)

Troy ounces

Exporting Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES (cont.)						
U.S.S.R.	(a)	(a)	(a)	(a)	(a)	(a)
United States—						
Ores, etc. (<i>Pt content</i>) . .	—	—	—	} 35,075	18,560	49,497
Ingots, sheets, wire, etc.	17,073	23,823	17,199			
Palladium, rhodium, etc. and alloys	11,895	18,249	23,155	12,293	12,845	15,652
Colombia—						
Platinum	27,526	26,215	19,830	16,036	18,322	16,923

(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):

	1955	1956	1957	1958	1959	1960
United Kingdom	30,012	14,452	28,074	52,529	47,790	23,357
Germany (Federal)	12,829	13,655	35,289	107,433	108,156	127,778
Netherlands	160,947	157,796	52,727	24,499	20,834	20,448
United States	16,802	42,381	24,810	93,583	130,413	111,105

IMPORTS OF PLATINUM*

Troy ounces

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom (a)—						
Platinum—						
Ingots, grain and powder	66,517	43,916	130,569	70,608	50,072	39,909
Other kinds including alloys	(b) 3,819	806	46,929	29,267	51,683	36,124
Other platinum metals and alloys	23,823	55,019				
Union of South Africa—						
Platinum	55	34	352	541	512	1,243
Canada—						
Platinum and platinum group metals	(£1,457,916)	(£1,730,456)	(£1,981,134)	(£1,372,800)	(£821,828)	(£1,671,639)
Hong Kong—						
Platinum and platinum group metals	(£95,579)	(£101,784)	(£110,444)	(£114,722)	6,714	5,470
India—						
Platinum	n.a.	n.a.	2,450	2,176	2,135	(d) 1,607
Malaya—						
Unwrought platinum	315	188	289	92	12,857	38
Australia (c)—						
Platinum bars, rods, sheets, etc.	4,378	881	515	63	229	604
Bars, rods, sheets, etc. of other platinum metals		1,532	984	1,872	666	2,017
Platinum metal powder		987	927	1,926	1,102	5,780
New Zealand—						
Platinum and platinum group metals	1,312	1,660	1,200	1,679	1,415	2,027
OTHER COUNTRIES						
Austria—						
Unwrought platinum and platinum metals	6,044	4,501	3,601	2,315	1,672	7,877
Denmark—						
Rods, sheets, wire and scrap	1,061	1,350	1,254	1,736	1,318	2,058
Finland—						
Unwrought platinum etc.	691	948	871	1,653	5,057	6,398
France—						
Unwrought platinum, alloys and scrap	106,580	70,860	162,522	56,360	68,642	63,057
Unwrought palladium, alloys and scrap	101,146	106,901	42,471	60,122	77,676	29,096
Drawn or rolled platinum	675	450	1,093	96	64	378
Germany (Federal)—						
Platinum metals and alloys	147,000	103,222	124,021	194,188	187,344	224,910

*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: 1955—£5,284,797; 1956—£7,346,377; 1957—£6,445,061; 1958—£5,419,429; 1959—£4,331,740; 1960—£5,438,936.

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):

	1955	1956	1957	1958	1959	1960
Crude platinum metals	363,025	286,770	364,109	n.a.	n.a.	n.a.
Osmiridium	6,320	37,835	6,138	4,174	n.a.	n.a.

(b) Excess of re-exports.

(d) Years ended March 31 following that stated.

(c) Years ended June 30 of that stated.

IMPORTS OF PLATINUM (cont.)

Troy ounces

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Italy—						
Unwrought platinum ..	6,044	6,076	6,462	8,198	11,381	15,593
Drawn or rolled ..	1,575	5,080	3,440	2,990	4,790	7,588
Other platinum metals	5,787	5,080	19,226	23,888	15,175	7,330
Netherlands—						
Unwrought platinum ..	306,461	359,477	105,454	64,559	150,433	57,646
Drawn or rolled ..	22,088	4,855	23,502	7,073	8,777	6,623
Norway—						
Unwrought platinum ..	2,817	1,640	2,347	2,476	2,765	6,945
Drawn or rolled ..	243	322	129	261	22,698	1,318
Portugal—						
Sheets, wire, etc. ..	22	187	31	236	144	12
Spain—						
Bars, sheets, wire, etc. . .	1	51	19	39	965	<i>n.a.</i>
Sweden—						
Unwrought platinum ..	675	96	739	3,408	<i>n.a.</i>	<i>n.a.</i>
Switzerland—						
Unwrought platinum ..	10,610	27,875	21,702	15,272	23,599	24,402
Yugoslavia—						
Unwrought platinum ..	354	4,276	5,080	13,214	9,163	4,115
Egypt—						
Ingots, bars, sheets, etc.	305	66	—	10	<i>n.a.</i>	<i>n.a.</i>
Cuba—						
Ingots and bars ..	289	64	—	64	<i>n.a.</i>	<i>n.a.</i>
Palladium	161	257	161	2,765	<i>n.a.</i>	<i>n.a.</i>
Mexico—						
Platinum	409	80	72	249	263	204
Palladium	<i>n.a.</i>	129	285	1,256	2,241	2,063
United States—						
Ore (a)	407	—	1,572	—	503	401
Grains and nuggets (a) ..	40,713	34,016	26,328	21,635	77,763	30,338
Sponge and scrap (a) (b)	177,832	152,413	128,975	112,739	58,764	134,122
Ingots, bars, sheets(a) (b)	276,755	289,516	179,349	148,191	205,890	107,273
Iridium	271	2,323	1,431	1,156	7,772	4,253
Osmium and osmiridium	1,999	1,318	2,977	1,595	3,344	277
Palladium	487,174	530,686	327,558	360,077	610,740	368,256
Rhodium and ruthenium	20,744	22,543	18,493	25,038	44,021	35,719
Brazil—						
Unwrought platinum ..	207	591	1,270	1,350	96	36
Palladium	5	53	305	1,093	—	23
Colombia—						
Unwrought platinum ..	752	1,858	—	—	—	129
Uruguay—						
Platinum metals	<i>n.a.</i>	<i>n.a.</i>	193	12	148	597
Venezuela—						
Unwrought platinum ..	579	<i>n.a.</i>	2,090	9,099	1,575	53,049
Japan (c)—						
Platinum	19,192	27,776	32,978	60,401	74,355	73,155
Palladium	10,715	15,740	22,119	32,526	46,296	56,465
Rhodium	518	760	767	870	2,530	2,199
Iridium, etc.	503	762	3,337	1,224	1,610	1,827
Lebanon—						
Unwrought platinum ..	2,797	2,411	3,472	5,754	4,783	3,903
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:

	1955	1956	1957	1958	1959	1960
Sponge and scrap ..	8,362	6,234	2,043	13,167	5,666	3,905
Platinum metal ..	450,270	436,757	301,611	247,763	260,524	238,307

(c) Including alloys for year 1955.

POTASH MINERALS
PRODUCTION OF POTASH

Producing Country and Description	K ₂ O Content or Equivalent						1960	1959	1958	1957	1956	1955
	1955	1956	1957	1958	1959	1960						
COMMONWEALTH COUNTRIES												
Canada—	—	—	—	—	—	—	—	—	—	—	—	—
Potash salts ..	—	—	—	n.a.	—	—	—	—	—	—	—	41,500
OTHER COUNTRIES												
France (b)—												
Sylvinite, 12-22% K ₂ O												
Fertilizer salts												
30-40% K ₂ O ..	7,702,675	8,376,150	8,695,655	9,230,061	9,382,550	9,788,231						
Chloride												
50% K ₂ O and over												
Germany—												
Federal Republic—												
Kainite, sylvinite, etc.	15,853,000	15,299,000	15,944,000	16,401,000	17,147,000	18,348,000	1,988,000	1,956,000	1,987,000	2,110,000	2,279,000	2,279,000
Eastern—												
Potash salts ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	1,527,000	1,579,000	1,624,000	1,618,000	1,640,000	1,640,000
Italy—												
Crude potash salts	n.a.	n.a.	1,088	64,903	75,208	343,000	n.a.	r 150	r 8,700	10,100	46,000	46,000
Netherlands (a)—												
Potassium chloride (over												
45% K ₂ O) ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	400	400	400	600	600	600
Potassium sulphate ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	200	100	200	200	200	200

(a) Years ended June 30 of that stated.

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

PRODUCTION OF POTASH (cont.)

Long tons

Producing Country and Description	K ₂ O Content or Equivalent					
	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES (cont.)						
Poland—						
Potash salts ..	n.a.	n.a.	n.a.	n.a.	n.a.	24,600
Spain—						
Carnallite, sylvinite, etc.	1,262,425	1,421,850	1,392,816	1,516,412	1,570,962	1,642,926
U.S.S.R. (a)—						
Potash salts ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
United States—						
Potash salts (b) ..	3,137,000	3,285,000	3,429,000	3,250,000	3,601,000	3,993,000
Chile—						
Chloride ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Israel—						
Chloride ..	14,000	44,981	77,000	108,000	108,000	c 15,0000
Japan—						
Alunite ..	6,066	6,245	6,533	6,494	2,747	2,470
WORLD'S TOTAL (c) ..	7,500,000	7,800,000	8,100,000	8,300,000	8,700,000	9,300,000

(a) United States Bureau of Mines' estimate.

(b) Marketable production.

(c) Estimated.

EXPORTS OF POTASH SALTS

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Nitrate	1,007	} 558	734	125	25	48
Sulphate	81					
Other compounds ..	r 2,975		2,857	3,079	2,846	3,678	4,148
Hong Kong—						
Nitrate	142	213	320	368	356	190
Chlorate	401	292	239	373	265	242
India—						
Nitrate	111	148	6	16	44	(a) 39
Malaya—						
Fertilizer salts ..	11	28	47	42	68	95
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Fertilizer salts ..	8,186	1,960	930	765	212	2,029
Carbonate	1,784	2,532	1,980	2,260	2,754	2,775
Caustic potash ..	4,170	3,012	3,472	5,022	5,918	n.a.
Chloride	530,625	662,015	681,632	714,323	701,031	766,860
Chlorates	3	—	—	1	—	—
Nitrate	49	21	33	32	25	36
Sulphate	192,745	189,289	201,743	240,532	236,885	265,584
Finland—						
Chlorate	843	378	119	27	109	48
France—						
Sylvinite, etc. ..	296,803	339,076	339,216	368,607	314,330	276,792
Carbonate	7,514	7,357	9,140	7,265	9,123	12,165
Caustic potash ..	11,127	8,248	9,325	8,114	13,139	10,126
Chlorate	1,403	549	539	948	932	903
Chloride	} 706,907	726,423	769,935	795,688	800,778	1,094,430
Sulphate		197,581	185,386	185,927	231,269	38,739
Nitrate		3,418	3,072	2,876	2,149	1,653
Germany (Federal)—						
Fertilizer salts ..	1,260,171	1,577,232	1,347,538	1,233,852	1,370,091	1,568,379
Carbonate	5,497	4,289	3,584	4,260	5,432	6,864
Caustic potash ..	4,130	3,227	3,556	3,791	n.a.	n.a.
Chlorate	91	159	760	233	61	351
Nitrate	7,090	6,801	8,476	11,790	9,633	13,082
Germany (East)—						
Fertilizer salts						
(K ₂ O content) ..	985,000	951,000	961,000	970,000	1,025,000	1,075,000
Carbonate	9,130	9,462	9,918	10,543	9,511	8,753
Caustic potash ..	7,308	7,490	7,731	8,374	7,144	6,563
Italy—						
Nitrate	311	111	12	264	235	606
Netherlands—						
Carbonate	227	344	1,224	274	220	101
Caustic potash ..	4	17	6	23	7	17
Chloride	983	670	580	779	916	1,267
Nitrate	18	51	31	65	53	68
Sulphate	67	54	17	98	405	362
Portugal—						
Chloride	204	884	843	200	27	850
Spain—						
Chloride	237,775	251,375	323,462	260,495	290,861	354,200
Chlorate	31	13	124	—	—	n.a.
Sweden—						
Carbonate	41	47	18	4	—	4
Caustic potash ..	2,118	2,238	1,723	1,918	2,441	2,703

(a) Years ended March 31 following that stated.

EXPORTS OF POTASH SALTS (cont.)

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Switzerland—						
Nitrate (crude) ..	5	18	3,946	2,927	15	—
U.S.S.R.—						
Fertilizer salts ..	45,300	105,400	217,700	388,400	431,800	619,000
United States—						
Chloride ..	175,884	300,721	358,565	414,969	471,348	698,323
Other fertilizer salts ..	22,776	48,133	51,880	28,607	28,653	29,821
Caustic potash ..	2,396	2,853	2,958	3,299	3,362	3,262
Other compounds ..	3,323	2,980	3,765	5,301	6,746	11,296
Chile—						
Nitrate ..	66,975	55,305	51,313	54,635	86,018	53,191
Israel—						
Chloride ..	7,923	15,683	75,267	77,917	102,571	118,549
Japan—						
Chlorate ..	491	355	427	766	680	539
Chloride ..	} n.a.	} 492	2,931	1,005	1,498	1,850
Sulphate ..			874	24	59	2,291

IMPORTS OF POTASH SALTS

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Fertilizer salts	35,440	36,962	36,693	38,378	43,564	43,206
Carbonate	5,341	4,269	5,367	5,168	4,819	6,943
Caustic potash and lyes	2,499	1,340	1,550	1,660	1,833	2,037
Chlorate	1,227	1,158	1,179	1,106	960	1,099
Chloride	509,927	552,653	537,290	581,713	610,400	713,322
Nitrate	1,281	2,354	1,205	2,639	2,740	2,698
Sulphate	13,927	12,915	15,642	16,143	25,026	22,861
Other compounds	825	1,120	1,841	1,073	7,046	43,855
Ghana—						
Fertilizer salts	49	205	120	92	254	510
Kenya—						
Fertilizer salts	425	376	796	11	—	80
Mauritius—						
Fertilizer salts	5,102	5,054	7,147	7,751	8,527	9,296
Nigeria—						
Fertilizer salts	711	1,647	964	1,040	703	1,799
Rhodesia and Nyasaland—						
Fertilizer salts	19,333	16,158	19,112	16,247	22,987	28,958
Compounds	285	201	406	267	353	529
Tanganyika—						
Fertilizer salts	247	544	727	610	536	609
Uganda—						
Fertilizer salts	138	379	21	305	191	136
Union of South Africa—						
Fertilizer salts	3,709	3,655	6,811	3,085	5,723	55,835
Nitrate	168	182	243	195	199	329
Caustic potash	301	284	380	349	317	382
Chloride	31,769	36,628	31,739	43,358	57,449	2,992
Other compounds	1,150	1,270	1,127	1,046	878	1,235
Canada—						
Fertilizer salts	—	18	—	—	—	—
Caustic potash	2,206	2,627	3,260	3,946	3,788	3,937
Chlorate	59	56	64	36	39	35
Crude chloride	123,654	117,226	122,005	117,236	85,089	130,969
Nitrate	554	487	467	607	662	662
Crude sulphate	12,461	14,422	15,823	13,874	22,091	21,378
Other compounds	2,059	2,475	3,376	3,599	5,091	6,321
British West Indies—						
Barbados—						
Fertilizer salts	3,160	4,375	6,570	2,881	4,325	3,585
Jamaica—						
Fertilizer salts	1,612	3,421	3,641	3,848	5,809	4,539
St. Vincent—						
Chloride	118	85	68	519	178	<i>n.a.</i>
Trinidad and Tobago—						
Chloride and sulphate	2,058	1,790	2,966	1,978	2,758	1,794
British Guiana—						
Fertilizer salts	<i>n.a.</i>	1,898	1,604	3,261	4,663	2,355
Ceylon—						
Kainite and sylvinite ..	699	500	500	50	331	245
Chloride	26,751	45,916	38,345	35,080	42,596	39,054
Nitrate of potash refuse	6	19	6	2	3	28
Sulphate	275	1,060	695	400	870	2,750
Hong Kong—						
Nitrate	564	664	595	1,079	621	378
Chlorate	334	223	273	316	371	281

IMPORTS OF POTASH SALTS (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES (cont.)						
India—						
Fertilizer salts	7,107	7,674	— 835 454 40 13,973	6,011 652 703 — 2,983	— 1,015 1,553 5 10,107	(a) — (a) 630 (a) 2,222 (a) 11 (a) 10,847
Carbonate						
Caustic potash						
Nitrate						
Sulphate						
Chlorate						
Chloride	1,050	808	1,158	450	542	(a) 7
Malaya—	14,026	15,927	7,373	25,038	52,544	(a) 22,535
Fertilizer salts	7,865	5,553	9,484	10,951	13,865	16,342
Pakistan—						
Chlorate	(a) 1,562	203	424	538	300	516
Other compounds	(a) 261	64	497	193	204	766
Australia (b)—						
Carbonate	628	1,008	622	771	863	1,117
Caustic potash	765	1,021	1,349	636	958	981
Chloride	23,933	35,588	34,399	48,786	38,044	31,573
Nitrate	297	368	347	470	354	451
Sulphate	3,481	3,487	3,845	4,793	5,708	4,574
Other compounds	429	407	462	543	827	1,069
New Zealand—						
Chloride	37,420	39,795	38,908	52,118	73,025	82,383
Nitrate	101	85	80	138	144	128
Sulphate	2,346	2,229	2,616	2,903	2,661	3,422
Other fertilizer salts	1,775	1,212	—	75	13	140
Compounds other than fertilizer	166	267	314	294	317	300
Irish Republic—						
Fertilizer salts	613	r 799	670	1,089	1,653	1,753
Chloride	82,178	68,736	100,574	93,133	108,747	107,401
Other compounds	429	474	415	542	538	604
OTHER COUNTRIES						
Austria—						
Fertilizer salts	128,571	141,112	176,829	202,669	168,565	177,898
Caustic potash	356	305	369	431	358	429
Carbonate	491	396	846	786	908	763
Chloride	321	263	168	128	8,992	6,098
Nitrate	381	274	252	264	279	367
Sulphate	297	119	3	150	3,718	12,624
Belgium-Luxemburg						
E.U.—						
Fertilizer salts	162,273	182,799	201,948	193,424	158,864	185,644
Carbonate	613	825	567	536	663	1,084
Caustic potash	143	605	359	614	624	428
Chlorates	556	641	607	423	542	544
Chloride	931,565	1,082,758	1,094,255	1,100,611	1,153,374	1,165,682
Nitrate	1,741	1,651	1,731	1,962	2,053	2,007
Sulphate	15,639	20,315	15,243	21,511	10,932	4,106
Czechoslovakia—						
Fertilizer salts (K ₂ O content)	n.a.	165,000	184,000	214,000	229,000	213,900
Denmark—						
Carbonate	376	397	329	378	317	304
Caustic potash	1,046	1,036	895	809	943	1,148

(a) Years ended March 31 following that stated.

(b) Years ended June 30 of that stated.

IMPORTS OF POTASH SALTS (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Denmark (cont.)—						
Chlorate	168	133	143	116	136	125
Chloride	275,376	341,772	312,810	294,454	303,945	326,710
Nitrate	742	949	913	956	843	1,188
Sulphate	2,256	2,162	1,883	1,702	1,434	1,874
Finland—						
Fertilizer salts	94,986	109,857	113,788	76,668	102,769	170,500
Carbonate	295	289	300	258	332	415
Caustic potash	118	157	123	226	188	168
Chloride	3,794	1,476	1,974	1,481	1,501	n.a.
Nitrate	132	43	114	115	249	140
Sulphate	8,395	6,547	986	1,481	1,473	8
France—						
Fertilizer salts	14,172	793	5,489	19,080	10,006	19,453
Caustic potash	34	48	42	38	47	113
Germany (Federal)—						
Fertilizer salts	—	3	—	—	22	27,412
Carbonate	5	6	—	—	70	409
Caustic potash	205	195	208	230	n.a.	n.a.
Chlorate	58	90	103	355	631	650
Nitrate	207	304	79	186	331	337
Greece—						
Carbonate	1,092	748	765	1,369	913	610
Caustic potash	42	105	16	22	23	n.a.
Nitrate	188	126	52	132	109	n.a.
Sulphate	1,975	12,793	25,787	13,119	10,664	n.a.
Hungary—						
Fertilizer salts	31,700	26,336	35,798	57,278	81,520	73,723
Iceland—						
Fertilizer salts	3,279	2,956	3,416	3,988	4,087	3,751
Carbonate	15	11	7	12	5	11
Caustic potash	53	28	23	28	42	35
Italy—						
Fertilizer salts	79,636	65,305	68,596	60,542	74,829	60,515
Carbonate	3,183	3,227	3,188	2,338	2,604	3,927
Caustic potash	6,603	3,465	3,449	2,723	2,901	2,518
Chloride	26,229	31,878	34,843	56,904	74,401	154,492
Nitrate	808	874	886	638	964	1,240
Sulphate	26,353	35,130	31,556	43,149	43,369	39,680
Netherlands—						
Kainite	45,779	52,842	48,568	45,538	46,427	39,228
Fertilizer salts						
(20% K ₂ O)	34,949	37,752	40,153	42,777	38,112	40,238
do. (40% K ₂ O)	225,549	262,475	239,698	230,638	219,990	194,019
Carbonate	4,177	4,614	4,169	4,975	5,207	6,950
Caustic potash	5,032	4,016	5,059	6,136	7,564	6,374
Chloride	24,961	33,194	39,731	47,385	52,158	67,947
Nitrate	1,718	2,400	1,827	1,470	1,755	1,293
Sulphate	29,579	26,966	28,385	28,798	26,113	47,326
Patent potash	56,032	52,337	43,718	55,374	48,997	49,363
Norway—						
Fertilizer salts	45,073	44,462	51,380	21,241	367	819
Carbonate	413	389	281	265	346	312
Caustic potash	1,413	1,337	1,079	973	1,182	1,349
Chlorate	149	219	144	130	131	95
Chloride	22,635	39,960	53,445	54,822	77,770	75,762
Nitrate	104	194	258	155	146	164
Sulphate	16,097	18,905	17,893	17,867	13,663	17,284
Portugal—						
Carbonate	79	120	109	103	89	125
Caustic potash	22	65	79	64	30	56

IMPORTS OF POTASH SALTS (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Portugal <i>(cont.)</i> —						
Chlorate	182	180	196	159	148	227
Chloride	8,776	16,264	15,109	11,763	13,888	9,818
Nitrate	316	391	309	415	377	321
Sulphate	1,739	1,642	1,425	1,181	2,893	554
Roumania—						
Fertilizer salts (a) ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,100	1,100	3,900
Sweden—						
Fertilizer salts						
(40% K ₂ O)	13,994	—	—	530	} 825	2,057
do. (other)	143,734	176,492	157,069	130,027		
Carbonate	1,666	1,519	1,136	1,129	1,083	1,408
Caustic potash	313	361	336	332	204	287
Chloride	10,364	15,423	13,594	7,736	127,671	152,547
Nitrate	776	924	839	801	838	976
Sulphate	8,201	10,319	8,273	7,323	8,495	13,843
Switzerland—						
Fertilizer salts	74,470	69,104	67,026	79,292	70,836	102,369
Carbonate	1,153	1,694	1,399	1,236	2,043	1,995
Caustic potash	2,483	2,164	2,886	1,589	1,793	2,227
Chloride	6,965	9,785	13,393	15,936	21,230	(c)
Nitrate	(b) 992	(b) 827	(b) 641	(b) 938	(b) 2,035	737
Yugoslavia—						
Fertilizer salts	55,701	55,108	46,411	123,549	173,782	139,234
Caustic potash	187	70	<i>n.a.</i>	95	412	335
Chloride	<i>n.a.</i>	2,298	87,039	72,050	10,224	27,749
Nitrate	—	39	—	10	—	—
Sulphate	39	492	3,174	1,191	2,822	2,574
Algeria—						
Chloride	} 17,687	{ 7,885	12,340	14,817	13,449	12,233
Sulphate		2,174	7,085	10,859	8,112	9,753
Carbonate	6	2	12	1	36	32
Caustic potash	29	20	55	44	44	46
Nitrate	11	377	181	241	244	151
Angola—						
Chloride	15	49	32	9	267	229
Sulphate	316	22	75	180	195	226
Cameroun—						
Fertilizer salts	748	440	757	323	1,748	1,722
Canary Islands—						
Fertilizer salts	—	—	3,923	10	50	<i>n.a.</i>
Egypt—						
Fertilizer salts	—	231	2,966	4,457	11,810	1,968
Carbonate	184	81	196	369	208	298
Caustic potash	32	137	172	136	75	256
Chlorate	184	234	195	196	223	268
Malagasy Republic—						
Fertilizer salts	311	699	r 1,521	2,351	1,482	1,159
Morocco—						
Chloride	6,460	1,949	1,623	3,525	4,290	4,396
Sulphate	4,630	1,569	674	4,534	4,587	3,203
Tunisia—						
Fertilizer salts	2,293	1,641	2,469	3,843	2,480	4,224
Caustic potash	9	5	6	11	4	13
Costa Rica—						
Fertilizer salts	359	1,142	3,270	1,345	352	550
Cuba—						
Nitrate	5,357	16,205	10,304	7,972	<i>n.a.</i>	<i>n.a.</i>
Chlorate	236	187	259	163	<i>n.a.</i>	<i>n.a.</i>
Chloride	10,418	9,779	21,488	9,627	<i>n.a.</i>	<i>n.a.</i>
Sulphate	11,836	17,721	23,256	9,560	<i>n.a.</i>	<i>n.a.</i>

 (a) K₂O content.

(b) Includes sodium nitrate.

(c) Included with fertilizer salts.

IMPORTS OF POTASH SALTS (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES (cont.)						
Guatemala—						
Chlorate	46	55	81	88	n.a.	n.a.
Nitrate	2	56	8	60	n.a.	n.a.
Caustic potash	7	14	11	14	n.a.	n.a.
Mexico—						
Carbonate	n.a.	116	254	267	361	353
Chloride	5,845	7,261	8,222	16,384	12,209	9,878
Caustic potash	235	280	234	284	202	375
Sulphate	n.a.	136	414	1,034	1,559	1,480
Nicaragua—						
Fertilizer salts	127	251	201	229	104	128
United States—						
Carbonate	—	—	5	197	152	536
Caustic potash	193	239	239	483	621	594
Chlorates	306	310	329	417	470	415
Chloride	215,590	223,784	226,799	266,379	299,814	292,433
Cyanide	710	826	702	719	653	792
Nitrate	2,089	2,114	2,011	2,314	2,080	2,677
Potassium-sodium nitrate mixtures	17,232	17,367	22,672	20,989	32,561	16,698
Sulphate	49,733	47,448	43,876	58,770	117,280	58,133
Argentina—						
Carbonate	521	87	354	128	392	580
Caustic potash	1,491	243	170	285	503	543
Chlorate	979	41	562	515	541	596
Nitrate	826	—	—	—	15	156
Sulphate	249	584	535	621	25	85
Brazil—						
Caustic potash	403	1,346	170	120	573	592
Nitrate	869	1,345	909	494	602	1,337
Nitrate of potash and soda	20,761	15,815	11,379	—	7,690	15,841
Chloride	73,818	61,088	92,781	99,320	89,048	166,491
Sulphate	4,446	3,658	4,968	9,339	4,811	6,197
Carbonate	164	1,001	230	404	464	543
Chlorate	335	36	308	3	—	—
Chile—						
Caustic potash	221	91	84	165	181	n.a.
Chlorate	130	39	132	119	144	n.a.
Chloride	1	886	3,666	10,103	9,762	n.a.
Sulphate	2	1,516	4,929	2,652	2,243	n.a.
Colombia—						
Chlorate	280	326	267	264	206	207
Chloride	17,662	10,682	10,639	22,067	11,348	12,746
Nitrate	326	304	267	283	222	205
Sulphate	2,923	2,746	2,231	5,789	2,766	3,592
Other fertilizer salts	35	390	44	179	49	99
Peru—						
Fertilizer salts	540	2,308	1,480	3,054	2,190	3,617
Caustic potash	54	96	105	39	16	29
Other salts	170	129	144	132	176	201
Uruguay—						
Nitrate	n.a.	n.a.	595	914	2	111
Caustic potash	n.a.	n.a.	307	338	408	443
Venezuela—						
Carbonate	25	12	27	19	39	37
Chlorate	82	98	45	136	153	164
Chloride	1,892	1,399	1,696	5,027	1,084	2,540
Nitrate	424	330	126	51	158	137
Sulphate	1,167	1,537	3,940	—	2,003	7,363

IMPORTS OF POTASH SALTS (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Formosa—						
Fertilizer salts	4,478	25,258	23,613	48,867	19,841	76,862
Indonesia—						
Fertilizer salts	5,705	4,216	5,410	4,094	18,244	18,311
Nitrate	101	244	199	142	219	181
Japan—						
Kainite, etc.	—	3,937	—	—	50	—
Chloride	551,534	837,801	487,622	578,215	671,237	903,292
Sulphate	151,440						134,302	89,433	117,605	87,243
Jordan—						
Fertilizer salts	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	936	1,166	2,001
Korea (South)—						
Chloride	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	7,240	—	7,468
Lebanon—						
Fertilizer salts	2,618	2,655	2,651	2,513	3,699	3,700
Philippine Republic—						
Caustic potash	165	114	59	75	15	65
Chlorate	264	608	629	565	612	711
Nitrate	1,803	59	1,482	105	989	3,512
Sulphate	314	592	1,769	1,064	1,359	2,814
Other fertilizer salts ..	<i>n.a.</i>	4,898	<i>n.a.</i>	9,863	18,185	13,700
Thailand—						
Chlorate	85	188	323	326	201	295
Chloride	30	273	325	116	238	415
Nitrate	394	547	1,052	823	829	787
Sulphate	89	<i>n.a.</i>	148	246	794	463
Turkey—						
Carbonate	794	763	1,621	496	1,411	1,125
Caustic potash	173	235	368	275	456	213
Chlorates	94	237	114	105	810	158
Nitrate	134	—	—	—	—	—
Sulphate	<i>n.a.</i>	12,098	26	5,413	7,992	1
Vietnam (South)—						
Fertilizer salts	1,124	2,582	4,693	5,221	8,625	<i>n.a.</i>

PYRITES

PRODUCTION OF PYRITES (see also Sulphur)

(including Cupreous Pyrites)

Long tons

Producing Country	Estimated Sulphur Content						1960	1959	1958	1957	1956	1955	1959	1958	1957	1956	1955
	1955	1956	1957	1958	1959	1960											
COMMONWEALTH COUNTRIES																	
United Kingdom ..	5,514	4,207	3,597	3,202	776	132					n.a.						n.a.
Southern Rhodesia ..	21,268	18,674	19,986	58,268	40,237	49,298					9,400						17,700
Union of South Africa ..	351,651	429,964	388,216	493,184	495,388	492,173					137,882						195,101
Canada (c) ..	784,332	934,589	1,041,443	1,064,946	981,754	896,755					360,702						415,724
Cyprus (a) ..	961,390	1,080,822	1,081,357	1,010,000	869,864	1,064,343					471,000						423,000
India ..	800				15						348						
Australia ..	228,764	184,488	b 229,125	b 226,744	b 223,004	224,817					107,700						106,900
TOTAL ..	2,354,000	2,653,000	2,764,000	2,855,000	2,611,000	2,728,000											
OTHER COUNTRIES																	
Czechoslovakia ..	r 318,000	333,000	364,000	379,000	365,000	394,000					118,000						144,000
Finland (b) ..	298,063	289,440	292,461	r 249,000	254,000	255,000					126,000						107,000
Bulgaria (b) ..	n.a.	70,200	88,685	82,713	112,789	n.a.					n.a.						47,000
France (e) ..	300,531	298,996	318,508	327,329	289,738	272,717					133,240						120,802
Germany (Federal) ..	627,518	634,238	596,223	556,553	462,123	528,987					251,311						188,863
Germany (East) ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.					48,000						46,000
Greece ..	229,126	237,014	230,775	160,304	127,050	n.a.					100,000						59,000
Italy ..	1,296,208	1,356,040	1,448,167	1,490,413	1,496,373	1,520,820					592,000						673,000
Norway ..	830,450	839,515	830,207	780,286	732,410	819,562					r 615,000						320,000
Poland ..	139,000	152,000	207,000	208,000	217,000	217,000					361,775						79,000
Portugal ..	660,154	659,198	656,237	588,719	621,572	644,578					297,070						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 misspicket and auriferous pyrites was as follows (long tons): 1955—6,577; 1956—6,780; 1957—6,993; 1958—7,517; 1959—9,102; 1960—8,986.

PRODUCTION OF PYRITES (cont.)

Long tons

Producing Country	Estimated Sulphur Content											
	1955	1956	1957	1958	1959	1960	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES												
<i>(cont.)</i>												
Roumania ..	179,000	178,000	174,000	202,000	231,000	c 231,000	72,000	71,000	70,000	81,000	93,000	93,000
Spain ..	2,289,598	2,259,365	2,224,584	2,014,052	2,086,086	2,217,233	1,110,000	1,090,000	1,041,300	n.a.	961,000	1,053,000
Sweden ..	387,850	485,670	493,714	329,472	341,397	405,800	191,008	238,938	244,595	162,766	171,616	200,000
Yugoslavia (a) ..	223,102	251,905	307,663	326,000	285,000	410,000	100,000	113,000	138,000	147,000	128,000	185,000
Algeria ..	21,330	5,968	18,500	24,261	28,591	37,900	r 9,703	r 2,596	r 8,300	r 11,137	13,300	17,000
Morocco ..	1,397	r 596	6,161	18,159	14,190	13,226	600	r 300	2,000	6,000	5,000	5,000
Cuba ..	128,984	61,039	35,638	33,334	70,645	n.a.	n.a.	n.a.	n.a.	17,000	32,000	n.a.
United States (b) ..	1,006,943	1,069,904	1,067,396	974,114	1,056,617	1,016,263	409,826	431,687	436,012	403,373	436,871	416,213
Venezuela ..	49	59,200	59,000	14,067	33,243	42,318	n.a.	14,000	14,000	4,000	—	—
Formosa ..	28,559	29,194	32,746	32,499	33,243	42,318	10,700	11,122	12,300	12,200	12,500	15,900
Japan ..	2,692,929	3,048,576	3,324,390	3,305,546	3,336,268	3,633,933	1,149,647	1,295,676	1,403,712	1,378,442	1,395,545	1,517,316
Korea (South) ..	—	—	541	277	506	1,058	—	—	n.a.	n.a.	n.a.	n.a.
Philippine Republic ..	30,296	—	17,566	18,693	24,791	25,000	13,600	—	7,900	8,000	9,900	11,900
Turkey ..	16,137	22,724	47,767	80,302	87,275	41,617	7,700	10,900	22,700	39,000	42,000	30,000
TOTAL*	11,900,000	12,400,000	12,800,000	12,300,000	12,400,000	13,000,000	6,300,000	6,700,000	6,900,000	6,600,000	6,500,000	7,000,000
WORLD'S TOTAL*	14,200,000	15,100,000	15,700,000	15,100,000	15,000,000	16,000,000	6,300,000	6,700,000	6,900,000	6,600,000	6,500,000	7,000,000

*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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Rhodesia and Nyasaland—						
Iron pyrites	3,706	12,844	19,662	33,824	1,972	—
Cyprus—						
Iron pyrites	753,640	821,727	762,501	819,835	659,370	815,412
Cupreous pyrites	139,230	171,032	226,334	228,821	307,026	248,931
Australia (a)	—	20	—	—	—	—
OTHER COUNTRIES						
Austria	35,190	27,824	26,899	15,691	19,451	27,102
Belgium-Luxemburg						
E.U.	—	—	888	4,786	—	—
Finland—						
Concentrate	75,182	41,538	24,066	3,394	40,969	124,984
France	108	—	—	—	—	—
Germany (Federal)—						
Iron pyrites	30,747	6,377	10,925	6,250	6,643	1,225
Greece	121,343	203,114	183,884	79,088	35,792	51,882
Italy—						
Iron pyrites	93,906	100,293	99,923	153,837	} 164,721	232,912
Cupreous pyrites	3,664	1,654	1,699	1,959		
Norway—						
Iron pyrites	145,118	} 460,362	442,573	388,590	401,708	458,783
Cupreous pyrites	320,071					
Portugal—						
Iron pyrites	441,928	401,042	292,332	351,749	350,932	336,879
Cupreous pyrites	2,297	1,716	3,220	1,910	2,077	1,967
Spain—						
Iron pyrites	1,504,992	1,484,769	1,384,942	1,061,651	982,010	n.a.
Cupreous pyrites	21,510	30,466	38,128	58,431	41,391	n.a.
Sweden	15,532	54,454	99,541	67,683	35,542	28,916
Yugoslavia	212,044	178,876	189,934	274,909	183,826	338,701
Algeria	—	591	—	—	10,383	16,849
Turkey	n.a.	115,472	33,921	50,546	48,876	54,582

(a) Years ended June 30 of that stated.

IMPORTS OF PYRITES

Long tons

Importing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom ..	499,197	384,652	356,830	245,147	213,448	275,137
Irish Republic	37,977	44,371	18,314	29,445	36,204	31,605
OTHER COUNTRIES						
Austria	94,941	88,548	95,503	64,719	46,513	64,699
Belgium-Luxemburg E.U.	411,289	430,990	275,944	262,552	265,988	422,917
Czechoslovakia	<i>n.a.</i>	85,000	102,000	66,000	49,000	50,000
Denmark	129,562	131,685	131,523	133,731	127,693	150,184
France	545,908	488,797	436,118	493,633	444,501	473,394
Germany (Federal) ..	1,126,257	1,307,094	1,478,298	1,306,900	1,313,029	1,691,849
Germany (East) .. .	175,964	(a) 77,568	(a) 159,501	(a) 80,018	(a) 98,990	(a) 120,635
Hungary	101,558	85,359	133,571	r 101,996	112,309	122,626
Italy	206,926	285,435	318,466	217,972	154,422	286,244
Netherlands	474,002	598,434	360,885	328,119	373,584	372,737
Sweden	121,113	115,895	109,118	108,343	76,347	95,617
Algeria	16,595	19,436	14,299	14,343	2,286	—
Egypt	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	72,252	74,250
Morocco	11,332	3,328	2,273	1,470	1,457	—
Tunisia	9,730	3,740	7,643	9,063	8,971	4,500
United States	358,165	365,816	353,032	343,060	280,638	304,789

 (a) *S content.*

RARE EARTH AND THORIUM MINERALS

PRODUCTION OF RARE EARTH AND THORIUM MINERALS

Long tons

Producing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Nigeria—						
Monazite	—	77	93	57	13	12
Thorite (c)	<i>n.a.</i>	727	1,054	53	<i>n.a.</i>	1
Canada—						
Thorium (e)	—	—	—	—	21	58
Ceylon—						
Monazite	60	52	134	111	84	330
Malaya (a)—						
Monazite	249	631	490	428	236	42
Australia (b)—						
High-grade concentrates	149	93	132	423	331	353
Low-grade concentrates	44	146	—	—	—	—
OTHER COUNTRIES						
Congo Republic—						
Monazite	4	1	—	—	—	—
Bastnaesite	319	350	236	3	—	<i>n.a.</i>
Egypt—						
Monazite	1	6	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Malagasy Republic—						
Monazite	64	150	295	—	—	420
Bastnaesite	10	1	1	—	—	—
Uranothorianite (f)	<i>n.a.</i>	<i>n.a.</i>	355	477	572	(g) 550
Mozambique—						
Monazite	—	—	—	—	—	1
United States (d)—						
Monazite, bastnaesite and thorite	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,804	1,021	<i>n.a.</i>
Korea (South)—						
Monazite	500	181	350	317	58	12

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.

(g) Estimated.

EXPORTS OF RARE EARTH MINERALS, ETC.

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Nigeria—						
Monazite	—	77	93	57	13	12
Thorite (a)	n.a.	727	1,054	53	n.a.	1
Ceylon—						
Monazite	30	—	—	—	—	—
Malaya—						
Monazite	249	631	490	428	236	42
Australia—						
Concentrates	107	56	145	102	150	158
OTHER COUNTRIES						
France—						
Salts of rare earth minerals	464	104	116	220	132	147
Congo Republic—						
Monazite	n.a.	3	—	—	—	—
Bastnaesite	n.a.	80	185	18	—	1
Malagasy Republic—						
Monazite	49	146	295	—	—	360
Bastnaesite	12	2	1	n.a.	n.a.	n.a.
Uranothorianite	n.a.	n.a.	329	138	152	572
United States—						
Cerium ores, metals, etc.	9	11	6	13	12	7
Brazil—						
Cerium chloride	1,663	1,014	985	196	1,061	2,272

 (a) Between 5% and 6% ThO₂.

IMPORTS OF RARE EARTH MINERALS, ETC.

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Rare earth compounds ..	70	51	211	105	n.a.	n.a.
Canada—						
Thorium and cerium salts	(£10,053)	(£12,993)	(£27,020)	(£8,022)	(£16,206)	(£6,821)
OTHER COUNTRIES						
Austria—						
Salts of rare earth minerals	765	549	1,148	324	(a) 382	(a) 1,004
France—						
Monazite	171	205	437	397	(b) 1,235	(b) 846
Salts of rare earth minerals	1,706	550	509	14	327	602
Germany (Federal)—						
Rare earth minerals	475	336	73	n.a.	n.a.	30
Salts of rare earth minerals	301	315	580	(a) 384	(a) 697	(a) 1,144
United States—						
Cerium ores	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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Rock-salt	69,770	99,236	88,133	116,482	142,831	149,990
Brine-salt	1,073,422	1,049,854	1,043,779	1,085,547	1,132,419	1,227,650
Salt in brine (a) ..	3,655,377	3,835,363	3,852,692	3,732,899	4,185,058	4,385,010
Malta—						
Sea-salt	970	1,320	1,146	1,435	1,065	1,399
Ghana (b)	22,000	22,000	22,000	22,000	22,000	22,000
Mauritius—						
Sea-salt	3,400	3,400	3,700	3,800	3,700	4,200
Nigeria—	(b) 250	(b) 300	(b) 400	554	400	666
South West Africa—						
Rock-salt	6,254	4,474	6,214	6,293	4,887	4,000
Other salt	52,257	73,441	58,957	80,000	44,600	68,000
Kenya	25,376	21,885	22,602	18,721	19,242	21,916
Tanganyika	23,521	27,870	25,792	35,232	36,722	32,811
Uganda	9,013	8,853	9,541	9,919	8,781	4,891
Union of South Africa ..	137,784	168,972	143,521	215,132	233,362	248,849
Canada—						
Rock-salt	245,629	570,224	706,237	696,512	1,111,523	1,179,212
Other salt (c)	873,898	857,052	875,727	1,411,200	1,850,118	1,777,460
British West Indies—						
Sea-salt—						
Bahamas (exports) ..	40,786	27,893	113,429	105,750	176,571	171,286
Leeward Islands (exports) ..	4,557	991	1,368	2,496	2,065	n.a.
Turks and Caicos Islands	6,279	13,742	15,872	20,000	31,546	24,408
Aden	264,340	248,000	198,000	155,000	175,000	127,641
Ceylon	36,325	107,843	84,742	17,883	30,253	54,000
Cyprus	—	4,487	6,336	5,048	5,351	—
India—						
Rock-salt	5,140	3,439	4,335	5,115	3,637	4,243
Other salt	2,881,860	3,186,452	3,608,870	4,160,553	3,124,000	3,377,000
Pakistan—						
Rock-salt	139,786	160,916	155,669	177,601	163,014	184,755
Sea-salt	258,876	227,486	296,643	193,837	130,645	248,176
Australia	369,323	408,689	427,600	429,534	455,632	467,372
New Zealand	3,000	11,400	n.a.	7,650	20,300	17,020
TOTAL	10,200,000	11,100,000	11,800,000	12,700,000	13,100,000	13,800,000
OTHER COUNTRIES						
Austria—						
Rock-salt	797	608	636	738	1,022	1,697
Evaporated salt	105,155	107,131	114,632	r 116,372	123,601	130,379
Bulgaria	32,479	57,084	73,000	110,000	87,000	87,000
Czechoslovakia	130,899	151,056	158,167	159,070	158,279	165,086
France—						
Rock-salt (incl. refined)	459,463	479,344	495,636	r 540,658	486,000	490,000
Salt in brine	2,073,783	2,323,614	2,419,542	r 2,190,448	2,368,000	2,463,000
Sea-salt	702,835	541,132	554,196	808,904	758,541	713,210

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

(b) Estimated.

(c) Including salt in brine.

PRODUCTION OF SALT (cont.)

Long tons

Producing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (Federal)—						
Rock-salt, etc.	3,001,283	3,207,000	3,211,000	3,183,000	3,268,000	3,573,000
Brine-salt	329,485	318,000	319,000	333,000	324,000	334,000
Germany (East)	1,495,992	1,663,307	1,728,000	1,750,000	<i>a</i> 1,771,000	<i>a</i> 1,771,000
Greece—						
Sea-salt	70,992	91,531	8,000	94,000	96,000	(<i>a</i>) 94,000
Italy—						
Rock-salt and brine-salt	986,038	993,094	1,062,619	1,013,503	1,225,385	1,528,443
Sea-salt	828,384	816,499	708,473	917,497	<i>n.a.</i>	<i>n.a.</i>
Spring-salt	18,249	28,872	20,533	22,126	<i>n.a.</i>	<i>n.a.</i>
Netherlands (brine-salt)	576,000	616,048	706,197	782,650	970,497	1,078,360
Poland—						
Rock-salt	378,800	388,800	372,000	386,000	500,000	513,000
Brine-salt	205,000	214,400	214,000	225,000	224,000	219,000
Other salt	634,000	646,000	695,000	974,000	1,075,000	1,183,000
Portugal—						
Rock-salt	47	17	27,832	58,482	61,282	68,845
Sea-salt (<i>c</i>)	1,243	3,533	2,627	3,131	1,488	478
Roumania	557,000	830,000	836,000	720,000	827,000	1,028,000
Spain—						
Rock-salt	443,882	487,418	504,735	551,239	550,294	528,027
Sea-salt	626,956	751,616	804,596	846,902	748,919	815,450
Other salt	24,341	36,660	7,133	16,414	17,373	14,087
Switzerland	120,515	117,326	128,823	122,575	135,058	146,953
Yugoslavia—						
Sea-salt	35,000	41,000	39,000	60,000	22,000	35,000
Evaporated salt	98,000	101,000	106,000	109,000	113,000	114,000
Algeria—						
Brine-salt and sea-salt . .	101,526	101,754	114,897	130,516	126,000	<i>n.a.</i>
Angola	56,934	80,173	51,495	68,052	68,137	56,904
Canary Islands (sea-salt)	19,895	19,000	14,634	14,945	12,981	11,361
Cape Verde Islands	21,479	21,630	19,393	7,697	19,949	23,383
Congo Republic (rocksalt)	451	502	271	477	569	<i>n.a.</i>
Egypt	395,355	522,000	508,000	396,000	377,000	513,000
Ethiopia—						
Rock-salt	14,763	13,000	(<i>a</i>) 12,000	(<i>a</i>) 15,000	(<i>a</i>) 15,000	19,000
Sea-salt	178,212	130,203	140,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
French Somaliland	17,930	6,568	2,300	—	—	—
Libya (sea-salt)	14,602	15,000	—	12,000	15,000	(<i>a</i>) 22,000
Morocco (Southern)	39,511	27,531	} 51,144	60,026	33,231	29,843
Morocco (Northern)—						
Sea-salt	(<i>b</i>) 250	(<i>b</i>) 300				
Mozambique—						
Rock-salt	137	71	57	5	<i>n.a.</i>	40
Sea-salt	14,712	12,144	16,670	21,526	<i>n.a.</i>	<i>n.a.</i>
Sudan	23,059	54,286	53,436	53,000	53,087	54,000
Tunisia (sea-salt)	131,000	133,000	148,000	167,000	91,000	162,900
Costa Rica	2,009	(<i>b</i>) 5,000	4,400	(<i>a</i>) 29,000	12,000	(<i>b</i>) 10,000
Cuba (sea-salt)	62,201	<i>r</i> 57,178	<i>r</i> 66,124	58,129	79,432	57,671
Dominican Republic—						
Rock-salt	17,646	32,618	42,653	43,233	62,818	65,259
Sea-salt	316	499	15,246	15,520	19,831	19,210
Guatemala (sea-salt)	<i>n.a.</i>	16,253	16,505	15,395	15,642	14,846
Haiti (<i>b</i>)	29,900	5,000	10,000	10,000	10,000	12,000
Honduras	(<i>b</i>) 10,000	13,409	12,000	(<i>b</i>) 10,000	(<i>b</i>) 10,000	(<i>b</i>) 10,000
Mexico	(<i>b</i>) 220,000	217,000	297,000	357,000	512,000	<i>n.a.</i>
Netherlands Antilles	<i>n.a.</i>	1,130	500	500	300	112
Nicaragua (sea-salt)	9,445	10,232	8,961	9,883	10,658	11,318

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

(*b*) Estimated.

(*c*) Exports.

PRODUCTION OF SALT (cont.)

Long tons

Producing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES (cont.)						
Panama (sea-salt) ..	9,235	6,862	8,363	5,524	7,722	7,000
Salvador ..	47,738	49,108	49,109	n.a.	n.a.	n.a.
United States (e)—						
Rock-salt ..	4,726,000	5,020,444	4,769,273	4,828,000	5,500,000	5,773,000
Salt in brine ..	11,986,000	13,004,262	12,963,164	11,378,000	13,413,000	13,313,000
Evaporated salt ..	3,550,000	3,587,000	3,557,000	3,358,000	3,554,000	3,662,000
Argentina ..	387,000	371,000	323,082	555,000	571,000	a b 571,000
Bolivia ..	2,000	2,000	n.a.	n.a.	n.a.	n.a.
Brazil (sea-salt) ..	571,645	734,472	785,203	939,923	840,978	908,338
Chile ..	50,777	27,301	33,000	n.a.	41,998	n.a.
Colombia—						
Rock-salt ..	172,368	191,424	r 203,769	r 216,621	210,104	231,624
Sea-salt ..	r 33,569	r 36,551	94,229	69,713	50,053	66,775
Brine-salt ..	108,585	114,026	196,874	143,410	n.a.	n.a.
Ecuador (sea-salt) ..	34,346	25,588	24,037	19,000	21,000	28,000
Peru—						
Rock-salt ..	9,416	9,317	9,249	8,649	} 104,000	} 104,000
Sea-salt ..	75,738	76,639	96,969	85,996		
Brine-salt ..	2,992	7,634	6,042	9,103		
Venezuela (sea-salt) ..	61,165	36,995	84,324	86,817	76,494	77,655
Afghanistan ..	(a) 21,800	22,200	21,800	25,200	n.a.	n.a.
Burma—						
Sea-salt ..	103,549	85,198	113,668	109,066	110,048	154,066
Brine-salt ..	1,180	898	840	793	803	1,231
China ..	7,410,000	4,860,000	8,150,000	10,240,000	10,870,000	a 13,000,000
Formosa (sea-salt) ..	442,615	323,316	380,979	436,908	422,877	434,256
Cambodia ..	} n.a.	23,300	30,000	30,000	n.a.	n.a.
Laos ..		(a) 2,000	(a) 2,000	n.a.	n.a.	n.a.
Vietnam (South) ..		79,722	86,590	106,144	153,230	103,355
Indonesia ..	45,398	107,645	341,706	230,898	310,000	195,000
Iran (b) (c) ..	262,783	275,578	295,262	73,000	79,000	(a) 79,000
Iraq (c) (b) ..	19,156	19,000	20,000	(a) 20,000	26,000	(a) 23,000
Israel ..	(a) 10,000	(a) 25,000	(a) 27,000	33,160	33,451	37,000
Japan—						
Government-licensed plants (d) ..	552,978	616,932	818,915	1,041,046	1,146,790	867,696
Jordan (brine-salt) ..	7,583	9,981	9,946	10,725	15,500	12,077
Korea (South) ..	348,544	193,830	363,360	429,516	383,733	392,962
Lebanon (sea-salt) (a) ..	10,000	15,000	12,000	15,000	15,000	15,000
Philippine Republic—						
Sea-salt ..	78,733	62,595	114,285	137,433	171,788	93,249
Portuguese India ..	6,069	5,507	9,361	4,486	3,811	8,000
Syria ..	13,738	32,256	33,246	(b) 39,000	(b) 20,000	5,000
Thailand ..	232,000	244,000	259,000	421,000	345,000	329,000
Turkey—						
Rock-salt ..	27,996	28,095	8,996	35,131	34,226	31,061
Lake and spring salt ..	146,724	112,995	} 440,787	{ 101,232	} 448,823	} 407,455
Sea-salt ..	192,277	232,748				
TOTAL* ..	54,000,000	54,000,000	58,000,000	59,000,000	64,000,000	69,000,000
WORLD'S TOTAL* ..	64,000,000	65,000,000	70,000,000	72,000,000	77,000,000	83,000,000

*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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Rock-salt	5,017	} 265,155	271,987	287,577	295,575	310,268
Other salt	271,329					
Kenya	1,332	1,230	586	64	18	5
South West Africa—						
Rock-salt	1,679	1,709	1,965	1,596	1,831	1,794
Coarse salt	30,820	38,678	36,524	41,091	37,788	31,843
Other salt	263	555	583	577	398	1,405
Tanganyika	8,184	9,280	8,442	8,676	11,869	11,781
Uganda	2,077	2,241	2,309	1,966	2,270	1,393
Union of South Africa ..	8,222	7,738	9,041	11,458	11,344	16,555
Canada	130,778	298,156	408,828	363,131	1,137,569	n.a.
British West Indies—						
Bahamas (b)	40,786	27,893	113,429	105,750	176,571	171,286
Leeward Islands	4,557	991	1,368	2,496	2,065	n.a.
Turks and Caicos Islands ..	13,817	15,781	21,028	18,156	19,095	31,717
Aden	243,766	217,000	342,350	147,050	168,506	101,279
Ceylon	—	48	—	—	—	4
Hong Kong	1,898	717	297	194	529	464
India—						
Trade by sea	199,589	256,213	} 375,382	252,996	340,765	(c) 392,548
Trade by land	(c) 2,965	1,312				
Malaya	7,209	5,384	7,675	12,472	2,754	2,369
Pakistan	(c) —	93,380	5,663	6,799	15,619	34,855
Australia (a)—						
Refined salt	765	132	909	113	857	642
Other salt	20,477	23,581	18,891	19,091	18,470	16,815
OTHER COUNTRIES						
Austria	44	—	5,441	1,274	15	—
Belgium-Luxemburg						
E.U.—						
Common salt	61	637	148	90	185	112
Refined salt	35	17	39	127	148	50
Denmark—						
Refined salt, etc. ..	620	381	234	313	343	280
France	92,184	83,579	72,490	87,035	103,420	108,316
Germany (Federal) ..	749,540	846,951	726,793	697,342	669,846	714,799
Italy—						
Rock-salt and sea-salt ..	130,691	119,226	99,020	63,197	40,665	18,509
Netherlands—						
Rock-salt	69	475	3,398	5,294	7,652	8,371
Refined salt	324,933	365,598	437,328	450,019	536,609	627,306
Norway—						
Common salt	3,646	9,476	6,176	5,132	4,243	4,533
Refined salt	144	558	901	412	15	19
Poland	136,900	115,000	93,000	102,000	118,000	150,000
Portugal	1,243	3,533	2,627	3,131	1,488	478

(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	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Roumania	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	134,000	151,900	185,300
Spain	398,892	325,795	318,889	354,925	435,712	<i>n.a.</i>
Sweden	1,709	826	269	40	35	14
U.S.S.R.	83,300	105,600	105,600	92,100	68,200	86,600
Algeria	47,788	47,024	32,152	36,898	40,458	59,298
Angola	19,991	23,723	33,134	22,701	23,518	23,176
Cape Verde Islands	16,825	17,858	22,053	20,224	20,019	25,621
Egypt	223,473	216,203	177,530	327,886	230,144	385,620
Ethiopia (b)	49,772	68,215	94,256	46,325	73,041	52,604
French Somaliland	28,034	6,752	49,057	—	—	—
Malagasy Republic	1,625	2,339	1,403	2,163	2,073	2,272
Mozambique	1,303	2,337	7,130	4,756	4,323	4,778
Morocco	1,551	944	<i>n.a.</i>	51	104	143
Sudan	24,651	21,272	44,569	22,504	34,745	11,497
Tunisia	125,672	74,319	122,895	128,329	135,142	87,255
Cuba	258	262	272	204	<i>n.a.</i>	<i>n.a.</i>
Dominican Republic	14,833	32,054	32,749	44,370	54,738	58,011
Honduras	174	54	621	2,002	4,393	2,835
Mexico	763	1,554	59,800	120,265	208,490	489,473
Netherlands Antilles	125	199	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Salvador	1,084	1,010	419	582	739	1,312
United States	363,509	300,286	348,846	324,115	378,883	376,575
Argentina	23,624	26,648	43,221	26,429	21,747	17,869
Brazil	2,953	—	—	—	—	—
Peru	26	29	287	198	104	395
Formosa	232,932	193,924	197,958	285,996	283,103	287,531
Iran (a)	<i>n.a.</i>	21,997	1,675	1,082	<i>n.a.</i>	<i>n.a.</i>
Japan	—	—	1	98	99	86
Portuguese India	—	1,076	476	5,229	419	<i>n.a.</i>
Thailand	171,096	260,910	219,647	243,272	257,105	220,356
Turkey	16,150	54,920	27,922	—	31,396	142,676
Vietnam (South)	52,131	34,842	69,006	29,122	82,315	51,080

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

(b) Years ended September 10 of that stated.

IMPORTS OF SALT

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Salt for use of fisheries..	45,103	47,750	26,539	49,698	53,731	52,375
Other salt	2,912	3,721	—	—	—	—
Channel Islands	661	643	667	667	621	698
Malta—						
Refined salt	(£2,777)	(£3,160)	(£4,434)	(£3,869)	(£5,683)	(£4,526)
Other salt	848	836	667	412	675	370
Gambia	451	385	429	810	406	301
Ghana	9,138	10,099	13,683	17,465	10,620	8,342
Kenya	2,173	5,407	332	4,194	2,874	1,944
Mauritius	56	4	8	10	7	1,021
Nigeria	98,173	102,285	92,243	103,834	99,755	103,969
Rhodesia and Nyasaland	28,662	29,547	32,034	31,211	34,705	38,251
Seychelles	579	410	200	578	251	234
Sierra Leone	6,792	6,432	5,961	7,225	6,204	7,394
Tanganyika	2,140	342	643	957	798	623
Uganda	4,366	10,241	11,374	13,442	15,528	18,573
Union of South Africa—						
Rock-salt	—	—	4	—	161	—
Common salt and refined salt	6,639	2,261	2,828	5,110	3,541	4,092
Zanzibar	1,074	1,288	1,900	1,156	1,333	n.a.
Canada—						
Salt for use of fisheries..	44,305	52,666	r 67,387	50,872	56,955	58,125
Refined salt	35	40	86	37	156	671
Other salt	281,759	232,227	r 260,635	253,454	273,217	112,579
British Honduras	442	441	460	485	603	515
British West Indies—						
Barbados	2,677	2,096	2,373	2,085	2,418	109
Bermuda	144	160	159	150	326	169
Dominica	38	287	378	390	422	336
Grenada	512	747	879	643	586	n.a.
Jamaica—						
Rock-salt	133	41	29	17	24	3
Other salt	11,293	12,209	11,680	12,736	12,211	10,863
Leeward Islands	248	322	152	276	267	n.a.
St. Lucia—						
Common salt	481	495	756	426	341	n.a.
Refined salt	28	49	62	63	85	n.a.
St. Vincent—						
Unrefined salt.. .. .	221	205	181	329	124	n.a.
Refined salt	149	324	289	318	230	n.a.
Trinidad and Tobago—						
Rock and coarse salt ..	775	519	626	803	674	838
Refined salt	5,231	3,891	12,188	5,056	5,259	5,003
British Guiana—						
Rock and coarse salt ..	51	250	390	120	315	16
Refined salt, etc.	2,136	2,027	2,301	2,172	2,242	2,662
Aden	95	40	42	—	37	101
Brunei	246	230	304	292	298	290
Ceylon—						
Refined salt	5	3	5	7	10	22
Other salt	40	30	12	7	132	—
Cyprus	117	206	207	172	233	190
Hong Kong	32,599	26,586	33,287	24,720	30,796	29,867
India	28	20	87	17	365	(b) 158
Malaya—						
Refined salt	240	195	211	243	278	278
Other salt	78,585	59,368	76,173	90,209	69,807	80,652
North Borneo	2,687	2,507	2,480	4,128	3,073	3,856
Pakistan (a)	(b) 2,965	1,312	1,750	2,860	2,170	1,100
Sarawak	3,880	3,966	4,260	4,986	4,849	4,516

(a) Exports from India to Pakistan by land.

(b) Years ended March 31 following that stated.

IMPORTS OF SALT (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
<i>(cont.)</i>						
Australia (a)—						
Rock-salt	2,755	2,261	2,504	3,147	1,246	1,428
Refined salt	2,440	2,250	1,400	1,783	1,054	681
Other salt	3,320	2,915	1,746	5,018	5,590	10,406
Fiji	1,330	2,277	927	1,441	1,563	1,899
New Guinea (a)	711	649	812	854	966	982
New Hebrides	157	91	90	142	161	98
New Zealand	54,887	59,144	47,802	48,052	46,521	44,350
Papua (a)	239	216	368	769	936	484
Solomon Islands (b)	24	22	29	30	27	90
Western Samoa	179	276	259	231	297	219
Irish Republic—						
Refined salt	1,939	2,034	2,176	3,507	4,568	3,833
Other salt	27,306	26,462	30,441	29,917	28,514	31,934
OTHER COUNTRIES						
Austria—						
Common salt	17	55	34	21	10	153
Belgium-Luxemburg E. U.—						
Common salt	448,150	456,207	460,556	429,686	493,253	528,804
Refined salt	78,576	91,246	65,689	78,010	71,751	78,637
Denmark—						
Rock-salt	1,169	1,018	322	60	50,655	70,528
Refined salt	121,124	124,996	128,542	135,632	86,136	74,554
Faroe Islands	11,218	11,626	19,340	20,262	14,763	14,133
Finland—						
Common salt	139,808	135,828	152,656	161,429	183,740	196,711
France	50,057	59,814	46,847	48,356	47,279	45,524
Germany (Federal)	196	384	569	923	7,329	15,920
Iceland—						
Common salt	55,108	69,058	52,585	45,333	37,432	51,830
Refined salt	184	110	95	156	189	212
Italy—						
Rock and sea-salt	1,843	830	40	124,577	41,822	137,091
Netherlands—						
Rock-salt	58,552	69,820	45,055	42,911	24,606	} 17,762
Sea-salt, etc.	5,390	4,548	1,525	7,474	7,438	
Refined salt	21	29	35	33	38		19,250
Norway—						
Common salt	229,687	265,670	234,596	204,616	152,872	169,847
Refined salt	33,345	34,896	34,571	32,426	61,058	75,801
Portugal	100	901	70,756	151	182	170
Sweden	330,192	406,307	409,549	444,443	454,869	510,095
Switzerland	492	443	610	736	1,008	1,164
Yugoslavia	29,513	83,379	75,353	48,159	38,154	79,384
Algeria	171	155	231	219	284	370
Cameroun	10,334	10,813	12,313	11,071	12,751	10,932
Canary Islands	3,140	646	943	369	1,290	n.a.
Ceuta	5,073	5,364	2,078	752	862	n.a.
Congo Republic	39,555	49,686	38,146	46,890	49,809	n.a.
Dahomey	(d)	(d)	938	958	621	1,601
Egypt	130	69	3	9	8	5
Equatorial African Community						
Ethiopia (c)	7,647	8,112	8,144	10,721	8,240	10,537
French West Africa	1,762	2,524	824	1,787	1,387	594
French West Africa	18,700	15,747	(e)	(e)	(e)	(e)

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

(c) Years ended September 10 of that stated.

(d) See under French West Africa.

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

IMPORTS OF SALT (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Ivory Coast	(c)	(c)	8,800	10,974	15,286	15,874
Liberia	1,701	1,488	2,113	266	1,396	1,515
Malagasy Republic	804	239	r 2,048	r 192	194	253
Melilla	235	649	589	979	1,024	n.a.
Morocco	7,042	11,528	n.a.	2,296	4,134	2,753
Mozambique	4,044	4,190	9,626	6,956	2,021	2,058
Niger	(c)	(c)	472	119	107	1,596
Reunion	1,447	1,670	1,127	1,496	1,421	n.a.
S. Tome and Principe	512	539	452	472	n.a.	n.a.
Senegal	(c)	(c)	164	350	110	137
Somali Republic (b)	20	34	—	81	12	596
Sudan	88	66	93	17	59	25
Togo	4,300	6,414	6,329	11,494	5,552	3,882
Upper Volta	(c)	(c)	36	206	1,024	926
Costa Rica	138	176	143	142	156	96
Cuba	9,397	8,145	6,918	5,497	n.a.	n.a.
French West Indies—						
Guadeloupe	1,783	1,686	1,242	596	n.a.	n.a.
Martinique	1,265	3,174	1,538	2,040	n.a.	n.a.
Greenland	13,990	17,738	12,205	15,051	12,090	12,595
Guatemala	78	69	42	82	n.a.	n.a.
Honduras	866	1,154	790	934	750	1,156
Mexico	1,013	1,431	1,222	1,434	7,048	2,556
Netherlands Antilles	464	604	628	550	568	541
Nicaragua	937	648	466	421	574	595
St. Pierre and Miquelon	1,090	850	2,129	604	593	778
Salvador	200	64	654	2,004	4,344	2,741
United States	165,762	328,760	581,112	545,574	914,847	943,775
Bolivia	218	245	4	5	53	n.a.
Brazil	17	24	38	19	10	46
Colombia	107	3	8	31	3	4
French Guiana	243	266	281	224	n.a.	n.a.
Peru	1	54	1	8	86	74
Surinam	905	1,037	928	878	975	1,065
Uruguay	55,953	31,013	54,614	31,139	57,484	47,603
Burma	381	303	617	325	1,080	1,557
Indonesia	23	122,121	113,042	6,288	84	85
Iran (a)—						
Common salt	n.a.	523	63	4	n.a.	n.a.
Refined salt	n.a.	10	30	96	n.a.	n.a.
Iraq	102	50	32	43	n.a.	n.a.
Japan	1,993,037	2,267,414	2,053,208	1,674,643	1,911,882	2,323,639
Laos	2,415	1,329	n.a.	n.a.	675	2,234
Lebanon	10,157	6,079	6,429	6,270	4,421	5,493
Syria	—	9	441	410	47	n.a.
Philippine Republic—						
Crude	n.a.	5,113	6,348	7,259	2,943	8,931
Refined	n.a.	1,973	1,012	485	170	704
French Polynesia	431	255	291	285	350	332
New Caledonia	434	306	464	449	444	411

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

(c) See under French West Africa.

(b) Former British Protectorate only.

SELENIUM
PRODUCTION OF SELENIUM

Lb. avdp.

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Northern Rhodesia (a) ..	17,160	32,055	24,206	24,388	33,448	46,827
Canada	427,109	330,389	321,392	306,990	368,107	562,272
Australia	2,455	2,581	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
OTHER COUNTRIES						
Belgium (b)	61,068	81,571	24,471	48,900	124,600	72,500
Finland	7,580	8,370	9,220	13,051	13,196	11,358
Sweden	139,841	168,532	143,054	84,135	133,170	176,880
Mexico	132,758	201,886	175,480	107,580	8,891	6,945
United States (c) (d) ..	699,296	928,400	(e)1,077,400	(e) 727,400	(e) 799,097	(e) 620,000
Peru	7,425	3,944	6,951	8,419	8,155	10,681
Japan	127,055	162,917	154,337	182,410	229,488	278,237
WORLD'S TOTAL ..	1,621,700	1,920,700	1,940,000	1,500,000	1,720,000	1,790,000

(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: 1955—152,317 lb.; 1956—188,700 lb.; 1957—*n.a.*; 1958—*n.a.*; 1959—*n.a.*; 1960—*n.a.*

(e) Including secondary.

EXPORTS OF SELENIUM

Lb. avdp.

Exporting Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Rhodesia and Nyasaland (a)	17,160	32,055	24,206	24,388	33,448	46,827
Canada (b)	334,215	409,729	228,051	250,351	325,712	404,410
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.	61,068	81,571	24,471	48,900	124,600	72,500
Germany (Federal) ..	14,771	32,628	49,384	63,300	70,300	50,500
Sweden	134,482	138,891	99,208	117,000	161,000	165,000
Mexico	132,758	201,866	175,267	103,562	—	—
Peru	6,726	4,839	5,284	9,339	8,084	7,820
Japan	<i>n.a.</i>	64,351	66,084	108,410	105,019	88,749

(a) Contained in copper slimes exported for treatment.

(b) Including salts.

IMPORTS OF SELENIUM

Lb. avdp.

Importing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom ..	179,088	193,150	141,864	122,987	201,167	308,174
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.	2,205	7,496	4,409	2,400	2,000	44,300
France (b)	45,415	68,784	42,108	50,700	50,500	58,600
Germany (Federal) ..	137,789	120,152	107,806	141,800	162,500	248,200
Italy	7,496	12,846	13,889	16,676	24,700	47,000
Sweden	2,205	41,881	<i>n.a.</i>	<i>n.a.</i>	4,000	68,000
United States (a) ..	191,928	234,969	172,678	204,311	273,929	175,761
Brazil	7,198	4,273	5,062	4,830	4,793	7,383
Peru	90	22	183	44	49	148

(a) Including salts.

(b) Including tellurium.

SILLIMANITE, Etc.

PRODUCTION OF SILLIMANITE, ETC.

Long tons

Producing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Bechuanaland Protectorate—						
Kyanite	750	876	107	—	—	—
Kenya—						
Kyanite	2,706	—	—	{	—	708
Mullite					536	755
South West Africa—						
Kyanite and sillimanite	214	1,961	3,473	2,665	2,896	1,284
Union of South Africa—						
Andalusite	17,285	27,004	15,892	13,024	3,343	9,154
Sillimanite			28,313	17,779	40,935	52,575
India—						
Kyanite	11,741	20,135	23,504	(r) 26,615	16,238	19,838
Sillimanite	2,423	4,637	7,417	13,845	7,574	8,349
Australia—						
Kyanite, sillimanite and andalusite (a) ..	2,679	2,181	2,302	1,696	3,633	1,524
OTHER COUNTRIES						
United States—						
Kyanite (b)	r 25,000	r 29,000	r 29,000	r 20,000	24,000	24,000
Korea (South)—						
Andalusite	—	—	—	1,218	2,177	241

(a) In addition the following amounts of kaolinised sillimanite were produced (long tons):
1955—2,948; 1956—2,169; 1957—2,315; 1958—1,823; 1959—1,969; 1960—2,401.

(b) Estimated.

EXPORTS OF SILLIMANITE, ETC.

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	19 60
COMMONWEALTH COUNTRIES						
Bechuanaland Protectorate—						
Kyanite	750	876	107	—	—	—
Kenya—						
Kyanite	2,855	293	—	536	1,787	1,750
South West Africa—						
Kyanite and sillimanite	67	808	3,732	2,479	1,929	142
Union of South Africa—						
Andalusite and sillimanite	10,663	17,571	30,437	21,262	37,699	49,230
India—						
Kyanite	26,948	26,564	24,457	19,158	22,335	(a) 24,609
Sillimanite	3,745	5,251	5,624	9,458	4,413	(a) 6,987
OTHER COUNTRIES						
France—						
Mullite	11	221	307	251	20	21
Italy—						
Mullite	125	343	149	—	299	30
United States—						
Kyanite, etc.	1,532	1,188	2,311	2,226	2,441	2,906

(a) Years ended March 31 following that stated.

IMPORTS OF SILLIMANITE, ETC.*

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Kyanite, sillimanite, etc.	(a) 13,300	(a) 17,700	(a) 19,000	(a) r 15,900	(a) 15,100	27,966
Canada—						
Kyanite, etc.	1,181	1,419	1,520	1,065	1,677	1,703
Australia (b)—						
Kyanite	402	118	656	534	—	551
Sillimanite	36	98	188	144	101	293
OTHER COUNTRIES						
France—						
Kyanite	1,770	(c) 2,592	(c) 4,346	(c) 3,817	(c) 1,230	(c) 3,887
Mullite	1,170	345	554	778	544	1,001
Germany (Federal)—						
Kyanite and sillimanite	8,997	8,381	12,535	9,253	10,388	12,939
Mullite	495	208	391	98	74	59
Italy—						
Kyanite and mullite ..	2,251	4,478	3,134	6,258	3,030	3,945
United States—						
Kyanite, sillimanite, etc.	6,769	6,206	5,356	1,754	5,030	5,403

*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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom	29,706	27,878	27,337	20,553	13,655	7,097
Bechuanaland Protectorate	189	215	35	44	41	25
Ghana (a)	39,284	32,966	25,390	45,762	16,839	14,160
Kenya	1,770	54,689	23,051	44,146	46,420	35,797
Nigeria	172	111	200	—	—	—
Northern Rhodesia (b)	412,191	610,370	520,543	558,535	935,678	698,127
Southern Rhodesia	76,837	76,870	74,179	264,630	328,947	392,026
South West Africa (c)	1,279,213	1,880,055	1,725,648	1,395,110	1,740,568	n.a.
Swaziland	—	14	—	—	—	58
Tanganyika (d)	343,468	561,848	521,623	737,578	535,366	595,357
Uganda (a)	70	52	21	37	54	109
Union of South Africa	1,461,336	1,598,279	1,767,472	1,795,384	2,020,780	2,226,204
Canada	27,984,204	28,431,847	28,823,298	31,163,470	31,923,969	32,328,143
India	153,935	104,604	125,838	109,800	124,800	132,700
Australia	14,572,033	r14,616,803	r15,811,129	r16,339,812	15,160,631	15,174,656
Fiji	19,707	24,302	24,425	25,375	23,652	31,301
New Guinea	44,713	42,549	38,101	25,065	36,830	33,060
New Zealand	27,930	950	1,279	2,339	4,873	1,353
TOTAL	46,447,000	r48,064,000	r49,510,000	r52,528,000	52,913,000	53,000,000
OTHER COUNTRIES						
Austria	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	224,573	318,453	373,592	560,709	522,739	390,374
France	628,065	541,869	703,590	770,270	944,750	987,000
Germany (Federal)	2,226,117	2,197,375	2,133,973	2,112,304	1,897,700	1,842,600
Germany (East) (e)	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000
Greece	77,869	79,091	93,462	99,410	150,300	(e) 154,300
Italy	838,250	1,008,400	937,210	1,020,700	894,500	845,400
Norway	70,700	55,000	63,000	—	—	—
Portugal	58,900	57,550	62,308	45,783	54,140	52,920
Spain	1,473,629	1,402,801	1,345,734	1,774,900	2,206,700	1,774,600
Sweden	2,397,738	2,562,414	2,512,163	2,944,300	3,098,100	2,659,500
Yugoslavia (h)	2,983,600	2,760,000	2,589,700	3,751,700	2,827,300	3,024,800
Algeria (g)	225,000	230,000	235,000	225,000	400,000	400,000
Congo Republic	4,083,000	3,794,000	3,044,900	3,794,000	4,758,000	3,990,000
Morocco	2,315,000	2,250,000	2,411,250	2,411,000	1,234,303	1,097,273
Mozambique	—	42	—	—	—	44
Tunisia	91,726	86,485	113,556	135,194	43,339	34,400
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 300,322; 527,860; 500,945; 719,250; 512,728 and 572,428 fine troy ounces in 1955; 1956; 1957; 1958; 1959 and 1960 respectively.

(e) United States Bureau of Mines' estimate.

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

(g) Estimated.

(h) Refined.

PRODUCTION OF SILVER (cont.)

Fine troy ounces

Producing Country	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Cuba	259,440	284,202	(a) 252,728	(a) 325,278	(a) 215,000	(a) 121,415
Guatemala	343,111	533,179	528,436	320,621	(c) 88,000	663,121
Honduras	1,797,394	2,030,008	2,260,433	2,762,932	3,167,376	2,947,021
Mexico	47,957,655	43,078,040	47,149,514	47,592,360	44,075,452	44,526,460
Nicaragua	268,316	258,521	230,081	304,277	274,993	326,673
Salvador	230,054	167,740	172,306	197,629	199,080	76,809
United States	37,197,742	38,948,121	38,164,915	34,111,027	31,194,006	30,766,327
Argentina	1,414,633	1,671,838	1,350,331	1,543,200	1,549,600	1,671,838
Bolivia (b)	5,851,274	7,543,304	5,375,090	6,051,284	4,503,770	4,887,140
Brazil	140,113	171,524	348,160	185,313	225,050	290,186
Chile	1,580,200	2,106,200	1,672,100	1,765,642	1,949,700	n.a.
Colombia	112,036	110,729	106,494	105,162	102,678	134,331
Ecuador	47,500	294,000	34,800	46,100	n.a.	n.a.
Peru	22,947,625	22,972,766	24,845,258	25,918,353	27,225,216	30,308,665
Burma	1,537,895	1,365,154	1,526,810	1,487,264	1,969,954	1,984,263
Formosa	63,890	53,830	82,870	52,320	60,900	52,600
Japan	5,948,627	6,166,963	6,543,673	6,552,032	6,650,930	6,910,000
Korea (South)	79,620	196,415	277,346	247,788	241,900	329,640
Korea (North) (c)	160,000	260,000	320,000	320,000	320,000	320,000
Philippine Republic	502,069	541,168	479,216	497,987	504,085	1,133,343
TOTAL*	153,000,000	153,000,000	156,000,000	157,000,000	151,000,000	154,000,000
WORLD'S TOTAL*	199,000,000	201,000,000	205,000,000	210,000,000	204,000,000	207,000,000

*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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Refined bullion..	11,392,486	} 75,836,726	39,331,255	12,390,683	10,177,065	6,211,870
Unrefined bullion ..	—					
Ghana—						
Bullion	39,284	32,966	25,390	45,762	16,839	14,160
Kenya—						
Refined bullion..	—	—	22,960	44,146	46,411	33,865
Rhodesia and Nyasaland—						
Bullion	80,128	73,477	74,079	75,200	311,688	76,096
South West Africa—						
Concentrates (a) ..	1,279,214	1,264,279	1,789,323	1,719,990	1,966,995	1,004,920
Tanganyika—						
Concentrates	300,322	527,860	500,945	719,250	512,728	591,239
Refined bullion..	43,292	35,020	20,520	18,552	22,818	23,040
Uganda—						
Bullion	70	52	21	37	54	109
Union of South Africa—						
Bullion	643	634,266	1,318,673	1,125,205	1,860,220	1,570,306
Canada—						
Ore, concentrates, etc.	5,873,873	6,924,414	5,979,459	5,098,788	6,814,865	8,897,402
Bullion	16,598,577	14,341,753	12,799,990	16,026,550	15,140,830	12,761,063
Hong Kong—						
Bullion	1,033,000	1,322,000	943,000	677,000	434,000	488,817
India—						
Bullion	<i>n.a.</i>	<i>n.a.</i>	33,356,619	—	—	—
Malaya—						
Bullion	502,000	531,500	946,500	777,000	1,023,000	1,087,500
Australia (b)—						
Ores and concentrates	1,964,688	1,866,866	2,370,890	2,794,100	2,495,782	2,362,204
Silver-lead bullion ..	3,363,832	2,683,035	4,797,845	3,991,803	4,775,248	3,941,164
Bullion, refined..	6,029,283	6,450,622	16,521,195	3,040,383	3,500,045	3,404,372
do. unrefined ..	84,582	3,000	46,690	8,790	—	—
Beaten, rolled or drawn	33,290	31,734	2,584	29,651	40,254	12,660
Fiji—						
Bullion	12,300	4,842	1,360	9,368	6,007	19,652
New Guinea (b)—						
Bullion	46,922	42,950	41,354	34,534	23,864	40,733
New Zealand—						
Concentrates	8,584	—	—	—	—	—
Scrap, sweepings, etc. .	—	1,600	—	—	—	—
Beaten, rolled or drawn	3,000	300	—	—	—	—
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Bullion and scrap ..	2,432,000	3,778,000	3,858,000	4,315,000	11,545,000	11,358,000
Denmark—						
Bullion	40,000	35,000	49,000	48,000	50,000	55,000
Beaten, rolled or drawn	600	300	1,100	2,000	2,000	16,000
France—						
Bullion and scrap ..	2,325,000	4,261,000	2,432,000	2,334,000	1,454,000	1,359,000
Beaten, rolled or drawn	390,000	258,000	447,000	358,000	456,000	799,000

*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	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (Federal)—						
Bullion	9,017,000	13,447,000	18,955,000	13,866,000	15,829,000	14,872,000
Italy—						
Bullion and scrap ..	1,000	—	500	57,000	—	<i>n.a.</i>
Netherlands—						
Bullion and scrap ..	18,768,000	19,798,000	5,268,000	4,949,000	1,680,000	631,000
Beaten, rolled or drawn	532,000	439,000	430,000	508,000	416,000	381,000
Spain—						
Bullion	—	—	—	780,000	2,588,000	<i>n.a.</i>
Sweden—						
Bullion	565,000	589,000	536,000	1,983,000	1,213,000	997,000
Switzerland—						
Bullion	169,000	16,000	157,000	331,000	72,000	38,000
Yugoslavia—						
Bullion	1,756,000	2,181,000	1,922,000	2,032,000	1,901,000	2,293,000
Congo Republic—						
Bullion	34,000	34,000	29,000	39,000	30,000	<i>n.a.</i>
Morocco—						
Bullion	525,000	587,000	79,000	200	—	—
Guatemala (a)—						
Ore and base bullion ..	213,806	358,353	251,294	189,000	2,000	—
Honduras—						
Ore and base bullion ..	1,962,532	1,921,672	2,230,839	2,762,932	2,792,165	2,584,984
Cuba (a)—						
Bullion, etc.	366,673	216,489	252,728	325,000	215,000	121,000
Mexico—						
Bullion, etc.	38,831,000	33,753,000	37,323,000	36,372,000	38,889,000	34,430,000
Nicaragua—						
Bullion	235,000	221,000	209,000	283,000	237,000	212,000
Salvador—						
Bullion	212,000	134,000	164,000	192,000	182,000	78,000
United States—						
Ore and base bullion ..	71,074	2,058,401	1,372,682	1,640,000	103,000	291,000
Refined bullion	4,821,635	3,442,479	8,926,674	1,093,000	9,077,000	26,302,000
Argentina—						
Bullion, etc.	—	—	360,000	590,000	522,000	641,000
Bolivia—						
Ores, etc.	5,851,274	7,543,304	5,375,090	6,051,284	4,504,126	4,887,138
Chile—						
Ores	1,533,437	1,546,310	1,448,610	1,399,052	1,562,105	<i>n.a.</i>
Colombia—						
Bullion and scrap ..	14,000	79,000	15,000	391,000	—	126,000
Ecuador (a)—						
Ore and base bullion ..	42,491	49,689	53,138	63,000	107,000	94,000
Peru—						
Ores and concentrates	8,961,158	10,640,940	10,475,843	12,537,472	14,502,819	15,511,489
Bullion	11,004,196	10,083,953	10,233,361	11,473,233	11,857,528	13,875,220
Matte, slag, etc. ..	342,634	536,024	427,221	376,985	501,518	400,750
Burma—						
Bullion	340,240	1,303,691	1,155,593	1,289,738	1,822,709	1,525,295
Japan—						
Bullion and scrap ..	(b) 963,000	644,000	37,000	174,000	24,000	10,000
Philippine Republic (a)—						
Ore and base bullion ..	278,512	249,437	285,496	263,000	158,000	2,195,000

(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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ores	4,472,000	4,326,000	5,138,000	5,586,000	4,249,000	4,007,267
Unrefined bullion	2,155,316	4,004,141	2,926,311	1,720,751	1,593,867	1,467,891
Refined bullion	27,296,133	16,286,379	13,032,752	11,560,848	16,831,670	27,814,813
Malta—						
Bullion	4,400	9,500	6,000	11,200	10,200	7,100
Ghana—						
Bullion	105,440	65,907	40,973	23,959	16,475	32,025
Nigeria—						
Bullion, etc.	24,030	16,730	6,433	5,329	45,337	32,189
Sierra Leone—						
Bullion	1,428	1,380	2,125	160	—	2,305
Union of South Africa—						
Bullion	6,242	4,225	5,571	—	38,000	—
Zanzibar—						
Bullion	—	600	60	3	—	<i>n.a.</i>
Canada—						
Bullion	87,128	1,010,180	1,895,131	2,701	2,807,774	3,849,115
British Guiana—						
Bullion	—	1,300	1,600	2,400	2,000	4,100
British West Indies—						
Jamaica—						
Bullion	2,200	1,100	1,850	1,500	2,200	—
Trinidad and Tobago—						
Bullion	1,700	6,000	4,852	8,481	12,564	9,306
Ceylon—						
Bullion	5,000	2,000	523,000	5,000	14,500	7,600
Cyprus—						
Bullion	6,300	4,800	22,500	36,300	57,000	52,000
Hong Kong—						
Bullion	134,000	162,000	22,000	18,000	60,000	24,000
India—						
Bullion	399	10,822	68	2,002	4,079	(b) 37,426
Malaya—						
Bullion	600	400	20	1,000	—	5,200
Sarawak—						
Bullion	2,400	60	100	650	160	—
Australia (a)—						
Matte	4,148	2,900	—	—	—	—
Bullion	89,315	83,385	73,190	87,638	63,279	89,814
Beaten, rolled or drawn	9	19	—	—	—	—
New Zealand—						
Bullion	41,945	41,038	64,736	58,895	62,072	70,158
Beaten, rolled or drawn	4,000	3,000	130,000	6,200	9,000	13,000
Irish Republic—						
Bullion	2,100	1,100	—	—	1,400	—

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

(a) Years ended June of that stated.

(b) Years ended March 31 following that stated.

IMPORTS OF SILVER (cont.)

Fine troy ounces

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
Austria—						
Bullion	1,174,000	1,564,000	5,559,000	5,255,000	3,069,000	954,000
Belgium-Luxemburg						
E.U.—						
Bullion and scrap ..	724,000	1,952,000	3,679,000	1,477,000	1,692,000	2,620,000
Denmark—						
Bullion	1,060,000	1,119,000	1,393,000	1,473,000	1,360,000	1,189,000
Beaten, rolled or drawn	1,141,000	1,168,000	1,066,000	1,250,000	1,662,000	1,893,000
Finland—						
Bullion, etc.	335,000	1,201,000	1,172,000	766,000	660,000	723,000
France—						
Bullion and scrap ..	9,116,000	12,526,000	10,856,000	11,380,000	19,094,000	26,526,000
Beaten, rolled or drawn	173,000	672,000	212,000	143,000	157,000	275,000
Germany (Federal)—						
Bullion	24,218,000	27,367,000	34,355,000	30,093,000	30,455,000	35,109,000
Italy—						
Bullion and scrap ..	7,020,000	5,447,000	5,535,000	5,055,000	7,244,000	n.a.
Netherlands—						
Bullion and scrap ..	1,608,000	1,622,000	1,390,000	1,234,000	2,780,000	1,308,000
Beaten, rolled or drawn	92,000	93,000	173,000	134,000	395,000	779,000
Norway—						
Bullion	974,000	829,000	821,000	691,000	864,000	988,000
Beaten, rolled or drawn	992,000	1,103,000	960,000	1,210,000	1,207,000	1,290,000
Portugal—						
Bullion and scrap ..	2,010,000	2,853,000	4,065,000	3,272,000	2,559,000	2,808,000
Beaten, rolled and drawn	18,000	11,000	14,000	22,000	19,000	16,000
Sweden—						
Bullion	901,000	1,287,000	1,245,000	481,000	354,000	643,000
Switzerland—						
Bullion	5,400,000	4,331,000	6,506,000	5,173,000	3,041,000	3,792,000
Algeria—						
Bullion and scrap ..	121,000	124,000	135,000	100,000	64,000	38,000
Beaten, rolled or drawn	196,000	140,000	101,000	122,000	100,000	114,000
Congo Republic—						
Bullion	46,000	35,000	26,000	48,000	67,000	n.a.
Egypt—						
Bullion and scrap ..	16,500	11,000	1,000	3,000	n.a.	n.a.
Guatemala—						
Bullion	54,000	204,000	80,000	323,000	n.a.	n.a.
United States—						
Ore and base bullion ..	55,658,175	63,125,065	99,925,905	134,650,000	39,759,000	43,404,000
Refined bullion	28,861,015	99,706,716	106,192,994	31,316,000	29,329,000	17,253,000
Brazil—						
Bullion	284,000	434,000	568,000	345,000	313,000	500,000
Colombia—						
Bullion and scrap ..	1,041,000	812,000	320,000	—	9,000	122,000
Japan—						
Bullion and scrap ..	n.a.	31,000	52,000	100	1,426,000	6,834,000
Lebanon—						
Bullion and scrap ..	5,000	6,000	9,000	8,500	6,500	74,000
Turkey—						
Bullion, etc.	25,000	500	—	—	5,000	36,000

STRONTIUM MINERALS

PRODUCTION OF STRONTIUM MINERALS

Long tons

Producing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Celestite	4,750	9,200	6,900	5,600	6,000	6,604
Pakistan—						
Celestite	434	300	854	455	664	1,332
OTHER COUNTRIES						
Italy—						
Celestite	69	209	1,094	628	315	<i>n.a.</i>
Morocco—						
Strontium minerals ..	—	—	266	1,004	389	<i>n.a.</i>
Mexico (a)—						
Celestite	1,786	2,130	1,820	2,135	2,269	2,650
United States—						
Strontium minerals ..	158	3,591	<i>n.a.</i>	—	<i>n.a.</i>	—
Argentina—						
Celestite	—	437	<i>n.a.</i>	214	<i>n.a.</i>	<i>n.a.</i>

Strontianite is also produced in Germany.

(a) Exports.

EXPORTS OF STRONTIUM MINERALS, ETC.

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Celestite (a)	3,619	6,357	4,128	3,884	5,309	2,941
OTHER COUNTRIES						
France—						
Strontianite	5	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Oxide	—	—	—	—	5	1
Germany (Federal)—						
Strontianite and celestite	12	27	—	—	—	—
Italy—						
Strontianite and celestite	—	—	—	—	20	242
Tunis—						
Strontianite	689	—	—	—	—	—
Mexico—						
Celestite	1,786	2,130	1,820	2,135	2,269	2,650

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

IMPORTS OF STRONTIUM MINERALS, ETC.

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
France—						
Celestite	120	<i>n.a.</i>	<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>	<i>n.a.</i>
Germany (Federal)—						
Strontianite and celestite	438	637	445	317	446	280
United States—						
Strontianite and celestite	5,468	8,428	5,826	r 5,970	7,267	5,523
Strontium compounds . .	3	2	—	5	1	—
Turkey—						
Strontium compounds . .	2	<i>n.a.</i>	<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	Estimated Sulphur Content						1960	1959	1958	1957	1956	1955
	1955	1956	1957	1958	1959	1960						
COMMONWEALTH COUNTRIES												
United Kingdom—												
Spent oxide	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	126,129	130,248	129,821	101,399
Anhydrite	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	(a) 156,654	(a) 156,489	(a) 146,909	280,912	101,399
Other (b)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	49,561	39,142	52,973	45,891	53,173
Canada—												
Smelter gas	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	215,228	209,931	210,793	200,408	247,348
Hydrogen sulphide (d) (g)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	84,265	83,337	31,057	23,193	130,050
Trinidad (h)	5,000	5,000	5,000	5,000	5,000	5,000	5,000	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.	n.a.	128,700	142,000	132,800	122,600	121,200
lead concentrates	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	23,000	25,000	23,000	22,000	22,000
Spent oxide	13,778	14,379	12,857	10,495	82,807	779,000	779,000	5,154	5,751	5,877	5,511	3,655
OTHER COUNTRIES												
France—												
Sulphur (d)	—	—	28,000	428,024	82,807	779,000	779,000	n.a.	n.a.	—	—	n.a.
Germany (Federal)—												
Refined sulphur	n.a.	77,126	76,568	78,474	82,807	82,807	82,807	75,565	76,568	77,126	n.a.	78,474
Germany (East)—												
Sulphur	93,985	92,748	100,190	106,153	100,130	100,130	100,130	104,679	100,190	92,748	93,985	106,153
Greece—												
Sulphur rock	28,575	9,930	22,848	—	—	—	—	—	2,700	1,200	3,400	—
Italy—												
Sulphur rock	1,756,314	1,699,905	1,681,801	1,326,076	79,703	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Fused (e)	181,628	168,060	175,981	119,272	79,703	79,703	79,703	154,137	175,981	168,060	181,628	79,703
Ground sulphur rock (e)	21,560	22,213	19,904	21,342	20,932	20,932	20,932	5,600	6,000	6,700	6,500	6,400
Norway (c)	98,863	95,381	95,148	77,111	71,256	71,256	71,256	89,027	95,353	95,353	98,863	77,034
Portugal (c)	15,465	16,922	16,675	15,888	10,915	10,915	10,915	17,147	16,458	16,702	15,264	15,682
Spain—												
Sulphur rock	45,819	46,181	29,585	25,922	16,691	16,691	16,691	3,055	3,956	5,743	5,531	2,851
Refined sulphur (f)	57,079	64,803	62,174	25,251	40,194	40,194	40,194	25,251	62,174	64,803	57,079	25,719

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

(c) Sulphur recovered from pyrites.
(d) Recovered from natural gas.
(e) Derived from sulphur rock above.

(g) For sulphuric acid manufacture only.
(h) Including sulphur recovered from petroleum refineries but excluding sulphur recovered from zinc concentrates.

PRODUCTION OF SULPHUR (cont.)

Long tons

Producing Country and Description	Estimated Sulphur Content											
	1955	1956	1957	1958	1959	1960	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES (cont.)												
Sweden—												
Sulphur	28,419	30,338	33,309	33,465	37,576	n.a.	28,419	30,338	33,309	33,465	37,576	n.a.
Egypt—												
Sulphur ore .. .	n.a.	n.a.	—	n.a.	n.a.	n.a.	605	99	—	7,127	6,013	n.a.
By-product sulphur (a) ..	3,755	2,950	3,445	n.a.	2,403	17,716	3,755	2,950	3,445	n.a.	2,403	17,716
Mexico—												
Mined (f) .. .	484,452	758,412	1,024,066	1,223,055	1,293,186	1,261,574	484,452	758,412	1,024,066	1,223,055	1,293,186	1,261,574
Refined sulphur (e) .. .	25,728	14,577	41,642	27,837	45,054	46,839	25,728	14,577	41,642	27,837	45,054	46,839
United States—												
Crude sulphur (f) .. .	5,738,978	6,423,883	5,491,212	4,643,243	4,553,634	4,942,935	5,738,978	6,423,883	5,491,212	4,643,243	4,553,634	4,942,935
Sulphur ore (g) .. .	199,899	212,476	276,868	6,292	331,237	379,067	60,902	60,402	87,313	2,334	86,182	94,357
Smelter gas (b) .. .	992,903	1,064,406	1,194,230	1,101,754	969,678	1,056,890	324,580	347,954	390,394	359,723	316,600	345,075
By-product sulphur (c) ..	401,134	467,136	512,388	641,890	688,487	769,319	398,780	464,758	510,511	640,096	686,407	766,566
Hydrogen sulphide and liquid sulphur dioxide c	106,129	102,300	102,157	106,527	104,887	114,359	93,712	89,428	88,446	92,400	88,046	95,395
Argentina—												
Refined sulphur .. .	n.a.	18,587	16,981	25,221	25,207	39,265	n.a.	18,587	16,981	25,221	25,207	39,265
Bolivia (d) .. .												
Refined sulphur .. .	3,976	3,418	783	392	—	1,175	3,976	3,418	783	392	—	1,175
Chile—												
Refined sulphur .. .	50,376	37,271	17,400	n.a.	14,069	n.a.	50,124	37,085	17,300	n.a.	14,001	n.a.
Colombia—												
Refined sulphur .. .	5,400	5,000	5,157	6,690	9,000	9,000	5,400	5,000	5,157	6,690	9,000	9,000
Formosa—												
Refined sulphur .. .	4,854	7,864	9,433	6,178	5,533	4,797	4,854	7,864	9,433	6,178	5,533	4,797
Iran—												
Sulphur .. .	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	18,000	18,000	16,665	12,800	n.a.	n.a.
Japan—												
Refined sulphur .. .	199,675	243,312	253,547	178,052	215,668	243,683	199,675	243,312	253,547	178,052	215,668	243,683
Philippine Republic (h) ..	n.a.	—	n.a.	n.a.	—	n.a.	7,021	—	2,308	n.a.	—	43
Turkey—												
Refined sulphur .. .	11,318	13,680	12,900	12,622	13,174	16,830	11,307	13,666	12,900	12,609	13,161	16,813

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.
 (c) Recovered from petroleum refineries. (g) Other mines.
 (d) Exports. (e) Recovered from natural gas. (h) Including sulphur recovered from gold and silver mines.
 (f) Frasch-process mines.

EXPORTS OF SULPHUR

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom ..	2,102	1,293	1,238	1,511	3,145	4,148
Union of South Africa ..	109	237	281	67	109	65
Canada	2,274	3,867	11,040	6,792	23,684	127,715
Trinidad and Tobago ..	2,208	—	—	—	—	—
Hong Kong	—	—	40	197	148	122
Malaya	3	21	93	1	25	43
Australia—						
Zinc concentrates						
(S content) (a) ..	69,300	68,400	82,900	67,100	49,500	82,500
New Zealand	5	7	8	—	17	8
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Crude	3	168	442	3	1,014	875
Refined	4,592	3,948	2,130	712	2,758	2,457
France—						
Crude	12,727	8,490	9,042	56,011	220,358	412,821
Unrefined ground ..	1,126	1,946	2,037	2,426	3,077	4,542
Refined lump	5,379	1,553	877	905	791	770
Flowers of sulphur ..	18	1,903	3,943	5,563	5,022	4,920
Precipitated sulphur ..	1	542	578	20	—	2
Germany (Federal) ..	19,700	24,178	25,879	26,251	25,582	19,956
Germany (East)	29,588	17,073	19,578	15,800	14,306	23,554
Italy—						
Crude	44,306	122,500	122,498	30,116	28,737	25,824
Refined	5,658	6,586	25,541	5,378	8,715	23,098
Flowers of sulphur ..	413	555	405	746	440	517
Precipitated sulphur ..	17	—	1	3	29	1
Netherlands—						
Crude	4,625	3,891	3,687	5,972	8,449	5,236
Refined	24	102	147	26	30	29
Norway	77,802	70,452	69,729	54,298	64,424	56,389
Portugal	573	469	1,294	645	405	442
Spain—						
Crude	—	—	5	—	—	n.a.
Refined	—	—	3	10	—	n.a.
Sweden	1,295	1,065	701	368	411	432
U.S.S.R. (a)	29,200	25,100	40,300	41,200	51,000	112,000
Mexico	177,500	493,990	863,344	1,005,498	1,064,780	1,233,691
United States—						
Crude	1,600,951	1,651,307	1,578,359	1,577,919	1,611,908	1,774,196
Refined and flowers of sulphur	34,701	24,024	14,620	24,207	23,699	11,017
Bolivia	3,976	3,418	783	392	—	1,175
Chile	47,700	26,131	8	346	946	n.a.
Colombia	98	—	492	—	—	—
Ecuador	2,211	316	n.a.	n.a.	n.a.	n.a.
Peru	98	49	—	—	—	—
Japan	5,387	595	43	9,026	119	217
Turkey	837	5,413	—	—	—	—

(a) Estimated amount recoverable.

IMPORTS OF SULPHUR

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Sulphur	358,654	352,480	322,814	326,946	377,440	486,896
Wastes and residues ..	<i>n.a.</i>	12,129	13,275	8,929	14,765	15,459
Malta—						
Crude	32	2	50	126	27	30
Flowers of sulphur ..	(£8,060)	(£4,460)	(£3,800)	(£4,503)	(£8,225)	(£8,522)
Kenya	111	131	203	236	225	162
Mauritius	1	93	94	2	37	80
Rhodesia and Nyasaland	19	32	76	46	78	8
Tanganyika	149	236	304	230	235	269
Uganda	602	261	854	495	215	1,050
Union of South Africa ..	93,910	111,295	104,064	126,821	114,028	114,595
British Guiana	—	—	1	1	—	1
Canada	333,352	421,557	372,015	r 335,116	296,812	293,540
Jamaica	4	1	9	5	5	16
Trinidad and Tobago ..	15	22	24	24	6	8,151
Ceylon	3,532	2,438	5,641	2,189	2,794	2,803
Cyprus	383	948	1,272	1,286	1,439	1,256
Hong Kong	1,421	776	859	544	713	558
India	83,589	83,427	115,491	117,928	143,345	(a) 173,579
Malaya	223	277	415	218	1,135	1,107
Pakistan	(a) 773	1,036	1,112	3,091	1,334	3,782
Australia	192,584	205,880	138,083	208,028	174,053	169,547
New Zealand	127,981	85,768	92,270	65,195	88,180	133,246
Irish Republic	286	1,628	5,737	6,649	7,279	18,439
OTHER COUNTRIES						
Austria	16,629	26,763	31,707	44,480	52,853	55,982
Belgium-Luxemburg						
E.U.—						
Crude	78,893	66,810	104,471	95,632	133,578	180,462
Refined	326	381	416	414	568	387
Czechoslovakia	<i>n.a.</i>	25,000	28,000	37,000	58,000	74,000
Denmark	1,061	1,371	2,419	1,445	3,485	6,753
Finland	52,811	59,770	64,268	62,504	69,997	98,722
France—						
Crude	223,616	272,193	299,359	302,612	190,829	144,224
Unrefined ground ..	55	80	152	110	—	69
Refined lump	24	158	1	2	44	33
Flowers of sulphur ..	318	—	—	—	—	—
Precipitated	12	62	29	6	12	16
Germany (Federal)	55,902	62,415	63,844	63,415	100,251	174,622
Greece	12,499	9,290	9,210	8,222	13,188	14,180
Hungary	17,470	13,060	22,403	17,951	18,829	30,290
Netherlands—						
Crude	1,327	6,123	22,318	63,865	57,486	95,330
Refined	961	1,170	1,408	913	1,365	1,251
Norway	187	1,868	4,632	3,363	1,382	7,275
Portugal	2,657	1,602	2,628	1,825	2,710	8,039
Spain—						
Crude	6,193	14,065	—	2,953	14,776	<i>n.a.</i>
Refined, etc.	20	46	21	38	15	<i>n.a.</i>
Sweden	70,495	78,650	68,707	64,645	67,667	77,163
Switzerland—						
Crude and ground ..	75,582	45,551	36,298	42,531	34,832	69,482
Flowers of sulphur ..	257	267	255	170	304	322

(a) Years ended March 31 following that stated.

IMPORTS OF SULPHUR (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
U.S.S.R.	12,300	57,000	92,300	65,200	63,000	49,500
Yugoslavia	5,737	69	3,635	6,843	7,957	13,291
Algeria—						
Crude	25,354	17,352	20,067	24,522	25,307	33,468
Unrefined, ground	649	1,362	1,098	1,611	1,843	1,953
Refined	683	444	431	487	202	369
Flowers of sulphur	9	20	—	82	306	104
Precipitated	—	331	451	23	—	—
Angola	154	69	149	220	197	164
Canary Islands—						
Crude	—	—	1,370	1,968	—	<i>n.a.</i>
Refined, etc.	3,276	3,693	3,732	4,921	4,892	<i>n.a.</i>
Congo Republic	120	294	163	408	135	<i>n.a.</i>
Egypt	6,880	9,135	14,460	7,830	13,223	14,117
Malagasy Republic	34	61	57	36	18	15
Morocco—						
Crude	6,987	3,450	3,992	6,493	9,198	9,194
Unrefined, ground	174	176	140	239	434	487
Refined	2,445	435	215	196	249	558
Flowers of sulphur	10	1,695	2,103	3,147	2,913	2,530
Precipitated	4	113	66	23	13	203
Mozambique	641	882	970	671	411	649
Tunisia—						
Crude and unrefined	23,613	38,125	1,554	7,392	2,137	6,592
Refined and flowers of sulphur	410	268	769	1,616	1,091	657
Costa Rica	39	10	45	12	73	29
Cuba	11,863	17,513	17,637	10,813	<i>n.a.</i>	<i>n.a.</i>
Guatemala	80	125	193	293	<i>n.a.</i>	<i>n.a.</i>
Mexico	8,587	105	207	441	238	173
Netherlands Antilles	4,004	<i>n.a.</i>	<i>n.a.</i>	5,002	4,987	1,501
Nicaragua	129	21	15	105	904	4,143
Salvador	81	95	161	76	15	27
United States	34,627	212,229	499,401	590,687	642,488	738,838
Argentina—						
Crude	—	21,291	43,235	38,558	25,809	29,720
Refined and flowers of sulphur	66	25	103	80	34	24
Brazil—						
Crude	64,269	91,787	98,058	93,970	103,782	137,844
Refined	1,671	1,281	2,199	242	327	242
Flowers of sulphur	134	115	433	—	—	—
Precipitated	53	41	71	47	44	47
Colombia	448	384	250	288	61	68
Ecuador	39	20	19	36	21	<i>n.a.</i>
Peru	3,207	2,502	3,450	4,579	7,954	12,189
Uruguay	6,658	1,215	523	7,084	3,275	6,443
Venezuela	1,670	2,130	2,311	2,332	3,866	2,553
Burma	278	210	1,596	493	535	13,816
Indonesia	10,682	9,941	7,396	7,880	11,254	8,447
Israel	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	44,938	51,231	<i>n.a.</i>
Japan	26	19,117	2,984	151	121	93
Jordan	383	521	475	773	1,189	825
Korea (South)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	2,311	4,263	4,433
Lebanon	982	1,159	1,812	3,863	5,751	3,504
Philippine Republic	1,106	1,814	2,152	2,480	1,374	1,815
Syria	552	619	743	580	853	1,151
Thailand	507	143	1,072	643	591	3,216
Turkey—						
Refined and flowers of sulphur	468	28	223	6	48	227

TALC
PRODUCTION OF TALC
(Including Steatite and Pyrophyllite)

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Great Britain	5,036	3,813	3,800	4,147	5,683	6,468
Swaziland—						
Pyrophyllite	—	—	20	139	900	1,530
Union of South Africa (b)	1,412	1,757	2,066	683	1,341	1,767
Canada (c)	24,250	26,184	31,004	31,612	34,979	37,175
India	42,390	46,855	43,976	45,452	63,467	91,917
Pakistan	259	1,100	1,174	1,586	n.a.	n.a.
Australia—						
Talc	12,567	r 13,160	r 14,441	15,393	16,376	15,314
Pyrophyllite	266	339	358	267	347	259
OTHER COUNTRIES						
Austria	69,558	65,012	72,246	69,709	50,424	80,978
Finland	4,701	7,273	8,267	6,545	7,594	9,829
France	118,467	113,250	129,895	165,753	172,793	172,500
Germany (Federal) ..	49,617	50,425	42,789	42,784	42,736	44,394
Greece	2,070	2,000	2,000	1,752	292	n.a.
Italy	98,475	93,755	98,742	107,772	107,532	120,486
Norway	66,150	61,186	69,859	66,244	68,774	70,000
Portugal	10	85	—	—	217	669
Spain	22,471	27,508	31,331	29,786	27,376	27,547
Sweden	11,244	11,974	11,433	12,218	14,200	15,600
Egypt	6,102	6,880	5,385	6,476	5,989	(a) 5,900
Morocco	—	—	—	4,833	3,496	n.a.
United States—						
Talc	506,472	510,074	467,781	502,401	571,771	544,502
Pyrophyllite	141,482	149,782	143,337	138,818	134,978	111,278
Argentina	23,000	25,000	23,428	17,191	(a) 20,000	(a) 20,000
Brazil	24,276	27,396	20,556	28,074	20,865	19,603
Paraguay (a)	100	100	100	100	100	100
Peru—						
Talc	595	} 3,599	{ 120	152	} 1,512	1,959
Pyrophyllite	2,715						2,280	1,700
Uruguay	1,115	1,410	1,399	1,776	2,085	2,944
Afghanistan	600	803	(d) 700	(d) 700	(d) 700	(d) 700
Formosa	5,185	6,034	5,302	3,283	6,321	10,390
Japan—						
Talc	20,160	30,546	31,991	39,250	39,529	49,927
Pyrophyllite	204,374	278,246	386,857	298,245	438,275	533,068
Korea (South)—						
Talc	6,104	6,168	6,496	9,946	16,380	15,727
Pyrophyllite	4,694	7,837	4,606	5,751	413	6,497
Philippine Republic ..	—	—	—	—	—	5
TOTAL*	1,470,000	1,580,000	1,660,000	r 1,660,000	1,900,000	2,000,000

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

(a) United States Bureau of Mines' estimate.

(b) In addition the following amounts of wonderstone were produced (long tons): 1955—213; 1956—237; 1957—531; 1958—1,121; 1959—350; 1960—624.

(c) Shipments.

(d) Estimated.

EXPORTS OF TALC

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Canada	3,954	2,333	2,101	1,724	1,833	1,482
India	7,869	7,672	7,021	7,101	7,387	(b) 7,498
Malaya	211	280	203	200	574	361
Australia (a)	2,365	2,507	2,604	3,116	2,811	2,838
OTHER COUNTRIES						
Austria	49,010	49,151	50,349	50,772	34,002	62,452
Belgium-Luxemburg						
E.U.	57	75	20	37	33	40
France	36,064	29,054	31,801	29,895	31,618	42,497
Germany (Federal)	926	1,115	1,017	639	1,160	920
Italy	40,939	38,807	39,917	44,300	41,117	49,320
Norway	55,390	51,756	53,294	52,133	53,782	62,020
Sweden	2,739	3,933	1,758	1,764	2,836	1,838
Egypt	2,175	1,501	1,082	1,409	701	1,273
Mexico	—	1	321	182	366	355
United States	31,455	37,797	35,701	52,363	52,456	53,087
Japan	555	423	670	716	810	1,000
Korea (South)—						
Talc	10,374	6,094	5,773	11,783	14,198	6,964
Pyrophyllite	n.a.	n.a.	n.a.	4,888	8,187	8,208

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

IMPORTS OF TALC

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Unground	1,189	1,618	760	262	229	868
Ground	37,661	36,574	37,251	38,000	39,239	41,574
Canada	10,163	14,517	13,225	14,798	16,507	17,101
Ceylon	523	961	1,091	1,969	1,812	1,855
Malaya	3,066	2,952	3,552	2,792	3,953	5,803
Australia (a)	—	233	220	263	253	539
OTHER COUNTRIES						
Austria	412	644	674	400	205	281
Belgium-Luxemburg						
E.U.	10,770	10,119	11,426	11,080	11,576	13,148
Denmark	9,208	8,259	9,142	8,278	7,880	10,750
Finland	2,749	1,736	1,471	1,821	2,785	4,042
France	2,273	2,076	3,851	5,334	4,018	4,831
Germany (Federal)	36,720	37,973	39,234	35,449	39,223	47,681
Italy	1,238	2,438	2,248	1,685	1,959	3,931
Netherlands	12,200	12,325	10,671	8,506	10,511	11,241
Portugal	606	595	844	707	865	914
Sweden	9,350	8,081	8,296	8,239	10,187	9,088
U.S.S.R.	43,200	67,100	69,400	70,000	80,200	81,800
Yugoslavia	165	82	97	195	354	335
Algeria	3,172	1,776	1,744	3,112	2,651	4,317
Congo Republic	190	293	289	253	348	n.a.
Egypt	427	165	6	—	—	2
Malagasy Republic	3	22	4	8	8	5
Morocco	2,046	846	551	837	809	874
Tunisia	452	243	439	544	438	654
Costa Rica	35	38	48	58	62	80
Guatemala	16	14	46	69	n.a.	n.a.
Mexico—						
Talc	2,497	5,698	15,758	28,068	19,328	22,476
Pyrophyllite	n.a.	620	431	896	542	1,485
Salvador	20	16	28	46	26	41
United States	25,964	20,849	18,210	20,438	22,635	21,407
Argentina	—	—	—	1	3	52
Brazil	18	—	10	—	10	5
Chile	105	6	27	41	n.a.	n.a.
Colombia	1,101	1,393	1,503	903	1,129	1,126
Ecuador	188	79	69	309	104	n.a.
Peru	484	300	470	433	465	398
Venezuela	1,018	882	1,053	1,367	1,533	1,212
Japan	20,204	19,414	22,845	24,461	33,296	27,809
Lebanon	47	145	202	196	220	474
Philippine Republic	982	890	1,484	1,544	1,806	2,532
Syria	134	267	292	320	268	n.a.
Thailand	892	432	512	708	931	863
Turkey	118	100	122	153	168	274

(a) Years ended June 30 of that stated.

TANTALUM AND NIOBIUM MINERALS
PRODUCTION OF TANTALUM AND NIOBIUM MINERALS

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Kenya—						
Columbite	—	—	—	1	1	(385 lb.)
Nigeria—						
Tantalite	15	14	18	20	12	11
Columbite	3,146	2,604	1,923	806	1,588	2,047
Sierra Leone—						
Columbite	4	—	—	—	—	—
Southern Rhodesia—						
Tantalum concentrates	2	13	34	43	52	48
Columbite	5	2	—	—	—	—
South West Africa—						
Columbite	5	—	—	—	—	—
Tantalum and niobium concentrates	6	6	11	5	2	5
Swaziland—						
Yttrotantalite	—	—	15	—	—	—
Tanganyika—						
Niobium concentrates (d)	—	—	—	40	100	150
Uganda—						
Tantalite and columbite	15	2	2	3	2	2
Tin-columbite	(515lb.)	—	—	—	—	—
Union of South Africa—						
Tantalite	11	1	1	17	5	6
British Guiana—						
Columbite	2	—	—	—	—	—
Malaya—						
Columbite	236	276	142	159	120	93
Australia—						
Tantalite and columbite	12	71	22	6	8	11
OTHER COUNTRIES						
Norway—						
Niobium concentrates(b)	302	256	190	281	285	341
Portugal—						
Tantalite and columbite	50	27	31	24	18	25
Congo Republic—						
Tantalite and columbite concentrates	432	330	234	243	233	(e) 250
Tin-tantalite-columbite c	2,824	2,717	1,947	1,427	1,238	(f) 670
Congo (Republic of)—						
Tantalite and columbite	1	—	—	—	—	—
Ivory Coast—						
Tantalite and columbite	—	—	—	1	1	3
Malagasy Republic—						
Columbite	17	9	8	r 13	10	10
Mozambique—						
Tantalite	2	3	} 129	168	143	142
Columbite	35	26				
United States—						
Tantalum and niobium concentrates (a) ..	6	97	165	191	84	—

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

(b) 49% Nb₂O₅ in 1955; 51% Nb₂O₅ in 1956; 50% Nb₂O₅ in 1957; 50% Nb₂O₅ in 1958; 50% Nb₂O₅ in 1959; 55% Nb₂O₅ in 1960.

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

(d) Exports. 25% Nb₂O₅.

(e) Imports into the United States.

(f) United States Bureau of Mines' estimate.

PRODUCTION OF TANTALUM AND NIOBIUM MINERALS (cont.)

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Argentina—						
Tantalite and columbite	5	5	—	<i>n.a.</i>	<i>n.a.</i>	—
Bolivia (a)—						
Columbite	1	—	—	—	—	—
Brazil—						
Tantalite	(a) 57	(a) 93	130	} 335	342	{ (a) 115 (a) 12
Columbite	76	176	130			
French Guiana—						
Tantalite and columbite	10	7	1	—	—	—

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

(a) Exports.

EXPORTS OF TANTALUM AND NIOBIUM MINERALS, ETC.

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ferro-niobium and ferro-niobium-tantalum ..	66	163	82	37	71	97
Nigeria—						
Tantalite	9	15	13	24	16	12
Columbite	3,047	2,406	1,145	737	1,882	3,334
Rhodesia and Nyasaland—						
Columbite	8	2	—	—	—	—
Tantalum concentrates	4	19	31	55	32	46
Sierra Leone—						
Columbite	4	—	—	—	—	—
South West Africa—						
Tantalite	2	3	7	10	—	1
Tanganyika—						
Niobium concentrates ..	—	—	—	40	100	150
Uganda—						
Tantalite and columbite	14	4	2	4	1	3
Union of South Africa—						
Tantalite	8	—	1	7	—	1
British Guiana—						
Columbite	3	—	—	—	—	—
Malaya—						
Columbite	187	184	102	311	47	99
Australia (a)—						
Tantalite and columbite	47	41	30	5	9	15
OTHER COUNTRIES						
Germany (Federal)—						
Tantalum metal, etc. ..	(1,800lb.)	(30,000lb.)	(16,800lb.)	(6,200lb.)	(5,700lb.)	(28,400lb.)
Niobium metal, etc. ..	n.a.	n.a.	n.a.	(2,000lb.)	(1,100lb.)	(3,300lb.)
Portugal—						
Tantalite and columbite	79	31	49	49	33	47
Norway—						
Niobium concentrates ..	n.a.	n.a.	n.a.	n.a.	331	255
Congo Republic—						
Tantalite and columbite	651	606	348	476	355	(b) 200
Tantaliferous slag ..	1,427	733	583	1,126	151	806
Malagasy Republic—						
Columbite	22	12	6	6	7	24
Mozambique—						
Columbite	32	18	70	199	135	n.a.
United States—						
Tantalum concentrates	—	1	—	3	5	14
Niobium concentrates	3	5	26	24	7	69
Tantalum metal, etc. ..	(3,390lb.)	(1,721lb.)	(4,877lb.)	(13,476lb.)	(6,141lb.)	(17,559lb.)
Niobium metal, etc. ..	—	—	(21lb.)	(87lb.)	(354lb.)	(3,910lb.)
Tantalum powder ..	(594lb.)	(6,080lb.)	(5,977lb.)	(5,773lb.)	(1,988lb.)	(1,174lb.)
Bolivia—						
Columbite	1	—	—	—	—	—
Brazil—						
Tantalite	57	93	91	95	93	115
Columbite	106	79	30	71	15	12
French Guiana—						
Tantalite and columbite	9	6	1	—	—	—

(a) Years ended June 30 of that stated.

(b) Estimated.

IMPORTS OF TANTALUM AND NIOBIUM MINERALS, ETC.

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Tantalite and columbite	268	744	438	386	369	615
Tantalum metal ..	(1,632lb.)	(4,353lb.)	(5,365lb.)	(3,680lb.)	(1,119lb.)	(3,283lb.)
OTHER COUNTRIES						
France—						
Tantalite and columbite	<i>n.a.</i>	64	24	43	127	155
Germany (Federal)—						
Tantalite	2	1	33	} 160	499	1,209
Columbite	142	261	159			
Tantalum metal, etc. ..	(200lb.)	(4,200lb.)	(7,100lb.)	(15,000lb.)	(4,000lb.)	(4,900lb.)
United States—						
Tantalite	852	586	370	462	291	317
Columbite	4,291	2,544	1,495	1,141	1,516	2,255
Tantalum metal	(620lb.)	(5,514lb.)	(2,430lb.)	(239lb.)	(405lb.)	(1,960lb.)
Niobium metal (a) ..	(325lb.)	(15,144lb.)	(4,061lb.)	(5,458lb.)	(1,160lb.)	(3,133lb.)
Japan—						
Columbite	<i>n.a.</i>	3	77	6	3	86

(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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom ..	1,037	1,066	1,080	1,117	1,189	1,172
Nigeria ..	8,159	9,067	9,534	6,154	5,491	7,677
Northern Rhodesia ..	—	—	—	—	1	—
Southern Rhodesia ..	209	354	283	532	600	609
South West Africa ..	407	475	636	155	5	261
Swaziland ..	27	29	25	15	5	6
Tanganyika ..	40	15	14	r 18	65	138
Uganda ..	59	25	41	37	36	32
Union of South Africa ..	1,283	1,443	1,463	1,416	1,272	1,276
Canada (b) ..	220	337	317	355	334	230
Malaya ..	61,244	62,296	59,293	38,458	37,521	51,979
Australia ..	2,017	2,078	1,952	2,237	2,351	2,282
TOTAL ..	74,702	77,185	74,638	r 50,494	48,870	65,662
OTHER COUNTRIES						
France ..	450	400	429	—	—	21
Germany (Eastern) ..	669	660	(a) 670	(a) 720	(a) 720	(a) 720
Portugal ..	1,445	1,276	1,127	1,249	1,129	772
Spain ..	728	445	498	467	326	196
Cameroun ..	85	85	74	75	62	64
Congo Republic ..	15,303	14,764	14,281	11,214	10,320	(a) 10,106
Congo (Republic of) ..	—	—	—	23	(a) 12	(a) 12
Morocco ..	14	5	8	6	10	10
Niger ..	47	56	50	62	57	53
Mexico ..	605	501	474	544	377	504
United States ..	99	—	—	—	50	10
Argentina ..	89	85	182	205	225	244
Bolivia (c) ..	27,921	26,842	27,796	17,731	23,811	19,404
Brazil ..	146	175	293	409	461	(a) 480
Peru ..	—	3	12	30	—	(a) 12
Burma ..	1,114	785	694	(a) 1,200	(a) 1,400	(a) 1,440
China (a) (d) ..	12,000	14,000	16,000	18,000	21,000	24,000
Indonesia ..	33,366	30,054	27,721	23,200	21,613	22,594
Japan ..	896	926	949	1,108	998	842
Laos ..	253	240	274	301	294	(a) 500
Thailand ..	11,022	12,481	13,528	r 7,718	9,684	12,080
TOTAL* ..	106,000	104,000	105,000	84,000	92,000	94,000
WORLD'S TOTAL* ..	181,000	181,000	180,000	134,000	141,000	160,000

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

(a) Estimated by International Tin Council.

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

(c) Content of ore plus metal exported.

(d) Smelter.

SMELTER PRODUCTION OF TIN

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom ..	27,241	26,434	34,174	32,551	27,229	27,404
Southern Rhodesia ..	22	17	253	503	572	609
Union of South Africa ..	779	756	825	901	726	622
Malaya	70,632	73,263	71,289	45,336	45,729	76,130
Australia	2,004	1,850	1,806	2,121	2,226	2,271
TOTAL	100,678	102,320	108,347	81,412	76,482	107,036
OTHER COUNTRIES						
Belgium	10,432	10,288	9,011	9,304	6,608	8,515
Germany—						
Federal Republic ..	281	683	955	646	1,010	769
Eastern	605	600	(b) 600	(b) 600	(b) 600	(b) 600
Netherlands	26,566	28,197	29,259	17,098	9,592	6,393
Portugal	1,018	1,127	1,072	1,260	1,174	601
Spain	r 752	r 455	r 446	r 449	328	304
Congo Republic ..	3,034	2,772	3,105	2,642	3,291	(b) 3,500
Morocco	8	(b) 12	(b) 12	(b) 12	(b) 12	(b) 12
Mexico	(b) 240	240	207	460	377	465
United States	22,329	17,631	1,564	(b) 5,250	(b) 10,700	(b) 13,500
Argentina	99	61	39	(b) 120	(b) 120	(b) 120
Bolivia (a)	107	404	204	682	917	1,020
Brazil	1,184	1,544	1,401	629	1,227	1,312
China (b)	12,000	14,000	16,000	18,000	21,000	24,000
Indonesia	1,958	300	322	(b) 600	(b) 1,600	(b) 1,800
Japan	981	1,104	1,213	1,260	1,271	1,215
TOTAL*	82,000	79,000	65,000	59,000	60,000	64,000
WORLD'S TOTAL* ..	183,000	181,000	173,000	140,000	136,000	171,000

*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:

	1955	1956	1957	1958	1959	1960

		28,342		22,810		
		29,440		23,700		
		24,262		22,050		

(a) Exports.

(b) Estimated by International Tin Council.

EXPORTS OF TIN, ETC.

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Blocks, ingots, bars and slabs	8,456	7,267	7,332	9,240	29,245	7,772
Soft solder	2,402	2,016	2,053	2,203	1,590	842
Tin-foil	88	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Nigeria—						
Ore	11,399	13,364	13,577	7,626	7,536	10,658
Rhodesia and Nyasaland—						
Ore and concentrates ..	33	177	112	191	108	15
Blocks, ingots and bars ..	10	120	155	383	324	483
South West Africa—						
Ore and concentrates ..	332	524	664	271	—	138
Tanganyika—						
Ore and concentrates ..	53	26	18	28	88	192
Uganda—						
Ore	94	45	51	59	55	46
Union of South Africa—						
Concentrates	1,410	1,990	1,225	1,239	1,273	1,499
Middlings	964	—	—	—	—	—
Canada—						
Concentrates (Sn content)	220	337	317	355	400	<i>n.a.</i>
Hong Kong—						
Ingots	16	15	47	697	110	22
India—						
Crude and scrap	5	479	40	40	60	(c) 65
Malaya—						
Ore	48	—	—	—	—	—
Ingots, blocks, bars, slabs	71,161	73,279	70,604	45,814	44,671	76,366
Australia (b)—						
Ore and concentrates ..	36	123	60	133	50	2
(Sn content)	296	50	50	63	21	20
Ingots, etc.						
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Crude	10,867	9,811	9,459	8,916	6,212	7,981
Scrap	37	146	92	102	140	120
Bars, sheets and wire ..	—	—	—	—	1	—
Denmark—						
Crude	21	28	17	18	151	131
do. (alloys)	5,849	6,012	6,204	4,721	8,580	2,781
Scrap	45	70	2	—	—	2
France—						
Ore	749	638	707	41	32	44
Crude	67	14	22	26	24	35
do. (alloys)	339	291	150	112	91	136
Bars, sheets and wire (a)	36	128	236	287	277	176
Germany (Federal)—						
Crude and scrap (a) ..	2,040	2,015	1,643	3,844	10,294	18,232
Sheets and wire	2	1	4	(a) 92	(a) 34	(a) 51
Tin-foil	4	7	15	21	14	33
Italy—						
Ingots (a)	19	8	49	16	5	131

(a) Including alloys.

(b) Years ended June 30 of that stated.

(c) Years ended March 31 following that stated.

EXPORTS OF TIN, ETC, (cont.)

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Netherlands—						
Crude	26,002	25,650	29,425	24,779	19,721	12,234
Bars and wire	6	9	5	3	3	4
Norway—						
Bars, sheets and wire (a)	169	244	281	223	1	1
Portugal—						
Ore	317	116	156	44	78	145
Bars	19	64	20	86	79	314
Spain—						
Ingots and bars ..	394	197	—	—	251	<i>n.a.</i>
Sweden—						
Crude and scrap ..	36	76	16	179	109	51
Switzerland—						
Crude	21	20	4	37	12	19
Bars, sheets, wire, etc. ..	2	2	4	19	26	—
Scrap	151	227	207	213	180	166
U.S.S.R.—						
Crude	2,100	3,200	18,000	21,900	17,800	11,300
Algeria—						
Ingots, scrap and alloys	24	20	14	8	7	13
Cameroun—						
Ore	177	221	59	118	118	103
Congo Republic—						
Ore	17,026	15,650	16,186	9,829	9,638	(b) 9,000
Ingots	2,582	2,675	2,791	2,539	2,820	2,421
Congo (Republic of)—						
Ore	—	—	—	21	35	20
Niger—						
Ore	70	77	71	84	86	75
Mexico—						
Ores and concentrates	25	4	—	—	—	—
United States—						
Ingots, pigs, etc. ..	254	439	1,112	917	943	608
Scrap (a)	6,048	4,092	9,393	2,119	7,619	4,199
Tubes, sheets, etc. ..	62	217	85	172	94	198
Argentina—						
Ore	—	—	182	—	202	109
Tin-silver ore	—	—	684	653	1,003	723
Bolivia—						
Ores, concentrates, etc.						
(<i>Sn content</i>)	27,814	26,421	27,555	17,023	22,857	17,918
Metal	107	404	204	682	917	1,020
Peru—						
Concentrates						
(<i>Sn content</i>)	2	2	12	12	46	30
Bars, impure						
(<i>Sn content</i>)	—	—	—	3	11	—
Burma—						
Ore and concentrates						
(<i>Sn content</i>)	739	895	987	1,328	1,377	1,395
China—						
Ingots and slabs (b) ..	16,700	15,500	22,000	22,000	22,000	22,000
Indonesia—						
Ore	44,198	43,239	37,572	25,207	24,856	34,227
<i>Sn content</i>	31,768	31,159	27,536	18,184	18,426	24,867
Metal	196	717	84	215	285	1,765
Laos—						
Ore (<i>Sn content</i>) ..	35	180	349	455	386	445
Thailand—						
Ore (<i>Sn content</i>) ..	11,039	12,424	13,345	6,545	10,100	12,657

(a) Including alloys.

(b) Estimated.

IMPORTS OF TIN, ETC.

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore and concentrates ..	61,159	56,911	81,896	64,895	61,494	58,604
Blocks, ingots, bars, slabs and soft solder..	755	1,116	9,567	12,070	(a) 2,775	2,208
Ghana—						
Unwrought and bars, rods, sheets, etc. ..	32	10	14	30	68	17
Kenya (d)—						
Unwrought, scrap and solder	170	120	83	94	112	115
Mauritius—						
Bars, sheets, wire, etc...	9	8	15	5	8	7
Nigeria—						
Unwrought and bars, rods, sheets, etc. ..	448	436	53	29	35	23
Rhodesia and Nyasaland—						
Blocks, ingots and bars..	11	13	22	8	1	74
Tanganyika (d)—						
Unwrought, scrap and solder	85	93	65	69	71	79
Uganda (d)—						
Unwrought, scrap and solder	28	20	22	42	28	39
Union of South Africa—						
Blocks, ingots, bars and rods	480	917	1,066	1,037	621	1,018
Tin-foil	4	1	1	2	1	—
Canada—						
Blocks, pigs and bars ..	4,318	3,774	4,155	3,461	4,184	3,768
Tin-foil	16	7	7	9	8	9
Jamaica—						
Unwrought, including alloys	52	45	24	42	33	28
Aden—						
Bars, sheets, wire, etc...	686	265	476	408	1,324	1,573
Ceylon—						
Ingots, slabs, etc. ..	9	4	11	9	11	17
Tin solder	44	153	38	37	57	38
Cyprus—						
Ingots and bars ..	10	10	14	8	18	9
Hong Kong—						
Slabs and ingots ..	134	142	168	1,170	125	123
India—						
Blocks, ingots, bars and slabs	3,640	4,181	4,717	4,659	4,295	(c) 3,533
Malaya—						
Ore	15,011	14,968	19,394	11,213	11,853	29,704
Bars, sheets, wire, etc...	24	10	9	7	74	153
Pakistan—						
Blocks, ingots, bars and slabs	(c) 113	408	802	142	130	457
Australia (b)—						
Ingots	579	517	830	1,110	1,120	1,455
Leaf and foil	17	16	10	13	15	12
New Zealand—						
Ingots, etc.	395	392	354	383	361	339

(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, ETC. (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
Irish Republic— Ingots, bars, slabs, etc. (a)	81	60	62	64	69	67
OTHER COUNTRIES						
Austria— Crude and alloys ..	523	526	543	514	651	848
Belgium-Luxemburg E.U.— Ore	13,700	13,869	14,087	10,222	8,740	9,955
Crude	2,147	2,538	2,493	2,451	2,026	3,404
Scrap	18	2	19	8	3	10
Bars, sheets and wire ..	1	—	—	—	—	3
Denmark— Crude	5,031	4,831	4,042	3,269	7,198	2,711
do. (alloys)	830	403	308	1,122	521	317
Scrap	1,571	1,891	1,582	531	1,105	282
Sheets, wire, etc. ..	49	53	60	79	18	34
Tin-foil	39	38	49	75	93	84
Finland— Ingots and bars ..	498	493	438	266	606	609
France— Crude	9,455	10,364	11,217	12,794	10,927	11,676
do. (alloys)	30	120	59	26	93	206
Scrap	52	98	97	44	42	47
Sheets, bars, wire ..	22	2	3	1	2	2
Germany (Federal)— Ore	2,022	3,454	9,219	5,514	4,944	3,993
Crude and scrap (a) ..	8,596	8,786	10,231	11,735	20,546	29,535
Greece— Crude	198	187	227	230	198	259
Hungary— Crude	850	878	1,136	762	1,152	940
Iceland— Bars, sheets, wire, etc. .	34	92	34	39	55	50
Italy— Ingots	2,988	3,596	3,441	3,400	3,987	4,647
do. (alloys)	143	102	120	216	195	440
Scrap	5	—	5	5	16	—
Netherlands— Ore	33,197	40,236	40,773	20,214	13,291	8,351
Crude	817	1,654	4,588	9,155	9,261	2,171
Norway— Crude	349	383	351	333	337	208
Bars, sheets, filings, etc.	91	144	107	117	153	157
Poland— Crude	1,187	1,166	4,442	2,299	3,218	1,270
Portugal— Sheets, wire, etc. ..	1	1	1	1	—	5
Spain— Ingots and bars ..	61	45	237	41	295	n.a.
Sweden— Crude	929	947	799	1,280	965	817
Switzerland— Crude	698	884	1,011	919	643	849
Bars, sheets, wire etc. ..	5	5	5	4	3	4
U.S.S.R.— Crude	16,600	15,500	21,700	19,100	20,500	17,500
Yugoslavia— Ingots	550	942	1,585	777	1,010	1,156
Algeria— Crude, sheets, etc. (a)	176	155	219	260	179	152
Egypt— Crude and scrap ..	258	257	543	1,062	646	332

(a) Including alloys.

IMPORTS OF TIN, ETC. (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Malagasy Republic—						
Crude and bars (a) ..	16	21	21	23	21	28
Morocco—						
Ingots, etc.	198	211	216	221	163	245
Mozambique—						
Bars, sheets, etc. ..	3	21	22	15	20	16
Sudan—						
Unwrought incl. scrap ..	14	16	20	12	23	19
Tunisia—						
Pigs, bars and sheets ..	41	63	45	63	82	38
Cuba—						
Ingots	44	51	69	71	<i>n.a.</i>	<i>n.a.</i>
Bars, sheets, etc. ..	35	30	46	53	<i>n.a.</i>	<i>n.a.</i>
Mexico—						
Ingots	465	462	518	753	816	626
United States—						
Ore (<i>Sn content</i>) ..	20,122	16,688	94	5,440	10,773	14,026
Blocks, pigs, bars, etc. ..	64,815	62,590	56,158	41,149	43,578	39,488
Scrap	20	—	249	2	1	1
Argentina—						
Ingots and bars ..	2,263	74	2,662	1,490	1,465	1,696
Brazil—						
Ore	2,046	1,674	2,354	327	1,705	2,411
Ingots and bars ..	68	419	766	24	283	18
Colombia—						
Ingots, etc.	46	71	72	55	101	91
Chile—						
Ore and concentrates ..	116	115	63	5	<i>n.a.</i>	<i>n.a.</i>
Ingots	400	429	522	183	238	<i>n.a.</i>
Peru—						
Ingots, bars and scrap ..	70	94	61	39	65	57
Uruguay—						
Ingots, etc.	<i>n.a.</i>	<i>n.a.</i>	157	35	114	78
Venezuela—						
Crude	83	135	173	239	385	123
Burma—						
Crude	46	81	124	63	105	20
Formosa—						
Ingots and slabs ..	103	181	130	123	207	145
Iran (b)—						
Ingots, etc.	<i>n.a.</i>	82	154	286	<i>n.a.</i>	<i>n.a.</i>
Iraq—						
Ingots	58	11	24	21	<i>n.a.</i>	<i>n.a.</i>
Israel—						
Ingots, blocks and slabs	111	91	101	104	93	<i>n.a.</i>
Japan—						
Ore and concentrates ..	64	316	325	200	79	83
Ingots and slabs ..	5,683	7,298	7,102	7,370	9,706	11,722
Lebanon—						
Crude	15	7	11	2	4	4
Philippine Republic—						
Ingots, etc.	140	128	101	136	262	189
Syria—						
Crude and scrap ..	161	86	54	57	30	50
Turkey—						
Ingots, bars and sheets ..	665	645	471	567	807	1,090

(a) Including alloys.

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

TITANIUM MINERALS
PRODUCTION OF TITANIUM MINERALS

Long tons

Producing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Gambia (a)—						
Ilmenite.. .. .	—	—	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	80,743
Rutile	—	—	—	493	3,019	3,299
Canada (shipments) (b)—						
Ilmenite.. .. .	397,888	562,424	736,100	407,246	<i>n.a.</i>	<i>n.a.</i>
Ceylon—						
Ilmenite.. .. .	—	—	—	—	—	6,000
India—						
Ilmenite.. .. .	250,774	335,590	296,221	309,161	298,000	246,000
Rutile	149	541	473	449	383	966
Malaya (a)—						
Ilmenite	53,875	122,176	r 91,733	r 74,826	72,851	118,085
Australia—						
Ilmenite concentrates (c)	535	4,274	r 71,155	69,948	83,577	107,165
Rutile concentrates ..	59,613	96,816	128,903	83,328	81,905	88,228
OTHER COUNTRIES						
Finland—						
Ilmenite concentrates ..	83,632	101,290	104,079	104,807	84,791	82,338
Norway—						
Ilmenite.. .. .	155,340	187,494	206,869	208,617	223,398	230,842
Rutile (d)	9	24	20	—	—	—
Portugal—						
Ilmenite.. .. .	774	606	346	452	1,887	895
Tin-titanium ore	48	21	—	—	—	—
Spain—						
Ilmenite.. .. .	6,596	5,324	8,747	16,215	7,244	10,952
Cameroun—						
Rutile	99	150	39	—	—	—
Egypt—						
Ilmenite.. .. .	2,406	4,060	(f) 3,300	(f) 2,700	15,300	(f) 15,300
Rutile	—	—	—	—	1,033	(f) 1,000
Malagasy Republic—						
Ilmenite.. .. .	—	—	—	1,027	588	(f) 590
Rutile	—	2	—	—	—	—
Mozambique—						
Ilmenite.. .. .	—	—	—	<i>n.a.</i>	10,251	700
Senegal—						
Ilmenite.. .. .	22,883	19,800	r 35,300	33,000	29,412	21,571
Rutile	—	580	205	1,033	—	—
Mexico—						
Ilmenite.. .. .	11	—	—	149	—	—

(a) Exports.

(b) Production of titanium dioxide slag (approx. 70% TiO₂) at Sorel was as follows (long tons): 1955—145,343; 1956—195,156; 1957—231,179; 1958—144,029; 1959—197,394; 1960—*n.a.*

(c) Despatches.

(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	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
United States (a)						
Ilmenite.. ..	520,575	611,568	676,054	502,980	566,862	702,118
Rutile	7,601	10,712	9,555	6,612	8,452	7,864
Brazil—						
Ilmenite.. ..	—	—	—	5,081	(c) 5,000	<i>n.a.</i>
Rutile	156	302	241	240	207	213
Japan (b)—						
Ilmenite.. ..	9,246	16,902	13,402	5,247	5,062	5,138
Thailand—						
Ilmenite.. ..	—	344	1,821	823	491	<i>n.a.</i>
WORLD'S TOTAL—						
Ilmenite	r 1,506,000	1,974,000	r 2,262,000	1,800,000	2,000,000	2,000,000
Rutile	67,500	109,100	139,400	92,600	95,900	102,000

(a) Production of metal (commercial titanium sponge) was as follows (long tons): 1955—6,605; 1956—13,031; 1957—15,401; 1958—4,094; 1959—3,480; 1960—4,742.

(b) Production of metal (commercial titanium sponge) was as follows (long tons): 1955—1,230; 1956—2,472; 1957—3,029; 1958—1,630; 1959—2,438; 1960—2,271.

(c) United States Bureau of Mines' estimate.

EXPORTS OF TITANIUM MINERALS, ETC.

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ferro-titanium	308	662	393	348	502	276
Gambia—						
Ilmenite	—	—	13,917	28,896	13,202	—
Rutile	—	—	—	467	898	—
Union of South Africa—						
Ilmenite	1,687	879	2,645	15,741	57,490	99,453
Canada—						
Ilmenite	1,307	2,050	9,616	—	<i>n.a.</i>	2,631
Titanium dioxide slag (70% TiO ₂)	154,381	180,246	199,179	100,371	<i>n.a.</i>	<i>n.a.</i>
Hong Kong—						
Titanium oxide	61	108	88	142	155	130
India—						
Ilmenite	246,196	283,201	347,212	283,667	276,631	(c) 158,526
Rutile sand	<i>n.a.</i>	<i>n.a.</i>	300	—	—	—
Malaya—						
Ilmenite	53,874	122,176	91,733	74,826	72,851	118,085
Australia—						
Rutile	59,687	89,887	119,052	75,615	80,938	93,706
Ilmenite	434	1,130	37,811	56,243	68,649	75,319
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Titanium white	125	675	458	655	4,337	9,021
Finland—						
Ilmenite	57,802	106,468	101,471	95,409	63,539	64,131
France—						
Ferro-titanium	522	218	380	648	1,404	1,695
Titanium oxide, etc. ..	447	210	171	156	2,604	10,150
Germany (Federal)—						
Titanium oxide	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	34,493	38,722	45,914
Italy—						
Titanium oxide	1,882	4,432	5,374	5,268	6,636	7,010
Netherlands—						
Titanium white	109	113	83	319	956	2,422
Norway—						
Ilmenite	(a) 163,943	(a) 182,607	(a) 202,184	(a) 224,538	} 214,311	258,076
Rutile	9	19	9	2		
Titanium white	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>			3,349	2,711
Portugal—						
Ilmenite	1,838	615	364	101	100	<i>n.a.</i>
Sweden—						
Titanium minerals	282	612	185	15	15	14
Titanium white	140	759	283	24	28	6
Yugoslavia—						
Titanium oxide	98	134	24	—	—	—
Cameroun—						
Rutile	45	208	14	33	5	28
Senegal—						
Ilmenite	19,290	19,573	36,040	28,610	20,849	32,102
Rutile	—	561	76	905	—	—
United States—						
Ores and concentrates ..	1,021	1,641	1,803	1,112	4,157	1,125
Titanium metal (b)	40	512	759	387	889	1,164
Ferro-titanium	219	325	327	288	286	219

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

(b) Including alloys and scrap.

(c) Years ended March 31 following that stated.

EXPORTS OF TITANIUM MINERALS, ETC.

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES (<i>cont.</i>)—						
United States (<i>cont.</i>)—						
Titanium oxide and pigments	48,530	57,862	47,285	33,050	32,395	30,049
Brazil—						
Titanium minerals ..	—	5	—	—	—	—
Japan—						
Titanium sponge metal	1,097	2,485	2,441	1,947	1,757	1,702
Titanium oxide.. ..	7,747	9,433	14,320	13,647	13,916	18,803
Thailand—						
Ilmenite.. ..	—	—	1,131	492	394	<i>n.a.</i>

IMPORTS OF TITANIUM MINERALS, ETC.

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ilmenite.. ..	192,146	204,237	255,412	256,899	243,886	340,354
Rutile	12,539	10,502	11,840	12,281	7,276	10,611
Titanium sponge ..	132	—	—	—	—	44
Other titanium metal ..	34	9	9	7	1	1
Titanium oxide.. ..	4,374	3,455	6,569	154	1,747	840
Canada—						
Titanium oxide, etc. ..	31,963	33,815	30,567	26,285	27,319	24,015
Hong Kong—						
Titanium oxide.. ..	1,009	2,019	1,156	2,013	1,861	2,425
India—						
Rutile	<i>n.a.</i>	<i>n.a.</i>	155	193	100	(b) 146
Titanium oxide.. ..	<i>n.a.</i>	<i>n.a.</i>	543	797	1,456	(b) 926
Australia (a)—						
Ilmenite.. ..	16,146	10,346	3,694	—	—	—
Titanium white and oxide	6,811	6,628	7,383	7,482	5,847	4,100
New Zealand—						
Titanium white ..	2,612	2,470	2,620	4,608	2,441	3,477
OTHER COUNTRIES						
Austria—						
Titanium white ..	1,372	1,527	1,909	2,086	2,649	3,437
Belgium-Luxemburg E.U.—						
Ferro-titanium	45	48	53	35	113	175
Titanium white ..	4,393	6,184	5,596	6,367	7,333	9,013
Denmark—						
Titanium white ..	2,514	605	387	430	3,411	4,084
Finland—						
Titanium white ..	4,108	4,092	2,433	3,515	4,277	4,785
France—						
Titanium minerals ..	<i>n.a.</i>	23,524	42,241	46,294	63,914	71,512
Titanium oxide, etc. ..	3,468	6,046	7,018	4,873	5,003	5,836
Germany (Federal)—						
Ilmenite.. ..	114,584	143,134	158,167	197,000	205,796	280,514
Rutile	9,595	10,173	19,635	8,707	13,930	18,948
Titanium metal ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	41	116	131
Titanium oxide.. ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,765	2,311	855
Greece—						
Titanium white ..	201	178	287	453	530	788
Hungary—						
Ferro-titanium	58	71	52	48	60	48
Iceland—						
Titanium white ..	121	212	161	195	169	261
Italy—						
Titanium minerals ..	22,920	32,807	58,951	41,214	36,288	51,645
Ferro-titanium	101	209	146	272	234	286
Titanium oxide.. ..	r 1,590	r 2,742	r 2,871	r 4,363	4,320	7,360
Netherlands—						
Ferro-titanium	18	22	39	32	32	36
Titanium white ..	8,540	9,384	12,573	11,589	16,384	19,627
Norway—						
Titanium oxide.. ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	5,432	5,382
Portugal—						
Ilmenite.. ..	30	—	—	—	—	<i>n.a.</i>
Rutile	107	74	239	199	75	<i>n.a.</i>
Titanium oxide.. ..	337	405	595	703	857	1,236
Sweden—						
Titanium minerals ..	3,370	5,121	4,487	4,475	2,981	2,533
Titanium white ..	5,867	6,822	6,916	7,231	9,383	10,333

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

IMPORTS OF TITANIUM MINERALS, ETC. (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Yugoslavia—						
Rutile	110	101	293	256	1,059	1,458
Titanium oxide.. ..	209	373	<i>n.a.</i>	<i>r</i> 413	851	852
Algeria—						
Titanium minerals ..	<i>n.a.</i>	194	350	458	229	130
Titanium oxide.. ..	<i>n.a.</i>	127	140	282	267	355
Congo Republic—						
Titanium oxide.. ..	<i>r</i> 310	428	337	442	430	<i>n.a.</i>
Morocco—						
Titanium oxide	<i>n.a.</i>	61	63	123	149	178
Tunisia—						
Titanium oxide.. ..	18	29	170	63	32	50
Mexico—						
Titanium oxide	2,323	4,317	3,296	3,587	4,234	4,600
United States—						
Ilmenite (a)	315,492	320,786	411,029	310,843	331,863	237,183
Rutile	17,434	43,666	75,747	32,646	20,740	26,102
Titanium metal	506	1,828	3,154	1,851	1,396	1,992
Ferro-titanium	28	101	114	90	113	74
Titanium compounds ..	151	619	60	633	2,515	5,521
Argentina—						
Titanium oxide.. ..	1,656	3,329	2,543	3,497	2,495	3,634
Brazil—						
Titanium oxide.. ..	1,732	2,527	2,434	2,504	2,727	3,482
Chile—						
Titanium white	555	626	507	789	927	<i>n.a.</i>
Colombia—						
Titanium white	972	1,296	1,560	848	1,183	1,499
Peru—						
Titanium oxide.. ..	351	412	28	276	394	497
Venezuela—						
Titanium oxide.. ..	1,317	1,383	1,541	1,843	2,048	1,250
Japan—						
Ilmenite.. .. .	49,534	64,840	95,549	58,950	81,144	126,586
Titanium oxide.. ..	465	878	333	61	108	147
Korea (South)—						
Titanium oxide	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	457	657	775
Turkey—						
Titanium oxide	<i>n.a.</i>	55	114	271	456	238

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

TUNGSTEN

PRODUCTION OF TUNGSTEN ORES AND CONCENTRATES

Long tons

Producing Country and Description	Estimated WO ₃ Content					
	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Concentrates ..	62	52	49	2	—	—
Nigeria—						
Concentrates ..	1	5	—	—	—	—
South West Africa—						
Wolfram ..	109	132	35	13	—	—
Scheelite ..	1	2	4	—	—	—
Tin-wolfram concentrates	401	579	722	101	4	82
Southern Rhodesia—						
Concentrates ..	202	236	148	85	30	6
Tanganyika—						
Wolfram ..	22	18	3	—	—	—
Uganda—						
Wolfram ..	144	170	190	47	51	68
Union of South Africa—						
Concentrates ..	577	271	244	r 68	33	21
Tin-scheelite concentrates	—	—	n.a.	n.a.	n.a.	2
Canada (a)—						
Concentrates ..	1,453	1,519	1,337	456	—	—
Hong Kong—						
Wolfram ..	23	24	36	38	39	20
India—						
Concentrates ..	r 1	2	r —	—	1	2
Malaya—						
Wolfram ..	56	47	30	33	14	9
Scheelite ..	50	44	19	12	6	18
Australia—						
Wolfram ..	788	877	657	517	903	817
Scheelite ..	1,449	1,495	1,449	733	1	291
New Zealand—						
Scheelite ..	30	28	31	3	9	5
TOTAL						
	r 3,299	r 3,409	r 2,947	1,377	780	1,339

(a) Shipments (chiefly scheelite).

PRODUCTION OF TUNGSTEN ORES AND CONCENTRATES (cont.)

Long tons

Producing Country and Description	1955	1956	1957	1958	1959	1960	Estimated WO ₃ Content					
							1955	1956	1957	1958	1959	1960
OTHER COUNTRIES												
Austria—	—	—	6,105	5,728	5,796	6,153	—	—	192	115	114	217
Ore	—	—	—	n.a.	n.a.	—	—	—	—	87	22	—
Concentrates	113	58	—	—	—	—	78	39	—	—	514	423
France—	1,142	1,091	895	949	791	645	814	573	585	617	514	423
Concentrates	—	—	—	—	—	—	—	—	—	—	—	—
Italy—	26	24	17	9	5	7	16	r 16	r 11	5	3	4
Concentrates	369	242	252	83	52	62	240	158	163	54	34	40
Portugal—	3,513	4,245	3,668	1,654	1,990	2,403	2,283	2,759	2,385	1,076	1,293	1,682
Scheelite	884	135	—	—	—	—	220	33	—	—	—	—
Wolfram	—	—	—	—	—	—	—	—	—	—	—	—
Tin-tungsten ores	1,425	1,117	1,196	1,142	170	334	898	704	707	697	100	215
Concentrates	541	331	—	—	721	686	352	215	—	—	355	336
Spain—	462	454	476	522	300	300	274	270	298	354	180	180
Concentrates	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	(b) 65	44	48	53	46	(b) 60
Tin-tungsten concentrates	—	—	—	8	—	—	—	—	—	n.a.	—	—
Sweden—	1,084	1,261	1,165	890	683	n.a.	705	816	758	579	575	n.a.
Concentrates	1,072	1,017	841	775	657	n.a.	222	—	153	135	—	—
Yugoslavia	2	—	—	—	—	—	1	—	—	—	—	—
Chad	—	4	—	—	—	—	—	2	—	—	—	—
Congo Republic—	—	—	—	—	—	—	—	—	—	—	—	—
Concentrates	1	—	—	—	—	—	1	—	—	—	—	—
Egypt—	3	—	—	—	—	—	2	—	—	—	—	—
Concentrates	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	336	337	157	4	74	109
Morocco—	14,854	13,848	7,535	(a) 3,382	(a) 3,258	(a) 6,540	8,912	8,309	4,521	2,029	1,955	3,924
Ore	900	1,003	1,119	925	684	689	590	693	771	604	443	n.a.
Niger—	—	—	—	—	—	—	—	—	—	—	—	—
Concentrates	—	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—	—	—
Tin-tungsten concentrates	—	—	—	—	—	—	—	—	—	—	—	—
United States—	—	—	—	—	—	—	—	—	—	—	—	—
Concentrates	—	—	—	—	—	—	—	—	—	—	—	—
Argentina—	—	—	—	—	—	—	—	—	—	—	—	—
Concentrates	—	—	—	—	—	—	—	—	—	—	—	—

(a) Shipments from mine.

(b) United States Bureau of Mines' estimate.

PRODUCTION OF TUNGSTEN ORES AND CONCENTRATES (cont.)

Long tons

Producing Country and Description	Estimated WO ₃ Content					
	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES (cont.)						
Bolivia (a)— Concentrates	n.a.	n.a.	n.a.	n.a.	2,254	1,971
Brazil— Scheelite	956	1,284	1,007	2,093	1,155	1,390
Peru— Concentrates	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Burma— Tungsten concentrates ..	578	501	382	201	230	349
Tin-wolfram concentrates	1,835	1,956	1,986	1,172	743	1,096
China— Concentrates (b)	20,000	20,000	15,000	15,000	20,000	20,000
Japan— Concentrates	783	996	886	672	906	822
Korea— South— Concentrates	3,096	3,683	3,765	2,964	2,878	4,837
North— Concentrates (b)	1,700	1,700	2,500	3,000	3,300	5,000
Thailand— Concentrates	1,127	1,162	893	598	457	401
Turkey— Ore (c)	1,547	n.a.	n.a.	n.a.	n.a.	n.a.
TOTAL*						
WORLD'S TOTAL*	40,000	39,000	33,000	25,000	25,000	30,000

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

(a) Exports.

(b) Estimated.

(c) Run-of-mine.

EXPORTS OF TUNGSTEN, ETC.

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Tungsten ore	8	38	5	5	81	86
Ferro-tungsten	587	1,161	561	993	1,282	1,048
Tungsten metal, etc. ..	114	86	54	44	50	43
Nigeria—						
Tungsten ore	3	5	1	—	1	—
Rhodesia and Nyasaland—						
Tungsten ores	237	196	158	62	62	12
South West Africa—						
Tungsten ore	71	114	48	—	—	—
Tin-tungsten ore	400	586	670	126	13	—
Tanganyika—						
Wolfram ore	23	15	—	—	—	—
Uganda—						
Wolfram ore	150	163	190	27	12	68
Union of South Africa—						
Tungsten ore	460	612	162	—	30	22
Canada—						
Tungsten ore	1,651	1,480	1,383	459	—	—
Hong Kong—						
Tungsten ore	18	11	4	15	74	30
Malaya—						
Wolfram	62	59	39	37	53	11
Scheelite	51	35	4	5	29	22
Australia (a)—						
Wolfram ores and concentrates	795	1,226	801	387	596	1,192
(WO ₃ content)	533	787	547	277	431	862
Scheelite ores and concentrates	1,294	1,151	1,267	1,149	167	185
(WO ₃ content)	764	779	835	757	119	131
New Zealand—						
Scheelite	20	40	15	11	14	15
OTHER COUNTRIES						
France—						
Tungsten ore	<i>n.a.</i>	504	463	233	416	359
Ferro-tungsten	—	3	1	15	149	187
Tungsten metal, etc. ..	9	9	12	15	32	56
Germany (Federal)—						
Tungsten metal, etc. ..	129	174	200	198	245	248
Netherlands—						
Ore	59	123	160	84	24	61
Portugal—						
Tungsten ore	4,113	3,867	2,691	1,365	2,449	2,380
do. residues	292	437	52	—	—	371
Ferro-tungsten	329	365	216	61	124	149
Spain—						
Tungsten ore	1,906	1,502	530	744	596	240
Sweden—						
Ore	142	67	117	240	87	67
Ferro-tungsten	110	59	48	64	184	126
Algeria—						
Tungsten ore	—	1	—	—	—	—
Congo Republic—						
Tungsten ores	1,491	1,493	1,042	1,147	1,212	1,123
Egypt—						
Tungsten ore	—	17	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Morocco—						
Tungsten ore	6	—	—	—	—	—

(a) Years ended June 30 of that stated.

EXPORTS OF TUNGSTEN, ETC. (cont.)

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Mexico—						
Tungsten ore and concentrates	844	819	253	6	126	185
(WO ₃ content)	336	336	157	4	73	109
United States—						
Ore and concentrates	30	104	146	20	1	565
Ferro-tungsten	1	1	2	1	34	—
Tungsten metal, alloys and scrap	232	294	113	34	150	345
Tungsten powder	47	58	64	58	71	74
Argentina—						
Tungsten ore	746	2,047	1,432	578	—	350
Bolivia—						
Tungsten ore (WO ₃ content)	3,180	2,815	2,577	1,316	1,431	1,270
Brazil—						
Tungsten ores	1,162	1,603	1,632	2,001	1,223	1,545
Peru—						
Tungsten ore and concentrates (WO ₃ content)	590	625	477	518	381	232
Burma—						
Ore and concentrates	990	1,220	1,059	784	1,001	841
Tin-tungsten ores	1,441	862	615	625	174	171
Japan—						
Tungsten ore	230	40	20	20	—	—
Tungsten metal	60	22	—	1	1	1
Ferro-tungsten	217	60	5	1	—	—
Korea(South)—						
Tungsten ore	(a) 1,959	(a) 2,913	2,421	4,024	3,283	3,936
Thailand—						
Tungsten ore	1,555	970	946	527	367	609

(a) Imports into the United States from Korea.

IMPORTS OF TUNGSTEN, ETC.

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Tungsten ores	4,836	4,758	4,069	4,288	4,357	5,665
Tungsten metal, etc.	8	6	7	3	8	13
Canada—						
Tungsten ore	41	55	103	395	350	516
Ferro-tungsten	51	92	76	89	370	438
Malaya—						
Wolfram	—	—	—	—	12	—
OTHER COUNTRIES						
Austria—						
Tungsten ore	952	1,232	1,171	1,529	2,525	3,105
Ferro-tungsten	270	95	78	—	415	254
Belgium-Luxemburg						
E.U.—						
Tungsten ore	33	—	—	12	543	29
Ferro-tungsten	52	69	31	29	71	80
France—						
Tungsten ore	<i>n.a.</i>	1,505	1,497	1,515	1,513	1,817
Tungsten metal, etc.	3	5	5	9	33	23
Germany (Federal)—						
Tungsten ore	3,374	3,731	2,346	3,805	4,634	5,124
Tungsten metal, etc.	78	212	179	256	103	264
Hungary—						
Ferro-tungsten	79	174	143	—	—	—
Italy—						
Tungsten ore	113	141	184	72	101	176
Tungsten metal, etc.	10	7	14	9	13	46
Ferro-tungsten	100	37	79	55	41	227
Netherlands—						
Tungsten ore	61	33	17	97	113	341
Ferro-tungsten	2	7	1	6	3	3
Sweden—						
Tungsten ore	616	666	840	403	705	972
Ferro-tungsten	49	158	141	62	185	411
Yugoslavia—						
Ferro-tungsten	10	102	47	28	103	59
United States—						
Tungsten ore	17,276	17,337	11,809	5,359	4,325	2,722
(WO ₃ content)	11,652	11,743	7,891	3,682	3,059	1,983
Tungsten metal and carbide						
(W content)	40	17	37	45	88	71
Ferro-tungsten	373	479	225	87	294	100
Tungsten ingots, bars, scrap, etc.	204	292	115	111	201	83
Japan—						
Tungsten ore	158	1,105	2,300	356	455	2,835
Tungsten metal	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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Northern Rhodesia ..	—	—	20	38	29	—
Union of South Africa (d) ..	2,502	r 3,307	r 4,319	r 4,731	4,879	4,852
<i>£ SA</i>	25,348,233	34,742,644	47,631,855	650,430,000	654,500,000	654,000,000
Canada (a) ..	n.a.	1,734	5,024	10,148	12,032	9,477
<i>£</i>	9,466,038	16,629,871	50,859,836	102,395,044	122,918,724	96,560,927
Australia ..	n.a.	n.a.	(b) 400	(b) 550	(b) 950	(b) 1,150
OTHER COUNTRIES						
Finland ..	—	—	—	—	(b) 25	(b) 40
France ..	n.a.	93	291	487	719	968
Italy ..	1	1	1	—	2	(b) 7
Congo Republic ..	n.a.	n.a.	(b) 1,700	1,793	1,761	900
Malagasy Republic (c) ..	n.a.	n.a.	(b) 40	(b) 55	88	(b) 60
United States ..	n.a.	4,500	6,540	9,510	12,410	13,364
<i>£</i>	n.a.	48,000,000	61,000,000	84,700,000	107,000,000	118,000,000
Argentina ..	5	14	16	(b) 15	(b) 10	(b) 11
WORLD'S TOTAL ..	n.a.	(b) 16,000	(b) 23,000	(b) 35,000	(b) 40,000	(b) 40,000

(a) Producers' shipments.

(b) Estimated.

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

(d) Production commenced in South Africa in 1952. Figures for 1952 to 1954, hitherto unpublished, are as follows:— 1952—34 long tons (£73,697); 1953—430 long tons (£3,279,672); 1954—1,224 long tons (£15,371,468).

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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom— Radium compounds <i>Grains</i>	359	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Union of South Africa— Prescribed minerals (a) £SA	29,959,589	38,695,080	49,988,632	53,661,840	53,866,953	54,266,382
Canada— Ores and concentrates £	9,648,375	16,646,137	47,736,866	101,284,232	115,949,495	96,890,046
OTHER COUNTRIES						
Congo Republic— Radium products (<i>Ra content</i>) <i>Mgrams</i> ..	<i>n.a.</i>	56,234	89,313	69,786	101,619	27,600
United States— Radium metal (<i>Ra content</i>) <i>Mgrams.</i>	366	—	750	140	2,207	712
Malagasy Republic— Uranothorianite <i>long tons</i>	<i>n.a.</i>	<i>n.a.</i>	329	138	152	572
Mozambique— Uranium minerals <i>Long tons</i>	8	16	—	—	—	—

(a) Mainly uranium but includes some thorium.

IMPORTS OF URANIUM MINERALS, ETC.

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom— Radium compounds <i>Grains</i>	98	—	60	441	<i>n.a.</i>	<i>n.a.</i>
Canada— Radium and compounds .. £	309,184	109,672	497,765	193,512	142,745	111,075
OTHER COUNTRIES						
Belgium-Luxemburg E.U.— Ore <i>Long tons</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	627	3,058
United States— Concentrates <i>Long Tons</i> (<i>U₃O₈ content</i>) .. (a)	3,393	6,696	10,559	14,732	16,179	14,080
Radium salts <i>Mgrams.</i>	65,545	43,221	76,206	38,419	32,967	23,333
Brazil— Radium and radium products <i>Mgrams.</i>	1,157	1,291	497	96	681	—

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

VANADIUM
PRODUCTION OF VANADIUM ORES
(Metal content)

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
South West Africa ..	570	275	200	413	642	749
Union of South Africa ..	—	—	7	283	286	586
OTHER COUNTRIES						
Finland	<i>n.a.</i>	38	259	384	497	<i>n.a.</i>
Angola (b)	27	10	1	18	3	—
United States (a) ..	4,449	5,032	6,513	6,488	6,600	7,185
Argentina	—	—	—	4	6	<i>n.a.</i>
Peru	70	—	—	—	—	—
WORLD'S TOTAL (c) ..	5,116	5,355	6,980	r 7,590	8,034	9,000

(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, ETC.

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom— Ferro-vanadium ..	23	9	9	7	14	94
South West Africa— Concentrates (<i>V content</i>)	511	333	252	(a) 300	(a) 400	(a) 650
Union of South Africa— Oxide	—	—	5	519	521	1,034
OTHER COUNTRIES						
France— Ferro-vanadium ..	<i>n.a.</i>	47	53	55	73	336
Italy— Oxide	2	10	—	—	2	1
Sweden— Ferro-vanadium ..	47	54	43	80	97	183
Congo Republic— Ore	<i>n.a.</i>	700	—	—	—	1,834
Mexico— Concentrates	193	8	47	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
United States— Ore, concentrates, etc. (<i>V content</i>)	772	829	446	563	1,107	3,294
Flue dust and other waste (<i>V content</i>) ..	39	13	52	5	37	35
Ferro-vanadium ..	196	124	120	68	135	144
Peru— Ore and concentrates (<i>V content</i>)	82	—	—	—	—	—

(a) Estimated.

IMPORTS OF VANDIUM, ETC.

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1950
COMMONWEALTH COUNTRIES						
United Kingdom (a)—						
Ore	—	15	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Oxide	3	15	21	282	<i>n.a.</i>	<i>n.a.</i>
Other compounds ..	16	10	6	64	<i>n.a.</i>	<i>n.a.</i>
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Ferro-vanadium ..	13	25	12	12	19	36
Oxide	9	3	17	29	14	55
France—						
Oxide	365	413	396	346	424	1,006
Germany (Federal)—						
Ore	—	—	—	—	—	5
Hungary—						
Ferro-vanadium ..	117	111	76	106	89	59
Italy—						
Ore	114	382	254	51	—	50
Oxide	25	4	32	25	40	69
Ferro-vanadium ..	36	38	65	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Netherlands—						
Ferro-vanadium ..	1	8	5	9	3	4
Sweden—						
Ore	—	—	1	—	—	<i>n.a.</i>
Ferro-vanadium ..	39	31	24	7	39	67
United States—						
Ore	260	—	—	—	5	4
(V content)	82	—	—	—	3	2
Japan—						
Ore	38	330	405	153	814	284
Ferro-vanadium ..	—	—	37	—	—	—

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

VERMICULITE
PRODUCTION OF VERMICULITE

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Kenya	340	444	30	86	100	253
Southern Rhodesia	—	272	411	250	45	—
Tanganyika	—	—	—	82	111	18
Union of South Africa	51,323	52,426	55,910	48,495	46,784	61,627
Australia	—	1	—	—	—	—
India	123	927	—	—	2	15
OTHER COUNTRIES						
Egypt	—	—	29	270	296	(a) 290
Morocco	—	—	131	—	—	—
Sudan	—	—	—	118	98	n.a.
United States (b)	182,179	171,989	164,274	170,146	184,446	177,711
Argentina	492	548	256	144	(a) 145	(a) 145
WORLD'S TOTAL	234,400	226,600	221,000	220,000	232,000	240,000

(a) United States Bureau of Mines' estimate.

(b) Sold or used by producers.

EXPORTS OF VERMICULITE

Long tons

Exporting Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Rhodesia and Nyasaland	3	2	1	4	7	4
Union of South Africa	40,036	47,136	44,197	43,718	52,614	56,666

IMPORTS OF VERMICULITE

Long tons

Importing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom (a)	10,456	10,606	11,055	9,621	15,263	14,588
Canada	(£129,240)	(£135,969)	(£137,314)	(£148,238)	(£167,364)	(£153,603)
OTHER COUNTRIES						
France	5,193	(b) 4,577	(b) 7,453	(b) 10,925	(b) 8,193	(b) 7,711
Mexico	586	311	429	672	808	795
United States (a)	9,497	7,207	7,751	7,616	10,597	11,068

(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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom ..	1,048	674	835	241	—	250
Northern Rhodesia ..	(b) 33,991	(c) 28,925	(c) 29,554	(c) 30,250	(c) 29,895	(c) 29,794
South West Africa ..	20,741	36,043	49,171	39,964	19,273	24,000
Union of South Africa ..	—	457	1,059	—	—	—
Canada (h) ..	386,926	377,350	369,412	379,553	353,579	362,161
India ..	2,627	3,715	4,033	3,929	5,401	5,298
Australia ..	256,564	278,082	291,582	r 263,044	249,133	290,225
TOTAL ..	701,900	725,200	745,600	717,000	657,300	712,000
Irish Republic ..	2,472	1,605	r 1,545	r —	1,163	(e) 1,300
OTHER COUNTRIES						
Austria ..	6,994	6,043	7,569	7,598	8,030	8,741
Bulgaria ..	n.a.	35,100	44,400	49,200	54,700	57,900
Finland (b) ..	20,835	38,160	42,326	46,200	53,200	41,364
France ..	10,843	12,383	12,181	14,630	15,729	17,000
Germany (Federal) ..	90,677	90,980	92,870	r 84,136	80,862	84,964
Germany (East) (g) ..	6,900	6,900	6,900	6,900	6,900	6,900
Greece ..	7,241	9,081	9,572	14,471	11,061	n.a.
Italy ..	r 117,665	r 122,796	r 128,034	123,353	121,049	122,591
Norway ..	6,617	6,257	6,906	8,942	9,739	10,175
Poland ..	169,500	149,100	129,100	120,800	127,300	141,800
Portugal ..	292	559	173	15	—	—
Spain ..	90,448	87,423	79,550	81,040	84,505	84,750
Sweden ..	57,866	64,997	66,543	69,471	73,900	69,200
U.S.S.R. (c) (e) ..	255,000	270,000	300,000	325,000	330,000	340,000
Yugoslavia ..	58,781	56,629	57,171	59,071	59,715	55,491
Algeria ..	r 32,126	r 31,877	r 29,235	r 32,790	38,191	38,678
Angola ..	—	3	—	—	—	—
Congo Republic ..	66,700	115,670	105,589	112,184	68,867	107,337
Egypt ..	490	618	—	—	—	—
Morocco ..	42,577	r 41,562	48,093	r 48,481	54,733	44,000
Tunisia ..	5,350	4,645	3,495	4,070	3,270	3,760
Cuba ..	1,112	1,462	671	(g) 100	(d) 168	(d) 69
Greenland ..	—	2,300	8,161	5,930	8,239	9,960
Guatemala ..	8,347	7,096	n.a.	4,752	—	3,576
Honduras (d) ..	1,279	2,043	2,312	1,281	1,274	4,209
Mexico ..	265,144	244,956	237,221	220,566	259,767	267,138
United States (b) ..	459,528	484,232	474,763	367,862	379,735	388,774
Argentina ..	20,900	23,327	29,080	36,000	39,000	34,000
Bolivia (a) ..	20,990	16,802	19,355	13,997	3,339	3,963
Chile ..	2,797	2,650	2,013	1,197	996	(g) 800
Peru (b) ..	163,459	172,354	152,017	133,120	140,838	132,684
Burma ..	8,221	7,226	9,085	10,769	10,500	9,800
China (g) ..	28,000	35,000	39,000	45,000	64,000	79,000
Iran (f) ..	5,600	4,600	4,500	8,800	6,600	6,900
Japan ..	106,953	121,058	133,858	140,715	140,089	154,041
Korea (South) ..	30	400	278	329	4	40
Korea (North) (g) ..	35,000	49,000	49,000	59,000	59,000	59,000
Philippine Republic ..	—	935	297	—	5	4,899
Thailand ..	3,000	2,000	1,625	536	750	1,045
Turkey ..	(e) 750	(e) 1,700	(e) 2,000	(e) 2,000	(e) 1,000	2,697
TOTAL ..	r 2,200,000	r 2,300,000	r 2,300,000	r 2,300,000	2,300,000	2,400,000
WORLD'S TOTAL ..	r 2,900,000	r 3,100,000	3,100,000	r 3,000,000	3,000,000	3,100,000

(a) Exports.

(b) Recoverable.

(c) Smelter production.

(d) Imports into the United States.

(e) Estimated.

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

(g) United States Bureau of Mines' estimate.

(h) Refined zinc plus recoverable zinc in ores, etc, exported.

METAL PRODUCTION OF ZINC

Long tons

Production Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom ..	81,346	81,470	76,885	74,587	72,966	74,303
Northern Rhodesia ..	27,900	28,925	29,554	30,250	29,895	29,794
Canada	229,055	228,182	220,818	225,083	227,952	233,007
Australia	101,090	104,993	110,348	114,773	116,461	120,228
TOTAL	439,391	443,570	437,605	444,693	447,274	457,332
OTHER COUNTRIES						
Austria	2,300	r 6,535	9,189	r 10,444	11,257	11,339
Belgium	208,585	227,044	231,922	213,912	220,759	243,653
Bulgaria	1,337	5,745	7,394	8,104	8,950	16,700
France	110,178	110,806	128,256	146,077	143,945	147,739
Germany (Federal) ..	175,916	183,003	180,847	173,906	178,331	179,499
Italy	r 67,144	71,265	73,310	70,229	72,766	78,141
Netherlands	27,989	28,554	29,540	26,147	31,647	35,510
Norway	44,800	48,002	47,588	44,804	48,007	43,268
Poland	153,700	150,900	156,261	160,047	165,000	173,000
Spain	23,474	22,661	21,552	24,321	24,142	44,254
U.S.S.R. (a)	255,000	270,000	300,000	325,000	330,000	340,000
Yugoslavia	13,550	19,544	28,994	30,754	31,446	35,367
Congo Republic ..	33,432	41,419	48,417	52,594	53,944	52,515
Mexico	55,249	55,400	55,672	56,544	54,787	52,070
United States (b) (c) ..	860,271	878,223	880,175	697,541	713,095	717,607
Argentina	13,287	13,779	13,814	14,172	12,594	15,756
Peru	16,787	9,303	29,002	28,602	26,424	31,612
China (d)	26,000	34,000	37,000	40,000	59,000	69,000
Japan	107,628	130,800	132,614	135,273	153,079	172,686
TOTAL	2,200,000	2,300,000	2,400,000	2,300,000	2,300,000	2,500,000
WORLD'S TOTAL ..	2,600,000	2,700,000	2,800,000	2,700,000	2,800,000	2,900,000

(a) Estimated.

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

1955	272,121	1958	205,654
1956	251,210	1959	246,655
1957	235,807	1960	237,339

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

	1955	1956	1957	1958	1959	1960
A—High grade—Special ..	337,692	318,532	316,109	266,466	295,814	322,238
Ordinary	123,747	145,060	135,997	77,553	64,100	64,137
B—Intermediate grade ..	21,243	33,653	28,805	17,311	15,619	14,144
C and D—Brass special ..	71,615	85,974	75,260	73,072	67,237	74,560
Selected	3,486	2,143	1,027	1,161	1,262	65
E—Prime Western	361,454	357,261	387,692	303,590	320,686	303,829

(d) United States Bureau of Mines' estimate.

PRODUCTION OF ELECTROLYTIC ZINC IN CERTAIN COUNTRIES*

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Northern Rhodesia ..	17,900	20,000	20,400	20,600	21,200	18,800
Canada	229,055	228,182	220,818	225,083	227,952	233,007
Australia (Tasmania) ..	101,090	104,993	110,348	114,773	116,461	120,228
OTHER COUNTRIES						
Austria	2,300	6,535	9,189	10,444	11,257	11,339
France	43,162	47,390	48,767	59,300	n.a.	n.a.
Italy	60,706	63,219	62,856	60,878	n.a.	n.a.
Norway	44,800	48,002	47,588	44,804	48,007	43,268
Poland	49,600	55,300	58,300	65,500	69,500	72,600
Congo Republic ..	33,432	41,419	48,417	52,594	53,944	52,515
United States ..	348,117	366,444	365,610	291,472	250,279	285,515
Japan	71,058	81,216	83,419	83,668	98,222	107,096

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

PRODUCTION OF ZINC DUST IN CERTAIN COUNTRIES

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom ..	10,998	10,234	11,246	10,256	12,109	13,927
Australia	2,093	2,246	2,199	2,190	2,575	2,697
OTHER COUNTRIES						
France	3,023	r 2,450	r 2,181	1,872	2,438	3,618
Germany (Federal) ..	6,193	5,301	8,524	7,634	9,035	10,503
United States ..	26,891	25,043	23,853	23,671	29,248	27,489
Japan	5,048	4,616	5,189	4,587	4,880	12,366

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

Long tons

Producing Country	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom (a) ..	23,067	23,433	22,548	25,222	23,852	25,350
OTHER COUNTRIES						
France	57,563	57,637	61,647	69,268	66,223	61,456
United States (b) ..	47,390	42,802	35,475	34,704	36,310	33,031
Japan	4,890	5,350	6,393	5,692	6,722	6,856

(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		
1955	7,262	1958	11,401		
1956	7,059	1959	13,083		
1957	11,327	1960	10,080		

EXPORTS OF ZINC

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore and concentrates ..	3,604	3,228	498	200	4	4,976
Ingots, bars, etc. ..	608	365	1,062	1,649	1,441	2,942
Sheets, plates, etc. ..	2,149	1,933	1,374	3,763	2,428	2,900
Oxide	6,569	6,183	6,831	9,024	11,094	7,919
Lithopone, etc. . . .	2,087	3,217	2,467	3,379	4,450	6,264
Nigeria—						
Ore and concentrates ..	—	—	—	—	—	147
Rhodesia and Nyasaland—						
Ores and concentrates ..	—	15,024	2,415	—	—	—
Ingots	25,239	29,318	29,666	27,933	30,473	29,435
South West Africa—						
Ores and concentrates (Zn content)	21,375	30,107	55,844	42,647	19,273	24,046
Union of South Africa—						
Bars, sheets, etc. ..	8	20	2	1	11	18
Fume, dust, shavings, etc.	67	78	287	109	81	90
Canada—						
Ore (Zn content)	170,165	177,958	167,090	194,485	161,682	151,691
Crude	190,926	164,043	180,363	174,739	160,315	184,903
Dross, scrap and ashes ..	4,880	4,881	4,783	4,992	5,343	4,761
Oxide	1,066	477	924	1,322	1,153	645
Hong Kong—						
Unwrought (a)	30	148	426	362	443	1,256
Plates and sheets	129	226	463	540	346	282
Oxide	187	149	49	43	45	91
Lithopone	197	151	637	380	407	29
India—						
Concentrates, etc. ..	4,907	5,068	6,383	4,833	12,417	(c) 9,638
Dross, scrap and ashes ..	n.a.	n.a.	745	619	1,593	(c) 260
Malaya (a)—						
Bars, sheets, tubes, etc.	112	106	99	255	194	274
Australia (b)—						
Ores and concentrates (Zn content)	109,249	152,485	160,267	158,253	152,414	136,706
Dust	14	34	15	26	36	33
Ingots, blocks, etc. ..	32,709	33,715	39,676	30,210	44,998	31,904
Scrap and shavings ..	530	688	259	393	275	544
Plates and sheets ..	125	179	134	123	32	56
Oxide	324	100	265	79	127	105
Irish Republic—						
Ores and concentrates	4,147	4,536	3,390	1,057	2,599	2,891
OTHER COUNTRIES						
Austria—						
Ore	4,859	1,034	15	1,987	20	86
Crude and alloys	1,661	3,661	3,412	4,008	4,630	5,198
Scrap	2,704	1,544	673	1,034	154	107
Zinc-white	3	—	—	—	1	—
Lithopone	2,212	1,971	1,431	1,546	2,042	2,347
Belgium-Luxemburg						
E.U.—						
Ore	73,388	55,821	55,350	53,437	63,884	44,970
Crude	120,907	138,921	134,187	128,463	121,181	141,351
Scrap	2,390	1,683	2,892	4,854	6,629	8,803
Sheets, bars and wire ..	16,826	18,162	19,101	19,287	15,103	14,872
Dust	8,260	7,088	9,701	8,338	6,885	9,411
Lithopone	12,198	16,528	15,492	10,883	15,050	21,321

(a) Including alloys.

(b) Years ended June 30 of that stated.

(c) Years ended March 31 following that stated.

EXPORTS OF ZINC (cont.)

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Denmark—						
Crude	—	243	315	2,516	1,169	2,309
Scrap	1,367	1,435	992	1,107	1,191	1,375
Finland—						
Concentrates	31,696	80,438	90,083	88,644	118,853	88,451
Bars, sheets, scrap, etc. . .	—	5	1	411	1,054	n.a.
France—						
Ore	1	2,225	1,279	—	12	23,821
Crude	600	150	280	442	4,256	5,648
Bars, sheets and wire	1,092	1,082	1,220	1,336	2,051	2,523
Oxide	1,930	1,112	1,723	2,260	3,402	5,354
Lithopone, etc.	623	561	524	558	716	1,629
Germany (Federal)—						
Ore	7,258	5,090	829	9,188	16,938	16,659
Crude and scrap (a)	28,833	40,672	23,661	28,859	19,737	27,506
Bars, sheets, wire, etc. . .	9,004	6,754	6,153	5,858	6,631	7,071
Dust	1,197	978	1,562	2,334	2,343	2,025
Zinc-white, zinc-grey	10,871	11,249	12,911	13,192	17,709	15,767
Lithopone	37,716	41,619	41,948	41,545	39,572	38,523
Greece—						
Ore and concentrates	16,325	17,578	19,150	27,582	32,441	30,631
Italy—						
Ore	56,692	62,032	73,007	87,609	82,724	58,848
Crude	19,201	23,057	13,816	15,436	17,253	10,429
Bars, sheets, wire (a)	421	36	14	447	278	310
Oxide	353	544	544	363	449	207
Lithopone	3,355	4,620	3,692	5,225	5,488	4,118
Netherlands—						
Ore	876	272	2,384	1,863	1,632	1,766
Crude	18,107	20,387	14,967	14,517	25,487	23,461
Scrap	4,721	6,250	5,007	4,977	2,869	2,446
Sheets	1,180	921	1,296	1,303	1,084	1,321
Norway—						
Ore	6,023	5,675	6,056	10,686	10,296	14,167
Electrolytic zinc	32,409	36,627	39,555	36,720	36,146	31,900
Ashes and scrap	1,903	1,409	1,323	1,444	(b) 296	(b) 653
Zinc-white	2,083	2,482	1,407	2,714	377	408
Poland—						
Crude and sheets	94,900	94,500	91,000	89,000	89,000	96,000
Zinc-white	10,280	9,900	8,132	6,954	8,855	9,908
Portugal—						
Ore	569	1,037	440	—	—	n.a.
Crude	9	6	29	10	9	2
Zinc-white	16	11	16	15	19	21
Spain—						
Ore	106,698	90,419	63,431	53,749	129,526	73,910
Bars, scrap, sheets, wire, etc.	1	4	3	1	408	n.a.
Sweden—						
Ore	104,915	125,728	135,827	136,131	141,555	137,120
Crude	518	116	154	362	12	223
Scrap	218	195	439	620	1,006	869
Zinc-white	990	914	559	645	747	870
Switzerland—						
Crude and scrap	5,937	5,226	5,738	5,124	4,945	919
Dust	52	41	61	87	42	24
Zinc-white, etc.	161	174	227	279	317	n.a.
U.S.S.R.—						
Concentrates	36,400	32,600	—	36,800	65,700	48,200
Crude	34,900	50,100	71,000	65,400	72,100	89,000
Yugoslavia—						
Concentrates	43,808	29,610	23,984	26,783	27,987	18,336
Crude	2,700	2,250	14,569	11,809	9,301	8,762

(a) Including alloys.

(b) Scrap only.

EXPORTS OF ZINC (cont.)

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES (cont.)						
Yugoslavia (cont.)—						
Plates, sheets and strips	384	1,115	1,742	2,500	2,552	3,171
Dust	1,423	1,522	1,680	1,651	1,658	1,577
Oxide	318	925	1,048	496	1,639	2,062
Lithopone	1,051	1,513	1,007	347	883	651
Algeria—						
Ore	63,750	60,945	50,682	52,559	73,571	64,781
Crude	206	57	8	25	40	16
Scrap	305	425	357	423	428	513
Bars, sheets, wire ..	6	178	24	34	53	16
Oxide	3	1	2	—	—	119
Angola—						
Ore	—	—	295	—	—	—
Congo Republic—						
Ores and concentrates ..	101,447	70,467	78,073	82,363	73,748	(d) 96,000
Electrolytic zinc	32,703	38,901	48,866	50,403	52,836	(d) 50,000
Egypt—						
Ore	2,017	394	n.a.	n.a.	n.a.	n.a.
Morocco—						
Ore	88,503	62,521	102,266	54,381	97,941	69,511
Tunisia—						
Ore	13,082	10,946	7,963	6,250	6,020	4,190
Cuba—						
Crude	587	1,681	795	—	n.a.	n.a.
Greenland—						
Ore	—	4,761	12,692	8,507	9,367	17,567
Guatemala—						
Ore	15,762	18,545	18,942	11,328	n.a.	n.a.
Honduras—						
Ore and concentrates ..	341	859	1,357	—	—	6,565
Mexico—						
Ores and concentrates	365,178	382,631	357,848	297,661	345,842	375,624
Refined	47,986	40,381	41,602	35,916	40,144	29,354
Oxide	387	853	1,203	1,337	2,155	2,810
United States—						
Ore and concentrates (b)	—	763	6	—	1	12
Crude	16,133	7,870	9,630	1,851	10,383	67,093
Scrap (b)	19,296	13,332	4,883	4,771	10,118	10,865
Sheets, strips, etc. ..	2,325	2,717	2,390	3,409	3,151	2,968
Dust	397	332	531	463	465	693
Oxide	2,365	2,454	2,807	2,270	2,247	1,908
Lithopone	1,689	1,239	885	547	480	170
Bolivia—						
Ores (Zn content)	20,990	16,802	19,355	13,997	3,339	3,963
Brazil—						
Ore	1,153	—	—	—	—	—
Chile—						
Concentrates	4,157	8,716	5,481	2,165	n.a.	n.a.
Peru—						
Ores, etc. (Zn content) ..	125,893	134,749	117,333	105,920	128,862	131,171
Bars (Zn content)	18,349	6,914	26,668	28,494	25,237	24,106
Burma—						
Concentrates	40,266	31,237	36,751	36,744	29,706	20,022
Iran (a)—						
Ore	n.a.	12,201	11,810	15,473	n.a.	n.a.
Japan—						
Crude	4,406	14,626	11,514	7,068	8,589	5,821
Oxide	(c) 109	108	172	77	44	24
Lithopone	102	213	12	22	—	1
Philippine Republic—						
Concentrates	—	1,083	1,476	—	—	11
Turkey—						
Ore	588	984	982	1,575	3,486	1,968

(a) Years ended March 20 following that stated.

(b) Zn content.

(c) Including sulphide.

(d) Estimated.

IMPORTS OF ZINC

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore and concentrates ..	200,252	180,760	207,355	121,194	152,325	189,112
Ingots, bars, etc. ..	159,522	125,747	146,713	133,523	173,810	185,878
Sheets, plates, etc. ..	1,090	418	451	779	754	987
Oxide	36	54	4	5	—	—
Lithopone, etc. . .	2,286	2,838	2,828	4,358	2,685	2,615
Ghana—						
Unwrought and bars, rods, sheets, etc. ..	50	41	26	65	65	73
Kenya (a)—						
Unwrought, incl. scrap	49	59	37	88	68	77
Bars, plates, sheets, etc.	26	10	21	44	40	89
Nigeria—						
Unwrought and bars, rods, sheets, etc. ..	43	63	42	90	50	67
Rhodesia and Nyasaland—						
Sheets, dust, etc. ..	124	102	147	148	180	124
Tanganyika (a)—						
Bars, sheets, scrap, etc.	17	22	7	16	31	26
Union of South Africa—						
Bars, rods and ingots ..	11,840	21,432	17,785	22,895	14,622	28,201
Sheets and strips ..	571	494	r 264	114	63	129
Lithopone	3,009	1,924	2,129	1,928	1,646	1,609
Oxide	346	351	233	292	273	264
Dust and shavings ..	49	61	17	34	62	21
Canada—						
Dust	375	438	604	485	602	708
Ingots, sheets, plates, bars, etc.	1,688	1,510	r 1,369	1,537	1,796	886
Zinc-white	719	544	r 641	621	646	678
Lithopone	1,691	2,049	1,219	1,109	875	798
Ceylon—						
Blocks, ingots, etc. ..	13	26	50	65	85	65
Sheets and plates ..	15	32	21	19	17	42
Hong Kong—						
Unwrought, incl. scrap	232	700	1,180	2,477	2,747	4,462
Sheets and plates ..	1,268	1,025	952	797	629	659
Oxide	599	527	545	508	527	538
Lithopone	1,713	1,463	2,439	1,695	2,102	1,716
India—						
Crude	31,028	35,258	47,910	57,122	46,921	(b) 66,725
Sheets, etc.	1,742	2,059	1,632	660	143	(b) 786
Zinc-white	51	4	9	8	7	(b) 17
Lithopone	729	417	279	133	163	(b) 379
Malaya—						
Bars, sheets, tubes, etc. (a)	1,414	643	1,059	960	878	1,305
Pakistan—						
Crude	(b) 2,160	285	519	674	1,525	1,899
Zinc-white	(b) 194	177	134	263	248	464
Lithopone	(b) 676	458	809	1,091	507	1,639
Australia (c)—						
Dust, bars, sheets, scrap	131	154	132	156	129	911
Oxides	210	218	7	7	5	37
Lithopone	2,225	1,925	2,415	1,353	1,623	1,582
New Zealand—						
Crude, ingots, bars, etc.	1,705	1,416	1,655	2,532	2,130	2,532
Sheets and plates ..	222	295	272	295	220	280
Oxide	443	419	353	314	31	108
Lithopone	426	213	173	266	184	174

(a) Including alloys.

(c) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

IMPORTS OF ZINC (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
Irish Republic—						
Unwrought (a)	1,679	1,351	1,452	1,582	1,524	2,163
Wrought (a)	389	357	334	364	296	99
OTHER COUNTRIES						
Austria—						
Ore	9,580	6,419	4,037	10,369	11,555	10,127
Crude and alloys	9,601	5,959	4,447	3,918	3,070	6,485
Sheets, bars, etc.	26	102	127	165	88	192
Zinc-white and zinc-						
grey	364	407	389	374	786	629
Lithopone	193	418	540	359	20	19
Belgium-Luxemburg						
E.U.—						
Ore	541,807	536,351	514,382	453,528	526,753	540,052
Crude	885	571	777	3,336	491	2,991
Scrap	68	240	9	36	861	368
Sheets, bars and wire	34	57	15	15	25	53
Dust	61	8	261	280	166	22
Oxide	1,408	1,140	1,235	1,221	1,234	1,421
Lithopone	1,577	1,725	1,540	1,713	1,980	1,637
Denmark—						
Crude	5,560	4,511	5,557	9,665	11,296	11,544
Scrap	75	82	143	270	513	142
Plates, sheets and wire	4,718	5,382	4,733	5,856	5,409	5,083
Zinc-white	1,726	1,987	1,596	1,627	1,940	1,642
Lithopone	1,763	1,866	1,727	1,849	1,883	1,854
Finland—						
Crude	7,578	4,504	6,245	2,995	5,361	4,729
Scrap	45	126	54	72	54	5
Sheets	466	288	538	326	435	468
Zinc-white	878	529	520	646	802	725
Lithopone	1,596	1,353	1,735	1,309	1,631	1,919
France—						
Ore	296,558	285,363	308,039	346,203	236,309	285,755
Crude	14,778	11,394	10,271	14,596	13,597	21,699
Scrap	6,957	7,153	6,578	8,946	4,035	6,050
Dust	2,022	1,744	2,243	1,412	1,498	5,272
Sheets, bars and wire	107	864	55	89	100	261
Oxide	380	586	399	197	541	714
Lithopone	12,799	17,110	16,295	9,700	16,165	19,217
Germany (Federal)—						
Ores	102,034	114,526	109,123	177,297	142,087	158,346
Crude and scrap (a)	66,894	59,849	66,821	75,858	104,665	136,999
Bars, sheets, wire, etc.	4,843	3,929	4,861	8,086	6,997	6,996
Dust	2,937	2,593	1,962	2,161	2,198	2,984
Zinc-white and zinc-grey	3,040	2,265	2,972	2,165	2,151	2,365
Lithopone	2,180	2,883	2,743	2,297	2,659	2,965
Greece—						
Crude	1,434	1,562	2,101	2,183	2,773	3,754
Plates and sheets	686	553	654	732	448	n.a.
Zinc-white	464	375	340	324	241	231
Lithopone	2,305	2,625	2,527	2,864	3,009	3,207
Hungary—						
Crude	6,957	6,960	5,932	7,107	8,403	10,663
Iceland—						
Crude	12	27	20	37	36	18
Bars, sheets, wire, etc.	39	42	29	35	23	43
Zinc-white	26	67	34	53	32	77
Italy—						
Ore	867	1,072	20	2,528	—	982
Crude	5,222	4,592	8,615	6,407	6,749	11,099
do. (alloys)	637	847	913	941	309	856

(a) Including alloys.

IMPORTS OF ZINC (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Italy (<i>cont.</i>)—						
Scrap	940	1,281	2,461	1,061	4,744	4,387
Dust	587	1,149	938	928	146	44
Bars, sheets, wire (a) ..	98	166	123	294	97	243
Oxide	165	303	558	400	489	705
Lithopone	650	704	739	980	1,078	1,002
Netherlands—						
Ore	65,031	45,948	69,629	71,262	72,952	70,653
Crude	7,565	8,432	10,041	12,285	9,973	11,584
do. (alloys)	1,175	927	1,451	908	1,398	2,011
Dust	555	616	662	717	799	842
Scrap	263	371	226	488	796	756
Sheets, bars and wire ..	3,596	4,624	4,308	4,695	4,174	4,524
Oxide	1,432	1,511	1,464	1,272	1,468	1,557
Lithopone	1,231	2,481	2,010	1,821	1,731	1,976
Norway—						
Ore	100,766	75,566	92,703	88,260	61,278	83,668
Ashes and scrap	922	1,326	1,330	1,056	(b) 750	(b) 902
Crude	359	1,601	750	172	260	1,152
Bars and sheets	724	1,095	861	1,236	1,411	1,029
Zinc-white	762	753	736	331	496	470
Lithopone	601	495	395	422	358	334
Poland—						
Concentrates	78,800	89,600	150,000	105,000	141,000	109,000
Portugal—						
Crude, scrap and dust ..	1,717	2,422	2,743	2,854	2,682	3,128
Oxide	822	783	786	720	617	430
Lithopone	1,488	1,647	1,619	1,985	1,926	2,221
Spain—						
Bars and scrap	6	398	4,092	9,466	7,719	n.a.
Sweden—						
Crude	25,934	25,796	23,664	22,846	29,107	32,206
Scrap	17	3	1	—	61	103
Sheets	1,447	1,369	1,513	1,276	861	824
Zinc-white	4,990	4,994	5,071	4,484	4,703	4,502
Lithopone, etc.	6,475	6,172	5,945	6,267	6,173	5,863
Switzerland—						
Crude and scrap	15,699	16,068	17,943	15,009	14,180	23,566
Dust	1,812	931	1,395	1,035	1,235	2,216
Bars, sheets, pipes and wire	1,336	1,384	1,256	1,405	1,270	1,644
Zinc-white, lithopone, etc.	8,522	9,868	9,067	8,535	8,496	n.a.
U.S.S.R.—						
Crude	46,600	47,300	32,000	30,900	40,900	59,900
Yugoslavia—						
Crude	2,460	1,086	318	30	227	770
Algeria—						
Crude	2	—	3	18	1	246
Bars, sheets, wire	765	590	800	888	795	676
Oxide	536	315	455	547	733	555
Lithopone, etc.	755	922	783	1,253	1,401	1,683
Angola—						
Bars, sheets, wire	72	104	154	95	107	94
Oxide	41	42	39	37	30	29
Congo Republic—						
Crude and scrap	28	2	4	11	—	n.a.
Oxide	79	188	88	67	92	n.a.
Lithopone	154	590	478	369	481	n.a.

(a) Including alloys.

(b) Scrap only.

IMPORTS OF ZINC (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Egypt—						
Crude, sheets and scrap	1,132	1,117	896	1,054	1,752	2,272
Zinc-white	427	444	863	713	481	893
Lithopone	2,666	2,483	2,341	4,211	1,614	5,247
Malagasy Republic—						
Bars, sheets, wire ..	58	117	73	171	102	98
Oxide	16	4	8	9	4	4
Morocco—						
Crude	413	131	338	597	387	502
Bars, sheets and wire ..	219	177	103	169	163	138
Oxide	418	361	303	344	325	449
Lithopone	951	955	829	901	926	986
Mozambique—						
Sheets	10	11	8	9	20	14
Oxide	18	33	23	35	34	52
Tunisia—						
Crude and dust	2	75	12	104	63	49
Bars, sheets, wire ..	90	65	34	80	69	107
Oxide	109	53	87	61	75	134
Lithopone	415	215	318	419	<i>n.a.</i>	<i>n.a.</i>
Cuba—						
Crude	206	650	312	204	<i>n.a.</i>	<i>n.a.</i>
Bars and sheets	127	367	108	126	<i>n.a.</i>	<i>n.a.</i>
Mexico—						
Crude and sheets	32	296	251	62	97	61
Oxide	<i>n.a.</i>	47	22	32	38	27
United States—						
Ore (<i>Zn content</i>)	343,436	412,838	606,621	r 480,088	389,294	409,094
Crude	174,160	218,505	240,021	165,797	146,841	107,969
Dross and scrap	254	537	527	867	1,016	1,075
Sheets	385	405	654	804	849	807
Dust	64	64	100	86	39	17
Oxide	2,964	3,274	4,683	10,472	14,741	11,335
Lithopone	27	128	51	61	65	55
Argentina—						
Crude and bars	6,397	6,244	1,369	7,867	6,955	412
Sheets and plates	—	—	8	—	—	70
Zinc-white	—	—	1	—	1	1
Brazil—						
Crude	13,737	18,977	15,253	22,766	21,476	29,829
Bars, sheets and plates	1,440	238	117	93	27	74
Zinc-white	3,152	4,729	2,542	2,647	1,200	455
Lithopone	5,710	7,776	7,739	6,138	7,516	7,477
Chile—						
Crude	3,108	1,561	2,258	2,459	1,477	<i>n.a.</i>
Bars and sheets	179	134	173	130	163	<i>n.a.</i>
Zinc-white	4	3	—	3	<i>n.a.</i>	<i>n.a.</i>
Lithopone	450	214	—	10	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Crude, sheets, bars and wire including alloyed	590	406	559	695	1,718	2,843
Zinc-white	876	931	1,053	942	616	787
Lithopone	624	640	1,015	292	316	547
Peru—						
Crude, bars, sheets and powder	113	122	113	115	162	148
Zinc-white and lithopone	400	384	627	436	411	364

IMPORTS OF ZINC (cont.)

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
OTHER COUNTRIES						
<i>(cont.)</i>						
Uruguay—						
Crude and sheets ..	<i>n.a.</i>	<i>n.a.</i>	1,232	648	1,421	1,351
Lithopone	<i>n.a.</i>	<i>n.a.</i>	673	269	1,000	771
Zinc-white	<i>n.a.</i>	<i>n.a.</i>	301	343	365	372
Venezuela—						
Crude	—	4	6	17	56	115
Oxide	334	577	517	580	710	606
Lithopone	713	824	754	735	543	348
Burma—						
Crude	78	164	378	140	158	—
Formosa—						
Crude (a)	827	818	1,655	1,057	605	1,318
Bars, rods and alloyed..	329	190	281	260	271	257
Indonesia—						
Crude, scrap and dust..	19	21	134	29	42	127
Bars and sheets.. ..	409	524	629	627	886	789
Zinc-white	2,562	1,601	2,236	1,536	1,332	2,141
Iran (b)—						
Crude, sheets and wire..	<i>n.a.</i>	56	128	59	<i>n.a.</i>	<i>n.a.</i>
Oxide	<i>n.a.</i>	154	247	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Lithopone	<i>n.a.</i>	578	708	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Iraq—						
Crude, sheets, etc. ..	26	265	77	185	<i>n.a.</i>	<i>n.a.</i>
Israel—						
Crude and sheets ..	1,755	1,810	1,941	2,660	2,897	<i>n.a.</i>
Oxide	<i>n.a.</i>	92	168	274	349	<i>n.a.</i>
Lithopone	846	677	829	1,173	753	<i>n.a.</i>
Japan—						
Ore	10,683	37,519	58,430	19,631	58,695	107,790
Crude	5,182	6,109	7,324	7,982	9,295	25,736
Scrap	205	7	23	53	170	48
Plates and sheets ..	8	12	86	14	11	4
Lebanon—						
Crude	70	19	252	190	467	512
Oxide and lithopone ..	177	142	107	101	172	65
Philippine Republic—						
Crude and sheets ..	136	1,627	3,970	4,136	11,610	9,529
Dust	95	90	97	113	93	85
Oxide	474	491	898	776	1,045	891
Lithopone	249	500	467	232	332	389
Syria—						
Oxide and lithopone ..	586	655	613	720	494	784
Thailand—						
Crude (a)	17	—	17	19	431	2,160
Bars and sheets (a) ..	794	1,324	1,251	1,631	1,040	1,734
Oxide	125	293	136	215	142	215
Lithopone	<i>n.a.</i>	<i>n.a.</i>	148	169	323	506
Turkey—						
Crude	32	747	445	487	1,570	3,248
Bars, sheets, wire, etc.	3,801	792	764	846	2,457	2,830
Oxide	1,035	1,159	824	133	1,880	1,204
Lithopone	1,102	1,173	205	635	1,764	1,466

(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	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Gambia (a)	—	—	—	10	—	—
Nigeria	—	—	—	90	1,116	1,757
Union of South Africa ..	—	—	—	1,008	5,289	6,577
India	3	3	10	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Malaya (a)	81	45	41	25	81	57
Australia—						
Zircon concentrates ..	48,673	72,458	88,561	59,269	113,356	101,844
OTHER COUNTRIES						
Egypt	112	359	40	(c) 40	<i>n.a.</i>	<i>n.a.</i>
Malagasy Republic	—	—	—	23	44	<i>n.a.</i>
Senegal	—	1,130	r 2,900	6,800	8,533	10,186
United States (d)	25,098	39,441	(e) 50,716	(f) 27,181	<i>n.a.</i>	<i>n.a.</i>
Brazil (b)	2,958	2,526	1,606	9,349	9,684	5,677

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): 1955—167; 1956—212; 1957—*n.a.*; 1958—1,129; 1959—1,254; 1960—1,271.

(e) Florida only.

(f) Excluding Idaho.

EXPORTS OF ZIRCONIUM MINERALS, ETC.

Long tons

Exporting Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
Gambia—						
Zircon	—	—	—	10	—	—
Union of South Africa—						
Zircon concentrates ..	—	—	—	391	4,821	5,400
Malaya—						
Zircon	81	45	41	25	81	57
Australia—						
Zircon concentrates ..	46,685	68,838	85,254	60,895	108,820	104,630
OTHER COUNTRIES						
Congo Republic—						
Ore	<i>n.a.</i>	24	—	37	—	—
Senegal—						
Zircon	—	758	3,892	4,970	8,149	10,772
United States—						
Ores and concentrates	696	936	2,821	1,780	1,349	1,234
Zirconium metal, etc. ..	48	9	30	45	40	475
Brazil (a)	1,381	492	98	—	49	—

(a) Chiefly baddeleyite.

IMPORTS OF ZIRCONIUM MINERALS, ETC.

Long tons

Importing Country and Description	1955	1956	1957	1958	1959	1960
COMMONWEALTH COUNTRIES						
United Kingdom— Zirconium ores ..	9,168	12,138	19,848	17,778	28,063	33,692
Canada— Zirconium oxide ..	(£6,994)	(£6,199)	(£7,704)	(£8,263)	(£14,443)	(£8,735)
Zirconium silicate ..	(£42,315)	(£70,540)	(£135,104)	(£54,219)	(£56,104)	(£59,402)
OTHER COUNTRIES						
France— Zirconium ore ..	<i>n.a.</i>	8,966	9,806	7,853	9,285	15,389
Germany (Federal)— Zirconium ore ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	6,964	16,869	18,653
Italy— Zirconium ore ..	130	6,862	2,862	9,928	4,176	7,898
United States— Zirconium ore (a) ..	25,974	27,803	37,225	17,165	48,998	30,607
Zircon (b) ..	24,591	27,099	37,196	17,121	47,902	26,056
Baddeleyite (c) ..	1,383	295	—	—	—	—
Zirconium metal ..	—	—	42	105	3	1

(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	1955	1956	1957	1958	1959	1960
Germanium (in terms of metal)						
PRODUCTION*—						
South West Africa Lb.	10,000	20,000	12,000	14,000	16,000	42,000
Italy Lb.	—	—	—	—	3,000	12,000
Congo Republic Lb.	4,810	8,240	19,990	35,850	30,080	55,340
United States .. Lb.	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	(a) 40,000	(a) 54,000
Indium						
PRODUCTION†—						
Canada Troy ounces	104,774	363,192	384,360	69,000	<i>n.a.</i>	<i>n.a.</i>
Peru Troy ounces	—	4,790	—	—	<i>n.a.</i>	<i>n.a.</i>
Japan Troy ounces	—	—	<i>n.a.</i>	21,900	62,890	<i>n.a.</i>
Iodine						
PRODUCTION—						
Italy Ton	14	13	14	15	15	<i>n.a.</i>
Chile Ton	1,096	691	1,298	1,308	1,127	1,653
Japan Ton	508	587	625	710	762	<i>n.a.</i>
EXPORTS—						
Chile Ton	821	1,249	1,220	1,338	1,309	1,900
Japan Ton	404	423	482	563	469	596
Perlite						
PRODUCTION—						
United Kingdom Ton	—	889	440	113	413	1,135
Australia .. Ton	—	339	—	300	708	—
New Zealand .. Ton	198	132	275	360	378	348
Greece Ton	—	—	—	8,201	1,999	<i>n.a.</i>
United States .. Ton	299,274	312,700	377,095	332,000	396,000	344,000
IMPORTS—						
United Kingdom £	43,270	69,821	97,506	58,941	101,062	<i>n.a.</i>
Sodium Carbonate (Natural)						
PRODUCTION—						
Kenya Ton	124,744	146,326	118,440	111,038	151,405	124,510
Union of South Africa Ton	996	1,095	—	—	—	—
United States (b) Ton	547,852	582,938	582,783	562,000	656,000	722,000
EXPORTS—						
Kenya Ton	116,614	137,148	116,456	104,016	148,177	115,208
Tellurium						
PRODUCTION—						
Canada Lb.	9,014	7,867	31,524	38,250	13,023	56,352
United States (c) Lb.	179,822	232,555	254,865	170,495	196,387	260,000
Peru Lb.	2,341	88	—	14,870	62,600	59,343
Japan Lb.	992	331	717	100	2,760	13,671
EXPORTS—						
Peru Lb.	—	—	—	9,105	58,934	51,039
IMPORTS—						
Germany (Federal) Lb.	22,046	9,700	11,244	16,800	18,100	16,100

*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.

(c) Including tellurium content of compounds.

(b) Sold or used by producers.

MINERALS PRODUCED IN COUNTRIES OF THE BRITISH COMMONWEALTH

The following list comprises those minerals produced in Commonwealth countries during the period 1955-1960 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 Petroleum</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 Manganese</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 Garnet Gold 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>Felspar Garnet Graphite Gypsum Ilmenite 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 Cobalt 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

Kenya—(cont.)
Mica
Pumice
Salt
Silver
Sodium carbonate
Vermiculite

Kuwait
(Protected State)
Petroleum

Leeward Islands
Salt

Malaya
Bauxite
China clay
Coal
Columbite
Corundum
Gold
Iron
Manganese
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
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

Ocean Island
Phosphate

Pakistan
Bauxite
Chrome
Coal
Gypsum
Iron
Magnesite
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.)

Southern Rhodesia

Antimony
 Arsenic
 Asbestos
 Barytes
 Beryl
 China clay
 Chrome
 Coal
 Copper
 Corundum
 Felspar
 Fluorspar
 Gold
 Iron
 Lead
 Lithium
 Magnesite, Dolomite
 Manganese
 Mica
 Nickel
 Phosphate
 Pyrites
 Silver
 Tantalite, Columbite
 Tin
 Tripoli
 Tungsten
 Vermiculite

South West Africa

Beryl
 Bismuth
 Cadmium
 Copper
 Diamonds
 Fluorspar
 Germanium
 Graphite
 Iron
 Lead
 Lithium
 Manganese
 Mica
 Phosphate
 Salt
 Sillimanite, Kyanite
 Silver
 Tantalite, Columbite
 Tin
 Tungsten
 Vanadium
 Zinc

Swaziland

Asbestos
 Barytes
 Beryl
 Coal
 Fluorspar
 Gold
 Pyrophyllite
 Silver
 Tin

Swaziland—(cont.)

Yttrotantalite

Tanganyika

China clay
 Coal
 Columbite
 Copper
 Corundum
 Diamonds
 Garnet
 Gold
 Graphite
 Gypsum
 Lead
 Magnesite
 Mica
 Phosphate
 Salt
 Silver
 Tin
 Tungsten
 Vermiculite

Trinidad

Gypsum
 Natural asphalt
 Natural gas
 Natural gasoline
 Petroleum
 Sulphur

Turks and Caicos

Islands

Salt

Uganda

Asbestos
 Beryl
 Bismuth
 Cobalt
 Copper
 Gold
 Iron
 Lead
 Lithium
 Phosphate
 Salt
 Silver
 Tantalite, Columbite
 Tin
 Tungsten

Union of South Africa

Antimony
 Asbestos
 Barytes
 Bentonite
 Beryl
 Bismuth
 China clay
 Chrome
 Coal
 Copper
 Corundum
 Diamonds
 Diatomaceous earth

Union of South Africa

—(cont.)

Felspar
 Fluorspar
 Fuller's earth
 Garnet
 Gold
 Graphite
 Gypsum
 Iron
 Lead
 Lithium
 Magnesite
 Manganese
 Mica
 Molybdenum
 Monazite
 Nickel
 Oil-shale
 Phosphate
 Platinum, Osmiridium
 Pyrites
 Salt
 Sillimanite, Andalusite
 Silver
 Sodium carbonate
 Talc
 Tantalite
 Tin
 Titanium
 Tungsten
 Uranium
 Vanadium
 Vermiculite
 Zinc
 Zircon

United Kingdom

Arsenic
 Barytes, Witherite
 Bromine
 China clay
 China stone
 Coal
 Copper
 Diatomaceous earth
 Fluorspar
 Fuller's earth
 Germanium
 Gypsum, Anhydrite
 Iron
 Lead
 Magnesite, Dolomite
 Oil-shale
 Perlite
 Petroleum
 Pyrites
 Salt
 Strontium
 Sulphur
 Talc
 Tin
 Tungsten
 Zinc

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