

INSTITUTE OF GEOLOGICAL SCIENCES  
OVERSEAS DIVISION  
MINERAL RESOURCES SECTION

STATISTICAL  
SUMMARY OF THE  
MINERAL INDUSTRY

WORLD PRODUCTION,  
EXPORTS AND IMPORTS

1960-1965



LONDON  
HER MAJESTY'S STATIONERY OFFICE

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

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

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## EXPLANATORY NOTES

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

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

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

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

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

From 1960 to 1961 the trade statistics for Egypt and Syria exclude trade between these countries.

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

**Imports and Exports.** Except in the cases of gold and silver, the figures shown in the tables are intended to represent exports of domestic produce and imports: retained, i.e. total imports less re-exports. In certain cases, notably Aden and Malaya, it has not been possible to allow for re-exports and figures relate to total exports and total imports. Shipments of coal and oil as bunker fuel, which constitute an important part of the trade of some countries, are shown separately in the export tables; where these shipments consist of, or include, foreign produce a footnote is given to that effect. The imports of Pakistan for the years 1961 onwards shown in the tables are not strictly comparable with those for preceding years since they include for the first time estimated quantities of imports entered in the official trade returns by value only.

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

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

The factors used for converting volumes of liquids into long tons are given in footnotes to the tables relating to Coal By-Products (p.88) and Petroleum and Allied Products (pp. 246, 260).

**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	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
Kenya—						
Pumice (b) .. ..	2,420	696	1,110	280	1,415	1,023
Rhodesia—						
Corundum .. ..	3,432	2,493	2,989	5,304	2,563	(a) 3,208
Tripoli .. ..	147	365	378	269	310	n.a.
Tanzania—						
Corundum .. ..	—	(a) 4	—	—	—	—
Garnet .. ..	133	—	—	—	n.a.	n.a.
Canada—						
Garnet .. ..	29	71	45	n.a.	n.a.	n.a.
Grindstones .. ..	9	9	9	9	—	8
India—						
Corundum .. ..	246	324	296	648	531	473
Garnet .. ..	(e) 462	(e) 237	(e) r 403	395	290	218
Australia—						
Garnet .. ..	97	63	53	91	80	—
New Zealand—						
Pumice (b) .. ..	43,932	32,712	32,522	16,606	20,518	107,863
OTHER COUNTRIES						
Belgium—						
Grindstones .. ..	49	57	56	59	48	43
France—						
Pumice (b) .. ..	889	1,299	1,675	758	902	697
Millstones .. ..	1,230	1,300	1,210	1,208	1,085	1,173
Sharpening stones .. ..	523	139	126	39	11	10
Germany (Federal)—						
Pumice (d) .. ..	4,234,000	5,266,000	5,617,000	6,289,000	5,729,000	5,016,000
Tripoli .. ..	25	6	25	25	25	25
Greece—						
Emery .. ..	7,000	7,100	7,500	7,470	n.a.	n.a.
Pumice .. ..	80,000	70,000	78,516	50,633	(c) 79,000	(c) 200,000
Pumicite .. ..	180,000	190,000	185,065	234,611	(c) 200,000	(c) 400,000
Iceland—						
Pumice (b) .. ..	(c) 8,000	(c) 8,000	(c) 6,500	12,303	9,842	(c) 10,000
Italy—						
Pumice .. ..	419,700	421,800	455,800	921,000	n.a.	n.a.
Sharpening stones .. ..	320	213	157	157	n.a.	n.a.
Whetstones .. ..	472	399	455	102	n.a.	n.a.
Spain—						
Garnet .. ..	180	185	164	70	—	n.a.
Sweden—						
Grindstones and whetstones .. ..	672	615	623	737	1,945	n.a.
Canary Islands—						
Pumice (b) .. ..	1,441	1,415	1,713	1,505	2,257	n.a.
Egypt—						
Pumice .. ..	2,953	3,871	2,032	8,584	21,231	25,252
Malagasy Republic—						
Garnet .. ..	r 98	49	98	2	(a) 52	(a) 103

\*See also Aluminium, Diamonds and Diatomaceous earth.

(a) Exports.

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

(c) United States Bureau of Mines' estimate.

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

(e) Including small quantities of gem variety.

PRODUCTION OF NATURAL ABRASIVES (cont.)

Long tons

Producing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
South Africa—						
Corundum .. .. .	110	142	312	71	53	307
United States (c)—						
Emery .. .. .	7,294	5,518	3,854	6,011	8,227	n.a.
Garnet .. .. .	9,395	10,765	12,648	13,059	14,396	14,600
Pumice and pumicite						
(a) (b) .. .. .	1,973,540	2,198,737	2,028,000	2,337,503	2,478,993	3,110,600
Tripoli .. .. .	51,529	48,787	55,118	59,496	57,690	n.a.
Grinding pebbles ..	1,011	n.a.	n.a.	n.a.	n.a.	n.a.
Turkey—						
Emery .. .. .	6,706	8,195	3,354	7,372	12,201	12,374

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

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

	1960	1961	1962	1963	1964	1965
Silicon carbide ..	75,546	70,704	58,798	69,974	76,279	n.a.
Fused alumina ..	167,058	111,876	144,508	132,247	132,446	n.a.

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):

	1960	1961	1962	1963	1964	1965
Silicon carbide ..	118,946	112,255	103,318	97,635	117,772	n.a.
Aluminium oxide ..	174,916	122,278	162,432	142,914	153,091	n.a.
Metallic abrasives ..	100,342	97,781	112,296	119,114	139,109	n.a.

(United States plants only)

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

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

(b) Including volcanic cinders used principally for ballast which amounted to 1,436,652 tons in 1960, 1,362,987 tons in 1961, 1,551,417 tons in 1962, 1,399,844 tons in 1963, 1,438,476 tons in 1964 and 2,678,400 tons in 1965.

(c) Sold or used by producers.

## EXPORTS OF ABRASIVES\*

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom—						
Abrasives, natural ..	2,829	2,195	2,045	3,975	3,814	3,125
do. artificial ..	4,435	3,991	5,320	2,687	4,260	5,023
Grinding wheels, etc. ..	5,752	6,777	5,835	6,902	7,233	7,400
Other manufactured abrasives ..	342	301	559			
Rhodesia (d)—						
Corundum ..	3,342	2,620	2,926	4,660	2,972	3,208
Tanzania—						
Corundum ..	—	4	—	—	—	—
Canada—						
Natural abrasives, including diatomaceous earth ..	15	5	—	110	172	128
Artificial abrasives, crude ..	244,946	194,328	203,246	201,219	211,379	239,454
Artificial abrasive wheels, etc. ..	(£26,121)	} (£46,821)	} (£93,721)	} (£48,105)	} (£104,770)	} (£57,345)
Grindstones ..	(£17,028)					
Hong Kong—						
Grinding and polishing wheels, etc. ..	r 54	r 16	r 34	r 27	58	41
India (c)—						
Grindstones, etc. ..	2,550	6,022	1,792	2,089	2,887	703
Malaya—						
Grinding and polishing wheels, etc. ..	101	59	59	18	17	15
New Zealand—						
Pumice (a) ..	995	1,155	456	667	(e) 851	n.a.
<b>OTHER COUNTRIES</b>						
Austria—						
Natural abrasives ..	15	1	3	47	8	—
Millstones and grindstones ..	5	9	13	5	9	4
Corundum, artificial ..	4,382	5,706	9,380	12,693	10,772	14,750
Belgium-Luxemburg						
E.U.—						
Natural abrasives ..	120	112	165	272	8	4
Carborundum ..	169	198	82	202	253	199
Corundum, artificial ..	80	187	28	82	27	145
Millstones, grindstones, etc. (b) ..	517	779	983	1,044	1,150	1,218
Denmark—						
Emery ..	—	—	2	—	2	—
Millstones and grindstones ..	2	6	7	9	54	37
Finland—						
Grindstones, etc. (b) ..	n.a.	n.a.	n.a.	105	99	46
France—						
Corundum and emery ..	260	100	84	58	103	49
Pumice ..	30	37	33	31	52	32
Other natural abrasives ..	107	314	541	459	630	292
Millstones and grindstones ..	701	817	617	} 1,622	} 1,977	} 2,007
Whetstones ..	46	76	15			
Carborundum ..	2,660	2,059	2,066			
Corundum, artificial ..	9,978	14,487	12,204	12,172	9,784	10,011

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

(a) May include pumice for use other than as an abrasive. (d) Figures for years 1960 to 1963 relate to Rhodesia and Nyasaland.

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

## EXPORTS OF ABRASIVES (cont.)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Germany (Federal)—						
Emery and corundum	394	533	453	189	161	243
Pumice (a) .. .. .	649,977	680,570	622,932	694,496	628,613	583,193
Other natural abrasives	9	4	9	3	2	—
Millstones, grindstones, etc. (b) .. .. .	1,898	1,871	1,910	1,751	2,113	5,096
Carborundum .. .. .	5,384	6,160	7,712	6,614	6,083	6,926
Corundum, artificial ..	20,907	17,235	18,207	17,030	19,021	21,031
Greece—						
Emery .. .. .	6,090	5,218	6,772	5,423	4,649	5,632
Pumice .. .. .	31,525	11,951	68,067	43,142	121,092	197,849
Italy—						
Pumice .. .. .	104,209	98,860	133,306	338,395	316,656	146,381
Emery and corundum	319	571	24	66	20	306
Other natural abrasives	48	88	139	487	120	891
Millstones .. .. .	431	353	9	1,237	1,589	2,201
Grindstones .. .. .						
Whetstones .. .. .	73	78	71			
Carborundum .. .. .	3,928	5,929	6,985	7,656	8,220	7,692
Corundum, artificial ..	1,480	1,544	743	441	629	2,172
Netherlands—						
Natural abrasives .. ..	3,876	4,088	4,205	4,248	9,394	4,713
Millstones, grindstones, etc. .. .. .	274	258	338	363	381	557
Corundum, artificial ..	64	36	35	36	13	25
Norway—						
Natural abrasives .. ..	—	2	15	—	76	—
Carborundum .. .. .	16,720	16,503	18,114	15,411	22,453	27,282
Sweden—						
Emery .. .. .	2	—	5	1	11	15
Other natural abrasives	11	43	36	42	41	44
Carborundum .. .. .	710	555	732	446	216	831
Corundum, artificial ..	1,227	1,360	829	677	704	890
Millstones, grindstones, etc. .. .. .	126	158	79	486	1,448	227
Switzerland—						
Carborundum, emery, etc., crude .. .. .	2,169	1,958	1,924	2,842	3,168	3,666
do. do. ground .. .. .						
Yugoslavia—						
Natural abrasives .. ..	723	1,838	2,949	2,009	2,534	48
Millstones, grindstones, etc. .. .. .	22	—	73	116	190	950
Carborundum .. .. .	<i>n.a.</i>	<i>n.a.</i>	8	101	49	34
Malagasy Republic—						
Garnet .. .. .	49	99	76	1	52	103
South Africa—						
Corundum .. .. .	108	143	517	71	53	—
Other natural abrasives	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	87	<i>n.a.</i>
Grinding wheels, etc. ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	212	<i>n.a.</i>
Mexico—						
Pumice, etc. .. .. .	735	231	1,581	6,378	7,051	<i>n.a.</i>
United States—						
Corundum .. .. .	49	86	98	67	138	(c)
Emery powder .. .. .	1,002	1,035	731	559	607	(c)
Grindstones .. .. .	285	110	114	37	160	<i>n.a.</i>
Whetstones, etc. .. ..	166	89	77	62	332	210
Other natural abrasives	9,245	10,140	9,563	11,362	12,492	12,010
Aluminium oxide, fused	9,792	10,525	12,078	11,729	16,706	<i>n.a.</i>
Carborundum .. .. .	7,316	10,921	9,130	8,762	10,013	(d) 11,392
Unfused alumina .. .. .	97	77	133	168	403	<i>n.a.</i>

(a) Including pumice and pumicite for construction purposes. (b) Including artificial.  
 (c) Included with "other natural abrasives". (d) May include other crude artificial abrasives.

EXPORTS OF ABRASIVES (*cont.*)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
United States ( <i>cont.</i> )—						
Other crude artificial abrasives .. .. .	99	130	160	93	155	<i>n.a.</i>
Japan—						
Emery .. .. .	126	155	237	284	361	414
Other natural abrasives	118	127	231	58	96	74
Grindstones, etc. ..	215	159	189	363	788	972
Artificial abrasives ..	345	445	1,214	1,063	817	1,529
Turkey—						
Emery .. .. .	6,975	9,649	8,570	8,220	9,071	16,392



## IMPORTS OF ABRASIVES\*

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—						
Emery .. .. .	2,850	4,416	2,650	11,998	14,153	13,824
Garnet concentrates—						
Unground .. .. .						
Ground .. .. .						
Other natural abrasives	10,224	9,322	8,308			
Corundum, artificial ..	24,570	14,238	12,428	14,031	15,151	17,409
Carborundum .. .. .	14,030	12,510	13,744	11,508	13,763	17,099
Grinding wheels of hard abrasives .. .. .	370	540	691	531	917	1,028
Grindstones and whetstones etc. .. .. .						
Malta—						
Pumice .. .. .	72	100	—	431	7	(£1,089)
Grinding and polishing wheels .. .. .	(£4,647)	(£2,496)	(£2,662)	(£3,442)	(£5,924)	(£4,771)
Ghana—						
Grinding and polishing wheels .. .. .	(£31,365)	68	132	60	57	62
Kenya and Uganda—						
Grindstones, etc. ..	59	60	45	50	69	54
Mauritius—						
Grindstones, etc. ..	58	54	42	43	30	51
Rhodesia (b)—						
Grinding and polishing wheels and stones ..	166	229	184	201	187	179
Tanzania—						
Grindstones, etc. ..	8	12	12	13	12	n.a.
Zambia—						
Grinding and polishing wheels and stones ..	n.a.	n.a.	n.a.	n.a.	63	96
Canada—						
Pumice, etc. .. .. .	n.a.	n.a.	n.a.	n.a.	9,711	9,404
	(£71,816)	(£59,073)	(£79,545)	(£64,685)	(£53,010)	(£58,680)
Emery, etc. .. .. .	(£74,322)	(£66,716)	(£68,553)	(£89,933)	n.a.	n.a.
Artificial abrasives, ground .. .. .	(£752,561)	(£833,720)	(£963,746)	(£982,982)	(£1,373,256)	(£1,402,499)
Artificial abrasive manufactures .. .. .	(£208,550)	(£194,207)	(£190,086)	(£198,462)		
Grindstones and wheels	(£860,635)	(£831,574)	(£903,191)	(£896,632)	(£996,534)	(£1,128,725)
Jamaica—						
Natural abrasives ..	2	6	9	5	12	4
Grindstones .. .. .	12	11	10	8	11	10
Trinidad and Tobago—						
Grindstones and wheels	22	19	15	19	15	n.a.
Ceylon—						
Natural abrasives ..	4	112	27	308	21	16
Grinding and polishing wheels, etc. .. .. .	(£13,909)	(£12,581)	(£12,016)	(£8,369)	(£9,435)	(£11,741)
Cyprus—						
Grindstones and millstones .. .. .	(£8,417)	(£7,757)	(£8,964)	(£11,170)	(£6,538)	(£9,193)
Hong Kong—						
Natural abrasives ..	r 79	r 67	r 165	r 250	200	212
Grinding and polishing wheels, etc. .. .. .	r 203	r 148	r 266	r 820	1,867	329
India (a)—						
Natural abrasives ..	3,679	3,673	2,590	3,196	3,455	536
Carborundum .. .. .	223	202	169	390	107	226
Grinding stones, etc. ..	153	219	201	187	262	322
Malaya—						
Grinding and polishing wheels, etc. .. .. .	476	407	462	313	434	418

\* See also Aluminium, Diamonds and Diatomaceous earth. (b) Figures for years 1960 to 1963 relate to Rhodesia and Nyasaland.

(a) Years ended March 31 following that stated.

## IMPORTS OF ABRASIVES (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES (cont.)</b>						
Sarawak—						
Grinding and polishing wheels, etc. . . . .	38	38	44	32	35	46
Australia (b)—						
Emery . . . . .	108	—	—	—	—	—
Corundum . . . . .	35	—	—	—	—	—
Pumice . . . . .	1,215	1,046	1,134	1,128	920	1,012
Grindstones, etc. . . . .	183	228	150	254	293	386
Garnet grains . . . . .	41	50	43	44	105	128
Tripoli . . . . .	303	465	338	453	729	536
Other natural abrasives	472	457	523	590	1,129	1,520
Artificial abrasives . . . . .	2,813	4,202	2,648	4,586	4,547	5,611
New Zealand—						
Pumice . . . . .	—	—	—	(b) 47	(b) 53	n.a.
Corundum, emery, etc. . . . .	19	20	8	(b) 3	(b) 8	n.a.
Other natural abrasives (£N.Z.)	(£3,808)	(£4,169)	(£2,587)	(b)(£11,644)	(b)(£10,492)	n.a.
Carborundum, etc. . . . .	44	74	74	(b) —	(b) —	n.a.
Grindstones, etc. (£N.Z.)	r(£112,628)	r(£119,968)	(£126,446)	b(£157,693)	b(£181,464)	n.a.
Irish Republic—						
Grindstones, oilstones, etc. . . . .	136	171	178	178	219	233
<b>OTHER COUNTRIES</b>						
Austria—						
Pumice . . . . .	659	835	400	350	698	643
Other natural abrasives	160	107	135	114	136	106
Carborundum . . . . .	1,039	1,191	1,096	1,466	1,589	1,778
Corundum, artificial . . . . .	2,298	2,400	2,392	2,565	3,390	3,338
Grindstones . . . . .	221	146	141	93	95	116
Millstones . . . . .						
Belgium-Luxemburg						
E.U.—						
Pumice . . . . .	n.a.	205,028	173,635	206,435	187,555	206,788
Other natural abrasives	1,063	1,491	825	855	889	711
Corundum, artificial . . . . .	1,524	1,604	1,824	2,050	2,632	3,110
Millstones, grindstones, etc. (a) . . . . .	1,014	1,170	1,186	1,191	1,447	1,408
Carborundum . . . . .	1,463	1,918	1,943	1,729	2,929	2,526
Denmark—						
Emery, etc. . . . .	616	416	505	520	673	721
Pumice . . . . .	1,986	2,655	2,927	2,177	3,459	2,371
Carborundum . . . . .	429	286	293	289	391	440
Corundum, artificial . . . . .	444	431	383	407	439	439
Millstones and grindstones . . . . .	134	83	127	45	73	49
Finland—						
Emery, pumice, etc. . . . .	531	434	381	342	377	295
Carborundum . . . . .	290	493	729	599	207	602
Millstones, grindstones, etc. (a) . . . . .	1,289	1,463	1,416	1,146	1,397	1,399
France—						
Emery and corundum	1,811	1,854	1,581	2,522	1,372	4,857
Pumice . . . . .	37,979	23,726	30,387	28,384	36,897	36,100
Other natural abrasives	151	303	256	3,534	3,646	2,135
Millstones and grindstones . . . . .	178	233	386	2,569	2,998	3,478
Whetstones . . . . .	142	60	44			
Carborundum . . . . .	2,012	4,065	4,292	3,046	3,876	4,514
Corundum, artificial . . . . .	899	1,110	1,664	2,170	1,391	1,544
Germany (Federal)—						
Emery and corundum . . . . .	1,457	866	1,099	762	1,182	538

(a) Including artificial.

(b) Years ended June 30 of that stated.

## IMPORTS OF ABRASIVES (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES (cont.)						
Germany (Fed.) (cont.)—						
Pumice, etc. . . . .	9,576	8,310	6,582	186,688	203,795	108,748
Other natural abrasives	1,211	1,415	1,771	1,475	1,737	2,512
Millstones, grindstones, etc. (a) . . . . .	281	582	341	300	391	2,242
Carborundum . . . . .	3,450	4,868	4,033	4,424	5,144	6,401
Corundum, artificial . . . . .	2,539	2,117	2,587	3,290	3,707	4,546
Greece—						
Millstones, grindstones, etc. . . . .	90	138	142	194	129	209
Other abrasives . . . . .	134	155	135	180	170	224
Iceland—						
Millstones, etc. . . . .	12	14	16	10	11	13
Italy—						
Emery and corundum . . . . .	2,277	2,651	2,003	1,898	1,556	1,316
Other natural abrasives	938	1,244	1,143	1,358	1,397	1,282
Millstones . . . . .	340	455	34	2,996	2,518	2,489
Grindstones . . . . .						
Whetstones . . . . .						
Corundum, artificial . . . . .	4,996	4,811	5,120	5,806	5,577	3,829
Carborundum . . . . .	2,028	2,667	4,144	3,081	1,872	1,800
Netherlands—						
Emery . . . . .	4,616	4,193	5,593	4,993	4,803	5,417
Pumice and tripoli . . . . .	64,996	468,332	433,504	465,654	435,652	421,349
Other natural abrasives	1,670	614	463	482	404	426
Millstones and grindstones (a) . . . . .	1,247	1,311	1,318	1,216	1,417	1,642
Corundum, artificial . . . . .	2,236	2,246	2,025	2,057	2,714	3,160
Carborundum . . . . .	861	523	610	544	695	714
Norway—						
Natural abrasives . . . . .	429	436	388	381	344	332
Whetstones . . . . .	3	2	8	8	4	7
Carborundum . . . . .	45	31	14	966	16	76
Corundum, artificial . . . . .	557	626	525	513	698	609
Portugal—						
Emery, etc. . . . .	191	351	186	331	280	420
Pumice . . . . .	115	176	255	211	360	356
Millstones etc. . . . .	20	64	44	170	192	220
Spain—						
Emery powder . . . . .	n.a.	n.a.	n.a.	n.a.	138	664
Carborundum . . . . .	381	572	788	904	871	1,138
Sweden—						
Emery . . . . .	728	635	405	589	546	630
Pumice . . . . .	416	361	700	716	643	516
Other natural abrasives						
Carborundum, etc. . . . .						
Corundum, artificial . . . . .	7,585	5,390	4,329	3,623	4,453	5,671
Grindstones, etc. . . . .	94	121	99	73	63	80
Millstones . . . . .						
Switzerland—						
Emery, crude . . . . .	625	1,353	1,503	737	677	1,163
Carborundum, emery, etc., ground . . . . .						
Pumice (b) . . . . .						
Millstones . . . . .	23,596	20,467	18,194	14,794	7,544	2,375
Grindstones . . . . .	148	107	82	72	98	76
Whetstones . . . . .	26	19	21	22	11	14
Corundum, artificial . . . . .	3,532	3,751	4,250	3,413	4,004	4,882
Yugoslavia—						
Natural abrasives . . . . .	570	1,091	884	766	422	267
Millstones, grindstones, etc. . . . .	834	348	245	328	350	486
Carborundum . . . . .	289	670	613	596	1,024	844

(a) Including artificial.

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

## IMPORTS OF ABRASIVES (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Algeria—						
Emery, corundum, etc.	102	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Pumice (b) .. .. .	45,947	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Millstones and grindstones.. .. .	113	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Egypt—						
Natural abrasives .. .. .	2,034	1,726	1,647	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Millstones .. .. .	1	2	66	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Grindstones .. .. .	16	2				
Whetstones .. .. .	1	4	93	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Malagasy Republic—						
Natural abrasives .. .. .	15	15	17	18	14	<i>n.a.</i>
Morocco—						
Millstones and grindstones.. .. .	56	50	65	144	148	132
Natural abrasives .. .. .	30	96	8	27	23	12
South Africa—						
Emery .. .. .	105	37	87	164	3,526	<i>n.a.</i>
Pumice .. .. .	63	71	105	126		
Other abrasives.. .. .	(£186,319)	(£192,400)	(£270,138)	(£271,772)	181	<i>n.a.</i>
Abrasive wheels and discs .. .. .	(£124,859)	(£130,512)	(£154,988)	(£102,890)		
Grindstones, millstones, etc. .. .. .	(£3,084)	(£4,708)	(£4,400)	(£7,760)		
Sudan—						
Natural abrasives .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	167	152	34
Grindstones .. .. .	108	64	72	221	172	221
Tunisia—						
Pumice .. .. .	11	252	42	11	46	29
Millstones and grindstones (a) .. .. .	440	79	33	31	71	33
Costa Rica—						
Pumice, emery and corundum .. .. .	15	3	9	45	6	10
Guatemala—						
Natural abrasives .. .. .	5	3	3	11	6	5
Mexico—						
Emery and carborundum	746	1,125	1,018	990	1,626	<i>n.a.</i>
Pumice .. .. .	27	9	67	9	156	<i>n.a.</i>
Millstones and grindstones.. .. .	828	887	428	121	306	<i>n.a.</i>
United States—						
Corundum, crude .. .. .	2,370	2,139	2,170	1,817	1,758	1,696
Emery, crude .. .. .	—	1,000	2,000	500	<i>n.a.</i>	<i>n.a.</i>
Corundum and emery, ground .. .. .	3	15	780	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Pumice, crude .. .. .	5,853	6,168	6,371	2,171	4,910	8,889
do. manufactured .. .. .	3,496	3,628	2,843	2,019	2,761	3,152
Tripoli, etc. .. .. .	34	—	<i>n.a.</i>	20	<i>n.a.</i>	8
Crude artificial abrasives	223,352	176,784	185,657	182,353	198,260	226,767
Argentina—						
Emery .. .. .	1,540	2,359	1,447	1,098	2,389	3,426
Grindstones .. .. .	5	18	15	14	45	14

(a) Including artificial.

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

## IMPORTS OF ABRASIVES (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES (cont.)						
Brazil—						
Emery, pumice, etc. ..	99	101	71	31	52	55
Carborundum .. ..	462	470	176	155	149	172
Millstones, grindstones, etc. .. ..	166	158	98	77	85	49
Chile—						
Emery .. ..	62	121	17	166	<i>n.a.</i>	<i>n.a.</i>
Carborundum .. ..	5	—	—	4	<i>n.a.</i>	<i>n.a.</i>
Millstones, grindstones, etc. .. ..	397	318	220	371	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Emery and pumice ..	65	35	69	102	75	105
Tripoli and other natural abrasives ..	39	49	30	46	31	31
Millstones and grind- stones (a) .. ..	176	196	224	239	253	193
Corundum, artificial ..	18	31	68	99	255	104
Peru—						
Emery and pumice ..	34	38	47	53	53	<i>n.a.</i>
Millstones, grindstones, etc. (a) .. ..	99	109	160	112	125	<i>n.a.</i>
Venezuela—						
Natural abrasives ..	102	99	77	35	138	164
Carborundum .. ..	38	41	22	16	9	49
Burma—						
Natural abrasives ..	453	55	194	<i>n.a.</i>	—	—
Indonesia—						
Emery .. ..	106	66	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Other natural abrasives	39	186	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Iran (b)—						
Emery, etc. .. ..	29	10	4	<i>n.a.</i>	16	48
Iraq—						
Emery, pumice, etc. ..	28	164	5	1	4	<i>n.a.</i>
Grindstones, whet- stones, etc. .. ..	256	178	123	209	166	<i>n.a.</i>
Israel—						
Natural abrasives ..	<i>n.a.</i>	54	193	105	112	1,651
Japan—						
Emery .. ..	157	194	126	89	60	38
Other natural abrasives	517	594	893	1,099	1,445	1,337
Grindstones, etc. ..	10	10	12	18	12	110
Artificial abrasives ..	834	1,772	1,363	743	1,283	1,224
Lebanon—						
Emery .. ..	5	1	2	10	6	<i>n.a.</i>
Pumice, etc. .. ..	673	635	426	767	1,007	<i>n.a.</i>
Millstones .. .. (a)	130	106	126	155	137	<i>n.a.</i>
Philippine Republic—						
Emery .. ..	211	313	159	178	243	<i>n.a.</i>
Pumice .. ..	—	4	8	24	19	<i>n.a.</i>
Other natural abrasives	39	70	19	30	55	<i>n.a.</i>
Thailand—						
Natural abrasives ..	485	607	647	624	549	892
Turkey—						
Natural abrasives ..	—	—	—	—	—	—
Carborundum .. ..	3	98	122	135	17	26
Millstones and grind- stones (a) .. ..	561	648	511	443	313	534

(a) Including artificial.

(b) Years ended March 20 following that stated.

**ALUMINIUM**  
**(Including Bauxite and Cryolite)**  
**PRODUCTION OF BAUXITE**

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Ghana .. .. .	190,700	200,700	239,500	309,400	246,400	304,200
Sierra Leone .. .. .	4	—	—	(a) 19,635	128,418	204,000
Rhodesia .. .. .	—	—	500	1,812	2,438	n.a.
Jamaica (b) .. .. .	5,744,791	6,663,120	7,495,122	6,903,115	7,811,188	8,514,365
British Guiana (c) .. .. .	2,471,190	2,373,615	2,718,997	2,129,046	2,477,628	2,872,588
India .. .. .	381,262	468,389	563,859	559,643	582,862	695,000
Malaya .. .. .	451,958	409,881	349,419	444,047	463,829	843,172
Pakistan (f) .. .. .	574	1,411	—	—	—	—
Sarawak .. .. .	284,830	253,389	225,459	155,243	158,090	135,163
Australia .. .. .	69,435	15,976	29,547	354,206	783,900	1,161,534
<b>TOTAL .. .. .</b>	<b>9,594,700</b>	<b>10,386,500</b>	<b>r11,622,400</b>	<b>10,876,100</b>	<b>12,654,800</b>	<b>14,730,000</b>
<b>OTHER COUNTRIES</b>						
Austria .. .. .	25,595	17,729	16,693	17,548	3,649	—
France .. .. .	2,034,654	2,189,765	2,159,681	1,996,873	2,394,308	2,619,000
Germany (Federal) .. .. .	3,752	4,165	4,583	4,263	4,090	3,832
Greece .. .. .	869,741	1,102,000	1,266,499	r 1,256,342	(e)1,300,000	(e)1,100,000
Hungary .. .. .	1,171,120	1,344,478	1,444,695	1,341,140	1,453,958	1,455,000
Italy .. .. .	308,088	322,012	304,547	265,400	232,348	240,571
Roumania .. .. .	87,000	68,000	30,000	10,000	7,000	12,000
Spain .. .. .	2,532	5,506	5,951	11,632	6,665	n.a.
U.S.S.R. (e) .. .. .	3,500,000	4,000,000	4,200,000	4,300,000	4,300,000	4,600,000
Yugoslavia .. .. .	1,009,000	1,213,000	1,311,000	1,265,000	1,273,000	1,549,000
Guinea .. .. .	1,356,052	1,738,775	r 1,445,000	1,638,000	1,652,000	1,840,000
Mozambique .. .. .	4,764	4,597	6,118	6,493	6,179	5,593
Dominican Republic (b) .. .. .	678,000	738,661	664,778	712,050	800,662	878,921
Haiti (b) .. .. .	268,000	263,000	370,000	327,000	373,000	320,000
United States (b) .. .. .	1,998,000	1,228,000	1,369,000	1,525,000	1,601,000	1,654,000
Brazil .. .. .	118,856	109,635	187,696	166,957	129,571	153,505
Surinam .. .. .	3,400,000	r 3,398,000	r3,245,000	r3,384,000	3,929,875	4,291,000
Indonesia .. .. .	389,429	413,225	r 453,916	485,323	637,574	(e) 700,000
Turkey .. .. .	—	—	—	—	4,398	10,121
<b>TOTAL (d) .. .. .</b>	<b>17,200,000</b>	<b>18,100,000</b>	<b>18,500,000</b>	<b>r18,700,000</b>	<b>20,100,000</b>	<b>21,400,000</b>
<b>WORLD'S TOTAL (d) .. .. .</b>	<b>26,800,000</b>	<b>28,500,000</b>	<b>30,100,000</b>	<b>r29,600,000</b>	<b>32,800,000</b>	<b>36,200,000</b>

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):

	1960	1961	1962	1963	1964	1965
Metallurgical .. .. .	1,645,457	1,089,071	1,341,846	897,922	740,244	1,123,848
Chemical .. .. .	143,926	142,387	129,256	76,248	100,321	133,781
Refractory .. .. .	160,966	203,442	219,410	236,065	326,180	361,714
Abrasive .. .. .	148,033	168,923	146,975	124,032	142,432	124,239

Exports of calcined ore are shown on page 13.

(d) Estimated.

(e) United States Bureau of Mines' estimate.

(f) West Pakistan.

**PRODUCTION (EXPORTS) OF CRYOLITE IN GREENLAND**

Year	Long tons
1960 .. .. .	41,785
1961 .. .. .	41,115
1962 .. .. .	40,296
1963 .. .. .	66,076
1964 .. .. .	50,078
1965 .. .. .	58,971

PRODUCTION OF ALUMINIUM

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom .. .. .	28,921	32,294	34,030	30,574	31,711	35,635
Canada .. .. .	680,368	592,119	616,337	642,312	752,680	750,307
India .. .. .	17,967	18,092	34,653	54,358	55,772	66,108
Australia .. .. .	11,655	13,204	16,152	41,263	78,744	86,379
<b>TOTAL .. .. .</b>	<b>738,911</b>	<b>655,709</b>	<b>701,172</b>	<b>768,507</b>	<b>918,907</b>	<b>938,429</b>
<b>OTHER COUNTRIES</b>						
Austria .. .. .	66,897	66,585	72,665	75,256	64,716	76,410
Czechoslovakia .. .. .	39,400	49,200	(b) 60,000	(b) 60,000	(b) 60,000	(b) 61,000
France .. .. .	234,723	275,042	290,436	293,653	310,999	319,403
Germany—						
Federal .. .. .	166,269	169,833	175,016	205,485	216,445	234,433
East (a) .. .. .	40,000	40,000	37,000	40,000	45,000	50,000
Hungary .. .. .	48,752	50,256	51,899	54,621	55,976	57,181
Italy .. .. .	82,325	82,037	81,599	89,984	113,694	122,018
Norway .. .. .	162,198	168,847	202,626	212,687	256,897	271,928
Poland .. .. .	25,600	46,800	47,300	45,900	47,000	46,600
Spain .. .. .	23,597	37,053	41,030	44,770	48,860	50,589
Sweden .. .. .	15,732	15,592	15,696	16,800	31,600	29,100
Switzerland .. .. .	39,103	41,543	48,787	59,161	63,220	66,089
U.S.S.R. (b) .. .. .	630,000	880,000	890,000	950,000	1,000,000	1,260,000
Yugoslavia .. .. .	24,674	26,974	27,538	35,328	34,214	40,665
Cameroun .. .. .	43,246	43,010	51,423	52,077	51,033	50,000
Mexico .. .. .	—	—	—	5,400	17,487	18,787
United States .. .. .	1,798,659	1,699,742	1,891,029	2,064,757	2,279,238	2,459,355
Brazil .. .. .	17,888	19,713	19,823	17,332	26,219	29,123
China (b) .. .. .	78,700	100,000	100,000	100,000	100,000	100,000
Formosa .. .. .	8,131	8,874	10,835	11,740	19,066	18,613
Japan .. .. .	r 129,166	r 150,104	r 166,984	r 218,566	259,655	287,455
<b>TOTAL .. .. .</b>	<b>3,700,000</b>	<b>4,000,000</b>	<b>4,300,000</b>	<b>4,700,000</b>	<b>5,100,000</b>	<b>5,600,000</b>
<b>WORLD'S TOTAL</b>	<b>4,500,000</b>	<b>4,600,000</b>	<b>5,000,000</b>	<b>5,400,000</b>	<b>6,000,000</b>	<b>6,500,000</b>

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

	1960	1961	1962	1963	1964	1965
United Kingdom .. .. .	129,812	131,024	141,180	161,077	183,113	185,801
France .. .. .	43,000	43,000	46,000	49,000	50,000	44,000
Germany (Federal) .. .. .	131,580	133,311	140,486	153,929	185,583	199,716
Italy .. .. .	22,325	14,554	17,653	20,511	n.a.	n.a.
United States .. .. .	294,152	303,791	412,282	451,421	492,581	558,000
Japan .. .. .	48,700	68,400	70,400	89,400	102,800	116,000

(a) Estimated.

(b) United States Bureau of Mines' estimate.



## EXPORTS OF ALUMINIUM, ETC.\*

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—						
Alumina and hydrate ..	26,349	23,829	15,825	19,458	17,138	20,915
Unwrought (a) ..	3,925	5,408	5,379	7,444	6,738	23,931
Scrap (a) ..	94	2,800	4,232	2,305	1,561	6,790
Semi-manufactures (a) ..	49,267	53,165	59,178	54,999	47,031	45,707
of which—Foil ..	7,157	6,096	6,473	6,617	7,273	7,039
Powder ..	983	510	466	289	427	600
Aluminium sulphates ..	38,457	33,486	27,807	24,352	36,651	38,307
Ghana—						
Bauxite ..	224,472	196,072	286,798	207,423	264,458	282,887
Sierra Leone—						
Bauxite ..	4	—	—	19,635	126,553	173,472
Canada—						
Alumina ..	<i>n.a.</i>	16,853	3,458	2,361	4,501	6,937
Unwrought (a) ..	492,995	434,857	514,470	567,131	560,707	631,707
Scrap ..	24,616	26,285	27,005	38,880	29,292	34,746
Semi-manufactures (a) ..	27,012	20,639	20,630	24,187	16,458	23,590
of which—Foil ..	117	131	413	1,080	338	389
Jamaica—						
Bauxite (b) ..	4,147,555	4,974,802	5,986,678	5,161,568	5,967,210	6,748,459
Alumina ..	665,361	703,483	627,645	<i>r</i> 725,613	768,085	720,599
British Guiana—						
Bauxite, dried ..	1,787,963	1,235,556	1,465,266	( <i>d</i> ) 974,170	585,452	1,263,490
do. calcined ..	306,958	370,761	366,277	( <i>d</i> ) 358,366	733,854	494,374
Alumina ..	—	120,161	214,639	( <i>d</i> ) 221,993	245,195	275,211
Hong Kong—						
Scrap ..	<i>r</i> 540	797	638	790	992	1,456
Semi-manufactures (a) ..	<i>r</i> 1,036	<i>r</i> 1,817	<i>r</i> 1,753	<i>r</i> 1,665	2,803	2,292
India—						
Bauxite ..	74,446	97,725	245,186	133,035	92,932	61,840
Unwrought (a) ( <i>c</i> ) ..	—	—	—	7,204	534	2
Semi-manufactures ( <i>a</i> ) ( <i>c</i> ) ..	19	19	15	76	290	1,112
Aluminium sulphate ( <i>c</i> ) ..	449	62	1,649	5,819	11,815	7,336
Malaya—						
Bauxite ..	447,996	284,357	314,858	450,463	547,945	670,894
Unwrought (a) ..	4	17	—	25	2	—
Semi-manufactures (a) ..	275	241	457	343	278	316
of which—Foil ..	34	35	276	143	44	7
Aluminium sulphates ..	347	126	129	70	56	59
Sarawak—						
Bauxite ..	260,120	256,442	198,698	172,181	165,903	164,609
Australia—						
Bauxite ..	29,778	30,489	6,470	143,339	405,825	610,574
Unwrought (a) ..	20	7	40	5,323	15,128	21,207
Scrap (a) ..	659	564	355	250	405	1,073
Semi-manufactures (a) ..	282	345	248	253	563	2,152

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

(a) Including alloys.

(c) Years ended March 31 following that stated.

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

(d) Provisional.

## EXPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<b>Austria—</b>						
Bauxite .. .. .	5,584	7,671	4,969	6,747	2,350	—
Unwrought (a) .. .. .	21,399	27,858	41,144	34,829	33,327	31,466
Scrap .. .. .	4,011	3,537	4,299	4,137	4,210	4,369
Semi-manufactures (a)	9,383	14,323	15,734	19,204	21,725	21,346
of which—Foil .. .. .	3,825	2,488	2,768	2,831	2,958	3,796
Powder .. .. .	584	828	962	868	1,126	913
<b>Belgium-Luxemburg—</b>						
Bauxite .. .. .	3	—	—	73	14	315
Cryolite .. .. .	216	118	134	88	141	140
Alumina and hydrate .. .. .	109	8	2	1	3	8
Unwrought .. .. .	252	105	158	113	334	1,201
do. alloys .. .. .	674	496	637	700	723	1,120
Scrap .. .. .	1,788	1,998	2,700	5,040	6,501	8,362
Semi-manufactures (a)	43,081	51,317	57,674	69,050	83,025	97,230
Aluminium sulphates .. .. .	17,504	12,329	12,509	13,962	14,511	15,030
<b>Denmark—</b>						
Refined cryolite .. .. .	23,197	24,578	25,008	24,861	23,988	25,732
Unwrought .. .. .	30	10	5	130	1	—
do. alloys .. .. .	1,355	1,398	1,427	1,884	1,880	3,019
Scrap .. .. .	703	851	697	454	329	443
Semi-manufactures (a)	1,327	790	705	729	683	895
of which—Foil .. .. .	233	193	205	178	192	223
<b>Finland—</b>						
Unwrought .. .. .	478	75	101	76	788	293
Semi-manufactures .. .. .	241	571	593	1,041	1,182	1,093
of which—Foil .. .. .	237	456	555	982	1,037	988
<b>France—</b>						
Bauxite .. .. .	312,097	252,264	262,418	202,649	196,481	198,596
Cryolite .. .. .	79	2	117	87	39	547
Alumina .. .. .	139,413	136,148	165,097	168,100	139,557	105,030
do. hydrate .. .. .	12,579	15,802	13,243	12,905	14,555	24,616
Unwrought .. .. .	56,428	104,775	84,254	82,513	85,409	122,687
do. alloys .. .. .	14,208	17,076	19,274	40,209	37,778	57,127
Scrap (a) .. .. .	1,513	2,262	7,202	12,174	11,246	6,181
Semi-manufactures (a)	25,858	26,296	28,715	32,713	51,624	45,103
of which—Foil .. .. .	6,858	5,439	7,179	8,106	7,876	8,382
Powder .. .. .	495	183	90	166	256	423
Aluminium sulphates .. .. .	9,436	6,828	7,824	10,992	10,956	11,690
<b>Germany (Federal)—</b>						
Bauxite and cryolite .. .. .	406	458	622	732	833	1,323
Alumina .. .. .	66,398	72,706	65,059	70,378	74,200	77,448
do. hydrate .. .. .	24,776	26,897	28,146	28,834	34,869	37,575
Unwrought .. .. .	1,713	2,407	2,015	9,523	4,487	4,808
do. alloys .. .. .	982	1,359	3,914	4,437	5,194	5,197
Scrap (a) .. .. .	215	512	1,451	1,428	1,126	842
Semi-manufactures (a) .. .. .	37,336	41,094	46,332	52,259	56,656	58,700
of which—Foil .. .. .	15,946	15,857	16,773	19,853	22,503	26,392
Powder .. .. .	1,579	1,445	1,397	1,391	1,686	2,135
<b>Greece—</b>						
Bauxite .. .. .	891,359	1,033,511	886,665	1,100,000	1,046,324	1,131,921
<b>Hungary—</b>						
Bauxite .. .. .	490,959	689,509	707,661	656,409	749,069	555,000
Alumina .. .. .	119,241	142,666	124,401	132,300	154,149	191,000
Unwrought .. .. .	9,693	8,582	6,427	10,373	11,998	19,278
Semi-manufactures .. .. .	4,217	5,289	5,449	5,007	4,839	5,696
<b>Italy—</b>						
Bauxite .. .. .	—	—	n.a.	915	2,151	516
Alumina .. .. .	42,844	29,028	27,982	20,165	5,305	8,456
do. hydrate .. .. .	90	46	2,715	2,647	2,975	2,966
Unwrought .. .. .	894	17	131	248	18,868	31,536
do. alloys .. .. .	323	70				

(a) Including alloys.

## EXPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES						
<i>(cont.)</i>						
Italy <i>(cont.)</i> —						
Semi-manufactures (a)	5,407	6,633	7,152	8,224	17,206	22,644
of which—Foil.. ..	979	849	739	902	1,200	1,736
Aluminium sulphates ..	8,733	10,530	10,388	8,869	126	2,506
Netherlands—						
Bauxite .. ..	45	224	635	830	147	2
Unwrought (a) .. ..	647	2,393	772	267	741	1,003
Scrap (a) .. ..	1,847	2,167	4,777	7,279	8,843	9,318
Semi-manufactures (a)	9,018	10,074	10,605	11,723	13,499	15,605
of which—Foil.. ..	3,186	3,232	2,992	3,430	3,695	3,592
Powder .. ..	147	81	2	3	2	1
Aluminium sulphates ..	16	24	9	6	10	192
Norway—						
Alumina .. ..	2	2	24	—	—	4
Unwrought .. ..	125,853	138,658	160,002	r 195,491	248,852	227,262
do. alloys .. ..	10,105	5,327	8,976	8,722	11,768	11,303
Scrap .. ..	420	291	423	636	251	618
Semi-manufactures (a)	5,103	4,354	4,446	r 4,171	4,595	4,995
of which—Foil.. ..	95	45	151	r 146	189	263
Powder .. ..	7	27	37	129	95	82
Roumania—						
Bauxite .. ..	86,700	32,500	14,800	7,874	—	—
Spain—						
Unwrought .. ..	10,887	3,934	10,439	10,130	8,105	—
Semi-manufactures (a)	2,229	4,202	13,943	5,308	2,603	1,989
Sweden—						
Unwrought (a) .. ..	76	82	241	501	2,114	1,764
Scrap .. ..	904	686	822	802	887	598
Semi-manufactures (a)	6,401	5,919	7,382	9,959	11,380	8,212
of which—Powder ..	378	228	344	404	365	421
Aluminium sulphates ..	9,617	9,181	9,499	11,463	8,374	6,814
Switzerland—						
Alumina and hydrate	38	32	58	60	118	110
Unwrought and scrap ..	7,342	5,983	8,428	17,891	18,864	19,111
do. alloys .. ..						
Semi-manufactures (a)	16,840	14,872	15,040	16,842	19,909	22,528
U.S.S.R.—						
Cryolite .. ..	3,100	3,100	2,800	3,000	3,400	3,200
Unwrought .. ..	67,000	84,600	113,900	120,200	172,400	225,400
Semi-manufactures ..	13,287	8,956	21,062	25,294	33,561	41,400
Yugoslavia—						
Bauxite .. ..	790,398	915,107	899,523	981,512	1,062,639	932,672
Alumina and hydrate ..	19,317	14,000	13,959	13,058	13,700	11,419
Unwrought .. ..	—	—	—	930	1,141	1,169
Scrap .. ..	59	1,176	1,887	2,209	1,637	2,384
Semi-manufactures ..	14,229	11,745	12,456	13,966	18,201	21,321
Algeria—						
Scrap (a) .. ..	1,053	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Cameroun—						
Unwrought .. ..	41,408	45,416	50,125	51,459	47,956	45,377
Guinea—						
Bauxite .. ..	693,703	346,024	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Alumina .. ..	168,669	384,663	450,425	479,000	<i>n.a.</i>	<i>n.a.</i>
Morocco—						
Scrap (a) .. ..	971	1,038	670	469	261	440
Mozambique—						
Bauxite .. ..	4,389	4,082	5,424	5,760	7,249	5,880
South Africa—						
Semi-manufactures	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	936	<i>n.a.</i>

(a) Including alloys.

## EXPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Tunisia—						
Unwrought and scrap	218	233	309	256	187	224
Dominican Republic—						
Bauxite .. .. .	774,716	855,516	(d) 873,600	931,966	909,028	(d) 1,185,725
Greenland—						
Cryolite .. .. .	41,785	41,115	40,296	66,076	50,078	58,971
Haiti—						
Bauxite (c) .. .. .	395,000	335,000	(d) 505,800	r (d) 379,630	(d) 458,287	(d) 442,300
United States—						
Alumina, etc. .. .. .	29,317	150,683	258,561	203,196	293,542	146,830
Cryolite (b) .. .. .	202	149	990	3,320	3,022	3,895
Unwrought (a) .. .. .	254,446	115,054	134,997	147,625	186,702	147,849
Scrap (a) .. .. .	70,994	73,219	58,513	63,429	61,263	34,417
Semi-manufactures .. .. .	21,192	31,126	49,993	62,354	66,415	102,041
of which—Foil .. .. .	1,177	1,515	2,220	1,636	1,487	2,762
Powder (Al content)	302	266	427	438	495	562
Aluminium sulphates .. .. .	10,970	12,691	15,871	15,693	14,742	13,965
Argentina—						
Unwrought .. .. .	n.a.	n.a.	n.a.	1,729	1,295	134
Aluminium sulphates .. .. .	n.a.	n.a.	n.a.	13	50	34
Brazil—						
Bauxite .. .. .	2,018	1,673	1,968	2,264	3,494	2,166
Surinam—						
Bauxite .. .. .	3,577,000	3,350,000	3,202,900	3,427,146	3,921,312	4,299,917
Formosa—						
Unwrought (a) .. .. .	60	2,403	2,585	3,377	7,093	5,645
Semi-manufactures (a) .. .. .	921	1,251	1,483	2,326	3,225	2,691
Aluminium sulphates .. .. .	n.a.	n.a.	n.a.	n.a.	n.a.	522
Indonesia—						
Bauxite .. .. .	342,454	414,083	389,111	n.a.	n.a.	n.a.
Israel—						
Scrap .. .. .	—	35	258	699	855	801
Japan—						
Bauxite .. .. .	n.a.	n.a.	1,026	394	591	787
Cryolite .. .. .	—	—	2	—	—	1
Alumina .. .. .	77,854	102,222	94,900	99,856	102,100	92,427
do. hydrate .. .. .	1,443	2,318	5,998	4,209	6,155	8,101
Unwrought .. .. .	6	14	5,406	13,889	18,870	28,654
Semi-manufactures (a) .. .. .	9,000	10,457	12,419	17,929	16,916	24,833
of which—Foil .. .. .	1,663	2,265	3,365	2,495	2,809	3,296
Aluminium sulphates .. .. .	9,567	12,640	12,340	17,749	14,582	12,228

(a) Including alloys.

(b) Including artificial.

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

(d) United States imports.

## IMPORTS OF ALUMINIUM, ETC.\*

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—						
Bauxite .. ..	375,316	395,014	425,667	331,195	373,550	466,391
Cryolite .. ..	3,578	3,855	1,930	3,110	3,398	2,494
Alumina .. ..	7,048	4,672	5,001	4,884	8,603	9,612
Unwrought .. ..	257,801	195,549	197,670	203,978	255,164	236,971
do. alloys .. ..	52,733	40,336	52,885	62,814	70,203	79,772
Scrap (a) .. ..	15,695	5,712	8,437	8,992	12,010	23,479
Semi-manufactures (a)	13,504	21,084	21,744	26,142	26,166	23,928
of which—Foil .. ..	1,848	1,777	2,263	2,341	3,177	2,794
Malta—						
Semi-manufactures ..	(£21,140)	(£35,054)	(£23,325)	(£49,060)	(£114,924)	(£60,373)
Ghana—						
Unwrought (a) .. ..	1,849	2,604	924	191	78	283
Semi-manufactures (a)		2,081	3,303	7,207	1,122	5,909
Kenya—						
Unwrought (a) .. ..	1,634	1,209	1,235	1,743	761	22
Semi-manufactures (a)	1,267	773	621	864	630	728
of which—Foil .. ..	211	183	194	174	176	184
Mauritius—						
Semi-manufactures (a)	201	136	227	285	345	324
Nigeria—						
Unwrought and semi-manufactures (a) ..	3,877	4,779	5,242	5,896	6,325	2,402
Rhodesia (b)—						
Semi-manufactures (a)	1,198	1,113	1,241	1,127	806	1,106
of which—Foil .. ..	137	213	296	216	115	129
Sierra Leone—						
Semi-manufactures (a)	56	316	89	123	29	62
Tanzania—						
Semi-manufactures (a)	290	170	163	190	932	n.a.
Uganda—						
Semi-manufactures (a)	686	299	192	88	162	433
of which—Foil .. ..	77	87	94	55	113	97
Zambia—						
Semi-manufactures (a)	n.a.	n.a.	n.a.	n.a.	184	346
Barbados—						
Semi-manufactures (a)	12	33	74	48	63	98
Jamaica—						
Semi-manufactures (a)	1,145	1,384	1,111	1,212	1,925	2,049
Canada—						
Bauxite .. ..	2,663,274	2,135,100	1,994,356	1,967,842	1,563,668	1,827,745
Alumina .. ..					777,655	714,265
Cryolite .. ..	7,446	3,601	4,562	4,336	(d) 2,163	(d) 2,161
Unwrought .. ..	447	567	3,441	1,731	3,568	6,200
Scrap .. ..	895	1,384	1,131	1,331	(a) 17,957	(a) 29,658
Semi-manufactures (a)						
(excluding Foil) .. ..	6,579	8,543	16,743	28,258	34,410	41,248
of which—Powder .. ..	134	60	109	147	250	807
Foil .. ..	n.a.	n.a.	n.a.	n.a.	576	509
	(£448,458)	(£441,451)	(£438,712)	(£474,136)	(£292,993)	(£256,904)
Aluminium sulphates ..	8,877	4,318	2,934	3,072	2,484	1,755
Trinidad and Tobago—						
Semi-manufactures (a)	944	1,163	936	(c) 5,807	1,602	n.a.
Aluminium sulphates ..	298	487	997	672	876	n.a.
British Guiana—						
Semi-manufactures (a)	342	264	253	n.a.	405	128
Aluminium sulphates ..	510	337	380	n.a.	—	499
Aden—						
Semi-manufactures (a)	290	245	233	n.a.	n.a.	n.a.

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

(a) Including alloys.

(c) Excess of re-exports.

(b) Figures for years 1960 to 1963 relate to Rhodesia and Nyasaland. (d) Natural cryolite only.

## IMPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES—(cont.)</b>						
Ceylon—						
Semi-manufactures (a)	2,317	2,515	2,882	2,984	3,801	2,859
of which—Foil..	354	220	170	125	114	68
Cyprus—						
Semi-manufactures (a)	130	247	180	268	248	284
Hong Kong—						
Bauxite .. .. .	r 229	r (d) 2,391	315	300	633	437
Unwrought (a) ..	r 6,041	r 5,220	r 4,604	r 5,644	10,337	4,725
Scrap .. .. .	r 37	14	11	42	20	41
Semi-manufactures (a)	r 2,334	r 1,789	r 2,204	r 3,055	3,820	3,946
of which—Foil..	r 555	r 416	r 724	r 723	737	910
Aluminium sulphate	r 267	603	r 752	r 1,076	1,480	2,282
India (b)—						
Cryolite .. .. .	1,454	3,918	2,636	2,390	2,414	3,051
Alumina .. .. .	12,188	9,264	19,672	3,487	2,062	800
Unwrought .. ..	10,283	7,941	14,936	3,875	3,473	1,494
do. alloys .. ..	13	21	3	—	9	100
Scrap .. .. .	20	64	—	—	10	44
Semi-manufactures (a)	14,709	17,194	22,555	20,412	19,094	12,711
of which—Foil..	2,638	2,004	957	426	185	189
Powder .. .. .	77	73	149	151	144	178
Aluminium sulphate	1	1	1	4	17	120
Malaya—						
Unwrought (a) ..	9	2	171	234	296	557
Semi-manufactures (a)	3,641	3,963	5,626	7,443	4,950	6,162
of which—Foil..	391	585	1,061	996	766	917
Aluminium sulphates	6,778	8,431	6,461	7,361	3,640	3,933
Pakistan—						
Unwrought (a) ..	4,625	5,853	n.a.	r 5,064	22,363	n.a.
Semi-manufactures (a)	926	5,446	n.a.	r 2,398	3,738	n.a.
Aluminium sulphates	1,430	3,762	1,041	67	36	n.a.
Sabah—						
Semi-manufactures (a)	77	63	75	86	148	173
Sarawak—						
Semi-manufactures (a)	153	130	95	124	283	325
Aluminium sulphates	149	192	195	131	329	484
Australia—						
Bauxite .. .. .	96,200	51,799	69,904	14,113	577	n.a.
Cryolite .. .. .	1,123	1,141	3,678	5,078	3,282	2,387
Alumina and hydrate (c)	384	692	259	49,237	65,427	64,927
Unwrought (a) ..	26,432	16,141	31,389	12,115	565	432
Scrap (a) .. .. .	231	282	1,074	3,108	872	797
Semi-manufactures (a)	10,932	4,714	5,427	3,313	2,788	3,856
of which—Foil..	3,909	2,002	2,101	1,212	1,063	1,433
Powder .. .. .	678	396	250	205	297	440
New Zealand—						
Unwrought .. ..	666	2,086	5,024	(c) 5,148	(c) 6,633	(c) 8,974
Semi-manufactures (a)	5,076	4,078	2,548	(c) 2,779	(c) 2,732	(c) 2,502
of which—Foil..	573	798	344	(c) 3	(c) 758	(c) 694
Irish Republic—						
Unwrought (a) ..	3,328	3,604	4,897	5,373	8,813	7,707
Semi-manufactures (a)	2,420	2,463	3,069	3,268	3,894	3,984
of which—Foil..	460	416	483	644	677	796
Aluminium sulphates	3,487	3,524	3,588	3,276	2,011	3,539
<b>OTHER COUNTRIES</b>						
Austria—						
Bauxite .. .. .	10,390	18,176	12,951	13,072	16,590	22,534
Cryolite .. .. .	328	344	334	483	434	410
Alumina .. .. .	115,281	155,118	135,829	149,223	139,606	163,750
do. hydrate .. ..	3,779	3,862	4,393	4,565	5,603	5,954

(a) Including alloys.

(c) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated. (d) Excess of re-exports.

## IMPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Austria— <i>(cont.)</i>						
Unwrought (a) ..	274	138	804	655	2,011	1,381
Semi-manufactures (a)	1,537	1,467	1,886	2,722	4,378	6,913
Aluminium sulphates ..	1,614	1,652	1,658	1,868	1,793	1,734
Belgium-Luxemburg—						
Bauxite .. .. .	7,201	4,991	5,425	3,200	5,071	7,129
Cryolite .. .. .	216	118	134	88	141	140
Alumina .. .. .	587	1,150	1,022	881	1,010	918
do. hydrate .. ..	9,012	7,899	8,377	9,344	11,022	10,023
Unwrought .. .. .	57,265	56,511	52,470	67,242	81,764	79,287
do. alloys .. .. .	6,106	12,030	14,754	20,408	29,091	35,884
Scrap .. .. .	1,355	1,972	1,775	2,315	2,636	3,707
Semi-manufactures (a)	9,699	12,843	16,071	16,355	18,047	18,373
of which—Foil .. .	3,316	3,601	3,523	3,343	3,941	3,813
Powder .. .. .	452	332	572	266	192	415
Aluminium sulphates ..	644	1,333	544	137	133	131
Denmark—						
Bauxite .. .. .	400	600	500	500	400	2,770
Crude cryolite .. ..	33,372	32,769	32,188	49,473	37,732	38,169
Unwrought .. .. .	6,026	5,113	6,070	5,242	6,364	6,534
do. alloys .. .. .	1,259	979	481	469	758	2,634
Scrap .. .. .	421	713	377	1,215	921	1,253
Semi-manufactures (a)	8,569	8,196	9,992	11,395	14,735	13,985
of which—Foil .. .	2,076	2,149	2,209	2,122	2,616	3,457
Powder .. .. .	123	120	150	176	152	170
Aluminium sulphates ..	5,034	4,118	4,721	4,773	4,813	5,753
Finland—						
Alumina .. .. .	1,577	74	86	36	89	56
do. hydrate .. .. .		7,699	10,232	8,433	11,368	13,499
Unwrought (a) .. ..	3,953	5,496	6,706	3,995	6,238	8,113
Semi-manufactures (a)	12,827	10,965	11,276	10,821	13,141	12,189
of which—Foil .. .	416	750	558	588	848	1,310
Powder .. .. .	458	310	146	103	422	273
Aluminium sulphates ..	30,270	14,995	12,973	11,239	9,912	9,809
France—						
Bauxite .. .. .	59,687	118,821	100,230	140,248	143,542	114,669
Cryolite .. .. .	1,934	2,178	1,402	1,320	1,703	1,358
Alumina .. .. .	43,726	133,818	191,842	124,720	65,979	19,332
do. hydrate .. .. .	28	33	81	71	30	57
Unwrought .. .. .	53,287	41,834	49,820	51,915	65,746	64,514
do. alloys .. .. .	n.a.	177	932	3,074	5,548	6,048
Scrap (a) .. .. .	179	513	1,307	2,260	2,643	1,071
Semi-manufactures (a)	3,155	4,051	7,641	12,215	15,997	20,550
of which—Foil .. .	1,653	2,028	3,780	5,336	6,493	7,187
Powder .. .. .	60	61	160	207	854	605
Aluminium sulphates ..	—	3	2	20	40	2
Germany (Federal)—						
Bauxite .. .. .	1,322,085	1,538,597	1,369,442	1,484,200	1,596,607	1,610,277
Cryolite .. .. .	2,155	2,265	3,315	2,935	3,187	3,519
Alumina .. .. .	340	27,303	34,071	48,880	52,717	56,816
do. hydrate .. .. .	662	1,179	942	1,389	1,480	805
Unwrought .. .. .	163,191	124,725	105,058	104,211	134,041	136,663
do. alloys .. .. .	14,959	11,800	11,068	14,554	28,623	30,178
Scrap .. .. .	38,854	45,188	41,274	43,240	55,918	57,736
Semi-manufactures (a)	8,307	11,614	12,423	18,150	28,387	32,152
of which—Foil .. .	438	732	1,918	3,049	2,785	3,666
Powder .. .. .	202	307	341	269	437	540
Germany (East)—						
Bauxite .. .. .	264,150	258,707	281,425	322,072	322,002	246,156
Alumina .. .. .	25,508	22,795	16,732	18,023	41,522	45,454
Greece—						
Unwrought .. .. .	4,335	5,380	5,868	5,639	8,422	8,445
Semi-manufactures (a)	679	644	978	1,099	1,291	2,437
of which—Foil .. .	530	509	736	905	896	426

(a) Including alloys.



## IMPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES (cont.)						
Greece—(cont.)						
Aluminium sulphates ..	229	504	249	79	1	249
Hungary—						
Cryolite .. ..	2,426	2,948	3,156	519	1,727	n.a.
Unwrought .. ..	492	—	568	2,418	7,522	—
Iceland—						
Semi-manufactures ..	352	279	459	364	310	288
Italy—						
Bauxite .. ..	275,678	257,809	289,082	344,083	372,805	469,079
Cryolite .. ..	364	541	455	1,063	895	601
Alumina .. ..	389	681	4,444	8,643	4,498	1,978
do. hydrate .. ..	343	405	447	377	364	708
Unwrought .. ..	29,384	21,382	43,326	53,257	32,174	33,159
do. alloys .. ..	4,143	3,919				
Scrap .. ..	36,361	29,470	46,698	52,152	31,811	27,364
Semi-manufactures (a)	6,159	6,564	10,256	16,000	17,162	15,640
of which—Foil ..	2,893	2,856	3,098	4,577	3,640	3,193
Powder .. ..	119	128	131	157	205	168
Aluminium sulphates ..	511	154	963	783	178	1,360
Netherlands—						
Bauxite .. ..	3,493	4,839	1,674	10,204	4,262	21,347
Cryolite .. ..	211	206	268	380	207	141
Alumina .. ..	875	745	806	784	834	1,204
do. hydrate .. ..	6,366	6,849	7,035	6,902	8,077	9,224
Unwrought (a) .. ..	14,449	13,518	14,526	19,501	22,020	19,855
Scrap (a) .. ..	2,265	2,795	2,044	2,146	2,925	3,086
Semi-manufactures (a)	17,632	17,545	17,475	17,218	29,262	28,906
of which—Foil ..	3,513	3,865	4,019	4,093	4,818	5,425
Powder .. ..	122	179	127	98	126	160
Aluminium sulphates ..	9,691	9,113	8,664	10,684	11,438	12,433
Norway—						
Bauxite .. ..	28,115	29,502	37,797	24,480	29,560	28,792
Cryolite .. ..	4,041	2,763	1,862	3,239	2,613	4,226
Alumina .. ..	322,889	297,377	405,297	437,524	515,664	531,793
Unwrought .. ..	354	1,952	782	1,236	10,829	9,036
do. alloys .. ..	187	418	572	221	822	676
Scrap .. ..	635	402	507	r 170	56	31
Semi-manufactures (a)	6,138	6,238	7,760	r 8,714	9,952	6,926
of which—Foil ..	232	254	443	407	495	535
Powder .. ..	225	185	229	r 180	174	208
Aluminium sulphates ..	10,519	12,103	10,868	11,633	9,989	4,328
Poland—						
Bauxite .. ..	34,900	59,200	(b) 41,000	59,200	85,700	n.a.
Alumina .. ..	53,037	86,000	107,000	87,500	91,800	84,700
Unwrought .. ..	13,633	5,873	n.a.	n.a.	n.a.	n.a.
Portugal—						
Cryolite .. ..	27	17	22	39	30	45
Unwrought (a) .. ..	577	1,877	1,433	1,062	733	1,157
Semi-manufactures (a)	3,914	3,685	3,638	4,880	6,293	7,195
of which—Powder ..	96	88	74	76	78	79
Aluminium sulphates ..	3,046	2,880	2,752	2,771	4,177	3,704
Spain—						
Bauxite .. ..	23,203	39,587	46,088	64,668	52,285	83,890
Alumina and hydrate ..	62,132	82,635	89,678	90,532	99,541	113,690
Unwrought and scrap ..	1,718	4,198	8,307	10,483	9,989	16,798
Semi-manufactures (a)	409	1,116	1,849	3,620	6,421	7,907
of which—Powder ..	6	14	21	24	27	53
Sweden—						
Bauxite .. ..	5,476	25,281	23,850	13,572	30,856	22,625
Cryolite .. ..	673	758	924	493	1,190	1,159
Alumina and hydrate ..	33,171	24,028	39,875	38,497	67,204	69,833
Unwrought .. ..	21,846	19,754	25,580	29,659	17,324	17,559
do. alloys .. ..	5,824	3,889	4,752	6,620	7,550	9,262

(a) Including alloys.

(b) Exports to Poland from Hungary.

## IMPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b> (cont.)						
Sweden (cont.)—						
Scrap .. .. .	85	176	309	318	112	28
Semi-manufactures (a)	15,245	13,127	13,893	14,632	19,831	18,727
of which—Foil ..	2,598	2,237	2,105	2,059	2,929	3,008
Powder ..	594	382	342	268	240	381
Aluminium sulphates ..	2,816	4,339	5,315	4,571	10,370	4,817
Switzerland—						
Bauxite .. .. .	951	2,677	1,348	1,440	2,553	2,871
Cryolite .. .. .	1,012	1,043	1,217	825	226	155
Alumina .. .. .	85,888	91,066	105,424	122,805	118,767	134,225
Unwrought and scrap (a)	16,142	10,336	10,937	4,489	5,871	12,055
Semi-manufactures (a)	4,955	6,946	7,622	8,708	8,029	6,769
Aluminium sulphates ..	3,927	4,152	4,166	3,862	3,926	4,126
U. S. S. R.—						
Bauxite (b) .. .. .	422,000	447,800	303,400	434,300	442,200	473,400
Semi-manufactures ..	4,133	4,133	3,740	6,299	5,512	7,200
Yugoslavia—						
Bauxite .. .. .	973	1,891	2,681	3,029	5,442	3,368
Cryolite .. .. .	420	344	749	30	358	n.a.
Alumina and hydrate ..	4	8	349	582	2,638	61
Unwrought .. .. .	15,536	10,082	10,522	6,629	15,612	19,476
Semi-manufactures (a)	326	563	581	1,036	1,103	1,161
of which—Foil ..	113	181	369	778	393	253
Algeria—						
Bauxite .. .. .	2,165	n.a.	n.a.	n.a.	n.a.	n.a.
Unwrought (a) .. .. .	520	n.a.	n.a.	n.a.	n.a.	n.a.
Semi-manufactures (a)	2,464	n.a.	n.a.	n.a.	n.a.	n.a.
of which—Foil ..	1,366	n.a.	n.a.	n.a.	n.a.	n.a.
Powder ..	120	n.a.	n.a.	n.a.	n.a.	n.a.
Aluminium sulphates ..	887	n.a.	n.a.	n.a.	n.a.	n.a.
Angola—						
Semi-manufactures ..	43	398	323	430	643	856
Aluminium sulphates ..	121	924	403	381	1,032	1,207
Cameroun—						
Alumina .. .. .	73,618	102,753	83,344	123,021	92,550	83,637
Egypt—						
Unwrought and scrap ..	439	1,216	2,106	3,849	4,717	4,881
Semi-manufactures ..	2,121	1,522	1,339	966	884	593
of which—Foil ..	726	467	602	681	415	593
Aluminium sulphates ..	n.a.	n.a.	21,591	n.a.	n.a.	n.a.
Malagasy Republic—						
Aluminium sulphates	182	198	255	320	281	n.a.
Morocco—						
Bauxite .. .. .	2,436	—	3,185	2,513	907	2,462
Alumina and hydrate ..	1	70	50	120	n.a.	119
Semi-manufactures (a)	1,853	1,634	1,691	1,749	1,864	1,584
of which—Foil ..	440	312	280	456	320	243
Powder ..	67	55	57	75	51	60
Aluminium sulphates ..	1,932	1,617	1,772	1,443	1,346	1,412
Mozambique—						
Semi-manufactures (a)	134	201	209	255	275	384
South Africa—						
Bauxite .. .. .	n.a.	n.a.	n.a.	n.a.	8,504	n.a.
Cryolite .. .. .	n.a.	n.a.	n.a.	n.a.	71	n.a.
Alumina and hydrate ..	n.a.	n.a.	n.a.	n.a.	284	n.a.
Unwrought .. .. .	11,104	10,199	13,802	16,487	16,659	n.a.
Semi-manufactures (a)	2,649	1,762	2,670	4,607	7,823	n.a.
of which—Foil ..	490	520	506	572	640	n.a.
Powder ..	81	59	51	45	150	n.a.
Aluminium sulphates ..	3,163	3,618	2,990	3,535	n.a.	n.a.

(a) Including alloys.

(b) Imports from Greece.

## IMPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Sudan—						
Semi-manufactures (a)	483	185	460	653	888	862
Aluminium sulphates ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	970	1,134	507
Tunisia—						
Unwrought and scrap (a)	133	105	3	1	—	22
Semi-manufactures ..	75	118	231	374	394	506
Costa Rica—						
Semi-manufactures (a)	298	332	395	510	670	764
Honduras—						
Semi-manufactures ..	<i>n.a.</i>	89	107	150	230	221
Mexico—						
Bauxite, calcined ..	5,892	8,808	7,247	5,860	4,801	<i>n.a.</i>
Alumina and hydrate ..	6,274	3,609	3,820	23,384	36,761	<i>n.a.</i>
Unwrought ..	11,026	10,152	15,663	8,928	50	<i>n.a.</i>
Semi-manufactures ..	601	574	1,999	14,414	6,883	<i>n.a.</i>
Aluminium sulphates ..	695	706	579	1,077	831	<i>n.a.</i>
Nicaragua—						
Semi-manufactures ..	149	167	250	271	282	617
Salvador—						
Semi-manufactures (a)	<i>n.a.</i>	273	224	51	356	426
United States—						
Bauxite, crude dried ..	8,739,000	9,206,000	10,575,000	9,170,000	11,291,644	12,701,568
do. calcined ..	118,653	70,360	120,150	87,951	188,970	215,989
Cryolite ..	15,598	12,334	11,136	24,031	21,664	21,438
Alumina and hydrate ..	79,048	168,948	157,670	170,128	227,961	202,303
Unwrought (a) ..	138,131	177,879	277,638	371,132	350,788	468,542
Scrap ..	4,502	5,359	5,800	8,309	7,279	24,133
Semi-manufactures ..	37,060	48,448	57,364	41,125	51,431	61,685
of which—Foil (b) ..	4,312	4,421	4,518	4,301	4,619	<i>n.a.</i>
Aluminium sulphates ..	4,855	4,396	5,077	3,698	<i>n.a.</i>	7,362
Argentina—						
Bauxite ..	29,492	39,530	26,051	4,225	30,781	28,954
Ingots and bars ..	11,887	28,776	15,252	14,798	33,107	35,814
Brazil—						
Cryolite ..	1,053	1,018	590	555	962	988
Alumina ..	51	30	4,404	562	39	1,018
do. hydrate ..	862	714	808	497	460	391
Unwrought (a) ..	14,580	18,052	19,199	25,408	18,256	21,499
Semi-manufactures (a)	259	237	278	549	250	387
of which—Foil ..	25	29	76	92	98	114
Powder ..	42	24	27	32	16	77
Aluminium sulphates ..	—	50	2	1	—	1
Chile—						
Unwrought ..	1,762	1,386	1,253	3,043	<i>n.a.</i>	<i>n.a.</i>
Bars, sheets and alloys ..	166	290	435	277	<i>n.a.</i>	<i>n.a.</i>
Aluminium sulphates ..	8	—	—	1	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Bauxite ..	4,635	4,453	5,986	7,087	4,413	9,024
Alumina and hydrates	681	423	271	99	92	155
Unwrought (a) ..	2,965	3,318	5,575	2,371	6,163	3,828
Semi-manufactures (a)	1,543	1,214	1,109	918	1,182	621
Aluminium sulphates ..	170	514	1,214	310	1,368	1,069
Ecuador—						
Semi-manufactures ..	<i>n.a.</i>	<i>n.a.</i>	249	525	517	<i>n.a.</i>
Aluminium sulphates ..	<i>n.a.</i>	371	1,185	827	1,041	<i>n.a.</i>
Peru—						
Unwrought (a) ..	462	557	563	627	865	<i>n.a.</i>
Semi-manufactures (a)	1,373	2,021	1,664	1,841	2,394	<i>n.a.</i>
Aluminium sulphates ..	3,297	3,743	3,218	3,104	275	<i>n.a.</i>

(a) Including alloys.

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

## IMPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965	
<b>OTHER COUNTRIES</b>							
<i>(cont.)</i>							
Uruguay—							
Unwrought .. ..	2,065	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	
Aluminium sulphates ..	3,258	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	
Venezuela—							
Unwrought .. ..	730	726	1,019	855	1,970	2,921	
Semi-manufactures ..	7,813	9,885	7,586	6,768	6,136	4,685	
Aluminium sulphates ..	4,041	10,202	7,134	7,096	8,683	11,449	
Alumina and hydrate ..	111	153	186	231	268	323	
Burma—							
Unwrought .. ..	241	377	456	376	3,284	3,609	
Semi-manufactures (a)	1,321	2,278	2,611	2,719			
Formosa—							
Bauxite .. ..	24,416	56,273	56,282	52,176	88,446	103,087	
Foil .. ..	7	9	7	13	27	159	
Indonesia—							
Semi-manufactures (a)	2,734	5,908	4,150	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	
Aluminium sulphates ..	8,065	8,686	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	
Iran (b)—							
Unwrought (a) .. ..	1,531	1,823	2,088	2,271	4,066	2,986	
Semi-manufactures ..	948	997	1,484	1,104	1,767	1,381	
Iraq—							
Unwrought (a) .. ..	534	491	583	207	—	<i>n.a.</i>	
Semi-manufactures (a)	1,751	1,646	1,187	1,858	2,768	<i>n.a.</i>	
Aluminium sulphates ..	3,168	2,837	4,817	3,543	4,314	<i>n.a.</i>	
Israel—							
Unwrought and semi-							
manufactures .. ..	3,343	5,655	6,717	5,689	8,089	7,544	
of which—Foil .. ..	17	22	50	50	54	122	
Aluminium sulphates ..	3	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	
Japan—							
Bauxite .. ..	1,077,343	1,138,283	1,081,336	1,398,974	1,596,316	1,648,943	
Cryolite .. ..	3,076	5,202	3,736	6,310	7,428	6,234	
Unwrought .. ..	22,604	31,877	17,128	16,434	18,239	23,268	
do. alloys .. ..	193	191	361	6,438	15,612	18,741	
Scrap .. ..	13,424	16,840	11,371	11,786	9,160	4,169	
do. alloys .. ..	5,011	14,508	5,572	6,448	15,673	5,059	
Semi-manufactures (a)	320	587	626	824	1,788	925	
Jordan—							
Semi-manufactures ..	233	203	261	295	156	<i>n.a.</i>	
of which—Foil .. ..	53	35	61	68	87	<i>n.a.</i>	
Korea (South)—							
Unwrought and semi-							
manufactures .. ..	3,416	3,416	11,618	7,532	3,228	7,282	
Aluminium sulphate ..	482	233	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	
Lebanon—							
Unwrought .. ..	385	850	818	2,029	2,337	<i>n.a.</i>	
Semi-manufactures ..	572	588	759	508	636	<i>n.a.</i>	
Philippine Republic—							
Unwrought .. ..	5,611	1,892	1,856	4,685	4,386	<i>n.a.</i>	
Semi-manufactures (a)		1,307	704	688	937	<i>n.a.</i>	
of which—Foil .. ..		498	157	292	315	269	<i>n.a.</i>
Aluminium sulphates ..		3,192	<i>n.a.</i>	<i>n.a.</i>	8,713	3,196	<i>n.a.</i>
Syria—							
Unwrought .. ..	<i>n.a.</i>	121	<i>n.a.</i>	398	287	428	
Thailand—							
Unwrought (a) .. ..	327	562	1,170	1,625	2,953	1,802	
Semi-manufactures (a)	2,725	2,736	2,987	3,127	2,311	3,216	
of which—Foil .. ..	502	421	666	567	740	998	
Aluminium sulphates ..	1,118	1,080	685	550	351	702	

(a) Including alloys.

(b) Years ending March 20 following that stated.

## IMPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES (cont.)						
Turkey—						
Unwrought (a) . . .	254	489	1,260	1,197	1,554	5,551
Semi-manufactures (a) . . .	1,417	2,483	2,865	2,600	1,616	1,720
of which—Foil . . .	818	752	1,193	1,113	471	873
Aluminium sulphates . . .	2,197	2,330	3,207	4,930	3,152	4,687

(a) Including alloys.

**ANTIMONY**  
**PRODUCTION OF ANTIMONY ORE**  
*(Metal content)*

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Rhodesia	75	51	46	49	36	<i>n.a.</i>
Canada (a) .. ..	—	—	—	—	—	—
Pakistan .. .. .	62	13	<i>r</i> 67	8	81	60
Sarawak .. .. .	—	—	—	—	70	50
Australia (b) .. ..	154	117	66	74	273	34
<b>OTHER COUNTRIES</b>						
Austria .. .. .	915	871	983	853	879	681
Czechoslovakia (h) ..	1,600	1,600	<i>r</i> 2,000	<i>r</i> 2,000	2,000	2,000
France .. .. .	—	—	—	98	165	<i>n.a.</i>
Italy .. .. .	213	246	<i>r</i> 333	237	529	261
Portugal .. .. .	—	—	—	6	12	10
Spain .. .. .	217	170	157	58	53	904
U.S.S.R. (h) .. .. .	6,000	6,000	6,000	7,000	7,000	7,000
Yugoslavia (c) .. ..	2,372	2,424	2,648	2,619	2,686	2,724
Algeria .. .. .	791	643	133	—	—	65
Morocco .. .. .	500	364	401	664	1,535	2,165
South Africa .. .. .	12,106	10,539	10,425	10,983	12,679	12,312
Guatemala .. .. .	(e) 106	30	39	(e) 28	—	—
Mexico .. .. .	4,164	3,552	4,694	4,750	4,712	4,396
United States (d) .. ..	567	615	563	576	564	754
Bolivia (g) .. .. .	5,243	6,634	7,078	7,443	9,488	8,627
Peru (i) .. .. .	804	777	513	<i>r</i> 601	671	521
Burma .. .. .	94	66	29	—	<i>n.a.</i>	<i>n.a.</i>
China (f) .. .. .	15,000	15,000	15,000	15,000	15,000	15,000
Japan .. .. .	266	192	169	189	495	192
Thailand .. .. .	—	22	17	604	1,249	(f) 1,250
Turkey .. .. .	1,357	1,220	1,530	1,614	1,720	<i>n.a.</i>
<b>TOTAL*</b> .. .. .	<b>52,000</b>	<b>51,000</b>	<i>r</i> <b>53,000</b>	<b>55,000</b>	<b>62,000</b>	<b>61,000</b>

\*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): 1960—737; 1961—594; 1962—862; 1963—715; 1964—711; 1965—550.

(b) In addition the antimony content of antimonial slag obtained as a by-product of lead refining was as follows (long tons): 1960—632; 1961—563; 1962—808; 1963—933; 1964—843; 1965—909.

(c) Metal.

(d) Secondary metal was recovered as follows (long tons): 1960—17,950; 1961—17,380; 1962—17,287; 1963—18,574; 1964—19,946; 1965—21,715.

(e) Imports into the United States.

(f) United States Bureau of Mines' estimate.

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

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

(i) Metal plus content of ore.

## EXPORTS OF ANTIMONY

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—						
Regulus and refined ..	1,600	1,171	827	1,454	1,079	1,241
Rhodesia (c)—						
Ore .. .. .	272	222	179	213	162	207
Canada—						
Antimonial lead (Sb content) ..	501	534	706	n.a.	n.a.	n.a.
Australia (a)—						
Regulus .. .. .	12	—	—	—	—	—
Sarawak—						
Ore .. .. .	—	—	—	—	—	106
OTHER COUNTRIES						
Austria—						
Ore .. .. .	1,029	1,780	1,118	806	820	730
Sulphide .. .. .	288	110	244	317	312	199
Belgium-Luxemburg						
E.U.—						
Oxide .. .. .	687	966	1,251	1,137	1,765	1,609
France—						
Ore .. .. .	5	—	—	98	50	—
Crude and regulus ..	280	135	53	262	54	56
Germany (Federal)—						
Ore .. .. .	53	—	—	—	—	1
Regulus, scrap, etc. ..	400	402	1,014	769	226	172
Oxide .. .. .	289	91	136	87	438	n.a.
Italy—						
Regulus and scrap ..	1	—	2	—	1	1
Netherlands—						
Regulus (b) .. .. .	54	34	69	57	55	30
Oxide .. .. .	43	31	48	19	130	122
Sweden—						
Regulus .. .. .	22	7	10	39	34	12
U.S.S.R.—						
Regulus .. .. .	2,500	3,400	3,800	3,200	4,200	2,700
Yugoslavia—						
Regulus .. .. .	1,970	2,039	2,245	2,324	1,921	2,261
Algeria—						
Ore .. .. .	3,552	2,360	559	—	—	n.a.
Morocco—						
Ore .. .. .	546	1,129	998	1,327	1,838	2,979
South Africa—						
Ore .. .. .	20,451	16,292	18,059	19,485	21,722	18,711
Mexico—						
Ore and concentrates ..	9,098	9,343	11,226	11,720	11,871	} 11,170
Regulus and refined ..	538	128	270	316	290	
United States—						
Ore .. .. .	756	6	8	129	346	n.a.
Metal and alloys ..	53	30	31	14	375	13
Bolivia—						
Ore (Sb content) ..	5,238	6,602	7,035	7,443	9,488	8,621
Regulus .. .. .	5	32	43	—	—	6
Peru—						
Ore and metal (Sb content) ..	948	901	864	840	978	n.a.
Burma—						
Ore .. .. .	—	151	71	21	—	—
Japan—						
Regulus .. .. .	—	3	n.a.	n.a.	n.a.	n.a.
Sulphide .. .. .	6	14	n.a.	n.a.	n.a.	n.a.
Thailand—						
Ore .. .. .	—	52	72	852	1,447	1,964
Turkey—						
Ore .. .. .	2,241	2,475	2,707	3,722	2,587	3,380

(a) Years ended June 30 of that stated.

(b) Including scrap.

(c) Figures for years 1960 to 1963 relate to Rhodesia and Nyasaland.



## IMPORTS OF ANTIMONY, ETC.

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore and concentrates (b)	15,623	11,733	12,085	11,995	13,989	n.a.
Zambia (e)—						
Refined and regulus ..	50	183	60	110	61	12
Canada—						
Regulus .. ..	377	372	570	463	n.a.	n.a.
Oxide .. ..	195	160	280	290	317	275
India—						
Ore .. ..	1,195	1,042	1,376	1,690	1,323	1,675
Metal .. ..	23	1	—	15	59	34
Oxide (d) .. ..	90	96	54	39	41	92
Sulphide (d) .. ..	4	1	2	2	4	37
Australia (c)—						
Concentrates .. ..	105	271	34	44	43	21
Regulus .. ..	n.a.	238	156	393	829	251
New Zealand—						
Refined and regulus ..	82	152	n.a.	n.a.	n.a.	n.a.
Oxide .. ..	14	21	n.a.	(c) 67	(c) 97	n.a.
OTHER COUNTRIES						
Austria—						
Regulus .. ..	206	151	128	263	162	94
Belgium-Luxemburg						
E.U.—						
Regulus (a) .. ..	272	202	353	38	162	111
Oxide .. ..	176	138	143	213	287	88
Denmark—						
Regulus .. ..	228	313	379	313	106	106
France—						
Ore .. ..	6,120	4,303	2,957	853	2,648	1,651
Crude and regulus (a) ..	465	896	2,141	2,743	2,623	1,700
Sulphide .. ..	2	—	12	6	7	7
Germany (Federal)—						
Ore .. ..	2,027	2,175	1,623	2,131	2,619	2,749
Regulus, scrap, etc. ..	4,262	3,535	3,545	4,707	3,298	2,707
Oxide .. ..	211	211	246	402	815	n.a.
Greece—						
Regulus .. ..	124	39	53	53	18	56
Italy—						
Ore .. ..	965	1,002	n.a.	n.a.	n.a.	15
Regulus and scrap .. ..	497	376	387	620	334	430
Oxide .. ..	345	248	—	283	225	256
Sulphide .. ..	11	n.a.	n.a.	n.a.	n.a.	n.a.
Netherlands—						
Regulus (a) .. ..	417	437	336	380	289	230
Oxide .. ..	777	501	564	560	590	583
Norway—						
Regulus .. ..	64	109	115	90	93	100
Poland—						
Regulus .. ..	1,280	2,414	n.a.	n.a.	n.a.	n.a.
Portugal—						
Sulphide .. ..	2	1	n.a.	—	1	—
Sweden—						
Regulus .. ..	373	340	386	439	419	270

(a) Including scrap.

(b) Including crude.

(c) Years ended June 30 of that stated.

(d) Years ended March 31 following that stated.

(e) Figures for years 1960 to 1963 relate to Rhodesia and Nyasaland.

## IMPORTS OF ANTIMONY, ETC. (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Switzerland—						
Regulus .. ..	<i>n.a.</i>	<i>n.a.</i>	537	311	349	205
Algeria—						
Regulus .. ..	12	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Morocco—						
Regulus .. ..	25	22	30	19	10	12
South Africa—						
Refined and regulus ..	113	156	262	314	<i>n.a.</i>	<i>n.a.</i>
Mexico—						
Oxide .. ..	25	24	21	20	18	<i>n.a.</i>
United States—						
Ore ( <i>Sb content</i> ) .. ..	5,764	5,994	7,681	8,736	9,532	9,250
Crude .. ..	21	11	15	20	28	21
Regulus .. ..	4,885	4,386	4,214	5,086	2,953	2,366
Oxide .. ..	2,114	1,786	2,598	1,865	2,795	1,940
Argentina—						
Ore .. ..	296	611	553	370	497	1,058
Brazil—						
Ore .. ..	<i>n.a.</i>	<i>n.a.</i>	53	79	64	269
Regulus .. ..	45	108	631	580	157	71
Oxide .. ..	42	33	62	36	14	34
Sulphide .. ..	186	101	93	139	108	37
Chile—						
Regulus .. ..	99	38	8	52	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Metal .. ..	<i>n.a.</i>	26	40	66	11	15
Peru—						
Sulphides .. ..	1	—	1	—	—	<i>n.a.</i>
Uruguay—						
Regulus .. ..	21	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Venezuela—						
Regulus .. ..	16	8	6	17	13	21
Indonesia—						
Regulus .. ..	77	164	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Israel—						
Regulus .. ..	35	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Ore and concentrates ..	5,283	6,369	4,947	6,098	6,398	4,473
Regulus .. ..	9	—	—	158	911	124
Sulphide .. ..	—	91	149	270	98	49

**ARSENIC**  
**PRODUCTION OF ARSENIC**

Long tons

Producing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Rhodesia—						
White arsenic .. ..	182	—	1,078	540	184	<i>n.a.</i>
Canada—						
White arsenic (a) ..	770	187	72	84	145	134
<b>OTHER COUNTRIES</b>						
France—						
White arsenic .. ..	8,400	9,300	6,676	11,900	11,217	11,944
Germany (Federal) (b)—						
White arsenic, etc. ..	98	137	67	55	37	69
Greece—						
White arsenic .. .. (c)	10	(c) 3	—	—	—	—
Italy—						
Mispickel ( <i>As content</i> ) ..	515	583	265	—	—	—
White arsenic .. ..	584	874	125	—	—	—
Portugal—						
White arsenic	723	295	566	555	366	<i>n.a.</i>
Spain—						
White arsenic	388	306	209	143	140	116
Sweden—						
White arsenic .. ..	11,564	10,851	5,662	14,615	17,686	16,264
Mexico—						
Ores ( <i>As<sub>2</sub>O<sub>3</sub> content</i> ) ..	11,939	12,087	10,731	9,336	10,992	9,968
Brazil—						
White arsenic .. ..	208	57	147	288	185	252
Peru—						
White arsenic .. ..	387	346	511	610	612	491
Japan—						
White arsenic .. ..	1,113	935	903	807	491	(c) 500

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

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

(b) Exports.

(c) United States Bureau of Mines' estimate.

EXPORTS OF ARSENIC, ETC.

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom—						
Arsenical compounds: inorganic .. ..	5,996	6,774	8,166	(a)	(a)	7,849
	£410,574	£444,901	£539,894	£440,827	£461,045	£519,544
organic .. ..	£119,161	£146,394	£113,763	£59,739	£68,143	£52,210
Canada—						
White arsenic, etc. (b)	471	109	—	2	n.a.	n.a.
Malaya—						
Arsenite of soda ..	170	117	118	58	42	164
<b>OTHER COUNTRIES</b>						
Belgium-Luxemburg						
E.U.—						
Arsenates and arsenites	225	312	313	291	121	127
France—						
White arsenic .. ..	7,778	10,799	9,690	9,411	9,316	10,211
Arsenates .. ..	131	161	117	98	48	38
Germany (Federal)—						
White arsenic, etc. ..	98	137	67	55	37	69
Arsenates .. ..	386	182	194	102	57	59
Italy—						
White arsenic .. ..	50	2	20	15	—	41
Arsenates and arsenites	17	12	3	25	104	11
Netherlands—						
White arsenic .. ..	—	—	21	13	38	40
Arsenates and arsenites	18	9	21	32	27	3
Poland—						
Metallic arsenic ..	51	38	n.a.	n.a.	n.a.	n.a.
Portugal—						
White arsenic .. ..	34	77	1,075	702	491	349
Sweden—						
White arsenic .. ..	13,494	10,229	7,719	13,000	13,577	11,692
Metallic arsenic ..	244	182	226	298	344	432
Mexico—						
White arsenic, pure ..	6,454	6,072	6,376	8,515	11,023	} 9,877
do. crude	2,955	7,060	1,962	125	86	
United States—						
Arsenate of lead ..	843	415	635	358	836	n.a.
Arsenate of lime ..	129	299	421	83	686	n.a.
Japan—						
White arsenic .. ..	16	12	15	2	22	9

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

(b) Including arsenic contained in gold ores exported.

IMPORTS OF ARSENIC, ETC.

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom—						
White arsenic .. ..	9,815	8,587	6,570	8,806	9,619	10,914
Arsenates and arsenites	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	(£1,062)	(£571)	(£3,314)
Canada—						
Arsenate of lead .. ..	29	26	19	28	<i>n.a.</i>	<i>n.a.</i>
Arsenate of lime .. ..	30	80	84	59	<i>n.a.</i>	<i>n.a.</i>
India (b)—						
Arsenic and its oxides ..	406	602	384	239	524	529
Malaya—						
Arsenite of soda .. ..	10,579	8,587	10,002	6,987	5,727	8,316
Pakistan—						
Arsenic and its oxides ..	60	44	32	24	10	<i>n.a.</i>
Australia (a)—						
White arsenic .. ..	2,618	2,183	1,695	1,906	1,800	1,729
New Zealand—						
White arsenic, etc. .. ..	71	9	141	(a) 187	(a) 160	<i>n.a.</i>
Arsenate of lead .. ..	9	11	31	(a) 61	(a) 40	<i>n.a.</i>
<b>OTHER COUNTRIES</b>						
Austria—						
White arsenic, etc. .. ..	30	32	32	33	49	40
Belgium-Luxemburg						
E.U.—						
White arsenic .. ..	73	3	5	12	72	44
Denmark—						
White arsenic .. ..	28	29	15	30	21	15
Arsenates and arsenites	2	50	99	115	158	50
France—						
Sulphide .. ..	4	8	—	—	—	—
Metallic arsenic .. ..	9	21	15	17	33	33
White arsenic .. ..	30	30	79	62	79	108
Germany (Federal)—						
Metallic arsenic .. ..	<i>n.a.</i>	23	27	28	34	<i>n.a.</i>
White arsenic, etc. .. ..	4,248	2,789	2,194	1,796	950	1,288
Sulphide .. ..	9	8	1	—	1	—
Italy—						
White arsenic .. ..	418	449	1,134	1,600	1,580	1,836
Metallic arsenic (c) .. ..	8	16	10	19	21	16
Arsenates and arsenites	23	3	47	27	4	5
Netherlands—						
White arsenic .. ..	529	638	608	944	840	887
Arsenates and arsenites	85	32	15	26	55	43
Norway—						
White arsenic .. ..	63	51	47	63	88	67
Portugal—						
Metallic arsenic .. ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	—	—
White arsenic .. ..	9	8	5	1	—	—
Arsenate of soda .. ..	—	—	<i>n.a.</i>	1	1	1
Switzerland—						
White arsenic, etc. .. ..	149	245	99	90	97	78
Yugoslavia—						
Metallic arsenic .. ..	5	3	—	—	—	8
Algeria—						
White arsenic .. ..	11	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sulphide .. ..	2	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Arsenates .. ..	17	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Malagasy Republic—						
Arsenates .. ..	12	16	9	9	15	<i>n.a.</i>

(a) Years ended June 30 of that stated.  
(c) May include some tellurium.

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

## IMPORTS OF ARSENIC, ETC. (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Tunisia—						
Arsenates and arsenites	—	1	2	—	1	3
Mexico—						
White arsenic .. ..	6	100	1	—	17	<i>n.a.</i>
United States—						
Metallic arsenic .. ..	65	59	102	151	137	161
White arsenic .. ..	11,450	17,396	14,069	12,999	16,237	13,862
Sulphide .. ..	14	25	30	31	25	41
Arsenates of lime and soda .. ..	96	(a) 94	(a) 114	(a) 122	(a) 143	(a) 138
Argentina—						
White arsenic .. ..	423	720	780	397	522	329
Brazil—						
Metallic arsenic .. ..	—	—	3	5	15	21
White arsenic .. ..	846	675	784	743	297	112
Arsenates .. ..	30	28	—	7	2	—
Chile—						
White arsenic .. ..	19	64	52	119	<i>n.a.</i>	<i>n.a.</i>
Arsenates .. ..	71	—	<i>n.a.</i>	23	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
White arsenic .. ..	104	34	70	126	39	18
Uruguay—						
White arsenic .. ..	296	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Arsenate of lead .. ..	66	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Formosa—						
White arsenic .. ..	87	88	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Japan—						
White arsenic .. ..	1,124	2,445	1,500	2,633	2,169	2,526
Sulphide .. ..	25	23	34	35	47	41
Turkey—						
Arsenic compounds .. ..	50	74	15	10	—	17

(a) Arsenate of soda only.

**ASBESTOS**  
**PRODUCTION OF ASBESTOS**

Long tons

Producing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Bechuanaland Protectorate .. ..	1,145	1,718	2,156	2,114	1,929	793
Kenya—						
Anthophyllite .. ..	104	135	189	70	182	121
Rhodesia .. ..	119,611	144,295	126,961	127,014	137,010	(b) 164,762
Swaziland .. ..	28,595	27,493	29,312	29,778	35,591	36,503
Canada (a)—						
Chrysotile .. ..	998,621	1,047,942	1,085,548	1,138,866	1,267,724	1,232,330
Crude .. ..	295	146	183	194	n.a.	n.a.
Fibre .. ..	431,413	489,491	488,792	517,040	n.a.	n.a.
Shorts and Waste .. ..	566,913	558,305	596,573	621,632	n.a.	n.a.
Cyprus .. ..	20,818	14,471	19,992	17,823	12,281	15,733
India .. ..	1,684	r 1,450	1,665	2,712	3,313	4,455
Australia—						
Chrysotile .. ..	1,019	865	826	847	1,577	1,030
Crocidolite .. ..	12,921	14,087	15,617	11,262	10,614	9,457
New Zealand .. ..	284	333	408	392	—	—
<b>Total .. ..</b>	<b>1,185,000</b>	<b>1,253,000</b>	<b>1,283,000</b>	<b>1,331,000</b>	<b>1,470,000</b>	<b>1,465,000</b>
<b>OTHER COUNTRIES</b>						
Austria .. ..	59	504	449	570	—	—
Bulgaria .. ..	1,100	1,100	(c) 1,000	(c) 1,000	(c) 1,000	(c) 1,000
Finland .. ..	9,405	9,231	9,704	9,025	10,367	(e) 11,881
France .. ..	25,178	27,451	25,029	23,298	21,687	7,000
Greece .. ..	—	—	—	66	n.a.	n.a.
Italy .. ..	50,313	55,760	54,339	56,264	67,475	70,728
Portugal .. ..	129	19	—	26	—	30
Spain .. ..	4	10	—	—	—	—
U.S.S.R. (c) .. ..	590,000	790,000	980,000	1,100,000	1,150,000	1,200,000
Yugoslavia .. ..	5,330	5,990	6,608	8,102	8,286	9,451
Egypt .. ..	443	227	541	171	1,553	2,880
Mozambique .. ..	20	145	331	—	—	80
South Africa—						
Amosite .. ..	61,277	61,816	66,860	69,302	68,996	72,085
Blue .. ..	69,421	83,750	103,866	88,545	91,424	108,145
Chrysotile .. ..	26,313	28,327	26,779	25,829	32,072	34,728
Tremolite .. ..	12	66	86	25	—	—
United States (d) .. ..	40,378	47,155	47,491	59,282	90,261	105,603
Argentina .. ..	—	—	r 181	r 326	484	n.a.
Bolivia (b) .. ..	167	103	n.a.	n.a.	n.a.	7
Brazil .. ..	13,027	n.a.	n.a.	n.a.	n.a.	n.a.
Venezuela .. ..	3,870	581	—	—	—	—
China (c) .. ..	80,000	90,000	90,000	100,000	120,000	130,000
Formosa .. ..	433	39	468	539	469	788
Japan—						
Chrysotile .. ..	15,216	16,785	13,756	16,259	16,052	14,689
Korea (South) .. ..	621	304	1,190	1,893	1,252	1,527
Philippine Republic .. ..	32	74	926	376	524	n.a.
Turkey .. ..	213	443	633	364	1,153	1,228
<b>Total* .. ..</b>	<b>1,000,000</b>	<b>1,200,000</b>	<b>1,400,000</b>	<b>1,600,000</b>	<b>1,700,000</b>	<b>1,800,000</b>
<b>WORLD'S TOTAL* .. ..</b>	<b>2,200,000</b>	<b>2,500,000</b>	<b>2,700,000</b>	<b>2,900,000</b>	<b>3,200,000</b>	<b>3,300,000</b>

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

(a) Sales and shipments.

(b) Exports.

(c) United States Bureau of Mines' estimate.

(d) Sold or used by producers.

(e) Fibre.

## EXPORTS OF ASBESTOS

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom—						
Unmanufactured .. .. .	7,749	7,014	7,060	8,126	5,703	5,745
Packing, etc. . . . .	12,654	11,741	10,608	10,468	10,423	11,091
Cement products .. . . .	59,634	52,979	39,448	44,041	57,857	37,747
Yarn and cloth .. . . .	3,131	3,369	3,062	3,544	3,843	3,862
Other manufactures .. . .	13,624	17,348	16,013	12,018	14,466	13,091
Kenya—						
Unmanufactured .. . . .	29	31	18	—	—	—
Rhodesia (e)—						
Unmanufactured .. . . .	114,221	119,211	129,834	109,926	158,769	164,762
Cement products .. . . .	(£1,599)	(£1,153)	(£1,568)	(£180)	(£491,982)	(£634,260)
Canada—						
Crude .. . . .	215	157	162	174	191	110
Fibre .. . . .	408,976	470,825	475,018	495,910	562,960	563,194
Shorts and waste .. . . .	544,821	526,232	564,704	581,081	627,453	614,736
Manufactured .. . . .	(£366,963)	(£345,378)	(£391,752)	(£492,693)	(£654,355)	(£670,009)
Cyprus—						
Unmanufactured .. . . .	15,328	15,805	13,879	13,460	11,317	17,263
India—						
Unmanufactured .. . . .	26	34	12	6	8	9
Manufactured (a) .. . . .	599	614	766	119	51	138
Cement products (a) .. . .	582	617	738	1,021	1,038	444
Malaya—						
Cement products .. . . .	5,933	7,116	2,918	4,490	11,154	14,557
Other manufactures .. . .	24	78	86	30	26	30
Hong Kong—						
Cement products .. . . .	r 299	r 63	r 165	r 113	—	—
Australia—						
Unmanufactured .. . . .	7,410	7,196	8,695	2,347	6,500	4,295
Packing (b) .. . . .	(£30,690)	(£13,538)	(£43,083)	(£35,015)	(£74,305)	(£141,226)
New Zealand—						
Cement products (N.Z.)	(£5,690)	(£6,999)	(£2,959)	n.a.	n.a.	n.a.
<b>OTHER COUNTRIES</b>						
Austria—						
Unmanufactured .. . . .	62	337	229	157	15	9
Manufactured (c) .. . . .	1,567	1,717	1,455	1,641	1,973	2,641
Cement products (d) .. . .	5,541	6,082	7,693	11,203	10,519	13,376
Belgium-Luxemburg						
E.U.—						
Unmanufactured .. . . .	292	604	119	391	128	23
Manufactured (c) .. . . .	995	2,821	2,849	454	478	643
Cement products (d) .. . .	220,922	218,089	214,822	212,442	213,063	210,948
Denmark—						
Unmanufactured .. . . .	26	30	93	34	67	159
Manufactured (c) .. . . .	510	520	759	785	513	875
Cement products (d) .. . .	5,019	6,329	7,229	9,890	7,102	7,447
Finland—						
Unmanufactured .. . . .	5,463	5,580	5,635	5,991	7,435	8,426
Manufactured .. . . .	577	647	719	620	725	1,131
France—						
Unmanufactured .. . . .	10,619	11,210	9,905	6,076	8,786	4,934
Manufactured (c) .. . . .	4,638	4,971	3,970	4,543	4,408	5,006
Cement products (d) .. . .	64,625	47,221	52,822	38,570	38,107	33,731

(a) Years ended March 31 following that stated.

(b) Years ended June 30 of that stated.

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

(d) Including manufactures of other fibro-cements.

(e) Figures for years 1960 to 1963 exclude exports to Malawi and Zambia.



## EXPORTS OF ASBESTOS (cont.)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Germany (Federal)—						
Unmanufactured ..	222	913	364	294	249	271
Manufactured (a) ..	3,576	3,943	3,683	3,681	4,301	5,351
Cement products (b) ..	22,571	22,365	22,261	49,445	57,804	36,156
Italy—						
Unmanufactured ..	7,062	9,061	7,765	6,310	8,875	25,293
Manufactured (a) ..	915	1,061	907	4,008	2,376	1,295
Cement products (b) ..	50,253	52,706	60,586	31,970	49,808	42,902
Netherlands—						
Unmanufactured ..	35	259	57	120	17	92
Manufactured (a) ..	1,824	8,386	2,300	2,151	2,462	1,899
Cement products (b) ..	20,567	10,089	6,644	8,069	7,906	5,627
Portugal—						
Unmanufactured ..	34	31	92	44	2	41
Manufactured ..	851	839	748	447	552	664
Spain—						
Manufactured (a) ..	(b) 158	(b) 50	(b) 38	(b) 22	(b) 141	(b) 268
Cement products ..	n.a.	(b) 406	(b) 355	(b) 288	(b) 277	(b) 1,893
Sweden—						
Unmanufactured ..	28	51	12	53	134	13
Manufactured (a) ..	122	103	113	93	111	166
Cement products ..	13,507	18,081	15,346	17,279	22,517	20,005
Switzerland—						
Manufactured (a) ..	430	452	520	160	233	71
Cement products (b) ..	6,652	2,351	2,319	2,939	3,523	5,837
U.S.S.R.—						
Unmanufactured ..	143,800	156,100	166,400	177,300	208,800	244,500
Yugoslavia—						
Unmanufactured ..	5,134	4,226	5,296	5,376	4,264	4,387
Manufactured ..	n.a.	39	131	255	1,726	1,108
Cement products ..	5	—	107	503	500	6,626
Algeria—						
Cement products (b) ..	1,410	n.a.	n.a.	n.a.	n.a.	n.a.
Egypt—						
Unmanufactured ..	—	30	n.a.	n.a.	n.a.	n.a.
Morocco—						
Cement products ..	7,348	10,389	11,261	9,095	10,561	14,849
Mozambique—						
Unmanufactured ..	79	157	39	—	—	143
South Africa—						
Unmanufactured (c) ..	190,627	167,192	182,715	184,244	223,350	187,121
Cement products ..	(£296,577)	(£207,215)	(£286,208)	(£275,902)	(£157,338)	n.a.
Other manufactures ..	(£37,531)	(£26,050)	(£12,340)	(£24,173)	(£105,688)	n.a.
United States—						
Unmanufactured ..	4,876	3,189	2,521	8,909	24,000	38,388
Spun, woven and packing ..	1,181	1,149	1,298	1,336	1,357	2,255
Brake linings ..	(£1,597,200)	(£1,497,467)	(£1,653,325)	(£1,745,765)	(£1,721,809)	(£1,690,816)
Clutch facings ..	(£409,169)	(£410,464)	(£555,751)	(£628,845)	(£659,061)	(£604,603)
Pipe covering and cement ..	3,115	2,345	2,580	3,661	n.a.	10,327
Other manufactures ..	8,894	10,090	8,093	12,026	11,596	(£2,192,335)
Bolivia—						
Unmanufactured ..	167	103	n.a.	n.a.	n.a.	7
Colombia—						
Cement products ..	256	363	553	2,291	4,358	1,977
Peru—						
Manufactured ..	48	11	116	—	31	n.a.
Venezuela—						
Unmanufactured ..	3,603	375	—	—	7	—

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

(b) Including manufactures of other fibro-cements.

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

## EXPORTS OF ASBESTOS (cont.)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Formosa—						
Unmanufactured ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	34	50	86
Manufactured .. ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	213	828	16
Japan—						
Unmanufactured ..	36	15	24	106	53	757
Manufactured .. ..	1,076	1,663	2,160	3,633	4,134	3,332
Cement products ..	1,155	462	371	21,812	15,942	47,980
Lebanon—						
Cement products ..	10,364	10,432	17,800	14,485	15,021	<i>n.a.</i>
Thailand—						
Cement products ..	1,423	1,197	1,013	3,461	<i>n.a.</i>	<i>n.a.</i>
Turkey—						
Unmanufactured ..	5	—	—	—	—	—

IMPORTS OF ASBESTOS

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—						
Unmanufactured—						
Crude and fibre ..	158,315	154,942	133,656	144,074	160,626	157,920
Waste .. .. .	9,870	11,582	11,261	13,362	22,759	18,161
Cement products ..	14,722	16,651	17,010	18,058	22,564	27,312
Other manufactures ..	2,541	4,780	3,970	5,914	6,714	6,614
Channel Islands—						
Manufactured .. ..	1,200	2,074	1,593	1,738	2,696	2,594
Malta—						
Manufactured .. ..	(£20,612)	(£30,034)	(£29,433)	(£8,262)	(£13,837)	(£14,367)
Gambia—						
Cement sheets and pipes	11	28	294	r 551	534	594
Ghana—						
Cement sheets, pipes etc.	20,804	21,675	15,354	22,663	20,144	18,042
Kenya—						
Manufactured .. ..	5,260	2,187	1,376	2,119	902	976
Mauritius—						
Manufactured .. ..	625	642	1,856	346	877	1,244
Nigeria—						
Cement sheets and pipes	28,866	30,290	18,836	8,218	7,558	8,478
Sierra Leone—						
Cement sheets and pipes	1,154	1,199	621	870	288	—
Tanzania—						
Manufactured .. ..	1,707	1,622	1,112	618	918	n.a.
Uganda—						
Unmanufactured ..	817	733	652	376	736	860
Manufactured .. ..	506	441	407	715	619	400
Zambia (a)—						
Unmanufactured ..	n.a.	n.a.	n.a.	n.a.	1,175	913
Cement products ..	(£66,013)	(£51,793)	(£89,005)	(£33,430)	(£442,007)	(£411,686)
Canada—						
Unmanufactured ..	n.a.	n.a.	n.a.	n.a.	8,230	6,142
Packing .. .. .	201	291	194	238	325	342
Other manufactures ..	(£1,499,746)	(£1,494,336)	(£1,389,038)	(£1,582,563)	(£1,811,982)	(£1,922,075)
Barbados—						
Manufactured .. ..	21	12	27	20	31	30
Bermuda—						
Sheets, etc. .. ..	(£6,345)	(£17,561)	(£14,542)	(£12,261)	(£10,101)	(£13,780)
Grenada—						
Manufactured .. ..	(£86)	7	2	7	2	4
Jamaica—						
Unmanufactured ..	34	28	21	114	171	349
Manufactured .. ..	854	93	174	348	546	369
Cement products ..	334	2,405	2,467	r 1,093	446	2,858
St. Vincent—						
Cement products ..	33	42	18	n.a.	n.a.	3
Trinidad and Tobago—						
Cement products ..	469	394	230	891	159	n.a.
Other manufactures ..	305	619	602	599	507	n.a.
British Guiana—						
Cement products ..	2,671	860	r 1,336	n.a.	900	} 1,990
Other manufactures ..	199	907	100	n.a.	177	
Brunei—						
Cement products ..	n.a.	n.a.	n.a.	n.a.	1,434	1,203
Ceylon—						
Unmanufactured ..	—	318	—	—	463	693
Cement sheets, etc. ..	6,036	72	2,223	3,757	158	9
Other manufactures ..	377	410	30	28	777	4,385
Cyprus—						
Sheets and pipes ..	1,805	3,207	4,009	4,585	2,689	4,080
Other manufactures ..	(£29,168)	(£37,075)	(£29,204)	(£34,516)	(£33,539)	(£88,458)

(a) Figures for years 1960 to 1963 relate to Rhodesia and Nyasaland.

## IMPORTS OF ASBESTOS (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
<i>(cont.)</i>						
Hong Kong—						
Unmanufactured ..	22	28	16	9	<sup>(e)</sup> 1	235
Manufactured ..	r 278	r 408	r 275	r 295	(£103,632)	(£144,149)
Cement products ..	r 29,147	r 34,428	r 27,329	r 34,578	11,115	8,057
India—						
Unmanufactured ..	21,619	19,178	22,023	36,374	35,222	37,219
Manufactured (b) ..	1,288	2,276	921	1,661	1,768	2,669
Cement products (b) ..	1,178	1,826	1,589	2,038	180	162
Malaya—						
Unmanufactured ..	2,823	5,321	5,711	7,396	12,381	12,404
Cement products ..	20,630	25,362	22,384	23,958	12,155	6,599
Other manufactures ..	483	664	736	638	762	952
Pakistan—						
Cement sheets ..	102	397	1,656	519	134	n.a.
Sabah—						
Manufactured ..	14	10	3	17	10	22
Cement products ..	n.a.	n.a.	n.a.	3,647	3,587	3,778
Sarawak—						
Cement products ..	492	1,072	1,198	1,450	3,786	6,420
Other manufactures ..	17	134	43	4	14	12
Australia—						
Unmanufactured ..	36,609	32,947	34,915	32,704	38,299	46,179
Packing, etc. (a) ..	(£447,615)	(£555,484)	(£412,965)	(£490,708)	(£594,958)	(£665,094)
New Zealand—						
Unmanufactured ..	4,512	5,188	5,830	5,671	<sup>(a)</sup> 5,468	<sup>(a)</sup> 7,500
Manufactured (£N.Z.) ..	(£184,637)	(£256,376)	(£191,024)	} (£487,654)	a (£283,897)	a (£204,326)
Cement products (£N.Z.) ..	(£42,424)	(£104,153)	(£118,568)			
Irish Republic—						
Unmanufactured ..	2,843	1,983	3,344	r 3,111	3,218	5,009
Manufactured ..	2,475	4,007	2,232	r 3,021	1,419	1,566
<b>OTHER COUNTRIES</b>						
Austria—						
Unmanufactured ..	12,565	20,611	15,766	20,986	21,091	30,611
Manufactured (c) ..	331	266	249	345	504	579
Cement products (d) ..	907	3,140	3,919	5,766	7,537	8,715
Belgium-Luxemburg						
E.U.—						
Unmanufactured ..	53,135	55,305	54,627	48,972	55,026	60,062
Manufactured (c) ..	4,301	2,924	2,950	2,414	2,884	2,720
Cement products (d) ..	1,447	2,278	7,415	9,561	6,919	2,524
Czechoslovakia—						
Unmanufactured ..	26,560	31,935	27,860	22,307	24,130	27,126
Denmark—						
Unmanufactured ..	17,164	19,265	20,781	17,142	19,126	26,169
Manufactured (c) ..	1,529	1,882	1,908	1,860	1,702	2,431
Cement products (d) ..	11,639	20,927	6,856	1,055	7,338	12,945
Finland—						
Unmanufactured ..	4,376	6,175	6,758	5,991	6,648	7,360
Manufactured ..	446	711	740	620	795	1,825
France—						
Unmanufactured ..	67,505	76,785	95,881	73,353	107,811	104,981
Manufactured (c) ..	1,589	1,841	1,904	2,535	2,413	3,355
Cement products (d) ..	866	8,391	7,302	18,102	38,692	31,101
Germany (Federal)—						
Unmanufactured ..	130,532	121,332	126,123	141,169	140,556	170,733
Manufactured (c) ..	4,484	4,447	5,426	6,834	7,885	8,657
Cement products (d) ..	132,622	73,246	88,023	96,652	92,976	109,043

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

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

(d) Including manufactures of other fibro-cements.

(e) Excess of re-exports.

## IMPORTS OF ASBESTOS (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES (cont.)						
Greece—						
Unmanufactured ..	47	2,031	3,333	2,771	4,879	4,397
Manufactured (a) ..	385	475	546	4,807	2,772	3,476
Hungary—						
Unmanufactured ..	9,649	10,509	10,852	14,320	14,744	10,533
Iceland—						
Unmanufactured ..	36	28	24	11	5	7
Manufactured ..	35	22	29	77	189	178
Italy—						
Unmanufactured ..	29,138	43,139	40,199	38,145	43,197	38,029
Manufactured (a) ..	4,041	3,294	3,700	1,745	3,552	3,235
Cement products (b) ..	588	3,149	11,407	14,452	14,554	12,494
Netherlands—						
Unmanufactured ..	21,381	19,413	16,700	16,381	22,908	18,632
Manufactured (a) ..	3,358	3,718	2,979	2,986	4,579	3,841
Cement products (b) ..	78,103	88,500	71,360	30,712	110,011	112,534
Norway—						
Unmanufactured ..	6,808	5,981	5,148	3,474	5,786	5,018
Manufactured (a) ..	3,547	2,998	1,722	1,350	1,828	1,813
Cement products (b) ..	7,932	9,041	9,481	13,534	13,346	12,855
Poland—						
Unmanufactured ..	15,003	19,609	n.a.	21,028	21,359	32,000
Portugal—						
Unmanufactured ..	2,309	2,561	2,676	1,817	2,472	3,816
Manufactured (a) ..	272	425	391	367	363	434
Spain—						
Unmanufactured ..	14,224	22,935	27,412	39,309	50,696	48,433
Manufactured (a) (b) ..	189	540	752	1,593	2,525	2,627
Sweden—						
Unmanufactured ..	16,836	16,749	18,555	15,377	19,446	20,828
Manufactured (a) ..	3,839	3,671	3,949	3,428	3,464	4,265
Cement products ..	16,786	16,100	17,902	16,676	13,513	12,527
Switzerland—						
Unmanufactured ..	8,557	9,134	11,931	11,190	12,330	14,436
Manufactured (a) ..	1,703	2,134	2,488	2,277	3,147	3,026
Cement products (b) ..	289	1,308	7,691	3,537	5,690	2,230
Yugoslavia—						
Unmanufactured ..	8,589	7,601	9,181	7,975	15,329	12,750
Manufactured ..	659	731	691	563	595	405
Cement products ..	1	39	49	184	639	21
Algeria—						
Unmanufactured ..	6,091	n.a.	n.a.	n.a.	n.a.	n.a.
Manufactured (a) ..	745	n.a.	n.a.	n.a.	n.a.	n.a.
Cement products (b) ..	9,365	n.a.	n.a.	n.a.	n.a.	n.a.
Angola—						
Unmanufactured ..	806	702	491	575	992	1,342
Manufactured ..	15	(a) 57	(a) 85	(a) 97	(a) 166	(a) 281
Egypt—						
Unmanufactured ..	6,479	4,805	9,402	7,736	3,360	4,533
Manufactured ..	963	791	1,807	699	518	n.a.
Libya—						
Manufactured ..	613	1,337	838	220	22	55
Malagasy Republic—						
Manufactured (a) ..	110	88	99	74	85	n.a.
Cement products ..	558	1,484	1,949	604	716	n.a.
Morocco—						
Unmanufactured ..	2,634	2,077	2,178	2,316	1,964	2,640
Manufactured (a) ..	146	178	138	166	129	147
Cement products ..	234	109	83	163	80	1

(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	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Mozambique—						
Unmanufactured ..	709	865	605	495	450	863
Manufactured ..	33	44	23	25	49	52
South Africa—						
Unmanufactured ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	4,489	<i>n.a.</i>
Packing ..	(£243,499)	(£261,999)	(£260,893)	(£263,760)	(d)	<i>n.a.</i>
Cement products ..	(£10,121)	(£8,997)	(£7,550)	(£15,582)	(£41,476)	<i>n.a.</i>
Other manufactures ..	(£135,058)	(£58,605)	(£29,075)	(£10,981)	(£940,489)	<i>n.a.</i>
Sudan—						
Manufactured ..	6,199	6,296	5,801	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Tunisia—						
Unmanufactured ..	2	7	5	3	279	400
Manufactured (a) ..	62	70	72	67	179	110
Cement products (b) ..	6,870	5,830	8,395	8,314	12,917	5,838
Costa Rica—						
Manufactured ..	58	44	60	68	77	75
Guatemala—						
Unmanufactured ..	222	422	469	282	453	983
Manufactured (c) ..	77	74	77	191	103	140
Honduras—						
Manufactured ..	46	29	35	35	82	48
Mexico—						
Unmanufactured ..	13,208	15,074	11,508	19,668	23,715	<i>n.a.</i>
Manufactured ..	860	803	632	823	444	<i>n.a.</i>
Netherlands Antilles—						
Manufactured ..	370	205	313	313	266	166
Cement sheets ..	1,947	2,557	2,976	3,028	2,104	2,270
Nicaragua—						
Manufactured ..	31	24	55	32	55	146
Panama Republic—						
Cement products ..	275	347	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Salvador—						
Unmanufactured ..	223	587	406	827	813	781
Manufactured ..	79	115	4	104	84	122
United States—						
Unmanufactured—						
Crude ..	42,958	38,757	40,743	37,832	} 660,144	} 49,500
Mill fibre ..	133,231	128,161	13,266	12,784		
Other ..	421,575	383,574	549,587	545,687		
Manufactured ..	40,439	32,102	38,584	34,605	43,357	42,800
Argentina—						
Unmanufactured and manufactured ..	11,565	12,371	11,598	9,544	12,866	15,396
Brazil—						
Unmanufactured ..	13,453	15,264	11,040	19,887	13,123	14,912
Manufactured ..	817	605	546	508	611	240
Chile—						
Manufactured ..	4,048	8,000	4,898	9,241	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Unmanufactured ..	6,728	10,100	10,909	12,729	7,886	8,818
Manufactured ..	543	846	822	1,043	1,212	407
Cement products ..	361	1,106	14,882	—	383	1
Ecuador—						
Unmanufactured ..	<i>n.a.</i>	346	384	319	755	<i>n.a.</i>
Manufactured ..	<i>n.a.</i>	224	217	202	376	<i>n.a.</i>
Peru—						
Unmanufactured ..	1,784	2,374	2,377	2,570	2,861	<i>n.a.</i>
Manufactured ..	297	523	1,049	445	588	<i>n.a.</i>

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

(b) Including manufactures of other fibro-cements.

(c) Including cement products.

(d) Included with "other manufacturers".

## IMPORTS OF ASBESTOS (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Surinam—						
Manufactured .. ..	1,955	1,392	744	720	1,135	<i>n.a.</i>
Uruguay .. ..	1,823	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Venezuela—						
Unmanufactured .. ..	2,241	3,872	3,398	2,584	4,643	4,248
Manufactured .. ..	1,945	1,409	568	684	829	488
Cement products .. ..	2,478	546	1,694	20,644	5,294	2,442
Burma—						
Unmanufactured .. ..	461	665	493	531	1,166	1,871
Cement products .. ..	516	12	4	560	6	18
Formosa—						
Unmanufactured .. ..	1,030	820	1,400	876	1,032	1,604
Manufactured .. ..	254	158	211	249	385	468
Indonesia—						
Unmanufactured .. ..	579	2,171	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Manufactured .. ..	447	459	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Cement products .. ..	1,541	2,296	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Iran (a)—						
Unmanufactured .. ..	1,226	792	759	1,200	2,258	3,289
Manufactured .. ..	243	993	377	123	136	147
Cement products .. ..	1,759	4,933	10,553	1,079	895	1,686
Iraq—						
Unmanufactured .. ..	443	1,014	1,456	817	2,740	<i>n.a.</i>
Manufactured .. ..	201	229	277	139	170	<i>n.a.</i>
Cement products .. ..	1,673	1,782	93	10	99	<i>n.a.</i>
Israel—						
Unmanufactured .. ..	6,510	8,533	8,031	9,156	7,438	8,325
Japan—						
Unmanufactured .. ..	75,838	113,002	95,147	113,668	141,695	131,413
Manufactured .. ..	149	336	622	1,092	1,099	958
Cement products .. ..	221	158	5	336	151	338
Jordan—						
Manufactured .. ..	397	305	354	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Lebanon—						
Unmanufactured .. ..	2,222	2,097	4,027	2,569	3,934	<i>n.a.</i>
Manufactured .. ..	63	53	65	123	89	<i>n.a.</i>
Cement products .. ..	844	488	290	368	221	<i>n.a.</i>
Philippine Republic—						
Unmanufactured .. ..	1,216	830	931	1,332	1,864	<i>n.a.</i>
Manufactured .. ..	621	<i>n.a.</i>	57	124	122	<i>n.a.</i>
Cement products .. ..	350	817	325	298	71	<i>n.a.</i>
Syria—						
Cement sheets .. ..	2,151	512	4,824	4,508	4,969	4,060
Other manufactures .. ..	51	79	73	22	69	28
Thailand—						
Unmanufactured .. ..	6,331	3,531	5,311	7,895	7,742	7,110
Manufactured .. ..	211	281	360	997	554	606
Cement products .. ..	4,928	5,892	3,922	4,031	4,871	4,495
Turkey—						
Unmanufactured .. ..	463	734	1,492	1,234	2,416	2,612
Manufactured .. ..	1,313	906	811	3,518	1,027	393
Cement products .. ..	250	192	146	119	7,980	35

(a) Years ended March 20 following that stated.

## BARIUM MINERALS

### PRODUCTION OF BARIUM MINERALS\*

Long tons

Producing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom—						
Barytes and witherite, unground .. .. .	40,591	44,825	33,784	22,000	24,000	29,000
do. ground .. .. .	19,615	37,029	41,889	33,369	37,000	31,000
Canada .. .. .	137,761	170,896	202,321	154,913	151,026	179,783
Kenya .. .. .	—	—	—	—	—	35
Rhodesia .. .. .	1,100	645	859	1,744	1,394	<i>n.a.</i>
Swaziland .. .. .	179	405	61	83	15	483
India .. .. .	13,371	<i>r</i> 15,663	<i>r</i> 24,089	37,279	46,217	45,189
Pakistan .. .. .	633	477	2,825	<i>r</i> 4,841	11,817	8,696
Australia .. .. .	11,417	19,217	12,534	8,220	12,302	12,142
Irish Republic .. .. .	10,450	4,160	<i>r</i> 20	9,100	40,386	82,661
<b>OTHER COUNTRIES</b>						
Austria .. .. .	4,312	2,425	1,064	2,139	1,241	2,297
France .. .. .	104,340	84,828	82,652	73,284	82,497	81,000
Germany (Federal) .. .. .	490,299	463,350	457,349	449,492	460,081	461,941
Greece .. .. .	100,181	73,815	70,278	<i>r</i> 142,280	<i>n.a.</i>	<i>n.a.</i>
Italy .. .. .	141,004	128,174	119,621	101,990	83,400	139,654
Poland .. .. .	(c) 11,000	36,751	44,501	44,979	45,000	(c) 47,000
Portugal .. .. .	3,848	2,040	1,330	1,632	343	1,071
Spain .. .. .	25,532	33,436	38,324	47,600	58,199	<i>n.a.</i>
U.S.S.R. (c) .. .. .	125,000	150,000	180,000	200,000	200,000	210,000
Yugoslavia (a) .. .. .	101,794	81,734	86,570	74,944	71,725	61,625
Algeria .. .. .	54,968	30,253	(d) 30,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Egypt .. .. .	2,677	1,548	1,210	4,058	—	—
Morocco .. .. .	82,986	80,885	88,375	93,061	88,425	102,239
South Africa .. .. .	1,677	1,752	1,672	2,414	2,531	1,319
Mexico .. .. .	266,481	244,780	313,113	252,540	328,768	362,524
United States .. .. .	688,677	653,019	791,932	717,059	729,202	755,050
Argentina .. .. .	24,096	28,104	12,338	<i>r</i> 22,634	13,488	(c) 13,000
Brazil .. .. .	39,130	61,459	53,787	33,572	33,007	63,344
Chile .. .. .	1,778	1,385	1,032	1,003	1,074	2,806
Colombia .. .. .	7,200	10,064	8,000	10,500	10,000	8,700
Peru .. .. .	107,869	109,409	112,742	<i>r</i> 122,819	130,298	101,528
Uruguay .. .. .	—	100	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Burma .. .. .	1,600	2,007	3,984	—	—	(c) 2,000
China (c) .. .. .	60,000	80,000	80,000	90,000	100,000	100,000
Iran (b) .. .. .	13,000	18,700	14,763	(c) 15,000	(c) 15,000	(c) 15,000
Japan .. .. .	22,486	28,788	37,514	36,928	39,116	<i>n.a.</i>
Korea (South) .. .. .	200	700	905	2,714	2,700	1,267
Korea (North) (c) .. .. .	40,000	55,000	60,000	65,000	65,000	80,000
Philippine Republic .. .. .	5,534	1,883	409	900	1,453	<i>n.a.</i>
Turkey .. .. .	1,476	—	1,870	966	5,954	11,791
<b>TOTAL†</b> .. .. .	<b>2,800,000</b>	<b>2,800,000</b>	<b>3,000,000</b>	<b><i>r</i> 2,900,000</b>	<b>3,100,000</b>	<b>3,300,000</b>

\*Barytes unless otherwise stated.

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

(a) Exports.

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

(c) United States Bureau of Mines' estimate.

(d) Estimated.



## EXPORTS OF BARIUM MINERALS, ETC.\*

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom— Barium compounds, excluding blanc fixe ..	4,393	4,160	4,935	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Canada— Barytes .. .. .	120,511	153,300	206,163	142,761	139,756	165,207
India— Unground barytes ..	24,412	7,219	5,419	9,048	7,834	4,791
Australia— Ground barytes ..	7,650	5,902	1,663	2,600	6,209	2,183
Irish Republic— Unground barytes ..	9,675	8,420	830	10,228	31,939	95,686
<b>OTHER COUNTRIES</b>						
Austria— Barytes .. .. .	25	30	—	20	6	—
Belgium-Luxemburg E.U.— Barytes and witherite .. } Barytes, ground .. } Sulphate .. .. .	33	438	23	22	191	209
Carbonate .. .. .	2,423	1,088	471	328	121	20
Chloride .. .. .	118	126	—	—	30	4
France— Chloride .. .. .	6	36	20	26	—	25
Barytes .. .. .	21,788	21,875	18,063	10,704	15,907	13,774
Witherite .. .. .	—	—	—	2	3	49
Chloride .. .. .	5,783	6,345	6,666	7,639	6,922	8,206
Carbonate .. .. .	2,232	1,907	4,206	3,230	2,723	3,154
Sulphate .. .. .	410	739	645	651	1,023	927
Sulphide .. .. .	63	21	11	3	5	—
Germany (Federal)— Barytes and witherite ..	134,083	121,937	98,221	102,355	121,560	111,541
Carbonate .. .. .	14,782	14,360	12,139	12,533	15,097	26,634
Chloride .. .. .	3,627	4,128	3,050	3,590	4,401	3,447
Sulphate .. .. .	15,858	16,609	18,402	18,533	19,945	18,559
Greece— Barytes .. .. .	108,094	59,671	60,829	76,511	65,854	49,816
Italy— Barytes .. .. .	33,095	38,012	45,944	22,025	11,004	32,223
Witherite .. .. .	3	20	90	30	5	64
Carbonate .. .. .	816	1,965	1,697	735	694	2,209
Chloride .. .. .	1,014	1,464	1,422	1,243	885	1,462
Sulphate .. .. .	344	361	571	138	104	93
Sulphide .. .. .	103	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Netherlands— Barytes .. .. .	87	19	8	10	278	584
Carbonate .. .. .	75	<i>n.a.</i>	41	483	622	535
Chloride .. .. .	53	<i>n.a.</i>	23	24	154	92
Sulphate .. .. .	2,141	2,199	1,489	2,394	2,559	1,530
Sulphide .. .. .	3,408	3,275	3,495	—	2,919	79
Portugal— Barytes .. .. .	1,580	601	5	4	107	20
Spain— Barytes .. .. .	<i>n.a.</i>	34,983	39,461	27,293	55,779	49,147
Sweden— Barytes and witherite ..	3	5	—	6	—	—
Yugoslavia— Unground barytes ..	89,127	70,489	70,861	59,735	54,601	45,450
Ground barytes ..	12,667	11,245	15,709	15,209	17,124	16,175

\*For Lithopone, see "Zinc".

## EXPORTS OF BARIUM MINERALS, ETC. (cont.)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Algeria—						
Barytes .. ..	3,101	814	974	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Morocco—						
Barytes .. ..	55,401	73,522	66,010	80,813	71,695	106,234
South Africa—						
Barytes .. ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	132	4
Mexico—						
Barytes .. ..	156,083	124,655	216,270	144,371	174,259	216,067
Argentina—						
Barytes .. ..	866	827	626	25	54	59
Brazil—						
Barytes .. ..	47,047	41,723	50,196	26,684	57,958	21,738
Peru—						
Barytes .. ..	102,810	100,330	83,341	15,249	124,968	<i>n.a.</i>
Japan—						
Barytes .. ..	—	325	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	49
Chloride .. ..	5	—	9	16	135	285
Sulphate .. ..	41	77	49	74	77	2,050
Korea (South)—						
Barytes .. ..	366	936	294	1,661	2,560	1,096

## IMPORTS OF BARIUM MINERALS, ETC.\*

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom—						
Unground barytes .. .. .	27,640	22,809	19,073	20,689	37,787	54,481
Ground barytes .. .. .	18,071	15,232	8,369	7,330	8,817	12,598
Canada—						
Barytes .. .. .	1,804	1,687	2,158	3,420	2,862	3,291
Blanc fixe .. .. .	1,076	1,021	1,032	894	<i>n.a.</i>	<i>n.a.</i>
Trinidad and Tobago—						
Barytes .. .. .	27,218	30,380	42,230	40,403	51,711	<i>n.a.</i>
India (a)—						
Barytes .. .. .	5	7	8	3	4	11
Carbonate .. .. .	646	160	1,064	1,254	611	333
Chloride .. .. .	204	273	787	526	402	627
Sulphate .. .. .	150	66	58	132	110	252
Pakistan—						
Barytes .. .. .	3,744	392	82	9	110	<i>n.a.</i>
Australia (b)—						
Barytes ground .. .. .	151	160	—	—	—	636
Carbonate .. .. .	283	204	371	539	661	547
Chloride .. .. .	160	162	220	248	286	197
Sulphate incl. blanc fixe	520	530	261	330	269	331
Other compounds .. .. .	126	130	—	—	—	—
New Zealand—						
Barytes .. .. .	3,990	5,233	1,116	(b) 621	(b) 1,229	<i>n.a.</i>
<b>OTHER COUNTRIES</b>						
Austria—						
Barytes .. .. .	9,006	8,665	8,424	8,242	8,421	8,347
Carbonate .. .. .	503	627	447	628	659	731
Chloride .. .. .	252	315	291	281	327	365
Sulphate .. .. .	395	287	273	225	376	478
Belgium-Luxembourg						
E.U.—						
Barytes and witherite ..	} 34,015	} 32,199	} 29,276	} 26,783	} 23,463	} 25,236
Barytes, ground .. .. .						
Sulphate .. .. .						
Carbonate .. .. .						
Chloride .. .. .						
Sulphide .. .. .	3,379	3,300	3,442	3,398	2,929	<i>n.a.</i>
Denmark—						
Barytes .. .. .	841	737	615	726	654	612
Carbonate .. .. .	453	318	302	457	642	629
Chloride .. .. .	157	231	140	169	186	189
Sulphate .. .. .	435	306	298	381	362	814
Finland—						
Barytes .. .. .	} 349	} 402	} 455	} 451	} 627	} 592
Witherite .. .. .						
Chloride .. .. .						
Carbonate .. .. .						
Sulphate .. .. .						
Sulphate .. .. .	694	733	880	1,043	1,408	1,270
France—						
Barytes .. .. .	54,605	53,501	50,912	65,384	66,626	73,250
Witherite .. .. .	89	154	3	5	1	16
Chloride .. .. .	11	19	—	3	447	380
Carbonate .. .. .	—	31	2	9	111	142
Sulphate .. .. .	720	696	714	824	1,156	1,105

\*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	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES (cont.)						
Germany (Federal)—						
Barytes and witherite ..	14,644	9,804	1,094	5,761	44,972	53,190
Carbonate .. ..	1,543	1,709	246	497	2,234	3,815
Chloride .. ..	158	523	867	745	802	1,890
Sulphate .. ..	531	331	78	153	190	128
Greece—						
Sulphate .. ..	256	206	230	329	292	283
Iceland—						
Sulphate .. ..	12	17	21	17	22	21
Italy—						
Barytes .. ..	196	10,919	19,099	21,224	27,418	18,429
Witherite .. ..	2,574	1	24	31	2	185
Carbonate .. ..	262	29	79	167	118	1,457
Chloride .. ..	56	—	—	13	24	12
Sulphate .. ..	518	605	848	990	1,202	1,274
Netherlands—						
Barytes and witherite ..	36,322	37,501	22,296	14,088	36,485	28,702
Barytes, ground .. ..						
Carbonate .. ..						
Chloride .. ..						
Sulphate .. ..	1,326	961	1,032	1,079	1,036	872
Norway—						
Barytes .. ..	593	580	354	616	532	454
Carbonate .. ..	362	461	336	337	463	485
Chloride .. ..	174	169	186	166	243	416
Sulphate .. ..	185	196	122	158	97	69
Poland—						
Barytes .. ..	6,635	9,307	<i>n.a.</i>	8,760	5,125	<i>n.a.</i>
Portugal—						
Barytes .. ..	59	100	87	65	181	197
Chloride .. ..	95	28	96	5	1	5
Sulphate .. ..	182	145	191	184	212	273
Sweden—						
Barytes and witherite ..	2,861	2,038	1,643	1,274	1,644	1,848
Carbonate .. ..	1,762	2,238	2,226	1,743	2,819	2,826
Chloride .. ..	513	395	237	248	296	372
Sulphate .. ..	2,520	1,505	1,822	2,234	2,351	2,640
Switzerland—						
Barytes .. ..	1,931	2,932	2,470	1,920	1,989	4,683
Sulphate .. ..	1,754	1,954	1,814	1,788	1,505	1,768
U.S.S.R.—						
Barytes .. ..	59,500	70,000	79,500	104,500	96,100	103,500
Algeria—						
Barytes .. ..	12,261	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sulphate .. ..	18	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Carbonate .. ..	2	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Malagasy Republic—						
Barytes and witherite ..	49	—	<i>n.a.</i>	—	2	<i>n.a.</i>
Morocco—						
Barytes .. ..	8	12	11	12	15	4
South Africa—						
Barytes .. ..	798	1,200	2,076	1,989	2,376	<i>n.a.</i>
Barium compounds .. ..	381	400	342	303	<i>n.a.</i>	<i>n.a.</i>
Tunisia—						
Barytes .. ..	374	809	2,163	1,416	4,281	10,009

## IMPORTS OF BARIUM MINERALS, ETC. (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Mexico—						
Barytes .. .. .	368	355	660	548	442	<i>n.a.</i>
Carbonate .. .. .	445	426	286	483	674	<i>n.a.</i>
Chloride .. .. .	310	298	451	420	500	<i>n.a.</i>
United States—						
Unground barytes ..	572,930	543,000	657,793	516,159	535,669	635,931
Ground barytes ..	41	6,221	124	264	947	420
Witherite .. .. .	1,244	1,610	1,341	2,482	2,171	2,317
Carbonate .. .. .	1,256	1,063	1,340	748	929	737
Chloride .. .. .	897	909	1,027	1,029	1,012	794
Sulphate .. .. .	1,454	1,230	1,539	1,430	2,066	1,450
Argentina—						
Sulphate .. .. .	109	203	336	16	58	378
Barium compounds ..	255	290	106	150	139	19
Brazil—						
Barytes .. .. .	20	33	27	35	24	30
Carbonate .. .. .	1,026	528	1,385	866	939	1,359
Chloride .. .. .	363	896	602	982	383	983
Sulphate .. .. .	457	585	560	588	392	530
Chile—						
Barytes .. .. .	19	720	1,142	51	<i>n.a.</i>	<i>n.a.</i>
Carbonate .. .. .	132	249	176	199	<i>n.a.</i>	<i>n.a.</i>
Chloride .. .. .	—	—	20	—	<i>n.a.</i>	<i>n.a.</i>
Sulphate .. .. .	4	6	232	7	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Barytes .. .. .	440	—	—	—	—	1
Witherite .. .. .	—	1	1	—	—	—
Carbonate .. .. .	227	358	219	106	91	135
Chloride .. .. .	57	4	67	55	84	33
Sulphate .. .. .	451	7	9	17	20	7
Ecuador—						
Sulphate .. .. .	<i>n.a.</i>	662	10	305	579	<i>n.a.</i>
Peru—						
Carbonate .. .. .	223	200	200	131	107	<i>n.a.</i>
Chloride .. .. .	105	67	96	90	127	<i>n.a.</i>
Sulphate .. .. .	334	70	15	44	44	<i>n.a.</i>
Uruguay—						
Sulphate .. .. .	189	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Venezuela—						
Barytes .. .. .	17,910	3,596	3,500	53	17,058	17,124
Carbonate .. .. .	45	48	33	25	40	55
Chloride .. .. .	361	618	229	453	218	352
Sulphate .. .. .	34	46	56	87	121	104
Formosa—						
Carbonate .. .. .	24	30	49	54	136	182
Chloride .. .. .	25	26	37	42	35	30
Iraq—						
Barytes .. .. .	5,410	342	218	32	<i>n.a.</i>	<i>n.a.</i>
Israel—						
Barytes .. .. .	<i>n.a.</i>	120	200	476	455	425
Japan—						
Barytes .. .. .	18,212	8,863	5,797	5,811	11,164	14,084
Lebanon—						
Barytes and witherite ..	103	3	52	227	206	<i>n.a.</i>
Turkey—						
Barytes .. .. .	971	63	6	10	2,416	197
Carbonate .. .. .	43	102	98	61	9	62
Chloride .. .. .	102	8	160	1	108	162
Sulphate .. .. .	19	342	973	741	42	40

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

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Cyprus (a) .. ..	219	—	—	536	1,528	3,190
India .. .. .	n.a.	(b) 11,000	(b) 14,000	25,120	21,176	n.a.
Pakistan .. ..	579	967	393	n.a.	n.a.	n.a.
Australia—						
Bentonite .. ..	382	587	485	1,392	158	n.a.
Bentonitic clay ..	190	307	299	136	841	n.a.
New Zealand .. ..	2,165	1,661	1,488	1,660	1,806	2,926
<b>OTHER COUNTRIES</b>						
Austria .. .. .	3,227	3,528	3,178	2,744	3,072	3,973
Greece .. .. .	24,000	25,000	20,352	34,405	n.a.	n.a.
Hungary .. .. .	69,826	73,602	82,780	110,917	96,830	105,000
Italy .. .. .	156,461	154,864	125,465	157,586	129,151	156,243
Spain .. .. .	4,761	7,222	11,975	13,945	14,239	n.a.
Yugoslavia .. ..	n.a.	17,711	(b) 20,000	n.a.	n.a.	n.a.
Mozambique .. ..	36	n.a.	n.a.	n.a.	903	2,680
South Africa .. ..	3,421	4,042	5,555	7,691	9,166	10,783
United States (c) ..	1,132,857	1,167,135	1,289,406	1,414,746	1,544,199	1,685,667
Argentina .. .. .	27,482	31,354	n.a.	n.a.	n.a.	n.a.
Peru .. .. .	236	395	261	365	654	n.a.
Turkey .. .. .	n.a.	n.a.	n.a.	(b) 2,000	(b) 2,000	(b) 2,000

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

(a) Exports of bentonitic clay.

(c) Sold or used by produce

(b) Estimated.

EXPORTS OF BENTONITE

Long tons

Exporting Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Cyprus (a) .. ..	219	—	—	536	1,528	3,190
India .. .. .	56	289	214	22	66	587
<b>OTHER COUNTRIES</b>						
Austria .. .. .	74	32	86	36	3	90
France .. .. .	3,790	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Germany (Federal) ..	189	1,127	702	206	232	583
Greece .. .. .	22,568	13,210	15,553	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Italy .. .. .	10,560	19,053	27,788	29,586	22,105	20,893
Yugoslavia .. .. .	11,595	9,405	8,570	12,846	17,358	14,006
Algeria .. .. .	27,650	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Morocco .. .. .	11,898	7,948	7,095	6,253	8,401	6,060
South Africa .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	41	1,504
United States .. .. .	51,867	39,119	53,853	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Argentina .. .. .	2,153	4,595	6,779	5,214	5,548	5,135

(a) Bentonitic clay.

IMPORTS OF BENTONITE

Long tons

Importing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Canada .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	102,184	162,645
India .. .. .	147	75	141	159	904	57
Australia (a) .. .. .	7,270	6,895	9,205	10,727	14,010	16,054
<b>OTHER COUNTRIES</b>						
Austria .. .. .	3,407	4,669	5,971	9,976	13,604	17,814
France .. .. .	22,694	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Germany (Federal) ..	3,053	3,828	3,550	3,859	4,550	11,374
Italy .. .. .	4,784	3,919	4,275	3,955	4,642	4,775
Poland .. .. .	5,675	6,536	<i>n.a.</i>	8,344	8,668	<i>n.a.</i>
Portugal .. .. .	<i>n.a.</i>	1,050	1,348	1,322	1,547	1,579
Sweden .. .. .	9,640	9,649	2,053	2,127	5,804	4,849
Algeria .. .. .	6,063	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Morocco .. .. .	13	37	45	12	20	4
South Africa .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,514	<i>n.a.</i>
United States .. .. .	197	652	247	<i>n.a.</i>	160	389
Brazil .. .. .	<i>n.a.</i>	3,603	7,091	6,116	8,069	4,476
Colombia .. .. .	2,803	2,301	2,337	2,599	2,194	1,806
Ecuador .. .. .	<i>n.a.</i>	178	117	125	352	<i>n.a.</i>
Venezuela .. .. .	3,114	3,722	4,092	2,784	4,540	3,687

(a) Including bentonitic clay.

**BERYL**  
PRODUCTION OF BERYL

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Kenya .. .. .	1	1	—	—	1	—
Rhodesia .. ..	481	354	498	222	162	(c) 85
Swaziland .. ..	5	6	—	2	—	—
Uganda .. .. .	419	1,015	996	374	409	189
Zambia .. .. .	2	—	—	—	—	—
India (a) .. ..	893	790	134	—	—	1,345
Australia .. ..	190	306	223	110	111	13
<b>OTHER COUNTRIES</b>						
Portugal .. .. .	29	34	17	2	18	38
Sweden .. .. .	—	—	(a) r 24	(a) —	(a) 44	(a) —
Congo Republic ..	332	164	272	210	121	19
Malagasy Republic ..	626	746	663	405	209	20
Mozambique .. ..	1,425	943	560	548	399	216
Rwanda and Burundi ..	277	468	351	252	281	n.a.
South Africa .. ..	291	171	321	379	135	41
South West Africa ..	231	225	142	54	7	52
United States (b) ..	454	1,002	873	671	n.a.	n.a.
Argentina .. .. .	r 649	419	220	186	185	374
Brazil .. .. .	1,669	1,111	987	467	567	440
Afghanistan .. ..	10	—	—	—	—	—
Korea (South) .. ..	—	5	—	—	—	—
<b>TOTAL* .. .. .</b>	<b>8,000</b>	<b>7,800</b>	<b>6,300</b>	<b>3,900</b>	<b>3,000</b>	<b>4,000</b>

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

(a) Imports into the United States.

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

1960—237 long tons; 1961—719 long tons; 1962—679 long tons; 1963—670 long tons;  
1964—nil; 1965—nil.

(c) Exports.



EXPORTS OF BERYL

Long tons

Exporting Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Rhodesia (b) .. ..	533	381	451	268	142	85
Uganda .. .. .	382	871	1,064	341	466	272
India (a) .. .. .	893	790	134	—	—	—
Australia .. .. .	148	167	218	129	93	50
<b>OTHER COUNTRIES</b>						
Italy .. .. .	179	37	—	—	—	—
Portugal .. .. .	29	—	—	n.a.	n.a.	54
Congo Republic .. ..	412	(a) 196	(a) 433	(a) 455	(a) 225	(a) 1,201
Malagasy Republic .. ..	607	827	713	223	235	62
Mozambique .. .. .	1,402	957	216	731	376	218
South Africa .. .. .	217	64	312	266	82	96
South West Africa .. ..	89	91	115	36	10	24
Argentina .. .. .	1,033	1,329	890	739	395	156
Brazil .. .. .	3,417	3,128	2,963	1,937	1,379	1,095

(a) Imports into the United States.

(b) Figures for years 1960 to 1963 relate to Rhodesia and Nyasaland.

IMPORTS OF BERYL\*

Long tons

Importing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom (a) ..	18	26	5	n.a.	n.a.	n.a.
<b>OTHER COUNTRIES</b>						
France .. .. .	861	776	601	120	375	n.a.
Italy .. .. .	779	925	—	—	—	—
United States .. .. .	7,985	7,603	7,636	5,574	4,844	6,956

\*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	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Uganda—						
Ore ( <i>Bi content</i> ) ..	2	1	—	—	—	—
Canada—						
Metal plus content of bullion and concentrates exported ..	189	213	190	160	179	229
<b>OTHER COUNTRIES</b>						
France—						
Mispickel ( <i>Bi content</i> ) ..	50	52	62	67	68	60
Spain—						
Ore ( <i>Bi content</i> ) ..	15	9	2	4	—	<i>n.a.</i>
Sweden—						
Metal ( <i>c</i> ) .. ..	35	35	69	69	67	67
Yugoslavia—						
Metal .. ..	103	97	89	87	82	87
Mozambique—						
Ore ( <i>Bi content</i> ) ..	14	22	8	14	9	6
South Africa—						
Ore ( <i>Bi content</i> ) ..	—	—	—	1	—	—
South West Africa—						
Ore .. ..	—	1	—	—	5	1
Mexico—						
Ore ( <i>Bi content</i> ) ..	268	1,047	350	420	465	477
Argentina—						
Concentrates ( <i>Bi content</i> ) ..	5	4	3	1	—	—
Bolivia ( <i>b</i> )—						
Ore, etc. ( <i>Bi content</i> ) ..	180	208	291	276	270	292
Peru—						
Concentrates ( <i>a</i> ) ( <i>Bi content</i> ) .. ..	4	1	3	4	} 721	766
Lead bars ( <i>Bi content</i> ) .. ..	27	78	51	83		
Metal .. ..	375	382	430	468		
Japan—						
Ore ( <i>Bi content</i> ) ..	311	1,006	1,184	226	—	<i>n.a.</i>
Korea (South)—						
Ore ( <i>Bi content</i> ) ..	142	149	158	156	( <i>c</i> ) 500	<i>n.a.</i>

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

(a) Recoverable.

(b) Exports.

(c) United States Bureau of Mines' estimate.

## EXPORTS OF BISMUTH, ETC.

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—						
Bismuth . . . . .	380	382	509	603	717	527
Bismuth salts . . . . .	199	214	142	<i>n.a.</i>	55	43
Uganda—						
Ore ( <i>Bi content</i> ) . . . . .	4	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1
Canada—						
Bismuth . . . . .	128	174	171	178	<i>n.a.</i>	<i>n.a.</i>
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Bismuth ( <i>a</i> ) . . . . .	51	51	64	120	146	84
France—						
Bismuth ( <i>a</i> ) . . . . .	54	64	44	46	60	58
Germany (Federal)—						
Bismuth . . . . .	152	136	137	114	58	71
Netherlands—						
Bismuth ( <i>a</i> ) . . . . .	<i>n.a.</i>	148	149	178	155	276
Bismuth salts . . . . .	16	21	67	79	47	48
Yugoslavia—						
Bismuth . . . . .	78	70	64	57	38	54
South Africa—						
Ore . . . . .	3	1	—	—	—	1
Mexico—						
Bismuth, refined . . . . .	90	91	122	141	171	145
do. impure bars . . . . .	198	1,323	295	263	393	408
United States—						
Matte, residues, etc. . . . .	—	67	104	2	6	<i>n.a.</i>
Metal and alloys . . . . .	70	75	53	14	21	153
Argentina—						
Ore . . . . .	—	—	—	—	—	15
Bolivia—						
Ore, etc. ( <i>Bi content</i> ) . . . . .	180	208	291	276	270	292
Peru—						
Bars, etc. ( <i>Bi content</i> ) . . . . .	339	326	731	495	730	<i>n.a.</i>
Japan—						
Bismuth . . . . .	10	48	87	159	245	134
Korea (South)—						
Bismuth, unwrought . . . . .	57	56	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

(a) Including scrap.

## IMPORTS OF BISMUTH, ETC.

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom—						
Bismuth (c) .. ..	471	216	528	422	609	387
Unwrought alloys ..	124	340	348	278	379	292
Canada—						
Bismuth .. .. .	3	8	25	3	<i>n.a.</i>	<i>n.a.</i>
Bismuth salts .. ..	4	6	5	3	<i>n.a.</i>	<i>n.a.</i>
India (a)—						
Bismuth and alloys ..	38	60	44	41	56	26
Australia (b)—						
Bismuth .. .. .	16	17	12	16	17	11
Bismuth salts .. ..	10	12	7	8	7	7
New Zealand—						
Bismuth and its salts ..	2	1	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
<b>OTHER COUNTRIES</b>						
Belgium-Luxemburg						
E.U.—						
Bismuth .. .. .	26	40	98	1,181	71	37
Bismuth salts .. ..	77	66	74	81	84	98
France—						
Bismuth (c) .. .. .	515	508	556	654	773	689
Germany (Federal)—						
Bismuth (c) .. .. .	212	232	276	250	254	230
Italy—						
Bismuth .. .. .	38	35	44	43	39	44
Bismuth salts .. ..	11	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Netherlands—						
Bismuth salts .. ..	84	60	86	119	104	87
Poland—						
Bismuth .. .. .	44	20	<i>n.a.</i>	71	97	<i>n.a.</i>
Spain—						
Bismuth .. .. .	13	23	17	8	21	11
Morocco—						
Bismuth salts .. ..	14	15	13	10	8	38
Mexico—						
Bismuth salts .. ..	8	8	5	8	10	<i>n.a.</i>
United States—						
Bismuth .. .. .	515	341	358	502	551	615
Argentina—						
Bismuth and its salts ..	2	5	1	3	9	17
Brazil—						
Bismuth .. .. .	3	5	7	11	2	12
Bismuth salts .. ..	23	18	4	13	16	11
Chile—						
Bismuth .. .. .	1	2	—	5	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Bismuth salts .. ..	8	4	5	8	6	1
Peru—						
Bismuth salts .. ..	—	1	1	1	1	<i>n.a.</i>
Japan—						
Bismuth .. .. .	8	2	2	3	2	32
Turkey—						
Bismuth salts .. ..	3	4	5	5	3	5

(a) Years ended March 31 following that stated.

(c) Including scrap.

(b) Years ended June 30 of that stated.

**BORATES**  
**PRODUCTION OF CRUDE BORATES**

Long tons

Producing Country and Description	1960	1961	1962	1963	1964	1965
Italy— Boric acid .. ..	2,615	1,745	1,356	506	314	85
United States (a)— Borates .. ..	571,956	538,047	577,333	625,163	693,106	721,000
Argentina— Borates .. ..	4,479	6,728	14,271	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Chile— Boron minerals ..	2,873	157	3,754	5,870	3,262	4,441
Turkey— Borates .. ..	68,736	63,999	112,141	86,697	126,228	168,277

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	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—						
Borax .. .. .	935	656	667	620	917	881
Other borates and perborates .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	6,289	9,835	11,825
OTHER COUNTRIES						
Austria—						
Perborates .. .. .	<i>n.a.</i>	2,077	1,710	2,020	2,287	3,132
Belgium-Luxemburg						
E.U.—						
Borax .. .. .	33	102	5	28	22	179
Boric acid .. .. .	8	10	7	—	1	4
Borates and perborates	1,370	2,881	4,062	3,375	5,626	6,625
France—						
Boron minerals .. .. .	99	64	122	348	667	1,193
Borax, refined .. .. .	3,878	3,094	3,273	6,300	7,086	6,442
Boric acid .. .. .	658	3,056	5,496	10,865	13,166	13,547
Borates and perborates	911	955	4,466	5,669	7,935	4,676
Germany (Federal)—						
Borax .. .. .	161	79	210	106	95	102
Boric acid .. .. .	107	111	62	60	82	76
Borates and perborates	8,522	8,432	8,590	8,807	12,239	13,596
Italy—						
Boric acid crude .. .. .	—	3,578	3,957	4,365	5,954	5,426
do. refined .. .. .	1,731					
Borax, refined .. .. .	1,150	905	1,537	2,489	2,056	1,129
Perborates .. .. .	974	1,232	702	343	237	407
Netherlands—						
Boron minerals .. .. .	—	<i>n.a.</i>	—	20	84,194	131,437
Borax, refined .. .. .	202	167	421	257	8,593	34,739
Boric acid .. .. .	21	22	31	44	25	23
Perborates .. .. .	—	—	—	41	<i>n.a.</i>	—
Sweden—						
Perborate of sodium .. .. .	47	16	71	30	42	42
Switzerland—						
Borates and perborates	2,830	2,242	1,941	1,639	1,535	2,012
United States—						
Borax, borates and boric acid .. .. .	268,398	240,421	260,950	302,600	342,054	<i>n.a.</i>
Argentina—						
Borates of calcium and sodium .. .. .	981	2,239	3,516	5,324	875	200
Japan—						
Borax .. .. .	5	4	(a) 14	19	83	104
Boric acid .. .. .	21	5	8	10	31	11
Turkey—						
Borates .. .. .	60,552	63,305	87,081	90,094	116,538	150,154

(a) Including other borates and perborates.

## IMPORTS OF BORATES

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
<b>United Kingdom—</b>						
Boron minerals .. ..	23,712	21,438	21,591	25,870	29,893	<i>n.a.</i>
Borax .. ..	28,699	22,412	21,497	21,389	27,279	21,850
Boric acid .. ..	6,799	3,773	3,475	<i>n.a.</i>	3,255	3,072
<b>Rhodesia (c)—</b>						
Borax .. ..	134	117	139	113	<i>n.a.</i>	<i>n.a.</i>
Boric acid .. ..	12	13	12	12	<i>n.a.</i>	<i>n.a.</i>
<b>Canada—</b>						
Borax .. ..	8,942	10,465	11,631	13,023	9,390	8,601
Boric acid .. ..	2,082	2,018	2,378	1,352	1,463	2,393
<b>Hong Kong—</b>						
Borax, refined .. ..	<i>r</i> 3,126	<i>r</i> 3,163	<i>r</i> 3,778	<i>r</i> 3,356	3,724	3,626
Boric acid .. ..	<i>r</i> 110	160	97	122	123	144
<b>India—</b>						
Borax .. ..	5,898	6,217	4,807	5,995	8,683	8,986
Boric acid (b) .. ..	1,042	1,046	638	1,041	2,421	571
<b>Pakistan—</b>						
Borax .. ..	644	404	287	340	445	<i>n.a.</i>
<b>Australia (a)—</b>						
Boron minerals .. ..	783	1,093	1,833	1,912	975	1,293
Boron salts .. ..	3,940	4,311	3,417	3,988	4,462	4,316
Boric acid .. ..	1,427	1,046	1,009	1,168	1,304	1,425
<b>New Zealand—</b>						
Borax, crude .. ..	700	1,088	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Boric acid .. ..	301	388	477	(a) 422	(a) 1,450	<i>n.a.</i>
<b>Irish Republic—</b>						
Borax .. ..	914	1,001	1,109	1,305	1,035	857
<b>OTHER COUNTRIES</b>						
<b>Austria—</b>						
Boron minerals .. ..	3,047	4,103	4,112	3,634	5,447	5,043
Borates .. ..	2	1	3	24	27	23
Boric acid .. ..	1	6	2	5	22	185
Perborates .. ..	6	5	5	153	3	2
<b>Belgium-Luxemburg</b>						
<b>E.U.—</b>						
Borax .. ..	3,878	4,413	5,186	6,488	10,429	9,884
Boric acid .. ..	1,039	1,038	373	551	717	588
Borates and perborates	2,623	2,514	2,001	1,966	1,731	2,486
<b>Denmark—</b>						
Boron minerals .. ..	706	569	903	799	925	1,353
Borax .. ..	110	118	156	131	140	152
Boric acid .. ..	78	98	99	104	135	130
Borates and perborates	1,931	2,073	2,660	2,250	3,209	4,668
<b>Finland—</b>						
Boron minerals .. ..	<i>n.a.</i>	1	1,024	784	1,496	2,333
Borax .. ..	1,026	779	753	918	557	758
Boric acid .. ..	172	137	192	118	172	115
Borates and perborates	<i>n.a.</i>	1,340	1,483	1,649	2,288	1,714
<b>France—</b>						
Boron minerals .. ..	25,721	25,584	32,028	39,115	46,436	66,238
Borax refined .. ..	13,400	13,990	17,586	21,424	25,671	25,311
Boric acid .. ..	1,521	1,589	1,432	419	613	414
Borates and perborates	559	560	548	727	614	729
<b>Germany (Federal)—</b>						
Boron minerals .. ..	39,874	37,736	32,262	43,920	47,850	54,183
Boric acid .. ..	7,363	6,275	7,406	6,737	10,906	11,339
Borax .. ..	13,228	12,580	13,266	15,359	20,600	20,399
Borates and perborates	42	214	213	148	1,136	1,396

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

(c) Figures for years 1960 to 1963 relate to Rhodesia and Nyasaland.

## IMPORTS OF BORATES (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES (cont.)						
Greece—						
Boron minerals.. ..	201	198	103	306	310	333
Borax .. ..	21	—	16	32	1	17
Boric acid .. ..	12	29	23	19	37	39
Italy—						
Boron minerals .. ..	28,291	36,631	57,289	49,383	53,667	82,184
Borax .. ..	3,603	3,430	4,138	6,123	6,588	7,284
Boric acid .. ..	—	6	163	180	108	20
Borates .. ..	1	378	43	74	5,917	1,876
Perborates .. ..	—	168	301	1,221		
Netherlands—						
Boron minerals.. ..	3,259	2,078	3,770	3,445	90,726	162,366
Borax .. ..	8,065	10,674	10,166	11,164	20,691	46,352
Boric acid .. ..	934	1,572	1,431	1,974	2,333	2,425
Perborates .. ..	2,213	3,390	4,310	3,703	5,195	5,890
Norway—						
Borax .. ..	1,552	2,241	1,348	1,758	2,492	1,705
Boric acid .. ..	629	823	629	291	726	604
Perborate of sodium .. ..	1,285	1,573	2,053	1,709	2,018	1,897
Portugal—						
Boric acid .. ..	123	83	86	100	163	125
Borax .. ..	1,056	776	1,014	1,103	1,355	1,198
Spain—						
Boric acid .. ..	5	—	—	6	316	678
Borates .. ..	6	9	177	6,644	10,876	8,757
Sweden—						
Borax .. ..	2,134	2,879	3,731	3,367	4,166	5,412
Boric acid .. ..	281	349	258	427	418	539
Perborate of sodium .. ..	2,416	3,049	3,407	2,970	4,662	6,095
Switzerland—						
Borax (a) .. ..	373	86	135	155	206	436
Boric acid .. ..	365	253	471	456	583	479
Borates .. ..	4,039	4,010	4,569	4,350	4,737	5,129
Perborates .. ..	118	298	478	468	4	293
U.S.S.R.—						
Borax .. ..	n.a.	14,200	6,300	7,300	15,000	9,800
Yugoslavia—						
Boric acid .. ..	179	339	361	366	408	703
Algeria—						
Borax .. ..	96	n.a.	n.a.	n.a.	n.a.	n.a.
Boric acid .. ..	7	n.a.	n.a.	n.a.	n.a.	n.a.
Perborates .. ..	23	n.a.	n.a.	n.a.	n.a.	n.a.
Angola—						
Borax .. ..	17	38	11	39	24	75
Egypt—						
Borax .. ..	274	610	227	n.a.	n.a.	n.a.
Boric acid .. ..	169	213	1	n.a.	n.a.	n.a.
Morocco—						
Borates .. ..	95	88	276	414	317	439
Perborates .. ..	27	26	10	35	16	36
Mozambique—						
Borax .. ..	7	7	4	6	8	5
Boric acid .. ..	3	1	1	2	1	3
South Africa—						
Boron minerals .. ..	n.a.	n.a.	n.a.	n.a.	99	n.a.
Borax .. ..	1,194	1,983	1,675	1,341	n.a.	n.a.
Boric acid .. ..	293	181	343	193	574	n.a.
Borates and perborates .. ..	n.a.	n.a.	n.a.	n.a.	2,273	n.a.
Tunisia—						
Borax etc. .. ..	43	42	36	20	19	34

(a) Crude borax only.



## IMPORTS OF BORATES (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES (cont.)						
Mexico—						
Borax .. .. .	4,638	4,141	4,134	5,937	2,390	<i>n.a.</i>
Boric acid .. .. .	744	737	814	822	950	<i>n.a.</i>
Brazil—						
Boron minerals.. .. .	694	1,077	1,082	—	—	49
Boric acid .. .. .	386	586	873	967	1,004	865
Borax .. .. .	3,440	4,479	6,212	7,944	7,895	7,089
Borates .. .. .	4	2	1	1	—	6
Colombia—						
Borax .. .. .	370	375	616	961	357	226
Boric acid .. .. .	189	225	210	322	189	115
Perborate of sodium .. .. .	108	63	99	104	109	68
Ecuador—						
Borax .. .. .	<i>n.a.</i>	25	4	18	34	<i>n.a.</i>
Boric acid .. .. .	<i>n.a.</i>	13	9	10	16	<i>n.a.</i>
Peru—						
Borax .. .. .	435	324	356	331	347	<i>n.a.</i>
Boric acid .. .. .	113	104	51	123	88	<i>n.a.</i>
Uruguay—						
Borates .. .. .	407	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Venezuela—						
Borax .. .. .	196	262	382	584	1,515	1,899
Boric acid .. .. .	74	207	102	87	142	192
Formosa—						
Borax .. .. .	1,019	559	981	1,100	1,442	1,848
Boric acid .. .. .	66	76	92	69	110	1,090
Iran (a)—						
Borax .. .. .	—	180	227	316	230	178
Boric acid .. .. .	5	6	10	11	23	7
Israel—						
Borates .. .. .	<i>n.a.</i>	<i>n.a.</i>	661	310	493	429
Perborate of sodium .. .. .	148	73	88	295	271	321
Japan—						
Borax .. .. .	14,739	17,164	20,154	24,482	26,951	26,474
Boric acid .. .. .	4,943	5,032	5,775	6,028	7,351	6,106
Korea (South)—						
Borax .. .. .	367	296	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Lebanon—						
Borates .. .. .	256	344	445	584	796	<i>n.a.</i>
Perborates .. .. .						
Philippine Republic—						
Boric acid .. .. .	49	36	34	105	110	<i>n.a.</i>
Thailand—						
Borax .. .. .	300	565	863	460	467	556
Boric acid .. .. .	13	97	80	101	107	57
Turkey—						
Borax .. .. .	278	235	348	537	590	160
Boric acid .. .. .	31	48	1	8	21	7

(a) Years ended March 20 following that stated.

**BROMINE**  
**PRODUCTION OF BROMINE**

Lb. avdp.

Producing Country	1960	1961	1962	1963	1964	1965
France (a) .. ..	4,430,000	4,039,000	3,571,000	4,259,000	5,858,000	n.a.
Germany (Federal) .. ..	n.a.	n.a.	n.a.	n.a.	5,434,000	n.a.
Italy .. ..	2,036,250	2,153,560	2,207,535	2,562,428	n.a.	n.a.
United States (a) (b) .. ..	175,010,000	180,798,000	190,747,000	203,333,000	238,019,000	274,569,000
Israel .. ..	5,292,000	(c)9,700,000	n.a.	n.a.	n.a.	(a)9,300,000
Japan .. ..	4,301,000	6,120,000	6,360,000	6,120,000	6,360,000	n.a.

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

(a) Sales.

(b) Including bromine content of compounds.

(c) Year ended 31st March, 1962.

**EXPORTS OF BROMINE, ETC.**

Lb. avdp.

Exporting Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom— Bromides .. ..	698,000 (£81,238)	647,700 (£79,347)	n.a. n.a.	(a) (£138,775)	(a) (£180,195)	(a) (£181,972)
OTHER COUNTRIES						
Belgium-Luxemburg E.U.—						
Bromine .. ..	—	—	—	—	33,069	2,205
Bromides, etc. .. ..	17,800	700	200	—	16,314	7,496
France—						
Bromine .. ..	1,303,200	901,200	842,000	1,682,127	2,153,916	2,427,289
Bromides .. ..	2,289,100	1,380,500	1,817,000	1,732,833	2,087,777	1,856,292
Germany (Federal)—						
Bromides .. ..	194,900	168,900	n.a.	131,000	177,500	72,500
Italy—						
Bromine .. ..	59,609	—	400	—	215,171	186,300
Bromides .. ..	452	2,400	13,000	15,873	35,053	1,100
Netherlands—						
Bromides, etc. .. ..	n.a.	n.a.	n.a.	1,027,354	1,044,991	663,591
United States—						
Bromine and compounds (b) .. ..	10,241,178	11,120,085	8,800,351	10,839,960	17,036,442	n.a.
Israel—						
Bromine .. ..	2,601,000	2,313,000	2,523,000	2,193,000	n.a.	6,867,000
Japan—						
Bromine .. ..	534	22,300	n.a.	n.a.	n.a.	n.a.
Bromine compounds .. ..	31,268	27,818	208,052	277,725	390,172	796,828

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

(b) Including organic compounds.

## IMPORTS OF BROMINE, ETC.

Lb. avdp.

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Canada—						
Bromine .. ..	70,301	62,007	35,415	39,389	<i>n.a.</i>	<i>n.a.</i>
Bromide of soda ..	67,353	106,103	77,906	100,077	<i>n.a.</i>	<i>n.a.</i>
India (b)—						
Bromine .. ..	162,700	302,000	456,141	397,895	265,961	113,238
Bromide of potash ..	150	1,850	1,629	22,046	602	694
Bromide of soda ..	4	50	—	22,046	—	16,480
Australia (a)—						
Bromate of potash ..	24,842	25,877	38,276	44,406	42,096	} 103,595
Bromide of potash ..	140,356	98,664	51,913	65,364	78,978	
Bromates and bromides of soda ..	91,219	83,009	69,335	69,064	94,734	97,085
<b>OTHER COUNTRIES</b>						
Belgium-Luxemburg						
E.U.—						
Bromine .. ..	18,300	15,400	32,600	27,600	37,000	30,000
Bromides, etc. ..	749,100	911,400	870,400	957,200	1,465,000	902,100
Denmark—						
Bromine .. ..	4,000	31,700	11,000	11,000	6,600	18,000
Bromide of potash ..	23,400	11,500	22,000	11,000	8,800	18,000
Bromide of soda ..	87,100	24,300	90,000	44,100	94,800	130,000
Other bromides ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	46,297	39,683	40,000
Finland—						
Bromine .. ..	<i>n.a.</i>	6,032	2,015	2,646	1,733	1,664
France—						
Bromine .. ..	—	—	—	6,600	253,500	—
Bromides .. ..	1,100	3,100	18,000	13,200	33,100	156,500
Germany (Federal)—						
Bromides .. ..	25,100	22,900	<i>n.a.</i>	238,800	399,300	755,700
Greece—						
Bromine .. ..	1,109	1,629	606	454	2,313	1,486
Italy—						
Bromine .. ..	698,788	1,023,600	477,962	111,995	117,506	49,400
Bromides .. ..	33,711	22,500	147,000	252,650	154,544	280,900
Netherlands—						
Bromine .. ..	—	—	—	1,157,000	911,000	1,543,000
Bromides, etc. ..	403,000	247,000	326,000	245,000	327,000	282,000
Norway—						
Bromine .. ..	2,000	2,000	2,000	—	—	2,000
Portugal—						
Bromine .. ..	<i>n.a.</i>	1,100	882	220	441	661
Bromide of soda ..	} 4,000	} 20,700	} 9,500	} 12,800	} 32,600	} 5,700
Bromide of potash ..						
Bromide of ammonium						
Spain—						
Bromides .. ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	82,978	85,608	76,053
Sweden—						
Bromine .. ..	7,000	22,000	9,000	17,637	2,205	—
Algeria—						
Bromides .. ..	20,700	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Morocco—						
Bromides .. ..	4,672	11,691	7,072	5,344	6,241	3,604
South Africa—						
Bromine .. ..	6,461	14,457	1,826	9,956	<i>n.a.</i>	<i>n.a.</i>

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

## IMPORTS OF BROMINE, ETC. (cont.)

Lb. avdp.

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b> (cont.)						
Mexico—						
Bromine .. .. .	151,841	49,423	130,723	84,433	100,650	<i>n.a.</i>
Bromides of potash and soda .. .. .	59,298	72,087	64,415	22,368	40,730	<i>n.a.</i>
United States—						
Bromine and compounds	347,163	293,582	461,108	374,012	<i>n.a.</i>	<i>n.a.</i>
Argentina—						
Bromine and compounds	192,891	206,086	284,050	239,598	342,552	300,131
Brazil—						
Bromine .. .. .	2,469	1,512	2,473	344	743	408
Bromides .. .. .	779,923	672,000	668,627	573,332	332,298	514,676
Chile—						
Bromine .. .. .	362	562	1,497	871	<i>n.a.</i>	<i>n.a.</i>
Bromides .. .. .	1,016	1,285	944	1,105	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Bromine .. .. .	—	—	—	1,181	2,571	1,243
Bromides, etc. ..	17,701	14,125	16,795	17,331	25,153	13,369
Peru—						
Bromine .. .. .	604	522	269	926	324	<i>n.a.</i>
Bromides .. .. .	3,413	5,593	6,620	7,311	6,660	<i>n.a.</i>
Iran (a)—						
Bromides .. .. .	4,850	47,772	31,654	22,578	36,564	11,872
Japan—						
Bromine compounds ..	—	7	6,700	26,440	40,431	60,777
Philippine Republic—						
Bromide of potash ..	18,973	<i>n.a.</i>	<i>n.a.</i>	21,599	4,683	<i>n.a.</i>
Thailand—						
Bromide of potash ..	17,245	25,513	12,946	19,207	19,619	31,603
Turkey—						
Bromine .. .. .	2,015	456	—	322	176	324
Bromides .. .. .	3,497	3,622	6,285	7,209	10,748	21,343

(a) Years ended March 20 following that stated.

**CADMIUM**  
**PRODUCTION OF CADMIUM**

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom ..	105	97	106	110	194	217
Zambia .. ..	26	19	17	15	14	18
Canada (b) .. ..	1,052	<i>r</i> 992	1,163	1,105	1,238	1,344
Australia .. ..	300	311	353	486	494	516
<b>OTHER COUNTRIES</b>						
Austria .. ..	15	19	22	19	19	21
Belgium .. ..	900	1,000	1,000	1,000	1,000	800
France .. ..	250	250	253	292	484	400
Germany (Federal) ..	403	425	250	219	314	322
Italy .. ..	262	341	243	277	273	269
Netherlands (e) .. ..	45	85	95	100	105	90
Norway .. ..	108	103	113	107	111	77
Poland (g) .. ..	380	390	390	410	410	410
Spain .. ..	12	25	34	59	60	(h) 60
U.S.S.R. (g) .. ..	1,400	1,500	1,600	1,700	1,800	1,900
Yugoslavia .. ..	38	(g) 39	(g) 39	(g) 39	(g) 40	(g) 40
Congo Republic .. ..	497	524	290	389	464	393
South West Africa (a) ..	773	780	544	472	315	567
Guatemala .. ..	18	39	4	3	—	2
Honduras .. ..	4	5	<i>r</i> 14	<i>r</i> 86	103	87
Mexico (c) .. ..	1,162	764	598	713	737	713
United States—						
Metal (d) .. ..	4,663	4,672	4,972	4,460	4,669	4,317
Ecuador .. ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	2	1
Peru (f) .. ..	107	129	126	<i>r</i> 189	203	<i>n.a.</i>
Japan .. ..	559	713	869	996	1,196	<i>n.a.</i>
Philippine Republic ..	—	—	1	11	11	<i>n.a.</i>
<b>TOTAL* .. ..</b>	<b>11,000</b>	<b><i>r</i> 12,000</b>	<b>12,000</b>	<b>12,000</b>	<b>13,000</b>	<b>13,000</b>

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

Cadmium is also reported to be produced in Bulgaria.

- (a) Estimated cadmium content of copper-lead-zinc concentrates produced and exported for treatment, plus, as from 1965, production of metal.
- (b) Metal produced plus cadmium content of concentrates exported.
- (c) Including cadmium content of flue dust, etc., exported for treatment.
- (d) Including secondary.
- (e) Estimate. Source: "Metallgesellschaft".
- (f) Including recoverable cadmium content of concentrates.
- (g) Estimate. Source: United States Bureau of Mines.
- (h) Estimate. Source: "Minerais et Métaux".

## EXPORTS OF CADMIUM, ETC.

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Zambia (e) .. ..	5	5	35	19	13	13
Canada .. ..	918	888	1,045	866	725	609
Australia .. ..	60	156	194	325	340	449
<b>OTHER COUNTRIES</b>						
Belgium-Luxemburg E.U. (a) ..	707	888	828	867	829	724
France—						
Cadmium (a) .. ..	17	23	21	64	76	102
Cadmium sulphide .. ..	—	5	18	4	—	—
Germany (Federal)—						
Cadmium (a) .. ..	106	77	63	48	52	109
Cadmium oxide .. ..	32	24	32	18	9	n.a.
Italy—						
Cadmium (a) .. ..	23	41	81	3	14	12
Cadmium salts .. ..	21	n.a.	n.a.	n.a.	—	—
Netherlands (a) .. ..	99	118	174	242	183	302
Norway .. ..	90	92	86	85	72	97
Poland .. ..	342	341	n.a.	285	292	n.a.
U.S.S.R. .. ..	899	1,040	1,100	984	689	900
Yugoslavia .. ..	n.a.	n.a.	n.a.	50	2	n.a.
Congo Republic (d) .. ..	500	500	300	600	350	400
South West Africa (b) .. ..	773	780	544	472	315	271
Mexico (c) .. ..	1,094	696	534	1,073	953	955
United States—						
Metal, alloys, dross, flue dust, etc. .. ..	1,093	313	320	586	643	33
Peru .. ..	71	93	117	147	205	n.a.
Japan .. ..	4	22	255	1,175	345	705

(a) Including scrap.

(b) Cadmium content of concentrates exported for treatment.

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

(d) Estimated.

(e) Figures for years 1960 to 1963 relate to Rhodesia and Nyasaland.

## IMPORTS OF CADMIUM, ETC.

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom .. .. .	1,389	1,149	1,157	1,380	1,549	1,430
India (a) .. .. .	77	71	41	60	105	151
<b>OTHER COUNTRIES</b>						
Austria .. .. .	17	23	12	15	12	12
Belgium-Luxemburg .. .. .						
E.U. (b) .. .. .	112	122	158	481	222	327
Denmark .. .. .	43	42	36	29	21	23
France—						
Cadmium (b) .. .. .	655	641	840	795	567	403
Cadmium sulphide .. .. .	25	22	18	18	12	15
Germany (Federal)—						
Cadmium (b) .. .. .	942	797	903	987	890	1,177
Cadmium oxide .. .. .	20	31	54	62	73	<i>n.a.</i>
Italy—						
Cadmium (b) .. .. .	92	58	81	73	47	41
Cadmium oxide .. .. .	14	16	23	15	15	1
Cadmium sulphide .. .. .	10	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Netherlands—						
Cadmium (b) .. .. .	102	133	213	186	174	247
Cadmium salts .. .. .	<i>n.a.</i>	26	24	48	75	78
Sweden .. .. .	104	129	102	185	140	110
U.S.S.R. .. .. .	283	329	329	255	153	233
Yugoslavia .. .. .	1	1	—	—	12	13
Algeria .. .. .	1	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
United States—						
Cadmium .. .. .	420	482	499	342	493	947
Flue dust (cadmium content) .. .. .	831	107	701	333	568	580
Argentina—						
Cadmium and salts .. .. .	1	5	2	1	1	3
Brazil—						
Cadmium .. .. .	16	38	34	46	28	33
Cadmium salts .. .. .	—	—	1	—	—	—

(a) Years ended March 31 following that stated.

(b) Including scrap.

**CEMENT**  
**PRODUCTION OF CEMENT**

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom .. .. .	13,288,000	14,149,000	14,028,000	13,837,000	16,698,000	16,700,000
Kenya .. .. .	335,766	324,717	340,905	338,000	415,000	476,000
Malawi .. .. .	30,000	36,000	32,000	25,000	31,000	31,000
Nigeria .. .. .	155,000	357,000	475,000	519,000	653,000	967,000
Rhodesia .. .. .	<i>n.a.</i>	275,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Uganda .. .. .	r 71,046	r 61,925	55,051	54,282	71,524	132,662
Zambia .. .. .	125,000	120,000	117,000	114,000	165,000	165,000
Canada (a) .. .. .	5,167,165	5,541,025	6,141,722	6,262,198	7,006,593	7,524,081
Jamaica .. .. .	209,069	212,303	196,520	197,550	277,465	311,069
Trinidad .. .. .	174,400	96,500	162,700	159,700	173,300	186,200
Ceylon .. .. .	83,623	80,473	83,442	74,049	73,436	84,477
Cyprus .. .. .	83,722	93,098	93,695	83,457	77,792	95,255
Hong Kong .. .. .	147,620	181,341	208,591	213,198	211,636	236,836
India .. .. .	7,720,000	8,114,000	8,450,000	9,207,000	9,537,000	10,449,000
Malaya .. .. .	281,900	326,000	320,000	355,000	458,000	720,000
Pakistan .. .. .	1,120,000	1,223,000	1,373,000	1,474,000	1,522,000	1,680,000
Australia .. .. .	2,747,400	2,813,000	2,887,000	3,070,000	3,568,000	3,742,000
Fiji .. .. .	—	—	—	—	31,000	39,000
New Zealand .. .. .	607,000	641,000	621,000	711,000	775,000	829,000
<b>TOTAL .. .. .</b>	<b>33,000,000</b>	<b>35,000,000</b>	<b>36,000,000</b>	<b>37,000,000</b>	<b>42,000,000</b>	<b>45,000,000</b>
Irish Republic .. .. .	733,602	732,528	873,459	869,482	1,020,067	1,219,534
<b>OTHER COUNTRIES</b>						
Albania .. .. .	72,000	118,000	117,000	128,000	125,000	148,000
Austria .. .. .	2,785,040	3,035,450	3,008,830	3,259,960	3,709,200	3,967,000
Belgium (b) .. .. .	r 4,146,088	r 4,371,543	4,712,580	4,635,020	5,753,730	5,811,873
Bulgaria .. .. .	1,560,000	1,721,000	1,863,000	2,170,000	2,545,000	2,639,000
Czechoslovakia .. .. .	4,971,000	5,259,000	5,620,000	5,096,000	5,406,000	5,623,000
Denmark—						
Portland cement .. .. .	1,248,173	1,352,952	1,401,604	1,267,106	1,676,665	1,798,548
Special cements .. .. .	170,866	206,288	204,546	229,851	191,322	169,584
Finland .. .. .	1,232,915	r 1,327,450	1,335,947	r 1,405,624	1,547,099	1,742,047
France—						
Portland cement .. .. .	9,134,976	9,455,689	11,571,177	12,447,198	15,970,694	} 21,904,000
Portland blast furnace cements .. .. .	3,163,445	3,126,525	2,773,763	3,827,851	3,417,770	
Slag cements .. .. .	30,998	63,140	10,449	43,472	4,766	
Masonry cements .. .. .	375,118	488,174	417,825	521,148	585,288	
Natural cements .. .. .	119,177	173,931	390,596	270,958	251,470	
Special cements .. .. .	1,111,728	1,831,010	1,451,948	737,134	966,934	
Germany (Federal)—						
Portland cement .. .. .	17,778,000	19,192,000	20,411,000	21,179,000	24,397,000	25,033,000
Portland blast furnace cements .. .. .	5,849,000	6,515,000	6,701,000	6,723,000	7,756,000	7,741,000
Special cements .. .. .	886,000	1,007,000	1,029,000	854,000	947,000	820,000
Germany (East) .. .. .	4,953,000	5,192,000	5,346,000	5,372,000	5,676,000	5,991,000
Greece .. .. .	1,558,661	1,741,292	1,890,621	r 2,257,293	2,629,688	3,161,460
Hungary .. .. .	1,546,278	1,576,156	1,705,941	1,769,200	2,221,037	2,345,771
Iceland .. .. .	72,000	74,000	96,000	97,000	106,000	112,000
Italy .. .. .	15,683,552	17,698,986	19,838,415	21,700,000	22,500,000	19,900,000
Luxemburg .. .. .	206,395	227,520	226,367	198,467	202,000	218,000
Netherlands .. .. .	1,769,100	1,872,612	1,983,000	2,048,000	2,827,300	2,926,300
Norway .. .. .	1,132,962	1,254,266	1,389,587	1,414,998	1,516,171	1,519,471
Poland .. .. .	6,495,000	7,248,000	7,425,000	7,553,000	8,623,000	9,423,000

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

(b) Excluding natural cement.



## PRODUCTION OF CEMENT (cont.)

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES						
(cont.)						
Portugal .. ..	1,182,826	1,224,717	1,378,759	1,410,159	1,595,985	1,554,000
Roumania .. ..	3,006,200	3,255,538	3,434,129	4,300,000	4,677,000	5,321,000
Spain—						
Portland cement ..	4,693,092	5,603,290	6,187,313	6,665,709	7,509,853	} 9,685,000
Natural cement ..	490,495	518,953	546,907	585,565	376,718	
Other cements ..	390,417	285,762	324,655	274,855	312,065	
Sweden—						
Portland cement ..	2,745,842	2,878,760	2,919,957	3,100,488	3,449,785	} 3,660,000
Other cements ..	127,277	151,736	139,169	152,938	119,152	
Switzerland .. ..	2,988,196	3,544,292	3,667,018	3,524,768	4,254,047	3,975,658
U. S. S. R. .. ..	44,801,000	50,061,000	56,423,000	60,054,000	63,900,000	71,240,000
Yugoslavia .. ..	2,360,000	2,299,000	2,478,000	r 2,802,000	2,992,000	3,053,000
Algeria .. ..	1,045,000	1,054,800	631,600	869,900	718,400	713,000
Angola .. ..	158,603	154,051	166,721	190,962	210,440	241,582
Canary Islands ..	68,239	115,284	120,058	99,296	167,213	(g)
Cape Verde Islands	4,000	7,000	7,000	11,000	12,000	(e) 12,000
Congo Republic ..	(f) 200,000	140,000	194,000	242,308	228,663	244,000
Egypt .. ..	2,015,000	2,026,000	r 2,197,000	r 2,469,000	2,481,000	2,390,000
Ethiopia (d) .. ..	31,304	32,647	43,000	32,000	43,000	94,000
Morocco .. ..	570,700	620,400	687,200	747,300	911,800	777,900
Mozambique .. ..	219,000	208,828	176,335	164,849	178,675	217,000
Senegal .. ..	165,100	179,100	180,300	186,600	201,700	178,500
Sudan .. ..	119,000	82,000	84,000	114,000	90,000	79,000
Tunisia .. ..	398,600	324,000	356,819	355,000	448,000	446,000
South Africa ..	2,662,000	2,557,420	2,616,870	2,838,820	3,401,610	3,819,890
Costa Rica .. ..	—	—	—	—	29,839	112,468
Cuba .. ..	800,000	857,000	767,000	799,000	n.a.	n.a.
Dominican Republic	166,984	233,023	238,912	224,566	292,817	208,474
Guatemala (f) ..	96,000	104,000	98,000	128,000	152,000	189,000
Haiti .. ..	52,130	49,104	55,712	49,687	50,587	41,000
Honduras .. ..	31,000	36,300	54,060	59,000	72,000	93,000
Mexico .. ..	3,040,339	2,987,149	3,299,000	r 3,703,000	4,393,000	4,133,000
Nicaragua .. ..	31,787	38,402	45,181	52,962	60,088	65,028
Panama Republic ..	107,000	112,000	120,000	140,000	123,000	162,000
Salvador .. ..	84,970	73,568	64,082	77,030	88,215	79,485
United States (a)—						
Portland cement ..	53,547,900	54,404,800	56,481,900	59,176,900	61,877,700	} 65,271,000
Prepared masonry cement (b) .. ..	2,442,800	2,398,500	2,518,500	2,602,800	2,765,900	
Natural, slag and hydraulic lime cements	95,300	37,800	73,900	59,900	46,200	
Argentina .. ..	2,597,191	2,860,355	2,901,866	2,479,318	2,845,206	3,253,266
Bolivia .. ..	12,166	43,809	48,646	63,382	62,514	64,786
Brazil .. ..	4,403,623	4,636,341	4,913,398	4,803,940	5,123,520	5,138,377
Chile .. ..	822,223	r 890,518	r 1,128,922	r 1,150,137	1,246,673	1,169,148
Colombia .. ..	1,363,048	1,567,000	1,718,393	1,806,000	1,941,000	2,837,303
Ecuador .. ..	197,640	215,704	191,005	254,313	284,000	(f) 320,000
Paraguay .. ..	14,000	16,000	16,000	18,000	23,000	29,000
Peru .. ..	590,219	590,218	689,503	742,147	815,000	1,007,000
Uruguay .. ..	408,000	383,000	368,000	335,000	406,000	424,000
Venezuela .. ..	1,463,523	1,489,526	1,485,053	1,555,255	1,820,384	2,078,492
Afghanistan (c) ..	36,000	40,000	59,000	101,000	123,000	167,000
Burma .. ..	44,194	38,945	52,440	122,000	129,000	(e) 120,000
Cambodia .. ..	—	—	—	—	n.a.	50,000
China .. ..	12,500,000	7,900,000	7,900,000	9,842,000	(e) 10,334,000	e 11,000,000
Formosa .. ..	1,160,000	1,480,000	1,840,000	2,210,000	2,320,000	2,410,000
Indonesia .. ..	381,000	438,000	497,000	325,000	432,000	(e) 360,000

(a) Including Puerto Rico.

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

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

(d) Years ended September 10 of that stated.

(e) United States Bureau of Mines' estimate.

(f) Estimated.

(g) Included with Spain.

PRODUCTION OF CEMENT (cont.)

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Iran (c) .. .. .	784,666	733,000	(a) 730,000	(a)730,000	(a)730,000	(a)730,000
Iraq .. .. .	786,836	906,160	878,247	909,450	1,006,660	1,265,000
Israel .. .. .	792,785	832,918	938,540	1,010,000	1,080,000	1,240,000
Japan .. .. .	22,183,000	24,243,000	28,332,000	29,475,000	32,460,000	32,173,000
Jordan .. .. .	162,206	219,602	231,561	280,772	302,929	300,272
Korea (South) .. .. .	424,052	514,575	777,270	766,006	1,222,496	1,588,648
Korea (North) .. .. .	2,249,000	2,226,000	2,338,000	2,490,000	2,569,000	2,362,000
Lebanon .. .. .	840,254	860,639	609,644	882,457	867,244	950,000
Philippine Republic .. .. .	782,461	1,002,951	945,605	936,295	1,182,148	1,505,000
Saudi Arabia .. .. .	(b) 89,000	103,000	150,000	183,000	236,000	260,000
Syria .. .. .	481,000	531,000	597,000	674,000	625,000	822,000
Thailand .. .. .	518,000	797,000	950,000	980,000	1,053,635	1,228,286
Turkey .. .. .	2,005,611	1,995,971	2,286,000	2,655,186	2,893,445	3,193,189
Vietnam (South) .. .. .	—	—	—	—	74,000	192,000
Vietnam (North) .. .. .	399,300	(b)450,000	(b)455,000	483,000	639,000	740,000
TOTAL (a) .. .. .	278,000,000	294,000,000	316,000,000	334,000,000	366,000,000	382,000,000
WORLD'S TOTAL (a)	311,000,000	329,000,000	352,000,000	371,000,000	408,000,000	427,000,000

(a) Estimated.

(b) United States Bureau of Mines' estimate.

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

**CHINA CLAY**  
**PRODUCTION OF CHINA CLAY**

Long tons

Producing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom .. .. .	1,638,282	1,717,669	1,696,569	1,898,000	2,033,000	2,209,000
Kenya .. .. .	1,036	729	1,155	6,558	1,268	1,687
Nigeria .. .. .	4	—	5	15	3	25
Rhodesia .. .. .	5,905	18,202	—	10,929	18,750	<i>n.a.</i>
Swaziland .. .. .	—	52	2,449	1,975	307	741
Tanzania .. .. .	219	155	156	179	109	—
Ceylon .. .. .	—	—	—	—	1,502	803
Hong Kong .. .. .	6,663	8,430	6,374	5,019	5,043	4,712
India .. .. .	r 372,327	r 377,407	r 381,128	418,179	428,022	490,546
Malaya .. .. .	1,223	1,571	3,459	1,176	1,420	1,562
Pakistan .. .. .	73	706	—	—	968	1,269
Australia .. .. .	48,195	51,088	36,070	44,544	45,118	<i>n.a.</i>
<b>OTHER COUNTRIES</b>						
Austria (crude) .. .. .	317,991	338,461	331,080	343,829	362,305	322,503
Belgium .. .. .	39,711	<i>n.a.</i>	50,887	49,920	<i>n.a.</i>	<i>n.a.</i>
Czechoslovakia .. .. .	269,000	295,000	314,000	316,000	308,056	317,000
Denmark (c)—						
Crude .. .. .	6,205	7,649	7,278	11,871	<i>n.a.</i>	6,739
Washed and pressed .. .. .	4,826	4,169	3,254	<i>n.a.</i>	<i>n.a.</i>	—
Washed waste .. .. .	5,774	7,562	9,977	5,069	<i>n.a.</i>	11,492
France .. .. .	134,000	143,000	133,000	130,000	123,000	130,000
Germany (Federal) .. .. .	338,767	367,579	377,020	381,620	403,010	393,270
Greece .. .. .	26,000	24,800	34,406	29,552	<i>n.a.</i>	<i>n.a.</i>
Hungary .. .. .	42,803	41,694	40,173	43,535	49,543	53,000
Italy—						
Crude .. .. .	63,024	86,008	r 86,296	97,436	62,744	72,319
Kaolinic earth .. .. .	45,312	71,138	r 119,283	99,981	<i>n.a.</i>	<i>n.a.</i>
Portugal—						
Crude and washed .. .. .	46,126	48,894	42,803	37,385	37,688	38,249
Spain .. .. .	(e) 110,589	(e) 124,889	(e) 165,143	(e) 204,330	(f) 138,701	<i>n.a.</i>
Sweden (b) .. .. .	26,307	26,621	25,814	31,222	43,342	41,000
Yugoslavia .. .. .	<i>n.a.</i>	<i>n.a.</i>	4,500	4,000	5,000	5,000
Angola .. .. .	—	—	30	150	<i>n.a.</i>	<i>n.a.</i>
Egypt .. .. .	20,000	26,751	14,370	20,677	61,804	47,020
Eritrea .. .. .	1,500	3,500	600	<i>n.a.</i>	<i>n.a.</i>	(g) 203
Morocco .. .. .	—	—	—	—	—	967
Mozambique .. .. .	113	118	177	5	10	150
South Africa .. .. .	26,073	23,637	28,005	33,404	38,835	40,740
Mexico .. .. .	72,808	59,700	<i>n.a.</i>	45,826	63,211	79,854
United States (a) .. .. .	2,437,903	2,446,264	2,676,926	2,824,619	2,974,412	3,217,815
Argentina .. .. .	40,383	35,840	r 38,096	r 35,332	41,711	<i>n.a.</i>
Chile .. .. .	8,000	14,000	29,983	36,316	45,237	29,625
Colombia .. .. .	20,000	50,000	70,000	75,000	79,416	82,000
Ecuador .. .. .	311	536	371	346	474	416
Peru .. .. .	592	459	344	r 52	325	384
Iran (d) .. .. .	4,200	3,000	<i>n.a.</i>	<i>n.a.</i>	6,860	<i>n.a.</i>
Japan .. .. .	20,943	26,514	70,725	97,662	105,655	91,889
Korea (South) .. .. .	50,422	50,369	37,590	51,437	59,580	71,103
Vietnam (South) .. .. .	2,000	<i>n.a.</i>	4,000	4,400	2,038	<i>n.a.</i>

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

(a) Sold or used by producers.

(e) Crude.

(b) Sales.

(f) Washed or equivalent.

(c) Production in major establishments only.

(g) United States Bureau of Mines' estimate.

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

## EXPORTS OF CHINA CLAY

Long tons

Exporting Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom .. .. .	1,003,923	1,117,440	1,100,672	1,251,387	1,360,813	1,482,160
Tanzania .. .. .	70	74	90	51	10	—
Hong Kong .. .. .	r 6,282	r 5,453	r 4,658	r 4,122	2,900	3,665
India (a) .. .. .	217	744	474	208	698	147
Malaya .. .. .	97	79	70	74	23	67
<b>OTHER COUNTRIES</b>						
Austria .. .. .	31,712	35,091	38,465	38,538	34,401	30,180
Belgium-Luxemburg						
E.U. .. .. .	76	133	116	323	71	400
Czechoslovakia .. .. .	142,000	148,000	150,000	160,000	163,000	167,000
Denmark .. .. .	1,294	1,249	1,068	204	73	47
France .. .. .	39,209	45,559	51,523	51,137	55,056	55,223
Germany (Federal) .. .. .	26,595	33,300	37,793	51,476	55,866	54,508
Germany (East) .. .. .	65,110	61,277	63,113	63,158	61,722	68,878
Greece .. .. .	1,842	3,407	7,967	n.a.	n.a.	n.a.
Italy .. .. .	135	93	108	267	345	528
Netherlands .. .. .	597	226	44	96	209	114
Portugal .. .. .	18,152	19,170	15,490	12,799	10,792	10,420
Spain .. .. .	6,837	13,717	9,119	3,312	9,380	14,050
Sweden .. .. .	18	159	10	11	62	120
U.S.S.R. .. .. .	n.a.	4,921	394	3,149	98	1,100
Morocco .. .. .	—	7	—	—	272	8
South Africa .. .. .	n.a.	n.a.	n.a.	n.a.	263	396
United States .. .. .	71,397	88,201	106,152	99,747	135,469	172,210
Argentina .. .. .	—	—	—	59	49	10
Brazil .. .. .	108	332	98	197	710	1,383
Japan .. .. .	1,385	2,390	5,142	2,998	2,736	2,790
Korea (South) .. .. .	12,117	12,063	7,619	13,626	13,170	20,073

(a) Years ended March 31 following that stated.

## IMPORTS OF CHINA CLAY

Long tons

Importing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Canada .. .. .	119,273	129,879	139,688	155,141	151,557	173,184
Hong Kong .. .. .	<i>r (b) 173</i>	<i>r (b) 185</i>	<i>r 251</i>	<i>r (b) 98</i>	<i>(b) 197</i>	<i>(b) 16</i>
India .. .. .	7,286	10,501	6,588	6,082	5,690	4,325
Malaya .. .. .	119	212	237	395	455	707
Pakistan .. .. .	3,737	5,631	9,065	1,416	2,916	<i>n.a.</i>
Australia .. .. .	9,093	14,890	12,389	22,119	20,918	22,321
New Zealand .. .. .	1,914	1,978	1,693	<i>(d) 1,569</i>	<i>(d) 2,763</i>	<i>n.a.</i>
<b>OTHER COUNTRIES</b>						
Austria .. .. .	6,745	7,173	8,546	9,312	12,773	18,775
Belgium-Luxemburg						
E.U. .. .. .	45,711	43,810	45,537	51,494	57,491	63,541
Denmark .. .. .	28,261	30,152	30,932	31,093	34,788	30,799
Finland .. .. .	91,471	101,276	105,865	111,736	132,614	147,406
France .. .. .	122,712	125,386	149,566	181,302	201,772	206,291
Germany (Federal) .. .. .	267,868	287,664	294,688	333,271	358,831	375,447
Hungary .. .. .	41,004	46,155	50,492	61,854	59,483	67,371
Italy .. .. .	158,135	183,183	202,408	224,047	275,577	264,174
Netherlands .. .. .	111,578	108,386	100,105	110,399	128,128	126,030
Norway .. .. .	47,152	56,253	48,384	66,739	69,586	62,731
Poland .. .. .	70,000	72,600	<i>n.a.</i>	79,700	76,500	<i>n.a.</i>
Portugal .. .. .	169	802	222	277	252	268
Spain .. .. .	3,231	3,463	7,242	3,308	6,050	7,435
Sweden .. .. .	116,392	121,770	128,948	136,444	159,821	162,699
Yugoslavia .. .. .	6,883	8,386	16,944	20,486	25,461	27,127
Algeria .. .. .	3,700	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Angola .. .. .	17	40	37	97	63	40
Morocco .. .. .	2,395	1,885	1,446	4,247	1,807	2,670
Mozambique .. .. .	19	38	134	87	125	108
South Africa (a) .. .. .	3,678	3,911	4,394	5,058	1,174	<i>n.a.</i>
Costa Rica .. .. .	1,822	381	855	1,203	101	209
Guatemala .. .. .	2,369	1,219	241	301	275	188
Mexico .. .. .	11,345	7,744	8,299	9,943	9,193	<i>n.a.</i>
United States .. .. .	113,677	118,251	99,954	95,717	104,568	81,925
Argentina .. .. .	5,121	6,113	5,330	6,353	10,452	9,213
Brazil .. .. .	122	399	195	233	110	93
Chile .. .. .	63	113	113	290	<i>n.a.</i>	<i>n.a.</i>
Colombia .. .. .	762	2,205	3,078	3,368	3,180	1,964
Ecuador .. .. .	<i>n.a.</i>	35	29	56	5	<i>n.a.</i>
Peru .. .. .	478	401	552	555	1,827	<i>n.a.</i>
Uruguay .. .. .	2,276	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Venezuela .. .. .	2,914	4,135	6,306	4,078	5,976	5,345
Indonesia .. .. .	1,640	2,722	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Iran (c) .. .. .	186	229	281	191	519	346
Japan .. .. .	31,687	36,178	35,407	48,291	52,920	59,119
Philippine Republic .. .. .	3,075	2,847	1,331	2,237	2,812	<i>n.a.</i>
Turkey .. .. .	15	4	1	66	7	7

(a) Including Cornish or China stone.

(c) Years ended March 20 following that stated.

(b) Excess of re-exports.

(d) Year ended June 30 of that stated.

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

Long tons

Producing Country	Estimated Cr <sub>2</sub> O <sub>3</sub> content						1965	Estimated Cr <sub>2</sub> O <sub>3</sub> content				1965
	1960	1961	1962	1963	1964	1965		1960	1961	1962	1963	
<b>COMMONWEALTH COUNTRIES</b>												
Rhodesia ..	596,791	527,581	453,294	368,209	440,510	j 625,062	286,000	253,000	218,000	177,000	211,000	300,000
Sierra Leone ..	5,378	—	11,269	2,738	—	—	2,000	—	5,000	1,000	—	—
Cyprus (a) ..	19,977	17,698	6,435	4,831	—	4,911	9,000	8,000	3,000	2,000	—	2,000
India ..	r 105,208	r 48,015	r 65,000	64,015	34,417	58,730	50,500	23,000	31,200	30,700	16,500	28,200
Pakistan (c) ..	18,094	25,103	21,135	14,306	13,290	14,261	9,000	12,000	10,000	7,000	6,000	7,000
Australia ..	529	—	369	160	72	—	265	—	185	80	40	—
TOTAL ..	r 745,977	r 618,397	r 557,502	454,259	488,289	703,000	—	—	—	—	—	—
<b>OTHER COUNTRIES</b>												
Albania ..	281,500	230,000	250,000	289,000	301,976	e 310,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Greece ..	44,969	76,624	55,359	50,371	n.a.	n.a.	20,000	35,000	25,000	25,000	n.a.	n.a.
U.S.S.R. (e) ..	902,000	906,000	1,130,000	1,210,000	1,300,000	1,400,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Yugoslavia ..	98,993	106,418	95,512	92,289	86,963	78,590	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Egypt ..	295	1,366	—	—	—	—	n.a.	n.a.	—	—	—	—
Malagasy Republic ..	—	10,300	19,000	11,000	11,584	2,346	—	n.a.	n.a.	n.a.	—	—
South Africa ..	759,751	883,683	898,369	779,654	836,132	927,230	340,000	400,000	400,000	350,000	380,000	420,000
Sudan ..	—	—	8,000	17,000	(b) 17,000	(e) 30,000	—	—	n.a.	n.a.	n.a.	n.a.
Cuba ..	(h) 29,262	(e) 24,600	(e) 35,000	(e) 49,800	n.a.	n.a.	—	—	n.a.	n.a.	n.a.	n.a.
Guatemala ..	178	100	38	—	—	—	n.a.	n.a.	n.a.	n.a.	—	—
United States (f) ..	(g) 95,282	(g) 73,000	—	—	—	—	37,000	28,000	—	—	—	—
Brazil ..	5,577	15,212	24,447	43,344	25,384	31,543	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Colombia ..	—	182	138	108	394	260	—	—	n.a.	n.a.	—	—
Iran (d) ..	67,000	72,600	108,000	96,000	e 120,000	e 150,000	32,000	35,000	52,000	46,000	58,000	72,000
Japan ..	66,423	69,063	57,165	43,040	43,261	41,173	23,400	24,400	20,300	15,100	15,000	14,000
Philippine Republic ..	722,840	630,189	522,896	451,870	460,687	545,764	248,000	218,000	178,000	154,000	157,000	185,000
Turkey ..	472,045	(f) 396,369	461,739	397,511	406,167	558,106	221,000	190,000	220,000	190,000	190,000	270,000
New Caledonia ..	38,542	36,083	15,211	—	—	—	20,000	19,000	8,000	—	—	—
TOTAL ..	3,600,000	3,500,000	3,700,000	r 3,500,000	3,700,000	4,200,000	—	—	—	—	—	—
WORLD'S TOTAL ..	4,300,000	4,100,000	4,300,000	4,000,000	4,200,000	4,900,000	—	—	—	—	—	—

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

(a) Figures relate to saleable production.

(b) Estimated.

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

(d) Shipments from mine.

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

(f) Including saleable production only of metallurgical chromite. (j) Exports.

(g) West Pakistan.

(h) United States Bureau of Mines' estimate.

(i) Imports into the United States.

## EXPORTS OF CHROME ORE, ETC.

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—						
Chromium metal ..	1,025	315	267	442	616	597
Rhodesia (c)—						
Ore .. .. .	482,715	424,993	385,430	275,217	448,477	625,062
Ferro-chrome .. ..	9,221	8,920	7,839	9,838	22,332	20,939
Sierra Leone—						
Ore .. .. .	14,719	8,988	9,357	8,700	—	—
Canada—						
Ferro-chrome .. ..	4,117	1,466	5,895	2,598	154	183
Cyprus—						
Ore and concentrates ..	14,020	18,820	9,526	400	9,150	2
India (a)—						
Ore .. .. .	29,861	41,034	17,241	11,469	30,468	25,025
Pakistan—						
Ore .. .. .	10,880	12,942	9,648	3,893	22,398	<i>n.a.</i>
OTHER COUNTRIES						
Albania—						
Ore .. .. .	<i>r</i> 244,600	<i>r</i> 230,100	<i>r</i> 264,900	<i>r</i> 243,900	<i>n.a.</i>	292,900
Austria—						
Ore .. .. .	246	623	632	407	635	841
France—						
Chromium metal .. ..	527	409	189	273	182	312
Ferro-chrome .. ..	18,526	16,218	15,070	17,605	17,717	19,419
Germany (Federal)—						
Ore .. .. .	521	7,190	778	1,445	1,497	1,718
Chromium metal .. ..	143	174	47	54	52	39
Greece—						
Ore .. .. .	28,595	27,945	19,228	15,085	22,153	29,051
Italy—						
Ore .. .. .	2	—	—	1,476	2,038	—
Ferro-chrome .. ..	7,488	10,797	2,276	1,942	4,119	7,011
Netherlands—						
Ore .. .. .	289	412	1,103	1,453	1,252	986
Norway—						
Ferro-chrome .. ..	34,097	21,252	16,797	27,043	33,672	30,384
Ferro-silico-chrome ..	6,950	3,158	2,631	4,692	8,106	4,086
Sweden—						
Ore .. .. .	3	—	—	<i>n.a.</i>	—	—
Ferro-chrome .. ..	15,592	18,656	17,057	22,613	20,231	18,685
U.S.S.R.—						
Ore .. .. .	420,300	431,000	464,500	558,000	652,500	736,000
Ferro-chrome .. ..	21,800	21,400	15,700	3,100	15,200	24,400
Yugoslavia—						
Ore and concentrates ..	19,675	5,538	29,668	23,142	23,508	13,443
Ferro-chrome .. ..	8,822	7,303	5,763	7,184	6,906	9,948
Malagasy Republic—						
Ore .. .. .	—	4,925	18,706	12,795	6,892	7,677
South Africa—						
Ore .. .. .	743,827	846,685	779,084	595,090	628,122	690,143
Cuba—						
Ore .. .. .	24,400	29,298	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
United States—						
Ore .. .. .	4,629	9,343	2,398	8,684	5,684	6,292
Chromium metal .. ..	56	13	16	10	41	198
Ferro-chrome .. ..	13,918	7,004	2,745	2,354	8,957	10,716
Iran (b)—						
Ore .. .. .	36,789	66,601	72,593	89,804	122,512	157,325

(a) Years ended March 31 following that stated.

(b) Years ended March 20 following that stated.

(c) Figures for years 1960 to 1963 relate to Rhodesia and Nyasaland.

EXPORTS OF CHROME ORE, ETC. (cont.)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES (cont.)						
Japan—						
Ore and concentrates ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,513
Ferro-chrome .. ..	14,533	15,911	12,288	7,838	3,800	23,358
Philippine Republic—						
Ore and concentrates ..	783,346	621,466	435,306	476,158	578,000	536,678
Turkey—						
Ore .. ..	380,130	382,541	344,054	209,305	338,700	417,526
New Caledonia—						
Ore .. ..	44,154	21,750	14,773	17,672	5,899	—



## IMPORTS OF CHROME ORE, ETC.

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore .. .. .	292,169	256,918	116,341	158,971	222,235	201,766
Ferro-chrome .. ..	46,606	42,358	24,510	34,458	47,254	60,994
Ferro-silicon-chrome ..	3,595	2,984	3,043	3,848	4,473	4,395
Zambia—						
Ore .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	395	279
Canada—						
Ore .. .. .	52,699	63,632	64,258	44,334	<i>n.a.</i>	<i>n.a.</i>
(Cr content) .. ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	18,566	31,614
Ferro-chrome .. ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	9,359	13,693
India—						
Ore .. .. .	4,804	2,806	1,500	—	—	1
Ferro-chrome (a) ..	410	803	656	477	1,280	861
Australia—						
Ore .. .. .	21,259	17,049	8,538	16,128	32,212	8,079
Ferro-chrome .. ..	5,714	4,133	1,974	2,713	2,993	5,821
OTHER COUNTRIES						
Austria—						
Ore .. .. .	58,899	82,060	61,551	46,413	49,480	40,572
Ferro-chrome .. ..	14,009	11,660	9,523	12,073	15,037	15,240
Belgium-Luxemburg						
E.U.—						
Ore .. .. .	697	1,107	449	1,015	1,412	972
Chromium metal ..	14	9	14	71	28	14
Ferro-chrome and silico-						
chrome .. .. .	4,258	4,161	4,672	4,469	6,950	6,325
Denmark—						
Ferro-chrome .. ..	450	437	413	308	347	414
Finland—						
Ferro-chrome .. ..	1,402	1,649	1,153	995	457	1,340
France—						
Ore .. .. .	185,677	194,624	158,279	151,235	190,339	220,747
Ferro-chrome .. ..	285	361	942	889	2,252	2,627
Germany (Federal)—						
Ore .. .. .	355,881	319,040	224,520	171,740	232,954	300,734
Chromium metal ..	40	48	38	74	67	70
Germany (East)—						
Ore (b) .. .. .	25,630	25,740	34,310	16,250	29,791	29,607
Hungary—						
Ore .. .. .	25,328	28,899	26,323	35,373	29,213	<i>n.a.</i>
Ferro-chrome .. ..	2,260	3,419	4,035	5,632	4,215	4,556
Italy—						
Ore .. .. .	69,885	74,341	55,611	44,031	78,269	98,684
Chromium metal ..	19	19	18	29	21	39
Ferro-chrome .. ..	15,091	14,157	10,217	14,753	16,710	14,673
Netherlands—						
Ore .. .. .	1,235	844	2,302	2,657	2,728	4,491
Chromium metal ..	5	10	14	16	17	29
Ferro-chrome .. ..	499	302	438	376	820	2,208
Norway—						
Ore .. .. .	92,332	99,934	49,946	31,755	107,660	75,383
Poland—						
Ore .. .. .	99,100	123,000	<i>n.a.</i>	84,000	115,500	<i>n.a.</i>
Spain—						
Ore .. .. .	<i>n.a.</i>	16,280	19,348	14,889	18,001	29,108
Ferro-chrome .. ..	581	1,314	1,656	1,873	2,143	1,899
Sweden—						
Ore .. .. .	138,723	105,184	104,136	113,336	149,654	139,237
Chromium metal ..	115	75	32	105	162	105
Ferro-chrome .. ..	13,164	7,288	3,060	4,075	7,516	23,407

(a) Years ended March 31 following that stated.

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

## IMPORTS OF CHROME ORE, ETC. (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES (cont.)						
Yugoslavia—						
Ore .. .. .	22,715	15,638	36,282	58,040	59,031	53,855
South Africa—						
Ore .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	47,795	<i>n.a.</i>
Mexico—						
Ferro-chrome .. .. .	222	674	630	853	573	<i>n.a.</i>
United States—						
Ore .. .. .	1,238,055	1,186,724	1,290,692	1,242,068	1,274,796	1,205,949
( $Cr_2O_3$ content)	509,881	505,233	547,832	540,490	576,512	550,934
Ferro-chrome .. .. .	44,096	24,834	32,425	25,931	23,321	49,216
( $Cr$ content)	30,523	16,694	22,144	17,808	15,800	33,001
Metal and alloys .. .. .	811	618	578	860	654	902
Brazil—						
Ore .. .. .	8,102	1,719	4,148	—	—	—
Ferro-chrome .. .. .	585	881	895	985	472	243
Chile—						
Ferro-chrome .. .. .	25	97	60	174	<i>n.a.</i>	<i>n.a.</i>
Formosa—						
Ore .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	156	<i>n.a.</i>	266
Japan—						
Ore .. .. .	274,723	319,367	250,856	222,938	390,166	354,609
Ferro-chrome .. .. .	2	1,006	530	2,008	5,581	492
Turkey—						
Ferro-chrome .. .. .	14	16	46	56	20	—

# COAL, COKE AND BY-PRODUCTS

## PRODUCTION OF COAL

(Including Brown Coal and Lignite)

Long tons

Producing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Great Britain—						
Mined—						
Anthracite .. ..	2,875,200	2,779,800	3,136,200	3,327,000	3,468,200	2,941,000
Bituminous .. ..	183,176,300	179,157,500	186,192,300	186,329,700	183,349,300	177,226,000
Opencast—						
Anthracite .. ..	719,800	767,400	766,100	832,200	1,129,900	1,262,000
Bituminous .. ..	6,832,900	7,760,600	7,341,500	5,305,700	5,679,600	6,070,300
Northern Ireland—						
Bituminous .. ..	4,965	12,527	12,165	9,115	6,831	4,542
Nigeria—						
Sub-bituminous .. ..	561,995	597,365	623,948	586,130	663,816	728,328
Rhodesia—						
Bituminous .. ..	3,503,103	3,024,371	2,781,230	2,697,222	2,720,646	2,989,692
Swaziland—						
Anthracite .. ..	11,469	964	—	—	4,009	29,493
Tanzania—						
Bituminous .. ..	2,264	2,302	3,024	2,051	746	2,000
Canada—						
Bituminous .. ..	6,517,646	6,095,762	5,831,511	6,292,719	6,446,761	6,223,086
Sub-bituminous .. ..	1,375,515	1,215,804	1,336,760	1,477,047	1,879,386	2,281,029
Lignite .. ..	1,938,212	1,972,188	2,014,559	1,672,818	1,780,392	1,842,797
India—						
Bituminous .. ..	51,762,147	55,180,089	60,400,763	64,914,000	61,454,000	66,100,000
Lignite .. ..	46,204	62,758	207,420	983,449	1,544,392	2,263,962
Pakistan—						
Lignite .. ..	817,197	900,860	979,327	1,223,000	1,195,000	1,210,000
Malaya—						
Sub-bituminous .. ..	6,847	—	—	—	—	—
Australia—						
Semi-anthracite .. ..	50,095	58,579	69,301	60,603	79,000	67,000
Bituminous .. ..	20,640,884	21,991,221	22,006,032	22,268,206	24,477,000	28,195,000
Sub-bituminous .. ..	1,877,981	1,956,258	2,394,186	2,527,531	2,844,656	3,142,000
Brown coal .. ..	14,967,202	16,279,569	17,137,438	18,456,642	19,035,000	20,712,000
New Zealand—						
Anthracite .. ..	504	169	653	233	147	65
Bituminous .. ..	799,621	756,363	700,427	660,869	681,683	663,222
Sub-bituminous .. ..	2,051,703	2,011,546	1,700,856	1,919,892	2,038,253	1,837,884
Lignite .. ..	160,215	156,647	148,260	161,417	156,889	157,863
<b>TOTAL .. ..</b>	<b>300,700,000</b>	<b>302,740,600</b>	<b>315,784,000</b>	<b>321,707,000</b>	<b>320,636,000</b>	<b>326,049,000</b>
Irish Republic—						
Anthracite including dust .. ..	128,170	133,887	129,963	146,751	150,665	116,000
Semi-bituminous and other coal .. ..	76,166	70,377	74,739	82,517	76,200	65,000
<b>OTHER COUNTRIES</b>						
Albania—						
Brown coal and lignite .. ..	285,000	290,000	296,000	248,000	287,000	<i>n.a.</i>
Austria—						
Bituminous .. ..	129,951	104,540	97,786	101,887	101,697	57,685
Brown coal .. ..	5,879,024	5,571,311	5,621,385	5,957,434	5,669,741	5,364,275
Belgium—						
Anthracite .. ..	5,800,930	5,433,390	5,638,991	} 21,079,661	<b>20,968,033</b>	19,473,620
Bituminous .. ..	16,313,510	15,762,410	15,229,826			

(a) Sales for year ended August 31, 1965.

PRODUCTION OF COAL (cont.)

Long tons

Producing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
<b>Bulgaria—</b>						
Anthracite and bituminous .. ..	560,000	580,000	620,000	646,000	589,000	543,000
Brown coal and lignite..	16,310,000	17,760,000	19,890,000	20,918,000	23,346,000	24,082,000
<b>Czechoslovakia—</b>						
Bituminous .. ..	25,800,000	25,819,000	26,720,000	27,735,000	27,756,000	27,293,000
Brown coal .. ..	54,599,000	61,088,000	64,778,000	68,231,000	70,343,000	67,952,000
Lignite .. ..	2,882,000	3,184,000	3,609,000	3,914,000	4,068,000	4,108,000
<b>Denmark—</b>						
Lignite .. ..	2,273,000	r 2,455,000	r 2,516,000	r 2,472,000	2,160,000	(c)2,000,000
<b>France—</b>						
Anthracite and bituminous .. ..	55,082,224	51,535,660	51,542,439	47,007,259	52,204,523	50,537,000
Lignite .. ..	2,242,583	2,860,683	2,836,391	2,432,290	2,208,653	2,647,000
<b>Germany—</b>						
<b>Federal Republic (b)—</b>						
Anthracite .. ..	6,680,378	7,135,369	7,942,384	8,822,263	9,342,760	} 132,983,100
Bituminous (a) ..	133,408,633	133,396,479	131,009,800	131,099,458	130,659,149	
Pechkohle .. ..	1,754,782	1,735,060	1,732,211	1,812,180	1,839,293	1,707,818
Brown coal .. ..	94,620,781	95,660,108	99,581,347	104,975,646	109,190,748	100,297,899
<b>East Germany—</b>						
Bituminous .. ..	2,678,000	2,629,000	2,534,000	2,444,000	2,303,000	2,177,000
Brown coal .. ..	221,904,000	233,184,000	243,091,000	250,204,000	252,868,000	247,332,000
<b>Greece—</b>						
Lignite .. ..	2,453,000	2,464,000	2,651,955	r 3,470,089	3,495,000	4,424,000
<b>Hungary—</b>						
Bituminous .. ..	2,802,465	3,022,096	3,287,982	3,651,202	4,060,242	4,293,000
Brown coal .. ..	19,139,598	20,065,809	20,322,146	21,586,504	22,009,507	21,840,000
Lignite .. ..	4,162,810	4,642,055	4,588,627	4,760,046	4,980,300	4,808,000
<b>Italy—</b>						
Anthracite .. ..	19,228	23,620	16,300	13,800	9,212	5,504
Bituminous .. ..	706,059	706,264	665,328	563,005	454,863	377,807
Brown coal .. ..	781,887	1,501,370	1,747,896	1,343,658	1,181,669	1,002,303
<b>Netherlands—</b>						
Bituminous .. ..	12,301,091	12,421,637	11,390,000	11,327,000	11,299,000	11,265,000
Brown coal .. ..	3,908	—	—	—	—	—
<b>Poland—</b>						
Bituminous .. ..	102,800,000	104,900,000	107,900,000	111,400,000	115,500,000	117,000,000
Brown coal .. ..	9,180,000	10,175,000	10,916,000	15,102,000	19,960,000	22,200,000
<b>Portugal—</b>						
Anthracite .. ..	428,000	447,141	398,714	409,000	437,000	421,000
Brown coal .. ..	154,000	155,613	150,182	140,000	99,000	89,000
<b>Roumania—</b>						
Anthracite and bituminous ..	325,000	340,000	370,000	390,000	(e)	(e)
Lignite .. ..	3,095,000	3,196,000	3,625,000	3,990,000	4,588,000	5,375,000
Brown coal .. ..	4,614,000	5,030,000	5,443,000	5,725,000	(f)6,359,000	(f)6,529,000
<b>Spain—</b>						
Anthracite .. ..	2,474,638	2,555,714	2,601,083	2,729,021	2,638,154	} 12,679,000
Bituminous .. ..	11,091,054	11,022,547	9,893,054	9,975,270	9,365,202	
Lignite .. ..	1,734,306	2,056,400	2,448,857	2,550,084	2,562,745	
<b>Spitzbergen—</b>						
<b>Bituminous</b>						
Norwegian mines	397,240	363,224	465,380	376,359	435,092	418,903
Russian mines (d)	472,808	391,642	361,007	364,484	n.a.	n.a.

(a) Including Stockheim hard coal.

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

Hard coal: 1960—903,590; 1961—814,620; 1962—705,739; 1963—608,898; 1964—448,281; 1965—341,242.

Brown coal: 1960—76,638; 1961—71,828; 1962—70,788; 1963—13; 1964—96; 1965—nil.

(c) Estimated.

(d) Exports.

(e) Included with brown coal.

(f) Including anthracite and bituminous.

PRODUCTION OF COAL (cont.)

Long tons

Producing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Sweden—						
Bituminous .. ..	246,565	197,272	145,848	97,837	83,147	57,900
U.S.S.R.—						
Bituminous and						
anthracite .. ..	369,004,000	371,065,000	380,329,000	388,888,000	402,412,000	420,000,000
Lignite .. ..	136,077,000	131,407,000	128,907,000	134,433,000	142,835,000	150,000,000
Yugoslavia—						
Bituminous .. ..	1,263,000	1,292,000	1,169,000	1,267,000	1,290,000	1,173,000
Brown coal and lignite	20,092,000	22,401,000	23,133,000	25,672,000	27,805,000	28,333,000
Algeria (Sahara)—						
Bituminous and						
anthracite .. ..	116,283	76,319	52,000	39,000	45,000	44,000
Congo Republic—						
Bituminous .. ..	160,000	71,621	75,049	90,400	98,000	112,000
Egypt—						
Bituminous .. ..	—	—	—	—	—	20,000
Malagasy Republic—						
Bituminous .. ..	—	—	—	2,000	3,800	1,786
Morocco—						
Anthracite .. ..	405,983	403,700	360,000	397,800	400,000	411,900
Mozambique—						
Bituminous .. ..	265,367	315,791	292,903	278,341	241,000	233,748
South Africa—						
Anthracite .. ..	} 37,570,611	38,939,978	40,623,162	41,783,891	44,207,819	{ 1,226,985
Bituminous .. ..						
Greenland—						
Bituminous .. ..	28,000	31,000	26,000	39,000	24,000	20,000
Mexico—						
Bituminous .. ..	1,748,000	1,789,000	1,863,000	2,038,000	2,104,000	2,093,000
United States—						
Anthracite .. ..	16,801,287	15,577,178	15,083,612	16,310,164	15,343,081	13,273,174
Bituminous .. ..	368,541,320	357,106,502	374,191,126	407,342,048	432,184,000	454,502,000
Lignite .. ..	2,451,846	2,694,213	2,727,914	2,415,251	2,634,000	2,717,000
Argentina—						
Lignite .. ..	r 263,650	r 231,882	281,200	246,400	326,800	367,900
Brazil—						
Bituminous and lignite	2,293,287	2,351,863	2,468,371	2,783,781	2,884,069	3,087,612
Chile—						
Bituminous .. ..	r 1,447,725	r 1,735,458	r 1,824,910	r 1,757,760	1,754,349	1,700,000
Columbia—						
Bituminous .. ..	2,600,000	2,800,000	3,000,000	3,100,000	3,000,000	3,000,000
Peru—						
Anthracite .. ..	30,707	20,592	22,114	r 9,448	30,000	} 89,000
Bituminous .. ..	128,960	143,877	138,162	r 119,639	113,000	
Venezuela—						
Bituminous .. ..	34,730	30,134	27,002	41,679	36,011	30,803
Afghanistan—						
Bituminous .. ..	46,000	67,000	110,000	96,000	111,000	144,000
Burma .. ..	112	1,586	2,515	3,000	10,000	(c) 10,000
China .. ..	413,000,000	245,000,000	245,000,000	270,000,000	c290,000,000	c300,000,000
Formosa—						
Bituminous .. ..	3,899,373	4,169,663	4,481,663	4,734,072	4,948,248	4,974,635
Indonesia—						
Bituminous .. ..	647,717	540,449	464,000	582,000	439,000	384,000
Iran (b)—						
Bituminous .. ..	230,000	r 195,000	r 157,000	190,000	270,000	(c) 275,000
Japan—						
Anthracite .. ..	1,774,000	1,863,000	1,843,000	1,770,000	1,682,000	1,604,000
Bituminous .. ..	48,487,000	51,759,000	51,695,000	49,459,000	48,443,000	47,148,000
Lignite .. ..	1,386,246	1,288,342	1,093,546	899,910	680,139	563,000

(a) Estimated.

(b) Years ended March 20 following that stated.

(c) United States Bureau of Mines' estimate.

PRODUCTION OF COAL (cont.)

Long tons

Producing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b> (cont.)						
<b>Korea (South)—</b>						
Anthracite .. ..	5,265,500	5,791,400	7,326,400	8,718,200	9,469,600	10,086,400
<b>Korea (North) .. ..</b>	<b>10,452,000</b>	<b>11,604,000</b>	<b>12,991,000</b>	<b>13,818,000</b>	<b>15,255,000</b>	<b>18,900,000</b>
Mongolia .. ..	609,000	736,800	847,000	r 834,000	613,000	970,000
<b>Philippine Republic—</b>						
Bituminous .. ..	145,522	149,922	160,404	154,063	113,121	90,707
<b>Thailand—</b>						
Lignite .. ..	106,081	106,684	133,089	134,910	101,996	122,996
<b>Turkey—</b>						
Bituminous .. ..	6,207,446	6,286,388	6,389,093	6,692,866	7,028,000	6,896,000
Lignite .. ..	3,356,845	3,595,646	4,167,776	4,912,924	5,687,000	6,187,000
<b>Vietnam (North)—</b>						
Anthracite .. ..	2,554,000	2,767,000	3,413,000	3,294,000	(a)3,500,000	(a)3,500,000
<b>Vietnam (South)—</b>						
Anthracite .. ..	27,000	56,000	70,000	102,000	76,000	(b) 75,000
<b>TOTAL .. ..</b>	<b>2,290,000,000</b>	<b>2,140,000,000</b>	<b>2,190,000,000</b>	<b>2,290,000,000</b>	<b>2,390,000,000</b>	<b>2,430,000,000</b>
<b>WORLD'S TOTAL ..</b>	<b>2,590,000,000</b>	<b>2,440,000,000</b>	<b>2,510,000,000</b>	<b>2,610,000,000</b>	<b>2,710,000,000</b>	<b>2,760,000,000</b>

(a) Estimated.

(b) United States Bureau of Mines' estimate.

PRODUCTION OF COKE

Long tons

Producing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Great Britain—						
Gas-works—coke (a) ..	9,866,000	9,820,000	9,729,000	9,719,000	8,801,000	7,769,000
breeze (a) ..	2,474,000	2,343,000	2,377,000	2,358,000	2,169,000	1,988,000
Coke-ovens—coke ..	18,834,000	17,782,000	15,536,000	15,485,000	16,857,000	17,073,000
breeze ..	1,294,000	1,263,000	1,175,000	1,222,000	1,343,000	1,392,000
Rhodesia .. ..	226,796	(e) 172,691	(e) 107,062	(e) 104,784	(e) 132,771	(f) 171,855
Canada (c) .. ..	3,457,859	3,481,737	3,590,870	3,822,140	3,877,662	3,900,706
Hong Kong—						
Gas-works (c) .. ..	18,000	9,000	16,839	14,719	13,000	13,000
India—						
Gas-works .. ..	125,524	125,080	122,920	106,370	68,215	63,288
Hard .. ..	4,702,208	6,127,780	6,937,252	8,240,000	7,202,827	7,850,000
Soft .. ..	1,787,286	1,775,836	2,064,961	2,255,024	2,171,662	2,570,000
Australia (d)—						
Coke—gas-works ..	758,668	764,626	761,355	694,575	693,361	632,501
coke-ovens ..	2,376,097	2,738,505	2,716,894	2,759,060	2,915,005	3,118,262
Breeze .. ..	316,549	376,123	456,719	379,183	417,949	471,787
New Zealand (b)—						
Gas-works .. ..	77,036	86,732	76,920	79,000	68,000	n.a.
Irish Republic—						
Gas-works (c) .. ..	111,648	120,920	120,011	126,228	128,758	125,620
<b>OTHER COUNTRIES</b>						
Austria—						
Gas-works .. ..	258,288	249,906	310,203	337,662	307,792	281,203
Coke-ovens .. ..	1,808,218	1,753,878	1,628,056	1,608,145	1,582,661	1,523,786
Belgium—						
Gas-works .. ..	2,000	2,000	2,000	2,000	2,000	2,000
Coke-ovens .. ..	7,406,264	7,095,945	7,047,834	7,090,500	7,281,000	7,220,000
Bulgaria .. ..	20,037	19,686	7,671	126,365	463,000	721,000
Czechoslovakia—						
Hard coke .. ..	8,324,000	8,402,000	8,789,000	9,152,000	9,272,000	9,346,000
Brown-coal coke ..	2,142,000	2,121,000	2,078,000	2,081,000	1,899,000	1,666,000
Denmark (gas-works) ..	392,000	399,000	411,000	405,000	344,000	259,000
Finland .. ..	136,000	136,684	159,612	154,813	n.a.	140,000
France—						
Gas-works (e) .. ..	684,300	422,700	243,000	136,000	60,000	20,000
Coke-ovens .. ..	13,419,321	13,266,892	13,305,091	13,251,173	13,784,875	13,197,000
Semi-coke .. ..	292,622	273,202	265,028	266,952	291,611	237,000
Germany (Federal)—						
Gas-works .. ..	5,138,000	4,870,000	4,882,000	4,746,000	4,834,000	4,086,000
Coke-ovens—hard coke	44,047,000	43,829,000	42,514,000	41,233,000	42,664,000	42,610,000
do. brown-coal coke ..	592,000	592,000	591,000	591,000	587,000	569,000
Germany (East)—						
Hard coke .. ..	3,155,000	3,035,000	3,073,000	3,210,000	3,344,000	3,158,000
Brown-coal coke ..	7,577,000	7,544,000	7,540,000	7,448,000	7,488,000	7,226,000
Greece (gas-works) ..	23,000	23,000	22,000	21,000	16,000	n.a.
Hungary—						
Gas-works .. ..	441,000	429,000	458,000	432,000	420,000	460,000
Coke-ovens—hard coke	533,000	681,000	742,000	757,000	764,000	765,000
do. brown-coal coke	47,000	47,000	41,000	45,000	41,000	45,000

(a) Excluding coke used for heating retorts.

(e) Sales.

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

(c) Including coke-breeze.

1965.

(d) Years ended June 30 of that stated.

PRODUCTION OF COKE (cont.)

Long tons

Producing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Italy—						
Gas-works .. ..	803,192	769,788	763,270	713,377	533,067	379,618
Coke-ovens .. ..	3,656,403	3,835,075	4,259,293	4,522,230	4,608,932	5,646,098
Luxemburg—						
Gas-works .. ..	36,000	35,000	35,000	35,000	28,000	13,000
Netherlands—						
Gas-works .. ..	287,000	232,000	197,000	174,000	107,000	96,000
Coke-ovens .. ..	4,486,000	4,574,000	4,206,000	4,203,000	4,443,000	4,218,100
Norway—						
Gas-works .. ..	45,983	44,372	44,264	57,314	127,820	21,115
Coke-ovens .. ..	—	—	—	—	106,000	255,800
Poland—						
Gas-works .. ..	969,800	1,013,200	1,079,100	1,137,100	1,176,800	} 14,200,000
Coke-ovens .. ..	10,772,000	11,355,000	11,822,000	12,522,000	12,819,000	
Portugal (gas-works) ..	38,000	39,282	30,456	24,941	9,658	4,000
Roumania—						
Coke-ovens .. ..	806,755	924,681	1,100,858	1,123,000	1,128,000	1,117,000
Spain—						
Gas-works .. ..	243,951	248,530	228,171	196,341	176,712	70,305
Coke-ovens .. ..	2,532,905	2,568,001	2,695,066	2,709,014	2,528,752	2,749,166
Sweden (a) .. ..	720,792	851,136	907,634	885,871	893,554	n.a.
Switzerland—						
Gas-works .. ..	476,170	472,166	488,483	519,651	461,749	445,157
U.S.S.R. (a) .. ..	55,345,000	57,678,000	59,967,000	62,864,000	65,235,000	d 67,000,000
Yugoslavia—						
Gas-works .. ..	19,500	16,700	17,300	17,000	17,000	18,000
Coke-ovens .. ..	1,066,000	1,082,000	1,090,000	1,073,000	1,142,000	1,229,000
Algeria (gas-works) ..	91,177	61,370	n.a.	n.a.	n.a.	n.a.
Libya—						
Gas-works (b) .. ..	5,000	5,000	5,000	5,000	5,000	5,000
South Africa—						
Gas-works .. ..	81,710	77,267	100,571	102,776	95,014	688,162
Coke-ovens .. ..	2,076,596	2,188,506	2,168,490	2,250,338	2,353,606	2,024,865
Mexico (coke-ovens) ..	822,000	768,817	767,807	753,067	773,716	(d) 800,000
United States—						
Coke-ovens—						
Coke .. ..	50,195,632	45,384,294	45,623,589	47,596,079	54,382,492	58,212,074
Breeze and screenings	3,308,434	2,979,611	3,057,786	3,222,148	3,483,971	3,604,700
Bechive—						
Coke .. ..	901,437	786,409	724,886	866,695	1,103,828	1,479,409
Breeze and screenings	33,633	47,790	38,779	26,434	19,985	38,607
Other coke .. ..	n.a.	n.a.	147,000	143,000	181,000	133,000
Brazil .. ..	693,000	688,000	709,000	660,000	898,000	890,000
Chile .. ..	n.a.	255,741	293,800	304,959	324,067	299,848
Colombia .. ..	244,300	197,000	n.a.	393,683	452,681	n.a.
Peru .. ..	29,994	35,421	38,876	r 37,841	28,000	25,000
Uruguay (gas-works)—						
Coke .. ..	31,065	23,105	22,194	20,825	20,521	19,254
Breeze .. ..	4,485	3,774	3,823	2,842	3,642	3,611
China (d) .. ..	25,000,000	15,000,000	15,000,000	15,000,000	15,000,000	16,000,000
Formosa .. ..	190,668	183,793	226,795	229,801	241,755	252,448
Iran (c) .. ..	25,000	20,000	13,000	n.a.	n.a.	n.a.
Japan—						
Gas-works .. ..	3,660,982	3,736,845	3,399,336	3,320,990	3,662,204	3,612,000
Coke-ovens .. ..	6,380,352	8,366,879	8,751,877	9,108,116	10,369,434	n.a.
Bechive, etc. .. ..	2,033,937	2,373,635	2,614,015	2,767,438	3,110,941	n.a.
Korea (North) (d) ..	804,000	900,000	1,100,000	1,200,000	1,400,000	1,600,000
Korea (South) .. ..	—	—	35,000	—	—	—

(a) Including coke-breeze.

(d) United States Bureau of Mines' estimate.

(b) Estimated.

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



PRODUCTION OF COKE (cont.)

Long tons

Producing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Turkey—						
Gas-works .. ..	(a) 100,000	119,000	150,000	166,000	170,000	114,000
Coke-ovens .. ..	520,938	518,000	505,000	810,000	845,000	1,223,000
Semi-coke .. ..	82,437	81,000	83,000	78,000	78,000	71,000

(a) Estimated.

## PRODUCTION OF BRIQUETTES

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
Great Britain .. .. .	1,453,000	1,468,000	1,548,000	1,652,000	1,330,000	905,000
Canada .. .. .	72,484	60,113	r 50,000	65,000	53,494	62,000
Australia—						
Brown-coal briquettes..	(a) 974,670	(a)1,806,619	(a)1,819,954	1,887,000	1,856,000	1,903,000
New Zealand .. .. .	15,082	14,287	11,829	12,645	14,690	17,764
OTHER COUNTRIES						
Belgium .. .. .	1,062,400	1,152,000	1,576,008	2,263,032	1,410,383	1,057,322
Czechoslovakia—						
Coal briquettes.. .. .	322,000	149,000	—	—	—	—
Brown-coal briquettes	429,000	708,000	775,000	766,000	772,000	779,000
Denmark (e)—						
Brown-coal briquettes ..	18,491	34,249	41,458	53,390	58,474	23,911
France .. .. .	5,976,028	5,995,109	6,839,514	7,887,216	6,532,907	5,717,000
Germany (Federal)—						
Coal briquettes.. .. .	5,136,354	4,791,975	5,573,939	6,268,739	5,326,113	4,472,387
Brown-coal briquettes ..	15,003,894	15,270,209	15,520,870	15,584,213	15,113,594	12,481,957
Germany (East)—						
Brown-coal briquettes ..	55,162,000	57,080,000	58,784,000	59,304,000	60,533,000	59,426,000
Hungary—						
Coal briquettes.. .. .	1,033,274	1,105,468	1,108,012	1,102,860	1,126,810	1,324,000
Brown coal semi-coke briquettes .. .. .	12,125	14,190	62,549	103,818	153,556	84,000
Netherlands—						
Coal briquettes .. .. .	1,162,400	1,168,932	1,346,000	1,536,000	1,334,000	1,229,000
Brown-coal briquettes ..	61,500	72,888	69,700	62,000	65,000	45,000
Poland—						
Coal briquettes.. .. .	707,000	664,000	644,000	629,000	613,000	603,000
Brown-coal briquettes ..	308,000	333,000	340,000	350,000	370,000	330,000
Portugal .. .. .	52,668	54,915	44,304	44,050	40,517	31,000
Spain .. .. .	1,125,302	1,100,122	1,217,769	1,173,692	1,037,216	n.a.
Switzerland (b) .. .. .	100,000	100,000	100,000	100,000	100,000	100,000
Algeria .. .. .	44,237	39,905	(b) 16,000	—	—	—
United States (c) .. .. .	664,629	510,950	508,949	492,149	320,743	322,084
Korea (South) .. .. .	450,000	579,134	n.a.	n.a.	n.a.	n.a.
Turkey (d) .. .. .	147,764	n.a.	n.a.	n.a.	n.a.	n.a.

(a) Years ended June 30 of that stated.

(b) Estimated.

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

1960—22,059; 1961—17,125; 1962—15,571; 1963—12,692; 1964—8,323; 1965—7,447.

(d) Sales.

(e) Production in major establishments only.

PRODUCTION OF COAL BY-PRODUCTS\*

Long tons

Producing Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
Great Britain—						
Tar (crude) distilled ..	2,681,000	2,656,000	2,570,000	2,583,000	2,564,000	2,401,000
Tar (refined) .. ..	547,000	560,000	566,000	574,000	632,000	564,000
Pitch .. ..	412,000	418,000	354,000	418,000	480,000	463,000
Motor benzol .. ..	115,000	131,000	123,000	110,000	118,000	100,000
Other motor spirits, etc.	5,700	6,300	6,700	6,000	6,000	—
Other refined light oils ..	287,000	238,000	224,000	236,000	260,000	244,000
Creosote-pitch mixture	1,051,000	904,000	1,020,000	1,008,000	829,000	796,000
Creosote oil .. ..	410,000	400,000	430,000	400,000	470,000	410,000
Naphthalene (crude) ..	67,900	63,800	72,100	73,500	81,800	81,600
Naphthalene (refined)	6,300	7,300	6,300	6,200	5,200	3,900
Pyridine bases .. ..	1,400	1,300	2,000	3,200	4,000	5,600
Natural phenol .. ..	18,500	20,600	16,300	16,600	19,400	18,400
Refined cresylic acid ..	75,000	66,000	66,000	70,200	67,000	67,900
Anthracene 40-50% ..	4,000	4,200	4,000	3,900	4,200	4,000
Rhodesia—						
Tar (crude) .. ..	(c) 3,446	4,842	(c) 6,575	(d) 3,999	(d) 2,945	(d) 3,009
Motor benzol .. ..	(c) 562	608	(c) 297	n.a.	n.a.	n.a.
Ammonia liquor .. ..	(c) 1,040	1,068	(c) 872	(d) 788	(d) 670	(d) 967
Canada—						
Tar (refined) .. ..	13,490	19,250	31,440	18,510	n.a.	n.a.
Pitch .. ..	113,000	r 75,000	80,000	78,000	n.a.	n.a.
Creosote oils .. ..	67,043	43,819	35,320	42,290	n.a.	n.a.
India (coke-ovens)—						
Tar .. ..	203,307	255,972	311,624	288,555	260,939	242,411
Benzol .. ..	3,527	5,767	5,965	8,877	8,067	9,994
Benzene .. ..	4,277	7,260	8,898	19,363	16,894	20,394
Toluol .. ..	368	269	192	218	157	194
Toluene .. ..	955	1,043	2,009	2,139	1,998	2,159
Xylene .. ..	—	76	298	506	183	150
Solvent naphtha .. ..	492	514	735	122	909	1,380
Pitch .. ..	7,042	36,051	45,110	53,384	72,004	69,383
Naphthalene .. ..	7	1,206	3,985	3,324	2,838	5,955
Ammonium sulphate ..	39,125	52,525	62,492	72,902	73,867	62,139
Light oil .. ..	3,347	3,947	3,741	5,749	4,350	5,633
Middle oil .. ..	459	3,126	7,606	10,233	7,124	5,373
Heavy oil (230-270°C.)	589	3,303	6,885	5,338	2,442	2,018
Anthracene oil .. ..	467	3,753	13,574	16,574	13,608	8,663
Australia—						
Tar (crude) (a) .. ..	266,472	292,985	291,709	276,343	279,712	282,560
Tar (refined) (a) .. ..	152,041	152,168	152,191	197,512	213,882	225,790
Tar oils (crude) (a) ..	17,141	18,034	18,948	15,771	12,447	n.a.
Benzol for blending ..	18,837	22,007	n.a.	n.a.	n.a.	n.a.
New Zealand (b)—						
Tar (gas-works) .. ..	12,707	11,909	12,046	11,550	11,300	n.a.
Irish Republic (gas-works)—						
Tar .. ..	13,903	12,737	17,036	14,187	15,997	24,370

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

See page 88 for conversion rates.

See Nitrogen Compounds (pages 232-235) for total production of ammonium sulphate.

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

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

(c) Sales.

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

## PRODUCTION OF COAL BY-PRODUCTS (cont.)

Long tons

Producing Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES						
Belgium—						
Tar (crude) .. ..	263,572	265,157	272,163	272,463	278,163	277,577
Benzol (crude) .. ..	n.a.	n.a.	70,700	62,839	64,603	67,169
Benzol (motor) .. ..	20,270	} 7,070	n.a.	n.a.	n.a.	n.a.
do. industrial .. ..	26,104					
Benzene .. ..	n.a.	n.a.	40,800	40,600	n.a.	n.a.
Toluol and xylol .. ..	} 6,058	11,610	14,362	14,964	n.a.	n.a.
Solvent naphtha .. ..						
France—						
Tar (crude) .. ..	700,000	645,004	637,773	645,835	651,471	615,000
Ammonium sulphate .. ..	125,100	127,600	130,406	126,671	134,355	n.a.
Benzol (crude) .. ..	151,700	152,161	160,000	160,000	168,000	162,000
Pitch .. ..	218,246	199,179	194,970	203,624	229,142	230,000
Naphthalene (crude) .. ..	45,588	50,902	49,813	24,572	24,507	n.a.
Germany (Federal)—						
Tar (crude) .. ..	2,042,000	2,017,000	1,965,000	1,925,000	1,953,646	1,922,542
Pitch .. ..	979,854	972,262	964,507	974,942	967,136	n.a.
Tar oils .. ..	660,684	698,283	740,873	720,055	744,142	n.a.
Naphthalene .. ..	126,253	140,434	147,862	152,089	161,309	n.a.
Benzol (crude) .. ..	592,660	581,631	563,355	542,754	570,713	557,925
Refined benzols .. ..	642,173	620,343	605,233	561,786	567,974	n.a.
Phenol .. ..	15,701	14,709	18,935	17,886	17,641	n.a.
Cresol and xylol .. ..	24,323	23,787	25,198	24,060	20,284	n.a.
Anthracene .. ..	32,514	35,323	40,210	37,014	45,591	n.a.
Pyridine and bases .. ..	940	918	991	954	1,393	n.a.
Hungary—						
Brown coal tar .. ..	30,475	28,478	26,969	27,263	28,316	n.a.
Pitch .. ..	34,492	34,294	40,279	39,294	40,507	39,545
Benzol .. ..	2,960	5,896	5,034	6,153	6,258	4,832
Creosote .. ..	14,536	9,434	9,410	7,188	6,704	7,152
Italy—						
Tar .. ..	180,299	197,655	215,422	217,063	202,033	241,584
Ammonium sulphate .. ..	37,929	41,203	42,325	44,317	43,349	n.a.
Benzol (crude) .. ..	35,637	36,383	35,563	44,317	43,010	56,538
Naphthalene (crude) .. ..	8,848	8,874	9,010	10,146	10,492	11,335
Distillates .. ..	63,970	73,051	70,759	74,423	64,926	65,515
Benzol (refined) .. ..	27,659	30,365	29,147	24,450	23,366	20,303
Toluol and xylol .. ..	6,226	6,655	6,584	6,183	6,056	5,086
Pitch .. ..	76,574	82,896	80,121	92,231	80,990	83,587
Solvent naphtha .. ..	1,215	1,417	1,465	1,306	1,176	1,074
Norway—						
Tar (gas-works) .. ..	5,318	4,810	4,767	3,490	3,017	31,364
Poland—						
Tar (coke-ovens) .. ..	479,900	500,500	533,500	551,000	555,300	566,000
Tar (gas-works) .. ..	71,100	74,300	81,100	82,400	83,000	94,100
Ammonium sulphate (coke-ovens) .. ..	115,700	122,900	130,500	132,000	140,000	144,000
Benzol (coke-ovens) .. ..	147,700	154,800	163,500	164,900	168,800	173,100
Portugal (gas-works)—						
Creosote .. ..	n.a.	1,363	1,144	1,189	449	n.a.
Pitch .. ..	n.a.	1,147	826	1,043	465	n.a.
Spain—						
Tar .. ..	139,922	132,676	135,188	134,160	124,423	124,177
Pitch .. ..	34,155	26,231	28,116	28,254	28,543	31,837
Benzol .. ..	39,157	37,566	52,593	50,213	47,784	n.a.
Benzene .. ..	7,742	8,010	11,544	r 14,165	13,274	15,054

## PRODUCTION OF COAL BY-PRODUCTS (cont.)

Long tons

Producing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Spain <i>(cont.)</i> —						
Toluol .. .. .	2,325	2,007	1,850	1,604	1,798	1,912
Toluene .. .. .	798	812	468	1,043	1,221	1,303
Xylene .. .. .	71	422	387	887	767	657
Solvent naphtha .. .. .	201	230	122	199	205	87
Anthracene .. .. .	13,142	7,943	6,692	6,266	5,819	6,544
Naphthalene .. .. .	6,337	6,263	5,947	9,069	6,869	7,104
Ammonium sulphate .. .. .	319,058	353,429	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Creosote .. .. .	10,924	10,064	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sweden—						
Tar (crude) .. .. .	33,623	37,718	39,944	38,717	39,506	<i>n.a.</i>
Pitch .. .. .	236	312	348	250	216	<i>n.a.</i>
Benzol, toluol, etc. .. .. .	10,560	11,502	12,269	12,319	12,149	<i>n.a.</i>
Distillates, etc. .. .. .						
Switzerland—						
Tar (crude) (gas-works) .. .. .	28,561	27,291	27,071	28,903	26,064	25,393
Yugoslavia—						
Benzol .. .. .	11,182	11,242	9,905	9,394	11,105	<i>n.a.</i>
Algeria—						
Tar (gas-works) .. .. .	5,368	3,703	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
United States—						
Coke-ovens—						
Tar (crude) .. .. .	2,938,289	2,706,743	2,778,255	2,871,263	3,260,331	3,430,503
Pitch .. .. .	929,046	1,049,227	991,437	921,985	970,099	1,040,858
Sulphate equivalent of ammonia produced (a) .. .. .	656,644	618,807	598,777	641,766	708,846	717,641
Benzol .. .. .	451,088	400,684	380,757	374,758	396,481	393,302
do. motor .. .. .	2,070	2,762	4,802	7,815	2,322	10,556
Toluol and xylol .. .. .	125,733	117,551	113,754	106,806	106,666	103,127
Solvent naphtha .. .. .	14,700	14,474	13,731	11,413	14,371	17,373
Other light products .. .. .	12,288	11,707	14,110	14,774	27,457	26,649
All sources (c)—						
Tar (crude) .. .. .	2,938,289	2,706,743	2,778,255	2,871,263	3,260,331	3,430,503
Water gas and oil gas tar .. .. .	93,162	70,513	82,419	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Crude light oil .. .. .	781,670	713,343	705,627	727,220	828,897	875,670
Benzol (b) .. .. .	493,713	441,867	427,553	405,083	<i>n.a.</i>	<i>n.a.</i>
Toluol .. .. .	109,910	103,070	98,732	94,765	<i>n.a.</i>	<i>n.a.</i>
Xylol .. .. .	27,600	26,510	24,760	24,170	<i>n.a.</i>	<i>n.a.</i>
Solvent naphtha .. .. .	29,010	29,320	34,365	29,130	<i>n.a.</i>	<i>n.a.</i>
Other light oil derivatives .. .. .	23,260	25,280	29,750	38,147	<i>n.a.</i>	<i>n.a.</i>
Naphthalene (crude) .. .. .	230,821	221,949	189,377	151,212	<i>n.a.</i>	<i>n.a.</i>
Creosote oil .. .. .	368,390	348,250	360,460	389,330	<i>n.a.</i>	<i>n.a.</i>
Tar, road .. .. .	267,370	244,490	265,650	248,040	<i>n.a.</i>	<i>n.a.</i>
Tar for other uses (d) .. .. .	128,190	122,640	96,278	77,897	<i>n.a.</i>	<i>n.a.</i>
Pitch of tar .. .. .	1,701,000	1,826,000	1,678,000	1,596,000	<i>n.a.</i>	<i>n.a.</i>
Pitch of tar coke .. .. .	25,000	12,000	16,000			

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

1960—563,967; 1961—529,980; 1962—522,661; 1963—553,286; 1964—607,935; 1965—619,011.

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

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

(d) Used for paints etc.

## PRODUCTION OF COAL BY-PRODUCTS (cont.)

Long tons

Producing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Uruguay (gas-works)—						
Tar .. .. .	2,933	2,396	2,045	2,007	1,944	1,770
Benzol .. .. .	139	163	165	151	196	189
Japan—						
Tar .. .. .	888,410	1,053,784	1,075,477	1,128,400	1,239,994	1,358,000
Benzol (crude) .. .. .	196,929	242,717	254,739	268,593	311,586	364,781
do. (other) .. .. .	122,873	161,407	194,298	247,372	302,922	375,177
Toluol and xylol .. .. .	31,739	134,556	41,603	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Solvent naphtha .. .. .	10,996	10,786	8,906	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Creosote oil .. .. .	199,484	230,967	249,116	r 264,622	279,234	303,458
Carbolic acid (crude) .. .. .	11,287	4,211	15,359	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Naphthalene (crude) .. .. .	50,889	60,256	58,028	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
do. (refined) .. .. .	10,656	11,314	9,021	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Anthracene .. .. .	11,621	13,322	12,568	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ammonium sulphate .. .. .	<i>n.a.</i>	<i>n.a.</i>	217,603	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Turkey—						
Road tar .. .. .	17,887	18,432	15,939	21,745	<i>n.a.</i>	<i>n.a.</i>
Pitch .. .. .	10,800	1,760	3,450	11,300	<i>n.a.</i>	<i>n.a.</i>
Benzol .. .. .	4,581	4,244	4,074	5,145	<i>n.a.</i>	<i>n.a.</i>
Toluol and xylol .. .. .	436	473	446	657	<i>n.a.</i>	<i>n.a.</i>
Solvent naphtha .. .. .	80	43	53	131	<i>n.a.</i>	<i>n.a.</i>
Creosote .. .. .	4,716	2,312	2,705	6,905	<i>n.a.</i>	<i>n.a.</i>
Anthracene .. .. .	169	6	39	94	<i>n.a.</i>	<i>n.a.</i>
Ammonium sulphate .. .. .	4,549	4,200	4,030	6,595	<i>n.a.</i>	<i>n.a.</i>
Naphthalene .. .. .	667	659	557	866	<i>n.a.</i>	<i>n.a.</i>

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

## EXPORTS OF COAL, COKE AND BY-PRODUCTS\*

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—						
Anthracite—						
smalls and graded ..	536,065	715,278	1,016,834	1,583,838	1,161,166	827,000
large .. .. .	86,856	73,583	111,494	180,938	133,088	88,000
other .. .. .	269,923	295,639	272,002	523,492	378,066	272,000
Bituminous—						
smalls and graded ..	3,148,244	3,535,062	2,509,121	4,733,358	3,597,859	1,972,000
unscreened .. .. .	221,573	171,316	203,095	305,432	179,279	122,000
large .. .. .	593,030	477,988	219,702	204,335	152,894	153,000
other .. .. .	286,850	328,188	379,933	344,606	268,018	359,000
Bunkers .. .. .	317,372	110,108	53,510	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Coke, gas .. .. .	674,490	636,587	722,664	518,885	410,686	357,000
do. other .. .. .	876,837	842,582	1,004,325	1,500,718	1,056,819	636,000
Manufactured fuel ..	93,002	59,997	100,603	135,335	50,632	33,000
Tar .. .. .	69,678	68,281	74,742	59,546	84,619	66,282
Pitch .. .. .	184,338	168,717	210,065	291,688	195,179	187,000
Channel Islands (Jersey)						
Coke .. .. .	11,527	12,405	15,210	14,332	13,560	16,301
Tar .. .. .	3,762	2,885	3,709	3,821	3,171	2,602
Gibraltar—						
Coal (bunkers) (b) ..	6,812	658	547	494	410	20
Kenya—						
Coal (bunkers) (b) ..	66	176	156	216	1,775	638
Nigeria—						
Coal .. .. .	26,780	51,041	32,199	8,031	7,894	20,377
Coke .. .. .	—	—	—	8,125	14,300	15,036
Patent fuel .. .. .	—	—	—	26,125	37,525	—
Rhodesia (e)—						
Coal .. .. .	175,026	243,787	192,966	245,175	1,320,887	1,608,179
Coke .. .. .	70,869	111,736	52,238	42,328	103,315	144,018
Canada—						
Coal .. .. .	761,521	838,693	798,142	941,399	1,141,177	1,094,637
do. (bunkers) (c) ..	17,737	14,895	17,312	13,559	12,069	<i>n.a.</i>
do. do. (a) .. .. .	257,114	222,549	218,679	236,357	<i>n.a.</i>	<i>n.a.</i>
Lignite .. .. .	16	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	—
Coke .. .. .	111,392	155,621	112,521	121,711	88,853	63,867
Tar and pitch .. .. .	8	22,568	26,876	77,004	45,659	30,237
Trinidad and Tobago—						
Coal (bunkers) (b) ..	73	38	18	12	—	<i>n.a.</i>
Ceylon—						
Coal (bunkers) (b) ..	324	447	627	171	339	279
Cyprus—						
Coal (bunkers) (b) ..	—	1	—	—	1	—
Hong Kong—						
Coke .. .. .	32	20	20	49	30	150
India (d)—						
Coal .. .. .	1,129,383	919,409	1,097,121	1,486,736	1,250,108	687,706
Coke .. .. .	41,516	340	31	—	10,492	5,048
Tar and pitch .. .. .	3,186	6,721	1,065	1,525	1,212	184

\*For Ammonium sulphate, etc. see Nitrogen Compounds, pages 236-237.

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

(b) Foreign coal. (See imports.)

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

(d) Years ended March 31 following that stated.

(e) Figures for years 1960 to 1963 exclude exports to Malawi and Zambia.

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

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES (cont.)</b>						
Malaya—						
Coal .. .. .	1	—	3	26	5	514
do. (bunkers) (a) ..	82	54	852	15	10	2
Coke .. .. .	489	496	404	1,361	642	656
Tar .. .. .	28	18	753	239	167	184
Australia (c)—						
Coal .. .. .	1,087,844	1,888,415	3,469,552	2,676,522	3,805,747	6,051,147
do. (bunkers) ..	8,117	179	37	1,703	86	23,978
Coke .. .. .	75,502	81,075	78,359	30,986	79,432	106,750
New Zealand—						
Coal .. .. .	18,157	13,559	48	(c) 10	(c) 149	(c) 20
Coke .. .. .	5	33	19	(c) 15	(c) 221	(c) 437
Tar .. .. .	2	—	—	(c) 1	(c) 5	n.a.
Irish Republic—						
Anthracite .. ..	10,329	17,000	11,968	14,635	6,469	5,974
Other coal .. ..	11,479	44,297	27,940	142	101	725
Coal (bunkers) (a) ..	320	448	186	363	—	—
<b>OTHER COUNTRIES</b>						
Austria—						
Coal .. .. .	26	63	28	36	27	22
Brown coal .. ..	37,119	31,825	19,643	19,780	16,280	9,809
Coke .. .. .	38	20	9,952	81	24	28
Tar .. .. .	1	—	—	407	400	76
Pitch .. .. .	2,932	3,854	1,054	2,387	400	301
Belgium-Luxemburg E. U.—						
Coal .. .. .	2,187,163	2,730,488	2,709,649	1,920,853	2,099,556	1,816,841
do. (bunkers) (b) ..	15,252	8,270	8,692	2,971	590	263
Coke .. .. .	736,973	624,729	416,655	477,277	397,437	503,379
Briquettes .. ..	176,007	140,306	285,990	692,851	434,587	129,778
Tar .. .. .	15,251	12,512	6,261	10,322	28,145	50,248
Pitch .. .. .	55,823	39,379	23,292	26,189	15,168	6,371
Czechoslovakia—						
Coal .. .. .	2,160,000	2,408,000	2,347,000	2,296,000	2,547,000	2,340,000
Brown coal .. ..	1,420,000	1,342,000	1,522,000	1,764,000	1,388,000	1,166,000
Coke .. .. .	1,296,000	1,348,000	1,545,000	1,730,000	1,858,000	1,806,000
Denmark—						
Coal .. .. .	—	3	234	2,217	—	1
Brown coal briquettes	8,964	28,862	26,345	48,996	43,567	9,605
Coke .. .. .	18,296	24,131	40,148	52,306	43,828	50,240
Tar and pitch .. ..	14,242	12,802	15,154	23,729	18,376	2,961
France—						
Anthracite .. ..	14,794	12,935	23,275	13,753	43,027	110,556
Bituminous .. ..	1,381,364	1,311,872	1,315,849	972,521	855,749	718,720
Brown coal .. ..	465	361	61	20	21,005	59,720
Coke .. .. .	103,966	72,584	55,983	50,108	35,813	56,249
Briquettes .. ..	26,207	23,768	30,838	13,883	29,248	40,223
Brown coal briquettes	168	106	243	597	224	489
Coal, coke and briquettes—						
Bunkers (domestic produce) .. .. .	(b) 1,350	n.a.	n.a.	n.a.	n.a.	n.a.
Tar and pitch .. ..	34,945	25,974	11,944	16,770	15,112	16,556

(a) Foreign coal (see imports).

(c) Years ended June 30 of that stated.

(b) Bunkers for foreign ships only.



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

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES						
(cont.)						
Germany (Federal)—						
Coal .. .. .	17,245,972	16,666,158	17,572,444	16,093,365	13,502,765	13,078,608
do. (bunkers) (a) ..	89,180					
Brown coal .. ..	214,519	245,032	222,951	199,061	207,957	156,313
Coke .. .. .	10,719,700	10,771,878	10,151,115	11,881,974	10,752,600	9,575,755
Coal briquettes ..	355,006	357,468	395,102	447,634	379,560	272,880
Brown-coal briquettes	1,302,463	1,433,600	1,424,860	1,490,403	1,446,338	1,164,714
Tar and pitch .. ..	265,348	251,130	262,007	258,316	268,177	281,608
Germany (East)—						
Coal .. .. .	984	198	591	571	467	—
Coke .. .. .	104,000	117,000	113,000	112,000	120,000	123,000
Brown coal briquettes ..	6,239,000	6,107,000	6,498,000	6,871,000	6,692,000	5,868,000
Hungary—						
Coal .. .. .	63,341	48,808	52,199	148,507	80,719	n.a.
Italy—						
Coal (incl. bunkers) ..	3,054	5,149	4,418	23,762	4,153	1,588
Coke .. .. .	115,369	163,649	170,007	146,419	98,267	118,260
Tar .. .. .	1,776	576	3,775	3,115	587	142
Pitch .. .. .	22,806	20,583	29,542	43,592	29,434	20,704
Netherlands—						
Coal .. .. .	2,131,176	2,318,849	2,293,540	2,530,659	2,123,830	2,058,757
do. (bunkers) (a) ..	1,481	1,496	1,212	804	418	531
Brown coal .. .. .	—	22	9	20	39	—
Coke .. .. .	2,269,911	2,438,035	2,187,692	2,084,173	2,289,764	2,366,273
Briquettes .. .. .	498,463	533,082	610,660	756,901	763,330	821,530
Brown coal briquettes ..	27,277	37,557	38,855	33,698	39,685	23,180
Tar .. .. .	18,437	27,931	26,451	20,669	25,859	27,654
Pitch .. .. .	6,281	6,932	8,783	15,207	6,979	8,237
Norway—						
Coal .. .. .	170,668	159,948	177,146	172,473	82,968	135,391
Tar .. .. .	2,631	2,675	1,928	3,965	6,214	12,583
Pitch .. .. .	30	19	17	27	19	22
Poland—						
Coal .. .. .	17,220,700	16,783,700	17,032,600	16,624,900	18,963,600	20,700,000
Brown coal .. .. .	5,368,800	5,779,600	5,570,600	5,645,000	5,295,900	5,117,000
Coke .. .. .	2,053,000	2,104,800	2,111,000	2,314,500	2,213,500	2,287,000
Portugal—						
Coal .. .. .	67	2,563	102	124	167	124
do. (bunkers) (a) ..	367	473	1,523	802	30	52
Tar and pitch .. ..	11	18	15	29	15	15
Spain—						
Anthracite .. .. .	—	15,244	—	5,925	9	2,365
Bituminous (incl. bunkers) .. ..	19,066	20,760	15,353	1,639	2,279	127
Other coal .. .. .						
Coke .. .. .	23,664	27,140	—	14,678	53,224	8,384
Tar and pitch .. ..	120	7	—	—	226	236
Spitzbergen—						
Coal (including bunkers)	784,151	705,043	826,000	642,422	n.a.	n.a.
Sweden—						
Coal .. .. .	427	36,104	19,911	22,556	6,849	2,766
Coke .. .. .	10,639	6,575	6,235	7,147	11,983	9,271
Tar, pitch, etc. . . .	17	4,515	9,577	13,855	8,636	11,042
Switzerland—						
Coal .. .. .	1	3	1,729	296	787	—
Coke .. .. .	2,326	310	387	131	59	141
Briquettes .. .. .	42	2,497	182	838	93	9
Tar and pitch .. ..	245	13	143	271	264	68
U.S.S.R.—						
Anthracite .. .. .	1,792,200	2,172,100	3,213,400	4,168,100	4,021,500	3,272,000
Other coal .. .. .	10,328,300	12,706,100	15,642,000	16,519,900	18,926,300	18,534,000
Coke .. .. .	2,604,200	2,968,400	3,269,500	3,736,000	3,935,800	3,693,000
Pitch .. .. .	190,600	145,200	127,800	142,200	123,500	71,600

(a) Bunkers for foreign ships only.

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

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES (cont.)						
Yugoslavia—						
Bituminous .. ..	104,655	98,812	83,044	83,224	110,060	84,136
Brown coal .. ..	6,177	6,842	14,756	39,377	19,638	21,197
Lignite .. ..	1,276	5,606	11,685	25,100	31,208	23,138
Briquettes .. ..	49	39	2	—	39	—
Pitch .. ..	11,203	21,057	11,927	12,484	1,111	413
Tar .. ..	—	1,153	431	—	—	—
Algeria—						
Coal (bunker) (b) ..	1,103	n.a.	n.a.	n.a.	n.a.	n.a.
Coke .. ..	51	n.a.	n.a.	n.a.	n.a.	n.a.
Canary Islands—						
Coal .. ..	—	—	202	n.a.	n.a.	—
Ceuta—						
Coal (bunkers) (b) ..	601	390	203	n.a.	n.a.	114
Malagasy Republic—						
Coal (bunkers) .. ..	—	—	—	—	2	n.a.
Morocco—						
Anthracite .. ..	185,091	194,130	155,530	172,935	133,517	97,486
Other coal .. ..	46	816	7	—	3	18
Briquettes .. ..	3,856	4,786	1,849	291	1,226	815
Mozambique—						
Coal (incl. bunkers) ..	58,599	59,832	51,115	64,197	34,113	86,664
South Africa—						
Coal .. ..	933,554	1,038,147	1,618,277	1,375,289	1,362,767	1,035,639
do. (bunkers) .. ..	1,808	1,383	1,146	n.a.	n.a.	n.a.
Coke .. ..	12,656	8,981	13,593	3,388	711	n.a.
Tar and pitch .. ..	17,273	10,860	3,946	3,073	n.a.	n.a.
Mexico—						
Coal and coke .. ..	334	—	—	—	—	—
United States—						
Anthracite .. ..	1,286,071	1,380,793	1,608,682	2,993,921	1,406,337	759,471
Bituminous .. ..	32,625,960	31,223,058	34,297,700	42,034,317	42,829,842	44,804,786
do. (bunkers) .. ..	274,832	245,551	190,322	199,234	225,701	n.a.
Coke .. ..	315,193	397,529	325,029	402,894	467,585	744,346
Briquettes .. ..	18,862	11,367	16,604	72,260	15,944	79,023
Tar and pitch .. ..	107,106	65,096	52,978	n.a.	10,837	13,270
Chile—						
Coal (including bunkers)	31,849	725	1,101	n.a.	n.a.	n.a.
Peru—						
Coal .. ..	26,998	1,968	10,457	6,889	9,639	15,659
Formosa—						
Coal (including bunkers)	186,073	236,966	126,341	89,302	94,833	1,907
Indonesia—						
Coal (including bunkers)	6,946	89	202	n.a.	n.a.	n.a.
Iran (a)—						
Coal .. ..	367	264	608	249	113	303

(a) Years ended March 20 following that stated.

(b) Foreign coal (see imports).

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

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES ( <i>cont.</i> )						
Japan—						
Coal .. .. .	21,429	56,065	62,452	90,464	67,636	65,691
do. (bunkers) ..	12,838	9,816	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Coke .. .. .	6,639	8,119	14,463	16,054	9,466	28,246
Tar and pitch ..	18,907	14,569	30,368	31,608	37,509	24,762
Korea (South)—						
Anthracite .. ..	120,854	237,475	296,725	258,801	247,560	201,724
Lebanon—						
Coal and briquettes ..	1,706	1,674	<i>n.a.</i>	2,142	2,195	<i>n.a.</i>
Coke .. .. .	416	542	<i>n.a.</i>	376	690	<i>n.a.</i>
Turkey—						
Coal .. .. .	30,316	—	—	5,856	16,204	9,050
Vietnam (South)—						
Coal .. .. .	—	68	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

## IMPORTS OF COAL, COKE AND BY-PRODUCTS\*

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom—						
Coal .. .. .	13,223	39,900	21,829	32,123	351	2,571
Coke .. .. .	3,291	2,109	3,111	788	<i>n.a.</i>	17
Manufactured fuel .. .. .	6	56	173	222	647	5,481
Channel Islands—						
Anthracite .. .. .	116,473	84,356	79,556	84,204	62,971	49,279
Bituminous .. .. .	130,950	105,076	110,143	100,443	87,288	81,530
Coke .. .. .	4,167	5,042	7,316	8,006	4,831	5,101
Gibraltar—						
Coal (b) .. .. .	6,720	6,820	2,781	2,900	1,410	1,327
Malta—						
Coal (c) .. .. .	2,046	2,056	2,377	2,549	4,110	443
Coke .. .. .	582	1,020	1,225	267	387	165
Gambia—						
Coal, coke and patent fuel .. .. .	—	3	—	—	—	—
Tar .. .. .	22	7	1	3	4	243
Ghana—						
Coal .. .. .	36,870	49,284	28,451	41,033	44,581	26,886
Coke and patent fuel .. .. .		4,748	374	588	314	428
Tar .. .. .		836	338	940	140	164
Kenya—						
Coal (c) .. .. .	38,900	35,528	23,518	40,053	32,652	52,729
Coke .. .. .	2,384	1,437	1,562	1,572	1,567	1,143
Tar .. .. .	6	(a) 6	—	(a) 1	5	12
Malawi—						
Coal .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	61,472	<i>n.a.</i>
Coke .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	114	<i>n.a.</i>
Mauritius—						
Coal .. .. .	2,384	5,756	3,014	2,085	1,966	1,703
Coke .. .. .	466	255	198	182	213	240
Tar .. .. .	23	21	86	134	21	22
Nigeria—						
Coal, coke and patent fuel .. .. .	901	2,446	1,394	1,399	4,285	2,618
Tar .. .. .	1,343	1,138	1,137	1,261	666	815
Rhodesia (e)—						
Coal .. .. .	56,765	65,020	62,421	59,129	12,285	9,830
Coke .. .. .	134	35	241	35		
Tar .. .. .	571	809	523	171		
St. Helena—						
Coal .. .. .	49	67	94	110	63	73
Sierra Leone—						
Coal, coke and briquettes .. .. .	11,199	10,649	15,321	4,452	80	4,070
Tar .. .. .	140	(d) 208	193	113	139	93
Tanzania—						
Coal .. .. .	349	231	407	383	144	200
Coke .. .. .	424	516	456	500	419	315
Tar .. .. .	24	14	5	10	7	9
Uganda—						
Coal .. .. .	40	44	80	72	114	82
Coke .. .. .	82	76	134	456	430	122
Tar .. .. .	13	16	20	4	10	2
Zambia—						
Coal .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	962,396	1,142,052
Coke briquettes .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	64,711	59,178
Tar .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	642	563

\*For ammonium sulphate, etc., see Nitrogen Compounds, pages 238-245.

(a) Excess of re-exports.

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

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

(d) Total imports.

(e) Figures for years 1960 to 1963 relate to Rhodesia and Nyasaland.

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

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
<i>(cont.)</i>						
Canada—						
Anthracite .. ..	1,098,667	858,329	790,336	739,071	579,802	571,311
do. dust .. ..	59,786	86,454	26,035	17,470	3,982	262
Bituminous .. ..	10,681,129	9,811,048	10,214,035	10,936,295	12,798,206	14,242,996
do. (a) .. ..	257,114	222,549	218,678	236,357		
Briquettes .. ..	13,864	8,571	6,793	5,752	6,375	7,084
Coke .. ..	265,810	257,829	219,945	209,473	281,931	508,844
Tar .. ..	2,155	1,756	2,528	2,630	104,131	101,894
Pitch .. ..	71,653	95,059	84,191	101,384		
Bahamas—						
Coal .. ..	4	2	3	1	7	6
Barbados—						
Coal, coke, and patent fuel .. ..	810	578	603	319	330	332
Bermuda—						
Bituminous (b) .. ..	10	10	10	369	<i>n.a.</i>	38
British Honduras—						
Coal and coke .. ..	24	17	28	14	18	27
Grenada—						
Coal .. ..	6	3	3	2	2	—
Coke .. ..	10	—	—	—	—	10
Jamaica—						
Coal (b) .. ..	255	210	206	154	87	61
Coke .. ..	406	526	506	657	772	1,304
Tar .. ..	28	22	20	33	42	29
St. Kitts—						
Coal, coke and patent fuel .. ..	17	10	—	5	10	9
St. Lucia—						
Coal .. ..	25	19	9	10	12	15
Tar .. ..	4	—	3	—	6	6
St. Vincent—						
Coal .. ..	2	3	3	—	<i>n.a.</i>	3
Trinidad and Tobago—						
Coal (b) .. ..	1,289	(c) 572	1,007	399	796	<i>n.a.</i>
Coke .. ..	89	161	113	94	221	<i>n.a.</i>
British Guiana—						
Coal .. ..	224	264	136	<i>n.a.</i>	(c) 145	88
Coke .. ..	42	102	84	<i>n.a.</i>	3	16
Patent fuel .. ..	20	43	85	<i>n.a.</i>	103	80
Tar .. ..	223	424	172	<i>n.a.</i>	138	99
Falkland Islands—						
Coal .. ..	427	—	5	123	115	166
Coke .. ..	243	129	—	200	—	2
Aden—						
Coal (b) .. ..	1,452	1,635	—	1,246	<i>n.a.</i>	<i>n.a.</i>
Ceylon—						
Coal (b) .. ..	256,077	137,141	139,005	142,847	172,534	136,395
Coke .. ..	240	2,246	530	598	1,925	268
Tar .. ..	113	43	58	54	2	4,269
Cyprus—						
Coal (b) .. ..	417	1	82	283	401	201
Coke .. ..	165	186	196	232	215	372
Tar and pitch .. ..	—	5	3	1	8	5
Hong Kong—						
Coal .. ..	r 216,786	r 232,779	r 211,343	r 184,958	168,979	167,361
Coke .. ..	r 5,269	r 3,922	r 4,007	r 4,002	6,191	5,500

 (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	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES (cont.)</b>						
India—						
Coal .. .. .	1,302	3,482	10,832	2,718	1,784	2,451
Coke .. .. .	—	533	3,027	100	422	579
Tar and pitch (b) ..	2,543	1,410	155	59	18	23
Goa—						
Coal .. .. .	8,052	n.a.	n.a.	(e)	(e)	(e)
Malaya—						
Anthracite .. .. .	23,931	26,964	18,957	27,099	23,832	19,406
Bituminous (c) .. ..	9,669	14,244	19,781	6,013	4,656	—
Coke .. .. .	5,805	6,862	6,309	9,608	7,892	9,011
Tar .. .. .	150	507	1,836	2,577	1,532	628
Pakistan—						
Coal .. .. .	2,062,536	1,240,380	1,311,602	1,231,145	710,125	n.a.
Coke .. .. .	28,297	—	—	—	488	n.a.
Tar and pitch .. .. .	6,039	591	7,130	267	3,699	n.a.
Australia (a)—						
Coal .. .. .	7,678	6,629	4,792	7,929	12,816	(f) 2,700
Coke .. .. .	8,802	9,768	44	29,052	37,284	51,490
Tar and pitch .. .. .	4,602	2,846	3,696	8,343	7,553	12,064
Fiji—						
Coal .. .. .	7,087	1,926	7,026	6,324	4,008	3,029
Coke .. .. .	211	211	165	224	336	314
Tar .. .. .	254	11	43	35	21	29
New Guinea (a)—						
Coal and coke .. .. .	26	19	18	8	n.a.	n.a.
New Zealand—						
Coal .. .. .	132	9,784	7,535	(a) 2,906	(a) 588	(a) 6
Coke .. .. .	55	357	100	(a) 88	(a) 92	(a) 109
Tar .. .. .	5,499	5,688	5,383	(a) 219	(a) 572	n.a.
Pitch .. .. .	722	834	367	(a) 535	(a) 1,700	n.a.
Sabah—						
Coal and coke .. .. .	33	64	66	69	63	75
Papua (a)—						
Coal and coke .. .. .	25	21	17	16	n.a.	n.a.
Sarawak—						
Coal and coke .. .. .	171	(d) 23	(d) 19	20	21	12
Tar .. .. .	144	127	92	95	557	219
Western Samoa—						
Coal and coke .. .. .	155	5	30	3	31	12
Irish Republic—						
Anthracite .. .. .	54,979	56,098	57,297	r 56,359	51,683	46,108
Bituminous (c) .. ..	1,595,192	1,716,304	1,405,217	r 1,378,503	1,285,898	1,222,375
Coke .. .. .	7,248	6,986	15,613	12,058	12,384	11,914
Patent fuel .. .. .	2,524	2,777	2,692	3,779	3,400	5,991
Tar .. .. .	5,215	6,890	10,912	3,588	4,337	2,587
<b>OTHER COUNTRIES</b>						
Albania—						
Coke .. .. .	8,192	5,860	17,676	5,399	n.a.	n.a.
Austria—						
Coal .. .. .	3,661,335	3,455,803	3,593,228	3,888,509	3,748,377	3,539,692
Brown coal .. .. .	66,233	42,785	40,868	85,697	118,087	113,915
Coke .. .. .	887,590	758,057	793,662	900,602	859,910	893,134
Briquettes .. .. .	537,741	501,363	610,142	684,744	631,190	601,447
Tar, pitch, etc. .. ..	6,339	8,516	8,247	19,336	17,830	17,182

(a) Years ended June 30 of that stated.

(e) With effect from April 1963, figures included

(b) Years ending March 31 following that stated.

with those of India.

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

(d) Coke only

(f) Excess of re-exports..

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

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
<b>Belgium-Luxemburg</b>						
<b>E.U.—</b>						
Coal .. .. .	4,061,418	4,169,341	4,858,653	7,223,635	6,904,132	6,799,998
do. coke .. .. .	4,071,186	4,083,023	3,917,714	3,830,069	4,243,848	3,998,881
do. briquettes .. .. .	127,624	158,173	163,814	191,788	236,608	328,512
Brown coal .. .. .	—	—	26	—	—	—
do. do. coke .. .. .	36	169	239	93	<i>n.a.</i>	1,071
do. do. briquettes .. .. .	221,524	225,871	233,338	246,536	223,453	195,423
Tar .. .. .	22,441	31,995	31,829	26,227	34,372	37,641
Pitch .. .. .	555	4,801	26,226	102,267	93,506	17,273
<b>Czechoslovakia—</b>						
Coal .. .. .	2,364,000	3,302,000	3,959,000	4,277,000	4,964,000	4,466,000
<b>Denmark—</b>						
Coal .. .. .	3,894,049	3,721,971	3,867,021	3,904,546	3,718,425	3,382,984
Coke .. .. .	1,320,859	1,169,024	1,339,783	1,394,703	1,127,848	843,074
Coal briquettes .. .. .	8,359	5,041	7,485	8,031	2,590	2,307
Brown coal briquettes .. .. .	168,444	180,908	215,611	189,954	156,788	148,084
Coke briquettes .. .. .	24,154	6,332	14,407	3,433	20,937	31,314
Tar .. .. .	80	40	70	74	95	73
Pitch .. .. .	264	247	149	234	195	329
<b>Faroe Islands—</b>						
Coal .. .. .	971	1,745	1,218	3,584	2,275	2,280
<b>Finland—</b>						
Anthracite .. .. .	204,920	172,970	243,527	277,987	255,752	184,201
Other coal .. .. .	2,685,505	2,562,470	2,335,604	1,870,165	2,119,791	2,293,196
Briquettes .. .. .	8,139	6,974	7,725	8,169	5,990	2,606
Coke .. .. .	225,849	256,517	350,939	346,291	873,339	818,746
Tar .. .. .	92	58	44	29	13	53
<b>France—</b>						
Anthracite .. .. .	1,842,949	2,168,081	2,505,764	3,794,565	4,008,663	3,314,916
Bituminous .. .. .	8,047,083	6,977,579	7,580,043	11,882,693	9,932,549	8,425,965
Lignite .. .. .	79	1,310	1,528	1,724	1,826	3,998
Coke .. .. .	4,972,098	5,481,533	4,602,265	5,442,467	4,860,499	4,391,403
Coal briquettes .. .. .	418,812	432,283	515,140	797,734	762,762	408,080
Brown-coal briquettes .. .. .	379,278	472,351	490,385	493,147	535,745	374,355
Tar and pitch .. .. .	419,092	366,350	357,211	431,329	473,642	307,538
<b>Germany (Federal)—</b>						
Coal .. .. .	6,583,296	6,678,059	7,180,036	7,639,393	6,946,361	7,052,934
Brown coal .. .. .	1,061,554	1,098,146	1,103,717	1,143,996	1,011,539	915,330
Coke .. .. .	530,961	388,257	431,969	426,052	358,683	526,238
Coal briquettes .. .. .	214,434	212,436	371,132	643,118	366,969	300,623
Brown-coal briquettes .. .. .	85,218	161,321	232,212	401,915	196,801	47,950
Tar and pitch .. .. .	53,899	54,023	66,060	97,737	112,208	94,410
<b>Germany (East)—</b>						
Coal .. .. .	7,901,000	7,811,000	8,741,000	8,709,000	10,247,000	9,315,000
Brown coal .. .. .	5,444,000	5,858,000	5,637,000	5,696,000	5,363,000	5,136,000
Coke .. .. .	2,487,000	2,790,000	2,919,000	3,179,000	3,257,000	3,154,000
<b>Greece—</b>						
Anthracite .. .. .	8,765	5,025	9,901	12,032	9,117	8,740
Other coal .. .. .	197,097	196,107	169,363	9,076	11,626	15,274
Coke .. .. .	25,297	31,037	30,816	108,879	167,066	203,163
Tar and pitch .. .. .	237	392	853	444	699	463
<b>Hungary—</b>						
Coal .. .. .	1,408,160	1,697,589	1,685,207	2,473,615	3,227,785	2,663,000
Coke .. .. .	1,025,560	930,947	950,013	1,058,855	1,137,482	2,102,000
Pitch .. .. .	3,406	613	313	363	98	—
<b>Iceland—</b>						
Coal .. .. .	21,136	17,118	15,881	10,555	12,494	7,895
Coke .. .. .	2,256	1,296	2,090	1,109	860	925
Tar .. .. .	16	41	6	19	35	20

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

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Italy—						
Anthracite .. ..	8,267,162	} 9,548,672	10,266,480	10,500,222	9,876,732	{ 9,350,245
Bituminous .. ..	1,388,111					
Lignite .. .. .	18,833	23,062	24,002	39,037	31,382	47,811
Coke .. .. .	247,523	237,213	320,733	663,851	359,281	265,710
Briquettes .. ..	322,037	363,202	371,889	386,161	468,570	290,594
Tar .. .. .	465	411	127	82	69	1,402
Pitch .. .. .	600	1,281	1,538	2,123	6,329	2,921
Netherlands—						
Coal .. .. .	6,986,864	7,045,810	8,782,016	9,791,606	9,152,089	6,994,381
Brown coal .. ..	180,280	235,963	211,995	187,806	200,508	146,412
Coke .. .. .	365,316	306,425	354,820	515,303	305,220	276,313
Briquettes .. ..	143,717	116,833	132,803	196,544	91,661	53,925
Brown-coal briquettes	246,445	234,560	237,193	260,484	157,358	143,413
Tar .. .. .	29,995	54,173	30,314	56,980	81,235	74,165
Pitch .. .. .	18,410	44,336	41,048	48,515	53,168	32,231
Norway—						
Coal (a) .. .. .	310,814	284,648	247,957	220,957	272,238	358,969
Coke .. .. .	735,568	690,157	664,110	813,909	754,848	670,000
Briquettes .. ..	122	347	134	191	—	11
Tar and pitch ..	43,832	42,682	45,002	52,300	54,235	61,876
Poland—						
Anthracite .. ..	19,400	18,500	<i>n.a.</i>	18,700	19,400	<i>n.a.</i>
Other coal .. ..	763,600	895,300	1,025,500	1,245,000	1,259,100	1,191,000
Brown-coal briquettes	402,600	582,900	501,900	511,900	620,900	627,000
Portugal—						
Anthracite .. ..	8,141	28,592	9,107	11,926	10,118	10,099
Other coal .. ..	336,391	338,756	355,753	438,593	389,180	410,334
Coke .. .. .	40,950	187,288	173,477	205,693	241,806	213,143
Briquettes .. ..	245	2,506	1,244	712	761	681
Tar and pitch ..	3,206	2,130	2,978	2,036	2,468	6,396
Roumania—						
Coal .. .. .	409,700	433,700	738,100	686,900	706,500	695,100
Coke .. .. .	645,400	472,100	707,300	903,500	930,700	915,100
Spain—						
Anthracite .. ..	31	22	211	<i>n.a.</i>	40,586	80,082
Bituminous .. ..	302,858	210,859	1,510,191	1,656,395	1,779,888	1,605,027
Coke .. .. .	36,494	283,845	301,152	125,716	99,826	65,664
Tar and pitch ..	37,770	26,018	93,896	71,645	53,163	52,136
Sweden—						
Anthracite .. ..	50,466	51,697	51,716	69,614	79,443	95,511
Other coal .. ..	1,847,585	1,776,101	1,833,285	1,679,055	1,882,835	1,581,449
Coke .. .. .	1,794,990	1,568,373	1,499,347	1,586,513	1,620,546	1,381,425
Briquettes .. ..	14,381	11,468	14,872	16,012	5,575	2,643
Tar, pitch, etc. ..	28,207	25,954	12,372	10,240	6,394	303
Switzerland—						
Coal .. .. .	1,921,852	1,640,619	1,663,745	1,969,973	1,356,028	1,097,145
Lignite .. .. .	544	472	260	338	319	276
Coke .. .. .	517,548	448,486	516,729	680,885	483,024	468,173
Briquettes .. ..	227,343	247,809	223,010	266,082	217,696	176,602
Tar and pitch ..	21,010	21,397	20,252	20,837	23,079	21,355
U.S.S.R.—						
Coal .. .. .	4,700,000	4,600,000	4,800,000	5,000,000	5,000,000	6,700,000
Coke .. .. .	647,600	637,800	597,400	643,700	650,600	652,000
Yugoslavia—						
Anthracite .. ..	134,857	142,531	120,460	118,559	136,773	149,548
Other coal .. ..	1,226,643	1,307,354	1,227,207	1,319,178	1,858,798	2,001,488
Coke .. .. .	298,911	193,003	240,130	225,451	188,584	109,256
Coke dust .. .. .	1,055	2,932	3,017	797	—	—
Tar and pitch ..	4,063	3,821	1,082	673	76	62

(a) Excluding coal imported from Spitzbergen.



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

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Algeria—						
Coal .. .. .	328,045	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Coke .. .. .	211	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Briquettes .. .. .	3,659	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Tar and pitch .. .. .	15,438	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Angola—						
Coal .. .. .	44,566	23,234	15,362	4,120	21,202	19,912
Coke .. .. .	1,594	1,507	1,425	5,328	9,583	750
Tar and pitch .. .. .	<i>n.a.</i>	2,905	465	262	160	243
Cameroun—						
Coal, coke, etc... .. .	733	976	306	469	377	440
Canary Islands—						
Coal .. .. .	1,008	—	6,821	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Cape Verde Islands—						
Coal (a) .. .. .	59	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	965
Egypt—						
Coal .. .. .	44,673	45,259	56,836	28,724	296,594	402,462
Coke .. .. .	127,774	278,819	235,039	263,767	212,589	32,000
Briquettes .. .. .	104	—	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Tar and pitch .. .. .	82	695	1,073	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Equatorial African Community—						
Coal, coke, briquettes .. .. .	229	110	122	<i>n.a.</i>	143	219
Ethiopia (b)—						
Coal .. .. .	8,681	9,585	<i>n.a.</i>	9,089	1,800	<i>n.a.</i>
French Somaliland—						
Coal .. .. .	60	—	—	61	—	—
Ivory Coast—						
Coal and briquettes .. .. .	59	63	30	55	52	108
Coke .. .. .	128	172	<i>n.a.</i>	25	236	151
Libya—						
Coal, coke, briquettes .. .. .	32,781	37,763	6,082	8,426	2,271	6,644
Malagasy Republic—						
Coal and briquettes .. .. .	17,362	4,593	5,332	14,295	13,113	14,705
Coke .. .. .	34	92	46	42	88	
Tar and pitch .. .. .	56	59	38	72	55	
Melilla—						
Coal .. .. .	<i>n.a.</i>	—	3,470	<i>n.a.</i>	<i>n.a.</i>	92
Morocco—						
Coal .. .. .	81,391	84,185	69,353	92,487	105,007	33,383
Coke .. .. .	8,508	7,230	6,629	8,862	14,187	9,707
Tar .. .. .	3	1	—	505	26	—
Pitch .. .. .	1,303	861	1,002		1,044	1,544
Mozambique—						
Coal .. .. .	288,210	299,597	321,041	287,191	316,592	337,338
Coke .. .. .	1,025	1,497	1,047	1,202	1,402	1,317
Tar, pitch and asphalt.. .. .	4,716	5,268	6,061	4,303	8,014	6,435
Senegal—						
Coal and briquettes .. .. .	112	78	27	182	685	622
Coke .. .. .	234	294	279	131	131	261

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

(b) Years ended September 10 of that stated.

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

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
<b>South Africa—</b>						
Coal .. .. .	1,818	2	57,981	48,728	96,489	<i>n.a.</i>
Coke .. .. .	3	4	11	5	13	<i>n.a.</i>
<b>Sudan—</b>						
Coal .. .. .	10,162	15,748	8,261	17,630	—	6,262
Coke .. .. .	1,577	417	1,477	591	295	895
Tar .. .. .	79	31	118	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
<b>Togo—</b>						
Coal and briquettes ..	—	566	32	73	104	25
<b>Tunisia—</b>						
Coal .. .. .	33,467	42,656	27,051	28,187	33,709	30,053
Coke .. .. .	10,012	9,143	8,666	8,752	6,510	20,670
Tar and pitch .. .. .	9	3	75	21	15	78
<b>Costa Rica—</b>						
Coal .. .. .	53	27	38	36	45	35
Coke .. .. .	83	153	79	149	137	78
<b>Dominican Republic—</b>						
Coal, coke, briquettes, etc. .. .. .	384	650	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
<b>Greenland—</b>						
Coal .. .. .	17,485	14,489	14,950	16,893	9,763	8,672
<b>Guatemala—</b>						
Coal .. .. .	123	56	149	63	32	60
Coke .. .. .	136	150	45	215	139	202
<b>Honduras—</b>						
Coal .. .. .	128	140	182	94	186	76
Coke .. .. .	—	10	5	3	10	10
<b>Mexico—</b>						
Coal .. .. .	47,137	49,375	46,048	44,055	48,890	<i>n.a.</i>
Coke .. .. .	6,046	5,954	9,022	20,910	27,168	<i>n.a.</i>
Tar .. .. .	1,253	296	548	2,615	3,536	<i>n.a.</i>
<b>Nicaragua—</b>						
Coal .. .. .	16	9	12	14	14	15
Coke .. .. .	72	74	50	69	41	67
<b>Panama Republic—</b>						
Coal .. .. .	30	19	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
<b>Salvador—</b>						
Coal .. .. .	111	93	99	57	97	101
Coke .. .. .	119	153	205	204	259	255
Tar .. .. .	57	58	44	71	61	55
<b>St. Pierre and Miquelon—</b>						
Coal .. .. .	10,920	9,912	7,358	10,032	8,409	6,898
<b>United States—</b>						
Anthracite .. .. .	1,318	707	6,771	4,129	} 272,011	175,911
Bituminous .. .. .	123,093	146,660	206,759	236,896		
Lignite .. .. .	10	—	—	<i>n.a.</i>		
Slack and culm. . . .	109,482	—	762	<i>n.a.</i>		
Coke .. .. .	112,808	112,962	126,681	136,246	92,220	80,018
Briquettes .. .. .	4,937	6,552	7,496	4,125	10,351	11,244
Tar and pitch .. .. .	21,088	18,412	33,551	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
<b>Argentina—</b>						
Coal .. .. .	1,379,851	1,196,334	609,998	756,796	680,345	646,400
Coke .. .. .	69,092	44,532	22,259	1,886	68,243	80,583
Tar and pitch .. .. .	391	658	412	68	293	73

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

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Bolivia—						
Coal and coke .. ..	2,821	1,786	1,105	1,265	1,229	761
Brazil—						
Coal .. .. .	1,018,764	844,645	877,873	852,622	1,330,639	1,031,260
Coke .. .. .	29,769	43,160	27,061	38,606	150,166	122,837
Chile—						
Coal .. .. .	262,640	364,594	871,900	101,765	<i>n.a.</i>	<i>n.a.</i>
Coke .. .. .	781	628	628	342	<i>n.a.</i>	<i>n.a.</i>
Tar and pitch .. ..	24,669	21,900	20,104	26,776	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Coal .. .. .	1	18	—	14	263	13
Coke .. .. .	30	49	23	11	—	—
Peru—						
Coal .. .. .	—	—	—	1,065	51	1,108
Coke .. .. .	1,828	18,365	4,373	8,400	2,678	7,987
Tar .. .. .	10	131	128	44	37	11
Surinam—						
Coal .. .. .	32	<i>n.a.</i>	117	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Uruguay—						
Coal .. .. .	74,892	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Coke .. .. .	3,269	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Venezuela—						
Coal .. .. .	97	42	3,091	14,704	694	9,930
Coke .. .. .	578	12,958	122,964	124,895	179,064	190,500
Burma—						
Coal .. .. .	336,536	353,621	325,328	205,921	205,911	118,262
Coke .. .. .	10,790	7,493	11,413	5,531	1,080	5
Formosa—						
Coke .. .. .	—	—	—	7,095	5,622	17,307
Tar and pitch .. ..	300	276	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Indonesia—						
Coal .. .. .	34,281	25,075	17,360	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Coke .. .. .	254	644				
Tar .. .. .	212	53				
Iraq—						
Coal .. .. .	521	384	681	500	290	<i>n.a.</i>
Coke .. .. .	1,696	383	762	876	841	<i>n.a.</i>
Tar and pitch .. ..	5,466	2,838	162	107	—	<i>n.a.</i>
Israel—						
Anthracite .. .. .	34,174	17,609	20,122	12,730	18,269	2,600
Other coal .. .. .	70					
Coke .. .. .	11,544	27,110	25,598	7,517	8,548	6,337
Japan—						
Anthracite .. .. .	814,411	1,102,018	1,288,793	10,966,639	13,023,813	16,810,362
Other coal .. .. .	7,346,876	9,881,599	10,452,607			
Coke .. .. .	2	180,054	116,427			
Tar and pitch .. ..	25,498	23,300	7,528			
Korea (South)—						
Coal .. .. .	35,146	277,236	177,175	128,152	158,549	98,015
Coke .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	3,585	4,474	16,900
Lebanon—						
Coal and briquettes ..	1,083	1,033	2,542	2,072	4,457	<i>n.a.</i>
Coke .. .. .	4,036	2,929	2,846	8,485	9,955	<i>n.a.</i>
Philippine Republic—						
Coal .. .. .	23	2	78	231	39	<i>n.a.</i>
Coke .. .. .	8,849	7,523	12,191	14,373	11,339	<i>n.a.</i>
Tar .. .. .	156	725	588	837	59	<i>n.a.</i>
Syria—						
Coal .. .. .	274	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Coke .. .. .	2,285	2,239	1,918	1,057	1,995	3,116
Briquettes .. .. .	1,859	(a) 2,088	(a) 1,599	(a) 1,901	(a) 2,290	(a) 2,221

(a) Including coal.

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

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Thailand—						
Coal .. .. .	10,860	—	—	—	—	—
Coke .. .. .	2,618	2,389	2,259	3,177	1,996	2,843
Tar .. .. .	37	48	40	38	4	12
Vietnam (South)—						
Coal, coke and briquettes	10,553	5,184	15,800	9,000	23,000	14,760
French Polynesia—						
Coal .. .. .	—	25	12	16	16	21
New Caledonia—						
Coal .. .. .	136,941	66,328	46,759	79,676	182,726	<i>n.a.</i>
Coke .. .. .	128,554	199,534	101,809	91,091	100,405	<i>n.a.</i>

**COBALT**  
**PRODUCTION OF COBALT ORE**  
*(Metal content)*

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Zambia (a) .. ..	1,862	1,721	846	959	1,394	1,520
Canada (c) .. ..	1,593	1,421	1,554	1,350	1,422	1,696
Australia (d) .. ..	14	17	15	17	17	18
<b>OTHER COUNTRIES</b>						
Congo Republic (b) ..	8,092	8,195	9,530	7,260	7,555	8,256
Morocco .. ..	1,251	1,270	1,413	1,349	1,651	1,644
Cuba (e) .. ..	61	—	162	171	<i>n.a.</i>	<i>n.a.</i>
<b>TOTAL*</b> .. ..	<b>16,000</b>	<b>15,000</b>	<b>16,000</b>	<b>13,000</b>	<b>14,000</b>	<b>15,000</b>

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

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

(a) Refined metal plus estimated cobalt content of cobalt alloy and other cobalt.

(b) Electrolytic cobalt plus recoverable cobalt in cobalt alloy.

(c) Metal recovered from smelter products plus cobalt contained in cobalt ores and residues exported.

(d) Estimated cobalt content of cobalt oxide.

(e) Recoverable cobalt in sulphide. United States Bureau of Mines' estimate.

**METAL PRODUCTION OF COBALT**

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Zambia .. ..	<i>r</i> 961	<i>r</i> 679	715	671	1,341	1,520
<b>OTHER COUNTRIES</b>						
France .. ..	525	540	621	740	737	875
Germany (Federal) (a) ..	1,501	1,591	1,620	1,484	1,422	1,335
Norway (c) .. ..	470	546	592	615	698	810
Congo Republic .. ..	5,530	6,384	8,929	6,715	7,057	8,231
United States (b) .. ..	688	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

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

(a) Obtained chiefly from pyrite sinter imported from Cyprus, Finland, Norway, Spain, Sweden and other countries. Including secondary metal.

(b) In addition, the following amounts of cobalt oxide, hydrate, salts and driers were produced (in terms of cobalt content):

Year	Long tons	Year	Long tons
1960 ..	699	1963 ..	696
1961 ..	601	1964 ..	772
1962 ..	645	1965 ..	880

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

## EXPORTS OF COBALT, ETC.

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—						
Cobalt (a) .. ..	42	44	42	110	90	157
Cobalt oxide .. ..	244	274	332	359	462	368
Other compounds .. ..	648	684	601	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Zambia (e)—						
Cobalt .. ..	1,176	540	880	529	1,443	1,411
Cobalt alloy .. ..	131	5	—	—	31	<i>n.a.</i>
Canada—						
Cobalt .. ..	377	270	242	330	265	130
Cobalt alloys .. ..	1	—	—	—	—	—
Cobalt oxides and salts ..	525	679	728	490	739	631
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Cobalt (b) (c) .. ..	2,449	1,046	2,352	671	951	2,373
France—						
Ingots and scrap .. ..	87	(a) 228	(a) 429	(a) 451	(a) 564	(a) 639
Cobalt salts .. ..	18	6	11	11	10	31
Germany (Federal)—						
Cobalt (c) .. ..	788	820	1,002	872	776	626
Cobalt oxide .. ..	50	16	19	30	24	456
Norway—						
Cobalt .. ..	382	626	635	629	559	872
Sweden—						
Cobalt .. ..	17	15	13	4	9	2
U.S.S.R.—						
Cobalt .. ..	214	261	200	197	197	200
Congo Republic (d)—						
Cobalt .. ..	6,000	6,400	8,900	6,700	<i>n.a.</i>	<i>n.a.</i>
Cobalt-copper ingots .. ..	5,600	4,400	1,500	1,300	<i>n.a.</i>	<i>n.a.</i>
Morocco—						
Ore .. ..	12,027	5,243	2,390	6,988	28,647	6,151
United States—						
Ore and metal (c) .. ..	816	926	865	958	573	555
Japan—						
Cobalt oxide .. ..	<i>n.a.</i>	<i>n.a.</i>	1	3	4	21

(a) Including alloys.

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

(c) Including alloys and scrap.

(d) Estimated.

(e) Figures for years 1960 to 1963 relate to Rhodesia and Nyasaland.

## IMPORTS OF COBALT, ETC.

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom—						
Cobalt .. ..	1,653	1,417	1,238	} 378 n.a.	1,528	1,803
Cobalt alloys .. ..	18	12	3			
Cobalt oxide .. ..	808	932	1,048			
Canada—						
Cobalt oxide .. ..	9	13	18	13	n.a.	n.a.
Hong Kong—						
Cobalt oxide .. ..	r 37	r 16	r 34	45	35	37
India—						
Cobalt oxide .. ..	r 24	r 44	r 40	r 32	34	33
Australia (a)—						
Cobalt ingots, etc. .. ..	83	46	37	68	62	50
Cobalt oxide .. ..	9	17	12	10	23	30
Cobalt salts .. ..	69	59	3	2	11	6
New Zealand—						
Cobalt salts .. ..	330	372	172	(a) 1	(a) —	n.a.
<b>OTHER COUNTRIES</b>						
Denmark—						
Cobalt .. ..	40	7	12	10	26	21
France—						
Ore .. ..	6,678	9,162	9,542	10,356	10,228	11,488
Ingots and scrap .. ..	172	(c) 157	(c) 168	(c) 266	(c) 227	(c) 308
Cobalt oxide .. ..	115	68	79	80	88	129
Germany (Federal)—						
Cobalt (b) .. ..	857	758	570	459	667	775
Cobalt oxide .. ..	236	209	211	212	257	259
Italy—						
Cobalt (b) .. ..	453	417	220	371	313	271
Cobalt oxide .. ..	126	132	147	276	243	216
Netherlands—						
Cobalt .. ..	172	213	140	120	161	244
Portugal—						
Cobalt oxide .. ..	2	1	5	4	3	2
Sweden—						
Cobalt .. ..	321	308	150	130	233	188
Yugoslavia—						
Cobalt .. ..	43	21	36	43	50	25
Mexico—						
Cobalt oxide .. ..	36	29	26	32	45	n.a.
United States—						
Ore .. ..	2,885	—	—	13	n.a.	n.a.
Co content .. ..	140	—	—	12	n.a.	n.a.
Cobalt metal .. ..	4,822	4,480	5,257	4,608	5,077	6,628
Cobalt oxide .. ..	651	304	436	209	676	422
Cobalt salts .. ..	103	71	54	42	42	49
Argentina—						
Cobalt metal .. ..	n.a.	n.a.	14	22	46	46
Cobalt salts .. ..	36	36	7	12	23	15
Brazil—						
Cobalt oxide .. ..	45	30	43	36	31	30
Japan—						
Ore .. ..	1	—	n.a.	—	—	—
Ingots, slabs and grains .. ..	1,130	1,546	1,093	853	1,603	1,270
Cobalt oxide .. ..	230	282	240	247	314	278

(a) Years ended June 30 of that stated.

(b) Including alloys and scrap.

(c) Including alloys.

**COPPER**  
**PRODUCTION OF COPPER ORE**  
*(Metal content)*

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom .. ..	16	14	6	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Kenya ( <i>f</i> ) .. ..	1,200	1,800	1,500	1,500	1,400	1,400
Rhodesia .. ..	13,506	13,610	13,524	16,508	16,376	17,678
Tanzania .. ..	1,254	99	—	—	—	—
Uganda ( <i>h</i> ) .. ..	14,515	13,163	15,331	15,960	17,971	16,870
Zambia .. ..	567,255	565,656	553,442	578,784	622,362	684,753
Canada ( <i>g</i> ) .. ..	392,198	<i>r</i> 392,043	408,380	404,070	434,732	461,827
Cyprus ( <i>e</i> ) .. ..	34,907	28,201	24,763	25,893	16,530	18,960
India .. ..	8,988	8,910	<i>r</i> 10,054	10,000	10,000	10,000
Australia .. ..	109,435	95,626	106,972	<i>r</i> 112,967	104,050	90,751
New Zealand .. ..	—	—	10	20	70	10
<b>TOTAL .. ..</b>	<b>1,143,000</b>	<b><i>r</i> 1,119,000</b>	<b>1,134,000</b>	<b>1,166,000</b>	<b>1,223,000</b>	<b>1,302,000</b>
Irish Republic .. ..	6,145	5,834	2,350	—	—	—
<b>OTHER COUNTRIES</b>						
Albania ( <i>c</i> ) .. ..	2,100	2,300	2,500	2,500	2,500	2,500
Austria .. ..	1,993	1,926	2,003	1,902	1,588	1,551
Bulgaria .. ..	13,900	16,000	18,000	18,000	18,000	( <i>b</i> ) 18,000
Finland .. ..	28,000	33,500	34,600	33,400	31,800	29,300
France ( <i>d</i> ) .. ..	553	359	221	270	263	279
Germany—						
Federal Republic .. ..	1,750	1,632	1,815	2,246	1,557	960
East ( <i>b</i> ) .. ..	20,000	20,000	20,000	20,000	20,000	20,000
Italy .. ..	2,948	2,373	2,655	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Norway .. ..	15,148	13,732	15,290	14,040	14,737	14,534
Poland .. ..	10,500	11,900	13,500	13,000	14,200	15,000
Portugal .. ..	<i>r</i> 3,097	<i>r</i> 2,992	<i>r</i> 3,341	3,238	4,296	4,285
Spain ( <i>i</i> ) .. ..	8,047	9,433	7,769	6,727	9,716	7,821
Sweden .. ..	17,201	17,899	18,789	<i>r</i> 16,428	15,934	15,538
U.S.S.R. ( <i>b</i> ) .. ..	500,000	550,000	550,000	600,000	675,000	700,000
Yugoslavia .. ..	32,751	37,310	50,900	61,112	62,186	61,562
Algeria .. ..	117	599	767	( <i>b</i> ) 1,000	1,023	956
Angola .. ..	1,882	912	1,754	<i>r</i> 63	—	—
Congo Republic ( <i>h</i> ) .. ..	297,523	290,574	292,296	266,692	272,623	284,040
Congo, Republic of .. ..	—	158	827	286	—	—
Morocco .. ..	1,240	1,710	2,458	1,777	1,720	1,784
South Africa .. ..	45,399	51,743	45,638	54,279	58,552	59,500
South West Africa .. ..	20,000	25,000	23,000	32,000	34,000	39,000
Cuba .. ..	11,659	( <i>b</i> ) 5,000	( <i>b</i> ) 5,500	( <i>b</i> ) 6,000	( <i>b</i> ) 6,000	( <i>b</i> ) 6,000
Haiti .. ..	900	<i>r</i> 2,816	<i>r</i> 4,212	<i>r</i> 5,791	4,950	3,897
Mexico ( <i>d</i> ) .. ..	59,377	48,535	46,381	54,979	51,676	68,070
Nicaragua .. ..	4,820	6,178	7,157	7,168	9,094	10,025
United States ( <i>d</i> ) .. ..	964,437	1,040,317	1,096,804	1,083,184	1,113,196	1,206,905
Argentina .. ..	<i>r</i> 576	<i>r</i> 622	398	<i>r</i> 349	340	( <i>c</i> ) 350
Bolivia ( <i>a</i> ) .. ..	2,235	2,048	2,325	2,946	4,607	4,656

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

(b) Estimated.

(c) United States Bureau of Mines' estimate.

(d) Amount estimated as recoverable.

(e) Estimated copper content of concentrates, cement copper and cupreous pyrites exported. The copper content of copper concentrates and cement copper produced was as follows (long tons): 1960—24,000; 1961—21,600; 1962—20,400; 1963—22,000; 1964—11,300; 1965—18,000.

(f) Copper content of cement copper.

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

(h) Smelter.

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



PRODUCTION OF COPPER ORE (*cont.*)

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b> ( <i>cont.</i> )						
Brazil ( <i>c</i> ) .. ..	1,100	<i>r</i> 2,100	<i>r</i> 2,000	<i>r</i> 2,500	2,800	2,800
Chile ( <i>d</i> ) .. ..	<i>r</i> 527,916	<i>r</i> 544,616	<i>r</i> 582,300	<i>r</i> 592,028	623,541	570,000
Ecuador .. ..	99	99	155	279	181	127
Peru ( <i>d</i> ) .. ..	178,851	194,924	164,156	174,650	171,721	174,564
Burma ( <i>b</i> ) .. ..	140	110	150	170	120	140
China ( <i>a</i> ) ( <i>b</i> ) .. ..	40,000	60,000	75,000	75,000	75,000	75,000
Formosa .. ..	2,067	2,197	2,074	1,593	1,711	1,522
Israel .. ..	5,492	6,154	5,816	7,598	( <i>c</i> ) 8,000	( <i>c</i> ) 8,000
Japan .. ..	87,774	94,886	<i>r</i> 101,983	105,524	104,497	104,923
Korea (South) .. ..	300	250	550	600	600	1,100
Korea (North) ( <i>c</i> ) .. ..	5,900	5,900	7,900	7,900	10,000	12,000
Philippine Republic .. ..	43,315	51,056	53,864	62,680	59,503	60,705
Turkey ( <i>a</i> ) .. ..	25,602	19,678	25,368	24,398	25,571	25,900
<b>TOTAL</b> .. ..	<b>2,900,000</b>	<b>3,200,000</b>	<b>3,300,000</b>	<b>3,400,000</b>	<b>3,500,000</b>	<b>3,600,000</b>
<b>WORLD'S TOTAL</b> .. ..	<b>4,100,000</b>	<b>4,300,000</b>	<b>4,400,000</b>	<b>4,500,000</b>	<b>4,700,000</b>	<b>4,900,000</b>

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

(*a*) Smelter.

(*b*) Estimated.

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

(*d*) Amount estimated as recoverable.

## METAL PRODUCTION OF COPPER

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Rhodesia .. .. .	<i>n.a.</i>	11,531	12,142	14,453	14,998	17,000
Uganda .. .. .	14,515	13,163	15,331	15,960	17,971	16,870
Zambia .. .. .	558,882	559,949	537,769	567,741	633,226	674,075
Canada (a) .. .. .	355,319	354,345	331,181	322,754	355,314	380,000
India .. .. .	8,769	8,204	9,626	9,431	9,325	9,212
Australia .. .. .	71,037	62,497	87,337	88,492	80,589	73,414
<b>TOTAL .. .. .</b>	<b>1,009,000</b>	<b>1,009,689</b>	<b>993,386</b>	<b>1,018,831</b>	<b>1,111,423</b>	<b>1,171,000</b>
<b>OTHER COUNTRIES</b>						
Albania .. .. .	929	1,269	1,830	2,010	(g) 1,800	(g) 2,000
Austria (b) .. .. .	11,575	11,646	12,666	12,844	14,411	15,950
Bulgaria .. .. .	15,846	18,602	19,094	20,198	20,767	(g) 23,000
Finland .. .. .	30,481	33,800	33,394	37,200	32,653	30,040
Germany—						
Federal Republic .. .. .	61,400	63,200	67,700	65,800	67,200	73,000
East (e) .. .. .	20,000	20,000	20,000	20,000	20,000	20,000
Italy .. .. .	31	276	450	363	266	<i>n.a.</i>
Norway .. .. .	21,273	21,623	18,851	17,910	17,233	34,063
Poland .. .. .	21,400	21,800	23,700	29,100	36,000	36,800
Spain .. .. .	8,072	17,883	19,928	23,142	21,067	29,580
Sweden .. .. .	21,363	20,377	22,410	28,616	28,246	29,300
U.S.S.R. (e) .. .. .	500,000	550,000	550,000	600,000	675,000	700,000
Yugoslavia .. .. .	35,165	30,381	45,019	r 49,977	50,899	55,464
Angola .. .. .	1,400	800	700	100	—	—
Congo Republic .. .. .	297,523	290,574	292,296	266,692	272,623	284,040
South Africa .. .. .	45,399	51,395	45,451	53,647	53,652	53,591
South-West Africa .. .. .	—	—	1,195	20,485	28,061	29,237
Mexico .. .. .	57,912	46,873	44,801	53,576	50,209	66,611
United States (d) .. .. .	1,101,454	1,077,995	1,180,905	1,157,768	1,195,029	1,280,390
Bolivia (c) .. .. .	175	117	—	—	—	—
Chile .. .. .	r 497,574	r 516,301	r 548,686	r 548,379	577,292	546,000
Peru .. .. .	160,908	177,659	145,498	r 152,757	149,664	153,602
China (e) .. .. .	40,000	60,000	75,000	75,000	75,000	75,000
Formosa .. .. .	1,752	2,215	2,451	1,458	1,580	1,855
Japan (f) .. .. .	184,371	199,625	208,778	248,076	277,734	302,066
Korea (South) .. .. .	994	1,300	2,175	2,341	2,766	2,243
Korea (North) (g) .. .. .	8,000	7,900	10,000	10,000	10,000	12,000
Turkey .. .. .	25,602	19,678	25,368	24,398	25,571	25,900
<b>TOTAL .. .. .</b>	<b>3,200,000</b>	<b>3,200,000</b>	<b>3,400,000</b>	<b>3,500,000</b>	<b>3,700,000</b>	<b>3,900,000</b>
<b>WORLD'S TOTAL .. .. .</b>	<b>4,200,000</b>	<b>4,200,000</b>	<b>4,400,000</b>	<b>4,500,000</b>	<b>4,800,000</b>	<b>5,100,000</b>

(a) Copper content of blister and anode copper.

(b) Including secondary metal.

(c) Exports.

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

1960—778,025; 1961—757,981; 1962—823,061; 1963—870,023; 1964—975,912; 1965—1,062,000

(e) Estimated.

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

1960—59,818; 1961—73,005; 1962—57,381; 1963—42,463; 1964—58,569; 1965—57,837.

(g) United States Bureau of Mines' estimate.

EXPORTS OF COPPER, ETC.\*

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
<b>United Kingdom—</b>						
Unwrought—Refined ..	49,090	71,510	108,906	45,836	37,814	43,026
Alloys ..	29,393	37,576	46,518	39,652	35,385	33,954
Scrap (a) ..	444	1,435	8,010	6,276	3,227	12,536
Semi-manufactures ..	64,304	38,035	35,426	29,971	35,260	49,216
do. alloys ..	27,731	34,716	27,213	25,994	24,972	27,480
Sulphate ..	25,366	19,463	18,382	17,805	18,122	15,627
<b>Kenya—</b>						
Unwrought (a) ..	3,053	3,667	4,006	3,041	3,358	3,665
<b>Rhodesia (e)—</b>						
Ore and concentrates ..	30,880	11,802	5,593	13,854	7,022	6,868
Unwrought, Refined ..	n.a.	n.a.	n.a.	n.a.	15,160	16,467
Bar and rod ..	n.a.	n.a.	n.a.	n.a.	3,699	1,487
<b>Tanzania—</b>						
Lead concentrates (Cu content) ..	1,247	94	—	—	—	—
<b>Uganda—</b>						
Unwrought (a) ..	14,713	12,930	15,539	15,320	18,214	17,283
<b>Zambia (e)—</b>						
Matte ..	8,461	12,996	2,578	806	1,437	n.a.
<b>Unwrought—</b>						
Blister ..	151,070	146,802	118,941	132,612	151,175	150,389
Electrolytic ..	396,821	390,030	404,547	432,929	519,778	522,310
Other ..	37	8,195	12,808	12,561	n.a.	3
Semi-manufactures	172	90	985	946	n.a.	n.a.
<b>Canada—</b>						
Ore, matte, etc. (Cu content) ..	42,529	38,298	85,307	82,973	93,348	77,679
Unwrought ..	248,273	237,720	199,146	191,952	200,244	178,420
Scrap, slag, etc. ..	10,291	(d) 6,959	(d) 7,264	(d) 9,450	(d) 11,739	(d) 17,534
Scrap alloys ..	11,014	8,448	6,803	7,798	7,873	8,810
Semi-manufactures ..	18,977	25,108	25,099	30,590	39,954	41,317
do. alloys (c) ..	2,305	3,576	3,458	4,044	5,700	5,064
<b>Cyprus—</b>						
Ore and concentrates ..	115,784	101,585	92,889	108,456	61,139	69,649
Cupreous pyrites ..	248,931	138,477	105,622	103,848	86,128	173,513
Copper cement ..	2,212	1,759	1,667	3,096	3,873	4,915
<b>Hong Kong—</b>						
Scrap (a) ..	r 6,632	r 7,153	r 5,850	r 6,325	5,719	6,043
Semi-manufactures (a) ..	r 3	r 28	r 17	r —	34	3
<b>India—</b>						
Semi-manufactures(a)(b)	326	248	274	641	845	1,053
<b>Malaya—</b>						
Ore ..	1,239	1,511	1,250	1,500	1,320	1,500
Semi-manufactures (a) ..	129	222	452	120	113	126
Sulphate ..	9	12	2	10	2	8
<b>Australia—</b>						
Ores, concentrates and dross (Cu content) ..	36,210	28,012	21,828	11,881	18,982	13,395
<b>Unwrought—</b>						
Blister ..	502	1,022	—	464	40	2,115
Refined ..	13,577	23,073	16,497	24,485	13,817	20,364
Alloys ..	45	77	208	83	149	203
Scrap (a) ..	5,195	12,900	6,833	7,504	8,172	4,573
Semi-manufactures (a) ..	3,334	4,706	5,787	7,986	7,955	14,152

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

(a) Including alloys.

(b) Years ended March 31 following that stated.

(c) Including refinery shapes.

(d) Scrap only.

(e) Figures for years 1960 to 1963 relate to Rhodesia and Nyasaland.

## EXPORTS OF COPPER, ETC. (cont.)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES (cont.)						
Fiji—						
Ore .. .. .	47	—	—	20	—	22
New Zealand—						
Unwrought alloys .. .. .	33	170	8	(c) —	(c) —	n.a.
Scrap (a) .. .. .	1,824	1,439	609	(c) 616	(c) 1,451	n.a.
Semi-manufactures, alloys .. .. .	892	189	654	(c) 1,529	(c) 1,826	n.a.
Irish Republic—						
Ore and concentrates .. .. .	30,255	28,024	14,950	—	124	—
Scrap (a) .. .. .	1,826	2,120	2,045	2,918	2,804	3,465
OTHER COUNTRIES						
Austria—						
Unwrought .. .. .	1,229	1,312	1,828	1,369	2,708	4,402
do. alloys .. .. .	109	106	598	1,155	938	381
Scrap (a) .. .. .	126	97	709	595	306	177
Semi-manufactures (a) .. .. .	3,121	4,825	4,354	6,789	8,017	5,153
Sulphate .. .. .	233	1,262	1,338	373	517	758
Belgium-Luxemburg E.U.—						
Unwrought (a) (b) .. .. .	169,387	195,223	206,804	244,379	245,872	259,003
Scrap .. .. .	2,836	5,819	8,745	9,739	12,499	16,004
Semi-manufactures (a) .. .. .	59,254	60,810	56,322	59,419	81,077	88,745
Sulphate .. .. .	20,663	15,941	12,585	11,624	5,517	8,310
Denmark—						
Unwrought .. .. .	272	5	27	—	477	99
do. alloys .. .. .	224	142	227	416	215	368
Scrap (a) .. .. .	2,766	2,969	5,342	5,116	3,304	4,458
Semi-manufactures (a) .. .. .	357	699	712	784	1,561	1,740
Finland—						
Unwrought (a) .. .. .	4,767	5,501	7,196	8,776	6,740	4,973
Semi-manufactures (a) .. .. .	2,030	2,991	3,158	5,640	1,927	9,900
France—						
Ore .. .. .	984	675	—	—	—	—
Matte .. .. .	4,373	2,658	421	880	795	1,637
Unwrought—						
Unrefined .. .. .	8,753	5,956	9,472	9,791	11,663	13,165
Refined .. .. .	1,822	1,554	2,436	2,619	3,330	10,439
Alloys .. .. .	12,915	6,719	5,773	4,674	4,655	5,143
Scrap .. .. .	3,345	3,203	5,040	5,583	8,011	7,677
do. alloys .. .. .	10,737	15,188	17,294	27,475	34,963	33,012
Semi-manufactures (a) .. .. .	24,051	22,309	17,424	18,399	20,467	33,748
Sulphate .. .. .	9,670	8,237	7,320	4,155	3,234	3,506
Germany (Federal)—						
Ore .. .. .	—	418	472	—	—	3,941
Unwrought—						
Unrefined .. .. .	548	45	89	251	367	858
Refined .. .. .	79,528	78,997	114,215	71,903	75,501	101,251
Alloys .. .. .	510	1,046	1,843	1,012	1,147	1,678
Scrap (a) .. .. .	6,519	11,230	14,504	20,338	18,312	31,422
Semi-manufactures (a) .. .. .	68,741	57,414	63,532	71,641	76,820	69,749
Sulphate .. .. .	4,780	5,491	4,319	5,058	3,871	3,611
Italy—						
Ore .. .. .	2,015	2,246	3,327	2,158	2,462	999
Unwrought (a) .. .. .	33	169	36	21	10,693	16,864
Scrap (a) .. .. .	60	121	190	245	2,847	465

(a) Including alloys.

(b) Including matte.

(c) Year ended June 30 of that stated.

## EXPORTS OF COPPER, ETC. (cont.)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Italy <i>(cont.)</i>						
Semi-manufactures (a)	11,310	13,234	9,963	9,695	27,168	35,614
Sulphate .. .. .	6,316	4,369	7,250	4,681	1,491	17
Netherlands—						
Ore .. .. .	4,133	6,804	263	—	—	—
Unwrought .. .. .	849	264	122	601	1,402	826
do. alloys .. .. .	6,468	6,009	5,434	4,852	6,050	4,819
Scrap (a) .. .. .	13,190	14,374	17,338	19,684	24,087	31,912
Semi-manufactures (a)	6,523	6,555	7,992	9,314	13,484	15,917
Sulphate .. .. .	27	50	36	26	61	147
Norway—						
Ore .. .. .	9,618	10,438	11,205	9,889	14,091	10,559
Matte .. .. .	16,811	19,568	15,510	1,107	—	—
Unwrought—						
Unrefined .. .. .	4,114	3,987	4,161	4,488	4,821	4,831
Refined .. .. .	13,915	14,769	13,512	10,667	9,361	11,914
Alloys .. .. .	2,327	1,846	1,197	1,740	1,714	2,939
Scrap (a) .. .. .	1,492	1,507	1,572	2,022	2,269	1,998
Semi-manufactures (a)	3,533	2,436	2,198	2,625	1,968	2,940
Portugal—						
Ore .. .. .	1,967	2,241	2,102	2,153	180	18
Unwrought .. .. .	351	556	471	256	1,091	742
Semi-manufactures (a)	90	69	62	68	71	341
Sulphate .. .. .	194	59	201	183	211	755
Spain—						
Unwrought (a) .. .. .	2,801	209	70	388	6,384	13,975
Semi-manufactures (a)	593	63	26	185	13	12
Sweden—						
Unwrought .. .. .	14,947	15,953	15,884	15,128	10,387	17,930
do. alloys .. .. .	1,511	1,745	1,890	2,568	1,454	1,849
Scrap (a) .. .. .	703	719	545	656	977	1,406
Semi-manufactures (a)	32,344	30,226	28,691	31,523	45,507	36,030
Sulphate .. .. .	3	2	8	3	69	409
Switzerland—						
Unwrought (a) .. .. .	2,599	1,706	2,052	2,050	2,808	3,784
Scrap (a) .. .. .	403	527	1,802	6,901	9,897	12,047
Semi-manufactures (a)	9,435	8,543	7,705	8,482	10,198	8,110
U.S.S.R.—						
Unwrought (c) .. .. .	63,400	59,400	70,200	70,900	88,100	91,600
Semi-manufactures .. .. .	7,382	3,445	5,413	5,413	4,921	5,400
Sulphate .. .. .	9,300	9,700	9,300	10,300	11,800	10,400
Yugoslavia—						
Matte .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,229	1,033	<i>n.a.</i>
Unwrought (a) .. .. .	—	100	843	—	—	—
Semi-manufactures (a)	12,635	13,163	13,895	17,523	21,845	22,134
Sulphate .. .. .	6,707	984	2,953	2,180	9,241	1,571
Algeria—						
Ore .. .. .	410	1,544	3,516	3,291	4,018	3,615
Scrap (a) .. .. .	2,794	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Semi-manufactures (a)	1,797	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Angola—						
Ore .. .. .	—	—	90	—	—	—
Unwrought .. .. .	1,949	871	764	190	9	50
Congo Republic—						
Unwrought (b)	280,000	300,000	280,000	260,000	300,000	280,000
Morocco—						
Ore .. .. .	4,738	4,357	5,372	6,516	4,507	5,689
Scrap (a) .. .. .	1,407	1,266	864	743	928	760

(a) Including alloys.

(c) Including wire.

(b) Estimated.

## EXPORTS OF COPPER, ETC. (cont.)

Long ton

Exporting Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES						
(cont.)						
South Africa—						
Concentrates ( <i>Cu content</i> )	—	(c) 238	(c) 42	(c) 583	(c) 3,287	(c) 4,259
Unwrought .. ..	44,573	51,586	43,447	68,495	81,128	49,877
do. alloys .. ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	88	<i>n.a.</i>
Semi-manufactures ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,012	<i>n.a.</i>
South West Africa—						
Ore ( <i>Cu content</i> ) .. ..	2,153	4,537	1,440	—	312	668
Lead concentrates ( <i>Cu content</i> ) .. ..	19,179	23,587	21,938	11,492	5,834	7,895
Tunisia—						
Unwrought and scrap ..	955	717	850	520	459	1,259
Mexico—						
Ore, concentrates, etc. ..	20,655	3,497	6,912	2,085	7,178	<i>n.a.</i>
Unwrought—						
Unrefined .. ..	28,115	20,746	24,049	22,061	15,686	7,821
Refined .. ..	6,161	3,329	4,930	2,735	620	<i>n.a.</i>
Semi-manufactures (a)	264	543	1,213	1,985	1,606	<i>n.a.</i>
United States—						
Ores, matte, blister, etc. ( <i>Cu content</i> ) .. ..	9,920	3,998	1,710	1,080	4,817	9,532
Unwrought .. ..	387,288	385,940	300,468	278,107	282,349	290,147
do. alloys .. ..	624	419	306	529	1,774	1,356
Scrap .. ..	52,554	31,479	11,257	12,223	39,062	28,357
do. alloys .. ..	109,085	104,155	32,330	30,997	61,313	58,326
Semi-manufactures .. ..	8,647	9,519	9,692	9,337	5,626	9,921
do. alloys .. ..	4,101	4,641	6,265	5,771	5,917	10,918
Sulphate .. ..	13,251	6,764	1,711	759	971	<i>n.a.</i>
Argentina—						
Ores .. ..	1,383	1,590	1,681	2,121	1,292	184
Matte .. ..	241	209	206	17	349	—
Bolivia—						
Ore, etc. ( <i>Cu content</i> ) .. ..	2,060	1,931	2,325	2,946	4,607	4,656
Unwrought .. ..	175	117	—	—	—	—
Chile—						
Ores and concentrates	37,011	32,468	33,231	r 33,976	23,419	} 27,640
Precipitate .. ..	3,915	3,688	7,347	r 8,365	11,431	
Copper cement .. ..	3,759	4,180	3,070	9,329	<i>n.a.</i>	
Unwrought—						
Blister .. ..	268,726	299,069	289,775	r 278,132	304,787	213,596
Refined .. ..	74,461	73,699	73,006	r 78,157	70,886	46,293
Electrolytic .. ..	138,770	143,417	166,381	r 166,138	139,124	147,087
<i>Cu content</i> (b) .. ..	514,130	534,825	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Semi-manufactures .. ..	4,839	3,314	3,776	r 2,107	<i>n.a.</i>	<i>n.a.</i>
Peru—						
Ore ( <i>Cu content</i> ) .. ..	18,578	15,313	14,579	15,648	22,022	23,488
Matte, etc. ( <i>do.</i> ) .. ..	1,092	1,289	2,889	2,156	551	—
Precipitate ( <i>do.</i> ) .. ..	812	808	1,476	1,057	914	726
Unwrought ( <i>do.</i> ) .. ..	144,855	178,215	152,495	144,205	152,979	152,793
Burma—						
Matte .. ..	364	504	398	235	450	398
Formosa—						
Ore .. ..	6,496	8,661	12,598	9,252	14,256	12,638
Unwrought .. ..	<i>n.a.</i>	4,360	—	—	3	252
Japan—						
Unwrought .. ..	1,585	1,336	2,050	1,458	1,541	2,627
Semi-manufactures (a)	11,271	12,249	15,897	18,018	26,232	49,643
Sulphate .. ..	8	160	211	23	33	9

(a) Including alloys.

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

(c) Including matte.

## EXPORTS OF COPPER, ETC. (cont.)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES (cont.)						
Korea (South)—						
Unwrought .. ..	284	721	39	—	2,057	2,879
Philippine Republic—						
Ore and concentrates ..	171,694	243,420	180,647	278,714	243,524	254,595
Copper-gold-silver concentrates .. ..	19,010	22,797	35,173	1,462	6,245	n.a.
Scrap .. .. .	497	2,858	1,706	878	1,189	n.a.
Turkey—						
Ore .. .. .	747	—	35	—	8,297	7,972
Unwrought .. ..	17,765	8,051	14,200	9,885	12,779	20,035

## IMPORTS OF COPPER, ETC.\*

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—						
Unwrought—						
Electrolytic .. ..	375,683	345,580	380,543	345,098	376,638	438,949
Other refined .. ..	53,504	34,790	30,109	36,616	42,639	63,127
Blister .. ..	111,961	140,445	103,984	99,163	98,901	75,010
Alloys .. ..	296	159	78	608	308	121
Scrap .. ..	2,043	371	514	496	768	2,887
do. alloys .. ..	4,261	1,591	1,811	1,643	2,619	2,768
Semi-manufactures (a)	6,323	4,340	3,917	4,435	10,090	7,231
Malta—						
Semi-manufactures .. .	£12,642	£22,299	£18,575	£25,387	£40,665	£46,934
Ghana—						
Semi-manufactures (a)	738	653	715	760	471	993
Kenya—						
Unwrought (a) .. ..	1	—	32	62	31	74
Semi-manufactures (a)	158	205	164	202	147	275
Sulphate .. ..	68	49	25	38	63	53
Mauritius—						
Semi-manufactures (a)	204	106	46	88	107	81
Nigeria—						
Unwrought and semi-manufactures (a) ..	627	858	1,776	2,215	1,864	1,562
Rhodesia (c)—						
Semi-manufactures (a)	996	829	1,011	690	6,282	4,174
Sierra Leone—						
Semi-manufactures (a)	55	97	142	49	70	56
Tanzania						
Unwrought (a) .. ..	5	3	—	2	1	4
Semi-manufactures (a)	116	82	78	140	64	57
Sulphate .. ..	6	—	1	4	1	1
Uganda—						
Semi-manufactures (a)	75	84	67	65	80	122
Zambia—						
Unwrought (a) .. ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	39	131
Semi-manufactures (a)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	349	710
Sulphate .. ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	35	12
Canada—						
Unwrought .. ..	22	3	124	5,846	(d) 6,045	(d) 5,131
Scrap (a) .. ..	2,781	3,654	489	2,995	<i>n.a.</i>	<i>n.a.</i>
Semi-manufactures ..	2,972	3,771	1,234	1,511	(d) 1,551	(d) 4,075
do. alloys .. ..	1,582	1,897	2,745	3,459	(d) 3,294	(d) 8,670
Sulphate .. ..	998	345	390	327	194	435
Barbados—						
Semi-manufactures (a)	81	112	75	77	207	75
Jamaica—						
Semi-manufactures (a)	255	246	135	116	160	151
Sulphate .. ..	1,647	762	2	(b) 50	2	1
Trinidad and Tobago—						
Semi-manufactures (a)	251	511	184	157	189	<i>n.a.</i>
Sulphate .. ..	25	28	16	37	15	<i>n.a.</i>
British Guiana—						
Semi-manufactures (a)	78	41	r 19	<i>n.a.</i>	36	69
Ceylon—						
Unwrought (a) .. ..	28	16	26	32	29	43
Semi-manufactures (a)	551	583	395	471	753	596
Cyprus—						
Semi-manufactures (a)	142	121	87	68	57	25

\*See footnote on p.109 concerning the descriptions "unwrought" copper and "semi-manufactures" used in these tables.

(a) Including alloys.

(c) Figures for years 1960 to 1963 relate to Rhodesia and Nyasaland.

(b) Excess of re-exports.

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



## IMPORTS OF COPPER, ETC. (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b> (cont.)						
Hong Kong—						
Unwrought (a) .. ..	r 71	r 258	r 95	r 204	508	3
Scrap (a) .. ..	r 1,142	r 1,564	r 1,546	r 734	354	12
Semi-manufactures (a)	r 538	r 7,911	r 7,337	r 8,355	11,881	8,831
India (e)—						
Unwrought .. ..	55,892	36,203	68,489	68,312	51,824	42,471
do. alloys .. ..	66	64	152	10	58	196
Scrap (a) .. ..	6,623	4,338	1,478	1,457	1,954	1,042
Semi-manufactures (a)	5,747	6,069	5,407	4,958	5,580	14,748
Sulphate .. ..	3	1	—	—	—	—
Malaya—						
Unwrought (a) .. ..	64	63	51	73	108	70
Semi-manufactures (a)	1,920	2,288	2,736	2,574	2,731	3,636
Sulphate .. ..	164	240	162	221	150	188
Pakistan—						
Unwrought .. ..	157	2,112	2,472	2,473	322	n.a.
Scrap .. ..	19	262	146	124	124	n.a.
Semi-manufactures .. ..	1,792	3,309	n.a.	5,144	702	n.a.
Sulphate .. ..	42	87	183	285	n.a.	n.a.
Sabah—						
Semi-manufactures (a)	77	96	66	105	95	84
Sarawak—						
Semi-manufactures (a)	57	205	94	86	153	160
Australia (c)—						
Unwrought .. ..	1,965	6,746	(b) 5,386	1,238	5,038	32,654
do. alloys .. ..	48	26	4	289	1,090	—
Scrap (a) .. ..	73	351	118	205	535	526
Semi-manufactures (a)	3,301	3,039	5,560	2,638	1,818	4,136
Sulphate .. ..	338	623	1,131	2,077	1,223	2,586
Fiji—						
Semi-manufactures (a)	35	89	110	64	61	68
New Zealand—						
Unwrought (a) .. ..	62	95	148	(c) 133	(c) 184	(c) 118
Semi-manufactures (a)	10,448	11,237	11,126	(c) 12,130	(c) 12,934	(c) 13,153
Sulphate .. ..	221	42	n.a.	n.a.	n.a.	n.a.
Irish Republic—						
Unwrought (a) .. ..	111	230	196	126	98	129
Semi-manufactures (a)	3,913	4,316	4,339	r 5,348	5,002	7,172
Sulphate .. ..	2,301	2,569	1,578	1,913	1,481	850
<b>OTHER COUNTRIES</b>						
Austria—						
Ore .. ..	436	542	498	298	271	681
Unwrought—						
Unrefined .. ..	2,938	5,240	4,817	5,011	5,945	5,299
Refined .. ..	19,817	20,258	17,073	15,844	18,053	17,188
Alloys .. ..	515	104	129	334	425	625
Scrap .. ..	813	1,532	691	3,248	1,736	979
do. alloys .. ..	1,152	1,118	1,907	1,227	2,784	4,250
Semi-manufactures (a)	2,995	4,011	3,813	3,469	4,113	3,607
Belgium-Luxemburg						
E.U.—						
Ore .. ..	9,133	5,750	5,875	3,960	2,141	2,192
Unwrought (a) (d) .. ..	270,204	272,778	301,776	275,956	316,844	312,370
Scrap .. ..	18,909	19,540	31,559	35,926	48,172	66,606
Semi-manufactures (a)	4,244	5,886	6,636	6,936	8,300	8,881
Sulphate .. ..	74	78	121	126	344	206

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

(b) Excess of re-exports.

(c) Years ended June 30 of that stated.

(e) Years ended March 31 following that stated.

## IMPORTS OF COPPER, ETC. (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965	
<b>OTHER COUNTRIES</b>							
<i>(cont.)</i>							
<b>Denmark—</b>							
Unwrought .. ..	4,928	3,546	4,566	3,786	4,372	3,526	
do. alloys .. ..	323	183	228	113	103	181	
Scrap (a) .. ..	72	279	105	17	80	283	
Semi-manufactures (a)	19,189	22,011	24,832	21,356	23,711	29,530	
Sulphate .. ..	2,248	3,026	2,286	2,599	3,767	2,969	
<b>Finland—</b>							
Unwrought (a) ..	5,472	6,257	6,229	2,696	5,643	12,059	
Semi-manufactures (a)	2,287	3,498	2,022	2,079	1,995	3,673	
Sulphate .. ..	85	403	708	710	794	1,328	
<b>France—</b>							
<b>Unwrought—</b>							
Unrefined .. ..	5,672	10,413	4,839	6,109	9,648	4,643	
Refined .. ..	203,327	219,233	223,100	208,907	244,863	257,864	
Alloys .. ..	1,656	907	2,096	1,925	963	1,849	
Scrap .. ..	1,517	2,876	2,678	1,789	2,075	2,898	
do. alloys .. ..	2,777	3,649	6,215	6,750	4,988	8,786	
Semi-manufactures (a)	3,548	4,729	6,086	10,564	14,854	15,504	
Sulphate .. ..	1,453	4,466	3,247	1,906	1,320	60	
<b>Germany (Federal)—</b>							
Ore .. ..	137,301	127,968	131,513	156,041	146,971	142,583	
Burnt cupreous pyrites	1,345,843	1,209,333	1,095,231	979,785	1,112,599	1,253,434	
Matte .. ..	8,374	7,979	7,335	2,320	2,259	1,430	
<b>Unwrought—</b>							
Unrefined .. ..	118,396	120,142	99,424	120,171	133,717	139,832	
Refined .. ..	305,103	341,324	296,063	251,181	304,991	294,510	
Alloys .. ..	36,711	30,555	36,090	38,831	42,089	43,099	
Scrap (a) .. ..	61,385	33,594	26,605	36,278	78,178	107,380	
Semi-manufactures (a)	21,906	27,204	19,788	26,078	42,227	71,525	
Sulphate .. ..	425	592	542	541	929	1,597	
<b>Greece—</b>							
<b>Unwrought—</b>							
Unrefined .. ..	3,173	2,082	4,891	1,080	1,584	2,124	
Refined .. ..		1,872	2,344	5,542	4,376	4,144	
Scrap .. ..		1,352	777	868	406	31	4
Sulphate .. ..		7,601	5,865	6,127	3,994	4,608	232
<b>Hungary—</b>							
Unwrought .. ..	18,089	18,616	18,534	17,279	22,363	n.a.	
Sulphate .. ..	4,682	6,216	7,224	3,809	4,368	4,427	
<b>Iceland—</b>							
Semi-manufactures (a)	239	253	283	210	187	225	
<b>Italy—</b>							
<b>Unwrought—</b>							
Unrefined .. ..	15,736	12,066	12,464	9,837	764	2,027	
Refined (a) .. ..	174,462	183,021	223,834	210,798	191,690	199,378	
Scrap (a) .. ..	16,480	22,987	23,070	21,524	13,682	35,034	
Semi-manufactures (a)	5,659	5,668	3,668	12,207	8,947	8,238	
Sulphate .. ..	2,165	2,073	1,390	1,246	5,855	5,160	
<b>Netherlands—</b>							
Ore .. ..	4,580	8,287	—	—	—	—	
Unwrought .. ..	31,561	29,547	21,349	25,798	34,034	31,746	
do. alloys .. ..	1,615	1,278	1,725	1,508	1,979	2,788	
Scrap (a) .. ..	4,608	4,858	4,846	8,231	8,566	10,275	
Semi-manufactures (a)	41,607	45,772	40,170	40,207	57,690	67,505	
Sulphate .. ..	2,119	2,073	2,172	2,413	2,628	2,984	
<b>Norway—</b>							
Copper-nickel matte ..	60,695	63,328	59,896	55,559	50,009	59,760	
Unwrought .. ..	4,430	4,247	5,110	4,587	4,970	4,576	
do. alloys .. ..	778	250	429	415	228	284	
Scrap (a) .. ..	330	318	95	—	66	157	
Semi-manufactures (a)	15,717	17,727	18,538	18,288	19,975	21,367	
Sulphate .. ..	424	343	398	269	566	1,561	

(a) Including alloys.

## IMPORTS OF COPPER, ETC. (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES (cont.)						
Poland—						
Concentrates .. ..	5,269	10,683	9,060	12,137	18,798	n.a.
Unwrought .. ..	20,533	32,331	35,923	34,592	27,485	28,500
Sulphate .. ..	2,716	1,921	5,305	1,754	1,566	n.a.
Portugal—						
Ore and concentrates ..	3,250	4,132	9,060	10	—	—
Matte .. ..	175	59	118	22	—	—
Unwrought (a) .. ..	7,786	9,929	6,476	5,294	5,294	6,607
Scrap .. ..	319	78	230	235	353	134
Semi-manufactures (a)	3,328	4,327	3,446	4,578	5,137	5,473
Sulphate .. ..	6,906	8,842	5,305	4,210	4,542	2,472
Spain—						
Ore .. ..	21,459	49,614	22,547	17,602	19,569	22,503
Unwrought (a) .. ..	8,404	12,436	26,538	28,475	41,372	33,637
Scrap (a) .. ..	4,349	10,219	15,470	10,217	10,040	17,230
Semi-manufactures (a)	420	465	3,831	9,679	9,919	17,725
Sulphate .. ..	104	90	30	51	70	42
Sweden—						
Ore .. ..	25,763	18,401	21,293	77,555	65,908	75,694
Matte .. ..	7,641	8,163	9,255	7,231	10,653	8,298
Unwrought—						
Unrefined .. ..	3,156	5,267	1,876	1,973	1,465	307
Refined .. ..	71,123	65,964	69,143	63,131	56,278	62,344
Alloys .. ..	4,052	4,459	3,005	2,312	3,614	5,827
Scrap (a) .. ..	4,548	1,479	1,498	3,297	4,617	10,230
Semi-manufactures (a)	10,151	9,953	9,346	12,357	17,764	34,736
Sulphate .. ..	696	441	211	214	96	95
Switzerland—						
Unwrought .. ..	36,888	51,943	39,635	37,291	37,220	40,585
do. alloys .. ..	524	1,364	2,117	1,010	637	1,043
Scrap (a) .. ..	1,371	493	425	222	296	421
Semi-manufactures (a)	12,614	21,060	21,123	16,394	20,444	24,126
U.S.S.R.—						
Unwrought .. ..	104,300	80,900	104,700	86,600	9,400	700
Sulphate .. ..	n.a.	n.a.	5,905	8,661	8,858	—
Yugoslavia—						
Unwrought .. ..	9,562	10,284	6,999	5,911	9,347	6,179
Semi-manufactures (a)	479	620	549	591	2,551	2,151
Scrap .. ..	3,012	3,929	4,141	4,434	3,091	10,962
Algeria—						
Unwrought .. ..	4,572	n.a.	n.a.	n.a.	n.a.	n.a.
Semi-manufactures (a)	1,552	n.a.	n.a.	n.a.	n.a.	n.a.
Sulphate .. ..	2,744	n.a.	n.a.	n.a.	n.a.	n.a.
Angola—						
Semi-manufactures (a)	101	265	393	298	396	514
Sulphate .. ..	17	7	3	26	163	25
Egypt—						
Unwrought and scrap ..	2,695	5,056	6,481	10,131	5,222	3,348
Semi-manufactures (a)	1,050	982	619	n.a.	379	n.a.
Sulphate .. ..	1,327	95	—	n.a.	n.a.	n.a.
Malagasy Republic—						
Semi-manufactures (a)	128	148	170	114	179	n.a.
Morocco—						
Semi-manufactures (a)	2,201	1,863	2,122	3,006	2,571	2,074
Sulphate .. ..	29	35	—	10	1	—
Mozambique—						
Semi-manufactures (a)	437	481	431	681	408	508
South Africa—						
Ore and concentrates ..	n.a.	n.a.	n.a.	n.a.	4,947	n.a.
Unwrought .. ..	22,423	22,948	24,571	25,614	30,809	n.a.
do. alloys .. ..	106	70	39	66		
Semi-manufactures (a)	1,359	1,210	2,121	1,344	4,308	n.a.

(a) Including alloys.

## IMPORTS OF COPPER, ETC. (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Sudan—						
Unwrought .. ..	—	1	—	125	3	222
Semi-manufactures .. ..	152	223	589	271	242	—
Sulphate .. ..	600	447	255	1	2	396
Tunisia—						
Semi-manufactures (a)	359	507	337	399	640	514
Sulphate .. ..	684	620	91	346	131	147
Costa Rica—						
Semi-manufactures (a)	103	131	212	241	163	312
Sulphate .. ..	6,430	9,811	157	11	26	30
Guatemala—						
Semi-manufactures (a)	137	81	106	85	183	200
Sulphate .. ..	1,137	408	19	12	16	31
Honduras—						
Sulphate .. ..	3,755	296	45	34	33	55
Mexico—						
Unwrought (a) .. ..	81	15	28	21	19	n.a.
Semi-manufactures (a)	232	276	214	735	451	n.a.
Sulphate .. ..	1	2	5	—	1	n.a.
Nicaragua—						
Semi-manufactures .. ..	60	77	80	71	154	126
Panama Republic—						
Sulphate .. ..	2,443	2,504	n.a.	n.a.	n.a.	n.a.
Salvador—						
Semi-manufactures .. ..	n.a.	n.a.	n.a.	8	586	975
United States (b)—						
<i>Cu content of—</i>						
Ore and concentrates	21,819	21,875	2,074	10,266	38,616	10,130
Matte, precipitate, etc.	165	85	19	2,500	96	378
Unwrought—						
Blister .. ..	434	5,294	999	106,456	360,605	290,549
Refined .. ..	152,698	77,863	116,540	109,954	100,620	104,793
Scrap .. ..	1,639	1,467	3,434	1,960	4,638	12,222
do. alloys .. ..	276	348	1,151	844	883	2,738
Semi-manufactures .. ..	41,490	19,160	17,251	n.a.	n.a.	57,398
do. alloys .. ..	24,549	21,061	23,389	n.a.	n.a.	
Sulphate .. ..	983	285	74	n.a.	n.a.	485
Argentina—						
Unwrought .. ..	21,338	29,316	17,177	15,647	20,861	22,873
Brazil—						
Ore .. ..	168	—	—	—	—	—
Unwrought (a) .. ..	28,774	35,598	41,447	47,448	27,371	n.a.
Semi-manufactures (a)	608	307	374	231	337	315
Sulphate .. ..	4,328	3,142	4,653	4,081	3,335	2,713
Colombia—						
Unwrought .. ..	n.a.	63	162	365	633	953
Semi-manufactures (a)	3,022	4,378	4,148	4,403	5,833	3,428
Sulphate .. ..	683	104	3	50	7	1
Peru—						
Semi-manufactures (a)	665	894	1,136	773	609	3,837
Sulphate .. ..	265	312	188	225	554	165
Uruguay—						
Semi-manufactures (a)	501	n.a.	n.a.	n.a.	n.a.	n.a.

(a) Including alloys.

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

	1960	1961	1962	1963	1964	1965
Ore and concentrates	67,427	40,882	38,319	43,427	45,924	32,522
Matte .. ..	4,508	1,434	566	666	537	458
Unwrought—						
Blister .. ..	266,404	302,847	296,148	329,519	347,838	296,929
Refined .. ..	127,419	59,692	88,232	106,397	123,213	122,683
Scrap .. ..	2,406	3,778	4,279	2,610	3,994	13,699

## IMPORTS OF COPPER, ETC. (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Venezuela—						
Semi-manufactures (a)	7,136	5,892	5,094	5,857	6,376	6,634
Sulphate .. .. .	102	106	303	223	55	2,068
Burma—						
Semi-manufactures (a)	423	306	—	374	134	264
Formosa—						
Unwrought (a) ..	1,727	1,243	2,405	2,250	1,996	1,450
Semi-manufactures (a)	1,685	1,829	1,102	917	2,766	4,031
Indonesia—						
Semi-manufactures (a)	1,721	2,996	2,087	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sulphate .. .. .	312	1,332	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Iran (b)—						
Unwrought (a) ..	276	357	402	1,201	499	1,010
Scrap .. .. .	870	873	1,106	1,233	784	108
Semi-manufactures (a)	2,515	2,805	3,709	2,451	3,179	3,403
Iraq—						
Semi-manufactures (a)	1,083	881	1,745	1,086	1,156	<i>n.a.</i>
Japan—						
Ore and concentrates ..	62,305	427,423	514,230	556,140	586,470	575,070
Matte .. .. .	1,571	5,392	35,435	34,542	24,113	33,781
Unwrought .. .. .	58,420	102,634	36,158	55,321	117,853	110,573
do. alloys .. .. .	167	65	206	165	2,631	2,648
Scrap .. .. .	7,755	10,336	7,812	17,079	28,829	12,531
do. alloys .. .. .	108,400	134,198	74,953	64,463	77,373	51,392
Semi-manufactures (a)	2,471	983	1,428	1,255	5,884	11,345
Sulphate .. .. .	—	304	1,142	—	—	—
Jordan—						
Semi-manufactures (a)	87	114	158	188	216	<i>n.a.</i>
Korea (South)—						
Unwrought and						
Semi-manufactures ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	97,099	233	112
Lebanon—						
Semi-manufactures (a)	425	750	524	501	668	<i>n.a.</i>
Philippine Republic—						
Semi-manufactures (a)	3,771	3,976	4,622	3,427	4,580	<i>n.a.</i>
Sulphate .. .. .	139	<i>n.a.</i>	<i>n.a.</i>	109	—	<i>n.a.</i>
Thailand—						
Unwrought (a) ..	210	7	215	155	336	355
Semi-manufactures (a)	1,193	1,198	1,802	2,134	2,914	3,408
Turkey—						
Semi-manufactures (a)	483	423	104	418	363	196
Sulphate .. .. .	330	857	1,540	34	3,152	4,687

(a) Including alloys.

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

**DIAMONDS**  
PRODUCTION OF DIAMONDS†

Metric carats

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Basutoland .. .. .	95	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	(a) 2,472	<i>n.a.</i>
Ghana (b) .. .. .	3,273,000	3,214,000	3,210,060	r 2,681,700	2,668,000	2,273,000
Sierra Leone .. .. .	1,909,180	2,295,279	1,637,402	a) 1,738,547	a) 1,649,847	1,461,145
Tanzania .. .. .	548,376	691,668	660,029	590,949	650,461	(a) 828,356
British Guiana .. .. .	101,004	112,679	100,145	99,748	109,682	112,873
India .. .. .	1,159	1,313	1,131	1,432	2,260	4,466
Australia .. .. .	6	—	—	—	—	—
<b>TOTAL .. .. .</b>	<b>5,833,000</b>	<b>6,315,000</b>	<b>5,609,000</b>	<b>r 5,112,000</b>	<b>5,083,000</b>	<b>4,680,000</b>
<b>OTHER COUNTRIES</b>						
Angola—						
Gem .. .. .	642,551	750,769	762,395	788,406	874,096	886,788
Industrial .. .. .	414,276	396,669	318,709	295,165	274,972	268,937
Congo Republic—						
Gem .. .. .	407,000	132,000	r 256,000	296,000	295,000	14,000
Industrial .. .. .	13,046,563	18,011,000	r 14,400,000	14,468,000	14,457,000	12,490,000
Central African Republic	69,641	111,484	265,417	402,186	442,281	536,810
Ivory Coast .. .. .	199,120	549,330	283,911	179,660	200,270	198,179
Guinea .. .. .	a 1,116,000	(c) 1,200,000	(c) 350,000	54,000	(c) 50,000	<i>n.a.</i>
South Africa .. .. .	3,141,463	3,787,862	3,917,891	4,375,572	4,449,978	5,025,598
South West Africa .. .. .	935,382	905,815	1,027,233	1,194,630	1,541,544	1,784,532
Venezuela .. .. .	70,867	134,176	176,493	69,674	115,604	88,800
<b>TOTAL* .. .. .</b>	<b>20,300,000</b>	<b>26,000,000</b>	<b>22,000,000</b>	<b>22,000,000</b>	<b>23,000,000</b>	<b>22,000,000</b>
<b>WORLD'S TOTAL*</b>	<b>26,100,000</b>	<b>32,000,000</b>	<b>28,000,000</b>	<b>28,000,000</b>	<b>28,000,000</b>	<b>26,000,000</b>

†For values see next page.

\*Including an estimate for diamonds produced in Brazil but excluding diamonds produced in the U.S.S.R., Liberia and Indonesia. Production in the U.S.S.R. is reported to have been as follows (metric carats): 1960—950,000; 1961—1,000,000; 1962—2,500,000; 1963—2,750,000; 1964—*n.a.* 1965—*n.a.*

Note—Estimated production of synthetic diamond in the United States was as follows (metric carats): 1960—2,000,000; 1961—2,500,000; 1962—3,000,000; 1963—5,000,000; 1964—5,200,000; 1965—5,400,000

(a) Exports.

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

	Companies	African diggers
1960 ..	1,853,000	1,419,843
1961 ..	1,966,000	1,247,667
1962 ..	2,266,185	943,875
1963 ..	2,119,400	r 562,300
1964 ..	2,290,000	378,000
1965 ..	2,222,000	51,000

(c) Estimated.

PRODUCTION OF DIAMONDS†

£ sterling

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Basutoland (c) .. ..	1,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	(a) 56,266	<i>n.a.</i>
Ghana (b) .. ..	9,782,000	8,050,000	7,162,000	r 5,895,000	6,355,000	4,981,000
Sierra Leone .. ..	b15,306,000	b17,922,000	11,634,018	a16,163,671	a19,911,496	b17,701,000
Tanzania (b) .. ..	4,773,000	5,836,000	5,508,000	5,040,000	7,036,000	(a)7,113,998
British Guiana .. ..	1,083,899	967,170	(b) 800,000	(c) 800,000	(b) 966,000	b 1,290,000
India .. ..	39,700	64,000	28,100	38,900	91,350	185,300
Australia .. ..	20	—	—	—	—	—
<b>TOTAL .. ..</b>	<b>30,986,000</b>	<b>32,840,000</b>	<b>25,000,000</b>	<b>28,000,000</b>	<b>34,416,000</b>	<b>31,000,000</b>
<b>OTHER COUNTRIES</b>						
Angola .. ..	6,624,000	(b)7,420,000	(b)7,602,000	(b)8,020,000	(b)9,786,000	b11,260,000
Congo Republic—						
Gem (b) .. ..	806,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Industrial (b) .. ..	9,282,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Central African Republic	(b) 509,000	612,000	(b)1,574,000	3,600,000	(b)4,700,000	(b)5,379,000
Ivory Coast (b) .. ..	500,000	1,207,000	551,000	477,000	564,000	660,000
Guinea (b) .. ..	(a)3,600,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
South Africa (c) .. ..	16,903,000	18,968,000	17,942,000	18,636,000	22,149,000	25,686,000
South West Africa (c) ..	15,573,000	17,435,000	18,635,000	18,417,000	30,411,000	39,438,000
Venezuela (b) .. ..	558,000	1,200,000	1,965,000	953,000	1,581,000	1,214,000
<b>TOTAL* .. ..</b>	<b>57,000,000</b>	<b>66,000,000</b>	<b>62,000,000</b>	<b>63,000,000</b>	<b>83,000,000</b>	<b>96,000,000</b>
<b>WORLD'S TOTAL* ..</b>	<b>88,000,000</b>	<b>99,000,000</b>	<b>87,000,000</b>	<b>91,000,000</b>	<b>117,000,000</b>	<b>127,000,000</b>

†For quantities in metric carats see previous page.

\*Including an estimate for diamonds produced in Brazil.

(a) Exports.

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

(c) Estimated.

SALES OF DIAMONDS

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

				(£ sterling)	
			<i>Gem</i>	<i>Industrial</i>	<i>Total</i>
1960 .. ..	..	..	63,450,929	26,249,454	89,700,383
1961 .. ..	..	..	79,349,763	16,308,370	95,658,133
1962 .. ..	..	..	<i>n.a.</i>	<i>n.a.</i>	96,271,340
1963 .. ..	..	..	<i>n.a.</i>	<i>n.a.</i>	115,978,441
1964 .. ..	..	..	<i>n.a.</i>	<i>n.a.</i>	133,186,049
1965 .. ..	..	..	<i>n.a.</i>	<i>n.a.</i>	148,316,941
1966 .. ..	..	..	<i>n.a.</i>	<i>n.a.</i>	177,845,823

EXPORTS OF DIAMONDS

Exporting Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—Diamonds	£ <i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	151,239,797	158,384,000
Ghana—Industrial diamonds	Ct. 3,291,976	2,854,134	3,327,506	1,513,740	2,569,376	3,084,365
	£ 9,838,547	7,148,511	7,424,285	3,327,307	6,120,369	6,758,903
Sierra Leone ..	Ct. 2,054,735	2,045,150	1,157,520	1,738,547	1,649,847	1,525,437
	£ 16,473,273	15,969,057	7,108,862	16,163,671	19,911,496	18,479,519
Tanzania ..	Ct. 258,370	339,982	323,978	275,958	337,711	} 828,356 7,113,998
Gem diamonds ..	£ 3,644,877	4,803,374	4,510,045	4,173,247	5,795,763	
Industrial diamonds	Ct. 278,203	344,873	323,200	312,753	326,059	
	£ 977,065	976,704	891,912	848,698	985,391	
British Guiana ..	Ct. 94,782	124,622	r 93,845	<i>n.a.</i>	106,607	105,355
	£ 990,772	1,069,634	772,233	<i>n.a.</i>	938,842	1,203,704
Hong Kong—Cut and polished	Ct. 56,578	53,838	65,056	93,278	57,185	128,422
	£ 2,613,485	3,128,138	4,053,603	5,924,469	5,301,594	11,447,792
Industrial ..	£ —	57	3,500	3,211	—	669
India (b)—Gem diamonds	£ (c) 263	(c) 6,028	(c) 519	2,243,441	2,017,175	3,546,137
Malaya—Cut and polished	£ 51,190	81,330	93,633	123,006	163,896	114,790
Australia (a)—Gem diamonds	Ct. 480	422	4	7	80	118
	£ 3,286	1,122	146	2,764	4,826	5,423
OTHER COUNTRIES						
Belgium-Luxemburg E.U.—						
Cut and polished	Ct. 1,082,159	1,087,704	1,183,562	1,347,032	1,520,733	1,561,285
	£ 41,343,531	44,540,637	48,942,384	56,868,240	69,582,566	74,649,405
Industrial, rough and bort ..	Ct. 4,577,608	6,640,444	6,764,984	9,018,333	8,943,065	9,373,860
	£ 17,244,881	22,746,722	20,487,001	24,042,133	29,477,700	29,255,142
France—Uncut ..	£ 350,755	433,261	548,619	514,358	618,313	643,337
Cut ..	£ 1,455,000	1,388,633	1,003,052	1,083,090	1,605,013	1,205,007
Industrial diamonds	£ 59,508	16,201	41,497	35,277	32,885	34,812
Dust ..	£ 18,707	16,086	44,767	41,108	40,851	40,505
Netherlands ..	Ct. 1,541,182	1,874,833	958,519	1,463,794	1,078,097	965,766
	£ 16,012,000	16,293,000	7,954,000	9,233,929	10,412,728	10,102,000
Dust ..	Ct. 516,418	721,431	655,214	671,432	695,156	879,989
	£ 528,000	729,000	665,000	668,948	671,168	829,210
Sweden—Industrial diamonds	£ 67,409	54,400	57,500	64,938	68,136	64,300
Angola ..	Ct. 933,646	1,276,573	985,776	1,293,243	1,094,541	1,157,411
	£ 6,182,777	8,254,996	6,931,325	9,571,554	9,321,830	11,275,960
Congo Republic—Gem diamonds ..	Ct. 451,679	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
	£ 894,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Industrial diamonds	Ct. 9,904,766	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
	£ 7,047,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Central African Republic ..	Ct. 83,642	98,361	175,267	395,542	421,040	509,445
	£ 611,000	543,738	1,039,244	3,827,354	4,474,569	5,105,142
Guinea ..	Ct. 1,116,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
	£ 3,600,000	2,800,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ivory Coast ..	Ct. 197,805	531,390	415,910	213,515	235,975	199,015
	£ 497,000	1,168,000	807,000	567,055	664,398	663,000
Liberia ..	Ct. 976,437	1,095,632	905,000	748,000	571,868	<i>n.a.</i>
	£ 818,000	794,000	<i>n.a.</i>	<i>n.a.</i>	1,392,000	<i>n.a.</i>

- (a) Years ended June 30 of that stated.
- (b) Years ended March 31 following that stated.
- (c) Excluding diamonds sent by post.



EXPORTS OF DIAMONDS (cont.)

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
<b>South Africa (a)—</b>						
Uncut .. .. Ct.	1,596,982	1,818,244	1,743,794	2,043,307	1,809,284	<i>n.a.</i>
£	23,858,284	29,623,940	25,198,054	32,816,417	37,027,602	<i>n.a.</i>
Cut and polished Ct.	129,545	138,718	132,968	124,118	111,429	<i>n.a.</i>
£	11,115,174	12,280,549	11,395,195	10,207,231	10,444,073	<i>n.a.</i>
<b>United States—</b>						
Uncut .. .. Ct.	21,967	31,315	22,543	28,663	39,335	60,573
£	295,273	547,587	563,552	791,556	927,795	1,102,237
Cut .. .. Ct.	12,228	33,337	30,005	68,939	112,975	98,870
£	1,883,566	4,003,891	4,940,386	11,791,063	13,907,174	14,329,631
Industrial diamonds Ct.	306,331	475,211	715,042	1,068,239	1,324,195	2,003,218
£	461,600	650,851	807,423	1,179,434	1,686,715	2,616,860
Dust .. .. Ct.	321,373	490,327	828,611	1,095,737	1,892,097	1,147,838
£	300,584	484,491	791,906	1,065,309	1,467,212	1,168,736
<b>Brazil .. ..</b>						
£	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
<b>Venezuela .. ..</b>						
Ct.	58,287	57,277	82,189	49,583	88,960	<i>n.a.</i>
£	459,000	521,000	915,000	678,000	<i>n.a.</i>	<i>n.a.</i>
<b>Israel—</b>						
Polished .. .. Ct.	627,163	738,975	975,576	1,152,787	1,240,737	1,332,728
£	21,735,184	25,106,727	31,804,487	41,421,821	49,161,000	54,966,168
Industrial .. .. Ct.	66,984	75,434	96,284	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
£	214,907	247,997	279,167	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Dust .. .. Ct.	2,020	6,963	5,291	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
£	472	7,566	4,879	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

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

	1960	1961	1962	1963	1964	1965
Ct. .. ..	—	<i>n.a.</i>	998,519	1,475,231	2,638,598	<i>n.a.</i>
£ .. ..	—	<i>n.a.</i>	550,494	1,156,355	810,418	<i>n.a.</i>

IMPORTS OF DIAMONDS

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom Ct.	17,654,895	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
(b) .. .. . £	64,976,439	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	149,220,456	177,303,000
Malta—						
Rough diamonds £	—	<i>n.a.</i>	31,346	69,968	2,901	7,546
Cut and polished £	487	236	1,515	2,283	3,804	6,204
Zambia—						
Industrial diamonds						
Ct.	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	144,323	9,857
£	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	227,974	13,919
Canada—						
Unset .. .. Ct.	55,803	52,992	55,865	57,166	(e) 65,208	(e) 69,924
£	2,839,772	2,775,652	2,690,080	2,642,916	e) 3,552,982	(e) 4,090,331
Dust, bort, etc. . . Ct.	125,083	324,388	997,396	999,454	1,318,785	1,285,945
£	176,906	566,808	1,764,130	1,704,873	2,214,178	2,168,271
Bermuda .. .. £	41,887	(a) 148,071	(a) 31,582	<i>n.a.</i>	<i>n.a.</i>	—
Ceylon—						
Cut and polished Ct.	26,582	363	—	—	—	—
£	165,644	21,302	—	—	—	—
Hong Kong—						
Gem diamonds . . Ct.	r 229,535	r 267,249	r 306,790	r 332,925	136,284	254,894
£	r 8,957,266	r 11,126,214	r 12,866,232	r 12,678,209	4,790,550	9,133,870
Industrial diamonds £	2,088	r 7,243	r (a) 2,443	r (a) 1,695	4,772	(a) 462
India (c)—						
Gem diamonds .. £	49,796	56,620	89,321	116,315	8,696	149,695
Industrial and bort £	68,777	103,568	32,279	39,516	192,683	139,552
Malaya—						
Gem diamonds £	372,127	265,043	219,599	496,503	494,538	694,901
Australia (d)—						
Industrial diamonds Ct.	313,175	283,895	217,759	260,400	470,928	370,697
£	431,983	365,770	326,921	375,285	593,615	571,405
Other diamonds Ct.	17,708	17,506	10,760	20,370	28,506	32,349
£	893,442	779,469	784,045	903,575	1,046,208	1,315,222
New Zealand—						
Industrial diamonds £(N.Z.)	9,837	5,370	11,458	(d) 11,644	(d) 10,492	<i>n.a.</i>
Other diamonds £(N.Z.)	220,899	205,771	179,432	(d) 217,332	(d) 196,433	<i>n.a.</i>
<b>OTHER COUNTRIES</b>						
Belgium-Luxemburg						
E.U.—						
Rough diamonds Ct.	4,334,642	3,615,331	3,880,889	4,652,817	5,080,413	5,764,017
£	36,941,788	35,678,869	36,237,817	40,490,058	50,393,320	52,376,176
Cut diamonds .. Ct.	301,490	256,641	245,103	404,554	428,975	484,589
£	15,099,970	14,143,737	14,689,707	23,868,326	27,962,424	29,984,182
Industrial, rough and bort .. .. Ct.	6,273,589	8,597,046	8,038,843	8,706,554	9,440,154	8,827,020
£	12,726,377	17,740,487	13,824,796	14,763,283	16,659,322	16,821,049
France—						
Uncut .. .. . £	2,755,656	2,131,579	2,604,433	2,273,907	2,346,682	2,389,651
Cut and polished £	2,493,600	2,688,875	3,121,584	4,115,598	5,337,109	4,638,958
Industrial diamonds £	7,917	13,573	6,977	3,790	5,408	32,769
Dust .. .. . £	725,792	624,421	744,041	904,300	950,599	1,086,192

(a) Excess of re-exports.

(b) Official import figures are not available before 1964. In lieu, those shown for 1960 represent exports of rough diamonds from Ghana, Sierra Leone, Tanzania, British Guiana, Angola, Congo Republic, South Africa and South West Africa to the United Kingdom as recorded by those countries. In the case of South Africa, figures represent diamonds of known South African origin only and exclude re-exports of imported diamonds.

(c) Years ended March 31 following that stated.

(d) Years ended June 30 of that stated.

(e) Excluding uncut.

IMPORTS OF DIAMONDS (cont.)

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Netherlands .. Ct.	63,179	<i>n.a.</i>	1,304,671	1,826,812	1,438,384	1,183,579
£	1,004,000	<i>n.a.</i>	7,934,000	8,398,214	10,275,512	10,747,441
Dust .. .. Ct.	45,393	—	506,539	539,315	597,020	950,459
£	48,000	—	476,000	485,913	541,998	835,370
Norway .. .. Ct.	<i>n.a.</i>	2,000	12,765	4,980	5,000	95,000
£	2,446	750	2,216	1,085	1,952	2,451
Sweden—						
Industrial diamonds £	486,079	319,600	293,900	389,982	284,224	452,200
South Africa—						
Rough diamonds ..	(a)	(a)	(a)	(a)	(a)	(a)
Cut and polished Ct.	803	971	446	1,163	1,423	<i>n.a.</i>
£	29,749	30,916	18,453	31,881	60,807	<i>n.a.</i>
Mexico—						
Uncut .. .. Ct.	25,475	4,975	5,460	3,040	2,125	<i>n.a.</i>
£	76,172	56,856	54,813	51,311	29,410	<i>n.a.</i>
Industrial diamonds Ct.	133,785	189,400	114,555	102,585	131,225	<i>n.a.</i>
£	97,862	75,593	87,402	116,147	92,918	<i>n.a.</i>
United States—						
Uncut .. .. Ct.	1,365,529	2,274,923	1,420,443	1,749,641	1,547,955	1,900,936
£	31,145,300	40,953,502	36,457,710	46,382,143	53,474,506	62,663,214
Cut and polished Ct.	801,945	839,150	982,278	1,017,620	1,096,795	1,258,745
£	27,771,132	28,073,222	31,739,585	33,563,214	38,858,883	47,081,428
Industrial diamonds Ct.	12,024,853	13,462,739	7,725,194	9,551,542	6,529,209	5,412,395
£	17,358,490	23,696,181	13,868,802	15,646,013	13,775,968	12,355,677
Dust .. .. Ct.	1,121,241	746,707	4,555,949	2,295,486	2,752,382	4,259,995
£	1,088,732	784,214	4,295,036	2,164,991	2,371,582	3,772,443
Bort, manufactured Ct.	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	3,901,982	2,612,309
£	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	3,492,697	2,458,557
Argentina—						
Industrial diamonds Ct.	315,000	3,171,000	17,895,000	1,430,000	905,000	19,922
£	3,700	16,400	22,400	14,400	<i>n.a.</i>	<i>n.a.</i>
Dust .. .. Ct.	10,000	5,000	10,000	2,775	12,060	2,007
£	500	500	400	700	1,200	<i>n.a.</i>
Israel—						
Rough diamonds Ct.	1,510,388	1,644,905	2,154,656	2,962,000	2,972,000	2,708,000
£	17,609,079	18,360,248	25,795,620	35,782,000	41,875,000	39,599,000
Industrial diamonds Ct.	23,885	215	<i>n.a.</i>	213,000	442,000	590,000
£	75,615	1,154	<i>n.a.</i>	620,000	1,231,000	2,043,000
Bort .. .. Ct.	27,487	11,504	<i>n.a.</i>	440,000	542,000	504,000
£	25,399	10,268	<i>n.a.</i>	376,000	426,000	387,000
Dust .. .. Ct.	3,383	24,836	17,030	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
£	2,036	3,932	8,400	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Industrial diamonds Ct.	358,870	254,010	266,420	341,720	382,825	390,220
£	1,081,000	1,013,000	1,031,601	1,407,000	1,819,000	1,857,999

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

	Total imports		Re-exports	
	Carats	£	Carats	£
1960	15,591,198	12,843,624	17,335,315	25,469,252
1961	17,121,816	12,836,498	19,226,908	34,674,533
1962	16,046,826	12,535,491	16,644,518	28,578,832
1963	17,042,298	13,245,064	15,731,598	29,360,073
1964	15,737,300	13,818,406	18,389,917	30,567,203
1965	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

**DIATOMACEOUS EARTH**  
**PRODUCTION OF DIATOMACEOUS EARTH**

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom ..	14,780	22,250	20,011	14,237	13,717	15,079
Kenya .. ..	3,385	3,158	2,863	3,283	3,007	2,183
Canada (a) .. ..	39	191	188	712	1,021	1,071
Australia .. ..	4,659	5,417	7,312	5,133	8,732	2,547
New Zealand .. ..	6,243	3,536	1,874	1,603	1,679	1,729
<b>OTHER COUNTRIES</b>						
Austria .. ..	3,957	5,351	4,119	3,874	3,771	3,970
Denmark—						
Diatomaceous earth (b)	9,400	12,000	11,000	6,000	5,000	<i>n.a.</i>
Moler (b) .. ..	140,000	150,000	160,000	150,000	150,000	180,000
Finland .. ..	1,800	700	1,181	2,300	2,136	<i>n.a.</i>
France (f) .. ..	125,418	105,740	125,083	130,629	130,981	148,256
Germany (Federal) ..	45,700	64,500	60,490	42,250	47,086	51,790
Italy .. ..	46,329	56,295	55,695	58,490	68,255	<i>n.a.</i>
Portugal (f) .. ..	1,046	756	1,427	1,845	1,970	<i>n.a.</i>
Spain (f) .. ..	12,357	17,273	11,922	10,026	11,167	<i>n.a.</i>
Sweden .. ..	421	654	225	357	214	400
Yugoslavia (e) .. ..	4,000	4,000	4,000	10,000	10,000	10,000
Algeria .. ..	21,957	31,440	26,995	17,369	19,788	15,500
Egypt .. ..	719	296	50	818	39,989	71,763
Mozambique .. ..	94	354	344	—	—	—
South Africa .. ..	309	122	578	196	487	961
Costa Rica .. ..	2,165	640	738	(e) 1,900	(e) 3,500	(e) 3,500
Nicaragua .. ..	2,008	2,657	1,262	(e) 1,600	—	—
United States .. ..	<i>r(c)</i> 430,543	<i>r(c)</i> 430,543	<i>r(c)</i> 430,543	(d) 518,105	(d) 518,105	(d) 518,105
Argentina .. ..	<i>r</i> 2,073	<i>r</i> 3,422	<i>r</i> 3,340	<i>r</i> 5,585	7,649	<i>n.a.</i>
Colombia .. ..	393	295	150	2,200	227	200
Peru .. ..	1,006	1,829	1,450	<i>r</i> 2,440	2,500	<i>n.a.</i>
Korea (South) .. ..	2,400	1,776	677	1,667	36,635	570

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

(a) Shipments.

(b) Estimated.

(c) Average annual production 1960—1962.

(d) Average annual production 1963-1965

(e) United States Bureau of Mines' estimate.

(f) Including tripoli.

## EXPORTS OF DIATOMACEOUS EARTH

Long tons

Exporting Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Kenya .. .. .	882	1,185	1,210	1,929	1,646	1,161
<b>OTHER COUNTRIES</b>						
Austria .. .. .	125	176	101	161	133	136
Belgium-Luxemburg E.U. .. .. .	899	792	354	797	951	926
Denmark—						
Diatomaceous earth ..	12,539	12,459	9,837	9,413	8,711	9,065
Moler .. .. .	86,091	91,602	92,388	81,648	80,950	102,041
Moler bricks .. .. .	28,111	29,885	32,467	33,740	35,944	41,036
Finland .. .. .	62	79	125	99	117	2,139
France .. .. .	8,184	2,977	14,434	12,001	14,360	16,302
Germany (Federal) ..	2,942	3,955	3,747	3,582	4,501	5,869
Italy .. .. .	3,146	4,472	2,902	1,311	788	4,060
Netherlands .. .. .	253	78	107	111	93	142
Norway .. .. .	1	3	2	1	—	2
Portugal .. .. .	112	305	283	275	532	459
Sweden .. .. .	45	70	26	32	90	106
Yugoslavia .. .. .	1,280	3,365	8,966	5,108	5,459	3,572
Algeria .. .. .	23,557	15,000	16,076	12,951	14,088	10,028
South Africa .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	654	<i>n.a.</i>
United States .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	114,287	101,632
Chile .. .. .	12	5	5	—	<i>n.a.</i>	<i>n.a.</i>
Japan .. .. .	155	139	221	153	449	436
Korea (South) .. .. .	—	—	<i>n.a.</i>	—	<i>n.a.</i>	<i>n.a.</i>

## IMPORTS OF DIATOMACEOUS EARTH

Long tons

Importing Country	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—						
In bulk (a) .. .. .	35,359	40,963	39,888	} 53,620	56,238	45,927
Other .. .. .	22,872	21,670	23,720			
Canada .. .. .	25,884	25,781	23,302	23,761	22,401	22,401
India (d) .. .. .	695	1,241	1,291	1,067	1,528	1,753
Australia (b) .. .. .	3,914	4,543	4,317	4,259	4,579	5,789
New Zealand .. .. .	1,542	1,499	1,593	(b) 1,777	(b) 1,333	n.a.
OTHER COUNTRIES						
Austria .. .. .	1,449	1,250	1,398	1,422	1,642	2,156
Belgium-Luxemburg						
E.U. .. .. .	4,098	3,450	4,414	6,353	7,589	8,391
Denmark .. .. .	959	1,454	1,091	1,321	1,732	1,748
Finland .. .. .	351	1,162	2,130	1,245	1,010	752
France .. .. .	13,278	12,351	10,500	8,822	13,793	7,860
Germany (Federal) .. .. .	59,292	61,541	74,089	61,656	61,732	85,876
Iceland .. .. .	503	495	3	828	604	511
Italy .. .. .	3,089	8,721	2,468	1,637	6,975	7,959
Netherlands .. .. .	7,624	5,830	7,456	6,544	8,051	8,397
Norway .. .. .	3,264	5,154	5,834	3,789	3,983	3,878
Portugal .. .. .	932	1,357	641	848	1,197	1,493
Spain .. .. .	n.a.	407	1,512	1,649	1,696	1,528
Sweden .. .. .	4,671	5,371	5,081	7,291	8,369	8,634
Switzerland .. .. .	3,356	2,791	3,077	2,340	1,903	1,568
Yugoslavia .. .. .	20	104	49	147	247	140
Algeria .. .. .	147	n.a.	n.a.	n.a.	n.a.	n.a.
Angola .. .. .	n.a.	27	70	87	82	145
Egypt .. .. .	1,910	1,791	1,839	2,275	397	2,305
Morocco .. .. .	643	456	457	730	751	763
South Africa .. .. .	1,054	2,501	2,382	2,618	4,107	n.a.
Costa Rica .. .. .	39	77	14	379	1,275	1,085
Guatemala .. .. .	78	88	115	141	186	292
Honduras .. .. .	68	81	95	75	85	106
Mexico (c) .. .. .	1,068	1,165	3,025	1,208	1,108	n.a.
Salvador .. .. .	180	116	235	332	430	361
Brazil .. .. .	1,029	1,719	1,103	1,653	1,187	1,667
Chile (c) .. .. .	75	148	487	799	n.a.	n.a.
Colombia .. .. .	1,193	1,035	1,417	856	1,166	1,124
Peru (c) .. .. .	819	846	906	908	1,675	3,395
Venezuela .. .. .	1,759	2,313	2,731	1,931	2,602	1,958
Israel .. .. .	176	410	827	527	190	193
Japan .. .. .	5,174	6,147	820	637	839	763
Lebanon .. .. .	62	41	162	746	652	n.a.
Philippine Republic .. .. .	n.a.	2,119	1,862	877	269	n.a.
Thailand .. .. .	191	25	—	5	7	30
Turkey .. .. .	4	7	11	28	56	47

(a) Chiefly moler from Denmark:

(b) Years ended June 30 of that stated.

(c) Including tripoli, etc.

(d) Years ended March 31 following that stated.

**FELDSPAR**  
(see also Nepheline Syenite)  
**PRODUCTION OF FELDSPAR**

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom—						
China stone .. ..	47,186	49,432	51,661	50,000	57,000	43,000
Kenya .. .. .	—	1	—	—	—	—
Canada .. .. .	12,377	9,381	8,923	7,686	8,169	9,670
Ceylon .. .. .	32	106	56	109	4	613
Hong Kong .. ..	2,511	1,206	937	1,680	1,556	1,119
India .. .. .	10,395	r 9,704	r 15,743	20,901	23,997	23,829
Pakistan .. .. .	n.a.	n.a.	55	r 1,520	48	(c) 1,000
Australia (a) .. .	8,414	8,209	8,513	8,842	9,021	8,909
<b>OTHER COUNTRIES</b>						
Austria .. .. .	4,573	3,907	4,976	2,077	1,603	1,397
Finland .. .. .	9,158	15,000	14,920	12,620	10,560	11,685
France .. .. .	74,000	92,000	119,000	180,000	n.a.	n.a.
Germany (Federal) (b) ..	264,203	265,449	269,769	273,664	299,989	313,280
Italy .. .. .	85,076	93,228	98,367	100,486	109,851	90,803
Norway—						
Unground .. .. .	65,000	(e) 64,000	(e) 54,000	55,599	47,475	n.a.
Ground .. .. .	20,000	(e) 22,000	(e) 20,000	20,506	22,547	n.a.
Poland .. .. .	n.a.	n.a.	n.a.	26,300	(c) 26,300	(c) 26,300
Portugal .. .. .	1,699	2,892	3,674	396	10,895	n.a.
Spain .. .. .	11,924	8,194	8,267	12,477	16,466	n.a.
Sweden (d)—						
Unground .. .. .	29,985	30,523	28,454	17,409	21,606	18,300
Ground .. .. .	24,532	25,344	24,894	27,512	29,353	28,000
U.S.S.R. (c) .. .. .	195,000	195,000	195,000	195,000	195,000	195,000
Yugoslavia .. .. .	13,780	20,215	31,578	29,413	33,260	(c) 34,400
Angola .. .. .	—	—	—	796	493	(c) 500
Egypt .. .. .	354	—	—	—	4,653	n.a.
Eritrea .. .. .	984	2,953	425	(c) 490	n.a.	—
Malagasy Republic .. .	—	13	—	—	1	—
South Africa .. .. .	15,600	23,390	28,210	41,372	35,525	41,636
South West Africa .. .	—	88	464	2,196	1,893	2,281
Mexico .. .. .	8,983	14,155	n.a.	n.a.	n.a.	n.a.
United States (d) .. .	502,380	496,808	492,476	548,954	587,194	624,958
Argentina .. .. .	8,418	11,474	r 7,245	r 12,599	6,390	(c) 7,000
Chile .. .. .	1,095	2,280	1,138	417	814	408
Colombia .. .. .	15,000	15,000	15,000	12,500	11,426	10,600
Peru .. .. .	236	992	287	r 217	837	926
Uruguay .. .. .	713	877	692	282	883	1,227
Japan .. .. .	91,453	50,986	46,991	53,339	61,445	n.a.
Korea (South) .. .. .	n.a.	7,520	4,651	11,392	13,468	(c) 15,000
Philippine Republic .. .	3,895	14,526	15,325	6,564	7,924	12,095
Turkey .. .. .	n.a.	n.a.	n.a.	n.a.	2,000	n.a.
<b>TOTAL*</b> .. .. .	<b>1,500,000</b>	<b>1,500,000</b>	<b>1,600,000</b>	<b>1,700,000</b>	<b>1,900,000</b>	<b>1,900,000</b>

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

(a) Including china stone.

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

(c) United States Bureau of Mines' estimate.

(d) Sold or used by producers.

(e) Estimated.

EXPORTS OF FELDSPAR

Long tons

Exporting Country	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
Canada .. .. .	2,842	2,345	3,302	2,930	3,023	3,345
India (b) .. .. .	1,619	1,492	710	2,076	5,282	4,960
OTHER COUNTRIES						
Austria (a) .. .. .	274	344	2,245	553	645	1,725
Belgium-Luxemburg						
E.U. .. .. .	—	—	—	222	84	41
Finland .. .. .	7,164	8,208	10,999	7,821	5,443	8,845
France (a) .. .. .	10,147	10,487	13,451	19,172	26,476	24,938
Germany (Federal) (a) ..	11,557	13,393	11,144	11,759	11,926	11,576
Italy .. .. .	17,305	16,391	16,737	19,126	21,420	22,809
Netherlands (a) .. .. .	7,110	2,251	2,290	4,201	5,033	2,048
Norway—						
Crude .. .. .	42,950	44,688	35,972	35,282	43,158	31,339
Ground .. .. .	19,229	16,308	14,140	15,345	22,077	18,621
Sweden (a) .. .. .	37,587	38,449	30,580	25,816	26,807	19,617
Yugoslavia .. .. .	8,851	10,593	18,451	16,336	20,901	24,779
South Africa .. .. .	2,389	4,774	7,682	10,298	6,255	9,966
South-West Africa .. .. .	—	88	470	874	2,476	1,410
Japan .. .. .	1,291	1,653	1,765	1,729	1,711	2,339
Korea (South) .. .. .	n.a.	n.a.	n.a.	4,008	11,094	21,437

(a) May include some leucite and nephelite.

(b) Years ended March 31 following that stated.

IMPORTS OF FELDSPAR

Long tons

Importing Country	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom .. .. .	37,118	38,023	36,586	36,298	58,101	61,476
Canada .. .. .	1,195	1,537	1,697	2,322	n.a.	n.a.
New Zealand .. .. .	766	443	(a) 1,486	(a)(c) 2,854	(a)(c) 1,399	n.a.
OTHER COUNTRIES						
Austria (b) .. .. .	2,696	4,390	4,311	5,952	7,285	8,366
Belgium-Luxemburg						
E.U. (b) .. .. .	27,226	31,067	31,701	25,406	30,422	29,920
Denmark (b) .. .. .	5,009	4,576	5,483	6,193	4,192	5,307
Finland (b) .. .. .	231	395	648	1,064	727	891
France (b) .. .. .	6,482	7,347	9,865	9,237	10,968	15,688
Germany (Federal) (b) ..	30,277	28,164	32,337	37,265	43,057	50,397
Italy .. .. .	7,857	8,218	9,525	11,260	10,808	14,481
Netherlands (b) .. .. .	25,365	20,814	19,618	28,456	28,489	26,540
Poland .. .. .	4,203	8,961	n.a.	7,366	11,654	n.a.
Sweden (b) .. .. .	151	240	873	313	307	2,870
Algeria (b) .. .. .	738	n.a.	n.a.	n.a.	n.a.	n.a.
Morocco (b) .. .. .	360	251	217	69	—	—
South Africa (b) .. .. .	n.a.	n.a.	n.a.	n.a.	104	n.a.
Mexico .. .. .	3,662	1,911	1,270	1,346	1,413	n.a.
United States .. .. .	7,024	2,553	3,330	3,074	3,180	3,455
Colombia .. .. .	(a) 424	(a) 243	(a) 297	(a) 509	(a) 202	84
Venezuela .. .. .	3,102	4,798	6,492	4,927	7,864	7,827
Israel .. .. .	1,042	2,044	1,909	1,639	2,048	2,658
Japan .. .. .	1,390	1,108	2,543	2,666	5,880	4,251
Vietnam (South) .. .. .	156	126	88	105	n.a.	n.a.

(a) Including fluorspar.

(c) Year ended June 30 of that stated.

(b) May include some leucite and nephelite.



**FLUORSPAR**  
**PRODUCTION OF FLUORSPAR**

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom (a) ..	97,543	85,396	71,744	87,099	107,765	128,933
Rhodesia .. .. .	17	—	18	306	69	n.a.
Canada .. .. .	£705,903	£701,046	£623,083	£654,285	£749,683	£844,892
India .. .. .	—	r 327	647	697	383	268
Australia .. .. .	7	—	—	15	—	—
<b>OTHER COUNTRIES</b>						
France .. .. .	133,344	191,907	223,513	210,353	261,400	238,000
Germany—						
Federal Republic ..	128,102	119,210	104,100	102,921	88,357	81,609
East (b) .. .. .	70,000	70,000	70,000	70,000	70,000	80,000
Italy .. .. .	159,783	154,091	157,776	132,507	122,075	145,527
Spain .. .. .	109,266	144,602	147,640	150,977	147,317	209,025
Sweden (c) .. .. .	2,868	3,162	3,442	2,904	—	n.a.
U.S.S.R. (b) .. .. .	190,000	210,000	235,000	270,000	300,000	350,000
Morocco .. .. .	—	776	487	6,250	6,466	3,000
South Africa .. .. .	101,384	85,591	99,717	51,572	59,313	64,747
South West Africa ..	—	—	214	429	—	—
Tunisia .. .. .	—	—	—	—	—	5,000
Mexico .. .. .	361,150	392,220	494,325	474,012	632,719	723,766
United States (d) ..	205,162	176,209	183,952	178,525	193,872	215,118
Argentina .. .. .	r 5,386	r 10,112	r 12,320	r 9,608	9,816	(b) 10,000
China (b) .. .. .	245,000	200,000	200,000	200,000	200,000	220,000
Japan .. .. .	9,025	14,577	15,286	20,569	18,820	(b) 20,000
Korea (South) .. .. .	18,602	27,491	32,449	39,157	55,506	38,548
Mongolia .. .. .	39,700	37,400	37,300	r(b) 48,000	(b) 56,100	(b) 75,000
Thailand .. .. .	3,405	4,680	10,541	28,768	62,535	51,013
Turkey .. .. .	321	37	572	642	1,282	1,060
<b>TOTAL .. .. .</b>	<b>1,900,000</b>	<b>2,000,000</b>	<b>2,100,000</b>	<b>2,100,000</b>	<b>2,500,000</b>	<b>2,700,000</b>

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

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

(b) United States Bureau of Mines' estimate.

(c) Sales.

(d) Shipments from mine.

## EXPORTS OF FLUORSPAR

Long tons

Exporting Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Canada .. .. .	9,207	1,829	4	2,688	<i>n.a.</i>	<i>n.a.</i>
<b>OTHER COUNTRIES</b>						
France .. .. .	18,104	37,705	43,471	45,836	57,699	84,968
Germany (Federal) .. .. .	17,650	20,959	14,109	11,415	12,146	10,431
Italy .. .. .	71,604	66,010	48,341	37,664	45,921	51,636
Spain .. .. .	100,060	99,900	86,611	85,238	135,149	152,128
Sweden .. .. .	280	343	474	148	58	—
Morocco .. .. .	59	229	<i>n.a.</i>	1,499	8,905	1,422
South Africa .. .. .	99,543	76,469	69,810	52,602	50,503	41,954
South-West Africa .. .. .	—	—	91	—	—	—
Mexico .. .. .	344,446	407,903	460,908	492,368	618,761	670,380
United States .. .. .	409	301	1,168	1,073	3,305	8,419
Argentina .. .. .	271	826	569	549	667	504
Bolivia .. .. .	—	—	<i>n.a.</i>	<i>n.a.</i>	9	<i>n.a.</i>
Korea (South) .. .. .	28,115	32,856	23,238	31,392	31,760	32,013
Thailand .. .. .	907	5,050	6,852	15,624	38,055	47,140

## IMPORTS OF FLUORSPAR

Long tons

Importing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Canada .. .. .	53,279	29,177	60,578	59,625	62,487	62,364
India (c) .. .. .	3,760	8,001	7,157	10,377	4,226	3,111
Australia (a) .. .. .	3,701	2,137	2,692	7,585	5,915	8,430
<b>OTHER COUNTRIES</b>						
Austria .. .. .	14,763	12,444	8,010	8,307	14,362	13,794
Belgium-Luxemburg .. .. .	—	—	—	—	—	—
E.U. .. .. .	8,157	6,819	6,339	6,328	8,005	7,059
Denmark .. .. .	917	642	569	456	472	597
Finland .. .. .	<i>n.a.</i>	5,867	4,802	2,905	3,162	6,282
France .. .. .	2,659	502	224	76	—	324
Germany (Federal) .. .. .	14,606	69,245	64,581	46,642	59,773	109,095
Italy .. .. .	210	7,370	7,998	9,778	14,559	5,587
Netherlands .. .. .	9,755	7,148	10,937	8,702	14,243	18,672
Norway .. .. .	1,837	2,724	1,512	1,534	1,859	3,094
Poland .. .. .	21,800	26,100	<i>n.a.</i>	22,000	26,400	<i>n.a.</i>
Sweden .. .. .	12,270	13,196	14,097	10,698	11,020	20,553
U.S.S.R. .. .. .	74,100	74,800	78,900	89,500	130,400	114,500
Yugoslavia .. .. .	2,373	3,057	3,418	3,026	3,972	3,429
Algeria .. .. .	96	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Mexico .. .. .	2	—	—	50	11	<i>n.a.</i>
United States .. .. .	476,804	451,571	532,044	495,646	614,226	729,059
Brazil .. .. .	310	639	543	443	—	—
Colombia .. .. .	(b) 424	(b) 243	(b) 297	(b) 509	(b) 202	186
Venezuela .. .. .	103	166	542	382	475	164
Israel .. .. .	<i>n.a.</i>	<i>n.a.</i>	361	756	513	915
Japan .. .. .	99,019	123,857	100,629	126,856	203,573	168,851

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

(b) Including feldspar.

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

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
India .. .. .	11,211	(b) 7,000	(b) 16,000	(b) 39,000	<i>n.a.</i>	<i>n.a.</i>
Pakistan .. .. .	98	10,793	8,882	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Australia .. .. .	90	192	392	70	159	89
<b>OTHER COUNTRIES</b>						
Algeria .. .. .	100,419	114,554	37,820	80,319	52,087	58,940
Morocco .. .. .	37,077	37,993	32,124	36,777	31,779	37,009
South Africa .. .. .	(c) 511	707	934	879	161	580
United States (a) .. .. .	364,576	376,947	366,062	430,194	492,755	602,162
Iran (d) .. .. .	1,800	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

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

(a) Sold or used by producers.

(c) Sales.

(b) Estimated.

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

**EXPORTS OF FULLER'S EARTH\***

Long tons

Exporting Country	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
Morocco .. .. .	25,412	27,148	25,897	28,867	22,833	21,956
United States .. .. .	(a) 10,746	r (a) 250	r (a) 214	<i>n.a.</i>	<i>n.a.</i>	16,585
Iran (b) .. .. .	<i>n.a.</i>	26	27	16	74	7

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

(a) As recorded by producers.

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

**IMPORTS OF FULLER'S EARTH**

Long tons

Importing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Malawi .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	48	<i>n.a.</i>
Zambia .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	157
Canada .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	5,566	6,125
	(£69,069)	(£55,302)	(£57,827)	(£46,660)	(£61,410)	(£65,546)
Ceylon .. .. .	94	123	147	211	354	201
India (b) .. .. .	331	403	120	129	254	177
Australia (a) .. .. .	318	—	—	—	—	—
New Zealand .. .. .	274	270	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
<b>OTHER COUNTRIES</b>						
South Africa .. .. .	1,244	745	977	1,137	<i>n.a.</i>	<i>n.a.</i>
Chile .. .. .	252	1,292	942	423	<i>n.a.</i>	<i>n.a.</i>
Peru .. .. .	963	1,782	1,964	2,186	1,487	1,214
Venezuela .. .. .	279	596	501	439	549	913
Burma .. .. .	855	928	978	48	139	337
Israel .. .. .	1,161	1,334	2,376	3,666	4,526	<i>n.a.</i>

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

**GOLD**  
**PRODUCTION OF GOLD**  
*(Metal content)*

Fine troy ounces

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Bechuanaland Protectorate .. .. .	203	261	288	142	10	—
Ghana .. .. .	878,800	833,800	888,700	920,895	864,918	755,191
Kenya .. .. .	8,646	12,299	9,327	10,193	12,480	11,420
Nigeria .. .. .	779	543	329	252	195	63
Rhodesia .. .. .	562,702	570,095	544,647	566,278	575,386	544,100
Sierra Leone .. .. .	—	19	26	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Swaziland .. .. .	806	1,325	2,214	2,092	2,078	1,619
Tanzania .. .. .	(a)106,711	(a)100,425	104,383	100,399	93,338	(b) 90,819
Uganda (b) .. .. .	650	383	240	50	—	40
Zambia .. .. .	6,300	4,192	5,326	4,960	5,130	5,196
Canada .. .. .	4,628,911	4,473,699	4,178,396	r 4,003,127	3,835,454	3,608,348
British Guiana .. .. .	2,170	1,562	1,747	2,613	1,936	1,906
India .. .. .	160,600	156,500	163,300	138,400	148,500	130,600
Malaya (c) .. .. .	19,700	11,900	6,600	8,700	6,900	3,800
Sarawak .. .. .	3,326	4,132	2,885	2,773	3,115	2,601
Australia .. .. .	1,086,709	1,076,292	1,068,837	1,023,970	963,834	876,873
Fiji .. .. .	72,203	83,417	87,354	107,262	100,493	109,905
New Guinea and Papua .. .. .	45,150	41,820	39,052	43,599	38,978	32,494
New Zealand .. .. .	33,326	28,294	21,742	14,206	8,948	12,136
<b>TOTAL .. .. .</b>	<b>7,618,000</b>	<b>7,401,000</b>	<b>7,125,000</b>	<b>r 6,950,000</b>	<b>6,662,000</b>	<b>6,186,000</b>
<b>OTHER COUNTRIES</b>						
Finland .. .. .	20,351	20,609	15,239	20,416	22,055	18,037
France .. .. .	46,040	48,680	51,090	53,630	54,296	57,390
Germany (Federal) .. .. .	1,283	2,186	1,704	(d) 2,000	(d) 2,000	(d) 2,000
Greece .. .. .	2,900	—	—	—	—	—
Italy .. .. .	3,310	600	—	—	—	—
Portugal .. .. .	21,900	22,400	21,900	21,900	21,300	20,500
Spain .. .. .	14,000	8,200	6,700	16,000	24,000	8,800
Sweden .. .. .	94,070	86,870	128,600	r 115,200	117,700	118,100
Yugoslavia .. .. .	63,980	67,195	70,507	83,656	106,773	(d) 112,500
Angola .. .. .	42	48	77	37	4	2
Cameroun .. .. .	416	537	580	r 1,743	864	1,352
Central African Republic .. .. .	300	80	100	100	75	30
Congo (Republic of) .. .. .	3,670	3,389	3,790	3,000	3,570	3,700
Congo Republic .. .. .	314,100	232,600	205,000	214,100	189,000	66,000
Egypt .. .. .	1,214	931	—	—	—	—
Eritrea .. .. .	5,144	5,529	2,315	(d) 2,300	(d) 2,300	} 24,236
Ethiopia .. .. .	40,915	41,500	25,700	(d) 25,000	(d) 25,000	
Gabon .. .. .	17,700	15,300	16,200	35,700	42,800	37,100
Liberia (d) (e) .. .. .	1,119	2,088	2,184	1,960	1,824	1,701
Malagasy Republic .. .. .	300	350	325	900	440	598
Morocco .. .. .	104	136	—	—	—	—
Mozambique .. .. .	225	105	91	29	40	30
Rwanda and Burundi .. .. .	1,566	817	30	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
South Africa .. .. .	21,383,019	22,941,561	25,491,993	27,431,956	29,111,524	30,553,874
South-West Africa .. .. .	—	—	183	3	32	14
Sudan .. .. .	2,116	1,266	932	877	<i>n.a.</i>	<i>n.a.</i>

(a) Including gold in lead concentrates exported amounting to 8,963 ounces in 1960 and 521 ounces in 1961.

(b) Exports.

(c) Estimated

(d) United States Bureau of Mines' estimate.

(e) Years ended August 31 of year stated.

## PRODUCTION OF GOLD (cont.)

Fine troy ounces

Producing Country	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b> (cont.)						
Upper Volta .. ..	930	(b) 16,000	39,770	44,790	32,670	34,470
Costa Rica (c) .. ..	3,000	3,000	3,000	3,000	3,000	600
Cuba (e) .. ..	348	—	—	61	—	3
Dominican Republic .. ..	(e) 308	—	—	—	—	—
Guatemala .. ..	—	—	(e) 8	—	—	—
Haiti .. ..	(c) 1,400	4,341	7,149	6,778	8,090	(c) 8,000
Honduras (e) .. ..	2,172	1,685	2,132	2,474	3,319	3,546
Mexico .. ..	300,300	268,678	236,800	237,900	210,000	215,800
Nicaragua .. ..	210,200	226,250	221,984	204,769	211,900	198,152
Salvador .. ..	1,100	—	(e) 692	(e) 230	(e) 390	(e) 290
United States .. ..	1,666,772	1,548,270	1,542,511	1,454,010	1,456,308	1,705,190
Argentina .. ..	r 3,506	2,270	960	480	300	60
Bolivia (d) .. ..	45,457	81,216	35,052	153,033	50,042	84,950
Brazil (a) .. ..	118,900	118,600	127,200	132,000	142,500	161,000
Chile .. ..	r 54,370	r 53,150	r 58,320	r 75,880	63,080	57,100
Colombia .. ..	433,947	401,060	396,827	324,518	364,748	316,267
Ecuador .. ..	15,209	15,210	20,591	21,041	16,905	11,512
French Guiana .. ..	18,900	7,900	5,300	7,000	—	—
Peru .. ..	141,001	137,418	122,985	101,019	92,503	96,863
Surinam .. ..	4,932	r 4,019	2,604	r 3,548	8,258	6,269
Venezuela .. ..	46,868	30,071	28,774	26,947	33,536	22,390
Burma .. ..	304	194	(c) 200	(c) 200	(c) 200	(c) 200
Cambodia .. ..	4,180	4,180	965	6,687	(c) 6,000	(c) 4,500
Formosa .. ..	15,700	17,600	24,000	31,700	17,700	32,100
Indonesia .. ..	(c) 5,000	5,337	4,469	4,437	(c) 5,300	6,752
Japan .. ..	261,496	294,534	286,593	262,142	253,300	264,400
Korea (South) .. ..	65,810	84,110	106,500	90,090	75,780	62,820
Philippine Republic .. ..	410,618	423,983	423,394	376,006	425,770	435,545
<b>TOTAL*</b> .. ..	<b>25,900,000</b>	<b>27,200,000</b>	<b>29,700,000</b>	<b>31,600,000</b>	<b>33,200,000</b>	<b>34,800,000</b>
<b>WORLD'S TOTAL*</b> (excl. U.S.S.R.) .. ..	<b>33,500,000</b>	<b>34,600,000</b>	<b>36,800,000</b>	<b>38,500,000</b>	<b>39,900,000</b>	<b>40,900,000</b>

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

(a) Mined gold only.

(d) Exports.

(b) Estimated.

(e) Imports into the United States.

(c) United States Bureau of Mines' estimate.

**TOTAL EXPORTS OF GOLD\***

(Metal content)

Fine troy ounces

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom—						
Bullion, refined .. .. .	21,462,066	24,604,143	28,965,803	18,985,458	17,593,435	76,518,000
Coin .. .. .	350,165	868,860	694,102	865,340	2,408,318	2,100,800
Ghana—						
Bullion .. .. .	893,113	852,619	945,829	910,367	830,839	782,723
Kenya—						
Bullion .. .. .	8,645	12,100	8,917	8,868	12,162	13,813
Rhodesia (d)—						
Concentrates, etc.* .. .	1,900	1,500	1,400	1,200	1,000	n.a.
Bullion .. .. .	556,178	565,169	548,999	557,271	565,110	n.a.
Tanzania—						
Concentrates .. .. .	8,963	521	—	—	—	—
Bullion, refined .. .	98,024	99,574	101,597	102,519	93,040	90,819
Uganda—						
Bullion .. .. .	650	383	240*	50*	—	40*
Canada—						
Bullion—						
Unrefined .. .. .	96,986	75,796	60,812	76,131	87,797	87,479
Refined .. .. .	6,125,624	3,658,605	2,769,243	2,305,337	3,161,509	1,940,013
Coin* .. .. .	n.a.	60	39,200	47,700	71,800	124,410
British Guiana—						
Bullion .. .. .	—	1	21	n.a.	n.a.	n.a.
India—						
Bullion .. .. .	(b) —	(b) 1	—	n.a.	n.a.	n.a.
Malaya—						
Bullion .. .. .	4,559	278	2,211	—	3	70
Australia (a)—						
Ores, etc. .. .. .	25,085	28,930	42,195	47,305	55,568	48,543
Bullion, refined .. .	653,097	2,552,869	573,106	394,950	449,003	576,575
do. unrefined .. .	—	—	7	16,018	562	157
Fiji—						
Bullion .. .. .	71,677	95,349	84,926	111,260	(c) 100,193	(c) 109,760
New Guinea (a)—						
Bullion .. .. .	40,321	43,363	45,910	42,576	42,003	34,262
New Zealand*—						
Auriferous quartz, etc.	6	—	—	n.a.	n.a.	n.a.
Beaten, rolled or drawn	25,000	22,000	16,000	18,000	8,000	n.a.
Papua (a)—						
Bullion .. .. .	128	75	19	48	28	56
Solomon Islands—						
Bullion .. .. .	14	59	457	240	101	323
Irish Republic*—						
Bullion .. .. .	600	1,500	5,200	r 1,502	1,338	1,380

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

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

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

(d) Figures for years 1960 to 1963 relate to Rhodesia and Nyasaland.

## EXPORTS OF GOLD (cont.)

Fine troy ounces

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
Belgium-Luxemburg						
E.U.—						
Bullion and scrap ..	215,000	40,000*	79,000*	51,000	48,000	51,000
Coin .. .. .	170,000	186,000	235,000	289,000	113,000	60,000
France—						
Bullion and scrap ..	644,000	1,011,000	632,000*	691,000	<i>n.a.</i>	<i>n.a.</i>
Coin .. .. .	57,000	18,000	—	57,000	<i>n.a.</i>	<i>n.a.</i>
Beaten, rolled or drawn	42,000*	49,000*	30,000*	32,000	28,000	21,000*
Germany (Federal)—						
Bullion .. .. .	112,000	127,000	157,000	204,000	241,000	316,800
Netherlands—						
Bullion, etc. .. ..	51,000*	77,000*	76,000	13,000*	17,000*	78,000*
Coin .. .. .	4,000	5,000	400	—	1,100	—
Sweden*—						
Bullion .. .. .	49,000	49,000	52,000	54,000	57,000	56,000
Switzerland—						
Bullion .. .. .	294,000	244,000	272,000	377,000	497,000	720,000
Cameroun—						
Bullion .. .. .	300	600	700*	1,600	800	700*
Congo Republic—						
Bullion .. .. .	(a) 300,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Equatorial African Community—						
Bullion .. .. .	20,000	16,000*	14,000*	33,000	35,000*	30,000*
Mozambique—						
Bullion .. .. .	—	376,000	r 228,000*	397,000*	393,000*	291,000
South Africa—						
Ore and concentrates*..	800	640	1,393	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Bullion .. .. .	22,836,000	19,505,000	19,390,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sudan*—						
Bullion .. .. .	2,000	400	600	—	200	<i>n.a.</i>
Upper Volta—						
Bullion .. .. .	1,000	7,000	28,000	45,000	33,000	<i>n.a.</i>
Honduras—						
Ore and base bullion ..	2,286	2,310	10,819	3,044	2,200*	—
Mexico—						
Bullion .. .. .	625,000	614,000	36,000	30,000	22,000	<i>n.a.</i>
Nicaragua—						
Bullion .. .. .	198,189	210,748	221,325	203,386	200,749	153,900*
Salvador—						
Bullion, etc. .. ..	1,000	—	—	—	—	—
United States—						
Ore and base bullion ..	9,196	13,717	22,724	30,107	21,566	49,836
Refined bullion.. ..	37,676	22,132,692	10,861,510	5,789,826	12,056,841	36,667,207
Argentina—						
Bullion and coin .. ..	9,000	—	—	—	—	—
Bolivia—						
Ore .. .. .	24,388	258	430	336	488	300
Bullion .. .. .	21,069	80,958	34,622	152,697	49,554	84,650
Chile—						
Ores and concentrates	49,014	48,043	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ecuador—						
Concentrates* .. ..	18,000	15,000	20,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
French Guiana—						
Bullion .. .. .	18,000*	8,000*	5,500*	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Peru—						
Ores, concentrates, etc.	57,325	54,416	58,902	40,197	36,847	35,734
Bullion .. .. .	35,295	18,946	12,497	3,658	2,487	8,900
Venezuela—						
Bullion*.. .. .	3,007,000	—	—	—	—	—

(a) Estimated.

EXPORTS OF GOLD (cont.)

Fine troy ounces

Exporting Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES (cont.)						
Philippine Republic— Ore and base bullion (a)	67,553	80,507	47,673	56,138	n.a.	n.a.
Refined bullion (a)	286,298	466,782	298,229	291,045	n.a.	n.a.

(a) Imports into the United States.



TOTAL IMPORTS OF GOLD\*

(Metal content)

Fine troy ounces

Importing Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore, etc.* .. ..	49,800	49,700	59,300	70	300	8,000
Bullion—						
Unrefined .. ..	1,559,520	1,521,129	1,539,964	1,675,865	1,550,421	1,527,000
Refined .. ..	24,956,264	49,265,267	32,542,211	32,622,702	39,299,321	37,885,000
Coin .. ..	4,361	9,980	500,348	382,260	451,450	551,000
Malta*—						
Bullion and coin .. ..	8,600	8,300	6,300	7,000	9,200	11,000
Ghana—						
Bullion .. ..	} 1,412	{ 160,190	1,425	7,034	4,942	—
Partly worked .. ..			1,499	1,094	808	1,904
Coin .. ..			1,060	—	—	2,115
Kenya—						
Bullion .. ..	123	294	398	634	5,285	6,858
Nigeria—						
Bullion and coin .. ..	20	—	—	—	—	—
Rhodesia* (d)—						
Concentrates .. ..	1,700	2,400	3,900	2,800	2,200	n.a.
Tanzania—						
Bullion .. ..	—	—	—	1,269	1,434	2,700
Uganda—						
Bullion .. ..	563	240	—	1,152	2,599	1,172
Canada—						
Bullion .. ..	147,166	122,222	80,436	119,803	141,318	373,302
Coin* .. ..	38,000	213,000	50,000	520,000	75,000	442,000
Jamaica*—						
Bullion and coin .. ..	25	—	200	n.a.	200	n.a.
Trinidad and Tobago—						
Bullion .. ..	6,000	6,600	7,349	8,718	n.a.	n.a.
Brunei—						
Bullion .. ..	n.a.	n.a.	n.a.	n.a.	52,750	38,588
Ceylon*—						
Bullion .. ..	11,000	11,000	11,000	40	100	11,000
Partly worked .. ..	23	—	—	11,200	13,500	100
Cyprus—						
Bullion .. ..	4,223	5,918	7,182	10,219	7,581	13,036
Hong Kong—						
Bullion .. ..	r 38,000	r 6,000	r 18,000	r 3,000	r 13,000	33,000
India—						
Bullion .. ..	(c) 26,231	(c) 43,973	n.a.	n.a.	n.a.	n.a.
Coin .. ..	(c) 978	(c) 467	n.a.	n.a.	n.a.	n.a.
Malaya—						
Bullion .. ..	1,974	503	376	57,377	75,436	48,918
Sabah—						
Bullion .. ..	n.a.	n.a.	n.a.	n.a.	4,610	15,528
Sarawak—						
Bullion (b) .. ..	188,000	230,000	29,000	24,000	23,000	30,000
Australia (a)—						
Bullion .. ..	161,222	141,138	135,715	155,595	149,109	129,415
Fiji*—						
Bullion .. ..	200	600	300	200	400	200
New Zealand—						
Bullion .. ..	5,915	4,816	3,598	(a) 47	(a) 1,257	} a 9,289
Beaten, rolled or drawn	148	181	6,662	n.a.	(a) 165	
Irish Republic*—						
Bullion .. ..	1,330	4,380	1,300	4,800	12,800	21,200

\*See note on page 136.

(a) Years ended June 30 of that stated.

(b) Including coin and partly worked.

(c) Years ended March 31 following that stated.

(d) Figures for years 1960 to 1963 relate to Rhodesia and Nyasaland.

## IMPORTS OF GOLD (cont.)

Fine troy ounces

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
Austria—						
Bullion .. .. .	536,000	743,000*	963,000*	211,000	683,000*	986,000*
Belgium-Luxemburg						
E.U.—						
Bullion, scrap, etc. ..	613,000*	558,000*	284,000*	293,000	418,000	1,140,000*
Coin .. .. .	312,000	240,000	260,000	309,000	270,000	610,000*
Finland—						
Bullion and scrap ..	—	<i>n.a.</i>	<i>n.a.</i>	800	<i>n.a.</i>	<i>n.a.</i>
France—						
Bullion and scrap ..	3,800,000	6,428,000	2,569,000*	10,011,000	<i>n.a.</i>	<i>n.a.</i>
Coin .. .. .	13,000	24,000	6,000	9,000	<i>n.a.</i>	<i>n.a.</i>
Beaten, rolled or drawn	6,000	6,000*	8,000	12,000	15,000	14,000
Germany (Federal)—						
Bullion .. .. .	1,945,000	2,408,000	2,898,000	2,174,000	2,694,000	3,656,900*
Coin .. .. .	80,000	171,000	253,000	83,000	99,000	251,100
Italy—						
Bullion and scrap ..	10,049,000	1,476,000*	3,782,000	2,472,000	974,000	<i>n.a.</i>
Netherlands—						
Bullion .. .. .	159,000	186,000	188,000	146,000*	197,000	235,000*
Coin .. .. .	100*	300	—	—	100	—
Norway—						
Bullion .. .. .	11,000	17,000	18,000	16,000	24,000	29,800
Sheets and rolled	1,000*	1,500*	1,500*	3,000*	5,000	4,400*
Sweden—						
Bullion* .. .. .	9,000	52,000	354,000	158,000	176,000	270,000
Switzerland—						
Bullion .. .. .	43,000	58,000	46,000	64,000	162,900	245,000
Algeria—						
Beaten, rolled or drawn	17,000*	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Egypt—						
Bullion .. .. .	1,000	1,000	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Mozambique—						
Bullion .. .. .	—	110,000	110,000	112,000*	102,000*	200*
Sudan—						
Bullion .. .. .	1,617	666	—	—	64	<i>n.a.</i>
Mexico—						
Bullion .. .. .	573,000	1,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
United States—						
Ore and base bullion ..	460,579	456,139	382,468	313,280	314,674	292,167
Refined bullion ..	8,861,716	1,159,320	3,929,718	967,339	854,211	2,613,161
Brazil—						
Bullion .. .. .	500	200	400	600	1,300	<i>n.a.</i>
Formosa—						
Bullion .. .. .	11,000	69,000	71,000*	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Lebanon—						
Bullion and scrap ..	1,139,000	1,924,000	2,450,000	1,418,000	2,272,000	<i>n.a.</i>
Philippine Republic—						
Bullion .. .. .	2,876	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Syria—						
Bullion and scrap (a) ..	18,000	643	<i>n.a.</i>	<i>n.a.</i>	11,800	<i>n.a.</i>

(a) Gross weight.

**GRAPHITE**  
PRODUCTION OF GRAPHITE

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Kenya .. ..	994	—	—	—	—	—
Tanzania (a) .. ..	24	—	—	—	—	—
Canada .. ..	—	1	—	—	—	—
Ceylon (c) .. ..	9,024	8,942	8,630	8,286	10,676	8,740
Hong Kong—						
80% fixed carbon .. ..	2,624	1,208	351	537	617	—
50% fixed carbon .. ..	1,175	458	454	259	93	—
<b>OTHER COUNTRIES</b>						
Austria (a) .. ..	86,646	79,692	87,872	98,016	100,622	84,401
Germany (Federal) .. ..	11,393	11,694	11,727	12,609	13,211	13,397
Italy .. ..	3,659	4,005	2,970	1,833	1,664	1,208
Norway .. ..	5,883	5,625	6,449	7,508	7,128	8,346
Spain .. ..	257	271	—	—	—	—
U.S.S.R. (b) .. ..	45,000	50,000	55,000	55,000	55,000	55,000
Malagasy Republic—						
Flake .. ..	6,950	7,645	} 16,203	{ 8,986	6,953	8,012
Powder .. ..	7,266	7,063			9,954	6,011
South Africa .. ..	798	860	1,168	599	930	399
South-West Africa .. ..	—	—	—	—	246	354
Mexico .. ..	33,774	17,720	28,565	29,522	29,857	39,775
Argentina .. ..	480	776	467	205	218	114
Brazil .. ..	1,279	1,428	1,486	5,929	4,598	6,851
China (b) .. ..	40,000	40,000	40,000	40,000	40,000	40,000
Formosa .. ..	490	787	(b) 800	(b) 800	n.a.	n.a.
Japan—						
Flake .. ..	3,425	2,952	2,982	2,501	2,024	n.a.
Amorphous .. ..	1,021	473	421	450	388	n.a.
Korea (South)—						
Flake .. ..	689	1,205	1,197	1,664	2,043	2,724
Amorphous .. ..	90,184	87,091	180,975	332,651	258,238	250,235
Korea (North) (b) .. ..	60,000	r 65,000	r 65,000	r 70,000	70,000	70,000
<b>TOTAL*</b> .. ..	<b>420,000</b>	<b>400,000</b>	<b>530,000</b>	<b>700,000</b>	<b>625,000</b>	<b>615,000</b>

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

(a) Crude.

(b) United States Bureau of Mines' estimate.

(c) Exports.

## EXPORTS OF GRAPHITE

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—						
Crucibles .. .. .	2,815	3,272	2,964	2,644	3,527	3,553
Kenya .. .. .	601	131	81	—	—	—
Tanzania (crude) .. .. .	25	—	—	—	—	—
Ceylon .. .. .	9,024	8,942	8,630	8,286	10,676	8,740
Hong Kong .. .. .	<i>r</i> 2,641	<i>r</i> 1,122	<i>r</i> 461	<i>r</i> 100	460	352
India ( <i>b</i> ) .. .. .	18	16	19	14	14	8
Australia ( <i>a</i> ) .. .. .	16	7	3	10	3	20
OTHER COUNTRIES						
Austria .. .. .	18,120	19,701	17,938	19,212	18,850	20,852
Belgium-Luxemburg						
E.U. .. .. .	25	96	41	13	44	8
Denmark .. .. .	2	8	4	3	10	13
France .. .. .	1,138	1,146	1,166	1,738	2,250	1,871
Germany (Federal) .. .. .	5,872	5,345	6,531	6,454	6,589	7,636
Italy .. .. .	1,565	1,668	1,588	1,492	1,272	1,654
Netherlands .. .. .	498	86	153	3	81	27
Norway .. .. .	5,329	6,080	6,550	<i>r</i> 7,138	7,389	8,211
Sweden .. .. .	—	49	26	35	8	24
U.S.S.R. .. .. .	3,700	4,400	5,100	6,300	7,400	6,000
Algeria .. .. .	104	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Malagasy Republic .. .. .	15,574	14,654	16,203	15,547	13,833	17,661
Morocco .. .. .	30	19	—	—	—	—
South Africa .. .. .	25	37	18	—	38	65
Mexico .. .. .	34,385	17,359	29,741	29,418	31,194	36,871
United States .. .. .	1,657	1,391	1,035	803	1,753	2,854
Formosa .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	20	261	192
Japan .. .. .	616	619	3,248	414	345	689
Korea (South) .. .. .	54,558	56,543	46,631	46,667	42,045	48,102

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

## IMPORTS OF GRAPHITE

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom—						
Natural .. .. .	9,509	9,380	8,732	7,963	9,137	10,350
Artificial .. .. .	280	382	262	205	531	2,640
Mauritius—						
Crucibles .. .. .	2	1	—	—	—	—
Rhodesia (d) .. .. .	26	52	47	40	n.a.	n.a.
Canada—						
Unground .. .. .	(£27,836)	(£16,714)	(£19,525)	(£28,805)	n.a.	n.a.
Ground, including manufactures .. .. .	(£332,999)	(£332,955)	(£455,912)	(£779,409)	n.a.	n.a.
Crucibles .. .. .	(£86,819)	(£76,008)	(£85,142)	(£94,108)	(£81,196)	(£92,367)
Hong Kong .. .. .	r 532	r 1,492	r (c) 954	r 110	417	60
India (a)—						
Graphite .. .. .	1,777	1,415	2,285	1,051	2,183	13,359
Crucibles .. .. .	(£212,812)	(£235,554)	(£185,635)	(£171,540)	(£221,320)	(£257,062)
Malaya .. .. .	129	150	198	212	260	200
Pakistan—						
Graphite .. .. .	771	300	391	441	474	n.a.
Crucibles .. .. .	63	n.a.	n.a.	n.a.	n.a.	n.a.
Australia (b) .. .. .	987	1,039	836	1,223	1,268	1,543
New Zealand .. .. .	54	108	34	(b) 41	(b) 27	n.a.
<b>OTHER COUNTRIES</b>						
Austria—						
Graphite .. .. .	212	164	216	141	219	293
Crucibles, etc. .. .. .	193	195	167	160	174	227
Belgium-Luxemburg						
E.U. .. .. .	1,338	1,236	906	870	997	887
Denmark .. .. .	502	401	574	364	405	361
Finland .. .. .	474	220	322	326	242	424
France .. .. .	5,065	5,137	4,778	5,014	4,375	4,928
Germany (Federal) .. .. .	16,950	16,340	14,227	13,109	15,955	17,449
Germany (East) .. .. .	2,878	4,885	4,511	5,399	5,482	5,447
Greece .. .. .	249	163	240	257	270	363
Iceland .. .. .	10	15	11	1	—	—
Italy .. .. .	7,082	8,923	8,768	10,203	9,181	11,275
Netherlands .. .. .	854	399	390	386	358	337
Norway .. .. .	300	602	413	245	244	280
Poland .. .. .	7,044	8,025	n.a.	9,781	10,352	n.a.
Portugal .. .. .	91	118	112	104	109	130
Sweden .. .. .	844	854	819	909	897	924
Switzerland .. .. .	672	684	646	658	552	547
Yugoslavia .. .. .	1,170	1,154	1,208	1,102	1,043	1,032
Algeria .. .. .	22	n.a.	n.a.	n.a.	n.a.	n.a.
Egypt .. .. .	315	112	328	n.a.	n.a.	n.a.
Morocco .. .. .	29	20	19	21	14	18
Mozambique .. .. .	3	1	4	3	33	6
South Africa .. .. .	346	281	554	771	540	n.a.
Sudan .. .. .	3	3	—	10	—	—
Tunisia .. .. .	2	4	—	—	—	—
Mexico—						
Graphite .. .. .	247	146	82	60	65	n.a.
Crucibles .. .. .	304	264	215	229	299	n.a.

(a) Years ended March 31 following that stated.

(c) Excess of re-exports.

(b) Years ended June 30 of that stated.

(d) Figures for years 1960 to 1963 relate to Rhodesia and Nyasaland.

## IMPORTS OF GRAPHITE (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES (cont.)						
United States (a) ..	42,981	26,398	31,151	46,263	42,093	51,798
Argentina .. ..	71	124	119	207	149	333
Brazil—						
Graphite .. ..	261	197	189	3	133	177
Crucibles .. ..	343	323	372	456	401	218
Chile .. ..	67	128	59	145	n.a.	n.a.
Colombia (b) .. ..	192	76	39	45	39	54
Peru (b) .. ..	64	59	50	37	87	107
Uruguay .. ..	22	n.a.	n.a.	n.a.	n.a.	n.a.
Venezuela .. ..	98	58	143	88	184	295
Burma .. ..	452	54	75	n.a.	96	472
Formosa .. ..	1,021	980	1,545	1,823	1,522	2,846
Indonesia (b) .. ..	279	505	n.a.	n.a.	n.a.	n.a.
Israel—						
Crucibles .. ..	24	n.a.	25	n.a.	n.a.	n.a.
Lebanon (b) .. ..	35	31	19	37	538	n.a.
Japan .. ..	61,974	67,302	65,256	60,330	55,773	51,437
Philippine Republic .. ..	121	140	270	74	107	n.a.
Thailand .. ..	790	611	452	490	482	467
Turkey—						
Graphite .. ..	109	79	78	105	137	138
Crucibles, etc. .. ..	103	44	106	140	118	165

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

Year	Long tons
1960 .. ..	166
1961 .. ..	163
1962 .. ..	4,142
1963 .. ..	329
1964 .. ..	50
1965 .. ..	37

(b) Including artificial graphite.

**GYPSUM**  
PRODUCTION OF GYPSUM

Long tons.

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom—						
Gypsum .. .. .	1,732,800	1,888,700	1,966,600	1,990,800	2,467,100	2,596,200
Anhydrite .. .. .	1,862,200	1,842,200	2,032,300	2,079,000	2,048,000	1,789,000
Kenya .. .. .	16,863	19,768	26,420	20,401	27,552	33,929
Tanzania .. .. .	4,564	1,306	1,965	1,847	2,910	4,488
Canada (a) .. .. .	4,547,466	4,517,641	r 4,820,113	5,430,622	f 5,679,183	f 5,545,500
Jamaica .. .. .	245,832	223,045	225,307	228,303	192,128	208,492
Trinidad .. .. .	6,467	2,804	3,587	2,958	2,260	1,836
Cyprus (b) .. .. .	200,000	130,000	140,000	120,000	70,000	80,000
India .. .. .	981,690	851,911	r 1,106,689	1,172,103	868,555	1,130,021
Pakistan (g) .. .. .	89,541	100,478	179,305	194,578	192,283	147,068
Australia .. .. .	580,878	609,907	630,910	725,444	795,003	837,833
Irish Republic .. .. .	178,200	164,426	173,593	200,757	228,036	n.a.
<b>OTHER COUNTRIES</b>						
Austria—						
Gypsum .. .. .	440,656	468,989	483,704	421,546	376,441	459,911
Anhydrite .. .. .	211,455	200,372	189,631	153,845	182,657	148,250
Bulgaria .. .. .	120,000	133,000	115,000	100,000	(e) 110,000	110,000
Czechoslovakia .. .. .	325,000	350,000	367,000	297,000	345,000	366,000
France (a) .. .. .	3,716,979	3,774,506	3,933,861	4,141,636	4,834,477	4,933,544
Germany (Federal)—						
Gypsum (c) .. .. .	1,029,277	1,173,689	1,095,387	1,120,340	1,258,200	1,279,000
Anhydrite .. .. .	18,292	15,218	96,215	57,414	99,819	140,643
Germany (East) (d) .. .. .	253,000	250,000	266,000	250,000	261,000	254,000
Greece .. .. .	83,851	88,270	92,795	(e) 95,000	(e) 80,000	(e) 100,000
Italy (including alabaster) .. .. .	1,874,671	2,050,721	r 2,123,039	2,360,766	2,509,342	n.a.
Luxemburg .. .. .	8,320	9,278	8,030	6,639	7,045	7,565
Poland .. .. .	(e) 512,000	461,000	540,000	576,000	(e) 585,000	(e) 600,000
Portugal .. .. .	60,664	70,813	71,118	59,141	63,953	n.a.
Spain—						
Gypsum (b) .. .. .	2,413,000	2,966,000	3,455,000	4,475,000	3,307,000	n.a.
Anhydrite (b) .. .. .	35,000	38,000	46,000	50,000	n.a.	n.a.
Switzerland (e) .. .. .	100,000	100,000	100,000	100,000	100,000	100,000
U.S.S.R. .. .. .	4,549,000	4,386,000	4,307,000	4,172,000	4,137,000	e 4,200,000
Yugoslavia .. .. .	122,000	96,000	(e) 98,000	139,418	152,168	137,900
Algeria .. .. .	173,774	n.a.	n.a.	n.a.	n.a.	n.a.
Angola .. .. .	(e) 12,000	r 11,316	16,047	13,983	(e) 14,000	(e) 14,000
Egypt .. .. .	394,000	455,048	460,185	446,552	332,120	225,316
Libya .. .. .	—	—	—	—	400	1,836
Niger .. .. .	—	—	—	—	—	1,500
South Africa .. .. .	192,692	170,624	188,970	184,504	236,292	299,141
Sudan .. .. .	—	1,561	7,384	4,450	n.a.	n.a.
Tunisia .. .. .	13,570	16,000	16,000	18,000	n.a.	n.a.
Dominican Republic .. .. .	319,572	402,309	432,466	34,760	107,962	88,085
Guatemala .. .. .	14,000	12,000	(e) 10,000	14,560	(e) 15,000	(e) 15,000
Mexico .. .. .	777,307	765,600	782,000	1,080,000	1,146,654	1,064,660
Nicaragua .. .. .	—	—	3,200	2,500	5,500	5,000
United States .. .. .	8,772,000	8,482,000	8,901,000	9,275,000	9,539,000	8,960,000
Argentina .. .. .	142,691	r 188,972	(a) 211,594	(a) 139,334	(a) 148,125	(a) 201,046
Brazil .. .. .	101,473	153,571	106,372	118,021	128,355	71,392
Chile .. .. .	40,000	79,000	(e) 113,000	104,000	117,278	105,466
Colombia .. .. .	70,000	75,000	82,000	100,000	105,800	110,000
Paraguay .. .. .	—	—	—	—	770	2,200
Peru .. .. .	62,000	r 62,700	r 60,200	51,726	64,655	90,686
Venezuela .. .. .	(e) 57,000	(e) 59,000	(e) 62,000	63,449	(e) 65,000	(e) 75,000

(a) Including anhydrite.

(b) Estimated.

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

(d) Crude estimated on production of calcined

(e) United States Bureau of Mines' estimate.

(f) Producers' shipments.

(g) West Pakistan.

## PRODUCTION OF GYPSUM (cont.)

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b> (cont.)						
Burma .. .. .	1,035	840	(a) 1,000	(a) 1,000	(a) 1,000	(a) 1,000
Formosa .. .. .	10,461	11,746	16,028	26,168	16,824	27,320
Israel (a) .. .. .	60,000	80,000	80,000	100,000	100,000	100,000
Japan .. .. .	722,949	713,106	787,517	770,306	738,914	652,000
Jordan .. .. .	—	7,000	9,000	(b) 8,600	—	—
Philippine Republic .. .. .	8,934	8,271	14,225	30,209	40,311	27,054
Saudi Arabia .. .. .	—	—	(b) 10,500	(b) 35,000	(b) 30,000	22,242
Syria .. .. .	n.a.	8,000	15,000	(b) 15,000	20,000	(b) 15,000
Thailand .. .. .	13,000	11,850	21,000	23,512	41,238	11,063
Turkey (a) .. .. .	60,000	60,000	140,000	180,000	200,000	220,000
<b>TOTAL*</b> .. .. .	<b>38,000,000</b>	<b>39,000,000</b>	<b>41,000,000</b>	<b>44,000,000</b>	<b>45,000,000</b>	<b>44,000,000</b>

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

(a) Estimated.

(b) United States Bureau of Mines' estimate.



EXPORTS OF GYPSUM

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—						
Calcined .. .. .	11,147	12,762	7,516	6,723	7,602	10,570
Tanzania .. .. .	4,350	280	2,165	1,864	2,910	4,488
Canada—						
Crude .. .. .	3,815,775	3,410,129	3,716,962	4,199,212	4,515,404	4,238,070
Calcined .. .. .	29	—	—	—	—	—
Jamaica .. .. .	207,682	82,886	256,786	134,492	137,463	192,738
Cyprus—						
Crude .. .. .	107,560	24,437	35,099	54,279	42,523	41,042
Calcined .. .. .	2,144	1,830	1,919	1,616	1,670	1,418
India (b) .. .. .	—	—	—	—	5	1
Malaya—						
Crude and calcined ..	n.a.	n.a.	489	351	195	590
Australia (a)—						
Crude .. .. .	84,110	89,960	94,008	157,375	181,021	166,557
Calcined .. .. .	2,337	3,388	4,008	351	269	543
Irish Republic—						
Crude .. .. .	87,056	82,131	85,262	94,399	98,072	97,463
OTHER COUNTRIES						
Austria—						
Crude .. .. .	27,169	32,552	38,399	48,157	56,078	57,139
Calcined .. .. .	888	1,266	838	745	998	1,177
Belgium-Luxemburg						
E.U.—						
Crude .. .. .	116	563	238	617	338	722
Calcined .. .. .	12,835	13,095	13,891	13,647	15,261	15,482
Denmark—						
Crude and calcined ..	30	19	27	20	7	11
France—						
Crude .. .. .	493,079	550,593	553,907	513,583	636,357	649,802
Calcined .. .. .	93,440	109,120	119,517	124,327	118,063	124,348
Germany (Federal)—						
Crude and calcined ..	197,395	175,975	184,008	187,466	262,879	246,017
Germany (East)—						
Calcined .. .. .	34,961	37,210	35,251	36,460	49,943	59,771
Italy—						
Crude .. .. .	1,325	889	422	1,497	13,157	14,841
Calcined .. .. .	8,084	6,929	6,649	7,722		
Netherlands—						
Calcined .. .. .	257	332	148	167	155	167
Portugal—						
Crude .. .. .	636	369	146	194	153	130
Calcined .. .. .	166	57	78	106	107	70
Spain—						
Crude and calcined ..	n.a.	4,552	4,694	4,654	4,433	6,523
Sweden—						
Calcined .. .. .	98	145	109	215	8	—
Switzerland—						
Ground and calcined ..	157	104	62	75	108	68
Yugoslavia—						
Crude .. .. .	88	—	—	—	15	49
Ground and calcined ..	1,178	216	—	—		
Algeria .. .. .	1	n.a.	n.a.	n.a.	n.a.	n.a.
Angola—						
Crude .. .. .	8,473	8,286	6,651	2,968	5,592	5,478
Egypt—						
Crude and ground ..	23,456	42,213	53,769	51,179	77,752	37,742
Calcined .. .. .	16,713	11,290				

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

## EXPORTS OF GYPSUM (cont.)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Morocco—						
Crude .. .. .	14,661	30,490	22,098	16,581	13,178	34,356
Calcined .. ..	61	668	922	1,870	11,009	10,885
South Africa .. ..	30,684	22,779	16,429	15,213	16,575	19,507
Dominican Republic ..	332,840	374,802	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Mexico—						
Crude .. .. .	656,530	700,667	628,768	1,043,436	1,118,913	1,058,873
Calcined .. ..	28	5	6	6	13	<i>n.a.</i>
United States—						
Crude and calcined ..	15,182	17,744	17,531	15,000	18,468	25,340
Argentina .. .. .	3,059	945	3,899	8,237	9,122	13,922
Bolivia .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	687	467
Venezuela .. .. .	—	—	1	5,571	3,423	1,183
Iran (a)—						
Crude .. .. .	579	486	907	} 4,002	2,519	} 46
Calcined .. .. .	3,826	2,203	3,187			
Japan—						
Crude .. .. .	355	87	4,704	6,978	6,526	6,439
Calcined .. .. .	432	272	589	405	365	780
Syria .. .. .	<i>n.a.</i>	5,764	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	8,319

(a) Years ended March 20 following that stated.

IMPORTS OF GYPSUM

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—						
Crude, including						
alabaster .. .. .	141,059	146,319	131,579	} 139,864	154,481	156,212
Calcined .. .. .	726	1,072	1,251			
Ghana .. .. .	<i>n.a.</i>	—	—	3	25	4,577
Malawi .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	675	<i>n.a.</i>
Nigeria—						
Crude .. .. .	13,028	21,384	33,539	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Rhodesia (c)—						
Crude and calcined .. .. .	28,166	23,469	19,044	15,130	9,252	7,707
Zambia .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	7,617	9,250
Bermuda—						
Calcined .. .. .	593	517	396	828	601	306
Canada—						
Crude and ground .. .. .	53,581	59,000	62,453	66,632	72,309	67,351
Calcined .. .. .	11,155	8,545	6,296	7,484	3,712	4,216
Hong Kong .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	9,870	9,832
India (a)—						
Crude .. .. .	825	287	32,418	41,627	98,872	} 15,434
Calcined .. .. .	175	115	10	10	14	
Malaya—						
Crude and calcined .. .. .	<i>n.a.</i>	<i>n.a.</i>	23,600	26,752	53,834	32,697
New Zealand—						
Crude .. .. .	65,363	76,524	85,800	(b) 89,014	(b) 87,234	(b) 104,400
Calcined .. .. .	14,708	16,566	4,103	(b) 1,696	(b) 2,362	(b) 1,850
OTHER COUNTRIES						
Austria—						
Crude .. .. .	11,772	9,234	14,301	179	3,876	7,298
Calcined .. .. .	2,187	3,523	3,456	4,409	3,736	42
Belgium-Luxemburg						
E.U.—						
Crude .. .. .	270,638	303,534	305,245	305,399	372,748	375,278
Calcined .. .. .	36,759	40,683	43,649	45,797	50,469	58,151
Denmark—						
Crude .. .. .	48,137	56,765	59,038	50,029	77,806	92,621
Calcined .. .. .	5,710	5,797	6,289	6,332	6,739	6,423
Finland—						
Crude .. .. .	58,914	68,664	59,135	79,206	76,309	85,367
Calcined .. .. .	35,887	37,494	36,702	41,658	43,947	45,463
France—						
Crude .. .. .	17,106	15,503	18,006	13,478	17,479	17,644
Calcined .. .. .	3,194	2,511	2,490	3,383	2,595	4,115
Germany (Federal)—						
Crude and calcined .. .. .	53,475	58,563	64,668	72,813	78,809	76,482
Greece—						
Calcined .. .. .	188	129	174	207	197	318
Iceland .. .. .	3,465	4,549	900	4,529	9,625	4,105
Italy—						
Crude .. .. .	110	46	34	66	} 606	{ 635
Calcined .. .. .	338	544	362	481		
Netherlands—						
Crude .. .. .	92,316	84,084	89,903	99,870	185,512	140,610
Calcined .. .. .	48,114	45,705	48,213	50,983	57,468	59,993
Norway—						
Crude .. .. .	42,970	53,584	49,252	52,056	41,608	54,657
Calcined .. .. .	4,382	4,000	4,461	4,408	4,926	5,142
Portugal—						
Crude .. .. .	10,875	10,146	12,598	11,161	15,380	14,009
Calcined .. .. .	17	14	5	9	17	10
Sweden—						
Crude .. .. .	180,185	184,334	242,181	204,283	307,065	368,307
Calcined .. .. .	20,519	21,716	23,054	23,774	23,532	23,654

(a) Years ended March 31 following that stated.

(b) Year ended June 30 of that stated.

(c) Figures for years 1960 to 1963 relate to Rhodesia and Nyasaland.

## IMPORTS OF GYPSUM (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES						
(cont.)						
Switzerland—						
Crude .. .. .	9,263	14,954	16,628	21,424	27,740	33,408
Ground and calcined ..	7,168	8,153	5,593	4,441	3,980	5,533
Algeria—						
Crude .. .. .	2,264	n.a.	n.a.	n.a.	n.a.	n.a.
Calcined .. .. .	11,167	n.a.	n.a.	n.a.	n.a.	n.a.
Angola—						
Crude and calcined ..	690	258	185	87	91	131
Egypt—						
Calcined .. .. .	8	—	—	n.a.	n.a.	n.a.
Malagasy Republic .. ..	83	1,634	1,125	2,159	1,228	10
Morocco .. .. .	63	12	48	—	—	—
Mozambique—						
Crude .. .. .	12,508	8,729	6,950	5,609	4,502	5,694
Calcined .. .. .	134	182	128	201	94	83
South Africa—						
Crude and calcined ..	2,580	2,040	2,397	2,562	3,167	n.a.
Sudan .. .. .	717	194	201	395	260	193
Tunisia—						
Crude .. .. .	1	—	—	—	—	—
Calcined .. .. .	228	272	290	207	541	300
Costa Rica .. .. .	121	116	155	160	460	3,910
Honduras—						
Calcined .. .. .	10	58	2	16	16	19
Mexico—						
Crude .. .. .	148	1	88	75	43	n.a.
Panama Republic .. .. .	3,450	6,053	n.a.	n.a.	n.a.	n.a.
Salvador—						
Crude .. .. .	1,429	1,445	1,382	998	984	2,743
Calcined .. .. .	337	41	35	49	46	61
United States—						
Crude .. .. .	4,733,236	4,434,876	4,840,068	4,902,052	5,587,234	5,277,909
Ground and calcined ..	1,035	1,006	1,589	202	1,218	1,366
Argentina—						
Crude .. .. .	24	146	22	47	27	28
Brazil—						
Crude .. .. .	22	23	31	39	916	841
Colombia—						
Crude .. .. .	24,743	2,491	3,467	1	7,876	10,015
Calcined .. .. .	616	504	586	463	596	196
Peru—						
Crude and calcined ..	76	168	69	23	148	104
Uruguay—						
Crude and ground ..	9,283	n.a.	n.a.	n.a.	n.a.	n.a.
Venezuela .. .. .	75	85	37	57	86	81
Formosa .. .. .	24,325	24,822	35,423	22,263	58,669	44,488
Indonesia—						
Crude .. .. .	9,843	9,897	n.a.	n.a.	n.a.	n.a.
Calcined .. .. .	309	205	n.a.	n.a.	n.a.	n.a.
Iran (a) .. .. .	n.a.	103	40	65	144	220
Israel—						
Crude .. .. .	79	10	—	—	—	—
Calcined .. .. .	7	120	46	70	49	111
Japan .. .. .	75,620	53,745	78,411	106,601	89,551	49,537
Korea (South) .. .. .	18,035	20,862	21,744	29,499	45,472	40,951
Lebanon .. .. .	45,144	18,197	30,988	37,468	34,283	n.a.
Philippine Republic—						
Crude .. .. .	n.a.	35,031	39,225	19,790	27,145	n.a.
Calcined .. .. .	611					
Thailand—						
Crude .. .. .	163	196	30	89	102	157
Vietnam (South) .. .. .	633	780	n.a.	n.a.	n.a.	n.a.

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

**IODINE**  
**PRODUCTION OF IODINE**

Lb. avdp.

Producing Country	1960	1961	1962	1963	1964	1965
Italy .. .. .	27,712	27,661	23,953	7,209	—	—
Chile .. .. .	r 4,086,005	r 5,404,881	r 4,826,785	r 4,757,112	4,763,265	5,027,000
Indonesia .. .. .	7,923	6,931	n.a.	9,642	8,900	n.a.
Japan .. .. .	2,094,000	2,469,152	3,106,000	3,117,870	4,464,000	n.a.

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

**EXPORTS OF IODINE**

Lb. avdp.

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom ..	127,694	47,634	45,780	36,053	54,215	54,718
<b>OTHER COUNTRIES</b>						
Belgium-Luxemburg						
E.U.—						
Crude .. .. .	2,200	19,600	700	16,535	n.a.	n.a.
Resublimed .. .. .	35,500	51,100	65,900	65,036	n.a.	n.a.
France—						
Resublimed .. .. .	40,100	9,900	7,000	15,400	16,400	24,300
Germany (Federal) ..	78,500	57,100	43,700	38,140	25,353	100,972
Netherlands—						
Crude .. .. .	—	n.a.	7,000	2,205	n.a.	n.a.
Resublimed .. .. .	35,000	18,000	4,000	4,409	n.a.	n.a.
Chile .. .. .	3,800,758	5,021,193	5,021,741	r 3,875,649	4,211,000	3,860,000
Japan—						
Crude .. .. .	1,285,883	1,538,002	} 1,925,766	2,486,664	2,930,236	3,077,390
Resublimed .. .. .	50,138	31,700				

IMPORTS OF IODINE

Lb. avdp.

Importing Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom ..	1,206,763	987,422	1,167,163	813,775	939,502	1,533,350
Canada—						
Crude .. .. .	83,035	243,935	150,558	240,292	178,800	228,900
India (a) .. .. .	175,409	163,925	224,673	143,029	220,498	349,413
Australia (b)—						
Crude .. .. .	11,400	10,000	6,700	4,900	200	7,728
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Crude .. .. .	144,600	147,300	179,700	257,941	<i>n.a.</i>	<i>n.a.</i>
Resublimed .. .. .	5,100	400	700	1,323	<i>n.a.</i>	<i>n.a.</i>
Denmark .. .. .	14,800	2,000	7,000	2,205	4,409	22,000
France—						
Crude .. .. .	361,800	325,800	313,000	354,944	630,522	881,849
Germany (Federal) ..	734,100	618,400	701,500	690,047	644,411	953,279
Greece .. .. .	3,607	7,103	7,663	4,850	9,004	7,822
Italy—						
Crude .. .. .	26,729	53,572	106,924	79,587	284,617	91,500
Resublimed .. .. .	3,336	22,267	45,636	64,816	2,866	900
Netherlands .. .. .	29,120	<i>n.a.</i>	13,440	15,432	<i>n.a.</i>	<i>n.a.</i>
Portugal—						
Crude .. .. .	2,000	3,500	4,900	4,630	—	9,000
Resublimed .. .. .	4,000	2,600	1,500	3,968	2,866	2,000
Spain—						
Crude .. .. .	11,035	12,857	41,910	31,526	52,933	37,479
Resublimed .. .. .	—	664	1,764	5,320	79	59
Sweden .. .. .	11,000	13,000	7,000	11,000	4,000	9,000
Morocco—						
Resublimed .. .. .	622	1,393	648	712	847	53
Costa Rica .. .. .	434	333	791	351	<i>n.a.</i>	<i>n.a.</i>
Mexico .. .. .	18,647	15,130	21,905	25,554	81,847	<i>n.a.</i>
United States—						
Crude .. .. .	1,893,958	3,016,641	3,025,711	3,336,000	2,592,000	2,847,133
Resublimed .. .. .	110	220	9,050	3,000	3,000	2,000
Argentina—						
Crude .. .. .	17,688	59,470	48,596	33,116	113,016	90,423
Resublimed .. .. .	23,087	16,431	12,337	14,826	12,547	15,503
Brazil .. .. .	24,630	23,041	35,784	23,343	24,959	36,100
Colombia .. .. .	6,744	4,048	4,786	6,788	4,676	2,599
Peru—						
Crude .. .. .	1,246	1,552	1,387	115	1,618	1,570
Resublimed .. .. .	1,385	2,363	1,204	1,556	2,928	2,100
Venezuela .. .. .	2,357	6,028	6,065	9,841	7,328	11,391
Turkey .. .. .	4,336	4,160	6,206	6,640	5,844	9,504

(a) Years ended March 31 following that stated.

(b) Years ended June 30 of that stated.

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

Long tons

Producing Country	ORE										Estimated Iron Content			
	1960	1961	1962	1963	1964	1965	1966	1961	1962	1963	1964	1965		
<b>COMMONWEALTH COUNTRIES</b>														
United Kingdom (a)	17,087,400	16,518,000	15,277,100	14,912,000	16,325,700	15,414,700	4,614,000	4,460,000	4,125,000	4,026,000	4,408,000	4,162,000		
Rhodesia	155,994	381,868	609,645	645,025	810,081	n.a.	92,000	125,000	381,000	381,000	1,478,000	n.a.		
Sierra Leone (f)	1,540,445	1,757,853	1,983,025	1,953,651	1,980,535	2,296,983	995,000	1,153,000	1,281,000	1,260,000	1,276,000	1,475,000		
Swaziland	—	—	—	—	59,282	1,003,648	—	—	—	—	37,000	632,000		
Canada	19,241,812	18,177,681	24,428,282	26,913,972	34,219,484	35,526,878	10,583,000	9,998,000	13,436,000	14,803,000	18,821,000	19,540,000		
Hong Kong	117,043	117,364	111,537	114,375	114,374	131,955	66,000	66,000	65,000	65,000	9,190,000	10,150,000		
India	10,514,563	12,115,393	13,128,006	14,758,570	15,069,580	16,634,950	6,410,000	7,390,000	8,100,000	9,000,000	9,190,000	10,150,000		
Goa	5,764,000	6,294,000	6,033,000	5,422,000	5,956,000	6,387,000	3,343,000	3,651,000	3,499,000	3,145,000	3,454,000	3,704,000		
Malaya	5,640,258	6,733,520	6,507,502	7,264,543	6,465,695	6,872,711	3,159,000	3,771,000	3,644,000	4,068,000	5,621,000	3,849,000		
Pakistan (g)	5,421	4,004	4,824	67	4,824	23,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.		
Australia	4,355,464	5,342,041	4,843,494	5,514,562	5,668,518	6,596,442	2,814,000	3,434,000	3,119,000	3,550,000	3,655,000	4,269,000		
Fiji	24,000	10,280	6,229	1,062	—	3,000	n.a.	n.a.	n.a.	n.a.	—	n.a.		
New Zealand (b)	1,999	1,745	1,501	3,074	2,550	2,236	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.		
<b>TOTAL</b>	<b>64,448,000</b>	<b>67,454,000</b>	<b>77,928,000</b>	<b>77,500,000</b>	<b>86,677,000</b>	<b>92,000,000</b>								
<b>OTHER COUNTRIES</b>														
Albania	251,000	352,000	420,000	(h) 255,000	(h) 350,000	(h) 360,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.		
Austria	3,485,630	3,634,379	3,692,152	3,675,420	3,506,826	3,480,400	1,850,000	1,136,000	1,145,000	1,161,000	1,110,000	1,093,000		
Belgium	158,300	113,400	79,100	94,000	60,000	90,000	55,000	40,000	290,000	33,000	21,000	32,000		
Bulgaria	405,000	411,000	625,000	645,000	704,000	1,773,000	250,000	255,000	380,000	400,000	440,000	1,100,000		
Czechoslovakia	3,071,000	3,242,000	3,422,000	3,357,000	2,801,000	2,531,000	920,000	970,000	1,030,000	1,010,000	840,000	760,000		
Finland (c)	269,000	275,782	299,034	357,942	469,000	670,000	175,000	179,000	194,000	233,000	305,000	440,000		
France	65,906,692	65,554,359	65,254,080	56,977,556	59,975,576	58,592,000	19,768,000	19,469,000	19,369,000	17,124,000	18,148,000	17,812,000		
Germany—														
Federal Republic (e)	13,328,555	12,878,578	11,250,510	8,454,152	8,559,334	7,827,626	4,486,000	4,353,000	3,838,000	3,074,000	2,752,000	2,512,000		
Eastern	1,616,000	1,617,000	1,616,000	1,635,000	1,608,000	1,604,000	480,000	485,000	485,000	491,000	482,000	481,000		
Greece	292,496	287,182	208,442	34,479	59,000	300,000	150,000	147,000	107,000	18,000	30,000	150,000		
Hungary	507,932	595,035	670,738	721,044	762,460	750,000	134,000	157,000	174,000	175,000	185,000	184,000		
Italy	1,241,861	1,215,995	1,132,671	1,007,937	899,670	772,152	609,000	613,000	573,000	510,000	450,000	390,000		
Luxemburg	8,667,107	7,340,152	6,404,404	6,574,181	6,215,706	6,245,706	1,965,000	2,000,000	1,741,000	1,868,000	1,832,000	1,760,000		
Norway	1,631,243	1,643,913	1,906,913	1,966,992	2,176,879	2,425,555	1,039,000	1,044,000	1,218,000	1,268,000	1,404,000	1,572,000		
Poland	2,148,000	2,348,000	2,398,000	2,638,000	2,638,000	2,816,000	730,000	800,000	820,000	870,000	900,000	960,000		
Portugal	297,000	245,000	258,000	258,000	212,000	181,000	149,000	123,000	129,000	129,000	106,000	90,000		
Roumania	1,437,015	1,709,659	1,714,107	2,250,000	1,901,000	2,440,000	650,000	770,000	770,000	1,010,000	850,000	1,100,000		
Spain	5,548,476	5,967,595	5,026,864	5,111,433	5,026,864	5,696,767	2,753,000	2,812,000	2,812,000	2,518,000	2,489,000	2,820,000		
Sweden	21,347,054	23,220,408	22,170,312	23,263,601	26,198,490	28,890,000	12,780,000	14,046,000	13,509,000	14,208,000	16,036,000	18,000,000		
Switzerland (d)	123,000	85,000	103,000	94,000	90,000	111,000	50,000	30,000	40,000	40,000	40,000	40,000		
U.S.S.R.	104,858,000	115,775,000	126,079,000	135,304,000	143,285,000	151,000,000	62,900,000	69,500,000	75,600,000	81,200,000	86,000,000	91,000,000		

\* For detailed figures see page 155.  
 (a) In addition bog ore and iron ore (not used for smelting) are produced.  
 (b) Used mainly or entirely for purposes other than iron production.  
 (c) Concentrates.  
 (d) Estimated.  
 (e) Marketable production.  
 (f) Exports.  
 (g) West Pakistan.  
 (h) United States Bureau of Mines' estimate.

PRODUCTION OF IRON ORE (cont.)

Long tons

Producing Country	ORE										Estimated Iron Content				
	1960	1961	1962	1963	1964	1965	1960	1961	1962	1963	1964	1965			
<b>OTHER COUNTRIES</b>															
Yugoslavia	2,165,000	2,150,000	2,155,000	2,261,000	2,271,000	2,464,000	970,000	970,000	970,000	1,000,000	1,000,000	1,100,000			
Algeria	3,384,027	2,821,943	2,029,000	1,945,000	2,696,000	3,083,000	1,805,000	1,524,000	1,092,000	1,050,000	1,460,000	1,620,000			
Angola	648,547	799,311	2,029,000	626,620	892,448	3,083,321	420,000	520,000	480,000	410,000	580,000	570,000			
Egypt	237,000	415,478	453,711	481,176	440,150	499,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.			
Guinea	764,000	533,000	689,000	652,000	755,000	590,000	382,000	267,000	345,000	330,000	380,000	300,000			
Liberia (b)	2,915,686	2,791,829	3,741,059	6,355,687	12,029,388	15,086,547	1,983,000	1,898,000	2,544,000	4,322,000	8,180,000	10,259,000			
Mauritania	295,000	984,000	1,651,000	1,018,249	5,000,000	5,900,000	194,000	194,000	646,000	1,083,000	3,280,000	4,000,000			
Morocco	1,852,116	1,438,829	1,130,709	873,611	873,611	930,007	780,000	815,000	664,000	598,000	518,000	558,000			
South Africa (h)	3,022,386	4,108,125	4,539,476	4,910,589	5,599,642	6,616,761	1,810,000	2,460,000	2,720,000	2,950,000	3,360,000	3,970,000			
Sudan	2,500	4,800	4,400	14,792	9,331	32,316	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.			
Tunisia	1,017,069	865,000	749,000	851,000	925,000	1,099,000	554,000	470,000	400,000	460,000	500,000	590,000			
Cuba	15,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.			
Dominican Republic	120,806	4,000	5,000	6,000	7,000	8,000	80,000	n.a.	n.a.	n.a.	n.a.	n.a.			
Guatemala (f)	860,000	1,130,000	2,220,000	2,290,000	2,800,000	2,500,000	513,122	676,150	1,332,243	1,374,820	1,370,475	1,567,581			
Mexico	89,290,000	71,425,000	71,959,000	73,737,000	84,859,000	88,000,000	48,000,000	39,000,000	39,000,000	41,000,000	48,000,000	50,000,000			
United States (c)	132,963	136,424	119,153	92,916	93,008	111,109	57,000	59,000	60,000	46,000	47,000	56,000			
Argentina	9,197,524	10,059,063	10,567,268	11,041,748	12,120,000	17,873,111	6,440,000	7,040,000	7,400,000	7,730,000	8,480,000	12,510,000			
Brazil	5,945,899	6,876,619	7,962,415	8,375,886	9,731,793	11,953,264	3,744,203	4,355,692	5,078,125	5,394,219	6,260,747	7,698,000			
Chile	645,000	665,716	670,000	684,000	700,000	694,960	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.			
Colombia	6,879,486	8,598,746	5,854,981	8,267,202	6,500,000	7,197,000	3,885,000	4,648,000	3,391,000	4,897,000	3,760,000	4,200,000			
Peru	19,182,551	14,335,395	13,056,364	11,561,612	15,397,909	17,371,381	12,277,000	9,175,000	8,356,000	7,399,000	9,855,000	11,118,000			
Venezuela	15,670	9,017	4,192	50,000,000	50,000,000	50,000,000	n.a.	n.a.	5,000	2,000	n.a.	3,000			
Burma (e)	55,000,000	45,000,000	35,000,000	21,000	21,000	59,000	30,000	20,000	5,000	10,000	n.a.	30,000			
China (c)	56,700	41,000	10,000	2,386,916	2,516,975	2,477,000	1,549,000	1,569,000	1,419,000	1,342,000	1,409,000	1,400,000			
Japan (g)	2,808,683	2,825,554	2,545,935	492,800	674,000	723,500	197,000	245,000	236,000	251,000	344,000	369,000			
Korea (South)	385,900	481,200	463,300	3,799,000	4,700,000	5,800,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.			
Korea (North)	3,059,000	3,494,000	3,287,000	3,799,000	4,700,000	5,800,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.			
Lebanon	8,000	8,000	8,000	8,000	8,000	8,000	4,000	4,000	4,000	4,000	4,000	4,000			
Philippine Republic	1,120,785	1,152,061	1,365,054	1,362,823	1,345,369	1,415,070	650,000	668,000	782,000	790,000	780,000	826,000			
Thailand	11,294	54,912	44,592	18,493	183,000	738,656	7,000	34,000	28,000	10,000	120,000	460,000			
Turkey	722,888	745,671	800,000	734,800	960,248	1,506,000	405,000	420,000	450,000	410,000	540,000	840,000			
New Caledonia	271,700	275,000	298,500	294,200	302,500	274,800	149,000	146,000	164,000	164,000	168,000	151,000			
TOTAL	446,000,000	432,000,000	429,000,000	451,000,000	492,000,000	524,000,000	451,000,000	429,000,000	429,000,000	451,000,000	492,000,000	524,000,000			
WORLD'S TOTAL	510,000,000	499,000,000	502,000,000	528,000,000	578,000,000	616,000,000	528,000,000	499,000,000	499,000,000	528,000,000	578,000,000	616,000,000			

Iron ore is also produced in North Vietnam.

(a) Estimated. (b) Exports. (c) Usable ore.

(d) Including iron sand as follows (long tons):

1960—1,539,340; 1961—1,685,131; 1962—1,419,738; 1963—1,274,743; 1964—1,402,809; 1965—1,352,000.

(e) Used entirely for purposes other than iron production.

(f) United States Bureau of Mines estimate.

(g) Years ended March 20 following that stated.

(h) Including by-product magnetite as follows (long tons): 1960—263; 1961—209,712; 1962—276,547; 1963—521,261; 1964—845,451; 1965—892,513.



## DETAILS OF PRODUCTION OF IRON ORE IN CERTAIN COUNTRIES

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom—						
Hematite .. ..	434,900	414,000	378,200	393,900	427,100	408,200
Jurassic ironstones—						
Lower lias .. ..	5,411,600	5,547,800	5,516,000	5,268,900	5,440,900	5,065,300
Middle lias .. ..	2,551,100	2,061,000	1,507,700	1,392,000	1,590,000	1,456,500
Inferior oolite .. ..	8,656,500	8,495,200	7,875,200	7,857,200	8,867,700	8,484,700
Sierra Leone (c)—						
Lump .. ..	16,650	40	—	—	—	—
Concentrates .. ..	1,442,140	1,625,703	1,875,822	1,814,687	1,827,018	2,054,882
Fines .. ..	80,790	131,095	106,696	138,189	153,298	241,930
Ferromax .. ..	865	1,015	507	775	219	171
<b>OTHER COUNTRIES</b>						
France—						
Phosphoric .. ..	61,734,641	61,415,340	61,436,403	53,518,180	56,547,534	55,239,000
Medium phosphoric .. ..	3,804,362	3,845,260	3,624,684	3,378,933	3,346,263	3,274,000
Non-phosphoric .. ..	367,689	293,759	192,993	80,443	81,779	79,000
Luxemburg—						
Siliceous iron ore .. ..	3,218,654	3,361,895	3,081,546	3,343,640	3,419,260	3,001,948
Calcareous iron ore .. ..	3,333,523	3,584,754	2,883,330	3,103,315	2,787,177	2,901,279
Ferruginous limestone .. ..	314,930	393,503	439,528	432,957	367,744	312,479
Portugal—						
Hematite .. ..	189,000	105,000	69,000	58,000	42,000	n.a.
Magnetite .. ..	108,000	125,000	160,000	162,000	128,000	n.a.
Limonite .. ..	—	2,000	—	—	—	n.a.
Manganiferous iron ore .. ..	—	13,000	29,000	38,000	42,000	n.a.
Sweden—						
Manganiferous iron ore .. ..	92,000	75,000	138,000	181,000	133,000	n.a.
Other iron ore .. ..	21,255,000	23,145,000	22,032,000	23,083,000	26,066,000	n.a.
By phosphorus content (a)						
Under 0.006% .. ..	1,334,918	1,365,794	1,491,971	1,454,568	1,358,059	n.a.
0.006% to under 0.04% .. ..	2,739,281	2,953,101	2,302,191	2,647,784	3,306,509	n.a.
0.04% to under 0.1% .. ..	768,128	1,030,981	1,607,100	1,244,866	1,426,243	n.a.
0.1% to under 0.7% .. ..	6,795,149	7,322,106	6,020,284	6,313,641	6,674,363	n.a.
0.7% to under 1% .. ..	1,392,311	1,445,544	1,395,855	1,482,344	2,045,676	n.a.
1% and over .. ..	8,317,267	9,102,882	9,352,963	10,120,398	11,387,640	n.a.
United States—						
Ore containing less than 5% Mn—						
Hematite (b) .. ..	68,147,000	50,883,000	46,863,000	46,509,000	47,603,000	} 87,842,000
Magnetite (b) .. ..	18,205,000	18,295,000	20,788,000	23,891,000	34,392,000	
Limonite .. ..	1,641,000	1,473,000	3,599,000	2,443,000	1,804,000	
Pyrite cinder and sinter .. ..	791,000	678,000	579,000	757,000	1,032,000	
Ore containing 5 to under 10% Mn .. ..	506,551	95,855	129,979	136,569	27,725	n.a.

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

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

(c) Exports.

EXPORTS OF IRON ORE  
(including Manganiferous Iron Ore)

Long tons

Exporting Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom .. ..	563	555	364	482	403	273
Rhodesia (f) .. ..	649	14,506	118,557	207,239	282,045	316,270
Sierra Leone .. ..	1,540,445	1,757,853	1,983,025	1,953,651	1,980,535	2,296,983
Canada .. ..	16,942,140	14,868,166	21,645,758	23,854,973	30,473,700	30,799,252
Hong Kong .. ..	122,472	127,390	r 114,652	119,826	129,569	142,948
India (b) .. ..	3,140,124	3,313,077	3,737,436	} 9,712,220	10,407,378	12,075,253
Goa .. ..	5,562,820	6,425,000	5,195,255			
Malaya .. ..	5,500,173	6,425,552	6,441,107	6,581,755	6,316,970	6,634,197
Australia (e)—						
Iron ore .. ..	n.a.	46	110	113	12,201	96,651
Burnt pyrites .. ..	n.a.	508,546	171,661	118,337	106,715	73,912
Fiji .. ..	21,994	8,906	7,339	1,227	—	—
Irish Republic—						
Burnt pyrites .. ..	30,434	17,366	12,576	1,639	6,067	1,610
<b>OTHER COUNTRIES</b>						
Albania—						
Iron ore .. ..	241,600	410,100	410,700	78,900	n.a.	n.a.
Austria .. ..	19,704	9,862	30	39	63	39
Belgium-Luxemburg						
E.U.—						
Iron ore .. ..	126,649	186,897	232,968	271,060	222,103	66,334
Burnt pyrites .. ..	311,009	233,943	199,509	210,810	184,691	195,922
Denmark—						
Bog ore (a) .. ..	63,196	56,022	67,689	50,169	56,862	35,530
Burnt pyrites .. ..	96,835	94,727	93,310	84,442	101,999	93,503
Finland—						
Iron ore .. ..	282,755	219,331	171,626	85,674	167,236	17,019
Burnt pyrites .. ..	120,821	204,172	169,218	163,855	122,807	105,868
France—						
Iron ore .. ..	26,726,549	25,446,172	25,277,522	20,869,283	21,741,834	20,419,735
Burnt pyrites .. ..	497,461	395,713	355,744	338,289	286,846	238,875
Germany (Federal)—						
Iron ore .. ..	(d) 239,774	253,621	277,833	281,577	285,072	274,323
Burnt pyrites .. ..	17,661	4,968	4,436	2,566	14,259	37,372
Greece—						
Iron ore .. ..	301,364	270,466	243,811	93,389	56,577	n.a.
Burnt pyrites .. ..	39,238	41,653	24,357	42,488	22,153	n.a.
Italy—						
Iron ore .. ..	7,366	25,813	238	43	6,429	36,437
Burnt pyrites .. ..	706,707	664,308	602,502	645,669	656,625	631,391
Netherlands—						
Iron ore .. ..	7,811	9,366	11,070	6,652	3,070	6,587
Burnt iron pyrites .. ..	435,932	225,388	120,076	125,148	244,879	254,159
Norway—						
Iron ore .. ..	1,173,143	1,119,787	1,248,534	1,203,570	1,527,988	1,351,992
Burnt pyrites .. ..	115,829	70,550	78,067	r 63,374	74,896	69,499
Portugal—						
Iron ore .. ..	234,152	93,540	97,937	71,771	36,277	2,731
Burnt pyrites .. ..	254,946	102,675	28,909	15,403	22,775	3,986
Spain (c) .. ..	3,123,329	2,822,961	1,873,512	1,904,347	2,414,014	1,854,492
Sweden—						
Iron ore .. ..	19,500,385	19,930,000	19,090,000	19,936,000	23,973,000	24,075,000
Burnt pyrites .. ..	168,140	178,000	197,000	227,000	341,000	417,000
Switzerland (c) .. ..	120,867	60,314	74,253	88,509	62,634	95,304
U.S.S.R.—						
Iron ore .. ..	14,942,200	16,025,800	18,636,000	20,460,700	22,243,000	23,757,000
Burnt pyrites .. ..	652,529	870,038	768,665	999,954	927,122	1,213,000

(a) Used for purposes other than iron making.

(b) Years ended March 31 following that stated.

(c) Including burnt pyrites.

(d) Including ferruginous manganese ore.

(e) Years ended June 30 of that stated.

(f) Figures for years 1960 to 1963 relate to Rhodesia and Nyasaland.

## EXPORTS OF IRON ORE (cont.)

Long tons

Exporting Country	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Yugoslavia—						
Iron ore .. ..	88,932	121,753	100,334	151,547	198,169	97,231
Burnt pyrites .. ..	—	—	—	—	1,037	2,358
Algeria—						
Iron ore .. ..	3,517,342	2,736,684	2,097,344	1,928,060	2,783,645	2,945,431
Burnt pyrites .. ..	10,338	31,953	34,144	32,381	31,642	35,313
Angola .. ..	537,180	486,678	438,944	645,183	1,109,740	682,450
Guinea .. ..	715,413	509,959	685,000	551,000	<i>n.a.</i>	<i>n.a.</i>
Liberia .. ..	2,915,686	2,791,829	3,741,059	6,355,687	12,029,388	15,086,547
Mauritania .. ..	—	<i>n.a.</i>	<i>n.a.</i>	128,000	4,900,000	5,871,000
Morocco—						
Iron ore .. ..	798,129	1,879,282	1,130,303	1,061,784	977,997	942,141
Burnt pyrites .. ..	1,087	17,423	23,241	19,547	25,738	13,860
South Africa .. ..	466,911	558,135	732,216	679,779	1,116,077	1,220,301
Sudan .. ..	—	—	—	—	—	34,023
Tunisia .. ..	1,024,366	885,158	702,301	755,771	817,634	895,842
Dominican Republic .. ..	99,546	12	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Mexico .. ..	153,355	120,829	144,733	1,095	21,148	<i>n.a.</i>
United States .. ..	5,273,000	4,916,173	5,897,667	6,812,793	6,963,375	7,084,682
Brazil .. ..	5,157,051	6,182,424	7,529,034	8,137,174	9,575,964	12,530,156
Chile .. ..	5,109,168	6,099,440	7,131,117	6,979,980	8,970,565	10,555,000
Peru .. ..	5,088,840	5,484,569	5,067,878	5,657,870	5,122,981	6,274,264
Venezuela .. ..	19,014,669	14,334,747	13,075,372	12,124,597	14,658,189	16,737,405
Iran (a) .. ..	32,735	21,208	4,823	1,968	5,234	—
Korea (South) .. ..	230,388	436,809	358,245	540,966	577,629	697,675
Philippine Republic—						
Iron ore .. ..	1,217,550	1,289,210	1,313,820	1,450,668	1,324,083	1,307,181
Burnt pyrites .. ..	<i>n.a.</i>	7,578	11,220	8,169	3,740	<i>n.a.</i>
Turkey .. ..	301,013	250,210	168,930	11,909	—	—
New Caledonia .. ..	272,834	253,322	289,779	289,502	308,397	271,501

(a) Years ended March 20 following that stated.

IMPORTS OF IRON ORE  
(including Manganiferous Iron Ore)

Long tons

Importing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom—						
Iron ore . . . . .	17,968,495	14,965,971	12,897,165	13,940,164	18,000,505	18,314,109
Burnt pyrites . . . . .						
Canada . . . . .	4,514,596	4,132,280	4,604,779	5,325,713	5,232,404	4,763,029
Hong Kong . . . . .	5,728	3,724	4,270	12,250	1,545	9,838
India (d) . . . . .	109	1,218	270	100	150	—
Australia (a) . . . . .	249,150	277,299	273,481	293,467	274,241	277,496
Irish Republic . . . . .	14	20	15	202	267	1,242
<b>OTHER COUNTRIES</b>						
Austria—						
Iron ore . . . . .	1,586,422	1,276,474	1,028,169	972,994	1,089,893	1,101,776
Burnt pyrites . . . . .	459,295	423,255	371,504	356,078	368,068	355,247
Belgium-Luxemburg						
E.U.—						
Iron ore . . . . .	20,337,109	20,214,909	20,810,570	19,409,036	22,535,724	23,369,882
Burnt pyrites . . . . .	87,853	111,275	58,059	43,483	113,197	151,382
Czechoslovakia . . . . .	7,097,000	7,844,000	8,188,000	9,186,000	9,162,000	9,402,000
Denmark . . . . .	2,539	3,411	1,422	(b) 2,053	(b) 2,048	(b) 7,950
Finland . . . . .	159,474	142,947	441,585	377,101	505,459	953,519
France—						
Iron ore . . . . .	1,482,127	1,671,789	1,866,118	3,423,086	3,545,327	3,846,865
Burnt pyrites . . . . .	13,876	14,504	18,668	26,865	38,921	75,536
Germany (Federal)—						
Iron ore (e) . . . . .	33,122,454	32,112,290	28,609,917	26,573,630	34,470,471	34,911,085
Burnt pyrites . . . . .	2,952,623	2,441,821	1,834,503	1,885,295	1,918,140	1,858,488
Germany (East) (c) . . . . .	1,170,800	1,078,000	1,240,500	1,312,400	1,382,500	1,429,500
Hungary . . . . .	1,845,717	2,001,905	2,207,495	2,314,180	2,619,766	2,442,000
Italy . . . . .	2,579,586	3,254,662	4,354,252	5,144,832	4,965,003	7,886,661
Netherlands . . . . .	2,284,179	2,219,398	2,280,542	2,501,403	3,011,856	3,519,462
Norway . . . . .	10,700	13,486	21,163	r 10,870	19,635	17,105
Poland . . . . .	7,204,400	7,548,400	7,976,000	8,666,900	8,943,200	9,127,000
Roumania . . . . .	902,600	1,238,300	1,897,300	2,201,200	2,268,700	2,581,800
Spain . . . . .	32,705	210,918	248,866	91,701	92,823	347,287
Sweden—						
Iron Ore . . . . .	3,752	4,000	3,000	2,000	72,000	169,000
Burnt pyrites . . . . .	14,868	18,700	19,684	15,000	10,000	20,000
Switzerland (b) . . . . .	8,840	7,738	1,309	3,669	1,958	2,562
Yugoslavia . . . . .	127,203	379,735	347,565	424,751	375,248	358,162
Morocco . . . . .	—	—	—	806	24,605	442
United States—						
Iron ore . . . . .	34,578,000	25,804,749	33,431,077	33,262,892	42,408,092	45,103,418
Burnt pyrites . . . . .	5,884	3,504	4,248	3,263	8,635	1,563
Argentina . . . . .	436,786	312,389	506,912	745,428	1,003,020	1,032,519
Formosa . . . . .	16,148	71,539	10,287	43,020	76,277	30,612
Japan—						
Iron ore . . . . .	14,687,616	20,693,941	21,947,378	25,661,157	30,678,093	38,370,349
Burnt pyrites . . . . .	110,968	209,897	143,461	191,905	64,820	31,538

(a) Years ended June 30 of that stated.

(b) Including burnt pyrites.

(c) Fe content.

(d) Years ended March 31 following that stated.

(e) Figures for 1960 include ferruginous manganese ore.

## PRODUCTION OF PIG-IRON AND FERRO-ALLOYS\*

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom .. .. .	15,762,900	14,747,100	13,692,100	14,591,400	17,273,600	17,459,900
Rhodesia .. .. .	84,800	216,300	237,600	232,262	312,706	246,000
Canada .. .. .	3,961,057	4,521,448	4,838,000	r 5,433,000	5,988,038	6,470,038
India .. .. .	4,197,200	5,020,000	5,830,000	6,630,000	6,630,000	7,030,000
Australia (e) .. .. .	2,876,267	3,156,411	3,434,336	r 3,629,771	3,987,801	4,222,364
<b>TOTAL .. .. .</b>	<b>26,882,200</b>	<b>27,661,000</b>	<b>28,032,000</b>	<b>r30,520,000</b>	<b>34,190,000</b>	<b>35,430,000</b>
<b>OTHER COUNTRIES</b>						
Austria .. .. .	2,202,400	2,232,300	2,088,000	2,076,600	2,174,200	2,170,400
Belgium .. .. .	6,449,236	6,351,962	6,633,876	6,806,138	7,919,500	8,233,933
Bulgaria .. .. .	188,744	202,868	219,459	r 261,135	450,000	685,000
Czechoslovakia .. .. .	4,621,000	4,892,000	5,095,000	5,171,000	5,627,000	5,777,000
Finland .. .. .	102,931	r 149,625	r 325,771	r 326,692	583,000	921,000
France (a) .. .. .	13,921,857	14,336,328	13,738,471	14,080,508	15,612,174	15,520,937
Germany—						
Federal Republic .. .. .	25,481,000	25,174,000	23,977,000	22,652,000	26,882,000	26,706,000
Eastern .. .. .	1,963,200	1,998,800	2,042,400	2,115,900	2,224,200	2,301,100
Hungary .. .. .	1,237,980	1,299,065	1,378,278	1,379,266	1,476,414	1,564,000
Italy .. .. .	2,779,657	3,150,883	3,619,510	3,806,758	3,567,000	5,539,552
Luxemburg .. .. .	3,725,552	3,773,177	3,540,045	3,530,158	4,124,824	4,512,400
Netherlands .. .. .	1,324,300	1,433,300	1,546,500	1,681,400	1,916,200	2,327,000
Norway .. .. .	708,452	744,704	711,716	737,028	879,469	1,063,272
Poland .. .. .	4,491,000	4,695,000	5,227,000	5,310,000	5,554,000	5,669,000
Portugal .. .. .	40,424	120,382	221,455	236,453	263,895	270,000
Roumania .. .. .	998,116	1,081,872	1,486,942	1,679,000	1,894,000	1,987,000
Spain .. .. .	1,897,002	2,089,512	2,120,045	1,952,717	1,938,618	2,391,000
Sweden .. .. .	1,606,169	1,869,610	1,932,333	1,993,065	2,306,175	2,400,000
Switzerland .. .. .	50,000	50,000	50,000	41,000	30,000	25,000
U.S.S.R. .. .. .	46,019,000	50,089,000	54,392,000	57,764,000	61,392,000	65,200,000
Yugoslavia .. .. .	1,003,000	1,036,000	1,086,000	1,043,450	1,056,616	1,156,395
Egypt .. .. .	146,000	171,000	r 173,000	201,473	189,062	(d) 170,000
South Africa .. .. .	1,961,700	2,291,200	2,361,100	2,389,200	2,853,700	3,596,000
Mexico .. .. .	675,000	771,534	814,001	845,468	954,000	973,000
United States .. .. .	61,219,986	59,433,091	60,352,980	65,817,167	78,511,112	81,177,100
Argentina .. .. .	177,267	390,211	390,200	415,800	580,000	652,700
Brazil .. .. .	1,755,231	1,830,836	2,086,070	r 2,476,231	2,623,370	2,500,000
Chile (b) .. .. .	262,000	281,000	377,000	411,000	430,000	304,000
Colombia .. .. .	164,447	186,000	143,000	199,000	201,728	200,727
Peru .. .. .	n.a.	50,000	38,000	32,000	27,000	30,000
Venezuela .. .. .	—	5,000	121,000	297,000	319,000	314,000
China .. .. .	27,100,000	d15,000,000	d15,000,000	d17,000,000	d18,000,000	d19,000,000
Formosa (f) .. .. .	24,058	52,009	62,380	52,763	60,860	70,900
Japan .. .. .	12,234,395	16,294,968	18,197,975	20,154,399	24,100,000	27,700,000
Korea (South) .. .. .	13,714	8,962	—	5,340	1,314	18,092
Korea (North) .. .. .	856,000	935,000	1,219,000	1,165,000	1,348,000	d 1,609,000
Thailand .. .. .	6,000	5,000	5,000	6,000	5,000	5,000
Turkey .. .. .	243,000	184,500	149,000	210,900	293,000	(c) 300,000
<b>TOTAL .. .. .</b>	<b>227,600,000</b>	<b>224,000,000</b>	<b>233,000,000</b>	<b>246,000,000</b>	<b>278,000,000</b>	<b>295,000,000</b>
<b>WORLD'S TOTAL .. .. .</b>	<b>254,500,000</b>	<b>252,000,000</b>	<b>261,000,000</b>	<b>276,000,000</b>	<b>312,000,000</b>	<b>330,000,000</b>

\* For details see page 160.

(a) Excluding electric furnace and alumino-thermic ferro-alloys. For these see page 161.

(b) Excluding ferro-alloys.

(c) Estimated.

(d) United States Bureau of Mines' estimate.

(e) Including recovery from scrap and excluding ferro-alloys. For ferro-alloys see page 160.

(f) Including recovery from scrap.

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

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
<b>United Kingdom—</b>						
Hematite .. ..	1,187,100	1,136,800	875,700	816,800	956,800	877,300
Basic .. ..	13,072,100	12,255,700	11,568,300	12,644,400	15,069,300	15,377,100
Foundry .. ..	1,293,100	1,196,200	1,054,000	1,005,800	1,079,100	1,012,300
Forge .. ..	5,200					
Direct castings ..	100					
Blast furnace ferro-alloys—						
Spiegeleisen ..	25,600	29,600	41,100	23,000	16,900	21,200
Ferro-manganese ..	179,700	128,800	153,000	101,400	151,500	172,000
<b>Canada—</b>						
Basic .. ..	3,213,031	3,753,195	4,072,565	r 4,549,179	5,052,547	5,634,602
Foundry .. ..	258,973	345,218	227,506	r 279,153	388,947	427,926
Malleable .. ..	366,254	317,678	411,315	r 469,230	398,397	245,401
Ferro-alloys (a) ..	122,799	105,357	127,000	r 135,000	148,147	162,109
<b>India—</b>						
Basic .. ..	2,973,314	3,536,000	4,240,000	4,750,000	4,640,000	6,860,000
Foundry .. ..	1,015,660	1,067,000	1,100,000	1,364,000	1,297,000	
Other pig-iron ..	85,583	265,000	319,000	365,000	552,000	
Direct castings ..	34,976	40,000	48,000	20,000		
Ferro-manganese ..	81,000	100,000	110,000	r 115,711	123,749	146,973
Ferro-silicon ..	6,000	9,000	12,000	14,982	17,245	20,215
Ferro-chrome ..	—	—	—	—	319	—
<b>Australia—</b>						
Pig-iron .. ..	2,876,267	3,156,411	3,434,336	r 3,629,771	3,987,801	4,222,364
Ferro-manganese (b) ..	6,440	—	17,000	34,000	33,729	40,254
Ferro-silicon (b) ..	7,200	8,144	7,438	8,302	5,015	4,404
Ferro-nickel (b) ..	646	1,426	—	—	—	—
Silico-manganese (b) ..	1,698	2,409	5,039	4,322	13,510	n.a.
Ferro-chrome (b) ..	597	705	571	1,094	2,441	1,337
Chrome silicide (b) ..	—	—	—	—	238	n.a.
<b>OTHER COUNTRIES</b>						
<b>Austria—</b>						
Basic .. ..	2,184,202	2,142,834	2,061,747	2,037,632	2,139,502	2,111,378
Hematite .. ..	—	65,568	16,057	35,102	29,575	53,954
Other .. ..	12,297	18,172	6,417	—	—	—
Electric furnace ferro-alloys .. ..	5,900	5,700	3,800	3,900	5,100	5,100
<b>Belgium—</b>						
Basic .. ..	6,301,675	6,207,543	6,521,320	6,714,803	7,816,863	8,122,069
Forge .. ..	33,590	13,008	4,729	482	1,021	—
Foundry .. ..	93,733	110,458	92,703	73,124	89,704	98,590
Ferro-alloys .. ..	20,238	20,953	15,124	17,729	11,912	13,274
<b>Czechoslovakia—</b>						
Basic .. ..	4,049,000	4,283,000	4,522,000	4,550,000	4,944,000	5,049,000
Foundry .. ..	507,000	539,000	498,000	544,000	591,000	636,000
Ferro-alloys .. ..	65,000	70,000	75,000	77,000	92,000	92,000
<b>France—</b>						
<b>Phosphoric (over 1.4% P)—</b>						
Basic .. ..	12,086,358	12,342,936	11,946,528	11,872,295	12,793,864	12,357,070
Foundry .. ..	181,221	170,300	146,726	146,518	156,782	141,593
<b>Semi-phosphoric (from 0.5% to 1.4% P)—</b>						
Foundry .. ..	237,002	286,204	294,265	293,879	288,060	267,647
Open hearth, basic ..	—	66,726	—	(c)	(c)	(c)
<b>Hematite (less than 0.5%P)—</b>						
Foundry .. ..	327,024	360,900	366,023	436,753	443,040	500,599
Open hearth and Bessemer .. ..	400,228	352,526	265,488	769,698	1,279,228	1,653,051

(a) Factory shipments.

(b) Years ended November 30 of year stated.

(c) Included, if any, with phosphoric.

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

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
France <i>(cont.)</i> —						
Blast furnace ferro-alloys—						
Spiegeleisen .. ..	136,372	130,802	135,723	110,153	90,725	103,703
Ferro-manganese .. ..	243,877	270,148	267,393	252,510	315,021	321,945
Other pig-iron .. ..	309,775	355,786	316,325	198,702	245,454	175,329
Electric furnace and aluminio-thermic ferro-alloys—						
Ferro-silicon (50% Si)	104,058	126,468	102,095	86,649	101,720	117,550
Silico-spiegeleisen and silico-manganese .. ..	14,041	15,409	12,279	18,442	11,505	26,089
Silico-aluminium and silico-manganese-aluminium .. ..	1,172	1,020	1,506	938	844	1,052
Ferro-manganese .. ..	27,429	25,836	28,080	28,500	28,864	n.a.
Ferro-chrome .. ..	58,980	66,333	56,019	53,722	61,480	70,356
Ferro-tungsten ( <i>W content</i> ) .. ..	846	1,112	898	657	458	559
Ferro-molybdenum ( <i>Mo content</i> ) .. ..	2,036	2,052	1,593	1,772	1,786	1,427
Ferro-vanadium ( <i>V content</i> ) .. ..	477	443	275	269	306	392
Titanium alloys .. ..	5,582	4,661	2,734	3,424	3,915	4,876
Silico-zirconium .. ..	110	3,501	266	338	506	n.a.
Silico-chrome .. ..	2,974		2,337	3,370	4,097	n.a.
Ferro-silico-magnesium and silico-magnesium .. ..	675	1,160	1,673	2,662	2,227	n.a.
Ferro-niobium ( <i>Nb + Ta content</i> ) .. ..	5	14	17	13	70	n.a.
Germany (Federal)—						
Hematite and malleable Basic .. ..	933,000	1,001,000	950,000	959,000	1,234,000	1,271,000
Foundry .. ..	16,454,000	16,000,000	14,941,000	13,858,000	15,282,000	14,681,000
Stahleisen .. ..	696,000	678,000	657,000	593,000	493,000	446,000
Spiegeleisen (blast-furnace) .. ..	6,667,000	6,662,000	6,777,000	6,599,000	9,224,000	9,614,000
Ferro-manganese (blast furnace) .. ..	274,000	267,000	271,000	286,000	283,000	276,000
Siegerland special						
Other pig-iron .. ..	308,000	420,000	271,000	253,000	237,000	276,000
Ferro-silicon (blast-furnace) .. ..						
Electric furnace and aluminio-thermic ferro-alloys .. ..	148,866	146,103	110,056	103,635	129,371	141,721
Germany (East)—						
Foundry .. ..	479,200	489,500	530,000	524,700	541,700	596,200
Open hearth .. ..	1,024,900	1,054,300	1,058,800	1,140,300	1,225,200	1,238,700
Basic Bessemer .. ..	437,000	421,900	432,600	430,100	437,400	449,300
Spiegeleisen .. ..	22,100	33,100	20,500	20,300	19,100	16,600
Other .. ..	—	—	500	500	800	300
Hungary—						
Basic .. ..	1,120,884	1,146,683	1,245,516	1,264,456	1,382,027	1,489,000
Foundry .. ..	100,227	137,548	110,357	99,149	87,698	64,000
Spiegeleisen .. ..	2,263	1,253	3,820	2,535	917	4,000
Ferro-manganese .. ..	10,826	8,715	12,704	6,952	161	1,536
Ferro-silicon .. ..	3,780	4,866	5,881	6,174	5,611	5,562
Italy—						
Pig-iron .. ..	2,640,469	3,008,079	3,499,821	3,681,586	3,442,542	5,401,116
Spiegeleisen .. ..	6,500	6,838	4,333	5,481	1,330	2,829
Ferro-manganese .. ..	29,971	32,658	26,091	28,657	24,564	18,792
Ferro-silicon .. ..	45,335	50,994	43,212	43,514	44,099	48,226

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

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
<b>Italy (cont.)—</b>						
Silico-manganese ..	24,277	25,827	24,789	33,739	26,990	33,817
Ferro-chrome ..	20,218	16,374	10,016	5,146	15,208	21,795
Ferro-titanium ..	173	151	162	199	232	76
Ferro-tungsten ..	96	87	34	33	21	140
Ferro-vanadium ..	92	83	49	80	129	n.a.
Ferro-molybdenum ..	1,048	1,072	942	833	859	957
Silico-aluminium ..	636	1,090	619	634	1,090	n.a.
Silicon pig iron (10-12% Si) ..	4,573	2,522	2,217	967	1,631	1,752
Silico-spiegeleisen ..	1,538	1,305	1,326	1,750	2,053	1,318
Silico-chrome ..	—	312	1,117	—	2,885	n.a.
Calcium silicide ..	4,605	2,875	4,081	3,676	3,049	3,670
Ferro-phosphorus ..	126	616	700	463	n.a.	n.a.
<b>Luxembourg—</b>						
Basic ..	3,725,552	3,773,177	3,540,045	3,530,158	4,124,824	4,512,400
<b>Norway—</b>						
Pig-iron ..	368,377	372,065	389,572	400,594	429,815	517,462
Ferro-silicon ..	170,148	190,279	168,910	155,721	220,970	262,189
Ferro-manganese ..	47,764	52,107	54,423	57,091	74,684	118,590
Ferro-silico-manganese ..	76,650	88,994	77,149	89,026	107,809	123,251
Ferro-chrome and silico- chrome ..	44,844	40,210	21,022	33,346	45,112	33,433
Other ferro-alloys ..	669	1,049	1,259	1,250	1,079	8,347
<b>Portugal—</b>						
Basic ..	38,346	118,302	181,586	199,597	222,671	244,000
Foundry ..			36,689	31,284	35,930	22,000
Ferro-manganese ..			393	706	661	n.a.
Ferro-silicon ..			2,787	4,866	4,633	n.a.
<b>Spain—</b>						
Pig-iron ..	1,855,747	2,043,997	2,066,682	1,880,923	1,873,333	n.a.
Ferro-manganese ..	25,686	21,937	27,571	27,145	32,326	n.a.
Ferro-silicon ..	14,697	22,185	24,771	27,601	16,364	n.a.
Ferro-tungsten ..	53	95	153	17,048	16,595	n.a.
Ferro-chrome ..	405	805	868			
Ferro-phosphorus ..	414	493	—			
Other ferro-alloys ..	—	—	—			
<b>Sweden—</b>						
Pig-iron ..	1,487,008	1,732,388	1,792,577	1,854,282	2,161,175	2,300,000
Ferro-manganese ..	23,794	23,211	22,903	25,480	26,250	25,700
Ferro-silicon ..	23,355	31,203	25,561	23,148	26,862	30,300
Ferro-silico-manganese ..	11,609	11,803	14,023	10,970	10,733	14,500
Ferro-chrome ..	38,675	50,583	43,666	45,067	50,036	56,200
Ferro-titanium ..	—	—	60	—	—	n.a.
Ferro-tungsten ..	393	553	519	237	208	100
Ferro-molybdenum ..	1,744	1,761	1,241	1,460	2,043	2,400
Ferro-vanadium ..	338	344	282	312	319	400
Metallic silicon ..	5,377	4,279	5,919	8,026	7,100	9,200
Silico-chrome ..	12,554	12,380	25,253	23,816	21,225	19,300
Other ferro-alloys ..	1,322	1,105	329	267	224	n.a.
<b>U. S. S. R.—</b>						
Basic ..	37,864,000	41,354,000	44,859,000	47,602,000	50,779,000	n.a.
Foundry ..	6,851,000	7,313,000	7,943,000	8,481,000	8,835,000	n.a.
Spiegeleisen ..	80,000	95,000	89,000	90,000	80,000	n.a.
Ferro-manganese ..	633,000	688,000	799,000	808,000	902,000	n.a.
Other blast furnace ferro-alloys ..	591,000	639,000	702,000	783,000	796,000	n.a.
<b>Yugoslavia—</b>						
Pig-iron ..	957,000	981,000	1,033,000	980,673	1,009,814	1,097,447
Ferro-alloys ..	46,083	54,772	52,626	62,777	46,802	58,948
<b>South Africa—</b>						
Pig-iron ..	1,792,000	2,099,900	2,192,700	2,182,800	2,614,500	3,220,000
Ferro-alloys ..	169,700	191,300	168,400	206,400	239,200	376,000



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

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
<b>United States—</b>						
Basic .. .. .	52,018,846	51,919,214	52,505,467	57,991,137	69,997,803	71,813,500
Bessemer .. .. .	3,038,928	2,322,452	2,520,245	2,472,682	2,435,272	2,425,000
Low phosphorus .. .. .	345,768	157,212	156,012	167,561	174,737	195,900
Foundry .. .. .	1,310,141	1,216,263	1,275,548	1,368,587	1,449,111	1,428,100
Malleable .. .. .	2,386,496	1,877,432	1,923,176	1,952,204	2,029,979	2,505,400
Other pig-iron .. .. .	257,543	213,397	227,431	194,306	279,691	368,900
Ferro-manganese and spiegeleisen .. .. .	784,054	699,329	716,067	606,635	773,712	901,000
Ferro-silicon and silvery pig-iron .. .. .	611,731	476,987	487,405	493,874	598,416	(b) 628,700
Other ferro-alloys .. .. .	466,479	550,805	541,629	570,181	772,391	910,600
<b>Brazil—</b>						
Pig-iron .. .. .	1,722,212	1,797,213	2,048,116	r 2,437,542	2,587,965	n.a.
Spiegeleisen .. .. .	137	273	124	—	—	n.a.
Ferro-chrome .. .. .	1,699	968	1,982	1,672	128	n.a.
Ferro-columbium .. .. .	—	—	—	—	18	272
Ferro-manganese .. .. .	18,827	18,196	22,646	20,527	20,317	n.a.
Ferro-nickel .. .. .	325	335	326	234	245	n.a.
Ferro-silicon .. .. .	7,273	7,373	7,931	r 10,712	8,128	n.a.
Ferro-silico-manganese .. .. .	4,758	6,478	4,945	r 5,544	6,587	n.a.
<b>Japan—</b>						
Pig-iron .. .. .	11,786,361	15,674,147	17,688,051	19,621,124	23,402,839	27,068,000
Spiegeleisen .. .. .	8,059	3,100	3,583	717	535	100
Ferro-chrome .. .. .	79,150	98,514	83,193	80,587	134,632	115,000
Ferro-manganese .. .. .	153,145	182,601	163,962	162,979	208,248	217,200
Ferro-molybdenum .. .. .	1,758	1,954	497	1,001	1,406	1,200
Ferro-phosphorus .. .. .	2,126	2,164	1,130	1,241	1,703	1,500
Ferro-silicon .. .. .	73,876	96,570	74,165	92,687	111,995	118,900
Ferro-titanium .. .. .	223	448	450	169	n.a.	n.a.
Ferro-tungsten .. .. .	1,177	1,676	869	748	1,159	700
Ferro-nickel .. .. .	52,492	61,658	35,404	46,143	77,086	72,600
Ferro-vanadium .. .. .	845	1,269	598	1,267	1,110	n.a.
Silico-manganese .. .. .	56,782	94,335	88,056	95,353	112,906	113,400
Silico-chrome .. .. .	43,926	58,632	43,206	31,989	58,209	n.a.
Calcium-silicon .. .. .	7,753	9,222	7,361	6,922	9,477	5,500
Other ferro-alloys .. .. .	10,648	8,678	7,450	11,472	n.a.	n.a.
<b>Turkey—</b>						
Pig-iron .. .. .	243,000	184,500	149,000	207,200	288,000	(a) 300,000
Ferro-chrome .. .. .	—	—	—	3,700	4,745	7,355

(a) Estimated.

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

## PRODUCTION OF STEEL INGOTS AND CASTINGS\*

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom .. .. .	24,305,000	22,086,100	20,491,000	22,520,200	26,229,900	27,006,100
Rhodesia (c) .. .. .	84,400	90,800	86,600	82,555	125,597	n.a.
Canada .. .. .	5,186,703	5,793,131	6,404,941	r 7,318,813	8,152,467	8,954,374
India .. .. .	3,234,017	4,019,000	5,070,600	(c)5,874,324	(c)5,937,477	(c)6,311,398
Pakistan .. .. .	11,321	11,655	10,537	11,590	12,067	n.a.
Australia (f) .. .. .	3,693,770	3,884,929	r 4,170,767	r 4,579,892	5,021,350	5,412,889
<b>TOTAL .. .. .</b>	<b>36,510,000</b>	<b>35,880,000</b>	<b>r36,230,000</b>	<b>r40,390,000</b>	<b>45,480,000</b>	<b>47,800,000</b>
Irish Republic (d) .. .. .	29,800	28,000	18,800	19,400	51,800	n.a.
<b>OTHER COUNTRIES</b>						
Austria .. .. .	3,112,578	3,052,367	2,923,119	2,900,761	3,143,976	3,170,438
Belgium .. .. .	7,028,057	6,850,345	7,181,300	7,164,484	8,600,000	9,000,000
Bulgaria .. .. .	249,457	334,610	415,993	453,334	467,000	579,000
Czechoslovakia .. .. .	6,661,000	6,931,000	7,518,000	7,478,000	8,244,000	8,462,000
Denmark .. .. .	312,100	317,800	361,000	353,200	389,900	405,400
Finland .. .. .	253,392	r 272,738	r 299,064	r 303,543	352,000	373,000
France .. .. .	17,007,694	17,292,546	16,968,015	17,279,305	19,467,773	19,294,145
Germany—						
Federal Republic .. .. .	33,562,000	32,929,000	32,045,000	31,098,000	36,749,000	36,240,000
Eastern .. .. .	3,284,300	3,390,000	3,564,800	3,568,600	3,790,900	3,828,500
Greece .. .. .	(e) 125,000	(e) 130,000	(e) 150,000	206,000	207,000	207,000
Hungary .. .. .	1,857,114	2,020,693	2,295,710	r 2,336,539	2,327,404	2,480,294
Italy .. .. .	8,099,101	8,980,181	9,603,344	9,996,123	9,638,613	12,460,328
Luxemburg .. .. .	4,019,192	4,047,827	3,946,610	3,967,985	4,486,546	4,134,794
Netherlands .. .. .	1,911,800	1,939,500	2,053,300	2,310,100	2,604,600	3,088,800
Norway .. .. .	482,532	491,003	480,076	535,000	605,720	675,118
Poland .. .. .	6,575,000	7,120,000	7,563,000	7,878,000	8,437,000	8,944,000
Portugal .. .. .	—	n.a.	171,840	218,879	245,703	269,000
Roumania .. .. .	1,777,260	2,092,913	2,412,000	2,661,000	2,991,000	3,372,000
Spain .. .. .	1,926,549	2,264,800	2,161,200	2,452,900	2,517,400	3,410,000
Sweden .. .. .	3,167,345	3,505,911	3,553,879	3,838,965	4,438,938	4,650,000
Switzerland .. .. .	271,000	292,000	313,000	317,000	340,000	342,000
U.S.S.R. .. .. .	64,261,000	69,634,000	75,101,000	78,959,000	83,691,000	90,000,000
Yugoslavia .. .. .	1,419,000	1,508,000	1,570,000	1,562,776	1,650,679	1,741,298
Egypt .. .. .	136,000	156,000	187,000	193,964	179,791	183,235
South Africa (a) .. .. .	2,032,400	2,390,300	2,537,600	2,707,400	2,954,400	3,080,300
Mexico .. .. .	1,515,222	1,648,334	1,656,000	1,935,398	2,300,000	2,341,086
United States (b) .. .. .	88,644,286	87,512,940	87,792,666	97,554,418	113,460,506	117,376,800
Argentina (c) .. .. .	272,669	434,513	634,300	880,600	1,247,000	1,324,900
Brazil .. .. .	2,224,400	2,404,600	2,524,700	r 2,787,100	3,039,900	2,930,000
Chile (c) .. .. .	414,896	357,140	486,748	481,274	535,655	435,000
Colombia .. .. .	151,041	176,000	136,100	195,422	192,979	200,490
Peru .. .. .	59,000	74,000	r 70,000	r 75,000	81,000	92,000
Uruguay .. .. .	n.a.	9,000	9,000	7,000	14,000	13,000
Venezuela .. .. .	46,000	74,000	221,000	358,000	433,000	1,068,000
Burma (e) .. .. .	n.a.	11,000	13,000	15,000	15,000	15,000
China .. .. .	18,160,000	9,500,000	10,000,000	12,000,000	e 14,000,000	e 15,000,000
Formosa .. .. .	196,000	195,000	179,000	271,000	296,000	433,000
Israel .. .. .	40,000	61,000	79,000	r 82,000	(e) 82,000	(e) 83,000
Japan .. .. .	21,788,740	27,821,909	27,111,196	31,003,913	39,170,588	40,511,000
Korea (North) .. .. .	631,000	760,000	1,033,000	1,006,000	1,132,000	e 1,210,000
Korea (South) .. .. .	50,528	65,136	146,057	159,800	131,634	191,793

\* For details see page 166.

(a) Excluding steel castings for which the amounts produced for sale were 46,700 tons, 45,400 tons, 62,300 tons, 82,000 tons, 93,200 tons and 106,800 tons in 1960, 1961, 1962, 1963, 1964 and 1965 respectively.

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

(c) Ingots only.

(f) Including recovery from scrap.

(d) Years ended June 30 of that stated.

(e) United States Bureau of Mines' estimate.

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

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Philippine Republic ..	(a) 62,000	(a) 70,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Thailand .. .. .	7,000	8,000	7,000	3,000	4,000	7,000
Turkey (b) .. ..	294,295	317,824	308,000	382,000	477,000	655,000
<b>TOTAL .. .. .</b>	<b>304,100,000</b>	<b>309,000,000</b>	<b>318,000,000</b>	<b>340,000,000</b>	<b>385,000,000</b>	<b>406,000,000</b>
<b>WORLD'S TOTAL ..</b>	<b>340,600,000</b>	<b>345,000,000</b>	<b>354,000,000</b>	<b>380,000,000</b>	<b>430,000,000</b>	<b>454,000,000</b>

(a) United States Bureau of Mines' estimate.

(b) Ingots only.

DETAILS OF PRODUCTION OF STEEL INGOTS AND CASTINGS  
IN CERTAIN COUNTRIES

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ingots and castings—						
Open hearth, acid ..	658,100	610,500	445,400	383,500	419,300	392,000
do. basic ..	19,874,700	17,768,300	16,274,700	16,725,600	18,069,600	16,822,200
Bessemer, acid (a) ..	294,400	254,000	193,000	213,700	290,300	258,400
do. basic (a) ..	1,680,700	1,699,000	2,013,700	3,041,900	4,432,300	6,026,300
Ingots, electric ..	1,252,000	1,207,100	1,102,900	1,692,300	} 2,938,700	3,437,300
Castings, electric ..	433,500	440,900	377,700	384,600		
All other ingots and castings ..	111,600	106,300	83,600	78,600	79,700	69,900
Canada—						
Ingots—						
Open hearth, basic and oxygen ..	4,544,339	5,100,755	5,709,331	r 6,537,118	7,249,421	7,809,471
do. electric ..	552,628	592,197	583,796	r 669,098	758,600	999,099
Castings—						
Open hearth, basic ..	2,331	2,527	2,790	r 2,360	1,454	} 145,804
Electric ..	87,405	97,652	109,024	r 110,237	142,992	
India—						
Ingots—						
Open hearth, basic ..	3,119,182	3,894,077	4,934,779	5,791,632	5,851,577	6,205,109
Electric ..	72,035	69,339	75,362	82,692	85,900	106,289
Castings ..	42,800	56,000	60,500	n.a.	n.a.	n.a.
OTHER COUNTRIES						
Austria—						
Open hearth ..	974,170	890,047	800,888	735,861	810,409	826,662
Electric ..	393,580	372,502	321,532	345,409	400,627	405,712
L.D. ..	1,744,828	1,789,818	1,800,699	1,819,491	1,932,940	1,938,064
Belgium—						
Ingots, open hearth ..	599,137	529,767	496,606	317,964	435,767	377,825
do. Bessemer, basic ..	6,004,490	5,872,962	6,265,329	6,465,435	7,088,736	6,780,051
do. electric ..	363,898	377,914	350,868	183,935	340,904	333,607
do. oxygen ..	—	—	—	134,091	625,682	1,424,108
Castings ..	60,532	69,702	68,497	63,059	n.a.	n.a.
Czechoslovakia—						
Open hearth ..	5,612,000	5,781,000	6,266,000	6,192,000	6,891,000	7,082,000
Bessemer ..	243,000	231,000	226,000	219,000	230,000	233,000
Electric ..	806,000	919,000	1,026,000	1,067,000	1,123,000	1,147,000
Denmark—						
Ingots, open hearth ..	286,500	291,000	334,500	328,600	362,700	376,300
Castings do. ..	6,800	5,600	4,000	9,000	5,400	6,100
do. electric ..	18,800	21,200	22,500	15,600	21,800	23,000
Finland—						
Ingots ..	241,648	r 262,022	r 288,272	r 289,220	338,000	357,000
Castings ..	11,744	r 10,716	r 10,792	r 14,323	14,000	16,000
France—						
Ingots and castings—						
Bessemer, acid ..	100,128	110,423	99,836	79,742	92,019	87,018
do. basic ..	10,292,741	10,239,699	9,867,543	9,678,178	10,435,836	10,231,772
Open hearth, acid ..	—	—	} 4,848,203	4,698,713	5,100,438	4,699,518
do. basic ..	5,048,899	4,981,810				
Crucible ..	2,185	2,453	2,500	2,086	1,957	1,995
Electric ..	1,470,602	1,541,573	1,502,105	1,501,032	1,648,653	1,746,371
Kaldo, L.D., etc. ..	93,139	416,588	647,828	1,319,554	2,188,870	2,527,471
Of which—						
Ingots ..	16,706,319	16,938,838	16,603,902	16,938,984	19,106,958	18,933,262
Castings ..	301,375	353,708	364,113	340,321	360,815	360,883

(a) Bessemer acid and basic includes V.L.N. and L.D. from 1960, Rotor from 1961 and Kaldo from 1964.

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

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES (cont.)						
Germany (Federal)—						
Ingots—						
Open hearth .. ..	15,674,000	15,052,000	14,693,000	13,724,000	16,482,000	15,479,000
Bessemer, basic .. ..	14,671,000	14,141,000	13,002,000	12,244,000	12,046,000	10,640,000
Electric .. ..	1,707,000	1,836,000	2,035,000	2,150,000	2,451,000	2,557,000
Oxygen .. ..	849,000	1,182,000	1,657,000	2,414,000	5,143,000	6,924,000
Castings—						
Open hearth .. ..	158,000	160,000	117,000	72,000	87,000	78,000
Electric .. ..	433,000	492,000	490,000	454,000	501,000	530,000
Other .. ..	70,000	66,000	51,000	40,000	39,000	32,000
Germany (East)—						
Open hearth .. ..	2,578,800	2,665,200	2,816,400	2,820,200	3,020,900	3,044,300
Bessemer, basic .. ..	373,800	364,400	375,900	369,800	373,500	368,700
Electric .. ..	330,600	340,600	363,700	378,600	396,500	415,500
Other .. ..	1,100	19,800	8,800	—	—	—
Italy—						
Ingots .. ..	7,922,632	8,782,674	9,409,042	9,803,095	9,473,766	12,305,884
Castings .. ..	176,469	197,507	194,302	193,028	164,847	154,444
Luxembourg—						
Bessemer, basic .. ..	3,939,227	3,973,662	3,883,634	3,903,032	4,418,512	4,079,129
Electric .. ..	79,965	74,165	62,976	64,953	68,034	55,665
Norway—						
Ingots .. ..	460,752	468,344	456,552	511,021	580,979	648,096
Castings .. ..	21,780	22,659	23,524	24,000	24,741	27,022
Portugal—						
Ingots—						
L.D. .. ..	—	n.a.	160,918	179,327	203,807	n.a.
Electric .. ..	—	n.a.	3,761	30,230	32,242	n.a.
Castings .. ..	—	n.a.	7,161	9,322	9,654	n.a.
Spain—						
Open hearth and						
Bessemer .. ..	1,624,800	2,013,900	1,832,800	1,824,400	1,663,700	n.a.
Electric .. ..	301,700	250,900	328,400	526,800	532,700	n.a.
Oxygen .. ..	—	—	—	101,700	321,000	n.a.
Sweden—						
Open hearth, acid .. ..	322,185	336,785	347,313	348,458	412,217	} 1,498,000
do. basic .. ..	749,166	864,585	799,583	866,142	989,384	
Bessemer, acid .. ..	33,497	25,295	—	—	—	—
do. basic .. ..	415,636	477,544	438,372	437,336	456,704	367,000
Electric .. ..	1,538,551	1,600,866	1,541,204	1,658,952	1,861,594	1,773,000
Other .. ..	108,310	200,836	427,407	528,077	719,039	1,012,000
U. S. S. R.—						
Open hearth .. ..	54,239,000	59,101,000	63,899,000	66,994,000	70,496,000	n.a.
Bessemer .. ..	1,837,000	1,865,000	1,879,000	1,940,000	1,954,000	n.a.
Electric .. ..	5,728,000	6,201,000	6,710,000	7,346,000	8,043,000	n.a.
Other .. ..	2,457,000	2,467,000	2,613,000	2,679,000	3,198,000	n.a.
of which—						
Ingots .. ..	59,348,000	64,497,000	69,761,000	73,236,000	77,675,000	n.a.
Castings .. ..	4,913,000	5,137,000	5,340,000	5,723,000	6,016,000	n.a.
Yugoslavia—						
Open hearth .. ..	1,301,000	1,371,000	1,413,000	1,369,682	1,459,240	1,515,310
Electric .. ..	118,400	136,800	157,300	193,094	191,439	225,988
South Africa—						
Ingots—						
Open hearth (in-	} 1,755,300	2,112,300	2,234,500	{ 1,656,200	1,675,200	1,638,500
cluding duplex) .. ..						
Oxygen .. ..				{ 675,000	873,700	971,100
Electric .. ..	277,100	278,000	303,100	376,200	405,500	470,700
Castings (a) .. ..	46,700	45,400	62,300	82,000	93,200	106,800

(a) Produced for sale.

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

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
<b>United States—</b>						
<b>Ingots and castings (a)—</b>						
Open hearth, acid ..	360,329	351,584	338,468	354,656	395,298	292,200
do. basic ..	76,753,515	75,096,694	73,730,566	78,961,348	87,191,754	83,809,100
Bessemer .. ..	1,061,782	786,661	718,719	859,517	765,702	523,200
Oxygen .. ..	2,987,639	3,542,105	4,957,765	7,628,641	13,787,666	20,427,400
Electric .. ..	7,481,021	7,735,896	8,047,148	9,750,256	11,320,086	12,324,900
<b>Of which—</b>						
Ingots .. ..	88,450,195	87,346,859	87,631,707	97,395,545	113,261,201	117,138,200
Castings .. ..	194,091	166,081	160,959	158,873	199,305	238,600
<b>Japan—</b>						
Open hearth .. ..	14,807,770	16,702,821	13,074,666	12,001,986	13,634,591	10,003,800
Bessemer, basic ..	2,587,061	5,272,273	8,307,354	11,854,960	17,303,032	22,271,100
Electric .. ..	4,393,909	5,846,815	5,729,176	7,146,967	8,232,965	8,236,100

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

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

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
<b>United Kingdom—</b>						
<b>Pig-iron—</b>						
Forge and foundry ..	83,359	65,833	88,730	20,780	10,877	24,200
Refined .. ..	15,135	20,869	20,082	16,155	7,422	9,200
Other .. ..	47,030	58,375	110,611	49,656	19,922	53,700
<b>Iron and steel powders, shot and sponge</b>						
Spiegeleisen .. ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	18,078	18,907	20,100
Ferro-manganese .. ..	1,621	662	873	76	60	593
Ferro-tungsten .. ..	1,048	1,445	1,584	940	10,036	13,100
Ferro-molybdenum .. ..	245	246	229	1,225	896	1,005
Ferro-titanium .. ..	276	533	552	160	130	300
Ferro-vanadium .. ..	94	19	5	1,024	1,076	1,300
Ferro-niobium and ferro-niobium-tantalum .. ..	97	83	68	3	5	117
Other ferro-alloys .. ..	9,333	2,609	2,810	173	153	215
Ingots, blooms, billets ..	25,611	103,333	85,283	3,240	3,371	2,900
Old and scrap (a) .. ..	17,858	29,636	1,084,785	32,579	81,053	89,700
<b>Channel Islands—</b>						
Scrap .. ..	(c) 3,108	3,320	3,584	4,336	(c) 1,329	(c) 3,066
<b>Malta—</b>						
Scrap .. ..	8,072	11,378	4,276	5,879	9,749	8,935
<b>Kenya—</b>						
Scrap .. ..	—	—	<i>n.a.</i>	2,908	22,562	8,618
<b>Nigeria—</b>						
Scrap .. ..	19,833	17,923	4,551	5,232	10,755	6,110
<b>Rhodesia (d)—</b>						
Pig-iron .. ..	44,814	117,837	201,960	213,277	214,947	211,046
Ferro-alloys .. ..	9,232	8,920	8,078	13,728	22,341	20,990
Ingots, etc. .. ..	13,761	29,410	9,153	184	33,421	22,847
Scrap .. ..	8,990	1,849	10,712	21,376	<i>n.a.</i>	30
<b>Tanzania—</b>						
Scrap .. ..	—	—	—	1,599	8,148	2,317
<b>Barbados—</b>						
Scrap .. ..	—	2,080	—	643	300	<i>n.a.</i>
<b>Jamaica—</b>						
Scrap .. ..	15,406	9,607	1,041	5,048	20	<i>n.a.</i>
<b>Trinidad and Tobago—</b>						
Old and scrap .. ..	14,036	9,081	—	742	3,891	<i>n.a.</i>
<b>Canada—</b>						
Pig-iron .. ..	431,433	537,656	414,215	435,745	527,711	522,210
Ferro-chrome .. ..	4,117	1,466	5,895	2,598	154	183
Ferro-manganese .. ..	651	212	121	9	2,999	3,408
Ferro-silicon .. ..	47,235	43,704	38,615	32,800	41,060	41,453
Other ferro-alloys .. ..	1,002	701	2,971	1,271	214	1,654
Ingots, blooms, billets ..	303,701	291,457	236,238	336,884	394,853	271,220
Old and scrap .. ..	376,293	718,545	349,063	383,919	554,071	214,029
Tin-plate scrap .. ..	32,640	30,509	19,707	21,776	25,033	19,605
<b>Aden—</b>						
Scrap .. ..	3,194	3,690	39	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
<b>Hong Kong—</b>						
Old and scrap .. ..	r 238,519	r 203,791	r 103,988	r 132,388	148,947	126,773
Tinplate scrap .. ..	r 3,141	r 2,544	r 4,059	r 3,462	4,699	4,027
<b>India (b)—</b>						
Pig-iron .. ..	98,720	72,594	19,011	—	—	6
Ferro-manganese .. ..	47,073	55,406	12,093	21,581	85,398	55,532
Ingots, blooms, billets ..	67,479	22,718	—	—	—	2,115
Old and scrap .. ..	317,222	263,371	176,325	377,863	442,780	439,378

(a) Excluding ships intended for breaking up as follows (gross tonnage): 1960—54,696; 1961—55,669; 1962—126,362; 1963—105,581; 1964—67,390; 1965—102,569

(b) Years ended March 31 following that stated. (d) Figures for the years 1960 to 1963 relate to Rhodesia and Nyasaland.

(c) Jersey only.

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

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
<i>(cont.)</i>						
Malaya—						
Pig-iron .. ..	127	53	656	—	3	—
Ingots, slabs etc. .. ..	120	283	1	—	1	351
Scrap .. ..	74,570	70,279	32,915	51,365	49,718	20,928
Tin-plate scrap .. ..	1,959	3,518	3,124	2,316	1,164	1,285
Australia (a)—						
Pig-iron .. ..	65,101	213,022	225,647	159,359	73,408	59,607
Ferro-alloys .. ..	14	16	48	8	8	131
Ingots, blooms, billets .. ..	21,431	2,038	159,248	23,885	20,291	5,843
Old and scrap .. ..	176,169	205,870	151,038	196,453	336,041	353,963
Tin-plate scrap .. ..	18,221	15,753	14,819	22,629	15,576	14,518
New Zealand—						
Scrap .. ..	55,221	14,976	<i>n.a.</i>	(a) 285	(a) 578	(a) 529
Irish Republic—						
Old and scrap .. ..	28,626	17,880	14,226	<i>r</i> 26,032	44,875	34,558
<b>OTHER COUNTRIES</b>						
Austria—						
Pig-iron .. ..	36,790	9,990	2,167	1,022	729	49,898
Ferro-silicon .. ..	251	2,619	2,380	2,361	3,354	3,659
Other ferro-alloys .. ..	3,377					
Ingots and blooms .. ..	58,598	59,887	25,799	11,540	3,626	1,692
Scrap .. ..	3,365	4,462	4,427	3,386	3,825	3,686
Belgium-Luxemburg						
E.U.—						
Pig-iron .. ..	58,940	43,894	53,204	137,478	64,931	78,582
Spiegeleisen .. ..	3,290	4,253	4,163	1,964	4,080	1,076
Ferro-manganese .. ..	16,017	16,644	22,946	29,017	36,731	43,021
Other ferro-alloys .. ..	5,083	7,793	8,264	5,467	1,468	2,305
Ingots .. ..	82,689	50,115	42,630	45,910	41,290	7,436
Blooms, billets, etc. .. ..	827,505	679,312	456,788	400,985	647,265	747,398
Old and scrap .. ..	439,159	329,671	356,644	512,353	161,640	165,751
Denmark—						
Blooms, billets, etc. .. ..	2,112	1,756	2,143	3,742	3,329	3,085
Old and scrap .. ..	24,033	20,127	27,501	38,174	48,868	41,038
Finland—						
Pig-iron .. ..	32,205	40,818	106,425	229,944	473,189	784,588
Ferro-alloys .. ..	—	—	—	16,844	39	—
Blooms, billets, etc. .. ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	5,959
Old and scrap .. ..	2,733	1,950	3,055	2,974	4,173	3,036
France—						
Pig-iron .. ..	228,551	254,134	218,112	149,744	99,370	98,501
Spiegeleisen .. ..	12,036	14,142	17,332	12,733	15,821	16,872
Ferro-manganese .. ..	132,693	156,294	152,040	147,755	192,878	200,442
Ferro-silicon .. ..	24,923	30,275	18,534	18,677	23,653	20,409
Ferro-chrome .. ..	18,526	16,218	15,070	16,112	15,980	18,175
Other ferro-alloys .. ..	3,462	3,193	4,682	7,074	8,428	13,225
Ingots .. ..	81,497	68,355	12,875	18,264	130,989	79,475
Blooms, billets, etc. .. ..	138,312	185,893	147,177	345,805	513,941	354,357
Old and scrap .. ..	1,203,386	1,142,799	1,171,229	1,176,547	1,478,046	1,802,489
Germany (Federal)—						
Pig-iron .. ..	654,027	825,357	882,775	796,781	636,879	421,683
Spiegeleisen .. ..	(b)	9,519	16,771	17,619	10,034	9,214
Ferro-alloys .. ..	32,020	41,781	43,387	77,314	74,149	72,023
Ingots, blooms, billets .. ..	1,014,155	1,353,355	1,015,174	1,392,207	1,380,083	1,516,924
Old and scrap .. ..	1,202,068	1,442,667	1,188,214	1,278,191	1,287,500	1,929,245
Hungary—						
Pig iron .. ..	76,075	33,977	27,050	14,588	61,754	81,531
Iceland—						
Scrap .. ..	5,466	4,970	2,645	<i>n.a.</i>	3,223	1,219

(a) Years ended June 30 of that stated.

(b) Included with pig-iron.



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

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES						
(cont.)						
Italy—						
Pig-iron .. ..	1,390	198	31	143	51	203
Spiegeleisen .. ..	325	240	101	8	37	516
Ferro-manganese .. ..	3,123	2,352	1,276	2,008	7,466	6,969
Ferro-molybdenum .. ..	(a)	(a)	(a)	(a)	12	1
Ferro-silicon .. ..	4,562	5,435	3,723	1,682	572	1,500
Ferro-silico-manganese .. ..	1,444	246	290	59	9	38
Ferro-chrome .. ..	7,488	10,797	2,276	1,942	4,119	7,011
Ferro-vanadium .. ..	(a)	(a)	(a)	(a)	39	18
Other ferro-alloys .. ..	2	18	2	20	40	2
Ingots .. ..	120,944	116,160	98,162	100,397	109,028	84,723
Blooms, billets, etc. .. ..	3,526	7,709	10,308			
Scrap .. ..	1,324	1,054	885			
				1,709	4,700	1,798
Netherlands—						
Pig-iron .. ..	158,926	162,858	200,698	142,883	93,188	83,196
Sponge iron .. ..	83	113	421	154	209	80
Ferro-alloys .. ..	157	434	209	333	257	221
Ingots, blooms and billets .. ..	675	4,678	8,286	34,074	81,557	193,728
Old and scrap .. ..	326,392	338,507	230,706	277,612	415,942	442,971
Norway—						
Pig-iron .. ..	108,432	117,957	132,985	172,507	121,942	135,528
Ferro-chrome .. ..	34,097	21,252	16,797	27,043	33,672	30,384
Ferro-manganese .. ..	50,497	47,360	45,844	59,499	72,177	100,180
Ferro-silicon .. ..	154,976	159,373	133,763	151,627	215,382	236,363
Ferro-silico-manganese .. ..	80,466	84,891	70,570	83,022	105,999	116,953
Other ferro-alloys .. ..	9,536	4,348	3,540	6,550	10,244	6,694
Ingots, blooms, billets .. ..	55,405	25,457	48,119	86,990	103,908	104,188
Old and scrap .. ..	4,582	5,513	2,352	4,574	8,661	8,043
Poland—						
Pig-iron .. ..	1,566	2,077	27,500	57,576	15,200	1,118
Ferro-alloys .. ..	7,822	4,337	3,900	3,536	6,239	4,334
Portugal—						
Pig-iron .. ..	24,049	14,795	10,017	19,090	17,309	51
Ferro-alloys .. ..	2,824	987	2,398	3,464	5,627	4,316
Old and scrap .. ..	25,761	16,393	14,782	18,089	56,817	30,389
Spain—						
Pig-iron .. ..	422,245	283,134	142,339	148,192	145,569	107,969
Ferro-silicon .. ..	8,209	11,665	9,700	9,854	7,888	3,123
Other ferro-alloys .. ..	4,595	5,783	5,602	9,816	9,680	6,477
Ingots, blooms, billets .. ..	376,065	234,473	62,319	49,273	49,165	n.a.
Sweden—						
Pig-iron .. ..	43,938	69,721	34,413	56,000	37,134	30,208
Sponge iron .. ..	25,603	27,121	28,485	35,577	44,127	62,213
Ferro-manganese .. ..	1,650	2,540	2,537	4,183	2,913	3,130
Ferro-silicon .. ..	955	5,785	4,549	2,825	4,667	1,155
Ferro-silico-manganese .. ..	25	15	25	20		
Ferro-chrome .. ..	15,952	18,656	17,057	22,613	20,231	18,685
Ferro-tungsten .. ..	126	20	104	169	71	86
Other ferro-alloys .. ..	1,727	1,602	2,902	2,318	2,321	2,341
Ingots .. ..	250	361	2,623	103,498	118,742	99,725
Blooms, billets, etc. .. ..	98,275	143,597	106,289			
Old and scrap .. ..	12,541	13,868	11,288			
				11,616	21,469	18,443
Switzerland—						
Pig-iron and steel, etc. .. ..	392	346	507	437	—	2
Ferro-alloys .. ..	8,979	11,590	8,929	13,911	15,086	12,807
Old and scrap .. ..	5,729	6,155	6,971	14,622	30,562	32,174

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

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

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES						
(cont.)						
U.S.S.R.—						
Pig iron .. .. .	1,772,400	1,785,400	2,238,300	2,498,100	3,147,900	3,601,300
Ferro-manganese .. ..	50,000	50,800	54,800	56,000	58,700	66,200
Ferro-silicon .. .. .	57,200	55,900	53,300	13,900	65,600	82,700
Other ferro-alloys .. ..	45,300	46,300	36,900	61,000	22,200	30,900
Steel ingots and billets .. ..	759,000	804,600	829,700	782,600	802,300	837,600
Scrap .. .. .	167,400	219,100	221,200	266,800	464,200	555,600
Yugoslavia—						
Pig-iron .. .. .	—	4,206	59	—	—	—
Spiegeleisen .. .. .	1,008	1,278	167	—	—	—
Ferro-chrome .. .. .	8,822	7,303	5,763	7,184	6,906	9,948
Ferro-manganese .. .. .	10,925	7,037	7,693	8,130	4,631	3,038
Silico-manganese .. .. .	1,162	2,504	1,794	4,564	1,812	2,105
Ferro-silicon .. .. .	9,322	8,105	9,561	16,168	7,191	10,198
Steel ingots .. .. .	—	—	50,507	27,397	46	—
Scrap .. .. .	1,166	11,187	2,757	682	281	2,270
Algeria—						
Old and scrap .. .. .	51,597	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Morocco—						
Old and scrap .. .. .	52,445	39,355	20,138	27,152	30,884	31,634
Mozambique—						
Scrap .. .. .	9,947	7,607	—	4,701	8,479	8,724
South Africa—						
Pig-iron .. .. .	220,252	244,138	212,595	215,365	348,027	<i>n.a.</i>
Ferro-manganese .. .. .	103,511	130,214	104,861	77,444	120,310	<i>n.a.</i>
Other ferro-alloys .. .. .	27,056	28,298	15,131	38,322	52,988	<i>n.a.</i>
Ingots, blooms, billets .. ..	19,551	17,268	30,469	2,889	3,493	<i>n.a.</i>
Sudan—						
Scrap .. .. .	—	4,823	—	1,705	2,021	1,653
Tunisia—						
Scrap .. .. .	29,811	19,732	18,238	7,978	10,926	7,894
Mexico—						
Ferro-alloys .. .. .	—	2,574	2,795	1,260	—	—
United States—						
Pig-iron .. .. .	99,797	371,132	137,839	62,637	157,193	25,201
Spiegeleisen .. .. .	132	469	638	1,050	701	<i>n.a.</i>
Ferro-phosphorus .. .. .	42,765	26,839	12,616	36,930	145,684	71,349
Ferro-manganese .. .. .	670	419	3,673	605	3,485	2,922
Ferro-chrome .. .. .	13,918	7,004	2,745	2,102	8,957	10,716
Ferro-molybdenum .. .. .	190	160	85	107	779	1,001
Ferro-vanadium .. .. .	144	107	179	164	92	197
Ferro-silicon .. .. .	4,912	31,040	3,662	2,795	5,165	4,094
Ferro-tungsten .. .. .	—	—	5	1	—	—
Ferro-titanium .. .. .	219	189	116	188	483	7,539
Other ferro-alloys .. .. .	3,433	4,321	308	384	568	
Steel ingots, slabs, blooms, billets and sheet bars .. .. .	66,539	123,254	225,596	271,889	882,731	605,542
Scrap (a) .. .. .	7,086,431	8,447,727	4,499,930	5,681,801	6,948,033	6,619,765
Argentina—						
Ingots, blooms, billets .. ..	237	3,296	1,633	43,876	11,725	4,142
Brazil—						
Pig-iron .. .. .	14,369	37,862	—	—	146,601	99,696
Ferro-manganese .. .. .	—	49	4,937	—	—	7,145
Chile—						
Pig-iron .. .. .	295	—	364	—	<i>n.a.</i>	<i>n.a.</i>
Ferro-manganese .. .. .	2,971	3,673	13,509	10,818	<i>n.a.</i>	<i>n.a.</i>
Formosa—						
Pig-iron .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	3,160	4,461	5,851
Ferro-manganese .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,548	168	132
Ferro-silicon .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	2,196	1,277	1,138

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

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

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES (cont.)						
Indonesia—						
Scrap .. .. .	6,428	8,312	984	1,673	n.a.	n.a.
Israel—						
Scrap .. .. .	515	1,739	1,342	1,199	1,418	n.a.
Japan—						
Pig-iron .. .. .	148	235	1,867	288	514	3,444
Ferro-chrome .. .. .	14,533	15,911	12,288	7,840	3,800	23,358
Ferro-manganese .. .. .	38,914	14,249	21,091	14,158	8,724	15,072
Ferro-silicon .. .. .	405	18	2,646	557	157	993
Ferro-silico-manganese .. .. .	2,684	772	6,463	3,701	427	712
Other ferro-alloys .. .. .	458	794	648	767	738	1,405
Ingots, blooms, billets .. .. .	692	1,032	28,913	56,443	57,994	451,273
Scrap .. .. .	23	95	663	1,715	4,239	2,757
Korea (South)—						
Scrap .. .. .	—	500	445	90	30	n.a.
Lebanon—						
Scrap .. .. .	9,683	3,796	n.a.	154	795	n.a.
Philippine Republic—						
Scrap .. .. .	—	—	—	492	—	n.a.
Thailand—						
Scrap .. .. .	2,874	4,605	576	2,847	2,526	4,769
Turkey—						
Pig iron .. .. .	9,694	10,039	n.a.	n.a.	—	492
Ingots, blooms, billets .. .. .	9,842	34,595	n.a.	n.a.	n.a.	n.a.
Old and scrap .. .. .	1,041	5,388	584	276	133	492

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

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—						
Pig-iron—						
Charcoal .. .. .	942	1,492	808	} 22,234	88,608	70,000
Forge and foundry .. .. .	2,036	4,080	1,436			
Hematite .. .. .	36,300	17,720	59,088	122,336	166,869	160,457
Basic .. .. .	178,019	4,922	66,760	42,139	77,854	82,900
Other (vanadium-titanium pig-iron produced in electric furnace)	4,092	4,436	3,756	2,558	2,395	2,225
Sponge-iron .. .. .	5,799	5,519	5,693	7,769	9,856	9,345
Spiegeleisen .. .. .	} 35,375	41,830	44,206	} 345	35	200
Ferro-manganese .. .. .						
Ferro-silicon .. .. .	95,967	85,234	75,804	87,825	62,037	80,770
Ferro-silicon-chrome .. .. .	3,595	2,984	3,043	3,848	4,473	4,395
Ferro-chrome .. .. .	46,606	42,358	24,510	34,458	47,254	60,994
Ferro-vanadium .. .. .	—	71	24	59	85	252
Silico-manganese .. .. .	29,185	26,497	25,056	27,297	35,837	32,728
Other ferro-alloys .. .. .	1,611	2,144	2,016	2,578	4,339	6,805
Iron and steel ingots, etc.	30,551	28,369	4,627	556	15,019	13,200
Blooms, billets, slabs—						
Iron .. .. .	202	—	127	1	11,089	} 16,000
Steel .. .. .	222,574	70,757	151,719	255,428	430,383	
Old and scrap (a) .. .. .	277,609	22,648	4,524	4,201	5,004	72,443
Malta—						
Ingots, etc. .. .. .	10	—	306	1,093	2,590	22
Ghana—						
Pig-iron .. .. .	n.a.	382	191	288	231	241
Ferro-manganese .. .. .	—	24	—	—	21	25
Ingots, blooms, etc. .. .. .	n.a.	13	27	22	2,031	3,098
Kenya—						
Pig-iron .. .. .	862	1,387	493	493	} 619	997
Ferro-alloys .. .. .	22	10	2	37		
Ingots, blooms, etc. .. .. .	1,768	1,495	1,496	2,554	33	82
Mauritius—						
Pig-iron, ingots, etc. .. .. .	40	34	62	33	43	28
Rhodesia (b)—						
Pig-iron, ingots, etc. .. .. .	1,359	601	1,491	42	371	262
Ferro-alloys .. .. .	1,475	1,353	1,820	1,904	1,164	1,370
Tanzania—						
Pig-iron .. .. .	75	101	94	94	} 240	807
Ferro-alloys .. .. .	666	394	723	860		
Ingots, blooms, etc. .. .. .	310	231	163	282	n.a.	—
Uganda—						
Pig-iron .. .. .	—	—	45	50	} 86	518
Ferro-alloys .. .. .	—	—	192	162		
Ingots, blooms, etc. .. .. .	80	133	338	182	n.a.	73
Zambia—						
Pig-iron .. .. .	n.a.	n.a.	n.a.	n.a.	2,472	6,800
Ferro-alloys .. .. .	n.a.	n.a.	n.a.	n.a.	389	1,282
Ingots .. .. .	n.a.	n.a.	n.a.	n.a.	33	1
Canada—						
Pig-iron .. .. .	7,662	308	9,023	15,751	14,188	29,887
Sponge iron .. .. .	513	667	795	1,096	2,046	1,673
Ferro-manganese and spiegeleisen .. .. .	13,835	10,772	13,332	20,211	19,491	30,859
Ferro-chrome .. .. .	(c)	(c)	(c)	(c)	9,359	13,693
Ferro-silicon .. .. .	3,455	3,846	5,332	3,415	3,065	5,589
Ferro-tungsten .. .. .	438	231	127	279	77	158
Ferro-vanadium .. .. .	(c)	(c)	(c)	(c)	232	290
Silico-manganese and silico-spiegel .. .. .	2,112	1,940	2,434	2,102	1,557	703

(a) Excluding ships intended for breaking up as follows (gross tonnage): 1960—284,532; 1961—37,407; 1962—16,413; 1963—14,956; 1964—13,511; 1965—25,316.

(b) Figures for the years 1960 to 1963 relate to Rhodesia and Nyasaland.

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

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

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES (cont.)						
Canada (cont.)						
Other ferro-alloys ..	8,613	5,939	8,468	8,144	1,334	2,565
Ingots, blooms, billets ..	27,396	5,144	5,595	3,743	5,715	26,433
Scrap .. .. .	524,877	313,878	400,618	580,971	766,296	911,427
Jamaica—						
Pig-iron .. .. .	102	112	76	210	587	238
Trinidad and Tobago—						
Pig-iron .. .. .	11	33	11	14	11	} 190
Ingots, etc. .. .. .	685	141	733	930	275	
British Guiana—						
Pig-iron, ingots, etc. ..	1,019	767	65	n.a.	229	1,369
Ceylon—						
Pig-iron .. .. .	350	695	586	519	1,091	777
Ingots, blooms, billets etc. .. .. .	2,425	3,809	4,385	2,142	3,714	1,302
Cyprus—						
Pig-iron .. .. .	33	—	50	199	145	59
Ingots, etc. .. .. .	629	901	714	961	972	778
Hong Kong—						
Pig-iron .. .. .	r 6,156	r 1,957	r 5,260	r 9,576	7,080	9,328
Ingots, blooms, billets ..	r 1,360	r 627	r 4,619	r 2,982	813	7,377
Old and scrap .. .. .	r 22,077	r 23,457	r 40,464	r 39,974	58,872	90,012
Tinplate scrap .. .. .	r 13,885	r 10,707	r 11,922	r 14,347	16,992	15,780
India(b)—						
Pig-iron .. .. .	10,870	1,672	826	207	104,690	75,161
Ingots, blooms, billets ..	35,408	16,958	76,647	50,397	53,069	40,970
Ferro-chrome .. .. .	410	803	656	477	1,280	861
Ferro-manganese .. .. .	155	519	453	677	462	534
Ferro-silicon .. .. .	3,637	5,614	534	118	403	97
Other ferro-alloys .. .. .	1,435	922	760	2,486	1,318	628
Old and scrap .. .. .	12,983	6,669	1,710	1,213	686	4,219
Malaya—						
Pig-iron .. .. .	3,958	4,277	9,780	14,579	9,720	13,389
Ferro-alloys .. .. .	11	30	38	107	155	428
Ingots, slabs, etc. .. .. .	3,543	3,673	6,204	8,056	6,218	17,869
Scrap .. .. .	1,426	718	1,752	1,009	1,084	3,960
Tinplate scrap .. .. .	12,568	12,563	13,985	14,804	12,291	14,387
Pakistan—						
Pig-iron .. .. .	63,876	42,920	76,343	50,714	64,364	n.a.
Ferro-alloys .. .. .	359	1,145	930	573	289	n.a.
Ingots, blooms, billets ..	39,750	228,214	229,705	226,273	340,786	n.a.
Old and scrap .. .. .	145	518	49	872	972	n.a.
Sabah—						
Ingots, etc. .. .. .	553	322	730	1,954	248	116
Australia—						
Ferro-manganese .. .. .	30,340	40,276	8,723	12,897	5,893	9,896
Ferro-chrome .. .. .	5,714	4,133	1,974	2,713	2,993	5,821
Ferro-molybdenum .. .. .	219	283	63	149	249	279
Ferro-silicon .. .. .	3,905	9,677	3,798	9,558	7,630	13,002
Other ferro-alloys .. .. .	1,434	1,590	1,660	3,461	2,506	3,546
Ingots and billets, etc.(c)	7,504	410	(a) 191	117	245	54,195
Scrap (c) .. .. .	(a) 221	(a) 2,466	15	81	224	527
New Zealand—						
Pig-iron .. .. .	8,107	9,238	8,896	(c) 7,235	(c) 6,336	(c) 9,789
Ferro-alloys .. .. .	135	263	709	(c) 266	(c) 352	(c) n.a.
Billets and blooms .. .. .	157	2,762	6,729	(c) 2,817	(c) 47	(c) 112

(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	1960	1961	1962	1963	1964	1965
<b>Irish Republic—</b>						
Pig-iron and sponge iron .. .. .	3,150	3,641	3,354	8,507	27,158	20,965
Ferro-alloys .. .. .	655	573	491	541	950	1,053
Ingots, blooms, billets, etc. .. .. .	3,601	5,658	9,349	1,403	20,096	51,027
<b>OTHER COUNTRIES</b>						
<b>Albania—</b>						
Pig-iron .. .. .	1,837	2,185	4,960	2,904	<i>n.a.</i>	<i>n.a.</i>
<b>Austria—</b>						
Pig-iron .. .. .	156,408	67,021	35,299	95,090	188,679	230,527
Spiegeleisen .. .. .	1,728	1,698	2,255	2,331	2,654	3,063
Ferro-manganese .. .. .	9,473	8,679	8,481	9,407	11,784	11,230
Ferro-silicon .. .. .	10,099	8,564	7,787	7,825	8,410	9,151
Other ferro-alloys .. .. .	19,324	15,815	14,285	16,300	20,097	25,027
Ingots and blooms .. .. .	10,197	3,212	375	8,521	5,587	27,745
Scrap .. .. .	119,810	78,267	41,119	52,361	141,326	106,150
<b>Belgium-Luxemburg</b>						
<b>E. U.—</b>						
Pig-iron .. .. .	364,542	379,182	418,972	465,048	281,271	227,560
Sponge-iron .. .. .	752	1,064	2,094	40	30	572
Spiegeleisen .. .. .	7,099	16,143	22,537	19,010	18,284	13,768
Ferro-chrome, etc. .. .. .	4,258	4,161	4,672	4,279	6,495	6,014
Ferro-manganese .. .. .	58,558	52,644	56,141	37,914	74,556	67,986
Ferro-silico-manganese .. .. .	3,378	3,766	3,578	3,601	4,488	7,523
Ferro-molybdenum .. .. .	482	532	498	297	379	152
Ferro-silicon .. .. .	20,333	20,881	15,636	14,311	17,808	20,028
Ferro-tungsten .. .. .	80	234	132	82	57	14
Other ferro-alloys .. .. .	943	896	744	1,115	1,771	1,034
Ingots .. .. .	26,439	57,914	14,344	25,175	196,335	145,147
Blooms, billets, etc. .. .. .	52,486	32,634	81,943	125,637	167,059	89,124
Old and scrap .. .. .	192,680	193,644	120,620	85,966	61,962	56,747
<b>Czechoslovakia—</b>						
Pig iron .. .. .	199,000	175,000	250,000	186,000	116,000	116,000
<b>Denmark—</b>						
Pig-iron .. .. .	84,814	74,175	108,880	80,361	117,078	106,421
Ferro-chrome .. .. .	450	437	413	308	347	414
Ferro-manganese, etc. .. .. .	2,638	2,428	2,209	2,932	2,896	2,760
Ferro-silicon .. .. .	3,964	3,426	2,832	2,557	3,756	3,328
Other ferro-alloys .. .. .	522	259	97	118	37	84
Ingots, blooms, billets .. .. .	3,672	20,625	11,656	12,163	36,362	65,813
Old and scrap .. .. .	977	1,289	905	1,172	2,212	271
<b>Finland—</b>						
Pig-iron .. .. .	2,927	2,682	3,379	6,945	13,063	1,241
Billets .. .. .	135,217	103,657	78,928	58,989	36,024	59,495
Ferro-manganese and spiegeleisen .. .. .	3,338	2,194	2,545	2,598	1 530	1,789
Other ferro-alloys .. .. .	6,997	7,019	7,026	7,266	5,576	9,056
Old and scrap .. .. .	94,006	101,353	126,029	81,072	138,641	136,709
<b>France—</b>						
Pig-iron—hematite .. .. .	115,784	148,191	138,468	169,837	158,757	90,765
do. other .. .. .	33,754	28,544	23,837	41,134	30,815	22,658
Sponge-iron .. .. .	114	667	2,163	2,275	2,674	3,685
Spiegeleisen .. .. .	7,317	2,151	2,022	2,658	2,046	1,387
Ferro-manganese .. .. .	6,333	7,276	7,626	9,963	10,098	8,819
Ferro-silicon .. .. .	81	1	74	915	545	356
Ferro-chrome .. .. .	285	361	942	889	1,218	449
Ferro-nickel .. .. .	23,248	20,957	12,238	19,587	22,349	32,388
Other ferro-alloys .. .. .	154	674	1,073	1,716	3,083	3,672
Ingots .. .. .	86,139	80,314	126,196	145,552	154,117	109,695
Blooms, billets, etc. .. .. .	637,978	680,485	495,074	495,417	499,818	448,246
Old and scrap .. .. .	487,660	730,655	361,304	568,078	575,246	485,875

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

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Germany (Federal)—						
Pig-iron .. ..	387,415	319,545	586,139	457,467	253,542	124,034
Spiegeleisen .. ..	(b)	15,223	14,930	13,697	16,002	9,859
Ferro-alloys .. ..	224,964	242,207	205,761	207,646	274,844	276,378
Rough blooms, ingots, bars, etc. .. ..	563,425	279,656	229,154	662,770	1,052,298	826,739
Old and scrap .. ..	1,008,926	926,736	611,407	628,197	1,736,761	1,070,560
Germany (East)—						
Pig-iron .. ..	696,400	554,200	619,300	647,300	779,700	757,200
Greece—						
Pig-iron .. ..	13,658	25,346	43,833	28,671	15,128	26,246
Ferro-alloys .. ..	543	737	722	836	1,170	1,425
Ingots, blooms, slabs, etc. .. ..	104,174	74,602	102,482	69,276	41,875	70,669
Old and scrap .. ..	n.a.	9,566	5,023	534	1,100	1,154
Hungary—						
Pig iron .. ..	41,767	38,239	100,939	87,394	76,289	103,000
Ferro-chrome .. ..	2,260	3,419	4,035	5,632	4,215	4,556
Ferro-manganese .. ..	6,649	7,621	10,485	11,208	11,651	11,774
Ferro-silicon .. ..	2,828	1,445	2,087	2,466	2,647	3,024
Other ferro-alloys .. ..	153	368	422	355	343	n.a.
Ingots .. ..	207,816	173,756	323,002	366,817	370,803	n.a.
Italy—						
Pig-iron .. ..	689,614	870,005	783,680	876,391	526,651	641,875
Spiegeleisen .. ..	6,778	12,335	13,201	19,064	6,524	5,223
Ferro-chrome .. ..	15,091	14,157	10,198	14,753	16,710	14,673
Ferro-manganese .. ..	27,526	30,620	42,949	53,853	53,118	77,451
Ferro-molybdenum .. ..	(a)	(a)	(a)	(a)	453	616
Ferro-silicon .. ..	1,492	1,420	6,122	7,386	7,221	9,554
Ferro-silico-manganese .. ..	1,991	2,913	2,670	5,535	3,203	5,914
Ferro-titanium .. ..	286	507	457	401	525	866
Ferro-tungsten .. ..	116	311	185	129	107	96
Ferro-vanadium .. ..	(a)	(a)	(a)	(a)	179	334
Other ferro-alloys .. ..	1,033	1,024	1,484	1,672	1,007	2,708
Ingots .. ..	213,500	77,703	73,169	712,099	1,365,092	843,731
Blooms, billets, etc. .. ..	397,059	669,605	354,908	3,783,838	3,099,701	4,520,086
Old and scrap .. ..	3,181,660	3,345,502	3,902,135			
Netherlands—						
Pig-iron .. ..	22,704	13,610	13,063	31,940	84,425	32,112
Sponge iron .. ..	1,627	1,106	1,542	1,887	1,730	2,144
Spiegeleisen .. ..	6,199	935	483	1,075	708	458
Ferro-manganese .. ..	12,807	14,210	8,297	12,009	16,649	19,824
Ferro-chrome .. ..	499	302	438	396	820	2,207
Ferro-silicon .. ..	3,797	5,249	4,792	4,556	5,964	6,922
Ferro-silico-manganese .. ..	452	896	405	282	372	252
Ferro-molybdenum .. ..	46	51	99	56	50	87
Other ferro-alloys .. ..	564	984	1,476	1,018	1,142	1,464
Ingots, blooms, billets .. ..	164,442	114,113	57,835	257,322	219,732	134,003
Old and scrap .. ..	94,016	36,956	81,097	88,131	42,920	96,763
Norway—						
Pig-iron .. ..	9,944	16,813	8,352	10,036	8,679	12,100
Ferro-alloys .. ..	168	4,816	317	212	274	2,101
Ingots, blooms, billets .. ..	2,459	11,757	8,376	76,022	77,808	80,932
Old and scrap .. ..	14,055	52,430	43,490	33,398	26,885	10,572
Poland—						
Pig-iron .. ..	13,262	82,389	1,000	63,186	308,500	780,541
Ferro-alloys .. ..	3,287	2,126	1,000	1,884	2,504	1,819
Portugal—						
Iron and steel ingots .. ..	156	1,113	1,223	224	131	1,105
Old and scrap .. ..	3,656	1,176	1,108	1,340	1,371	4,597
Roumania—						
Ferro-alloys .. ..	24,900	27,300	34,800	33,300	42,300	51,800

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

(b) Included with pig-iron.

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

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
<b>Spain—</b>						
Pig-iron .. ..	715	1,470	3,670	3,204	1,801	<i>n.a.</i>
Ferro-manganese .. ..	140	1,421	1,397	1,483	1,610	1,558
Other ferro-alloys .. ..	816	1,911	2,670	3,468	5,252	5,322
Ingots and blooms .. ..	509	278	172,545	138,083	271,775	<i>n.a.</i>
Old and scrap .. ..	113,583	242,981	301,751	145,188	303,755	423,961
<b>Sweden—</b>						
Pig-iron .. ..	212,019	128,436	178,431	185,024	225,753	330,193
Sponge iron .. ..	2,005	4,466	478	854	—	—
Spiegeleisen .. ..	118	139	100	200	167	492
Ferro-manganese .. ..	6,138	10,806	9,982	12,170	12,347	16,052
Ferro-chrome .. ..	13,164	7,288	3,060	5,059	7,516	23,407
Ferro-silicon and ferro-silico-manganese .. ..	8,989	9,496	9,628	14,631	11,984	15,430
Ferro-tungsten .. ..	411	396	260	256	402	693
Other ferro-alloys .. ..	5,273	3,689	1,289	3,568	6,775	12,770
Blooms, billets, etc. .. ..	24,942	22,352	4,814	6,862	5,497	23,361
Old and scrap .. ..	297,070	163,907	28,946	121,059	235,680	244,348
<b>Switzerland—</b>						
Pig-iron .. ..	57,284	74,463	81,618	63,997	53,483	61,656
Ferro-alloys .. ..	9,139	10,718	9,118	13,019	12,798	12,971
Ingots, blooms, billets .. ..	157,509	217,092	278,244	299,047	214,904	185,767
Old, filings and scrap .. ..	44,002	17,997	37,900	10,998	5,307	4,923
<b>U.S.S.R.—</b>						
Pig-iron .. ..	205,100	132,100	138,800	226,000	192,300	145,600
Ferro-alloys .. ..	13,200	16,000	12,200	12,200	2,900	5,900
Ingots .. ..	<i>n.a.</i>	<i>n.a.</i>	121,800	55,300	76,000	30,100
<b>Yugoslavia—</b>						
Pig-iron .. ..	64,292	83,580	112,468	78,791	187,952	221,336
Ferro-alloys .. ..	1,172	1,042	1,030	1,460	1,449	1,971
Ingots .. ..	33,382	18,651	3,329	20,302	3,723	26,078
Scrap .. ..	63,072	123,102	78,421	48,026	118,572	97,495
<b>Algeria—</b>						
Pig-iron .. ..	403	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Spiegeleisen and ferro-alloys .. ..	898	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ingots, blooms, billets .. ..	13,858	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Old and scrap .. ..	1,456	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
<b>Egypt—</b>						
Pig-iron and spiegeleisen .. ..	19,619	39,933	121,231	49,158	46,253	129,182
Ferro-alloys .. ..	2,049	2,371	4,680	5,021	3,751	7,277
Ingots, billets, etc. .. ..	295	2,950	16,851	<i>n.a.</i>	105,045	40,038
Scrap .. ..	4,783	8,088	26,244	50,962	43,653	29,767
<b>Morocco—</b>						
Pig-iron .. ..	824	901	863	1,408	1,046	880
Ferro-alloys .. ..	135	168	189	232	222	289
Scrap, etc. .. ..	1,608	600	409	342	44	75
<b>South Africa—</b>						
Pig-iron and steel ingots .. ..	689	307	148	359	<i>n.a.</i>	<i>n.a.</i>
Ferro-silicon .. ..	627	447	453	843	1,822	<i>n.a.</i>
Other ferro-alloys .. ..	189	379	417	141	234	<i>n.a.</i>
<b>Sudan—</b>						
Crude iron and steel .. ..	18,454	17,918	49,806	<i>n.a.</i>	<i>n.a.</i>	56
<b>Tunisia—</b>						
Pig-iron .. ..	118	100	120	99	480	605
Old and scrap .. ..	163	59	12	545	103	104
<b>Honduras—</b>						
Ingots, blooms, etc. .. ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	950	1,865	39,527
<b>Mexico—</b>						
Pig-iron .. ..	—	429	—	38	546	<i>n.a.</i>
Ferro-manganese .. ..	158	106	97	530	424	} 1,531
Other ferro-alloys .. ..	1,673	1,446	1,415	1,413	2,547	
Ingots, blooms, billets .. ..	2,468	10	7	1	1	<i>n.a.</i>



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

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Mexico <i>(cont.)</i> —						
Scrap .. .. .	371,683	351,553	269,289	142,531	696,494	} 774,394
Tin-plate scrap.. ..	12,184	8,942	12,348	15,163	13,108	
Salvador—						
Ingots, blooms, billets	1,218	2,037	47	337	1,378	5,326
Scrap .. .. .	321	154	411	401	106	667
United States—						
Pig-iron .. .. .	295,399	336,768	446,437	576,191	657,564	787,524
Ferro-chrome .. .. .	44,096	24,834	32,428	25,931	23,321	49,216
Ferro-manganese .. .. .	107,341	198,157	112,156	132,705	189,847	229,767
Ferro-silicon .. .. .	15,954	12,259	14,580	13,055	11,751	14,726
Ferro-titanium .. .. .	74	163	107	37	25	15
Ferro-tungsten .. .. .	100	191	294	487	108	172
Sponge iron .. .. .	4,299	3,928	5,126	4,338	11,138	15,292
Bar-iron, slabs, blooms, etc. .. .. .	65	54	189	237	222	} 185,078
Steel ingots, blooms, etc. .. .. .	60,502	159,746	152,326	232,460	307,822	
Scrap .. .. .	123,828	210,134	215,016	174,449	231,409	164,951
Tin-plate scrap.. .. .	36,352	29,499	18,832	19,486	20,143	16,954
Argentina—						
Pig-iron .. .. .	129,223	41,270	12,035	35	22,937	139,686
Ferro-manganese .. .. .	292	415	452	178	292	2,294
Ferro-silicon .. .. .	13,392	23,796	706	173	1,143	2,593
Ingots .. .. .	442,721	720,552	270,872	81,147	149,160	599,146
Blooms and billets	452,830	684,243	457,262	160,271	312,691	422,915
Old and scrap .. .. .	1,065	3,228	70	9,195	141	156
Brazil—						
Ferro-manganese .. .. .	45	171	44	58	24	37
Ferro-silicon .. .. .	355	57	160	82	85	44
Ferro-chrome .. .. .	585	881	895	985	472	243
Other ferro-alloys .. .. .	155	295	304	113	210	243
Chile—						
Pig-iron .. .. .	113	} 688	100	6	<i>n.a.</i>	<i>n.a.</i>
Ferro-alloys .. .. .	172					
Colombia—						
Pig-iron .. .. .	—	—	9	—	—	633
Ingots, etc. .. .. .	—	10	—	1,124	—	} 16,682
Blooms, billets, etc. .. .. .	—	—	4,867	10	44,658	
Ferro-alloys .. .. .	3,611	2,105	1,855	3,634	3,447	2,609
Peru—						
Pig-iron .. .. .	113	137	298	81	1,053	168
Ferro-alloys .. .. .	428	1,042	371	429	620	1,049
Uruguay—						
Ingots .. .. .	29,314	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ferro-alloys .. .. .	222	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Venezuela—						
Pig-iron .. .. .	231	234	741	6,355	97	1,263
Ferro-alloys .. .. .	274	607	4,556	1,973	3,959	8,939
Scrap .. .. .	—	4	11,000	<i>n.a.</i>	<i>n.a.</i>	5,781
Ingots, blooms and billets	13,345	9,991	43,225	6,503	1,007	1,976
Formosa—						
Blooms, billets, etc. .. .. .	4,092	10,061	10,956	994	3,007	6,234
Ferro-alloys .. .. .	584	1,027	600	125	240	178
Old and scrap .. .. .	142,146	180,443	291,292	170,944	246,196	432,437
Iran (a)—						
Pig-iron .. .. .	<i>n.a.</i>	712	6,586	2,591	19,045	20,796
Old and scrap .. .. .	4,129	2,587	2,897	5,012	5,547	5,972
Israel—						
Pig-iron .. .. .	21,457	23,094	18,240	19,854	42,748	11,376
Spiegeleisen .. .. .	1,821	118	1,676	984	980	<i>n.a.</i>
Ferro-alloys .. .. .	1,820	839	4,471	4,467	2,106	1,091

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

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

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Japan—						
Pig-iron .. ..	980,531	2,027,909	1,424,473	1,524,730	3,305,559	2,582,652
Ferro-alloys .. ..	10	21,445	6,541	2,081	25,303	8,932
Ingots, blooms, billets..	3,736	124,259	113,727	4,206	7,299	1,977
Old and scrap .. ..	4,355,670	6,900,920	3,577,393	4,518,587	5,018,222	3,352,764
Jordan—						
Ingots, blooms, billets..	28,296	31,258	34,702	40,858	43,122	<i>n.a.</i>
Korea (South)—						
Pig iron .. ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	2,276	18,488	9,106
Ferro-alloys .. ..	2,452	2,249	5,385	4,778	3,081	417
Scrap .. ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	60,074	43,779	75,911
Ingots, blooms, etc. ..	6,593	18,737	1,465	43,719	25,207	13,146
Lebanon—						
Pig-iron .. ..	5,442	6,968	4,030	6,016	7,037	<i>n.a.</i>
Ferro-alloys .. ..	—	572	303	540	1,274	<i>n.a.</i>
Old and scrap .. ..	2,281	7,554	1,672	2,665	11,406	<i>n.a.</i>
Philippine Republic—						
Pig-iron .. ..	17,241	14,097	10,945	9,944	20,758	<i>n.a.</i>
Ferro-alloys .. ..	502	150	1,098	958	1,959	<i>n.a.</i>
Ingots, blooms, billets..	1,856	6,831	2,237	30,315	65,265	<i>n.a.</i>
Syria—						
Pig-iron .. ..	1,383	645	1,414	968	1,913	311
Scrap .. ..	1,337	1,475	1,952	2,086	1,626	1,560
Thailand—						
Pig-iron .. ..	501	315	296	298	—	128
Ferro-alloys .. ..	418	723	602	607	1,122	3,225
Turkey—						
Pig-iron .. ..	4,562	5,015	8,033	12,819	27,040	25,237
Ferro-alloys .. ..	955	3,627	4,400	1,077	6,258	8,359
Blooms, billets, etc. ..	24,265	—	8,079	73,695	88,333	99,919

**LEAD**  
**PRODUCTION OF LEAD ORE**  
*(Metal content)*

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom ..	1,420	1,587	903	1,600	1,500	2,400
Nigeria (a) .. ..	199	6	—	—	—	700
Rhodesia .. ..	17	31	—	—	—	—
Tanzania (c) .. ..	6,185	345	—	—	—	—
Zambia (b) .. ..	14,429	r 15,139	14,592	19,300	12,953	21,008
Canada (d) .. ..	183,616	205,745	192,258	179,611	181,890	256,081
India .. ..	4,456	3,997	4,523	4,248	4,421	3,918
Australia .. ..	308,163	269,656	370,110	410,291	374,856	355,168
<b>TOTAL .. ..</b>	<b>518,485</b>	<b>r 496,506</b>	<b>582,386</b>	<b>615,100</b>	<b>575,600</b>	<b>639,300</b>
Irish Republic .. ..	1,322	249	—	—	—	2,590
<b>OTHER COUNTRIES</b>						
Austria .. ..	5,695	6,021	5,887	5,442	5,830	5,798
Bulgaria .. ..	82,400	78,800	92,900	87,500	89,800	(e) 100,000
Czechoslovakia (e) ..	6,400	6,400	13,300	13,300	13,300	14,000
Finland (f) .. ..	1,567	3,071	2,822	1,127	1,860	6,207
France .. ..	18,260	18,558	14,050	8,263	11,997	17,739
Germany—						
Federal Republic ..	49,106	48,777	48,968	51,069	48,164	48,864
East (g) .. ..	7,000	7,000	7,000	10,000	10,000	10,000
Greece .. ..	9,087	11,382	12,597	8,709	14,200	8,317
Hungary .. ..	n.a.	900	900	1,000	1,000	(e) 1,200
Italy .. ..	48,683	46,622	r 42,188	28,482	30,622	33,162
Norway .. ..	2,482	2,254	2,815	2,944	3,522	3,448
Poland .. ..	38,600	37,600	37,300	38,100	37,700	40,500
Portugal .. ..	31	25	43	220	193	91
Roumania (b) (g) ..	11,000	11,000	12,000	12,000	12,000	12,000
Spain .. ..	71,744	78,449	69,877	61,212	57,363	57,033
Sweden .. ..	54,432	62,963	66,715	r 69,904	66,404	67,861
U.S.S.R. (b) (g) ..	340,000	370,000	400,000	400,000	400,000	410,000
Yugoslavia .. ..	89,780	95,153	100,383	99,972	99,991	94,833
Algeria .. ..	10,294	9,230	8,897	(g) 8,000	9,514	10,275
Congo (Republic of)	4,224	1,458	329	325	2,135	(e) 2,800
Egypt (e) .. ..	79	35	530	500	—	n.a.
Morocco .. ..	93,254	86,874	88,681	72,804	70,164	75,893
South Africa .. ..	121	91	5	14	—	3
South West Africa ..	63,800	62,000	73,038	81,000	94,730	86,000
Tunisia .. ..	17,630	16,560	12,864	13,620	12,450	15,620
Greenland .. ..	6,820	9,021	795	—	—	—
Guatemala (f) .. ..	8,422	8,445	953	735	(e) 500	668
Honduras .. ..	5,279	6,037	5,823	(e) 8,200	7,366	9,502

(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.

PRODUCTION OF LEAD ORE (cont.)

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Mexico (a) .. ..	187,658	178,462	190,245	186,986	172,063	167,406
United States (a) .. ..	220,240	233,858	211,568	226,222	255,366	268,880
Argentina .. ..	r 26,260	r 27,971	28,000	26,000	25,000	30,000
Bolivia (c) .. ..	21,031	20,002	18,184	19,622	16,951	16,404
Brazil (e) .. ..	10,900	13,700	15,000	17,100	14,500	14,500
Chile .. ..	2,405	r 2,007	r 1,378	r 1,135	989	1,000
Colombia .. ..	(d) 629	889	(d) 392	295	476	453
Ecuador .. ..	106	109	122	159	137	112
Peru (a) .. ..	129,551	134,244	126,152	r 144,882	148,294	144,800
Burma .. ..	17,000	16,500	20,000	19,700	18,500	n.a.
China (e) .. ..	80,000	90,000	90,000	100,000	100,000	100,000
Iran (e) (f) .. ..	14,500	14,500	10,000	10,000	16,500	17,000
Japan .. ..	38,908	45,549	52,611	51,884	53,218	54,108
Korea (South) .. ..	900	850	1,400	1,900	3,300	4,400
Korea (North) (b) .. ..	50,000	50,000	50,000	50,000	50,000	50,000
Philippine Republic .. ..	120	99	81	70	101	102
Thailand .. ..	2,000	2,300	2,500	2,200	3,600	5,500
Turkey .. ..	1,634	3,159	3,838	r 976	1,600	1,655
<b>TOTAL .. ..</b>	<b>1,800,000</b>	<b>1,900,000</b>	<b>1,900,000</b>	<b>1,900,000</b>	<b>2,000,000</b>	<b>2,000,000</b>
<b>WORLD'S TOTAL .. ..</b>	<b>2,400,000</b>	<b>2,400,000</b>	<b>2,500,000</b>	<b>2,600,000</b>	<b>2,500,000</b>	<b>2,700,000</b>

(a) Amount estimated as recoverable.

(b) Estimated.

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

(d) Imports into the United States.

(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	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom (h) ..	15,399	24,784	29,152	27,942	24,428	22,594
Zambia .. .. .	14,429	r 15,139	14,592	19,300	12,953	21,008
Canada .. .. .	141,527	153,422	135,908	138,393	135,154	166,504
India .. .. .	3,686	3,606	2,804	3,481	3,567	2,859
Australia (c) ..	242,546	210,354	263,235	305,266	281,404	260,213
<b>TOTAL .. .. .</b>	<b>417,587</b>	<b>r 407,305</b>	<b>455,691</b>	<b>494,382</b>	<b>457,506</b>	<b>473,178</b>
<b>OTHER COUNTRIES</b>						
Austria (b) .. ..	11,211	11,260	11,031	8,820	11,962	11,648
Belgium (b) .. ..	91,241	98,312	91,685	96,878	82,001	109,008
Bulgaria .. .. .	39,768	40,267	r 43,019	50,521	86,118	(d) 90,000
Czechoslovakia (a) ..	9,000	9,000	14,000	15,000	15,000	20,000
France .. .. .	73,212	69,705	69,452	76,401	88,372	96,803
Germany—Federal ..	145,332	123,539	125,363	108,496	105,805	102,388
do. East (a) (b) ..	25,000	25,000	25,000	25,000	25,000	25,000
Greece .. .. .	3,042	2,917	r 4,392	3,500	5,000	(d) 5,100
Hungary .. .. .	n.a.	1,000	500	400	200	(d) 200
Italy .. .. .	40,993	42,332	38,127	41,275	37,311	38,803
Norway .. .. .	—	—	—	—	4,000	1,700
Poland .. .. .	39,100	39,200	40,100	38,300	40,800	40,700
Portugal .. .. .	891	1,485	1,988	1,100	1,344	1,431
Roumania (a) .. ..	11,000	11,000	12,000	12,000	12,000	12,000
Spain .. .. .	70,057	76,498	71,131	61,103	57,078	51,549
Sweden .. .. .	43,850	38,166	38,158	40,124	39,725	39,600
U.S.S.R. (a) .. ..	340,000	370,000	400,000	400,000	400,000	410,000
Yugoslavia .. .. .	87,735	88,973	96,379	102,529	99,489	99,901
Morocco .. .. .	30,242	24,102	23,762	18,464	18,541	16,960
South West Africa ..	—	—	—	1,783	47,040	64,992
Tunisia .. .. .	19,548	18,160	15,578	12,600	11,890	14,000
Guatemala .. .. .	179	55	62	46	74	112
Mexico .. .. .	164,019	187,356	178,734	179,438	167,321	169,677
United States (e) ..	341,461	401,397	335,736	352,439	401,276	373,430
Argentina .. .. .	28,900	26,100	24,000	23,621	22,637	31,495
Bolivia (f) .. .. .	46	4	—	—	1	67
Brazil .. .. .	9,819	12,379	13,423	15,396	12,995	(d) 13,000
Chile .. .. .	589	472	250	217	—	—
Peru .. .. .	72,970	75,226	67,282	r 79,845	88,307	85,467
Burma .. .. .	13,161	15,514	17,110	17,458	17,768	17,716
China (a) (b) .. ..	70,000	85,000	85,000	85,000	85,000	85,000
Iran (g) .. .. .	1,143	1,283	393	(d) 500	369	(d) 400
Japan .. .. .	68,273	74,532	86,371	r 93,237	97,788	106,828
Korea (North) (a) ..	25,000	40,000	40,000	40,000	40,000	40,000
Turkey .. .. .	393	623	627	1,851	1,929	904
<b>TOTAL .. .. .</b>	<b>1,900,000</b>	<b>2,000,000</b>	<b>2,000,000</b>	<b>2,000,000</b>	<b>2,100,000</b>	<b>2,200,000</b>
<b>WORLD'S TOTAL ..</b>	<b>2,300,000</b>	<b>2,400,000</b>	<b>2,400,000</b>	<b>2,500,000</b>	<b>2,600,000</b>	<b>2,600,000</b>

(a) Estimated.

(b) Including secondary metal.

(c) Including lead in base bullion as follows :

Year	Long tons	Year	Long tons
1960 .. .. .	52,723	1963 .. .. .	80,661
1961 .. .. .	48,090	1964 .. .. .	78,304
1962 .. .. .	73,110	1965 .. .. .	66,907

(d) United States Bureau of Mines' estimate.

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

Year	Long tons	Year	Long tons
1960 .. .. .	419,556	1963 .. .. .	440,599
1961 .. .. .	404,279	1964 .. .. .	483,555
1962 .. .. .	396,609	1965 .. .. .	514,000

(f) Exports.

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

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

## EXPORTS OF LEAD, ETC.\*

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom—						
Unwrought .. .. .	15,317	25,913	32,076	38,657	35,781	37,336
do. alloys .. .. .	2,697	3,086	3,570	3,657	3,729	4,810
Semi-manufactures (a)	3,064	2,489	2,049	1,963	1,887	1,872
White lead .. .. .	2,179	2,140	3,614	1,690	1,510	1,146
Red lead, etc. .. .	3,811	3,876	3,928	4,050	4,269	4,699
Nigeria—						
Ore and concentrates ..	789	522	610	195	938	1,575
Tanzania						
Concentrates						
(Pb content) .. .. .	6,185	345	—	—	—	—
Uganda—						
Ore and concentrates ..	67	—	—	—	—	—
Zambia (c)—						
Ore .. .. .	57	15	—	—	—	—
Unwrought .. .. .	12,052	10,951	13,916	14,029	13,177	15,401
Canada—						
Ore (Pb content) .. .. .	45,835	63,363	53,120	47,996	71,747	95,504
Unwrought .. .. .	86,115	105,033	112,323	86,736	85,596	115,237
Scrap .. .. .	5,971	(a) 2,238	(a) 1,589	(a) 3,561	(a) 4,712	(a) 8,214
White lead .. .. .	972	n.a.	n.a.	n.a.	n.a.	n.a.
Hong Kong—						
Unwrought (a) .. .. .	r —	r —	r 20	r —	—	—
Scrap .. .. .	67	225	45	13	4	110
Malaya—						
Unwrought (a) .. .. .	537	593	284	87	341	223
Semi-manufactures (a)	24	24	37	37	29	36
Australia (b)—						
Ore and concentrates						
(Pb content) .. .. .	60,054	60,655	59,802	106,289	95,928	74,104
Base bullion (Pb content)	48,920	53,365	46,140	77,564	82,715	56,380
Unwrought .. .. .	121,420	127,055	199,942	169,264	169,035	151,211
do. alloys .. .. .	921	4,933	1,390	1,495	6,829	2,701
Scrap (a) .. .. .	1,241	531	6	73	2,547	2,575
Semi-manufactures .. .	97	1,140	351	1,106	2,226	2,881
Red and white lead, etc.	1,798	2,061	2,468	2,373	1,981	2,503
Irish Republic—						
Ore and concentrates ..	2,245	1,249	—	—	—	—
Scrap .. .. .	285	196	912	283	310	871
<b>OTHER COUNTRIES</b>						
Austria—						
Unwrought (a) .. .. .	3,134	2,829	2,680	1,733	3,751	2,719
Scrap .. .. .	—	10	—	6	14	19
Red and white lead, etc.	1,199	961	611	1,078	655	170

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

(a) Including alloys.

(b) Years ended June 30 of that stated.

(c) Figures for the years 1960 to 1963 relate to Rhodesia and Nyasaland.

## EXPORTS OF LEAD, ETC. (cont.)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES						
(cont.)						
Belgium-Luxemburg						
E.U.—						
Ore .. .. .	26	—	—	7	590	259
Unwrought .. .. .	50,412	53,613	57,781	63,833	41,769	61,598
do. alloys .. .. .	2,149	2,492	2,923	5,610	7,061	9,078
Scrap .. .. .	1,668	1,191	2,031	2,088	3,298	2,204
Semi-manufactures (a)	4,327	6,479	6,994	6,351	6,209	7,739
Red and white lead, etc.	3,970	4,547	4,922	4,406	3,682	3,605
Denmark—						
Unwrought .. .. .	4,055	5,230	1,091	1,443	2,623	3,209
do. alloys .. .. .	4,398	3,251	3,267	2,566	2,188	1,403
Scrap .. .. .	103	—	—	—	—	5
Semi-manufactures (a)	74	168	218	314	303	272
Finland—						
Unwrought (a) .. .. .	369	124	57	2	67	—
France—						
Ore .. .. .	19,170	8,367	4,837	123	4,976	3,130
Unwrought .. .. .	6,243	4,699	3,408	2,792	3,316	10,532
do. alloys .. .. .	942	1,382	1,993	1,340	2,570	4,156
Scrap .. .. .	563	1,642	7,432	8,237	9,568	11,939
Semi-manufactures (a)	1,256	1,148	757	709	1,376	1,137
Red and white lead, etc.	7,286	4,850	4,809	4,897	6,334	5,784
Germany (Federal)—						
Ore .. .. .	—	—	5	10,054	941	6,918
Unwrought (a) .. .. .	24,529	25,271	22,482	17,684	21,251	12,629
Scrap (a) .. .. .	702	2,770	5,066	8,690	9,215	14,639
Semi-manufactures (a)	3,332	4,293	3,268	2,950	3,855	5,432
Red and white lead .. .. .	9,722	10,725	9,884	9,943	9,334	8,147
Greece—						
Ore .. .. .	16,159	14,185	12,066	9,430	6,800	10,273
Unwrought .. .. .	6	8	—	—	—	n.a.
Italy—						
Ore .. .. .	7,240	4,811	5,442	4,370	5,380	4,588
Unwrought (a) .. .. .	18	4	89	112	189	125
Semi-manufactures (a)	1,281	184	74	400	52	61
Red and white lead .. .. .	57	1,378	1,434	942	1,371	1,546
Netherlands—						
Unwrought .. .. .	6,333	7,243	5,859	5,381	7,243	7,595
do. alloys .. .. .	1,466	1,072	1,207	1,843	1,827	2,088
Scrap (a) .. .. .	1,655	3,178	2,683	3,196	8,297	7,484
Semi-manufactures (a)	3,547	2,994	2,477	2,882	1,817	1,230
Red and white lead .. .. .	1,416	1,520	2,038	1,664	1,502	1,467
Norway—						
Ore .. .. .	4,364	3,386	5,070	3,378	7,338	5,810
Unwrought (a) .. .. .	215	481	251	183	171	354
Semi-manufactures (a)	179	192	341	412	338	275
Scrap .. .. .	2,050	2,356	2,369	2,692	3,297	2,898
Portugal—						
Unwrought (a) .. .. .	26	8	5	11	13	34
Semi-manufactures (a)	50	20	22	37	52	72
Red and white lead .. .. .	53	42	41	10	133	72
Spain—						
Ore .. .. .	2,490	1,165	533	20	—	—
Unwrought (a) .. .. .	37,762	35,795	28,791	11,444	1,879	312
Semi-manufactures (a)	3,100	39	152	42	32	20
Sweden—						
Ore .. .. .	9,028	22,443	41,966	41,385	48,282	40,814
Unwrought .. .. .	17,352	14,306	12,686	11,820	6,396	8,109
do. alloys .. .. .	2,177	1,576	1,567	2,111	1,766	905
Scrap .. .. .	231	167	52	170	238	158
Semi-manufactures (a)	154	196	233	27	19	25
Red and white lead, etc.	1,658	1,606	1,352	1,469	1,879	1,572

(a) Including alloys.

## EXPORTS OF LEAD, ETC. (cont.)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Switzerland—						
Unwrought .. ..	—	6	1	15	854	345
Scrap .. ..	2,032	2,092	2,377	3,405	6,929	10,452
Semi-manufactures ..	83	78	101	105	83	133
U.S.S.R.—						
Unwrought .. ..	68,700	100,700	92,900	108,500	94,600	100,900
Yugoslavia—						
Unwrought .. ..	60,675	50,128	51,251	51,766	52,577	53,289
do. alloys .. ..	1,670	1,260	863	828	4,437	4,907
Semi-manufactures (a)	4,660	6,715	14,424	7,652	4,971	2,921
Red lead .. ..	307	245	411	695	736	704
Algeria—						
Ore .. ..	5,729	12,405	11,972	11,867	10,868	12,594
Unwrought (a) .. ..	51	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Scrap .. ..	3,692	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Red and white lead ..	14	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Congo (Republic of)—						
Ore .. ..	7,189	2,603	—	—	<i>n.a.</i>	—
Morocco—						
Ore .. ..	144,353	96,789	91,975	135,410	94,272	140,943
Unwrought .. ..	26,359	23,411	23,758	11,034	16,806	13,930
do. alloys .. ..	8	39	20	2,760	—	48
Scrap .. ..	86	32	—	—	20	40
South Africa—						
Unwrought .. ..	92	67	36	375	37,181	<i>n.a.</i>
Semi-manufactures ..	4	2	—	<i>n.a.</i>	96	<i>n.a.</i>
South West Africa—						
Complex concentrates (Pb content) .. ..	60,542	57,386	69,115	67,008	34,977	36,143
Lead-vanadium concentrates .. ..	7,716	8,296	7,594	10,510	10,548	9,762
Tunisia—						
Unwrought (a) .. ..	16,446	18,745	14,993	13,069	10,653	14,076
Scrap .. ..	457	415	329			
Greenland—						
Ore .. ..	10,602	12,567	2,290	—	—	—
Guatemala—						
Ore .. ..	8,901	15,139	2,929	1,392	902	29
Honduras—						
Ore and concentrates ..	5,407	7,847	8,438	9,743	10,223	15,452
Mexico—						
Ores and concentrates ..	3,505	3,897	4,344	2,894	3,125	<i>n.a.</i>
Unwrought—						
Refined .. ..	129,487	148,155	121,557	122,433	91,943	95,199
Base bullion .. ..	11,806	17,385	10,408	11,752	10,983	10,202
Antimonial .. ..	1,440	1,578	335	368	363	<i>n.a.</i>
Semi-manufactures ..	—	—	—	—	375	<i>n.a.</i>
Red and white lead ..	14,721	18,151	22,356	29,114	32,131	32,836

(a) Including alloys.



## EXPORTS OF LEAD, ETC. (cont.)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES (cont.)						
United States—						
Ore, mattes and base bullion (Pb content) ..	1,158	3,961	2,588	4	17	n.a.
Unwrought (a) .. ..	1,756	1,904	1,882	972	9,470	5,143
Scrap .. .. .	2,302	4,610	2,197	2,162	11,739	3,387
Semi-manufactures (a)	460	611	836	710	1,189	1,830
Red and white lead, etc.	1,891	2,056	1,714	n.a.	1,500	2,041
Argentina—						
Ore .. .. .	—	—	—	266	309	150
Unwrought .. ..	—	—	1	2	—	—
Bolivia—						
Ore, etc. (Pb content) ..	20,985	19,998	18,184	19,622	16,950	16,337
Unwrought .. ..	46	4	—	—	1	67
Chile—						
Ore and concentrates ..	2,645	2,850	2,128	2,819	n.a.	n.a.
Colombia—						
Ore .. .. .	1,107	—	—	—	216	714
Ecuador—						
Concentrates .. ..	979	410	n.a.	997	n.a.	n.a.
Peru—						
Ore and concentrates (Pb content) .. ..	57,051	64,481	125,901	64,496	63,604	64,523
Unwrought (Pb content)						
Refined .. .. .	58,789	75,510	71,734	54,103	100,451	84,052
Unrefined .. ..	62	221	224	37	48	53
Burma—						
Ore .. .. .	648	396	450	576	360	162
Unwrought .. ..	13,448	12,363	18,643	16,579	11,263	11,778
do. alloys .. ..	198	327	468	486	854	227
Iran (b)—						
Ore .. .. .	12,298	20,938	30,045	28,048	43,590	50,737
Japan—						
Unwrought (a) .. ..	69	73	68	108	313	8,406
Semi-manufactures (a)	145	813	339	3,727	968	2,947
Red and white lead ..	13	18	(c) 17	(c) 4	(c) 12	(c) 219
Korea (South)—						
Ore .. .. .	1,805	1,596	1,420	4,903	10,817	6,978
Thailand—						
Ore .. .. .	4,733	5,002	4,262	4,998	7,022	10,555
Turkey—						
Ore .. .. .	2,323	2,313	2,411	5,008	2,500	1,476

(a) Including alloys.

(b) Years ended March 20 following that stated.

(c) Excluding white lead.

## IMPORTS OF LEAD, ETC.\*

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore and concentrates (Pb content) (c) ..	22,303	22,939	26,647	25,404	29,258	20,829
Unwrought (a) ..	208,820	179,865	180,282	179,622	189,767	215,565
Scrap (a) ..	2,671	886	2,135	1,593	4,173	2,072
Semi-manufactures (a) ..	507	475	203	232	202	17
Channel Islands—						
Unwrought and semi-manufactures (a) ..	131	150	139	78	1,262	184
Ghana—						
Unwrought (a) ..	236	52	40	18	3	10
Semi-manufactures (a) ..		291	235	383	36	455
Kenya—						
Unwrought (a) ..	52	80	119	104	94	200
Semi-manufactures (a) ..	13	10	17	7	10	1
Mauritius—						
Unwrought (a) ..	—	10	6	1	28	13
Semi-manufactures (a) ..	30	37	34	25	29	28
Nigeria—						
Unwrought and semi-manufactures (a) ..	595	505	1,179	414	1,123	519
Rhodesia (d)—						
Semi-manufactures (a) ..	129	106	67	84	728	836
Red and white lead, etc.	190	137	127	117	n.a.	n.a.
Sierra Leone—						
Semi-manufactures (a) ..	32	92	45	36	30	44
Tanzania—						
Unwrought (a) ..	5	11	21	64	22	55
Semi-manufactures (a) ..	8	7	10	6	6	3
Uganda—						
Unwrought (a) ..	48	10	24	8	43	56
Semi-manufactures (a) ..	4	6	9	5	12	14
Barbados—						
Unwrought (a) ..	1	—	11	4	10	(b) 56
Semi-manufactures (a) ..	152	51	35	80	63	107
Jamaica—						
Unwrought (a) ..	1	80	110	134	156	111
Semi-manufactures (a) ..	118	71	53	76	85	93
Trinidad and Tobago—						
Unwrought (a) ..	13	14	2	9	4	n.a.
Semi-manufactures (a) ..	96	39	46	119	108	n.a.
Red and white lead, etc.	23	16	13	9	13	n.a.
Canada—						
Unwrought ..	553	1,001	516	1,555	65	63
Scrap ..	137	83	41	49	n.a.	n.a.
Semi-manufactures, etc.	40	56	61	87	n.a.	230
Red and white lead, etc.	1,090	1,008	921	1,122	1,357	1,058
British Guiana—						
Semi-manufactures (a) ..	22	29	19	n.a.	17	34
Ceylon—						
Unwrought (a) ..	62	100	156	428	243	543
Semi-manufactures (a) ..	(b) 1	59	91	4	34	128
Cyprus—						
Semi-manufactures (a) ..	33	125	164	63	81	62
Hong Kong—						
Unwrought (a) ..	r(b) 350	r 28	r(b) 166	r(b) 409	(b) 355	52
Scrap ..	20	11	1	19	19	16
Semi-manufactures (a) ..	r 86	r 162	r 106	r 112	227	117

\*See footnote on p. 184 concerning the descriptions "unwrought" lead and "semi-manufactures" used in these tables.

(a) Including alloys.

(b) Excess of re-exports.

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

(d) Figures for the years 1960 to 1963 relate to Rhodesia and Nyasaland.

## IMPORTS OF LEAD, ETC. (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
<i>(cont.)</i>						
India (b)—						
Ore .. .. .	100	79	30	9	6	27
Unwrought .. .. .	23,694	27,781	33,088	35,955	32,514	33,833
do. alloys .. .. .	376	284	346	511	732	324
Semi-manufactures (a)	177	405	96	166	322	499
Litharge, red and white lead, etc. .. .. .	9	24	50	35	24	47
Malaya—						
Unwrought (a) .. .. .	454	670	324	290	309	494
Semi-manufactures (a)	151	156	570	615	543	813
Pakistan—						
Ore .. .. .	306	438	233	255	333	n.a.
Unwrought (a) .. .. .	547	1,448	n.a.	1,126	6,063	n.a.
Semi-manufactures (a)	104	248	n.a.	15	96	n.a.
Litharge, red and white lead, etc. .. .. .	431	561	148	124	90	n.a.
Sabah—						
Semi-manufactures (a)	23	25	24	90	31	45
Australia (c)—						
Unwrought and semi-manufactures (a) .. .. .	10	2,395	4,296	2,283	235	440
Red and white lead, etc.	86	162	137	97	108	170
Fiji—						
Unwrought and semi-manufactures (a) .. .. .	32	47	78	80	89	79
New Zealand—						
Unwrought (a) .. .. .	4,337	5,215	4,379	} (c) 5,099	{ (c) 5,773	} (c) 6,144
Semi-manufactures (a)	6	6	111			
Red and white lead, etc.	1,415	1,030	1,056	(c) 1,156	(c) 502	
Irish Republic—						
Unwrought (a) .. .. .	359	497	493	614	420	364
Semi-manufactures (a)	106	77	44	87	92	97
<b>OTHER COUNTRIES</b>						
Austria—						
Ore .. .. .	4,921	4,577	4,217	3,642	5,354	4,458
Unwrought (a) .. .. .	12,666	10,277	12,647	12,698	12,027	12,244
Scrap .. .. .	261	233	65	43	449	489
Semi-manufactures (a)	375	243	232	306	389	198
Belgium-Luxemburg						
E.U.—						
Ore .. .. .	137,252	152,380	149,660	123,621	100,008	194,331
Unwrought .. .. .	19,374	13,954	19,048	18,028	16,210	13,860
do. alloys .. .. .	853	169	754	670	773	544
Scrap .. .. .	1,185	4,599	3,522	3,988	17,441	20,634
Semi-manufactures (a)	795	508	632	812	823	900
Red and white lead, etc.	1,214	1,050	1,139	1,069	1,268	1,627
Denmark—						
Unwrought .. .. .	16,620	18,878	15,412	13,147	13,819	13,679
do. alloys .. .. .	307	107	308	581	1,199	592
Scrap .. .. .	4,972	3,692	3,789	3,631	4,574	5,411
Semi-manufactures (a)	210	294	625	871	794	719
Red and white lead .. .. .	1,985	1,988	1,637	1,540	1,485	513
Finland—						
Unwrought (a) .. .. .	14,395	10,904	10,655	15,254	10,853	10,063
Semi-manufactures (a)	833	1,275	969	685	643	541
Red and white lead, etc.	471	443	548	570	514	570

(a) Including alloys.

(b) Years ended March 31 following that stated.

(c) Years ended June 30 of that stated.

## IMPORTS OF LEAD, ETC. (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
France—						
Ore .. .. .	99,342	90,894	96,096	130,182	141,813	128,328
Unwrought .. ..	55,713	63,602	63,725	64,404	54,729	26,121
do. alloys .. ..	1,220	1,858	2,602	2,316	2,516	1,543
Scrap .. .. .	4,337	3,034	2,313	3,938	1,425	2,902
Semi-manufactures (a)	66	101	164	136	343	475
Red and white lead, etc.	1,978	2,110	2,511	2,764	2,172	2,605
Germany (Federal)—						
Ore .. .. .	151,751	144,394	142,462	107,473	107,333	137,294
Unwrought (a) .. ..	86,404	75,330	98,382	98,974	98,468	114,835
Scrap (a) .. .. .	1,028	1,243	1,265	1,226	10,184	5,470
Semi-manufactures (a)	198	470	1,214	1,815	2,115	2,025
Red and white lead, etc.	3,953	4,419	4,429	3,355	3,613	3,739
Greece—						
Unwrought .. .. .	255	453	1,402	492	286	962
Hungary—						
Unwrought .. .. .	10,540	11,020	10,286	10,951	12,231	<i>n.a.</i>
Iceland—						
Unwrought .. .. .	176	224	278	255	262	232
Semi-manufactures (a)	27	32	30	70	85	72
Red and white lead .. ..	24	21	11	19	14	7
Italy—						
Ore .. .. .	5,191	8,824	8,027	20,635	9,218	32,244
Unwrought (a) .. ..	24,560	38,608	47,120	38,350	35,764	29,778
Scrap .. .. .	7,242	13,194	20,298	21,044	15,941	30,384
Semi-manufactures (a)	894	2,862	4,636	3,752	3,559	3,177
Red and white lead .. ..	427	642	2,158	3,839	4,249	3,677
Netherlands—						
Ore .. .. .	3	1	3	2	—	707
Unwrought .. .. .	33,291	41,707	39,738	31,846	35,948	42,145
do. alloys .. .. .	11,932	13,853	10,007	8,086	12,270	12,681
Scrap (a) .. .. .	2,795	1,287	1,178	3,649	5,098	3,402
Semi-manufactures (a)	2,191	2,592	2,322	2,672	3,037	3,063
Red and white lead .. ..	6,014	5,952	6,545	4,029	4,414	4,291
Norway—						
Unwrought .. .. .	8,606	8,454	7,990	9,348	8,017	7,617
do. alloys .. .. .	1,479	1,224	1,381	1,692	2,129	1,720
Semi-manufactures (a)	1,014	1,083	1,334	1,041	1,096	1,272
Red and white lead .. ..	718	700	714	847	785	936
Poland—						
Unwrought .. .. .	10,932	14,800	<i>n.a.</i>	13,352	20,532	19,300
Portugal—						
Unwrought (a) .. ..	5,708	6,593	6,385	7,784	8,909	6,665
Scrap .. .. .	27	37	47	44	94	73
Semi-manufactures (a)	73	12	4	10	26	72
Red and white lead, etc.	166	172	145	119	86	93
Sweden—						
Unwrought .. .. .	9,474	8,688	11,782	6,957	6,382	6,711
do. alloys .. .. .	1,405	1,264	893	1,133	680	836
Scrap .. .. .	375	325	307	584	409	655
Semi-manufactures (a)	2,068	1,619	2,333	2,038	2,160	1,973
Red and white lead .. ..	1,249	1,402	1,711	1,404	1,569	2,302
Switzerland—						
Unwrought .. .. .	18,673	21,917	23,738	19,529	21,063	23,547
Semi-manufactures .. ..	414	683	677	560	439	329
Red and white lead .. ..	580	715	631	598	770	823
U.S.S.R.—						
Unwrought .. .. .	39,100	38,900	25,700	38,200	49,100	47,100

(a) Including alloys.

## IMPORTS OF LEAD, ETC. (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
<b>Algeria—</b>						
Ore .. .. .	54	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Unwrought .. .. .	3,940	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
do. alloys .. .. .	251	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Scrap .. .. .	20	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Semi-manufactures (a)	739	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Red and white lead, etc.	197	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
<b>Angola—</b>						
Semi-manufactures .. .. .	8	59	59	74	85	138
Red and white lead .. .. .	53	38	39	54	50	39
<b>Egypt—</b>						
Unwrought and scrap .. .. .	4,643	4,427	5,993	5,241	5,529	4,528
Semi-manufactures .. .. .	57	40	37	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Red and white lead .. .. .	718	678	1,757	<i>n.a.</i>	1,104	1,269
<b>Malagasy Republic—</b>						
Unwrought (a) .. .. .	31	66	81	126	112	<i>n.a.</i>
Semi-manufactures (a) .. .. .	27	21	58	50	33	<i>n.a.</i>
Red and white lead .. .. .	17	11	18	25	17	<i>n.a.</i>
<b>Morocco—</b>						
Semi-manufactures (a) .. .. .	29	58	86	90	48	36
Red and white lead .. .. .	117	152	160	110	105	173
<b>Mozambique—</b>						
Semi-manufactures (a) .. .. .	150	132	35	109	120	144
Red and white lead .. .. .	25	26	27	42	35	24
<b>South Africa—</b>						
Unwrought .. .. .	12,066	11,922	13,431	15,241	9,624	<i>n.a.</i>
Semi-manufactures .. .. .	22	27	75	48	98	<i>n.a.</i>
Red and white lead .. .. .	154	106	89	80	(b) 72	<i>n.a.</i>
<b>Sudan—</b>						
Semi-manufactures .. .. .	47	24	41	144	300	129
<b>Tunisia—</b>						
Ore .. .. .	3	3	1	8	6	<i>n.a.</i>
<b>Costa Rica—</b>						
Unwrought (a) .. .. .	39	23	54	183	40	79
<b>Mexico—</b>						
Unwrought .. .. .	11	9	7	9	10	<i>n.a.</i>
<b>Nicaragua—</b>						
Unwrought .. .. .	7	14	35	50	90	133
<b>Salvador—</b>						
Unwrought .. .. .	12	36	100	101	56	46
Semi-manufactures .. .. .	94	156	89	88	135	223
<b>United States—</b>						
Ore, matte and flue dust (Pb content) .. .. .	122,592	122,196	118,821	120,040	114,345	115,190
Bullion and base bullion (Pb content) .. .. .	262	211	1,860	3,355	6,371	445
Unwrought (Pb content) do. alloys (Pb content)	190,488	220,828	230,273	196,784	183,530	197,785
Scrap (Pb content) .. .. .	4,846	6,405	7,626	3,966	4,988	
Semi-manufactures .. .. .	4,998	3,477	1,856	13,764	1,674	
Red and white lead, etc.	2,549	2,540	2,032	2,169	2,890	
Red and white lead, etc.	13,755	15,821	16,530	<i>n.a.</i>	19,085	21,753
<b>Argentina—</b>						
Unwrought .. .. .	<i>n.a.</i>	<i>n.a.</i>	801	3,249	1	3
<b>Brazil—</b>						
Unwrought .. .. .	8,464	13,283	7,953	15,585	4,149	2,136
do. alloys .. .. .	112	28				
Red and white lead .. .. .	612	1,008				
<b>Chile—</b>						
Unwrought .. .. .	687	296	724	1,536	<i>n.a.</i>	<i>n.a.</i>
Bars and sheets .. .. .	43	5	182	122	<i>n.a.</i>	<i>n.a.</i>
Red and white lead .. .. .	152	151	196	91	<i>n.a.</i>	<i>n.a.</i>

(a) Including alloys.

(b) Red lead only.

## IMPORTS OF LEAD, ETC. (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES						
(cont.)						
Colombia—						
Unwrought (a) ..	1,441	1,204	228	1,275	1,383	468
Semi-manufactures (a) ..	113	97	11	43	30	109
Red and white lead ..	403	514	767	998	1,102	638
Ecuador—						
Unwrought .. ..	n.a.	193	152	176	162	n.a.
Red and white lead ..	n.a.	121	93	106	126	n.a.
Peru—						
Semi-manufactures (a) ..	39	103	48	89	51	30
Red and white lead ..	62	52	40	47	12	34
Uruguay—						
Unwrought .. ..	1,866	n.a.	n.a.	n.a.	n.a.	n.a.
Red and white lead, etc.	298	n.a.	n.a.	n.a.	n.a.	n.a.
Venezuela—						
Unwrought .. ..	1,104	1,861	1,855	2,767	2,721	1,666
Semi-manufactures ..	113	201	268	147	315	490
Red and white lead ..	1,525	1,496	1,575	1,140	656	1,075
Burma—						
Semi-manufactures (a) ..	56	36	62	5	5	—
Formosa—						
Unwrought (a) .. ..	1,423	1,205	1,873	2,481	2,443	3,129
Semi-manufactures (a) ..	30	50	24	84	142	74
Red and white lead, etc.	141	95	91	41	25	50
Indonesia—						
Unwrought and scrap ..	1,271	3,338	n.a.	n.a.	n.a.	n.a.
Semi-manufactures (a) ..	288	596	n.a.	n.a.	n.a.	n.a.
Red and white lead ..	383	797	n.a.	n.a.	n.a.	n.a.
Iran (b)—						
Unwrought .. ..	22	43	38	59	367	1,047
Semi-manufactures ..	62	28	177	26	59	43
Red and white lead ..	n.a.	n.a.	376	506	692	662
Iraq—						
Semi-manufactures ..	170	46	24	58	7	n.a.
Israel—						
Unwrought .. ..	658	824	1,314	904	1,131	1,111
Scrap .. ..	n.a.	201	311	14	65	24
Semi-manufactures ..	116	222	100	192	125	695
Red and white lead ..	480	355	538	581	691	683
Japan—						
Ore .. ..	41,332	68,090	38,005	67,565	50,886	66,185
Unwrought .. ..	22,224	43,590	25,781	23,802	67,896	37,665
Scrap .. ..	1,062	856	781	873	1,409	2,911
Semi-manufactures (a) ..	1	3	4	13	—	34
Red and white lead ..	1	—	1	1	5	4
Jordan—						
Unwrought .. ..	n.a.	189	275	281	n.a.	n.a.
Korea (South)—						
Unwrought and semi-manufactures ..	n.a.	n.a.	n.a.	3,625	527	1,492
Lebanon—						
Unwrought .. ..	236	398	274	299	499	n.a.
Semi-manufactures (a) ..	159	273	75	43	40	n.a.
Philippine Republic—						
Unwrought (a) .. ..	1,312	1,638	3,577	1,911	1,972	n.a.
Semi-manufactures (a) ..		490	364	112	421	n.a.
Red and white lead ..		414	1,390	473	75	96
Syria—						
Unwrought .. ..	255	664	n.a.	594	351	263
Red and white lead ..	n.a.	n.a.	n.a.	n.a.	112	114
Thailand—						
Unwrought (a) .. ..	701	643	1,023	674	816	919
Semi-manufactures (a) ..	103	66	48	64	100	141
Turkey—						
Unwrought (a) .. ..	1,690	549	2,103	2,303	1,432	16
Semi-manufactures (a) ..	227	296	99	16	5	6
Red and white lead ..	826	94	450	548	289	119

(a) Including alloys.

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

**LITHIUM MINERALS**  
**PRODUCTION OF LITHIUM MINERALS**

Long tons

Producing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Rhodesia—						
Amblygonite .. ..	—	77	31	46	—	(b) —
Eucryptite .. ..	1,191	1,678	773	1,039	720	(b) 476
Lepidolite .. ..	13,826	21,462	18,967	14,426	20,485	(b) 11,867
Petalite .. ..	56,818	24,730	19,379	26,738	32,544	(b) 20,034
Spodumene .. ..	6,866	1,453	1,336	1,996	6,219	(b) 10,278
Uganda—						
Amblygonite .. ..	—	23	20	47	—	20
Canada—						
Lithium minerals (Li <sub>2</sub> O content) .. ..	91	239	223	288	472	462
Australia—						
Petalite .. ..	1	96	84	390	208	} 310
Amblygonite .. ..	15	24	28	20	—	
Spodumene .. ..	—	5	24	22	52	
<b>OTHER COUNTRIES</b>						
Spain—						
Amblygonite .. ..	25	17	—	—	—	—
Mozambique—						
Lepidolite .. ..	<i>n.a.</i>	151	270	102	—	75
Rwanda and Burundi—						
Amblygonite .. ..	2,294	1,655	321	362	290	<i>n.a.</i>
South Africa—						
Spodumene .. ..	154	232	1,128	372	160	855
South West Africa—						
Amblygonite .. ..	143	121	126	115	12	35
Lepidolite .. ..	868	1,266	1,590	77	363	266
Petalite .. ..	3,683	2,268	899	772	712	1,189
Argentina—						
Spodumene .. ..	137	396	443	1,413	713	<i>n.a.</i>
Brazil—						
Amblygonite (a) .. ..	49	—	—	—	—	25
Spodumene (a) .. ..	—	—	148	25	—	6,707
Surinam—						
Amblygonite (a) .. ..	—	424	738	507	<i>n.a.</i>	<i>n.a.</i>

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

(a) Exports.

(b) January to September only.

## EXPORTS OF LITHIUM MINERALS

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Rhodesia (a)— ..						
Lithium minerals ..	114,219	29,056	29,203	35,931	66,325	49,932
<b>OTHER COUNTRIES</b>						
Germany (Federal)—						
Lithium minerals ..	<i>n.a.</i>	<i>n.a.</i>	331	406	621	606
Mozambique—						
Lepidolite .. ..	<i>n.a.</i>	151	270	102	<i>n.a.</i>	75
Rwanda and Burundi—						
Amblygonite .. ..	1,476	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
South Africa—						
Lithium minerals ..	—	50	916	380	335	409
South West Africa—						
Amblygonite .. ..	—	68	130	176	—	597
Lepidolite .. ..	638	822	1,318	281	484	152
Petalite .. ..	1,753	2,104	310	681	1,028	991
Brazil—						
Amblygonite .. ..	49	—	—	—	—	25
Spodumene .. ..	—	—	148	25	—	6,707
Surinam—						
Amblygonite .. ..	—	424	738	507	<i>n.a.</i>	<i>n.a.</i>

(a) Figures for years 1960 to 1963 relate to Rhodesia and Nyasaland.

## IMPORTS OF LITHIUM MINERALS\*

Long tons

Importing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom (a) ..	10,500	4,000	3,400	<i>r</i> 4,300	10,300	7,000
<b>OTHER COUNTRIES</b>						
France (a) .. ..	200	—	—	—	—	—
Germany (Federal) ..	10,093	9,814	10,307	9,809	14,701	10,766
Netherlands (a) .. ..	4,200	5,100	3,000	3,200	4,400	6,500
United States (a) (b) ..	92,000	18,000	19,000	<i>r</i> 22,000	32,000	15,000
Japan (a) .. ..	3,000	2,000	4,000	3,100	7,000	3,500

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

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

(b) Official figures of United States imports for consumption are as follows (long tons): 1960—45,624; 1961—23,954; 1962—27,419; 1963—20,056; 1964—24,123; 1965—10,040.



**MAGNESITE AND DOLOMITE**  
**PRODUCTION OF MAGNESITE AND DOLOMITE**

Long tons

Producing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom—						
Dolomite, crude (a) ..	3,100,000	2,800,000	2,700,000	3,000,000	3,700,000	3,800,000
Kenya—						
Magnesite, crude ..	30	1,723	—	257	167	66
Rhodesia—						
Magnesite, crude ..	7,171	12,394	10,375	10,774	37,867	<i>n.a.</i>
Dolomite .. ..	205	—	—	—	—	<i>n.a.</i>
Tanzania—						
Magnesite, crude (c) ..	112	42	—	84	487	1,125
Canada—						
Magnesitic dolomite (b) ..	£1,204,194	£1,079,395	£1,143,386	£1,138,999	£1,184,739	£1,329,587
Ceylon—						
Dolomite .. ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	5,004
India—						
Magnesite, crude ..	153,862	206,431	r 213,938	230,861	204,652	234,936
Dolomite .. ..	639,417	r 710,784	r 856,294	1,068,300	512,901	942,459
Pakistan—						
Magnesite .. ..	434	160	300	864	607	515
Dolomite .. ..	151	346	509	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Australia—						
Magnesite, crude ..	62,166	98,795	62,191	56,946	31,250	22,364
Dolomite .. ..	190,868	191,624	180,697	214,339	236,068	250,538
New Zealand—						
Magnesite, crude ..	795	581	635	781	603	837
Dolomite .. ..	3,390	3,550	5,748	4,387	9,164	7,556
<b>OTHER COUNTRIES</b>						
Austria—						
Magnesite—						
Crude .. ..	1,599,735	1,770,273	1,582,022	1,292,054	1,630,411	1,786,933
Caustic (d) .. ..	118,782	127,698	130,450	129,961	133,355	133,530
do. powder (d) ..	46,440	51,573	47,925	37,721	55,332	61,690
Dead-burned (d) ..	491,642	533,760	476,524	404,598	513,756	556,958
Bricks (d) .. ..	256,074	290,081	270,260	219,540	272,472	277,978
Belgium—						
Dolomite—						
Crude .. ..	443,210	481,940	576,760	681,420	894,140	854,020
Calcined .. ..	302,440	294,910	291,470	318,450	332,160	312,840
Finland—						
Dolomite .. ..	<i>n.a.</i>	93,220	90,800	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
France—						
Dolomite, crude ..	754,843	757,558	832,941	935,076	1,102,505	1,279,800
Germany (Federal)—						
Dolomite, crude ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	133,478	276,360
Greece—						
Magnesite—						
Crude .. ..	184,331	146,047	r 214,522	263,392	(e) 200,000	(e) 350,000
Caustic (d) .. ..	40,457	46,343	67,585	r 47,335	<i>n.a.</i>	<i>n.a.</i>
Dead-burned (d) ..	25,826	23,059	28,872	41,648	<i>n.a.</i>	<i>n.a.</i>
Hungary—						
Dolomite .. ..	330,189	447,889	423,966	424,981	474,500	551,000
Italy—						
Magnesite, crude ..	5,879	6,677	8,281	6,707	6,209	3,480
Dolomite—						
Metallurgical ..	70,878	60,594	69,955	75,853	80,222	<i>n.a.</i>
Refractory, etc. ..	482,009	640,583	693,604	772,818	821,303	<i>n.a.</i>
Luxemburg—						
Dolomite, calcined ..	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	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Norway—						
Dolomite .. ..	208,882	209,839	213,811	251,175	444,512	<i>n.a.</i>
Poland—						
Magnesite, crude .. ..	21,357	26,672	33,600	26,200	<i>n.a.</i>	<i>n.a.</i>
Portugal—						
Dolomite .. ..	2,600	2,707	3,740	3,858	5,285	<i>n.a.</i>
Spain—						
Magnesite .. ..	47,535	81,877	70,260	83,317	91,852	<i>n.a.</i>
Sweden—						
Dolomite—						
Crude .. ..	61,463	55,004	50,692	53,499	72,443	90,100
Calcined (d) .. ..	49,873	51,154	47,225	54,885	58,066	62,700
Yugoslavia—						
Magnesite, crude .. ..	247,869	268,752	367,465	405,453	489,564	517,634
South Africa—						
Magnesite, crude .. ..	59,637	60,475	91,386	96,704	83,431	85,526
Mexico—						
Dolomite .. ..	46,005	67,200	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
United States—						
Magnesite—						
Crude .. ..	445,114	538,979	439,706	471,121	<i>n.a.</i>	<i>n.a.</i>
Caustic (b) (c) .. ..	58,978	71,493	77,508	120,426	143,000	<i>n.a.</i>
Dead-burned (b) (c)	451,706	534,794	514,038	636,370	751,797	801,193
Dolomite—						
Dead-burned (c) .. ..	1,740,411	1,770,321	1,658,427	1,740,137	1,935,288	1,908,329
Argentina—						
Dolomite .. ..	30,146	40,474	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Brazil—						
Magnesite .. ..	62,315	75,491	92,275	88,872	92,260	122,673
Dolomite .. ..	222,574	308,109	414,673	470,259	325,734	219,684
Colombia—						
Magnesite .. ..	<i>n.a.</i>	100	100	250	217	190
Dolomite .. ..	2,000	2,000	2,638	5,000	3,166	11,519
Peru—						
Dolomite .. ..	696	870	963	558	<i>n.a.</i>	<i>n.a.</i>
Uruguay—						
Dolomitic limestone ..	975	11,145	692	26,383	26,512	20,091
Formosa—						
Dolomite .. ..	14,771	21,832	29,366	30,416	32,168	49,778
Iran (a)—						
Magnesite .. ..	2,900	500	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Dolomite .. ..	1,675,402	1,844,771	1,767,642	1,723,823	1,805,922	1,650,000
Philippine Republic—						
Dolomite .. ..	12	7,137	4,916	5,009	5,138	<i>n.a.</i>
Turkey—						
Magnesite .. ..	15	2,155	9,586	17,634	38,451	74,393
New Caledonia—						
Magnesite .. ..	—	—	1,157	12	991	743

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

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

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

(c) Sold or used by producers.

(d) Derived partly from crude shown.

PRODUCTION OF MAGNESIUM

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom (a) ..	3,687	5,200	5,000	4,600	4,700	5,300
Canada .. .. .	6,508	6,817	7,871	7,951	8,351	9,940
<b>OTHER COUNTRIES</b>						
France .. .. .	2,109	2,042	2,087	1,715	973	2,780
Germany (Federal) (b) ..	300	400	500	500	500	500
Italy .. .. .	5,361	5,683	5,614	5,400	5,900	6,200
Norway .. .. .	10,154	14,302	14,352	17,795	20,604	26,015
U.S.S.R. (b) .. .. .	25,000	31,000	31,000	31,000	31,000	33,000
United States .. .. .	35,777	36,379	61,567	67,719	70,971	72,644
Japan .. .. .	2,110	2,212	2,054	2,401	2,891	3,700
<b>WORLD'S TOTAL* ..</b>	<b>91,000</b>	<b>104,000</b>	<b>130,000</b>	<b>139,000</b>	<b>146,000</b>	<b>160,000</b>

\*Excluding magnesium known to have been produced in China.

(a) Including re-melt alloys.

(b) "Metallgesellschaft" estimate.

## EXPORTS OF MAGNESITE, ETC.\*

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom—						
Magnesium and alloys..	2,152	1,807	2,013	(e) 2,967	(e) 2,324	1,740
Magnesium compounds	16,864	20,801	21,397	n.a.	n.a.	n.a.
Rhodesia (d)—						
Crude and calcined .. ..	6,195	12,057	8,826	9,363	23,395	33,563
Dolomite .. ..	n.a.	n.a.	n.a.	n.a.	115	n.a.
Tanzania—						
Crude .. ..	112	42	—	84	487	1,125
Canada—						
Magnesium .. ..	(£1,118,531)	5,384	5,867	(£1,217,459)	(£1,311,446)	(£1,478,028)
India (c)—						
Crude and calcined .. ..	29,071	30,956	31,270	34,823	37,466	39,597
Chloride .. ..	8	41	211	106	—	—
Malaya—						
Crude .. ..	493	—	59	63	614	952
Dolomite .. ..	—	—	228	230	4	5
Australia (b)—						
Crude and calcined .. ..	53	240	2,629	318	731	2,573
<b>OTHER COUNTRIES</b>						
Austria—						
Crude .. ..	728	593	761	413	754	567
Caustic .. ..	95,230	95,494	95,074	93,080	99,766	97,854
Dead-burned .. ..	212,142	234,126	185,998	161,699	233,223	270,915
Bricks .. ..	218,000	251,815	231,187	89,133	117,249	100,427
Dolomite .. ..	12,969	15,654	15,234	18,358	33,241	41,266
Belgium-Luxemburg						
E.U.—						
Crude .. ..	394	10	—	—	—	12
Calcined .. ..	55	83	25	36	43	8
Carbonate .. ..	4	—	—	4	—	63
Chloride .. ..	1	3	1	1	—	1
Oxide and hydroxide .. ..	1	—	1	4	1	81
Sulphate .. ..	74	48	15	25	30	22
Dolomite, crude .. ..	184,212	163,686	212,206	271,599	313,567	369,675
do. calcined .. ..	150,174	164,296	166,637	169,707	175,390	173,073
Czechoslovakia .. ..	122,000	114,000	116,000	101,000	142,000	190,000
France—						
Crude and calcined .. ..	108	778	810	435	216	734
Magnesium metal (a) .. ..	59	93	62	92	148	132
Carbonate .. ..	636	714	823	830	1,391	1,147
Chloride .. ..	1,937	1,440	2,662	1,139	1,394	1,017
Oxide and hydroxide .. ..	819	934	1,589	1,404	1,491	1,429
Sulphate .. ..	74	102	119	85	386	100
Dolomite, crude .. ..	12,326	15,347	17,085	18,725	21,108	19,575
do. calcined .. ..	4,387	4,685	5,835	5,346	3,750	3,821
Germany (Federal)—						
Crude and calcined .. ..	2,143	4,135	2,484	3,858	8,132	5,542
Magnesium metal .. ..	698	607	231	427	900	1,135
Carbonate .. ..	629	338	358	277	456	348
Chloride .. ..	17,838	19,233	33,807	63,091	72,706	70,920
Oxide and hydroxide .. ..	874	938	1,104	1,574	1,874	2,242
Sulphate .. ..	47,686	50,596	52,651	40,299	39,188	39,169
Dolomite .. ..	67,118	69,658	83,540	56,597	72,729	89,165
Kieserite .. ..	89,552	126,538	159,845	168,346	195,824	206,839
Germany (East)—						
Sulphate .. ..	20,083	21,110	20,309	20,297	21,438	24,402

\* Magnesite unless otherwise stated.

(a) Including alloys and scrap.

(b) Years ended June 30 of that stated.

(c) Years ended March 31 following that stated.

(d) Figures for years 1960 to 1963 relate to Rhodesia and Nyasaland.

(e) Including scrap.

## EXPORTS OF MAGNESITE, ETC. (cont.)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES						
(cont.)						
Greece—						
Crude .. .. .	18,336	18,166	23,065	20,040	20,602	n.a.
Calcined .. .. .	64,275	75,464	79,637	90,249	94,053	n.a.
Italy—						
Crude .. .. .	90	103	101	19	20	20
Calcined .. .. .	133	74	99	88	57	70
Magnesium metal including alloyed .. .. .	4,300	4,369	4,469	4,100	5,607	5,826
Carbonate .. .. .	155	106	127	138	147	109
Chloride .. .. .	22	22	16	10	16	5
Oxide .. .. .	294	317	253	290	348	9,191
Dolomite, crude .. .. .	2,128	2,285	2,415	} 11,344	{ 1,518	} 8,649
do. calcined .. .. .	5,849	7,694	8,725			
Netherlands—						
Crude .. .. .	628	722	775	802	1,073	1,185
Magnesium metal .. .. .	32	177	245	362	239	289
Calcined .. .. .	16,819	23,942	30,100	35,234	37,150	31,033
Chloride .. .. .	422	505	452	533	672	383
Sulphate .. .. .	836	889	374	716	425	493
Norway—						
Crude .. .. .	—	100	—	—	—	1
Magnesium metal .. .. .	12,768	12,157	14,526	r 18,889	22,748	24,608
Dolomite, crude .. .. .	43,053	45,782	58,834	65,095	76,303	76,547
Poland—						
Dolomite .. .. .	1,716	3,692	n.a.	2,226	2,426	2,557
Spain—						
Crude and calcined .. .. .	n.a.	14,715	7,733	17,571	28,620	30,382
Dolomite, crude .. .. .	n.a.	7,304	6,036	4,387	614	2,050
Sweden—						
Crude and calcined .. .. .	10	291	196	193	156	202
Dolomite .. .. .	4,340	5,286	5,793	3,836	4,373	3,662
Bricks .. .. .	494	433	111	441	12	14
U.S.S.R.—						
Magnesium metal .. .. .	1,300	1,800	1,900	2,100	2,800	3,400
Yugoslavia—						
Crude .. .. .	426	2,628	486	3,779	6,055	1,770
Ground and dead-burned .. .. .	62,262	55,718	61,787	84,285	119,744	117,396
Bricks .. .. .	10,114	10,347	13,651	11,533	25,904	47,054
South Africa—						
Crude and calcined .. .. .	75	—	10	—	7,612	2,309
Mexico—						
Crude .. .. .	346	856	49	—	—	—
United States—						
Dead-burned .. .. .	82,310	109,501	64,166	69,312	70,821	63,972
Magnesium metal (a) .. .. .	3,988	5,500	5,737	2,918	15,010	16,357
Brazil .. .. .	645	3,701	4,796	15,477	1,935	12,166
Uruguay—						
Dolomite, crude .. .. .	n.a.	—	14,724	10,472	13,717	4,724
Formosa—						
Carbonate .. .. .	n.a.	n.a.	n.a.	525	477	672
Japan—						
Dolomite .. .. .	1,056	2,037	1,403	1,816	2,279	2,241
Magnesium metal .. .. .	1	—	50	19	22	72
Carbonate .. .. .	1,288	2,109	2,438	3,334	2,448	3,414
Chloride and sulphate .. .. .	316	346	(b) 57	(b) 145	(b) 136	(b) 185
Korea (South)—						
Dolomite .. .. .	n.a.	n.a.	n.a.	4,527	11,810	19,401
Turkey—						
Carbonate .. .. .	15	1,613	3,297	10,437	28,482	19,393

(a) Including alloys and scrap.

(b) Sulphate only.

IMPORTS OF MAGNESITE, ETC.\*

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom—						
Crude and calcined ..	94,652	151,454	46,833	37,378	85,728	107,942
Magnesium (c) ..	4,391	5,480	5,516	(d) 4,605	(d) 3,861	(d) 4,570
Chloride ..	7,636	5,012	4,930	3,974	6,826	5,158
Dolomite ..	n.a.	n.a.	n.a.	10,051	12,061	13,768
Zambia—						
Crude ..	n.a.	n.a.	n.a.	n.a.	n.a.	253
Salts ..	n.a.	n.a.	n.a.	n.a.	n.a.	75
Canada—						
Calcined and dead-burned ..	24,133	22,125	24,613	16,644	27,482	32,161
Magnesium metal ..	n.a.	n.a.	n.a.	n.a.	1,425	1,465
do. alloys ..	n.a.	n.a.	n.a.	n.a.	165	148
	(£123,731)	(£150,252)	(£59,815)	(£60,178)	(£255,000)	(£187,799)
Oxide ..	1,223	1,069	780	681	3,237	812
Carbonate ..	2,173	2,314	2,505	3,001	n.a.	n.a.
Sulphate ..	1,162	1,674	1,889	10,581	n.a.	n.a.
Other salts ..	(£252,179)	(£173,117)	(£153,600)	(£71,261)	(£276,825)	(£359,803)
Bricks ..	n.a.	n.a.	n.a.	n.a.	13,387	26,568
Dolomite, calcined ..						
Trinidad and Tobago—						
Crude ..	50	49	39	31	80	n.a.
Hong Kong—						
Crude ..	r —	73	r 59	99	220	236
India (b)—						
Crude ..	4	—	—	—	—	16
Magnesium metal ..	76	85	147	270	157	79
Carbonate ..	1,206	782	676	439	550	425
Chloride ..	2	21	—	—	—	9
Oxides ..	50	87	43	37	53	136
Other salts ..	37	22	26	69	34	n.a.
Malaya—						
Crude ..	34	24	21	152	281	554
Dolomite ..	—	—	179	157	104	185
Pakistan—						
Chloride ..	47	131	32	130	140	n.a.
Sulphate ..	428	129	12	n.a.	3	n.a.
Other salts ..	179	n.a.	n.a.	248	41	n.a.
Australia (a)—						
Crude and calcined ..	8,743	12,815	12,558	3,863	50,054	41,673
Magnesium metal and powder ..	90	148	125	203	489	455
Oxide ..	304	222	269	389	255	234
Carbonate ..	143	164	135	153	201	257
Chloride ..	—	—	—	—	—	—
Sulphate ..	248	—	—	—	218	211
New Zealand—						
Crude ..	26	46	302	(a) 146	(a) 174	n.a.
Sulphate ..	848	974	689	(a) 590	(a) 596	n.a.
Other salts ..	309	353	n.a.	(a) 1,414	(a) 1,750	n.a.
Irish Republic—						
Magnesium salts ..	344	349	378	n.a.	n.a.	n.a.
<b>OTHER COUNTRIES</b>						
Austria—						
Crude ..	11	2,148	4,176	10,621	25,751	19,905
Magnesium metal ..	372	333	318	451	506	532
Chloride ..	2,052	1,840	2,481	1,764	1,685	1,468
Dolomite ..	2,250	2,246	1,982	2,470	3,084	3,058

\* Magnesite unless otherwise stated.

(a) Years ended June 30 of that stated.

(c) Including alloys.

(b) Years ended March 31 following that stated.

(d) Including scrap.

## IMPORTS OF MAGNESITE, ETC. (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
<b>Belgium-Luxemburg</b>						
E.U.—						
Crude .. .. .	873	197	406	757	481	244
Calcined .. .. .	3,057	4,299	3,545	2,816	3,569	6,064
Bricks .. .. .	17,235	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Magnesium metal .. .. .	428	370	510	479	714	706
Carbonate .. .. .	225	243	249	261	284	300
Chloride .. .. .	1,761	382	458	646	668	849
Oxide and hydroxide .. .. .	519	407	455	642	734	913
Sulphate .. .. .	3,640	1,727	1,807	2,128	2,076	1,911
Dolomite, crude .. .. .	5,524	7,028	8,519	7,341	9,503	6,997
do. calcined .. .. .	6,541	5,863	5,292	5,527	6,874	11,720
<b>Denmark—</b>						
Crude .. .. .	2,513	2,419	2,506	3,315	3,756	4,640
Carbonate .. .. .	104	109	90	1,005	107	104
Chloride .. .. .	537	831	486	537	445	707
Sulphate .. .. .	1,409	1,474	1,754	2,210	4,760	2,488
Dolomite .. .. .	12,520	11,231	17,457	16,669	17,823	15,373
<b>Finland—</b>						
Crude and calcined .. .. .	906	1,140	1,862	1,884	1,546	1,998
Bricks .. .. .	2,920	2,896	3,875	3,574	3,960	4,755
Carbonate .. .. .	87	105	88	60	63	113
Chloride .. .. .	222	411	214	222	263	288
Sulphate .. .. .	215	239	215	309	370	1,202
<b>France—</b>						
Crude .. .. .	4,553	3,660	4,456	3,163	1,689	767
Calcined .. .. .	20,131	23,232	23,729	22,714	33,114	41,516
Bricks .. .. .	29,686	<i>n.a.</i>	<i>n.a.</i>	29,477	32,540	36,313
Magnesium metal (a) .. .. .	467	456	1,176	1,847	2,622	1,183
Carbonate .. .. .	263	270	217	275	234	221
Chloride .. .. .	42	40	96	30	121	370
Oxide and hydroxide .. .. .	374	422	420	567	472	311
Sulphate .. .. .	2,371	2,103	2,765	2,621	1,974	3,041
Dolomite, crude .. .. .	18,157	29,999	47,669	49,733	50,063	49,470
do. calcined .. .. .	144,775	135,460	139,253	132,452	131,113	125,815
<b>Germany (Federal)—</b>						
Crude .. .. .	1,812	1,942	1,371	1,182	8,745	3,018
Caustic .. .. .	108,902	108,487	110,152	102,475	113,603	121,437
Dead-burned .. .. .	82,277	97,318	99,274	97,513	174,708	220,402
Magnesium metal (a) .. .. .	26,301	25,980	29,538	30,528	33,963	40,398
Carbonate .. .. .	429	291	210	223	783	949
Chloride .. .. .	4	—	33	92	15	17
Oxide and hydroxide .. .. .	1,043	2,061	3,170	4,007	2,361	2,081
Sulphate .. .. .	3	2	3	17	41	50
Dolomite .. .. .	23,298	103,213	59,155	117,379	116,361	118,524
<b>Hungary—</b>						
Dead-burned .. .. .	49,468	58,605	68,226	64,118	58,037	62,375
<b>Italy—</b>						
Crude .. .. .	8,069	11,328	14,913	12,413	15,282	12,780
Calcined .. .. .	27,160	41,434	32,005	26,054	29,363	35,996
Chloride .. .. .	3,352	3,399	3,917	4,259	4,204	4,060
Oxide .. .. .	173	205	271	379	307	331
Sulphate .. .. .	1,330	1,268	1,807	2,518	4,956	5,834
Dolomite .. .. .	649	963	2,132	1,065	1,070	429

(a) Including alloys and scrap.

## IMPORTS OF MAGNESITE, ETC. (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
<b>Netherlands—</b>						
Crude .. .. .	2,268	2,242	1,910	2,150	2,519	2,808
Calcined .. .. .	22,629	31,488	34,188	37,580	48,778	40,123
Bricks .. .. .	12,568	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Magnesium metal .. .. .	189	154	309	387	485	388
Carbonate .. .. .	533	441	455	457	6,576	458
Oxide and hydroxide .. .. .	287	343	238	347	410	444
Sulphate .. .. .	5,365	6,232	7,122	8,225	7,285	6,562
Chloride .. .. .	2,092	2,264	2,386	2,593	2,688	2,888
Dolomite, crude .. .. .	190,471	157,367	204,108	210,260	260,935	361,519
do. calcined .. .. .	43,099	47,007	45,894	49,478	47,650	53,840
<b>Norway—</b>						
Crude and calcined .. .. .	2,948	4,864	7,547	7,221	7,643	3,895
Chloride .. .. .	305	473	14,061	41,477	51,500	51,890
Sulphate .. .. .	2,974	5,754	8,445	482	381	268
Dolomite .. .. .	3,043	3,414	3,695	6,657	12,326	15,580
<b>Poland—</b>						
Calcined and caustic .. .. .	59,200	78,200	<i>n.a.</i>	123,700	120,600	157,095
Magnesium metal .. .. .	100	210	<i>n.a.</i>	422	276	295
Chloride .. .. .	5,474	5,896	<i>n.a.</i>	7,860	5,867	6,376
<b>Portugal—</b>						
Crude and calcined .. .. .	200	673	1,066	750	533	243
Carbonate .. .. .	105	111	76	107	123	117
Chloride .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Oxide .. .. .	508	271	29	18	73	245
Sulphate .. .. .	1,581	1,141	1,240	1,586	1,728	1,836
<b>Spain—</b>						
Dolomite, crude .. .. .	<i>n.a.</i>	235	1,191	1,885	1,809	687
do. calcined .. .. .	<i>n.a.</i>	24	32	157	163	146
<b>Sweden—</b>						
Crude and calcined .. .. .	2,397	5,369	4,417	6,722	9,204	7,872
Bricks .. .. .	21,777	24,350	22,619	20,121	28,568	38,804
Magnesium metal .. .. .	404	411	487	490	582	471
Carbonate .. .. .	332	206	223	167	201	188
Chloride .. .. .	1,609	1,243	1,243	1,482	1,154	2,157
Sulphate .. .. .	1,924	2,443	2,302	4,512	11,976	9,372
Dolomite .. .. .	11,600	22,303	24,488	20,043	31,187	27,443
<b>Switzerland—</b>						
Magnesium metal .. .. .	417	465	689	573	745	510
Calcined .. .. .	2,699	3,467	3,933	3,557	4,242	3,867
Carbonate .. .. .	186	205	184	126	283	191
Chloride .. .. .	4,448	4,991	5,596	5,547	5,729	4,650
Sulphate .. .. .	1,291	1,327	1,632	923	641	747
Dolomite, calcined .. .. .	7,198	7,854	8,094	7,777	8,870	11,670
<b>U. S. S. R.—</b>						
Crude (a) .. .. .	15,000	55,100	69,200	96,000	78,800	135,700
<b>Yugoslavia—</b>						
Bricks .. .. .	134	5	10	2,015	—	7
Magnesium metal .. .. .	292	574	153	269	487	651
<b>Algeria—</b>						
Calcined .. .. .	8	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Dolomite .. .. .	2,489	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
<b>Angola—</b>						
Sulphate .. .. .	74	20	9	23	1,032	49
<b>Egypt—</b>						
Magnesite and dolomite .. .. .	6,309	3,663	4,551	4,587	623	<i>n.a.</i>
Sulphate .. .. .	494	197	696	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

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



## IMPORTS OF MAGNESITE, ETC. (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Morocco—						
Crude .. ..	61	78	59	2	<i>n.a.</i>	54
Chloride .. ..	46	3	204	346	262	228
Sulphate .. ..	92	147	123	227	168	362
Dolomite .. ..	541	394	448	692	<i>n.a.</i>	154
South Africa—						
Crude .. ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Carbonate .. ..	6,949	13,285	10,214	9,832	25,744	<i>n.a.</i>
Chloride .. ..	179	184	125	174	<i>n.a.</i>	<i>n.a.</i>
Sulphate .. ..	1,677	1,379	1,321	904	<i>n.a.</i>	<i>n.a.</i>
Mexico—						
Crude .. ..	4,120	3,418	8,222	56	53	<i>n.a.</i>
Magnesium metal .. ..	350	322	357	586	476	<i>n.a.</i>
Oxide .. ..	605	1,535	1,139	1,187	1,011	<i>n.a.</i>
Sulphate .. ..	173	286	263	370	289	<i>n.a.</i>
United States—						
Crude .. ..	18	52	1,493	<i>n.a.</i>	2	45
Calcined .. ..	3,689	3,977	6,908	8,868	8,379	10,625
Dead-burned .. ..	102,346	46,437	87,283	77,348	53,657	64,261
Bricks .. ..	13,920	11,878	13,431	10,266	16,439	18,694
Magnesium metal, etc. .. ..	358	897	2,106	1,652	1,988	2,278
Oxide .. ..	238	221	163	83	113	132
Carbonate, precipitated .. ..	309	305	355	556	993	1,116
Chloride .. ..	1,048	903	1,316	596	671	327
Sulphate .. ..	9,037	8,956	8,301	7,628	8,526	5,929
do. calcined .. ..	24,255	44,803	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Kieserite .. ..	12,561	6,890	45,366	21,495	37,478	44,966
Argentina—						
Crude .. ..	1,124	2,549	2,718	2,367	4,712	4,992
Carbonate .. ..	346	370	347	368	536	108
Chloride .. ..	183	100	50	25	113	124
Oxide .. ..	12	9	31	23	44	37
Brazil—						
Magnesium metal .. ..	56	91	601	1,779	1,478	1,309
Carbonate .. ..	515	205	11	229	170	168
Chloride .. ..	43	61	140	58	64	54
Oxide .. ..	77	92	87	117	102	79
Sulphate .. ..	443	1,015	552	772	410	112
Chile—						
Crude .. ..	51	54	20	52	<i>n.a.</i>	<i>n.a.</i>
Calcined .. ..	2,628	2,308	3,579	3,406	<i>n.a.</i>	<i>n.a.</i>
Sulphate .. ..	2	4	—	—	<i>n.a.</i>	<i>n.a.</i>
Dolomite, crude .. ..	39	30,781	7,538	11,521	<i>n.a.</i>	<i>n.a.</i>
do. calcined .. ..	5,333	86,854	2,955	3,347	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Crude and calcined .. ..	25	48	19	36	47	52
Carbonate .. ..	14	114	14	14	9	14
Chloride .. ..	13	17	44	58	64	97
Oxide .. ..	45	118	121	159	127	155
Sulphate .. ..	297	513	338	600	296	197
Dolomite .. ..	4,527	4,607	2,605	4,724	4,524	1,966
Peru—						
Crude and calcined .. ..	21	906	1,172	941	990	1,187
Carbonate .. ..	28	34	41	46	55	63
Oxide .. ..	4	3	8	54	26	—
Hydroxide .. ..	45	49	16	27	73	227
Sulphate .. ..	121	153	301	67	128	285
Chloride .. ..	4	4	8	16	27	17
Venezuela—						
Crude .. ..	239	378	754	635	804	2,146
Sulphate .. ..	255	358	350	375	329	766

## IMPORTS OF MAGNESITE, ETC. (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Iran (a)—						
Sulphate .. ..	<i>n.a.</i>	167	260	256	319	451
Israel—						
Crude .. ..	312	893	1,319	948	1,443	2,276
Japan—						
Crude .. ..	1,806	3,396	2,914	2,849	4,408	4,442
Dead-burned .. ..	97,491	90,320	67,062	20,234	19,220	21,316
Magnesium metal .. ..	—	6	3	488	917	560
Korea (South)—						
Crude .. ..	553	499	1,695	2,044	1,972	1,250
Philippine Republic—						
Crude and calcined .. ..	<i>n.a.</i>	618	741	768	387	<i>n.a.</i>
Carbonate .. ..	170	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sulphate .. ..	188	<i>n.a.</i>	<i>n.a.</i>	180	584	<i>n.a.</i>
Dolomite .. ..	<i>n.a.</i>	3,056	2,263	2,803	2,656	<i>n.a.</i>
Syria—						
Sulphate .. ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	40	<i>n.a.</i>
Thailand—						
Chloride .. ..	54	59	66	41	67	59
Sulphate .. ..	95	344	321	393	677	396
Turkey—						
Carbonate .. ..	17	35	70	43	56	64
Chloride .. ..	56	94	212	144	205	169
Oxide .. ..	59	57	12	10	27	28
Sulphate .. ..	292	141	535	422	381	369

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

**MANGANESE**  
**PRODUCTION OF MANGANESE ORE**  
(including Ferruginous Manganese Ore)

Long tons

Producing Country	Estimated Manganese Content						
	1960	1961	1962	1963	1964	1965	1966
<b>COMMONWEALTH COUNTRIES</b>							
Bechuanaland ..	22,350	28,337	23,623	10,605	27,356	8,676	n.a.
Ghana ..	545,000	431,600	373,400	401,000	454,800	592,500	262,000
Rhodesia ..	1,496	183	7,123	—	143	n.a.	n.a.
Zambia ..	52,945	52,247	56,636	34,694	37,410	30,326	25,500
British Guiana ..	122,726	212,126	271,103	116,881	116,881	166,194	89,000
India ..	1,179,832	1,210,597	r1,189,912	1,083,395	1,282,969	1,479,831	500,000
Goa ..	105,294	98,027	86,368	192,000	100,024	109,375	37,000
Malaya ..	2,877	6,366	304	6,872	—	2,666	n.a.
Pakistan ..	292	338	925	1,387	980	—	100
Australia ..	60,646	87,411	71,646	r 36,061	61,109	99,753	29,600
New Zealand ..	120	—	—	—	—	—	n.a.
Papua ..	48	2	—	3	—	—	100
Fiji ..	11,672	3,455	1,073	3,233	897	5,392	n.a.
New Hebrides (b) ..	—	4,000	68,530	87,965	54,082	76,534	5,500
TOTAL ..	2,105,300	2,134,700	r2,150,600	r1,998,000	2,136,700	2,571,000	—
<b>OTHER COUNTRIES</b>							
Bulgaria ..	24,600	36,400	34,500	37,900	51,200	(a)50,000	n.a.
Czechoslovakia ..	152,000	99,000	82,000	84,000	83,000	79,000	20,000
France ..	1,068	892	1,340	1,285	1,257	1,378	235
Greece ..	30,723	27,853	13,480	18,998	a 30,000	(a)70,000	12,000
Hungary ..	121,329	122,866	127,185	149,965	168,492	210,000	5,000
Italy ..	48,715	48,389	43,719	44,525	47,028	47,055	n.a.
Portugal ..	7,319	11,154	11,309	8,423	6,885	7,664	14,600
Romania ..	172,000	203,000	186,000	256,000	a 100,000	a 100,000	3,074
Spain ..	21,952	15,261	12,590	15,051	15,859	16,886	60,000
Sweden ..	8,523	16,399	3,266	7,201	5,850	25,500	7,500
U.S.S.R. ..	5,785,000	5,878,000	6,301,000	6,558,000	6,984,000	a 7,700,000	2,600,000
Yugoslavia ..	13,104	13,925	14,605	8,004	7,661	7,969	n.a.
Angola ..	26,157	21,879	12,668	—	—	—	10,500
<b>Estimated Manganese Content</b>							
	1960	1961	1962	1963	1964	1965	1966
Bechuanaland ..	n.a.	207,000	179,000	n.a.	n.a.	n.a.	n.a.
Ghana ..	n.a.	n.a.	n.a.	192,000	218,000	284,000	n.a.
Rhodesia ..	25,500	25,000	27,000	18,400	20,200	16,400	n.a.
Zambia ..	89,000	89,000	114,000	59,000	49,000	70,000	n.a.
British Guiana ..	500,000	500,000	500,000	450,000	540,000	620,000	n.a.
India ..	37,000	35,000	30,000	64,000	34,000	37,000	n.a.
Goa ..	n.a.	n.a.	n.a.	n.a.	—	—	n.a.
Malaya ..	100	100	300	400	300	—	—
Pakistan ..	29,600	41,700	34,600	17,700	30,800	49,300	—
Australia ..	n.a.	n.a.	—	—	—	—	—
New Zealand ..	n.a.	n.a.	—	n.a.	—	—	—
Papua ..	5,500	1,600	500	1,500	400	2,600	—
Fiji ..	—	1,000	17,000	r 26,000	16,000	23,000	—
New Hebrides (b) ..	—	—	—	—	—	—	—
TOTAL ..	—	—	—	—	—	—	—
<b>Estimated Manganese Content</b>							
	1960	1961	1962	1963	1964	1965	1966
Bulgaria ..	n.a.	15,000	15,000	n.a.	n.a.	n.a.	n.a.
Czechoslovakia ..	20,000	197	300	280	277	303	15,000
France ..	12,000	11,000	5,000	8,000	13,000	30,000	15,000
Greece ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Hungary ..	14,600	r 13,600	13,100	13,300	14,100	14,100	13,300
Italy ..	3,074	4,685	4,750	3,201	2,616	2,900	3,201
Portugal ..	60,000	71,000	65,000	90,000	35,000	35,000	65,000
Romania ..	7,500	5,000	4,200	5,000	5,000	5,400	5,000
Spain ..	1,278	2,641	572	1,210	860	1,210	860
Sweden ..	2,600,000	2,650,000	2,840,000	2,950,000	3,140,000	3,500,000	2,950,000
U.S.S.R. ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Yugoslavia ..	10,500	9,000	5,000	—	—	—	—
Angola ..	—	—	—	—	—	—	—

(a) United States Bureau of Mines' estimate.

(b) Production of ore as mined. Production of sintered ore (about 50% Mn) was as follows (long tons): 1962—19,517; 1963—25,015; 1964—59,312; 1965—65,000

PRODUCTION OF MANGANESE ORE (cont.)

Long tons

Producing Country	Estimated Manganese Content						1965	1964	1963	1962	1961	1960	1965	1964	1963	1962	1961	1960
	1960	1961	1962	1963	1964	1965												
OTHER COUNTRIES—(cont.)																		
Congo Republic ..	375,599	311,246	311,203	265,768	304,808	371,612	180,000	150,000	150,000	150,000	150,000	180,000	150,000	130,000	150,000	150,000	150,000	180,000
Egypt ..	271,648	274,049	182,749	47,883	322,831	179,268	85,000	80,000	55,000	80,000	80,000	85,000	80,000	15,000	95,000	55,000	80,000	55,000
Ethiopia ..	9,109	6,889	5,905	—	—	—	5,000	3,500	3,000	3,500	3,500	5,000	3,500	—	—	—	—	—
Gabon ..	—	—	200,034	626,533	944,421	1,260,174	—	—	—	—	—	—	—	—	—	—	—	—
Ivory Coast ..	60,600	122,770	105,274	136,867	134,407	165,688	29,000	56,000	51,000	56,000	56,000	29,000	56,000	66,000	482,000	102,000	51,000	643,000
Morocco ..	475,454	562,064	461,944	329,658	335,691	369,944	220,000	260,000	210,000	260,000	260,000	220,000	260,000	150,000	150,000	210,000	150,000	170,000
South Africa ..	1,175,118	1,395,294	1,444,606	1,336,420	1,444,512	1,747,395	431,000	540,000	567,800	540,000	540,000	431,000	540,000	558,600	600,000	567,800	540,000	700,000
South West Africa	60,214	44,906	—	—	—	3,737	28,900	21,600	—	21,600	21,600	28,900	21,600	—	—	—	21,600	1,800
Sudan ..	—	—	1,000	(d) 250	(d) 8,500	1,000	—	—	—	—	—	—	—	n.a.	n.a.	n.a.	—	n.a.
Costa Rica (a) ..	—	—	—	590	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mexico ..	d 153,000	d 139,200	d 165,100	d 169,000	d 184,400	d 181,200	70,721	67,619	61,876	67,619	67,619	70,721	67,619	53,483	63,077	61,876	67,619	57,882
United States (c) ..	152,803	146,191	194,360	357,848	208,734	n.a.	51,991	32,191	33,621	32,191	32,191	51,991	32,191	47,084	34,707	33,621	32,191	n.a.
Argentina ..	r 47,688	39,274	28,783	37,949	36,679	28,314	14,000	r 11,000	12,000	11,000	11,000	14,000	r 11,000	16,000	16,000	12,000	11,000	12,000
Bolivia (a) ..	—	47	260	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Brazil ..	983,383	1,000,301	1,152,199	1,234,579	1,330,428	1,374,013	443,000	450,000	518,000	450,000	450,000	443,000	450,000	556,000	599,000	518,000	450,000	618,000
Chile ..	45,173	r 31,290	r 42,640	r 45,830	19,547	16,326	20,000	14,000	19,000	14,000	14,000	20,000	14,000	21,000	9,000	19,000	14,000	7,000
Peru ..	1,477	3,463	6,610	r 510	405	551	660	1,600	3,000	1,600	1,600	660	1,600	200	200	3,000	1,600	200
Burma (b) ..	289	175	190	n.a.	—	n.a.	100	70	80	70	70	100	70	n.a.	—	80	70	n.a.
China (d) ..	1,180,000	790,000	790,000	980,000	980,000	980,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Indonesia ..	10,739	13,090	6,407	r 2,800	(d) 500	3,500	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Iran (e) ..	7,600	2,067	1,969	3,000	(d) 3,000	3,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Japan ..	318,867	299,318	303,716	272,347	280,202	302,000	122,000	108,000	105,000	108,000	108,000	122,000	108,000	94,000	94,000	105,000	108,000	100,000
Korea (South) ..	1,361	1,355	986	4,089	4,244	6,585	500	500	400	500	500	500	500	1,600	1,700	400	500	2,600
Philippine Republic	17,106	18,737	11,750	7,545	7,879	48,938	7,500	8,300	5,200	8,300	8,300	7,500	8,300	3,400	3,500	5,200	3,400	22,000
Thailand ..	520	524	2,853	6,505	10,880	32,901	280	280	280	280	280	280	280	3,400	5,800	1,500	3,400	17,400
Turkey ..	27,778	30,000	20,912	6,204	19,973	13,995	11,000	12,000	9,000	12,000	12,000	11,000	12,000	3,000	9,000	9,000	12,000	6,000
TOTAL	11,800,000	11,700,000	12,300,000	13,100,000	14,100,000	15,600,000	—	—	—	—	—	—	—	—	—	—	—	—
WORLD'S TOTAL ..	13,900,000	13,800,000	14,500,000	15,100,000	16,200,000	18,200,000	—	—	—	—	—	—	—	—	—	—	—	—

Manganese ore is also produced in Cuba and North Vietnam.

(a) Exports.

(b) Concentrates.

(c) Shipments.

(d) United States Bureau of Mines' estimate.

(e) Years ended March 20 following that stated.

## EXPORTS OF MANGANESE ORE, ETC.

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—						
Metal .. .. .	190	175	25	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Spiegeleisen .. .. .	1,621	662	873	76	60	593
Ferro-manganese .. .. .						
Ghana—						
Ore .. .. .	546,715	385,073	476,379	387,866	497,993	564,797
Zambia ( <i>f</i> )—						
Ore .. .. .	40,525	41,577	45,138	42,874	26,546	32,113
Canada—						
Ferro-manganese .. .. .	651	212	121	9	2,999	3,408
British Guiana—						
Ore and concentrates .. .. .	76,765	187,383	230,162	( <i>d</i> ) 191,892	136,124	157,607
Cyprus—						
Ore and concentrates .. .. .	—	—	—	104	—	—
India ( <i>b</i> )—						
Ore .. .. .	1,025,088	789,148	616,843	634,422	1,011,827	630,936
Ferruginous manganese ore .. .. .	123,449	160,168	121,899	304,902	533,795	699,593
Ferro-manganese .. .. .	47,073	55,406	12,093	21,581	86,768	55,532
Goa—						
Ore .. .. .	155,313	107,000	118,429	( <i>e</i> )	( <i>e</i> )	( <i>e</i> )
Malaya—						
Ore .. .. .	2,953	—	2,000	6,885	—	1,100
Australia ( <i>a</i> )—						
Ore .. .. .	52,598	46,976	87,361	25,054	27,157	54,737
Fiji—						
Ore .. .. .	1,788	2,265	10,335	10,182	761	4,809
New Hebrides—						
Concentrates—						
Unsintered .. .. .	—	—	—	—	4,630	7,252
Sintered .. .. .	—	—	14,188	22,791	64,703	69,990
Papua ( <i>a</i> )—						
Ore .. .. .	—	1,830	2	2	6	<i>n.a.</i>
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Ore .. .. .	2,733	32	2,188	2,438	1,987	7,397
Ferro-manganese .. .. .	16,017	16,644	22,946	29,017	36,731	43,021
Ferro-silico-manganese .. .. .	4,935	7,260	7,743	4,912	<i>n.a.</i>	<i>n.a.</i>
Spiegeleisen .. .. .	3,290	4,253	4,163	1,964	4,080	1,076
France—						
Ore ( <i>c</i> ) .. .. .	4,815	756	1,596	1,812	1,731	1,567
Metal .. .. .	108	29	20	199	1,027	1,565
Ferro-manganese .. .. .	132,693	156,294	152,040	147,755	192,878	200,471
Spiegeleisen .. .. .	12,036	14,142	17,332	12,733	15,821	16,872
Germany (Federal)—						
Ore .. .. .	5,014	6,477	5,885	6,600	7,197	8,869
Metal .. .. .	495	789	1,163	1,224	2,118	2,589
Ferro-manganese .. .. .	<i>n.a.</i>	25,764	30,440	66,252	61,279	54,904
Spiegeleisen .. .. .	<i>n.a.</i>	9,519	16,771	17,619	10,034	9,214
Greece—						
Ore .. .. .	30,395	27,189	7,657	509	13,179	21,235
Italy—						
Ore ( <i>c</i> ) .. .. .	262	547	634	726	668	1,035
Ferro-manganese .. .. .	3,123	2,352	1,276	2,008	7,466	6,969
Netherlands—						
Ore ( <i>c</i> ) .. .. .	5,190	5,562	5,590	6,983	8,452	8,589

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

 (*c*) Including manganiferous iron ore.

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

 (*d*) Provisional.

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

 (*f*) Figures for the years 1960 to 1963 relate to Rhodesia and Nyasaland.

## EXPORTS OF MANGANESE ORE, ETC. (cont.)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Norway—						
Ore .. .. .	<i>n.a.</i>	400	200	2,600	4,300	8,237
Ferro-manganese ..	50,497	47,360	45,844	59,499	72,177	100,190
Ferro-silico-manganese	80,466	84,891	70,570	83,022	105,999	116,953
Portugal—						
Ore .. .. .	4,321	1,976	866	6,048	8,326	2,839
Roumania—						
Ore .. .. .	65,500	73,600	71,000	70,900	72,700	78,600
Sweden—						
Ore .. .. .	717	743	484	1,290	581	24,495
Metal .. .. .	92	30	17	69	129	62
Ferro-manganese ..	1,650	2,540	2,537	4,281	2,913	3,129
Ferro-silico-manganese	25	15	25	20	1,004	25
U.S.S.R.—						
Ore .. .. .	957,600	881,800	947,800	970,400	963,500	1,004,000
do. (dioxide) .. ..	8,900	9,100	11,300	8,800	12,900	15,600
Ferro-manganese ..	50,000	50,800	54,800	56,000	58,700	66,200
Yugoslavia—						
Ferro-manganese ..	10,925	7,037	7,693	8,130	4,631	3,038
Silico-manganese ..	1,162	2,504	1,794	4,564	1,812	2,105
Angola—						
Ore .. .. .	33,546	21,828	9,375	2,869	9,484	848
Congo Republic—						
Ore (a) .. .. .	300,000	300,000	250,000	350,000	325,000	400,000
Egypt—						
Ore .. .. .	205,846	235,969	157,095	120,830	179,566	160,505
Gabon—						
Ore .. .. .	—	—	91,108	594,139	867,823	1,131,308
Ivory Coast—						
Ore .. .. .	22,365	107,687	96,018	103,638	114,530	166,907
Morocco—						
Ore .. .. .	381,146	443,046	427,156	344,135	281,109	315,869
South Africa—						
Ore .. .. .	867,355	838,834	820,508	922,200	870,787	993,244
Metal .. .. .	<i>n.a.</i>	<i>n.a.</i>	3,604	4,460	4,749	<i>n.a.</i>
Ferro-manganese ..	103,511	130,214	104,861	77,444	120,310	<i>n.a.</i>
Sudan—						
Ore .. .. .	394	—	—	—	—	—
Costa Rica—						
Ore .. .. .	—	—	—	590	—	—
Cuba—						
Ore .. .. .	8,500	13,216	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Mexico—						
Ore .. .. .	162,816	174,359	130,322	108,024	118,316	87,000
<i>Mn content</i> .. ..	70,686	58,872	61,060	53,085	53,749	<i>n.a.</i>
United States—						
Ore .. .. .	4,588	6,722	7,717	7,407	12,896	12,634
Metal .. .. .	2,182	1,997	1,976	1,841	3,124	2,167
Ferro-manganese ..	670	419	3,673	605	3,485	2,922
Spiegeleisen .. ..	132	469	638	1,050	701	<i>n.a.</i>
Bolivia—						
Ore .. .. .	—	47	260	—	—	—
Brazil—						
Ore .. .. .	852,636	857,784	747,913	827,431	819,763	1,050,899
Ferro-manganese ..	—	49	4,937	—	—	7,145
Chile—						
Ore .. .. .	20,735	7,511	9,723	4,651	3,412	11,976
Ferro-manganese ..	2,971	3,673	13,509	10,818	5,526	2,723
Silico-manganese ..	869	644	—	—	<i>n.a.</i>	<i>n.a.</i>
Peru—						
Ore .. .. .	—	913	6,858	694	831	463

(a) Estimated.

## EXPORTS OF MANGANESE ORE, ETC. (cont.)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Venezuela—						
Ore .. .. .	1	—	—	—	—	—
Indonesia—						
Ore .. .. .	24,400	4,200	6,517	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Iran (a)—						
Ore .. .. .	5,708	1,250	246	11,950	26,431	34,459
Japan—						
Ore .. .. .	842	960	805	478	50	356
Ferro-manganese ..	38,914	14,249	21,091	14,158	8,724	15,072
Ferro-silico-manganese	2,684	772	6,463	3,701	427	712
Korea (South)—						
Ore .. .. .	198	492	<i>n.a.</i>	276	1,097	2,766
Philippine Republic—						
Ore .. .. .	17,405	24,720	8,370	5,257	7,666	16,276
Thailand—						
Ore .. .. .	58	108	296	2,712	6,629	<i>n.a.</i>
Turkey—						
Ore .. .. .	28,282	19,011	22,127	11,854	17,854	14,707

(a) Years ended March 20 following that stated.

## IMPORTS OF MANGANESE ORE, ETC.

Long tons.

Importing Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore .. .. .	528,856	470,929	342,390	305,196	524,393	495,308
Metal .. .. .	1,511	1,655	1,056	2,061	3,135	2,077
Ferro-manganese	} 35,375	} 41,830	} 44,206	} 54,205	} 62,037	} 80,770
Spiegeleisen .. .. .						
Silico-manganese .. .. .	29,185	26,497	28,056	27,297	35,837	32,728
Canada—						
Ore .. .. .	50,313	67,871	81,004	95,439	<i>n.a.</i>	<i>n.a.</i>
<i>Mn content</i> .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	56,083	79,893
Ferro-manganese and spiegeleisen .. .. .	13,835	10,772	13,332	20,211	19,491	30,859
Silico-manganese .. .. .	2,112	1,940	2,434	2,102	1,557	703
Hong Kong—						
Ore .. .. .	<i>r(e)</i> 130	<i>r</i> 30	<i>r</i> 1	<i>r</i> —	406	151
India (c)—						
Ore .. .. .	5,442	6,412	14,430	12,673	4,706	761
Ferro-manganese .. .. .	155	519	453	677	462	534
Malaya—						
Ore .. .. .	6,634	3,643	2,295	2,726	3,387	3,424
Australia (b)—						
Ore .. .. .	404	1,520	12,151	54,365	49,542	73,340
Metal .. .. .	96	78	177	208	346	327
Ferro-manganese .. .. .	18,634	36,026	31,300	6,364	11,672	9,575
OTHER COUNTRIES						
Austria—						
Ore .. .. .	65,414	55,408	14,018	681	621	949
Spiegeleisen .. .. .	1,728	1,698	2,255	2,331	2,654	3,063
Ferro-manganese .. .. .	9,473	8,679	8,481	9,407	11,784	11,230
Belgium-Luxemburg						
E.U.—						
Ore (a) .. .. .	219,132	268,274	205,208	219,683	266,806	304,467
Ferro-manganese .. .. .	58,558	52,644	56,141	60,318	74,556	67,986
Ferro-silico-manganese .. .. .	3,378	3,766	3,578	3,601	4,488	7,523
Spiegeleisen .. .. .	7,099	16,143	22,537	19,108	18,284	13,768
Czechoslovakia—						
Ore .. .. .	179,000	215,000	206,000	232,000	314,000	329,000
Denmark—						
Ore .. .. .	7,134	1,712	5,660	6,327	8,450	6,260
Ferro-manganese .. .. .	1,248	1,241	1,599	1,242	945	508
Ferro-silico-manganese .. .. .	1,389	1,187	710	1,690	1,951	2,252
Finland—						
Ferro-manganese and spiegeleisen .. .. .	3,338	2,194	2,545	2,598	1,530	1,789
France—						
Ore (a) .. .. .	765,232	690,313	705,956	701,050	778,700	841,229
Metal .. .. .	45	315	302	953	603	714
Ferro-manganese .. .. .	6,333	7,276	7,626	9,963	10,098	8,819
Spiegeleisen .. .. .	7,317	2,151	2,022	2,658	2,046	1,387
Germany (Federal)—						
Ore .. .. .	350,870	500,742	440,778	639,156	679,792	626,248
do. (ferruginous) .. .. .	<i>n.a.</i>	44,407	69,350	79,987	71,865	93,905
Metal .. .. .	1,892	1,577	1,638	1,452	2,711	2,380
Ferro-manganese .. .. .	<i>n.a.</i>	81,005	78,794	70,203	88,867	86,762
Spiegeleisen .. .. .	<i>n.a.</i>	15,223	14,930	13,697	16,002	9,859
Germany (East)—						
Ore (d) .. .. .	95,677	77,748	86,511	85,199	70,919	84,000
Hungary—						
Ferro-manganese .. .. .	6,649	7,621	10,485	11,208	11,651	11,774

(a) Including manganiferous iron ore.

(b) Years ended June 30 of that stated.

(c) Years ended March 31 following that stated.

 (d) *Mn. content.*

(e) Excess of re-exports.



## IMPORTS OF MANGANESE ORE, ETC. (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Italy—						
Ore (a) .. .. .	136,729	136,582	101,760	165,732	104,178	104,553
Metal .. .. .	156	172	113	144	549	500
Spiegeleisen .. .. .	6,778	12,335	13,281	19,064	6,524	5,223
Ferro-manganese .. .. .	27,526	30,620	42,949	53,853	53,118	77,451
Ferro-silico-manganese .. .. .	1,991	2,913	2,670	5,535	3,203	5,914
Netherlands—						
Ore (a) .. .. .	47,271	83,177	36,650	12,723	16,561	16,309
Ferro-manganese .. .. .	12,807	14,210	8,297	12,009	16,649	19,824
Ferro-silico-manganese .. .. .	452	896	405	282	372	252
Spiegeleisen .. .. .	6,199	935	483	1,075	708	458
Norway—						
Ore .. .. .	303,505	225,348	279,620	229,759	354,317	502,055
Poland—						
Ore .. .. .	328,208	261,736	294,277	299,494	374,200	343,000
Spain—						
Ore .. .. .	37,497	66,369	60,762	100,754	147,304	85,257
Ferro-manganese .. .. .	140	1,421	1,397	1,483	1,610	1,580
Sweden—						
Ore .. .. .	54,006	86,962	56,894	76,133	56,085	94,459
Metal .. .. .	799	605	918	1,115	1,120	1,052
Ferro-manganese .. .. .	6,138	10,806	9,982	12,170	12,347	16,052
Spiegeleisen .. .. .	118	139	100	200	167	492
Ferro-silico-manganese .. .. .	2,559	3,279	3,583	7,277	6,214	8,265
Yugoslavia—						
Ore .. .. .	46,540	37,539	44,225	35,465	40,038	43,417
Metal .. .. .	—	92	41	17	98	75
Ferro-manganese .. .. .	575	253	265	334	362	434
Algeria—						
Ore .. .. .	30	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
South Africa—						
Ore .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	617	<i>n.a.</i>
Mexico—						
Ferro-manganese .. .. .	158	106	97	530	424	<i>n.a.</i>
United States—						
Ore (over 35% Mn) .. .. .	2,033,009	1,917,136	1,764,840	2,133,500	2,700,211	3,442,497
<i>Mn content</i> .. .. .	966,395	920,591	842,553	1,003,669	1,277,171	1,630,097
Ore (10% to 35% Mn) .. .. .	2,400	5,500	6,536	7,373	9,862	33,061
<i>Mn content</i> .. .. .	817	1,763	2,101	<i>n.a.</i>	<i>n.a.</i>	10,087
Metal .. .. .	217	504	1,343	2,108	784	1,235
Ferro-manganese .. .. .	107,341	198,157	112,156	132,705	189,847	229,767
<i>Mn content</i> .. .. .	82,673	151,963	86,643	103,015	144,710	176,887
Silico-manganese .. .. .						
<i>Mn content</i> .. .. .	8,970	12,027	15,315	12,883	6,133	10,358
Argentina—						
Ferro-manganese .. .. .	292	415	452	178	292	2,294
Brazil—						
Ferro-manganese .. .. .	45	171	44	58	24	37
Chile—						
Ferro-manganese .. .. .	1	3	<i>n.a.</i>	—	<i>n.a.</i>	<i>n.a.</i>
Silico-manganese .. .. .	8	8	3	—	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Ore .. .. .	238,172	362,774	316,740	361,922	550,123	1,048,021
Manganiferous iron ore .. .. .	61,265	134,594	169,237	96,698	68,851	213,868
Turkey—						
Ferro-manganese .. .. .	306	3,030	3,502	766	4,977	6,977

(a) Including manganiferous iron ore.

**MERCURY**  
**PRODUCTION OF MERCURY**

Lb. avdp.

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Canada .. .. .	—	—	—	—	5,548	1,520
<b>OTHER COUNTRIES</b>						
Italy .. .. .	4,198,000	4,209,000	4,142,000	4,138,000	4,332,000	4,354,000
Roumania .. .. .	31,370	26,590	16,890	14,780	14,780	14,520
Spain .. .. .	4,056,099	3,891,355	4,012,668	4,328,536	5,952,000	6,289,800
U.S.S.R. (c) .. .. .	1,900,000	1,900,000	2,700,000	2,700,000	2,700,000	3,000,000
Yugoslavia .. .. .	1,070,000	1,210,000	1,240,000	1,200,000	1,320,000	1,250,000
Tunisia .. .. .	12,590	4,100	—	—	—	13,200
Mexico .. .. .	1,528,670	1,380,000	1,430,000	1,240,000	953,748	1,458,440
United States .. .. .	2,524,900	2,406,300	1,997,100	1,452,900	1,074,800	1,488,200
Bolivia (a) .. .. .	—	—	840	7,980	n.a.	4,489
Chile .. .. .	218,560	114,700	r 60,142	r 46,632	20,310	32,498
Colombia .. .. .	11,320	14,525	—	r 242	265	3,520
Peru .. .. .	230,600	228,100	264,700	r 234,966	248,900	n.a.
China (c) .. .. .	1,700,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000
Japan .. .. .	2,553,000	1,930,860	1,246,750	r1,413,730	788,695	n.a.
Philippine Republic .. .. .	231,100	240,700	210,300	201,500	189,700	181,200
Turkey .. .. .	101,800	r 141,700	r 202,200	r 226,600	196,200	187,000
<b>WORLD'S TOTAL (b) ..</b>	<b>20,400,000</b>	<b>20,000,000</b>	<b>19,000,000</b>	<b>19,000,000</b>	<b>20,000,000</b>	<b>21,000,000</b>

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

(a) Exports.

(b) Estimated.

(c) United States Bureau of Mines' estimate.

## EXPORTS OF MERCURY, ETC.

Lb. avdp.

Exporting Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
Canada—						
Mercury .. ..	1,918	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Malaya—						
Mercury .. ..	3,104	915	1,444	724	84	849
OTHER COUNTRIES						
Belgium-Luxemburg E.U.—						
Mercury .. ..	17,400	18,300	63,100	27,800	22,000	24,900
Mercury compounds ..	—	200	<i>n.a.</i>	<i>n.a.</i>	25,800	1,100
Denmark—						
Mercury oxide .. ..	1,543	882	882	2,646	6,614	2,000
France—						
Mercury .. ..	22,300	24,700	18,000	24,300	11,000	8,800
Mercury compounds ..	14,800	16,300	4,000	8,800	13,200	50,700
Germany (Federal)—						
Mercury .. ..	996,900	467,400	78,500	58,000	102,500	134,700
Italy—						
Mercury .. ..	4,057,532	2,483,700	2,715,200	5,755,400	6,347,800	3,883,000
Mercury compounds ..	68,083	<i>n.a.</i>	<i>n.a.</i>	220	—	—
Netherlands—						
Mercury .. ..	1,074,000	463,000	40,000	8,800	15,400	46,000
Mercury oxide .. ..	28,660	30,865	17,637	6,614	6,614	7,000
Spain—						
Mercury .. ..	3,998,964	3,654,583	3,487,713	3,733,598	5,376,789	4,923,360
Mercury compounds ..	224,228	259,455	285,106	394,003	111,567	133,721
Sweden—						
Mercury .. ..	<i>n.a.</i>	13,000	7,000	6,600	20,000	35,000
Switzerland—						
Mercury .. ..	1,453	1,572	6,609	1,435	32,809	2,410
U.S.S.R.—						
Mercury .. ..	1,186,000	1,378,000	1,323,000	1,102,000	220,000	53,000
Yugoslavia—						
Mercury .. ..	520,899	735,916	724,452	800,928	824,348	1,049,014
Mercury compounds ..	460,001	301,509	381,483	199,018	181,855	89,728
Mexico—						
Mercury .. ..	1,720,776	1,462,837	1,651,791	1,433,005	1,017,819	1,468,000
United States—						
Mercury .. ..	27,166	21,626	17,053	14,212	195,689	573,268
Bolivia—						
Mercury .. ..	—	—	840	7,980	<i>n.a.</i>	4,489
Chile—						
Mercury .. ..	207,316	183,171	80,826	29,507	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Mercury .. ..	—	9,193	—	—	—	—
Peru—						
Mercury .. ..	183,854	183,125	279,365	196,095	293,918	124,762
Japan—						
Mercury .. ..	2,873	1,554	1,786	3,492	58,956	199,304
Philippine Republic—						
Mercury .. ..	235,632	128,479	261,753	146,579	110,194	<i>n.a.</i>
Turkey—						
Mercury .. ..	143,300	162,000	166,000	208,500	245,700	176,300

## IMPORTS OF MERCURY, ETC.

Lb. avdp.

Importing Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—						
Mercury .. ..	1,592,576	1,418,269	1,136,261	1,575,810	1,689,576	1,327,079
Rhodesia (c)—						
Mercury .. ..	10,615	11,655	11,079	10,402	<i>n.a.</i>	<i>n.a.</i>
Canada—						
Mercury .. ..	243,091	312,913	245,059	447,592	293,900	1,071,900
Mercury compounds ..	(£2,542)	(£1,326)	(£1,284)	(£3,153)	<i>n.a.</i>	<i>n.a.</i>
Hong Kong—						
Mercury .. ..	<i>r</i> 29,400	<i>r</i> 33,566	<i>r</i> 38,244	<i>r</i> 40,160	31,428	19,704
India (b)—						
Mercury .. ..	284,354	273,373	477,625	398,545	407,540	484,635
Mercury compounds ..	17,603	17,633	47,329	26,579	38,287	77,997
Malaya—						
Mercury .. ..	2,873	3,112	3,778	4,615	9,866	69,843
Pakistan—						
Mercury .. ..	8,477	31,605	22,343	70,336	11,648	<i>n.a.</i>
Australia (a)—						
Mercury .. ..	97,726	156,164	128,728	139,623	114,316	203,742
Mercury compounds ..	707,004	549,459	26,178	34,645	18,327	6,551
New Zealand—						
Mercury .. ..	10,545	5,804	8,360	(a) 11,445	(a) 15,563	<i>n.a.</i>
Mercury compounds ..	3,500	6,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
OTHER COUNTRIES						
Austria—						
Mercury .. ..	102,100	103,600	61,300	52,690	29,321	51,600
Belgium-Luxemburg						
E.U.—						
Mercury .. ..	73,600	75,000	46,500	235,700	126,500	271,400
Mercury compounds ..	14,100	13,900	15,900	15,200	15,200	14,600
Denmark—						
Mercury .. ..	234,400	207,000	44,000	57,300	77,200	46,000
Mercury compounds ..	92,595	55,115	52,911	70,547	57,320	37,000
Finland—						
Mercury .. ..	92,594	55,000	62,000	57,320	33,069	117,000
France—						
Mercury .. ..	946,900	1,155,900	1,138,000	1,164,000	754,000	983,300
Mercury compounds ..	12,600	40,600	29,000	77,200	70,500	68,300
Germany (Federal)—						
Mercury .. ..	2,844,200	2,056,700	1,789,900	1,241,200	1,849,000	1,745,800
Greece—						
Mercury .. ..	1,843	2,584	6,598	7,919	1,828	3,488
Italy—						
Mercury .. ..	16,539	2,600	46,300	29,762	22,487	83,300
Mercury compounds ..	35,069	16,093	14,991	40,124	12,346	8,200
Netherlands—						
Mercury .. ..	1,162,000	578,000	110,000	139,000	152,000	439,000
Mercury compounds ..	126,000	121,000	126,000	132,000	143,000	119,000
Norway—						
Mercury .. ..	35,000	101,000	64,000	55,000	77,000	51,000
Poland—						
Mercury .. ..	420,400	403,200	<i>n.a.</i>	342,400	366,600	692,000
Portugal—						
Mercury .. ..	15,000	28,900	33,300	23,000	51,600	19,000
Mercury compounds ..	<i>n.a.</i>	4,600	4,400	4,900	5,700	3,500
Sweden—						
Mercury .. ..	159,000	196,000	282,000	309,000	139,000	161,000
Switzerland—						
Mercury .. ..	132,052	102,001	81,606	97,089	118,759	73,224
Yugoslavia—						
Mercury .. ..	<i>n.a.</i>	37	<i>n.a.</i>	227,764	235,288	—
Mercury compounds ..	<i>n.a.</i>	992	53	78,055	40,512	922

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

(c) Figures for years 1960 to 1963 relate to Rhodesia and Nyasaland.

## IMPORTS OF MERCURY, ETC. (cont.)

Lb. avdp.

Importing Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES (cont.)						
Algeria—						
Mercury .. ..	9,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Mercury compounds ..	200	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Angola—						
Mercury .. ..	194	298	212	18,365	137	7,948
Mercury compounds ..	42	637	119	538	483	14,482
Egypt—						
Mercury .. ..	9,916	322	38,638	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Morocco—						
Mercury .. ..	840	1,528	2,405	7,994	580	518
Mozambique—						
Mercury .. ..	88	165	123	35	104	104
South Africa—						
Mercury .. ..	122,125	43,946	72,191	61,175	48,354	<i>n.a.</i>
Sudan—						
Mercury .. ..	146	359	—	—	—	—
Tunisia—						
Mercury .. ..	400	747	1,499	48,998	661	216
Costa Rica—						
Mercury .. ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	3,968	<i>n.a.</i>	<i>n.a.</i>
United States—						
Mercury .. ..	1,481,076	935,813	2,395,216	3,277,576	3,127,629	1,231,976
Mercury compounds ..	114,305	90,700	46,368	14,899	8,625	12,452
Argentina—						
Mercury .. ..	36,654	13,532	24,332	38,116	216,113	28,894
Mercury compounds ..	2,930	1,453	3,840	4,810	6,920	11,184
Brazil—						
Mercury .. ..	84,146	192,089	101,071	255,134	228,231	131,519
Chile—						
Mercury .. ..	451	693	232	1,065	<i>n.a.</i>	<i>n.a.</i>
Mercury compounds ..	1,834	1,780	2,821	2,066	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Mercury .. ..	4,634	2,127	6,764	14,162	16,133	6,413
Mercury compounds ..	15,053	9,156	14,597	14,511	10,357	2,389
Peru—						
Mercury .. ..	562	1,512	<i>n.a.</i>	1,239	2,355	2,319
Mercury compounds ..	686	397	419	456	547	1,093
Uruguay—						
Mercury .. ..	551	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Venezuela—						
Mercury .. ..	14,383	8,682	10,225	31,337	3,296	8,854
Mercury compounds ..	9,815	24,736	6,740	15,849	11,942	19,571
Formosa—						
Mercury .. ..	46,116	11,579	19,941	20,979	97,228	151,109
Indonesia—						
Mercury .. ..	8,278	3,691	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Iran (a)—						
Mercury .. ..	2,004	1,938	45,365	1,316	3,386	3,314
Japan—						
Mercury .. ..	825	700,025	1,570,328	1,961,444	3,849,145	2,087,709
Korea (South)—						
Mercury .. ..	22,000	37,000	55,000	849,000	2,169,000	1,210,000
Philippine Republic—						
Mercury .. ..	888	9,405	276	606	1,462	<i>n.a.</i>
Thailand—						
Mercury .. ..	4,645	17,170	1,179	2,427	7,068	3,702
Mercury compounds ..	915	2,304	2,434	2,663	3,777	3,239
Turkey—						
Mercury compounds ..	2,866	3,697	2,942	3,399	5,172	6,312

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

**MICA**  
**PRODUCTION OF MICA**

Lb. avdp.

Producing Country	1960	1961	1962	1963	1964	1965	
<b>COMMONWEALTH COUNTRIES</b>							
Kenya—							
Block and sheet ..	1,244	222	2,293	1,760	—	—	
Rhodesia—							
Crude .. .. .	752,000	102,300	172,888	225,819	156,355	180,000	
Block and sheet ..	90,000	64,011	33,136	58,452	74,910	64,000	
Tanzania—							
Sheet .. .. .	180,000	190,000	210,000	235,000	211,500	} <i>d</i> 598,080	
Waste .. .. .	—	—	—	—	323,790		
Uganda .. .. .	—	850	180	—	—	—	
Zambia—							
Sheet .. .. .	530	—	—	—	3,305	8,731	
Canada ( <i>a</i> )—							
Rough mine-run or							
rifted .. .. .	118,407	73,541	72,187	12,021	—	} 886,550	
Trimmed .. .. .	28,862	56,585	33,437	4,235	20,454		
Splittings .. ..	—	22,556	—	—	—		
Sold for mechanical							
splitting .. .. .	27,900	24,577	26,400	—	68,100		
Ground .. .. .	791,994	1,434,097	609,968	813,935	615,968		
Scrap .. .. .	696,886	204,804	455,805	352,850	493,640		
Ungraded .. ..	38,556	—	6,237	—	—		
By varieties—							
<i>Phlogopite and</i>							
<i>biotite</i> .. ..	1,580,605	1,565,740	1,204,034	1,182,041	1,198,114	<i>n.a.</i>	
<i>Muscovite and schist</i>	122,000	250,420	—	1,000	48	<i>n.a.</i>	
India ( <i>c</i> )( <i>d</i> )—							
Block .. .. .	5,036,165	4,676,619	4,274,029	3,896,919	4,032,120	3,147,892	
Splittings .. .. .	18,043,635	18,479,395	18,562,593	17,408,950	18,433,579	19,604,512	
Ground and waste ..	39,484,982	39,293,188	52,112,644	43,961,185	46,079,728	70,276,740	
Other unmanufactured	39,787	35,382	404,958	216,734	216,498	173,629	
Pakistan ( <i>e</i> ) .. ..	—	—	—	2,000	9,000	15,000	
Australia ( <i>b</i> )—							
Crude .. .. .	649,600	185,920	—	—	—	—	
Block .. .. .	9,500	—	—	—	—	—	
Scrap .. .. .	—	—	—	<i>r</i> 16,352	32,032	—	
<b>OTHER COUNTRIES</b>							
Austria .. .. .	317,000	194,000	33,000	—	—	—	
France .. .. .	686,000	304,000	190,000	388,000	646,000	430,000	
Germany (Federal) ..	22,000	18,000	20,000	11,000	18,000	26,000	
Italy .. .. .	66,000	22,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	
Norway—							
Crude .. .. .	5,700,000	7,700,000	—	—	—	—	
Waste .. .. .	900,000	2,200,000	<i>n.a.</i>	—	—	—	
Spain .. .. .	400	—	—	—	—	—	
Sweden ( <i>a</i> )—							
Ground .. .. .	348,000	110,000	130,000	44,000	46,000	<i>n.a.</i>	
Yugoslavia .. .. .	4,000	4,000	4,000	77,000	26,000	( <i>f</i> ) 40,000	
Angola—							
Sheet .. .. .	26,910	3,571	—	—	—	—	
Waste and splittings ..	882,500	45,966	—	—	—	—	
Malagasy Republic—							
Phlogopite (block and							
splittings) .. .. .	2,227,000	2,224,000	2,961,000	2,120,000	1,500,000	1,390,000	
Mozambique .. .. .	2,080	1,150	1,214	—	—	22,000	
South Africa—							
Sheet .. .. .	1,724	1,341	2,608	} 4,680,000	{ 103,633	2,000	
Waste .. .. .	6,712,000	5,440,000	4,900,000				{ 6,764,000

(*a*) Sales.

(*b*) The following amounts of damourite were also produced (lb. avdp.): 1960—1,250,000; 1961—1,140,000; 1962—1,090,000; 1963—1,100,000; 1964—1,270,000; 1965—1,510,000.

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

(*d*) Exports.

(*e*) West Pakistan.

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

PRODUCTION OF MICA (cont.)

Lb. avdp.

Producing Country	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
South West Africa ..	—	—	150,000	1,200,000	832,000	260,000
United States (a)—						
Sheet (uncut) ..	587,401	526,007	363,016	102,961	242,662	717,000
Scrap (b) ..	195,820,000	198,090,000	215,404,000	218,646,000	229,458,000	240,509,000
Argentina—						
Sheet ..	r 189,260	r 120,510	110,000	r 200,000	241,191	205,510
Waste ..	—	—	—	—	456,760	259,420
Brazil ..	4,440,000	9,101,000	3,885,000	3,289,000	3,241,000	3,089,000
Uruguay ..	n.a.	n.a.	n.a.	95,000	n.a.	n.a.
<b>TOTAL*</b> ..	<b>r284,900,000</b>	<b>291,000,000</b>	<b>307,000,000</b>	<b>298,000,000</b>	<b>314,000,000</b>	<b>347,000,000</b>

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

(a) Sold or used by producers.

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

EXPORTS OF MICA

Lb. avdp.

Exporting Country and Description	1960	1961	1962	1963	1964	1965	
<b>COMMONWEALTH COUNTRIES</b>							
United Kingdom—							
Splittings .. .. .	} 4,435,000	5,652,000	6,279,000	7,728,000	9,538,000	5,593,000	
Ground and waste .. .. .							
Kenya—							
Unmanufactured (a) .. .. .	6,000	—	500	1,800	—	—	
Rhodesia (e)—							
Unmanufactured (a) .. .. .	313,417	122,378	33,327	r 99,877	777,053	n.a.	
Tanzania—							
Unmanufactured (a) .. .. .	180,400	197,100	218,600	241,100	535,800	598,080	
Zambia—							
Block or sheet .. .. .	n.a.	n.a.	n.a.	n.a.	5,760	887	
Waste .. .. .	n.a.	n.a.	n.a.	n.a.	960	—	
Canada—							
Rough .. .. .	30,200	181,100	97,900	—	—	—	
Trimmed block or sheet .. .. .	67,000	41,300	102,300	—	—	—	
Ground .. .. .	24,000	—	—	—	—	—	
Waste .. .. .	367,600	(d)	(d)	—	—	—	
Hong Kong—							
Manufactured .. .. .	r —	r —	r —	r 560	560	1,120	
India (c)—							
Block .. .. .	5,036,165	4,676,619	4,274,029	3,896,919	4,032,120	3,147,892	
Splittings .. .. .	18,043,635	18,479,395	18,562,593	17,408,950	18,433,579	19,604,512	
Ground and waste .. .. .	39,484,982	39,293,188	52,112,644	43,961,185	46,079,728	70,276,740	
Other unmanufactured .. .. .	39,787	35,382	404,958	216,734	216,498	173,629	
Manufactured .. .. .	377,577	449,194	175,113	459,205	532,485	242,507	
Australia (b)—							
Unmanufactured .. .. .	86,332	98,096	57,344	60,397	68,418	73,564	
Manufactured .. .. .	(£13,738)	(£23,599)	(£12,858)	(£16,367)	(£23,813)	(£20,153)	
<b>OTHER COUNTRIES</b>							
Austria—							
Unmanufactured .. .. .	(a) 3,300	(a) 10,600	(a) 11,000	66,800	11,000	21,800	
Manufactured .. .. .	31,300	28,200	40,800	17,000	24,000	20,300	
Belgium-Luxemburg							
E.U.—							
Unmanufactured (a) .. .. .	49,200	55,600	45,000	19,600	50,900	30,400	
Manufactured .. .. .	114,200	131,200	257,900	285,500	435,200	381,400	
Denmark—							
Ground .. .. .	200	1,100	2,000	2,200	2,200	7,000	
Manufactured .. .. .	3,600	900	2,000	—	1,100	—	
Finland—							
Unmanufactured (a) .. .. .	n.a.	121,000	165,000	132,000	110,000	110,000	
France—							
Unmanufactured (a) .. .. .	312,000	138,200	110,000	53,000	390,200	136,700	
Ground .. .. .	303,100	224,000	254,000	n.a.	388,000	1,135,400	
Manufactured .. .. .	480,800	504,400	518,000	615,100	716,500	623,900	
Germany (Federal)—							
Unmanufactured (a) .. .. .	675,900	713,000	945,100	1,072,300	1,218,700	1,065,900	
Manufactured .. .. .	213,400	241,000	220,700	187,600	277,300	265,900	
Italy—							
Ground .. .. .	54,384	} 134,300	82,200	106,000	131,200	{ 170,400	
Waste .. .. .	44,092		82,200	106,000	131,200		113,300
Manufactured .. .. .	33,283		32,400	48,900	52,700		87,300
Netherlands—							
Unmanufactured .. .. .	229,000	117,000	247,000	346,000	392,000	229,000	
Manufactured .. .. .	6,600	13,200	15,400	24,300	—	—	
Norway—							
Unmanufactured .. .. .	5,553,000	6,437,000	6,446,000	7,917,000	8,768,000	9,074,000	
Waste .. .. .	134,500	26,000	214,000	—	71,000	77,000	

(a) Including waste.

(b) Years ended June 30 of that stated.

(c) Years ended March 31 following that stated.

(d) Included with "Rough".

(e) Figures for years 1960 to 1963 relate to Rhodesia and Nyasaland.



EXPORTS OF MICA (cont.)

Lb. avdp.

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Sweden—						
Unmanufactured ..	2,000	4,000	18,000	13,000	20,000	57,000
Switzerland—						
Unmanufactured (a) ..	13,913	54,057	44,509	45,102	25,904	10,293
Manufactured ..	357,603	458,815	528,302	367,881	434,456	335,872
U.S.S.R.—						
Unmanufactured ..	22,000	4,000	—	15,000	7,000	—
Yugoslavia—						
Waste .. .. .	35,693	70,394	—	—	—	—
Angola—						
Unmanufactured ..	17,472	11,720	<i>n.a.</i>	} 5,732	—	—
Waste .. .. .	1,316,779	3,660	<i>n.a.</i>			
Malagasy Republic—						
Unmanufactured ..	2,192,431	2,715,173	2,356,741	1,856,881	2,125,805	2,099,050
Mozambique—						
Unmanufactured ..	3,014	2,923	1,214	—	—	22,000
South Africa—						
Unmanufactured (a) ..	3,166,000	6,756,000	5,312,000	4,704,000	5,402,000	3,996,000
Mexico—						
Unmanufactured ..	26,636	33,669	16,405	—	—	<i>n.a.</i>
United States—						
Unmanufactured ..	701,926	334,211	430,856	594,427	542,516	} 7,802,539
Ground .. .. .	7,077,245	7,074,850	7,427,420	7,244,428	8,263,497	
Manufactured ..	243,354	190,320	197,441	204,246	281,131	523,338
Argentina—						
Unmanufactured ..	396,722	727,459	650,088	1,067,716	2,011,037	1,087,573
Brazil—						
Unmanufactured ..	1,595,944	1,969,263	1,944,902	2,759,680	3,837,220	4,989,404
Manufactured ..	59,869	51,099	60,197	33,600	22,540	12,763
Japan—						
Unmanufactured (a) ..	57,000	692,000	40,000	33,000	126,000	88,200
Manufactured ..	54,132	56,780	88,851	33,788	32,952	91,717

(a) Including waste.

IMPORTS OF MICA

Lb. avdp.

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom—						
Block .. .. .	858,000	856,000	473,000	677,000	867,000	1,187,000
Splittings .. .. .	2,910,000	2,999,000	1,693,000	2,556,000	2,589,000	3,636,000
Ground and waste .. .. .	14,531,000	11,872,000	10,385,000	21,726,000	10,940,000	25,809,000
Manufactured .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	81,000	164,000	212,912
Kenya—						
Unmanufactured (a) .. .. .	20,100	35,300	15,500	29,400	20,200	74,300
Mauritius—						
Unmanufactured .. .. .	31	4	351	—	—	—
Manufactured .. .. .	8,962	981	7	271	—	(c) 143
Tanzania—						
Unmanufactured (a) .. .. .	75,400	13,200	24,500	16,700	8,800	—
Zambia—						
Block or sheet .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	42,540	6,020
Canada—						
Unmanufactured .. .. .	1,838,800	1,475,800	2,296,300	<i>d</i> 4,451,387	<i>d</i> 5,884,000	<i>d</i> 228,000
Manufactured .. .. .	(£116,582)	(£126,259)	(£146,920)	<i>d</i> (£167,443)	<i>d</i> (£246,135)	(£159,769)
Jamaica—						
Unmanufactured .. .. .	78,801	118,046	187,889	142,779	203,120	230,320
Manufactured .. .. .	192	473	147	842	270	152
Trinidad and Tobago—						
Unmanufactured (a) .. .. .	66,000	—	2,500	16,500	21,000	<i>n.a.</i>
Manufactured .. .. .	—	125	165	245	85	<i>n.a.</i>
Hong Kong—						
Unmanufactured (a) .. .. .	<i>r</i> 9,500	<i>r</i> 16,400	<i>r</i> 9,000	<i>r</i> 6,700	4,400	3,800
Manufactured .. .. .	<i>r</i> (c) 2,700	<i>r</i> 600	<i>r</i> 12,300	<i>r</i> 11,000	22,000	17,800
India—						
Unmanufactured .. .. .	30,483	48,828	8,800	—	—	—
Manufactured .. .. .	8,951	423	2,200	4,400	—	2,240
Malaya—						
Manufactured .. .. .	3,144	2,366	7,558	21,625	2,968	11,293
Sarawak—						
Unmanufactured (a) .. .. .	(c) 4,000	4,000	—	—	22	—
Australia (b)—						
Block or sheet .. .. .	26,772	43,859	15,150	40,393	74,571	97,900
Splittings .. .. .	228,914	237,818	144,714	178,034	246,699	316,491
Ground .. .. .	335,482	394,876	310,592	590,616	567,760	768,639
Waste .. .. .	1,818,880	531,280	663,261	575,472	718,587	1,528,894
Manufactured .. .. .	(£4,267)	(£15,054)	(£8,583)	(£5,828)	(£6,094)	(£11,990)
New Zealand—						
Unmanufactured .. .. .	(£NZ26,766)	(£NZ23,910)	} £NZ12,407	<i>b</i> £NZ9,542	<i>b</i> £NZ12,414	<i>n.a.</i>
Waste .. .. .	(£NZ 1,077)	(£NZ 4,094)				
<b>OTHER COUNTRIES</b>						
Austria—						
Unmanufactured (a) .. .. .	424,200	436,500	515,700	817,700	744,900	571,200
Manufactured .. .. .	49,600	74,500	56,000	45,000	63,000	38,800
Belgium-Luxemburg						
E.U.—						
Unmanufactured (a) .. .. .	1,694,700	1,568,400	1,965,400	1,675,300	2,330,300	3,021,900
Manufactured .. .. .	83,800	70,800	89,100	72,500	109,100	89,100
Denmark—						
Unmanufactured .. .. .	48,700	12,300	13,000	26,500	8,800	97,000
Ground .. .. .	234,400	338,000	245,000	482,800	412,300	538,000
Manufactured .. .. .	150,600	123,500	152,000	108,000	128,000	161,000
Finland—						
Unmanufactured (a) .. .. .	<i>n.a.</i>	574,298	686,709	1,091,337	801,400	1,052,910
Manufactured .. .. .	78,600	57,000	62,000	59,500	53,000	68,000
France—						
Unmanufactured (a) .. .. .	4,437,900	5,193,200	4,409,000	4,334,300	8,474,600	7,209,100
Ground .. .. .	2,166,500	2,587,600	2,919,000	3,661,900	3,785,300	3,388,500
Manufactured .. .. .	28,200	58,000	88,000	68,300	94,800	502,700

(a) Including waste.

(b) Years ended June 30 of that stated.

(c) Excess of re-exports.

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

## IMPORTS OF MICA (cont.)

Lb. advp.

Importing Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES						
(cont.)						
Germany (Federal)—						
Unmanufactured (a) ..	11,559,100	10,260,300	9,882,700	9,886,800	14,050,500	15,114,500
Manufactured ..	286,800	229,700	181,200	237,400	318,800	450,000
Greece—						
Unmanufactured ..	36,471	24,341	63,160	50,797	62,576	49,547
Italy—						
Unmanufactured ..	3,284,411	2,656,800	3,670,000	1,475,300	1,142,200	751,100
Ground ..	1,556,761	3,355,900	4,481,000	2,568,400	2,933,700	1,827,900
Waste ..	6,245,234					
Manufactured ..	630,725	788,800	533,700	283,000	219,600	163,600
Netherlands—						
Unmanufactured (a) ..	1,052,000	1,257,000	1,565,000	1,389,000	1,748,000	2,110,000
Manufactured ..	128,000	137,000	123,000	126,000	4,000	132,000
Norway—						
Unmanufactured ..	42,000	791,000	55,000	71,000	754,000	2,769,000
Waste ..	7,613,000	5,767,000	9,231,000	7,520,000	7,416,000	11,510,000
Manufactured ..	64,000	71,000	368,000	88,000	77,000	86,000
Poland—						
Unmanufactured ..	916,900	1,322,300	n.a.	1,351,200	2,100,800	2,429,000
Portugal—						
Unmanufactured ..	203,000	226,600	284,400	205,500	289,500	323,400
Manufactured ..	4,000	11,900	15,000	15,200	16,800	21,800
Spain ..	287,816	409,284	838,257	1,467,831	1,037,292	2,031,910
Sweden—						
Unmanufactured (a) ..	2,540,000	2,648,000	2,496,000	2,544,000	2,324,000	2,709,000
Manufactured ..	51,000	71,000	93,000	90,000	108,000	88,000
Switzerland—						
Unmanufactured (a) ..	1,578,267	1,773,683	2,042,483	2,027,829	1,519,957	1,884,698
Manufactured ..	143,140	190,687	228,820	130,218	265,756	356,807
U.S.S.R.—						
Unmanufactured ..	2,441,000	1,404,000	730,000	441,000	529,000	829,000
Yugoslavia—						
Unmanufactured ..	15,677	—	13,227	50,521	—	1,323
Manufactured ..	2,423	20,682	21,314	73,921	101,911	84,210
Algeria—						
Unmanufactured (a) ..	1,100	n.a.	n.a.	n.a.	n.a.	n.a.
Ground ..	154,100	n.a.	n.a.	n.a.	n.a.	n.a.
Manufactured ..	7,500	n.a.	n.a.	n.a.	n.a.	n.a.
Egypt—						
Unmanufactured ..	2,204	55,676	15,926	n.a.	n.a.	n.a.
Manufactured ..	13,946	10,143	3,865	n.a.	n.a.	n.a.
Malagasy Republic—						
Unmanufactured ..	5,481	25,353	17,637	1,653	4,411	n.a.
Morocco—						
Unmanufactured (a) ..	2,205	—	—	—	—	—
Ground ..	500	3,000	2,425	7,055	3,300	3,300
Manufactured ..	2,427	2,659	2,383	2,077	2,354	—
South Africa—						
Unmanufactured ..	n.a.	n.a.	n.a.	n.a.	1,003,600	n.a.
Manufactured ..	n.a.	n.a.	n.a.	n.a.	377,532	n.a.
Mica and micanite sheets	46,623	60,910	64,146	89,791	(b)	n.a.
Sudan—						
Unmanufactured ..	n.a.	n.a.	n.a.	16,199	11,000	2,000
Manufactured ..	n.a.	n.a.	n.a.	35,713	9,004	22,159
Tunisia—						
Unmanufactured ..	110	15	11,023	14,980	37,593	302,069
Ground ..						
Manufactured ..	1,300	6,600	1,700	1,900	1,000	1,528
Guatemala—						
Unmanufactured ..	26,762	6,931	7,857	14,145	17,379	19,427
Manufactured ..	897	22	18	42	227	260

(a) Including waste.

(b) Included with "manufactured".

## IMPORTS OF MICA (cont.)

Lb. avdp.

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Mexico—						
Unmanufactured ..	21,231	91,558	201,474	177,126	124,035	<i>n.a.</i>
Waste .. .. .	248,318	309,077	417,604	263,946	77,329	<i>n.a.</i>
United States—						
Unmanufactured ..	1,088,021	852,648	1,110,739	1,133,521	942,547	653,734
Ground .. .. .	46,000	23,000	69,000	31,000	23,000	87,000
Waste .. .. .	12,480,715	6,047,586	8,916,421	16,075,434	5,465,748	3,043,355
Films and splittings ..	8,256,530	7,457,035	10,460,437	8,442,887	9,830,594	11,117,748
Other manufactures ..	231,993	164,179	276,196	231,283	244,495	384,026
Argentina .. .. .	6,766	11,054	4,031	28,590	42,443	43,297
Bolivia .. .. .	21,513	37	265	31,200	18	—
Brazil—						
Unmanufactured ..	119	60	2,244	661	500	701
Manufactured .. ..	11,711	7,247	11,188	58,784	14,654	48,264
Chile—						
Unmanufactured ..	11,813	51,399	64,146	39,930	<i>n.a.</i>	<i>n.a.</i>
Manufactured .. ..	13,327	14,808	6,942	64,190	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Unmanufactured ..	300,910	391,331	425,915	300,587	259,841	186,876
Manufactured .. ..	14,059	16,435	12,807	22,306	21,272	24,690
Peru—						
Ground and waste ..	140,000	210,283	205,594	225,046	285,307	302,620
Venezuela—						
Unmanufactured ..	578,879	905,387	733,473	312,657	657,489	846,740
Manufactured .. ..	4,301	40,812	21,308	4,376	7,553	5,280
Indonesia—						
Manufactured .. ..	8,490	21,213	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Iran (a)—						
Unmanufactured ..	<i>n.a.</i>	679,158	251,911	835,420	453,650	1,072,300
Manufactured .. ..	<i>n.a.</i>	4,879	11,764	11,508	64,137	202,984
Japan—						
Unmanufactured ..	1,812,000	4,057,000	3,851,000	3,126,000	9,301,000	11,105,000
Ground .. .. .	128,000	207,000				
Waste .. .. .	5,130,000	5,456,000	3,538,000	3,258,000	3,018,000	3,472,000
Manufactured .. ..	79	1,208	2,185	1,468	840	637
Lebanon—						
Unmanufactured ..	13,228	6,523	8,234	21,566	54,611	<i>n.a.</i>
Philippine Republic—						
Unmanufactured ..	42,099	149,264	84,957	109,989	82,642	<i>n.a.</i>
Thailand—						
Unmanufactured ..	73	5,364	1,107	4,273	10,911	—
Manufactured .. ..	2,544	1,325	3,565	7,824	4,969	10,170
Turkey—						
Unmanufactured ..	75	7	25,026	39,979	116,845	72,753
Manufactured .. ..	4,343	2,297	5,150	16,506	356,024	18,435

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

**MOLYBDENUM**  
**PRODUCTION OF MOLYBDENUM ORE**  
*(MoS<sub>2</sub> content or equivalent)*

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Nigeria .. .. .	—	—	—	2	—	3
Canada (a) .. .. .	572	574	609	621	912	2,956
Australia .. .. .	—	1	1	r 10	—	—
<b>OTHER COUNTRIES</b>						
Norway .. .. .	403	396	427	345	375	393
U.S.S.R. (b) .. .. .	8,200	8,900	9,300	9,300	9,800	10,000
Mexico .. .. .	99	3	96	68	88	80
United States .. .. .	50,809	49,563	38,156	48,407	48,849	57,611
Chile .. .. .	3,041	r 3,006	r 4,005	r 4,770	6,323	7,702
Peru .. .. .	—	—	r —	r 530	n.a.	n.a.
China (b) .. .. .	2,500	2,500	2,500	2,500	2,500	2,500
Japan .. .. .	625	600	613	544	460	n.a.
Korea (South) .. .. .	73	52	122	115	200	n.a.
Philippine Republic .. .. .	46	185	186	176	173	130
<b>TOTAL*</b> .. .. .	<b>66,400</b>	<b>65,800</b>	<b>r 56,000</b>	<b>r 67,400</b>	<b>70,000</b>	<b>83,000</b>

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

(a) Shipments.

(b) United States Bureau of Mines' estimate.

## EXPORTS OF MOLYBDENUM ORE, ETC.

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ferro-molybdenum ..	245	246	229	160	130	300
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Ferro-molybdenum ..	61	246	143	2	—	—
France—						
Ferro-molybdenum ..	555	375	412	569	618	467
Oxide and molybdates..	7	2	10	57	38	61
Germany (Federal)—						
Ore .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	114	83
Metal .. .. .	34	27	22	35	80	83
Italy—						
Ferro-molybdenum ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	12	1
Netherlands—						
Metal .. .. .	<i>n.a.</i>	58	70	55	65	123
Norway—						
Ore .. .. .	467	394	480	417	400	417
Sweden—						
Ferro-molybdenum ..	292	261	326	271	308	420
U.S.S.R.—						
Ferro-molybdenum ..	2,700	4,400	2,500	3,000	5,300	4,600
Mexico—						
Ore and concentrates ( <i>MoS<sub>2</sub> content</i> ) ..	97	3	96	68	88	<i>n.a.</i>
United States—						
Ore and concentrates ( <i>MoS<sub>2</sub> content</i> ) ..	22,520	26,553	11,582	19,765	18,570	16,388
Metal, alloys and scrap..	132	197	34	62	627	49
Ferro-molybdenum ..	190	160	85	107	779	1,001
Wire, powder and semi- fabricated .. .. .	11	14	21	25	128	309
Chile—						
Ore .. .. .	4,002	3,918	5,049	5,844	6,936	5,574
Peru—						
Ore ( <i>MoS<sub>2</sub> content</i> ) ..	—	—	8	264	773	579
Korea (South)—						
Ore .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	302	358	524
Philippine Republic—						
Concentrates .. .. .	67	203	235	169	271	<i>n.a.</i>

## IMPORTS OF MOLYBDENUM ORE, ETC.

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore .. .. .	7,783	7,961	5,510	5,780	6,398	7,889
Metal .. .. .	23	22	30	42	81	140
Canada—						
Oxide .. .. .	293	119	147	116	219	339
Australia (a)—						
Oxide .. .. .	4	26	66	61	90	146
Ferro-molybdenum ..	106	525	74	77	260	182
OTHER COUNTRIES						
Austria—						
Oxide .. .. .	184	208	237	291	296	393
Ferro-molybdenum ..	119	51	121	65	37	10
Belgium-Luxemburg						
E.U.—						
Oxide .. .. .	21	—	14	9	86	15
Ferro-molybdenum ..	482	532	498	297	379	152
Denmark—						
Ferro-molybdenum ..	31	38	42	15	29	34
Finland—						
Ferro-molybdenum ..	173	185	133	59	67	76
France—						
Ore .. .. .	5,066	5,641	3,190	4,547	4,785	4,105
Metal and alloys ..	24	33	26	34	73	86
Oxide and molybdates..	15	32	42	39	7	18
Germany (Federal)—						
Ore .. .. .	8,626	9,047	4,790	9,227	7,847	8,886
Metal .. .. .	87	120	88	64	438	311
Hungary—						
Ferro-molybdenum ..	45	193	195	158	116	—
Italy—						
Ore .. .. .	1,479	1,500	1,150	1,115	1,221	1,501
Metal .. .. .	48	15	52	20	39	121
Ferro-molybdenum ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	453	616
Netherlands—						
Metal .. .. .	17	21	14	12	12	34
Ferro-molybdenum ..	46	51	99	56	50	86
Oxide and molybdates..	10	269	206	183	218	207
Norway—						
Ferro-molybdenum ..	59	61	50	43	<i>n.a.</i>	<i>n.a.</i>
Sweden—						
Ore .. .. .	2,590	2,751	1,891	2,295	3,022	3,400
Metal .. .. .	20	12	24	22	69	44
Ferro-molybdenum ..	967	1,141	351	596	405	592
United States—						
Metal .. .. .	69	1	20	154	110	<i>n.a.</i>
Semi-fabricated ..	9	8	14	8	5	15
Japan—						
Ore and concentrates ..	3,824	5,149	1,285	1,619	4,998	4,962

(a) Years ended June 30 of that stated.

**NICKEL**  
**PRODUCTION OF NICKEL ORE**  
*(Metal content)*

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Rhodesia .. ..	25	65	105	159	231	<i>n.a.</i>
Canada (b) .. ..	191,524	208,028	207,359	193,777	204,015	233,174
<b>TOTAL .. ..</b>	<b>191,549</b>	<b>208,093</b>	<b>207,464</b>	<b>193,936</b>	<b>204,246</b>	<b>234,000</b>
<b>OTHER COUNTRIES</b>						
Finland (c) .. ..	2,228	2,157	2,584	3,040	3,260	3,060
Poland .. ..	1,234	1,297	1,302	1,088	(a) 1,300	(a) 1,300
U.S.S.R. (d) .. ..	57,000	75,000	80,000	80,000	80,000	80,000
Morocco .. ..	250	254	282	270	300	(a) 300
Cuba (a) (e) .. ..	12,600	14,570	16,340	16,400	16,700	<i>n.a.</i>
United States (f) .. ..	11,187	9,979	10,015	10,207	10,879	12,062
Brazil (i) .. ..	95	r 81	r 232	r 988	(a) 1,000	(a) 1,000
Venezuela .. ..	12	—	—	—	—	—
Burma (g) .. ..	86	137	106	90	70	<i>n.a.</i>
Indonesia .. ..	400	620	440	1,600	1,700	(a) 3,500
Korea (South) .. ..	—	r 28	r 26	r 25	18	1
Philippine Republic .. ..	—	9	11	—	—	<i>n.a.</i>
New Caledonia (h) .. ..	52,000	53,000	33,000	44,000	61,000	60,000
<b>TOTAL* .. ..</b>	<b>140,000</b>	<b>160,000</b>	<b>150,000</b>	<b>160,000</b>	<b>180,000</b>	<b>180,000</b>
<b>WORLD'S TOTAL* .. ..</b>	<b>330,000</b>	<b>370,000</b>	<b>360,000</b>	<b>350,000</b>	<b>380,000</b>	<b>410,000</b>

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

(a) United States Bureau of Mines' estimate.

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

(c) Nickel content of concentrates and nickel sulphate.

(d) Estimated. Source: Metallgesellschaft.

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

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

Secondary metal was recovered in the United States as follows :

	Long tons				Long tons			
1960 .. ..	..	..	8,421	1963 .. ..	..	..	16,961	
1961 .. ..	..	..	9,543	1964 .. ..	..	..	20,637	
1962 .. ..	..	..	9,918	1965 .. ..	..	..	17,328	

(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			
1960 .. ..	..	..	21,524	1963 .. ..	..	..	22,095	
1961 .. ..	..	..	25,000	1964 .. ..	..	..	26,167	
1962 .. ..	..	..	15,062	1965 .. ..	..	..	30,873	

(i) Content of ferro-nickel.



## EXPORTS OF NICKEL\*

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom—						
Unwrought (a) .. .. .	21,714	21,918	20,129	23,604	26,882	27,783
Semi-manufactures .. .. .	2,113	2,396	2,273	2,910	3,072	2,995
do. alloys .. .. .	2,917	3,390	3,292	3,528	4,441	3,726
Scrap (a) .. .. .	1,309	2,088	2,141	2,738	3,237	3,398
Nickel oxide .. .. .	595	519	476	481	149	38
Rhodesia (d)—						
Ore .. .. .	158	224	262	570	698	n.a.
Canada—						
Matte or speiss (Ni content) .. .. .	65,991	82,980	69,116	74,457	66,755	73,506
Unwrought .. .. .	96,741	119,200	108,672	97,461	114,580	120,712
Scrap (a) .. .. .	n.a.	552	865	854	965	934
Nickel oxide (Ni content) .. .. .	11,837	16,090	9,929	13,579	31,965	36,568
Hong Kong—						
Scrap .. .. .	r 1	r 95	r 18	62	56	20
Australia (c) .. .. .						
Unwrought and semi-manufactures (a) .. .. .	131	133	103	115	192	252
<b>OTHER COUNTRIES</b>						
Belgium-Luxemburg						
E.U.—						
Unwrought .. .. .	545	—	4	—	2	9
do. alloys .. .. .	115	29	6	5	28	—
Scrap .. .. .	73	920	367	606	494	454
Semi-manufactures (a) (b) .. .. .	468	94	141	126	116	163
Denmark—						
Unwrought .. .. .	2	—	—	—	—	—
Scrap (a) .. .. .	65	43	199	221	201	173
Finland—						
Unwrought .. .. .	n.a.	1,519	2,190	2,329	3,122	2,508
France—						
Matte and speiss .. .. .	—	50	429	1,201	656	55
Unwrought .. .. .	3,667	3,255	5,231	5,494	3,041	4,704
do. alloys .. .. .	15	26	20	—	14	27
Scrap (a) .. .. .	969	1,639	1,077	3,099	828	1,357
Semi-manufactures (a) .. .. .	949	730	961	1,066	1,114	1,729
Germany (Federal)—						
Unwrought and scrap (a) .. .. .	1,883	644	913	824	1,085	1,194
Semi-manufactures (a) .. .. .	4,056	4,586	5,031	4,312	4,307	5,047
Italy—						
Semi-manufactures (a) .. .. .	562	722	716	972	780	1,071
Netherlands—						
Scrap (a) .. .. .	711	797	976	1,524	1,534	1,167
Semi-manufactures (a) .. .. .	110	124	181	90	106	123
Norway—						
Unwrought .. .. .	27,759	29,207	27,243	23,559	33,330	30,745
Scrap .. .. .	230	337	244	212	150	64
Semi-manufactures (a) .. .. .	643	648	602	r 507	498	266

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

(a) Including alloys.

(b) Excluding anodes.

(c) Years ended June 30 of that stated.

(d) Figures for years 1960 to 1963 relate to Rhodesia and Nyasaland.

## EXPORTS OF NICKEL (cont.)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Sweden—						
Unwrought .. .. .	—	6	122	9	—	70
Scrap .. .. .	55	48	75	55	74	343
Semi-manufactures (a)	281	585	588	703	763	812
Switzerland—						
Unwrought and scrap (a)	406	467	517	474	589	802
Semi-manufactures (a)	992	868	675	775	773	1,061
South Africa—						
Unwrought .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	740	<i>n.a.</i>
United States—						
Ore, concentrates and matte .. .. .	1	1,576	41	11	7	<i>n.a.</i>
Unwrought and semi-manufactures (a) .. .. .	10,246	8,258	8,996	10,534	12,790	10,414
Scrap (a) .. .. .	38,065	39,714	15,643	43,854	48,364	6,003
Bolivia—						
Ore ( <i>Ni</i> content) .. .. .	—	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Burma—						
Unwrought .. .. .	253	434	—	706	615	—
Indonesia—						
Ore .. .. .	13,541	14,763	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Ferro-nickel .. .. .	1	289	—	11	—	3
Unwrought .. .. .	—	1	—	—	} 7	1
do. alloys .. .. .	—	—	—	—		
Semi-manufactures (a)	3	60	176	133	240	388
Korea (South)—						
Ore .. .. .	—	738	902	537	—	—
Philippine Republic—						
Ore .. .. .	—	43	54	34	—	<i>n.a.</i>
New Caledonia—						
Ore .. .. .	941,047	997,330	607,603	606,969	1,066,559	820,769
Matte .. .. .	14,298	15,276	11,377	17,581	16,901	18,050
Ferro-nickel .. .. .	42,960	45,791	20,943	29,003	46,591	54,542

(a) Including alloys.

## IMPORTS OF NICKEL\*

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom—						
Ore, concentrates and matte .. .. .	55,087	63,057	53,712	61,621	56,183	63,543
Unwrought .. .. .	23,319	19,769	7,594	7,485	18,612	26,330
do. alloys .. .. .	36	11	10	934	121	125
Semi-manufactures (a) .. .. .	6,111	4,799	4,162	3,078	4,818	2,801
Scrap (a) .. .. .	2,533	2,888	2,349	2,508	3,722	3,153
Nickel oxide .. .. .	1,667	1,273	1,064	1,027	1,674	970
Rhodesia (f)—						
Semi-manufactures (a) .. .. .	57	18	12	10	17	48
Canada—						
Unwrought (a) .. .. .	23	12	132	8,212	} (g) 11,257½	(g) 13,437
Semi-manufactures (a) .. .. .	1,550	3,831	6,559	1,586		
Cyprus—						
Semi-manufactures (a) .. .. .	8	4	5	1	2	—
Hong Kong—						
Semi-manufactures (a) .. .. .	r 56	r 85	r 104	r 103	143	125
India (c)—						
Unwrought .. .. .	1,040	1,316	1,304	1,663	1,249	634
do. alloys .. .. .	61	47	45	39	60	480
Scrap .. .. .	181	120	431	190	752	799
Semi-manufactures (a) .. .. .	268	385	202	266	396	676
Australia (b)—						
Unwrought .. .. .	1,212	825	355	624	947	1,252
do. alloys (d) .. .. .	n.a.	143	96	162	213	318
Semi-manufactures (a) .. .. .	(e) 364	963	845	1,054	996	1,104
New Zealand—						
Unwrought (a) .. .. .	26	26	34	(b) 28	(b) 31	n.a.
Semi-manufactures (a) .. .. .	42	71	140	(b) 180	(b) 164	n.a.
Irish Republic—						
Unwrought (a) .. .. .	} 95	147	155	10	23	32
Semi-manufactures (a) .. .. .				{ 141	116	61
<b>OTHER COUNTRIES</b>						
Austria—						
Matte and speiss .. .. .	263	244	120	293	385	363
Unwrought .. .. .	2,767	2,615	2,049	3,020	2,788	2,488
Scrap .. .. .	—	—	1	2	9	23
Semi-manufactures (a) .. .. .	323	358	365	341	423	431
Belgium-Luxemburg						
E.U.—						
Unwrought .. .. .	1,839	1,082	1,098	984	1,143	1,030
do. alloys .. .. .	234	201	232	137	176	138
Scrap .. .. .	91	179	287	403	349	523
Semi-manufactures (a) .. .. .	306	467	536	611	689	678
Denmark—						
Unwrought .. .. .	105	137	93	69	65	100
do. alloys .. .. .	14	28	38	8	18	17
Semi-manufactures (a) .. .. .	372	523	613	568	574	684

\*See footnote on p.227 concerning the descriptions "unwrought" nickel and "semi-manufactures" used in these tables.

(a) Including alloys.

(b) Years ended June 30 of that stated.

(c) Years ended March 31 following that stated.

(d) Including scrap.

(e) Excluding anodes.

(f) Figures for years 1960 to 1963 relate to Rhodesia and Nyasaland.

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

## IMPORTS OF NICKEL (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES						
<i>(cont.)</i>						
Finland—						
Unwrought (a) ..	468	473	387	145	227	263
France—						
Matte and speiss ..	13,312	14,511	13,554	12,501	11,079	16,556
Ferro-nickel .. ..	23,248	20,957	12,238	19,587	22,349	32,388
Unwrought .. ..	5,650	4,159	4,057	4,783	8,236	8,005
do. alloys .. ..	3	5	4	27	57	122
Scrap (a) .. ..	1,102	1,745	1,641	1,804	1,324	476
Semi-manufactures (a)	1,628	1,598	1,704	1,727	2,488	2,083
Germany (Federal)—						
Ore .. ..	—	16	20	682	119	521
Matte and speiss ..	530	1,205	481	1,240	3,622	4,067
Unwrought (a) .. ..	31,580	19,278	18,610	18,914	23,033	23,555
Scrap (a) .. ..						
Semi-manufactures (a)						
Italy—						
Matte and speiss ..	542	1,006	1,008	1,046	998	620
Unwrought (a) .. ..	5,307	5,008	4,363	6,067	7,098	8,322
Scrap .. ..	1,127	988	634	598	179	602
Semi-manufactures (a)	1,024	1,213	1,836	1,457	1,058	981
Nickel oxide .. ..	1,355	1,267	142	232	182	113
Netherlands—						
Unwrought .. ..	599	464	405	528	628	749
do. alloys .. ..	72	76	42	57	102	63
Scrap (a) .. ..	231	304	446	862	896	733
Semi-manufactures (a)	1,313	1,545	1,514	1,343	1,875	1,908
Nickel oxide .. ..	<i>n.a.</i>	169	166	206	228	127
Norway—						
Ore .. ..	49	90	211	—	—	—
Matte (copper-nickel) ..	60,695	63,328	59,896	55,559	50,009	59,760
Scrap (a) .. ..	2,631	3,938	524	165	1,397	2,727
Semi-manufactures (a)	212	323	333	283	264	243
Portugal—						
Unwrought and semi-manufactures ..	47	112	200	82	151	201
Spain—						
Matte and speiss .. ..	873	819	374	291	326	434
Unwrought (a) .. ..						
Semi-manufactures (a)						
Sweden—						
Matte and speiss .. ..	1,823	898	358	340	375	575
Unwrought .. ..	8,729	8,592	6,980	8,047	11,352	12,795
do. alloys .. ..	498	374	398	198	246	181
Scrap (a) .. ..	439	225	94	266	620	824
Semi-manufactures (a)	718	930	965	968	815	782
Switzerland—						
Unwrought and scrap (a)	1,381	1,636	1,591	1,084	1,317	972
Semi-manufactures (a)	503	751	743	637	741	1,397
Yugoslavia—						
Unwrought .. ..	300	216	353	566	576	562
Semi-manufactures (a)	22	19	17	82	92	96
Algeria—						
Semi-manufactures (a)	89	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Egypt—						
Semi-manufactures ..	225	181	45	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Mexico—						
Unwrought .. ..	103	296	240	146	222	<i>n.a.</i>
Semi-manufactures ..	220	182	209	253	214	<i>n.a.</i>

(a) Including alloys.

## IMPORTS OF NICKEL (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
United States—						
Ore and matte .. .. .	164	—	21	30	—	72
Unwrought and scrap ..	71,247	103,806	104,083	97,170	95,241	121,066
Semi-manufactures .. .	119	287	362	<i>n.a.</i>	3,014	2,304
Nickel oxide .. .. .	21,950	13,048	7,733	11,506	15,056	12,136
Argentina—						
Unwrought .. .. .	105	69	62	73	177	202
Semi-manufactures .. .	101	288	136	127	331	307
Brazil—						
Unwrought (a) .. .	346	741	866	322	352	273
Semi-manufactures (a)	198	192	307	267	142	230
Chile—						
Unwrought .. .. .	41	38	19	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Unwrought (a) .. .	21	30	34	48	37	7
Semi-manufactures (a)	213	193	101	340	616	108
Formosa—						
Unwrought (a) .. .	55	91	99	177	101	106
Iran—						
Semi-manufactures .. .	346	388	319	290	196	132
Japan—						
Ore .. .. .	930,731	1,030,024	664,212	668,764	1,125,173	951,474
Matte .. .. .	253	707	676	3,869	5,343	4,288
Unwrought (a) .. .	176	251	1,054	169	2,438	2,615
Semi-manufactures (a)	199	544	669	776	1,351	654
Philippine Republic—						
Semi-manufactures (a)	65	37	21	12	58	<i>n.a.</i>
Turkey—						
Semi-manufactures (a)	47	44	86	101	87	68

(a) Including alloys.

**NITROGEN COMPOUNDS**  
**PRODUCTION OF NITROGEN COMPOUNDS\***

Long tons

Producing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom (a)—						
Nitrogenous fertilizers expressed as 25% NH <sub>3</sub> .. .. .	2,086,700	2,235,900	2,257,300	2,630,200	2,782,500	2,952,000
Actual ammonium sulphate .. .. .	1,066,000	1,084,000	1,090,000	1,152,600	1,170,000	990,000
Canada—						
Ammonium sulphate .. .. .	268,501	269,070	253,589	246,740	284,504	260,437
Ammonium nitrate .. .. .	<i>n.a.</i>	<i>n.a.</i>	311,312	404,538	380,441	462,882
Trinidad (b)—						
(N content)						
Nitrogen fertilizers .. .. .	—	12,028	25,546	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
India—						
Ammonium sulphate .. .. .	382,813	389,000	411,000	436,000	421,110	431,658
do. (N content) .. .. .	75,600	77,800	82,300	87,100	84,200	<i>n.a.</i>
Pakistan (d)—						
Ammonium sulphate .. .. .	44,711	50,506	51,964	49,724	40,002	37,931
Ammonium nitrate .. .. .	—	1,321	41,884	66,955	61,199	<i>n.a.</i>
Australia—						
Ammonium sulphate .. .. .	100,750	103,840	100,980	86,410	97,370	107,830
<b>OTHER COUNTRIES</b>						
Austria (b)—						
(N content)						
Nitrogen fertilizers .. .. .	159,400	159,400	169,600	170,700	167,100	181,800
Belgium—						
(N content)						
Synthetic ammonia, etc. . . . .	314,280	271,310	276,710	309,740	351,610	391,660
Ammonium sulphate .. .. .	15,710	14,300	16,950	13,520	15,930	14,700
Mixed fertilizers .. .. .	26,430	31,260	38,450	50,690	59,540	67,950
Technical products .. .. .	11,700	12,800	14,520	19,760	23,690	18,790
Bulgaria—						
(N content)						
Nitrogen fertilizers .. .. .	82,274	86,341	92,530	99,353	202,200	<i>n.a.</i>
Czechoslovakia—						
Nitrogen fertilizers						
(N content) .. .. .	137,672	143,891	151,485	151,382	155,881	216,041
Finland (b)—						
(N content)						
Cyanamide .. .. .	657	29	—	76	135	143
Ammonium nitrate .. .. .	—	16,300	13,778	13,262	19,783	23,239
Calcium nitrate .. .. .	—	—	—	882	1,312	1,929
Other nitrogen fertilizers	25,458	30,418	30,451	23,042	29,296	38,972
Mixed fertilizers .. .. .	4,461	5,639	6,029	7,879	8,858	8,619
France (e)—						
(N content)						
Ammonium sulphate .. .. .	70,800	74,200	79,600	r 71,800	86,300	87,400
Cyanamide .. .. .	2,331	2,881	2,533	r 2,859	2,347	2,573
Sodium nitrate .. .. .	500	—	—	r 3	80	3
Calcium nitrate .. .. .	37,600	37,700	39,200	r 32,200	41,700	35,100
Ammonium nitrate .. .. .	329,200	394,800	451,000	r 425,800	508,600	611,400
Ammonium phosphate .. .. .	1,400	(c)	(c)	(c) 700	1,500	500
Other nitrogen fertilizers	20,300	31,800	47,100	r 53,100	64,100	84,800
Mixed fertilizers .. .. .	103,800	118,800	140,900	r 147,700	193,400	233,600
Germany (Federal)—						
Chemical nitrogen						
(N content)						
Fertilizer .. .. .	1,108,141	1,124,441	1,154,680	1,201,683	1,244,842	1,339,555
Technical use .. .. .	235,311	231,775	258,164	277,163	330,800	356,399

\*Includes by-product ammonium sulphate which is separately recorded as far as available on pages 85-88.

(a) Source: British Sulphate of Ammonia Federation.

(d) West Pakistan.

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

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

(c) Included with mixed fertilizers.

## PRODUCTION OF NITROGEN COMPOUNDS (cont.)

Long tons

Producing Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES (cont.)						
Germany (East)—						
(N content)						
Ammonium sulphate	175,614	172,350	170,405	173,669	168,705	168,717
Cyanamide .. ..	16,196	15,752	16,401	15,947	17,854	17,215
Lime ammonium nitrate .. ..	120,081	117,687	119,377	117,790	119,436	121,073
Potassium ammonium nitrate .. ..	12,416	12,614	13,420	12,492	5,324	15,800
Hungary—						
Nitrogen fertilizers ..	273,695	324,870	347,533	380,839	441,674	712,683
Iceland (a)—						
(N content) .. ..						
Ammonium nitrate	6,300	7,000	7,300	6,400	6,600	6,400
Italy—						
Ammonium sulphate ..	1,240,055	1,342,846	1,315,190	1,312,500	1,313,346	1,468,058
Ammonium sulpho-nitrate .. ..	—	—	28,299	59,110	43,109	48,703
Cyanamide .. ..	125,007	77,449	119,298	111,750	81,181	84,976
Sodium nitrate .. ..	6,899	9,418	7,534	6,873	8,728	8,781
Potassium nitrate .. ..	1,993	6,762	9,441	17,419	71,160	11,546
Calcium nitrate .. ..	361,441	334,189	324,875	331,488	354,159	336,605
Ammonium nitrate .. ..	799,939	793,523	779,442	707,020	584,636	770,889
Di-ammonium phosphate .. ..	200,039	243,097	339,535	387,151	491,722	456,831
Ammonium phosphate						
Netherlands (a)—						
(N content)						
Ammonium sulphate ..	69,600	75,200	79,800	69,900	69,900	68,600
Ammonium nitrate ..	229,800	219,400	214,000	r 214,000	269,900	304,300
Calcium nitrate .. ..	26,700	28,100	20,500	23,600	24,600	22,900
Other nitrogen fertilizers	47,600	56,600	79,500	81,700	72,800	98,200
Mixed fertilizers	26,000	31,000	34,700	60,600	30,800	24,900
Norway—						
Cyanamide .. ..	4,990	4,058	2,788	4,104	4,713	4,261
Ammonium nitrate .. ..	10,784	12,350	13,856	14,034	18,455	16,611
Calcium nitrate .. ..	1,125,418	1,145,270	1,576,278	1,161,066	1,160,136	1,243,106
Sodium nitrate .. ..	1,724	2,740	3,015	1,402	1,775	1,401
Lime ammonium nitrate	46,478	94,535	115,266	95,265	118,356	147,101
Poland—						
Ammonium sulphate ..	127,000	145,000	159,000	170,000	194,000	217,000
Cyanamide .. ..	173,000	178,000	161,000	149,000	179,000	165,000
"Salezrak" .. ..	423,000	537,000	571,000	613,000	634,000	601,000
Portugal—						
Cyanamide .. ..	7,529	14,875	5,511	10,369	8,724	n.a.
Ammonium sulphate ..	177,557	177,721	178,479	244,985	240,856	n.a.
Ammonium nitrate .. ..	n.a.	62,723	82,766	166,092	195,646	n.a.
Calcium nitrate .. ..	n.a.	5,475	17,042	15,499	20,367	n.a.
Roumania—						
Nitrogen fertilizers						
(N content) .. ..	18,641	29,461	43,256	83,510	106,276	163,680
Spain—						
(N content) .. ..						
Cyanamide .. ..	1,614	841	775	747	764	1,254
Lime ammonium nitrate	30,123	39,983	49,415	65,676	74,685	84,074
Ammonium sulphate ..	68,850	85,495	83,180	103,840	128,382	154,709
Sweden—						
Ammonium nitrate ..	11,880	11,699	12,672	14,032	16,987	n.a.
Ammonium sulphate ..	5,687	3,326	10,059	9,369	8,446	n.a.
Cyanamide .. ..	23,345	26,150	17,977	9,057	714	n.a.
Lime ammonium nitrate	134,865	169,101	150,440	157,334	187,197	n.a.
Mixed fertilizers ..	67,625	85,377	92,751	141,078	176,029	n.a.

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

PRODUCTION OF NITROGEN COMPOUNDS (cont.)

Long tons

Producing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES (cont.)</b>						
<b>Switzerland (a)—</b>						
<i>(N content)</i>						
Cyanamide .. ..	2,000	2,100	2,100	2,000	2,000	2,200
Ammonium sulphate .. ..	4,100	5,100	4,100	r 5,200	5,200	5,300
Ammonium nitrate .. ..	5,400	5,300	5,700	r 8,100	8,100	8,500
Calcium nitrate .. ..	3,000	3,000	3,000	r 3,800	3,500	3,500
Mixed fertilizers .. ..	1,500	1,800	2,100	r 4,000	4,000	4,000
<b>U.S.S.R.—</b>						
Nitrogen fertilizers						
<i>(N content)</i> .. ..	988,000	1,150,000	1,392,000	1,731,000	2,066,000	n.a.
<b>Yugoslavia—</b>						
Ammonium nitrate .. ..	24,971	24,255	20,440	11,356	n.a.	n.a.
Ammonium sulphate .. ..	12,098	12,279	10,954	11,269	12,220	n.a.
Cyanamide .. ..	7,266	10,572	29,274	29,227	874	n.a.
<b>Egypt—</b>						
Ammonium nitrate .. ..	73,608	311,000	338,000	324,618	428,788	370,770
Calcium nitrate .. ..	253,099	266,935	268,323	256,916	251,288	273,258
Ammonium sulphate .. ..	—	—	—	28,375	90,205	58,768
<b>South Africa (a)—</b>						
Nitrogen fertilizers						
<i>(N content)</i> .. ..	21,900	37,600	58,400	n.a.	n.a.	n.a.
<b>Mexico—</b>						
Ammonium sulphate .. ..	144,861	150,110	154,776	135,804	n.a.	n.a.
Ammonium nitrate .. ..	53,479	69,848	121,989	136,295	n.a.	n.a.
<b>Netherlands Antilles—</b>						
Nitrogen compounds .. ..	n.a.	n.a.	n.a.	n.a.	102,168	129,077
Mixed fertilisers .. ..	n.a.	n.a.	n.a.	n.a.	38,840	46,015
<b>United States—</b>						
Sulphate equivalent of ammonia produced (coke-ovens) .. ..	656,644	618,807	598,777	641,766	708,846	717,641
Actual ammonium sulphate (coke-ovens) .. ..	563,967	529,980	522,661	553,286	607,935	619,011
Actual ammonium sulphate (synthetic plants) .. ..	768,000	849,000	992,000	1,049,000	1,452,000	1,757,000
Anhydrous ammonia (synthetic plants) .. ..	4,301,521	4,649,000	5,187,000	5,948,000	6,816,000	7,685,000
Ammonium nitrate, original .. ..	2,780,000	2,888,000	3,041,000	3,536,000	4,056,000	4,106,000
Ammonium phosphate .. ..	n.a.	(b) 1,103,000	(b) 1,420,000	2,353,000	2,764,000	3,153,000
<b>Brazil—</b>						
Ammonium sulphate .. ..	7,255	6,695	8,151	8,034	n.a.	n.a.
Lime ammonium nitrate .. ..	68,465	58,696	56,144	54,484	n.a.	n.a.
<b>Chile—</b>						
Sodium and potassium nitrate (natural) .. ..	915,612	r1,092,527	r1,085,129	r1,117,932	1,154,386	1,140,152
<b>Peru (a)—</b>						
Nitrogen fertilizers						
<i>(N content)</i> (c) .. ..	45,100	(b) 49,000	(b) 61,400	(b) 65,200	n.a.	n.a.
<b>Formosa—</b>						
Cyanamide .. ..	61,443	62,858	77,364	63,064	50,648	26,267
Ammonium sulphate .. ..	n.a.	r 28,876	r 69,371	r 109,633	219,512	275,520
Nitro-phosphate .. ..	20,688	19,802	—	—	3,521	7,898
Nitro-chalk .. ..	42,430	52,177	56,743	54,221	62,148	47,843
<b>Israel—</b>						
Ammonium sulphate .. ..	60,381	32,475	65,438	68,252	78,520	76,522
<b>Japan—</b>						
Ammonium sulphate .. ..	2,385,070	2,464,079	2,470,000	2,224,000	2,256,000	2,449,000
Cyanamide .. ..	351,720	329,104	297,000	314,000	329,000	339,000
Ammonium nitrate .. ..	51,262	51,584	51,210	n.a.	n.a.	n.a.
Ammonium chloride .. ..	237,510	r 332,531	r 485,965	r 486,656	472,398	494,490

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

(b) Estimated.

(c) Including guano.



PRODUCTION OF NITROGEN COMPOUNDS (cont.)

Long tons

Producing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Philippine Republic (a)— <i>(N content)</i>						
Ammonium sulphate	<i>n.a.</i>	7,300	7,300	} 7,600	<i>n.a.</i>	<i>n.a.</i>
Ammonium phosphate	<i>n.a.</i>	—	—			
Turkey—						
Ammonium sulphate ..	4,549	4,200	<i>n.a.</i>	87,401	62,484	90,200
Ammonium nitrate ..	—	<i>n.a.</i>	<i>n.a.</i>	57,865	84,556	84,000

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

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

## EXPORTS OF NITROGEN COMPOUNDS

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ammonium sulphate ..	187,419	166,711	359,439	384,722	366,239	417,976
Ammonium chloride ..	15,310	16,227	11,162	11,248	13,938	11,232
Ammonium nitrate ..	496	487	454	3,104	11,621	14,326
Other manufactured nitrogen fertilizers ..	1,894	1,097				
Liquid ammonia ..	4,396	3,852	4,346	3,736	3,954	5,704
Anhydrous ammonia ..						
Canada—						
Ammonium sulphate ..	(£3,151,628)	(£2,612,495)	(£2,376,851)	(£2,167,006)	(£2,010,432)	(£2,965,482)
Ammonium nitrate ..	<i>n.a.</i>	<i>n.a.</i>	(£3,891,663)	(£4,352,326)	(£3,654,737)	(£3,381,919)
Other nitrogen fertilizers ..	(£7,035,149)	(£7,880,620)	(£4,654,386)	(£5,241,100)	(£5,150,709)	(£4,940,746)
Trinidad and Tobago—						
Ammonium sulphate ..	69,663	87,642	73,733	82,287	78,825	<i>n.a.</i>
India (a)—						
Potassium nitrate ..	39	8	8	5	—	3
Sodium nitrate ..	40	31	32	4	3	—
Malaya—						
Anhydrous ammonia ..	176	415	461	420	520	428
Other nitrogen fertilizers	1,200	1,315	1,307	1,392	1,861	2,358
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Potassium nitrate ..	36	—	1	1	1	1
Sodium nitrate ..	20	56	60	246	8	26
Calcium nitrate ..	5	344	—	—	—	1
Ammonium sulphate ..	553,855	552,353	390,206	390,893	259,044	402,245
Ammonium chloride ..	159	34	106	23	35	46
Ammonium nitrate ..	174,220	139,345	167,488	195,161	208,985	281,521
Cyanamide ..	5,114	3,900	3,794	2,988	6,597	17,534
Anhydrous ammonia ..	6,389	<i>n.a.</i>	<i>n.a.</i>	25,887	45,952	49,138
France—						
Potassium nitrate ..	1,653	2,079	2,322	2,762	2,076	1,935
Sodium nitrate ..	7,580	1,298	455	800	571	756
Calcium nitrate ..	19,439	17,100	15,450	16,667	30,551	95,825
Ammonium sulphate ..	100,252	169,582	149,272	250,820	210,348	215,837
Ammonium chloride ..	44	58	4	4	47	52
Ammonium nitrate ..	253,731	124,102	206,484	46,514	44,005	53,364
Cyanamide ..	188	471	195	57	30	1,661
Anhydrous ammonia ..	307	18,294	5,138	16,040	7,858	27,289
Germany (Federal)—						
Potassium nitrate ..	13,082	11,582	12,254	12,746	14,305	13,949
Sodium nitrate ..	11,452	24,883	19,881	10,706	9,918	5,319
Calcium nitrate ..	113,140	125,679	104,923	109,446	122,481	129,820
Ammonium nitrates ..	864,779	780,638	886,430	1,012,752	700,956	448,740
Ammonium chloride ..	10,810	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Other nitrogen fertilizers	796,054	831,309	759,096	814,711	728,474	759,463
Germany (East)—						
Nitrogen fertilizers (b)	112,167	104,222	99,512	91,245	65,620	72,014
Anhydrous ammonia ..	707	4,546	5,102	755	811	873
Hungary—						
Nitrogen fertilizers ..	<i>n.a.</i>	40,835	25,313	—	—	—

(a) Years ended March 31 following that stated.

(b) N content.

## EXPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Italy—						
Potassium nitrate ..	606	971	925	910	80	999
Sodium nitrate ..	89	38	15	477	45	135
Calcium nitrate ..	15,455	9,635	12,795	16,999	—	1,986
Ammonium nitrate ..	385,538	432,115	553,468	411,979	197,948	352,112
Ammonium sulphate ..	570,986	808,354	669,886	908,035	728,796	746,339
Cyanamide ..	15,359	1,282	513	3,451	1,769	6,826
Netherlands—						
Potassium nitrate ..	68	84	134	70	104	421
Sodium nitrate ..	254	188	63	274	240	372
Calcium nitrate ..	64,003	63,887	47,774	37,502	48,750	45,422
Ammonium sulphate ..	261,387	183,802	296,552	363,209	277,931	354,270
Ammonium chloride ..	220	110	66	22	30	129
Ammonium nitrate ..	354,375	342,237	314,819	154,942	120,442	172,137
Lime ammonium nitrate						
Anhydrous ammonia ..	9,975	3,881	2,053	2,140	2,283	5,013
Norway—						
Sodium nitrate ..	2,120	2,405	1,912	r 1,625	1,901	—
Calcium nitrate ..	1,099,000	1,117,534	1,119,803	r1,173,265	1,138,565	1,231,470
Ammonium nitrate ..	2,979	1,630	2,624	7,422	8,549	6,813
Cyanamide ..	1,808	1,372	536	1,718	1,215	1,471
Anhydrous ammonia ..	462	385	185	849	737	2,798
Poland—						
Ammonium chloride ..	1,569	3,105	n.a.	4,335	3,614	3,595
Nitrogen fertilizers ..	17,044	46,105	n.a.	19,979	25,500	44,000
Portugal—						
Ammonium sulphate ..	19,277	36,928	36,726	39,294	44,808	25,233
Ammonium nitrate ..	—	113	24	23,146	56,754	34,055
Sodium nitrate ..	38	99	458	73	140	245
Calcium nitrate ..	1	1,179	4,440	8,391	10,257	9,198
Sweden—						
Ammonium nitrate ..	147	187	185	278	1,370	648
Switzerland—						
Potassium and sodium nitrates (purified) ..	—	3	—	—	—	—
Ammonium sulphate, etc. ..	10,807	10,041	11,883	20,046	26,519	28,589
U.S.S.R.—						
Ammonium nitrate ..	86,500	126,900	75,400	157,000	41,800	8,200
Ammonium sulphate ..	167,500	265,900	397,400	404,000	220,300	325,200
Yugoslavia—						
Cyanamide ..	—	—	598	2,181	46	262
United States—						
Sodium nitrate ..	928	1,087	852	2,129	848	416
Ammonium nitrate ..	35,170	26,676	37,699	22,386	78,783	92,604
Ammonium sulphate ..	211,883	128,973	480,816	437,812	431,950	858,572
Other nitrogen fertilizers ..	56,445	16,201	55,962	11,877	53,953	30,857
Nitrogen phosphatic fertilizers ..	95,867	69,202	107,607	165,430	324,211	285,404
Anhydrous ammonia (a)	97,018	91,444	53,096	67,215	132,571	164,467
Chile—						
Sodium nitrate ..	713,191	1,012,080	822,000	895,704	870,154	907,664
Potassium nitrate ..	53,545	67,301	60,422			
Israel—						
Anhydrous ammonia ..	971	1,156	2,762	n.a.	n.a.	n.a.
Japan—						
Cyanamide ..	295	313	280	13	19,807	44,406
Ammonium nitrate ..	1,463	2,359	11,392	5,892	8,300	20,572
Ammonium chloride ..	2,646	52,670	63,207	322	234,773	176,910
Ammonium sulphate ..	870,435	792,563	850,923	1,207,225	833,218	1,242,930
Anhydrous ammonia ..	191	134	50	81	253	595
Other nitrogen fertilizers	1,222	3,042	60,805	6,456	37,350	31,742

(a) Ammonia content.

## IMPORTS OF NITROGEN COMPOUNDS

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—						
Natural sodium nitrate ..	13,073	19,775	15,201	13,347	14,952	17,963
Manufactured fertilizers—						
Nitrogenous ..	191,825	204,663	199,274	314,539	292,196	264,813
Ammonium phosphate ..	11,730	17,912	14,820	10,904	11,557	3,429
Potassium nitrate ..	2,683	3,368	3,434	2,793	3,029	<i>n.a.</i>
Malta—						
Ammonium sulphate ..	2,111	2,468	1,131	2,367	2,118	931
Gambia—						
Ammonium sulphate ..	1	2	—	—	—	—
Ghana—						
Ammonium sulphate ..	271	207	513	79,436	757	855
Other nitrogen fertilizers	19	426	94	7	7	4
Kenya—						
Ammonium sulphate ..	9,757	7,544	6,814	4,652	12,157	20,586
Other nitrogen fertilizers	4,975	7,914	10,317	12,916	19,502	26,552
Malawi—						
Ammonium sulphate ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	6,097	<i>n.a.</i>
Ammonium nitrate ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	41	<i>n.a.</i>
Mauritius—						
Nitrogen fertilizers ..	37,188	34,860	41,861	36,743	26,908	20,393
Nigeria—						
Ammonium sulphate ..	878	996	3,448	} 3,040	8,821	14,601
Other nitrogen fertilizers	870	129	218			
Rhodesia (a)—						
Nitrates ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ammonium sulphate ..	25,923	33,528	35,720	31,964	53,522	53,996
Other nitrogen fertilizers	32,671	42,038	47,856	53,668	61,565	71,713
Sierra Leone—						
Ammonium sulphate ..	20	126	322	571	1	43
Tanzania—						
Ammonium sulphate ..	2,804	3,036	3,113	3,465	8,077	8,679
Other nitrogen fertilizers	501	631	1,959	3,180	5,118	5,981
Uganda—						
Ammonium sulphate ..	2,436	3,868	1,579	2,905	5,015	5,457
Other nitrogen fertilizers	1,623	2,940	2,040	505	1,195	858
Zambia—						
Ammonium sulphate ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	2,111	11,052
Ammonium nitrate ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	472	616
Canada—						
Potassium nitrate ..	662	818	815	760	789	1,308
Sodium nitrate ..	16,324	14,604	15,195	14,955	18,044	19,958
Ammonium sulphate ..	7,755	8,875	12,635	12,731	15,739	13,814
Ammonium chloride ..	414	276	261	229	<i>n.a.</i>	<i>n.a.</i>
Ammonium nitrate ..	27	578	67	45	<i>n.a.</i>	<i>n.a.</i>
Anhydrous ammonia ..	3,035	6,027	1,095	2,903	<i>n.a.</i>	<i>n.a.</i>
Other nitrogen fertilizers	537	592	888	691	<i>n.a.</i>	<i>n.a.</i>
Antigua—						
Nitrogen fertilizers ..	666	808	—	<i>n.a.</i>	3	—
Barbados—						
Nitrogen fertilizers ..	11,516	11,024	12,303	12,118	13,683	8,567
Grenada—						
Ammonium sulphate ..	419	450	595	827	392	372
Other nitrogen fertilizers	30	1,076	855	690	176	490
Jamaica—						
Ammonium sulphate ..	13,834	24,137	22,522	r 25,306	33,485	23,188
Other nitrogen fertilizers ..	1,391	2,606	1,099	r 2,681	2,139	1,651
St. Kitts—						
Nitrogen fertilizers ..	1,815	2,155	2,306	2,202	2,616	2,433
St. Lucia—						
Nitrogen fertilizers ..	350	640	445	899	849	442

(a) Figures for years 1960 to 1963 relate to Rhodesia and Nyasaland.

## IMPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES (cont.)						
St. Vincent—						
Ammonium sulphate ..	325	1,135	868	420	205	871
Trinidad and Tobago—						
Ammonium sulphate ..	660	—	(a) 390	n.a.	n.a.	n.a.
British Guiana—						
Ammonium sulphate ..	17,927	19,855	20,703	n.a.	16,923	21,431
Ceylon—						
Natural sodium nitrate ..	45	25	59	99	61	270
Ammonium sulphate ..	128,863	138,588	170,669	166,419	179,036	182,490
Ammonium nitrate ..	465	220	181	180	334	206
Cyanamide ..	121	78	24	—	—	25
Cyprus—						
Ammonium sulphate ..	15,586	21,256	21,798	26,660	14,872	17,419
Other nitrogen fertilizers	6,217	10,819	9,293	15,945	11,543	13,423
Hong Kong—						
Potassium nitrate .. r	189	r 299	r 684	r 626	423	404
Sodium nitrate .. r	370	r 515	r 531	r 596	723	826
Ammonium sulphate .. r	1,203	r 5,352	r 4,862	r 242	892	659
Synthetic nitrates ..	21	r 236	r 10	r 94	45	255
Ammonium chloride .. r	726	r(c) 153	r 1,051	r 1,219	1,055	932
India (a)—						
Potassium nitrate ..	11	6	19	2	2	—
Sodium nitrate ..	13,261	19,844	21,771	18,929	9,398	15,545
Ammonium sulphate ..	248,589	238,243	564,238	444,729	445,983	826,596
Ammonium nitrate ..	2,140	12,881	10,114	1,486	1,032	863
Ammonium phosphate ..	5	8	9,846	23,581	35,632	46,636
Ammonium chloride ..	17	11	1	7	2	2,977
Other nitrogen fertilizers	43,322	43,380	20,365	26,826	6,553	22,856
Malaya—						
Nitrogen fertilizers ..	106,863	118,936	120,383	143,225	163,543	159,198
Anhydrous ammonia ..	4,242	3,878	4,905	4,678	5,045	6,258
Pakistan—						
Sodium nitrate ..	55,224	160	241	88	n.a.	n.a.
Ammonium sulphate ..	29,683	103,860	107,164	150,873	n.a.	n.a.
Ammonium chloride ..	128	523	443	329	154	n.a.
Anhydrous ammonia ..	100	83	24	46	n.a.	n.a.
Sabah—						
Ammonium sulphate ..	531	327	728	595	n.a.	n.a.
Other nitrogen fertilizers	31	115	35	13	1,979	2,076
Sarawak—						
Ammonium sulphate ..	539	290	3,698	3,568	n.a.	7,069
Other nitrogen fertilizers	55	177	358	244	6,680	
Australia (b)—						
Potassium nitrate ..	451	519	355	424	403	470
Sodium nitrate ..	6,837	5,670	7,709	5,611	8,939	7,215
Ammonium chloride ..	50	90	1,162	1,424	1,517	2,039
Ammonium sulphate ..	11	110	17,493	37,458	117,593	71,406
Ammonium nitrate ..	162	469	576			
Fiji—						
Nitrogen fertilizers ..	n.a.	n.a.	n.a.	18,648	29,014	28,518
New Zealand—						
Potassium nitrate ..	128	196	116	(b) 128	(b) 166	n.a.
Sodium nitrate ..	2,971	3,781	2,320	(b) 85	(b) 121	(b) 3,705
Ammonium sulphate ..	7,736	8,226	6,608	(b) 9,850	(b) 6,745	(b) 13,723
Ammonium chloride ..	407	784	n.a.	n.a.	(b) 1,750	6,837
Ammonium nitrate ..	5,696	5,624	1,913	(b) 942	(b) 1,025	
Anhydrous ammonia ..	62	38	83	(b) 114	(b) 92	
Cyanamide ..	—	—	23	(b) 45	(b) 376	

(a) Years ended March 31 following that stated.

(b) Years ended June 30 of that stated.

(c) Excess of re-exports.

## IMPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
Irish Republic—						
Sodium nitrate ..	4,265	4,316	4,350	2,865	2,166	973
Ammonium sulphate ..	83,136	94,358	97,135	124,531	120,327	81,960
Anhydrous ammonia ..	107	110	113	119	133	14,398
Ammonium nitrate ..	20,253	26,449	29,063	39,147	28,996	27,407
Other nitrogen fertilizers	650	699	427	3,267	8,879	4,714
OTHER COUNTRIES						
Austria—						
Calcium nitrate ..	1,303	927	798	861	807	610
Potassium nitrate ..	367	428	320	399	385	507
Cyanamide ..	1,640	2,251	2,949	2,758	2,211	1,775
Belgium-Luxemburg						
E.U.—						
Potassium nitrate ..	2,007	2,279	2,156	2,631	2,809	2,607
Sodium nitrate ..	21,356	22,876	23,910	22,619	33,514	17,913
Calcium nitrate ..	15,804	5,816	10,299	7,437	8,890	9,571
Cyanamide ..	486	479	384	455	501	2,082
Ammonium sulphate ..	9,754	7,808	11,142	12,105	15,729	22,603
Ammonium chloride ..	2,462	1,892	2,314	2,064	2,567	2,449
Ammonium nitrate ..	14,856	24,162	21,705	82,758	82,477	108,210
Anhydrous ammonia ..	57	n.a.	n.a.	1,178	1,759	5,241
Czechoslovakia—						
Nitrogen fertilizers (a)	33,630	37,000	21,000	43,000	49,000	49,000
Denmark—						
Potassium nitrate ..	1,188	879	1,034	1,206	1,335	1,295
Sodium nitrate ..	20,134	16,092	11,079	25,567	37,275	32,067
Calcium nitrate ..	685,176	728,911	727,037	669,238	580,497	539,356
Ammonium sulphate ..	14,298	10,501	9,975	9,312	9,689	7,047
Ammonium chloride ..	832	966	695	1,086	954	1,215
Ammonium nitrates ..	7,904	14,728	25,279	23,718	58,368	44,449
Cyanamide ..	117	160	120	174	141	116
Finland—						
Potassium nitrate ..	140	263	383	168	528	552
Sodium nitrate ..	307	386	356	3,078	2,244	360
Calcium nitrate ..	95,534	69,352	60,311	61,758	86,283	65,344
Ammonium nitrate ..	4,232	33,327	2,918	13,657	7,508	31,053
Ammonium sulphate ..	42,478	34,221	34,336	40,031	38,158	50,364
Ammonium chloride ..	671	1,002	694	606	1,153	1,517
France—						
Sodium nitrate ..	72,163	66,823	63,885	49,685	64,820	45,591
Calcium nitrate ..	—	—	119	485	660	1,419
Ammonium sulphate ..	25,090	22,977	25,007	43,270	49,008	38,465
Ammonium nitrate ..	5	3,768	39,402	14,010	8,329	3,335
Ammonium chloride ..	1,554	1,572	1,710	1,961	2,171	1,890
Anhydrous ammonia ..	4,809	7,030	9,530	27,224	39,959	41,759
Cyanamide ..	27	192	492	2,582	4,171	5,251
Germany (Federal)—						
Potassium nitrate ..	337	756	1,069	1,188	2,202	3,019
Sodium nitrate ..	15,025	13,021	12,859	11,712	11,173	464
Ammonium nitrates ..	10,088	21,074	26,817	81,006	117,580	146,335
Ammonium chloride ..	n.a.	21	158	359	860	1,504
Other nitrogen fertilizers	30	25	2,182	517	791	9,213
Greece—						
Potassium nitrate ..	123	89	95	79	104	167
Sodium nitrate ..	1,972	2,362	2,882	6,084	5,597	5,100
Ammonium nitrate ..	77,670	49,145	40,174	56,869	38,671	54,587
Ammonium sulphate ..	130,834	129,696	159,907	182,769	125,699	105,746
Ammonium chloride ..	186	186	250	206	171	123
Lime ammonium nitrate	34,068	56,778	74,484	74,049	64,034	30,433
Other nitrogen fertilizers						

(a) N content.

## IMPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Hungary—						
Nitrogen fertilizers ..	150,249	147,779	299,208	463,763	475,095	310,000
Iceland—						
Calcium nitrate .. ..	30	177	198	—	5	1
Lime ammonium nitrate	1,968	—	30	6,308	10,266	11,303
Nitrophoska .. ..	1,673	2,116	—	—	4,486	—
Italy—						
Potassium nitrate ..	1,240	758	727	1,027	2,061	1,501
Sodium nitrate .. ..	8,500	15,571	9,723	4,724	141	85
Calcium nitrate .. ..	—	—	—	—	4,669	—
Ammonium chloride ..	373	444	488	1,492	1,396	1,059
Ammonium nitrate ..	2,341	3,284	3,397	2,999	2,616	1,743
Ammonium sulphate ..	114	853	3,256	4,043	112	115
Cyanamide .. ..	81	—	324	1,372	—	—
Netherlands—						
Potassium nitrate ..	1,293	1,841	2,477	2,807	2,914	3,146
Sodium nitrate .. ..	10,660	24,643	29,357	34,238	19,711	32,075
Calcium nitrate .. ..	3,730	1	13	14,042	1	1
Ammonium sulphate ..	1,330	2,009	245	2,271	455	650
Ammonium chloride ..	1,787	1,401	1,460	1,481	1,779	2,043
Ammonium nitrate ..	56,249	67,371	78,408	95,343	379	303
Lime ammonium nitrate						
Cyanamide .. ..	872	3,221	3,300	1,369	2,273	4,855
Anhydrous ammonia ..	1,585	<i>n.a.</i>	119	13,629	19,021	27,078
Other nitrogen fertilizers	17,330	17,797	16,060	7,113	35	681
Norway—						
Potassium nitrate ..	164	156	215	178	164	240
Ammonium chloride ..	242	331	336	412	416	467
Ammonium sulphate ..	343	354	456	479	407	407
Anhydrous ammonia ..	—	—	13,612	9,310	36,801	20,325
Poland—						
Nitrogen fertilizers ..	64,000	27,400	<i>n.a.</i>	49,300	50,200	280,000
Portugal—						
Potassium nitrate ..	321	402	291	296	286	430
Sodium nitrate .. ..	9,056	8,050	4,594	12,524	3,100	604
Calcium nitrate .. ..	7,984	6,681	—	—	—	—
Ammonium sulphate ..	46,828	28,145	—	10,039	24	4,472
Ammonium chloride ..	145	167	102	137	153	143
Ammonium nitrate ..	11,283	5,918	1,575	443	10	10
Cyanamide .. ..	974	—	—	—	—	—
Nitrophoska .. ..	9,727	11,853	15,022	14,672	8,326	<i>n.a.</i>
Anhydrous ammonia ..	3	15,849	2,872	12,823	—	1,982
Roumania—						
Nitrogen fertilizers (a)	8,500	4,400	1,200	3,445	1,900	—
Spain—						
Sodium nitrate .. ..	72,429	83,605	135,790	118,147	123,170	120,295
Ammonium sulphate ..	297,570	513,250	591,856	454,349	519,116	469,619
Calcium nitrate .. ..	123,149	83,422	131,325	126,785	143,124	126,056
Other nitrogen fertilizers	60,378	59,974	38,802	55,740	40,637	61,110
Sweden—						
Potassium nitrate ..	976	873	1,129	1,005	1,122	1,206
Sodium nitrate .. ..	31,033	39,410	27,813	24,815	31,160	33,523
Calcium nitrate .. ..	340,122	328,165	352,820	352,660	376,481	403,984
Ammonium nitrate ..	75	79	36	156	325	357
Ammonium sulphate ..	21,647	16,500	9,281	11,347	14,233	7,828
Ammonium chloride ..	1,238	1,182	1,215	1,055	1,265	1,521
Switzerland—						
Potassium and sodium nitrates .. ..	808	604	842	933	925	944

(a) N content.

## IMPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES						
<i>(cont.)</i>						
Switzerland <i>(cont.)</i>						
Ammonium sulphate, etc. . . . .	505	544	607	501	683	827
Ammonium chloride . . . . .	1,197	830	793	889	993	1,080
Ammonium and calcium nitrates . . . . .	46	218	253	5,266	264	176
Yugoslavia—						
Sodium nitrate . . . . .	14,763	40	207	162	28,276	4,529
Ammonium sulphate . . . . .	13,811	19,988	46,480	95,072	97,250	101,813
Ammonium nitrate . . . . .	—	129	12,861	10,801	9,428	1,798
Lime ammonium nitrate . . . . .	333,011	314,847	467,631	414,818	327,259	129,848
Other nitrogen fertilizers . . . . .	18,366	15	85	6,107	28,009	1,798
Algeria—						
Potassium nitrate . . . . .	151	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sodium nitrate . . . . .	794	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Calcium nitrate . . . . .	3,986	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ammonium chloride . . . . .	18	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ammonium sulphate . . . . .	19,264	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ammonium nitrate . . . . .	29,362	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Cyanamide . . . . .	129	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Angola—						
Sodium nitrate . . . . .	<i>n.a.</i>	268	221	136	273	35
Ammonium nitrate . . . . .	<i>n.a.</i>	1,669	1,257	913	1,284	816
Ammonium sulphate . . . . .	4,097	3,887	4,811	5,443	6,309	8,666
Cameroun—						
Nitrogen fertilizers . . . . .	5,706	6,319	10,743	12,976	32,859	22,037
Canary Islands—						
Ammonium sulphate . . . . .	60,085	51,095	62,688	50,112	62,396	55,495
Calcium nitrate . . . . .	—	549	689	196	1,034	747
Other nitrogen fertilizers . . . . .	1,946	5,722	6,249	3,622	3,246	2,117
Central African Republic . . . . .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	803	1,937
Congo, Republic of . . . . .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,141	1,059
Egypt—						
Sodium nitrate . . . . .	18,715	36,805	248	10	139	<i>n.a.</i>
Calcium nitrate . . . . .	18,211	—	—	167,117	267,793	<i>n.a.</i>
Ammonium sulphate . . . . .	94,438	195,325	60,374	29,531	26,083	<i>n.a.</i>
Ammonium chloride . . . . .	179	299	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ammonium nitrate . . . . .	432,692	181,313	44,293	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ammonium sulpho-nitrate . . . . .	20,531	—	187,760	15,324	32,173	<i>n.a.</i>
Malagasy Republic—						
Nitrogen fertilizers . . . . .	2,476	2,150	1,376	1,049	1,803	<i>n.a.</i>
Morocco—						
Potassium nitrate . . . . .	26	62	308	231	254	216
Sodium nitrate . . . . .	300	293	228	467	133	71
Calcium nitrate . . . . .	725	524	829	745	458	220
Ammonium nitrate . . . . .	11,361	12,467	16,329	7,156	3,626	6,861
Ammonium sulphate . . . . .	14,126	18,984	24,240	24,215	31,378	29,359
Other nitrogen fertilizers . . . . .	2,641	1,676	3,949	8,443	11,192	9,296
Reunion—						
Nitrogen fertilizers . . . . .	11,051	10,794	7,797	9,967	10,688	10,147
South Africa—						
Potassium nitrate . . . . .	329	605	849	1,273	<i>n.a.</i>	<i>n.a.</i>
Sodium nitrate . . . . .	1,010	1,459	1,008	983	<i>n.a.</i>	<i>n.a.</i>
Ammonium sulphate . . . . .	39,161	50,833	60,599	117,179	131,247	<i>n.a.</i>
Ammonium chloride . . . . .	1,557	2,116	801	1,111	820	<i>n.a.</i>
Ammonium nitrate . . . . .	49,928	33,626	21,957	49,355	738	<i>n.a.</i>
Sudan—						
Sodium, calcium and ammonium nitrates (synthetic) . . . . .	15,238	26,233	62,019	14,387	25,484	59,815
Other nitrogen fertilizers . . . . .	34,162	41,521				



## IMPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Tunisia—						
Nitrogen fertilizers ..	11,827	12,596	13,289	25,869	24,613	16,253
Costa Rica—						
Nitrogen fertilizers ..	14,105	13,416	16,613	11,487	11,948	82,496
Dominican Republic—						
Ammonium sulphate ..	7,506	33,938	17,290	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
French West Indies—						
Guadeloupe—						
Nitrogen fertilizers ..	4,624	3,194	1,578	2,165	2,248	2,887
Martinique—						
Nitrogen fertilizers ..	11,788	10,436	8,310	8,132	7,605	6,648
Guatemala—						
Sodium nitrate ..	505	1,019	299	20	153	60
Other nitrogen fertilizers	13,039	10,872	7,291	16,216	16,907	33,087
Honduras—						
Nitrogen fertilizers ..	11,849	11,731	11,936	12,410	14,565	20,728
Mexico—						
Sodium nitrate ..	11,276	8,571	9,125	3,074	356	<i>n.a.</i>
Ammonium chloride ..	646	837	343	—	1	<i>n.a.</i>
Ammonium sulphate ..	621	1	3	4	8,264	<i>n.a.</i>
Ammonium nitrate ..	9,286	11,411	826	6,129	18,834	<i>n.a.</i>
Anhydrous ammonia ..	61,452	62,983	34,785	51,043	73,150	102,400
Nicaragua—						
Sodium nitrate ..	—	101	<i>n.a.</i>	389	423	124
Other nitrogen fertilizers	2,466	6,266	11,777	11,777	3,831	27,163
Panama Republic—						
Nitrogen fertilizers ..	11,172	14,670	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Salvador—						
Sodium nitrate ..	296	1,069	1,383	592	267	12
Other nitrogen fertilizers	47,774	52,886	50,026	76,450	100,810	73,646
United States—						
Potassium and sodium						
nitrates, crude ..	16,636	12,322	27,301	34,000	12,052	6,615
Potassium nitrate ..	2,739	3,961	3,187	3,970	2,824	4,377
Sodium nitrate ..	317,064	441,379	434,000	106,737	324,300	349,949
Calcium nitrate ..	55,378	65,837	51,935	37,210	48,875	29,643
Ammonium sulphate ..	188,706	216,845	215,177	209,381	185,682	161,490
Ammonium chloride ..	5,789	5,268	4,607	2,311	<i>n.a.</i>	2,916
Ammonium nitrate ..	219,249	222,521	302,322	185,375	212,552	159,796
Ammonium phosphates	107,087	100,887	75,034	115,812	85,845	155,768
Cyanamide ..	39,375	37,488	32,987	25,800	21,428	16,713
Argentina—						
Potassium nitrate ..	156	68	2	—	—	—
Sodium nitrate ..	1,493	16,352	13,791	9,845	10,667	10,590
Ammonium sulphate ..	7,820	12,580	4,324	23,866	38,110	45,081
Ammonium chloride ..	637	1,234	1,354	1,003	2,576	1,589
Brazil—						
Potassium nitrate ..	1,337	749	802	777	750	894
Sodium nitrate ..	36,151	53,131	32,122	34,309	25,304	30,628
Potassium and sodium						
nitrates ..	15,841	2,989	12,104	16,429	7,171	21,296
Ammonium chloride ..	1,292	1,617	1,948	1,363	2,078	1,104
Ammonium nitrate ..	18,179	8,884	5,758	2,180	7,577	100
Ammonium sulphate ..	154,889	124,441	115,893	178,611	141,295	206,667
Cyanamide ..	323	133	165	—	90	41
Other nitrogen fertilizers	12,926	9,685	7,324	6,876	9,483	4,294
Chile—						
Ammonium chloride ..	180	566	496	361	<i>n.a.</i>	<i>n.a.</i>
Ammonium sulphate ..	224	354	170	657	<i>n.a.</i>	<i>n.a.</i>
Ammonium nitrate ..	3,197	7,368	7,866	18,226	<i>n.a.</i>	<i>n.a.</i>
Anhydrous ammonia ..	48	109	50	43	<i>n.a.</i>	<i>n.a.</i>

## IMPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES (cont.)						
Colombia—						
Potassium nitrate ..	205	247	208	401	196	87
Sodium nitrate ..	79	30	384	1,551	20	20
Ammonium chloride ..	292	540	478	684	606	229
Ammonium sulphate ..	7,163	9,728	4,758	4,508	491	—
Other nitrogen fertilizers	17,145	19,766	17,047	14,442	6,745	203
Anhydrous ammonia ..	161	133	207	122	2	5
Ecuador—						
Nitrogen fertilizers ..	<i>n.a.</i>	4,322	3,656	5,873	8,857	<i>n.a.</i>
Peru—						
Potassium nitrate ..	129	76	63	9	95	156
Sodium nitrate ..	10,479	6,254	5,696	4,651	6,508	5,430
Anhydrous ammonia ..	68	37	24	46	65	16
Other nitrogen fertilizers	114,414	107,720	121,955	93,901	85,678	109,833
Uruguay—						
Potassium nitrate ..	111	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sodium nitrate ..	619	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ammonium sulphate ..	4,921	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Venezuela—						
Potassium nitrate ..	137	172	105	210	177	140
Sodium nitrate ..	651	377	478	120	215	184
Calcium nitrate ..	1,769	4,090	—	—	—	3
Ammonium sulphate ..	17,333	18,894	19,146	18,562	2,267	—
Anhydrous ammonia ..	619	698	598	798	716	148
Cyanamide ..	—	1	—	—	49	—
Burma—						
Nitrogen fertilizers ..	10,361	207	180	37,079	13,911	8,934
Formosa—						
Sodium nitrate ..	237	287	<i>n.a.</i>	440	707	1,245
Ammonium chloride ..	173	1,322	633	3,562	400	589
Ammonium sulphate ..	291,426	187,826	231,550	105,704	171,009	108,988
Other nitrogen fertilizers	40,966	46,672	71,978	83,860	75,341	71,394
Indonesia—						
Potassium nitrate ..	181	76	224,510	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sodium nitrate ..	219	23		<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ammonium chloride ..	311	575		<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ammonium sulphate ..	139,950	116,902		<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Anhydrous ammonia ..	920	1,654		<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Other nitrogen fertilizers	6,167	57,216	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	
Iran (a)—						
Ammonium chloride ..	<i>n.a.</i>	<i>n.a.</i>	490	185	258	105
Nitrogen fertilizers ..	<i>n.a.</i>	8,960	5,205	7,503	4,706	7,987
Iraq—						
Nitrogen fertilizers ..	2,859	3,932	6,680	8,337	9,117	<i>n.a.</i>
Israel—						
Nitrogen fertilizers ..	2,954	—	19,916	<i>n.a.</i>	2,116	2,517
Japan—						
Sodium nitrate ..	16,354	20,285	18,701	20,143	20,408	22,243
Ammonium sulphate ..	3,839	886	2	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Jordan—						
Nitrogen fertilizers ..	805	1,958	2,628	4,521	2,523	<i>n.a.</i>
Korea (South)—						
Ammonium sulphate ..	508,218	573,008	602,762	600,023	204,738	339,828
Ammonium nitrate ..	24,180	2,416	14,114	1,604	1,968	2,693
Ammonium chloride ..	453	461	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Cyanamide ..	1,380	1,806	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Other nitrogen fertilizers	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	58,920	144,791	51,833
Lebanon—						
Nitrogen fertilizers ..	36,787	42,275	30,431	52,983	52,744	<i>n.a.</i>

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

## IMPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Philippine Republic—						
Potassium nitrate ..	3,512	<i>n.a.</i>	<i>n.a.</i>	28	218	<i>n.a.</i>
Sodium nitrate ..	142	309	1,123	732	289	<i>n.a.</i>
Ammonium phosphate ..	21,301	24,858	19,708	6,882	15,966	<i>n.a.</i>
Ammonium sulphate ..	47,955	60,050	102,754	30,844	85,553	<i>n.a.</i>
Other nitrogen fertilizers	34,959	33,283	35,785	10,122	60,380	<i>n.a.</i>
Syria—						
Nitrogen fertilizers ..	30,908	46,198	38,307	<i>n.a.</i>	18,192	44,405
Thailand—						
Potassium nitrate ..	787	705	743	933	855	866
Ammonium chloride ..	741	1,358	1,297	1,533	2,016	1,982
Ammonium sulphate ..	28,757	29,621	28,520	42,349	32,311	26,506
Other nitrogen fertilizers	2,289	2,383	2,765	1,846	1,735	2,163
Turkey—						
Sodium nitrate ..	1,476	1,434	348	952	1,688	4,144
Ammonium chloride ..	198	775	507	359	511	584
Ammonium sulphate ..	39,583	121,679	136,731	15,922	31,979	126,829
Ammonium nitrate ..	1,366	2,038	6,302	63	146	9,957
Vietnam (South)—						
Nitrogen fertilizers ..	54,552	48,582	53,504	182,372	<i>n.a.</i>	<i>n.a.</i>

# PETROLEUM AND ALLIED PRODUCTS

## PRODUCTION OF CRUDE PETROLEUM\*

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom—						
Crude petroleum ..	85,400	105,800	110,900	122,800	127,400	82,400
Shale oil ..	59,900	43,100	15,500	—	—	—
Nigeria (b) ..	r 872,000	2,302,000	r 3,373,000	3,824,000	6,027,000	13,564,000
Canada (b) ..	25,271,229	29,446,411	r32,548,687	34,457,973	36,715,182	39,437,267
Barbados (b) ..	419	241	18	3	—	—
Trinidad (b) ..	6,051,047	6,538,253	6,982,306	6,954,038	7,103,495	6,979,848
Abu Dhabi (c) ..	—	—	729,000	2,350,000	5,928,853	9,010,743
Bahrain Islands (c) ..	2,213,000	2,213,000	2,213,000	2,227,000	2,402,000	2,789,000
Brunei ..	4,473,867	4,015,618	3,720,253	3,383,789	3,488,000	3,874,000
India ..	442,240	502,000	r1,001,657	1,626,560	2,177,240	2,980,000
Pakistan (b) ..	r 366,100	r 393,000	r 463,700	r 474,900	504,400	520,000
Qatar (c) ..	8,083,032	8,249,305	8,670,919	8,953,349	8,802,292	9,013,660
Sarawak ..	59,442	59,498	57,274	51,126	48,243	48,125
Australia ..	—	—	—	—	274,258	329,041
New Zealand ..	783	627	569	570	581	616
<b>TOTAL</b> ..	<b>r47,978,000</b>	<b>r53,869,000</b>	<b>r59,887,000</b>	<b>r64,426,000</b>	<b>73,599,000</b>	<b>88,629,000</b>
<b>OTHER COUNTRIES</b>						
Albania ..	717,000	759,000	773,000	739,000	752,000	n.a.
Austria ..	2,409,722	2,318,657	2,355,883	2,578,480	2,620,829	2,809,460
Bulgaria ..	197,000	203,000	196,000	170,000	157,000	226,000
Czechoslovakia ..	135,000	152,000	174,000	177,000	192,000	189,000
France ..	1,941,896	2,129,211	2,327,419	2,476,219	2,792,152	2,941,000
Germany (Federal)—						
Crude petroleum ..	5,442,555	6,106,467	6,669,330	7,266,112	7,551,440	7,759,378
Shale oil ..	19,805	15,946	1,899	—	—	—
Hungary ..	1,197,475	1,433,945	1,614,641	r1,729,562	1,772,522	1,774,000
Italy ..	1,966,568	1,940,497	r 1,777,353	1,756,007	2,644,568	2,193,654
Netherlands ..	1,887,382	2,014,169	2,123,000	2,180,000	2,230,000	2,357,400
Poland ..	191,300	199,400	199,300	209,100	277,500	334,000
Roumania ..	11,318,724	11,399,107	11,676,293	12,040,000	12,199,000	12,372,000
U.S.S.R. ..	145,524,000	163,445,000	r183,303,000	r202,814,000	220,072,000	239,160,000
Yugoslavia ..	928,662	1,319,574	1,501,393	1,585,181	1,770,194	2,030,497
Algeria (e) ..	8,395,700	15,419,724	20,174,000	23,273,000	25,817,000	25,614,000
Angola ..	65,794	102,780	463,793	787,028	890,448	645,014
Congo (Republic of) ..	51,028	101,313	121,440	107,495	31,987	70,000
Egypt ..	r3,267,000	3,759,000	r4,602,000	r5,504,000	6,254,000	6,390,000
Gabon ..	787,470	762,217	813,958	875,629	1,041,650	1,244,474
Libya ..	—	861,000	8,691,000	21,748,000	40,913,000	57,000,000
Morocco ..	90,877	78,740	125,296	147,534	117,877	101,265
Senegal ..	1,600	2,100	400	—	—	—
South Africa—						
Shale oil (a) ..	25,062	6,045	—	—	—	—
Cuba (b) (d) ..	15,000	12,000	13,000	10,000	40,000	40,000
Mexico (b) ..	13,951,000	15,040,000	15,750,000	16,178,000	16,278,000	16,610,000
United States (b) ..	343,324,400	349,567,700	356,825,200	367,029,700	371,576,300	379,801,900
Argentina (b) ..	r8,987,419	r11,886,848	13,821,175	13,670,100	14,112,500	13,831,100
Bolivia (b) ..	r 379,000	r 329,800	r 317,200	r 384,500	381,700	404,800
Brazil (b) ..	3,983,298	4,462,400	4,282,000	4,578,000	4,271,000	4,403,000
Chile ..	928,000	1,189,000	1,500,000	1,695,000	1,756,000	1,630,000
Colombia (b) ..	7,855,000	7,500,000	7,311,000	r8,499,000	8,816,324	10,312,856
Ecuador (b) ..	367,206	389,861	342,806	321,499	372,810	379,835

\*Excluding Natural Gasoline. See page 248.

(a) Years ended June 30 of that stated.

(b) The following conversion rates have been used: 35 gallons=1 barrel, and the undermentioned barrels=1 ton—Nigeria 7.3, Canada 7.5, Barbados 8.1, Trinidad 7.0, Burma 7.4, Pakistan 7.2 (1960—1962) 7.4 (1963 onwards), Cuba 6.8, Mexico 7.1, United States 7.5, Argentina 7.1, Bolivia 8.2, Brazil 7.4 (1960) 7.8 (1961 onwards), Columbia 7.1, Ecuador 7.5, Venezuela 7.1, Indonesia 7.5.

(c) British Protected State.

(d) Estimated.

(e) Including French Sahara.

## PRODUCTION OF CRUDE PETROLEUM (cont.)

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b> (cont.)						
Peru .. .. .	2,531,000	2,546,000	2,777,000	2,822,000	3,039,000	3,040,000
Venezuela .. .. .	r146,602,000	r149,992,000	r164,370,000	r166,846,000	174,765,000	178,400,000
Burma .. .. .	551,355	569,965	590,021	642,965	562,282	n.a.
China (a) .. .. .	5,000,000	6,600,000	(e)6,500,000	(e)6,000,000	(e)6,000,000	(e)7,500,000
Formosa .. .. .	1,870	2,190	1,850	2,450	8,040	17,295
Indonesia .. .. .	20,270,726	20,948,230	22,424,000	21,923,000	22,964,000	23,720,000
Iran (b) .. .. .	50,991,000	57,094,000	63,461,000	70,497,000	81,114,000	88,473,000
Iraq .. .. .	46,534,398	48,054,764	48,214,537	55,576,822	60,350,313	63,150,413
Israel .. .. .	129,000	135,000	133,000	149,000	196,000	200,000
Japan .. .. .	514,000	642,000	743,608	767,296	642,096	660,000
Kuwait .. .. .	80,573,627	r90,721,636	r81,408,294	r95,666,630	105,033,846	107,322,975
Mongolia .. .. .	28,100	26,000	23,000	19,000	n.a.	n.a.
Netherlands New Guinea (c) .. .. .	244,579	164,791	n.a.	n.a.	n.a.	n.a.
Saudi Arabia .. .. .	61,087,931	68,138,424	74,554,207	79,768,933	84,442,667	99,436,852
Turkey .. .. .	356,760	418,071	586,004	733,168	906,864	1,537,626
Neutral Zone (d) .. .. .	7,175,000	9,349,000	12,846,000	16,487,000	19,228,000	18,860,000
<b>TOTAL .. .. .</b>	<b>r 989,000,000</b>	<b>r1,060,000,000</b>	<b>r1,129,000,000</b>	<b>r1,219,000,000</b>	<b>1,307,000,000</b>	<b>1,386,000,000</b>
<b>WORLD'S TOTAL .. .. .</b>	<b>r1,037,000,000</b>	<b>r1,114,000,000</b>	<b>r1,189,000,000</b>	<b>r1,283,000,000</b>	<b>1,381,000,000</b>	<b>1,475,000,000</b>

(a) Including oil from shale and coal.

(b) 1954 Oil Agreement Area only.

(c) Exports.

(d) Neutral Zone of Kuwait and Saudi Arabia.

(e) Estimated.

## PRODUCTION OF NATURAL GASOLINE

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Canada .. .. .	164,139	213,068	227,380	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Trinidad (a) .. .. .	23,686	21,539	22,024	19,364	22,696	22,361
Brunei .. .. .	64,465	63,289	65,040	68,565	65,000	56,000
New Zealand .. .. .	—	—	374	398	405	23
<b>OTHER COUNTRIES</b>						
France .. .. .	159,872	214,272	254,104	265,496	281,240	331,000
Italy .. .. .	58,016	56,239	54,209	54,218	62,126	66,952
Poland .. .. .	18,800	19,900	21,100	19,400	20,000	23,200
Roumania .. .. .	283,747	302,702	315,044	343,299	346,000	<i>n.a.</i>
Yugoslavia .. .. .	6,000	5,000	5,000	6,000	10,000	<i>n.a.</i>
Algeria .. .. .	35,000	134,000	199,000	237,000	254,000	<i>n.a.</i>
Egypt .. .. .	10,000	9,000	9,000	7,000	7,000	<i>n.a.</i>
Mexico .. .. .	1,126,000	1,162,000	1,127,000	1,270,000	1,612,000	<i>n.a.</i>
United States .. .. .	11,297,570	11,635,440	12,027,560	12,944,890	14,162,470	14,621,880
Argentina .. .. .	r 11,516	r 9,291	10,000	12,000	11,000	<i>n.a.</i>
Chile .. .. .	20,000	18,000	48,000	60,000	59,000	<i>n.a.</i>
Colombia .. .. .	80,572	75,633	73,335	74,587	84,854	<i>n.a.</i>
Ecuador .. .. .	14,560	14,480	12,590	12,420	13,604	13,624
Venezuela .. .. .	403,096	399,397	383,911	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Formosa .. .. .	229	570	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Japan .. .. .	6,000	6,000	10,796	18,461	26,153	<i>n.a.</i>
<b>WORLD'S TOTAL (b)</b>	<b>14,000,000</b>	<b>14,000,000</b>	<b>15,000,000</b>	<b>16,000,000</b>	<b>18,000,000</b>	<b>18,000,000</b>

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

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

## PRODUCTION OF NATURAL GAS\*

Million cubic feet

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom .. .. .	35	106	115	200	200	<i>n.a.</i>
Nigeria .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,130	( <i>b</i> ) 1,500	<i>n.a.</i>
Canada .. .. .	522,972	655,738	946,703	1,117,425	1,407,098	1,470,083
Barbados .. .. .	62	85	100	111	80	102
Trinidad .. .. .	27,042	29,375	30,018	29,365	38,452	41,456
Brunei .. .. .	( <i>a</i> ) 2,879	( <i>a</i> ) 2,844	( <i>a</i> ) 2,830	( <i>a</i> ) 2,377	6,297	7,450
Pakistan .. .. .	29,842	34,665	42,076	49,459	59,102	66,000
Australia .. .. .	—	12	56	96	106	144
New Zealand .. .. .	5	5	4	5	5	5
<b>OTHER COUNTRIES</b>						
Austria .. .. .	51,844	54,952	57,734	59,999	62,290	60,873
Czechoslovakia .. .. .	45,700	44,600	37,720	35,200	33,300	<i>n.a.</i>
France .. .. .	158,106	213,966	247,384	265,593	280,354	279,000
Germany (Federal) .. .. .	19,996	22,158	28,345	39,752	61,375	91,399
Hungary .. .. .	12,065	11,429	12,010	21,590	27,702	39,103
Italy .. .. .	227,682	242,355	<i>r</i> 252,521	256,628	270,780	275,469
Netherlands .. .. .	11,700	15,900	17,600	20,100	29,500	<i>n.a.</i>
Poland .. .. .	19,400	25,900	29,000	34,700	43,470	48,660
Roumania .. .. .	358,200	385,400	455,800	503,700	546,800	610,300
U.S.S.R. .. .. .	1,599,900	2,082,900	2,596,500	<i>r</i> 3,172,400	3,834,000	4,509,000
Yugoslavia .. .. .	1,869	2,428	3,366	<i>r</i> 6,748	9,675	11,655
Algeria (Sahara) .. .. .	—	21,600	30,700	40,360	45,700	73,240
Gabon .. .. .	263	237	310	304	334	376
Morocco .. .. .	300	300	350	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Tunisia .. .. .	253	256	253	258	277	280
Mexico .. .. .	341,311	360,564	371,358	401,560	485,050	493,300
United States .. .. .	12,771,038	13,254,025	13,876,622	14,746,663	15,546,592	16,129,043
Argentina .. .. .	<i>r</i> 125,127	173,345	218,299	213,240	232,712	<i>n.a.</i>
Bolivia .. .. .	210	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Brazil .. .. .	18,889	18,604	18,056	17,774	18,800	24,100
Chile .. .. .	<i>r</i> 31,400	<i>r</i> 44,530	<i>r</i> 62,220	67,840	62,900	<i>n.a.</i>
Colombia .. .. .	14,300	14,700	20,900	24,800	29,500	32,400
Venezuela .. .. .	161,907	170,117	183,236	198,111	180,206	227,709
Burma .. .. .	730	333	634	570	<i>n.a.</i>	<i>n.a.</i>
Formosa .. .. .	898	1,309	1,356	1,789	5,982	10,936
Indonesia .. .. .	86,576	91,455	96,000	99,000	<i>n.a.</i>	<i>n.a.</i>
Iran .. .. .	33,558	34,720	37,143	40,212	42,100	43,400
Israel .. .. .	—	100	375	347	1,041	2,559
Japan .. .. .	25,831	33,559	<i>r</i> 42,698	59,845	65,641	62,879

\*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: 1960—642; 1961—728; 1962—713; 1963—2,232; 1964—4027; 1965—4,365.

Shipments from Bureau of Mines plants: 1960—475; 1961—552; 1962—600; 1963—627; 1964—667; 1965—699.

(*a*) Sales. (*b*) Estimated.

PRODUCTION OF ASPHALT ROCK

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
France .. .. .	95,451	94,561	101,800	104,523	102,549	114,761
Germany (Federal) ..	88,485	81,025	97,329	91,000	120,054	100,178
Italy .. .. .	402,176	334,477	313,682	380,461	334,013	265,334
Angola .. .. .	25,366	22,423	35,665	53,876	43,469	22,513
United States (a) ..	1,109,709	1,014,000	1,067,200	1,088,900	1,289,500	n.a.
Philippine Republic ..	18,081	6,546	6,824	5,104	—	—

(a) Shipments.

PRODUCTION OF NATURAL ASPHALT, ETC.

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
Trinidad .. .. .	154,296	175,326	162,613	169,308	189,246	165,881
OTHER COUNTRIES						
Spain .. .. .	8,667	8,915	8,366	r 7,700	9,500	n.a.
United States (a)—						
Gilsonite .. .. .	341,997	377,100	403,300	n.a.	n.a.	n.a.
Argentina—						
Grahamite ("Rafaelite")	2,579	1,059	(b) 713	(b) 828	(b) 1,052	(b) 443
Imponite .. .. .	r 6,062	3,613	2,200	4,100	2,400	3,100

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

(a) Shipments.

(b) Exports.

PRODUCTION OF OIL-SHALE

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom ..	668,816	467,813	156,000	—	—	—
OTHER COUNTRIES						
Austria .. .. .	751	542	606	320	44	571
France .. .. .	2,632	4,046	2,883	2,977	3,359	4,000
Germany (Federal) (c) ..	373,231	306,230	96,428	56,929	107,385	136,973
Italy .. .. .	138	173	246	n.a.	n.a.	n.a.
Spain .. .. .	819,361	842,908	719,077	798,608	701,139	620,283
Sweden (b) .. .. .	3,649,767	3,400,944	3,447,067	3,263,446	3,536,385	1,878,023
South Africa (a) .. ..	144,971	n.a.	—	—	—	—

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

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

(b) Alum shale. The amounts used as retort shale were as follows (long tons): 1960—3,316,000; 1961—3,122,535; 1962—3,174,219; 1963—3,049,010; 1964—3,174,128; 1965—n.a..

(c) The amounts used as retort shale were as follows (long tons): 1960—111,039; 1961—103,648; 1962—67,898; 1963—nil; 1964—nil; 1965—nil.



## PRODUCTION OF PETROLEUM REFINERY PRODUCTS IN CERTAIN COUNTRIES\*

Long tons

Producing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
<b>United Kingdom (a)—</b>						
Aviation and motor spirit	7,917,000	8,353,000	8,493,000	7,634,000	8,656,000	9,431,000
Other spirit .. ..	167,000	157,000	150,000	156,000	163,000	152,000
Kerosine .. ..	2,284,000	2,683,000	2,610,000	3,083,000	3,169,000	3,375,000
Gas oil and diesel oil ..	7,648,000	8,618,000	9,966,000	10,788,000	11,993,000	13,423,000
Fuel oil .. ..	18,533,000	21,150,000	21,962,000	21,142,000	22,810,000	25,873,000
Fuel used in refineries..	3,290,000	3,470,000	3,619,000	3,803,000	3,972,000	4,143,000
Lubricating oil .. ..	912,000	958,000	899,000	967,000	1,036,000	1,001,000
Bitumen .. ..	1,037,000	1,133,000	1,220,000	1,305,000	1,458,000	1,422,000
Paraffin wax .. ..	36,000	39,000	38,000	55,000	59,000	53,000
<b>Ghana—</b>						
Motor spirit .. ..	—	—	—	32,288	141,436	128,049
Kerosine .. ..	—	—	—	13,370	46,148	55,631
Gas oil .. ..	—	—	—	71,754	260,561	261,983
Fuel oil .. ..	—	—	—	48,785	255,616	250,335
<b>Barbados—</b>						
Motor spirit .. ..	1,505	2,057	2,484	2,468	3,076	7,022
Kerosine .. ..	1,852	2,127	2,102	2,123	3,010	3,693
Gas oil .. ..	—	375	454	875	—	592
Diesel oil .. ..	1,476	3,752	3,777	3,211	9,228	11,819
Fuel oil .. ..	6,702	12,181	11,159	11,100	14,547	17,446
Asphalt .. ..	—	790	1,321	1,090	2,803	4,529
<b>Canada (b)—</b>						
Aviation spirit .. ..	123,373	109,716	164,765	173,007	162,561	157,432
Motor spirit .. ..	11,412,518	11,654,678	12,389,273	13,321,500	13,929,830	14,574,753
Naphtha .. ..	198,900	201,561	186,280	225,779	245,726	275,491
Kerosine .. ..	1,912,900	2,007,569	2,242,058	2,397,362	2,334,603	2,362,426
Aviation turbine fuel ..	611,166	813,779	868,034	948,340	899,853	867,756
Gas oil, etc. .. ..	6,385,447	6,754,731	6,996,664	8,181,244	7,804,947	8,163,654
Diesel oil .. ..	3,837,402	3,674,460	4,131,139	4,527,930	4,943,335	5,337,146
Fuel oil .. ..	6,496,024	6,866,810	7,639,835	8,369,558	8,620,484	8,689,147
Lubricating oil and grease .. ..	287,893	210,244	227,256	244,051	243,422	240,662
Coke .. ..	575,951	333,365	268,139	222,143	169,205	196,141
Asphalt .. ..	1,531,016	1,444,049	1,475,778	1,586,547	1,691,706	1,796,629
<b>Trinidad—</b>						
Aviation spirit .. ..	469,935	432,917	433,791	(e) 107,765	(e) 108,562	(e) 95,965
Motor spirit .. ..	1,214,450	1,481,959	1,516,930	(e) 2,153,195	(e) 2,087,839	(e) 2,024,964
White spirit .. ..	8,577	9,250	7,650	8,222	7,260	4,023
Kerosine .. ..	305,828	486,117	255,160	229,692	302,046	390,790
Aviation turbine fuel ..	(d)	(d)	1,093,405	974,132	1,201,118	1,808,290
Gas and diesel oil .. ..	1,824,563	2,256,397	2,397,588	2,747,295	2,692,921	2,664,524
Fuel oil .. ..	6,845,265	8,668,667	9,301,140	10,195,646	10,967,287	11,606,922
Lubricating oil and greases .. ..	331	153	278	343	67,640	139,140
Bitumen .. ..	29,362	34,370	37,943	36,199	} 116,940	} 169,849
Other products .. ..	783,362	1,047,194	69,787	57,681		
<b>Aden—</b>						
Motor spirit etc. .. ..	381,000	474,000	439,000	404,000	390,000	394,000
Kerosine .. ..	r 313,000	r 510,000	r 661,000	r 649,000	764,000	681,000
Gas and diesel oil .. ..	829,000	1,055,000	1,203,000	1,275,000	1,281,000	1,254,000
Fuel oil .. ..	2,264,000	2,685,000	3,256,000	3,346,000	3,520,000	3,730,000
Other products .. ..	238,000	340,000	427,000	404,000	570,000	608,000
<b>Bahrain Islands (c)—</b>						
Motor spirit .. ..	2,097,000	2,148,000	1,931,000	1,655,000	1,662,000	1,272,000
Kerosine .. ..	715,000	617,000	569,000	531,000	437,000	399,000
Jet fuel .. ..	—	—	746,000	645,000	823,000	1,055,000

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

(a) Including distillation plants.

(b) Including the amount used in the refineries.

(c) British Protected State.

(d) Included with "Other products".

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

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

Long tons

Producing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES (cont.)</b>						
<b>Bahrain Islands (c)—</b>						
<i>(cont.)—</i>						
Gas oil and diesel oil ..	2,240,000	2,443,000	2,700,000	2,618,000	2,081,000	1,683,000
Fuel oil .. ..	4,356,000	4,630,000	5,121,000	4,906,000	4,069,000	4,050,000
Lubricating oil .. ..	39,000	28,000	<i>n.a.</i>	—	77,000	115,000
Bitumen .. ..	104,000	109,000	87,000	28,000	33,000	—
<b>India—</b>						
Motor and other spirits	1,030,600	1,051,906	1,142,926	} 7,529,230	8,317,020	(b)8,900,000
Kerosine .. ..	916,550	1,001,311	1,149,152			
Gas and diesel oils ..	1,574,340	1,642,241	1,762,800			
Fuel oil, etc. .. ..	1,666,060	1,782,482	1,924,358			
Lubricating oils .. ..	21,250	24,994	25,269			
Bitumen .. ..	393,470	431,434	362,373			
Other refined products	64,580	69,697	126,649			
<b>Malaya and Singapore—</b>						
Motor spirit .. ..	—	—	(b) 775,000	1,071,000	1,153,000	<i>n.a.</i>
Kerosine .. ..	—	—	(b) 397,000	271,000	416,000	<i>n.a.</i>
Gas and diesel oils ..	—	—	b 1,257,000	1,376,000	1,745,000	<i>n.a.</i>
Fuel oil .. ..	—	—	b 2,849,000	3,234,000	3,274,000	<i>n.a.</i>
<b>Pakistan—</b>						
Motor spirit .. ..	89,000	89,000	108,000	110,000	54,000	113,000
Kerosine .. ..	19,000	24,000	28,000	33,000	16,000	37,000
Diesel oil .. ..	75,000	93,000	115,000	123,000	61,000	140,000
Fuel oil .. ..	105,000	114,000	127,000	144,000	75,000	154,000
Lubricating oil .. ..	6,000	10,000	12,000	12,000	6,000	15,000
Bitumen .. ..	20,000	20,000	22,000	22,000	16,000	23,000
<b>Sarawak—</b>						
Motor spirit .. ..	—	5,100	12,500	—	6,800	<i>n.a.</i>
Gas and diesel oils ..	1,303,100	1,169,400	1,074,000	394,500	419,300	<i>n.a.</i>
Fuel oil .. ..	—	11,100	43,300	15,700	48,600	<i>n.a.</i>
Feedstocks (a) .. ..	1,022,600	1,075,100	1,069,800	1,717,800	1,849,900	<i>n.a.</i>
<b>Australia—</b>						
Aviation spirit .. ..	47,651	43,054	31,880	27,022	30,354	41,001
Motor spirit .. ..	3,571,457	3,863,924	3,977,627	4,281,400	4,621,548	4,963,000
Kerosine .. ..	168,844	136,941	154,920	174,443	273,799	325,860
Aviation turbine fuel ..	239,052	298,573	271,595	279,734	346,112	304,087
Gas and diesel oils ..	2,522,443	2,513,954	2,501,940	2,646,557	2,462,221	2,609,000
Fuel oil .. ..	3,205,877	3,737,178	4,273,460	4,712,293	4,912,000	5,070,000
do. (used in refineries)	839,058	930,286	1,078,605	1,291,972	1,495,332	<i>n.a.</i>
Lubricating oil .. ..	30,235	22,279	15,363	77,581	194,848	252,773
Bitumen .. ..	279,775	288,485	298,990	320,872	355,531	384,765
<b>New Zealand—</b>						
Motor spirit .. ..	147	124	247	295	260	<i>n.a.</i>
White spirit .. ..	47	41	47	34	41	<i>n.a.</i>
Kerosine .. ..	140	127	158	136	108	<i>n.a.</i>
Diesel oil .. ..	140	123	176	165	238	<i>n.a.</i>
Fuel oil .. ..	209	184	275	299	301	<i>n.a.</i>
<b>Irish Republic—</b>						
Motor spirit .. ..	278,000	301,800	} 319,000	332,000	376,000	<i>n.a.</i>
Kerosine .. ..	26,000	8,000				
Jet fuel .. ..	7,000	6,000	9,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Gas and diesel oils ..	406,000	445,200	463,000	487,000	531,000	<i>n.a.</i>
Fuel oil .. ..	598,000	586,500	636,000	651,000	740,000	<i>n.a.</i>

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

(b) Estimated.

(c) British Protected State.

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

Long tons

Producing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<b>Albania—</b>						
Motor spirit .. ..	53,000	55,000	48,000	54,000	51,430	<i>n.a.</i>
Kerosine .. ..	2,000	3,000	2,000	2,000	2,302	<i>n.a.</i>
Diesel oil .. ..	67,000	62,000	75,000	91,000	79,196	<i>n.a.</i>
<b>Austria—</b>						
Motor spirit .. ..	277,099	241,041	273,725	368,211	505,653	633,794
Kerosine .. ..	38,964	45,237	36,017	57,021	68,269	50,510
Gas oil .. ..	596,441	627,668	771,203	831,366	845,773	836,980
Fuel oil .. ..	804,319	914,453	1,194,747	1,370,472	1,565,966	1,755,219
Lubricating oil .. ..	77,431	87,432	117,497	108,988	189,040	182,404
Bitumen.. ..	66,621	85,923	111,699	124,660	156,360	184,060
<b>Belgium—</b>						
Aviation spirit and aviation turbine gasoline ..	117,240	177,900	216,650	224,970	244,030	271,960
Motor spirit .. ..	1,143,200	1,269,250	1,286,240	1,458,880	1,590,977	1,909,664
White spirit, etc. ..	157,340	34,010	52,200	59,950	59,110	75,360
Kerosine, including aviation kerosine .. ..	237,630	224,120	236,170	324,260	421,230	485,505
Gas oil .. ..	1,423,170	1,586,340	1,533,980	2,338,950	2,462,830	2,651,050
Diesel oil .. ..	665,710	766,550	970,160	1,363,670	1,634,530	2,032,394
Fuel oil .. ..	2,130,480	2,447,060	2,573,640	3,889,990	4,215,265	5,266,032
Lubricating oil .. ..	31,010	27,350	29,800	30,570	36,825	41,537
Bitumen.. ..	294,590	336,800	381,150	472,960	504,150	404,240
<b>Bulgaria—</b>						
Diesel oil .. ..	34,000	38,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Fuel oil .. ..	63,830	46,838	41,413	261,090	984,572	<i>n.a.</i>
Lubricating oil .. ..	24,000	22,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
<b>Czechoslovakia—</b>						
Motor spirit .. ..	421,000	531,000	526,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Kerosine .. ..	82,000	85,000	116,000	89,000	108,000	125,000
Diesel oil .. ..	1,152,000	1,342,000	1,434,000	1,627,000	1,751,000	2,039,000
<b>Denmark—</b>						
Motor spirit .. ..	—	47,827	198,929	361,341	584,486	838,722
Kerosine and gas oil .. ..				425,043	459,416	624,900
Diesel oil .. ..	10,872	115,812	474,469	33,848	182,726	352,086
Fuel oil .. ..				1,020,606	1,296,415	1,555,763
Lubricating oil .. ..	(a) 2,254	(a) 2,247	(a) 2,418	(a) 2,453	2,739	2,159
Grease .. ..	(a) 4,827	(a) 3,302	(a) 3,095	(a) 1,672	1,817	2,414
Asphalt .. ..	27,823	28,822	24,740	23,069	24,553	25,427
<b>France—</b>						
Motor spirit .. ..	6,325,000	6,946,000	6,923,000	r 7,804,000	8,598,000	9,421,000
Kerosine and jet fuel ..	1,344,000	1,550,000	1,672,000	1,789,000	1,771,000	1,903,000
Gas and diesel oil .. ..	3,315,000	4,274,000	4,422,000	r 4,386,000	4,665,000	5,889,000
Fuel oils .. ..	14,543,000	16,387,000	18,218,000	r21,949,000	26,251,000	30,746,000
Lubricating oil .. ..	642,000	683,000	683,000	791,000	841,000	<i>n.a.</i>
Other products (b) .. ..	2,242,000	2,494,000	2,900,000	r3,151,000	3,902,000	<i>n.a.</i>
<b>Germany (Federal)—</b>						
Aviation spirit .. ..	757,987	832,718	839,962	1,084,771	1,358,162	1,452,807
Motor spirit .. ..	5,369,545	6,510,549	7,225,298	8,127,307	8,957,683	9,720,428
White spirit .. ..	116,619	129,233	134,634	130,369	143,571	144,173
Kerosine .. ..	255,625	409,012	619,415	632,715	669,029	675,517
Diesel oil .. ..	4,765,109	5,485,114	6,057,543	7,131,679	6,680,977	6,801,165
Fuel oil .. ..	13,143,837	17,138,325	19,018,595	22,701,996	31,585,781	37,341,837
Lubricating oil .. ..	473,257	509,474	555,014	544,939	590,062	597,920
Grease .. ..	16,537	16,951	17,867	16,962	21,740	23,579
Paraffin wax .. ..	57,166	69,208	76,303	95,842	87,207	91,148
Coke .. ..	302,168	341,987	382,796	422,777	436,773	414,943
Bitumen.. ..	1,142,057	1,365,205	1,775,578	2,267,779	2,776,008	3,183,632
<b>Greece—</b>						
Motor spirit .. ..	205,000	212,326	r 254,536	r 233,577	248,167	235,839
Kerosine .. ..	123,000	121,014	135,000	r 139,691	143,042	131,220
Aviation turbine fuel ..	70,000	66,500	44,488	r 23,313	30,963	31,501
Diesel oil .. ..	439,000	498,160	r 534,068	r 594,151	574,942	585,087
Fuel oil .. ..	703,000	727,606	r 741,712	r 692,245	629,043	604,016
Asphalt .. ..	41,000	36,956	r 47,846	63,150	61,409	74,748

(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	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
<b>Hungary—</b>						
Motor spirit .. ..	324,190	333,057	342,905	r 328,062	364,204	448,000
Kerosine .. ..	49,139	63,786	67,221	70,943	37,778	20,691
Diesel oil .. ..	718,995	779,987	847,326	847,098	944,649	1,028,000
Fuel oil .. ..	972,211	1,121,609	1,262,263	1,381,142	1,616,987	1,698,000
Lubricating oils .. ..	99,410	98,973	100,112	98,934	109,482	114,213
Grease .. ..	17,921	18,242	18,476	18,399	18,516	19,021
Bitumen .. ..	309,511	339,756	378,064	409,607	448,470	477,000
<b>Italy—</b>						
Motor spirit .. ..	4,947,463	5,430,611	6,478,411	7,098,878	8,377,303	10,103,485
White spirit .. ..	32,460	36,977	36,730	46,306	42,852	39,276
Kerosine .. ..	1,043,725	1,356,829	1,350,744	1,504,246	1,597,528	2,302,303
Gas oil .. ..	5,850,372	6,276,158	7,487,436	8,811,322	10,171,158	12,109,050
Fuel oil and diesel oil .. ..	15,104,052	17,507,015	21,268,132	24,780,750	30,104,155	36,104,917
Lubricating oil .. ..	163,174	152,960	169,842	166,458	255,077	342,074
Bitumen .. ..	686,100	829,117	881,570	1,005,890	1,207,710	1,208,832
Other products .. ..	700,571	809,004	979,362	1,119,882	1,524,789	1,975,286
<b>Netherlands—</b>						
Motor spirit .. ..	3,164,000	2,898,000	3,446,000	3,602,000	2,725,000	2,703,000
White spirit and other solvents .. ..	<i>n.a.</i>	130,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Kerosine .. ..	1,405,000	1,611,000	935,000	955,000	940,000	1,109,000
Aviation fuels .. ..	<i>n.a.</i>	<i>n.a.</i>	950,000	843,000	961,000	765,000
Gas and diesel oil .. ..	4,380,000	4,668,000	5,379,000	5,082,000	5,930,000	6,463,000
Residual fuel oil .. ..	7,918,000	8,350,000	9,484,000	9,995,000	10,770,000	12,684,000
Lubricating oil .. ..	203,000	255,000	242,000	241,000	247,000	327,000
Bitumen .. ..	379,000	462,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
<b>Poland—</b>						
Aviation and motor spirit .. ..	116,800	132,900	240,200	296,600	377,100	695,600
Kerosine .. ..	99,800	79,600	27,600	20,800	15,700	30,800
Gas and diesel oil .. ..	236,000	276,700	411,500	470,400	579,000	901,400
Fuel oil .. ..	64,000	67,700	191,000	223,400	463,000	1,249,200
Lubricating oil .. ..	139,500	150,300	155,200	180,500	168,400	180,600
Grease .. ..	21,100	23,100	25,000	25,000	23,800	26,800
Paraffin wax .. ..	7,700	9,200	9,900	7,800	10,200	11,700
Bitumen .. ..	117,100	120,100	143,400	182,900	200,600	237,200
<b>Portugal—</b>						
Motor spirit .. ..	294,669	320,203	356,104	373,610	372,554	384,914
Kerosine .. ..	202,940	164,864	150,303	162,901	181,174	195,546
Jet fuel .. ..	16,968	8,901	11,685	31,282	28,687	38,708
Gas and diesel oil .. ..	254,516	255,056	250,519	284,965	316,749	325,764
Fuel oil .. ..	446,668	443,453	448,475	502,407	560,832	586,976
<b>Roumania—</b>						
Motor spirit .. ..	2,747,883	2,625,182	2,362,293	2,396,000	2,472,000	2,419,000
Kerosine and white spirit .. ..	1,269,037	1,214,526	1,214,977	1,067,000	974,000	950,000
Gas oil .. ..	2,338,444	2,611,434	2,864,085	3,061,000	3,333,000	3,543,000
Fuel oil .. ..	3,763,158	r 3,627,000	r 3,884,000	r 3,991,000	3,770,000	3,713,000
Bitumen .. ..	245,000	272,000	264,000	290,000	316,000	336,000
<b>Spain—</b>						
Motor spirit .. ..	575,000	(a) 703,000	732,000	706,000	1,065,000	<i>n.a.</i>
Kerosine and jet fuel .. ..	257,000	(a) 294,000	367,000	369,000	391,000	<i>n.a.</i>
Gas oil .. ..	855,000	a 1,213,000	1,373,000	1,380,000	1,842,000	<i>n.a.</i>
Diesel oil .. ..						
Fuel oil .. ..	2,000,000	a 2,087,000	2,548,000	2,679,000	3,089,000	<i>n.a.</i>
Lubricating oil .. ..	36,000	(a) 56,000	94,000	90,000	173,000	<i>n.a.</i>
<b>Sweden—</b>						
Motor spirit .. ..	372,400	365,921	358,749	386,741	492,732	<i>n.a.</i>
White spirit etc. .. ..	14,134	12,999	13,554	14,821	10,333	<i>n.a.</i>
Kerosine .. ..	105,200	5,789	8,017	4,000	3,000	<i>n.a.</i>
Fuel oil, etc. .. ..	1,962,800	1,747,000	1,808,000	1,873,000	2,439,000	<i>n.a.</i>
Lubricating oil .. ..	38,828	53,448	51,768	53,008	57,010	<i>n.a.</i>
Asphalt .. ..	252,506	324,888	334,482	367,016	428,667	<i>n.a.</i>

(a) United States Bureau of Mines' estimate.

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

Long tons

Producing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
<b>Yugoslavia—</b>						
Motor spirit .. ..	272,869	288,919	316,540	338,525	379,471	537,697
White spirit .. ..	8,706	8,297	10,427	12,107	15,830	15,372
Kerosine .. ..	72,847	57,936	79,706	87,458	96,648	80,406
Gas oil .. ..	348,077	398,152	523,847	608,119	690,317	875,752
Fuel oil .. ..	389,141	402,891	484,394	472,471	672,656	1,129,916
Lubricating oil .. ..	60,211	71,095	97,506	110,481	124,321	132,031
Bitumen .. ..	70,740	78,766	112,036	117,924	148,458	n.a.
Other products .. ..	7,749	6,151	6,317	7,415	10,679	n.a.
<b>Angola—</b>						
Motor spirit .. ..	28,000	32,912	49,691	64,235	52,495	54,864
Kerosine .. ..	3,100	2,513	3,806	9,435	5,823	6,843
Jet fuel .. ..	—	—	—	—	—	36,420
Gas and diesel oil .. ..	47,500	53,138	89,628	123,559	113,448	116,029
Fuel oil .. ..	94,900	110,398	184,731	251,901	310,739	286,580
Asphalt .. ..	—	—	2,105	6,304	7,149	10,313
<b>Canary Islands—</b>						
Motor spirit .. ..	344,043	394,615	506,807	570,501	552,320	702,401
Kerosine .. ..	134,388	103,418	120,767	135,744	182,680	208,777
Jet fuel .. ..	31,925	55,634	44,406	58,792	3,873	15,055
Gas oil .. ..	364,141	427,514	643,736	864,053	339,586	860,002
Diesel oil .. ..	223,121	207,331	236,325	214,624	269,026	198,264
Fuel oil .. ..	1,389,987	1,430,090	1,961,388	2,453,337	2,722,368	3,439,980
Lubricating oil .. ..	20,618	25,568	28,426	29,635	36,642	53,430
Asphalt .. ..	109,737	143,481	154,764	150,338	227,020	219,701
<b>Egypt—</b>						
Motor spirit .. ..	301,000	380,379	543,791	702,025	744,814	841,565
Kerosine .. ..	364,000	447,715	535,745	796,996	968,134	839,673
Jet fuel .. ..	27,000	26,496	47,117	29,215	11,629	33,969
Gas and diesel oil .. ..	579,000	706,458	880,753	1,021,560	1,180,372	1,212,881
Fuel oil .. ..	2,694,000	2,609,091	2,778,036	3,335,614	4,170,900	4,616,590
Asphalt .. ..	110,000	121,804	150,390	140,740	148,394	132,299
<b>Morocco—</b>						
Motor spirit .. ..	73,700	67,900	75,400	251,200	165,000	n.a.
Kerosine .. ..	10,000	15,500	26,000	76,600	62,000	n.a.
Gas and fuel oils .. ..	78,600	109,600	200,700	559,600	639,000	n.a.
<b>Mozambique—</b>						
Motor spirit .. ..	—	82,933	90,337	92,814	100,022	102,789
Gas oil .. ..	—	98,372	110,448	114,890	131,706	145,903
Fuel oil .. ..	—	211,866	211,025	227,016	242,372	237,870
<b>South Africa—</b>						
Motor spirit .. ..	487,000	543,000	591,000	592,000	1,416,000	n.a.
Kerosine .. ..	143,000	130,000	142,000	184,000	158,000	n.a.
Jet fuel .. ..	22,000	30,000	31,000	—	74,000	n.a.
Gas and diesel oil .. ..	334,000	388,000	422,000	533,000	1,209,000	n.a.
Fuel oil .. ..	270,000	323,000	343,000	840,000	1,899,000	n.a.
<b>Cuba—</b>						
Motor spirit .. ..	575,406	n.a.	n.a.	n.a.	n.a.	n.a.
Kerosine .. ..	142,056	n.a.	n.a.	n.a.	n.a.	n.a.
Gas oil and diesel oil .. ..	488,139	n.a.	n.a.	n.a.	n.a.	n.a.
Fuel oil .. ..	1,456,692	n.a.	n.a.	n.a.	n.a.	n.a.
Lubricating oil .. ..	13,145	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Guatemala—</b>						
Motor spirit .. ..	—	—	—	n.a.	n.a.	102,421
Kerosine .. ..	—	—	—	n.a.	n.a.	26,689
Aviation turbine fuel .. ..	—	—	—	n.a.	n.a.	2,124
Diesel oil .. ..	—	—	—	n.a.	n.a.	96,868
Fuel oil .. ..	—	—	—	n.a.	n.a.	149,739
<b>Mexico—</b>						
Aviation spirit .. ..	45,850	76,346	71,057	71,935	76,800	87,834
Motor spirit .. ..	2,927,226	3,249,296	3,141,662	3,191,105	3,202,000	3,256,798
Kerosine .. ..	1,258,026	1,396,092	1,424,619	1,464,242	1,545,000	1,533,429

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

Long tons

Producing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Mexico <i>(cont.)</i> —						
Gas and diesel oil ..	1,995,777	2,335,114	2,821,797	3,131,505	3,909,000	4,116,314
Fuel oil ..	6,130,273	6,911,873	6,584,388	6,194,844	5,822,000	6,102,767
Lubricating oil ..	147,707	156,333	153,978	164,925	172,000	190,893
Grease ..	3,760	4,807	6,276	6,400	7,000	6,963
Paraffin wax ..	39,970	40,926	38,610	41,547	46,000	45,767
Asphalt ..	302,000	283,000	328,000	319,000	369,000	504,000
Netherlands Antilles <i>(b)</i> —						
Aviation spirit ..	1,413,993	1,455,000	1,601,000	1,563,000	1,558,000	1,504,000
Motor spirit ..	2,568,964	2,524,000	2,424,000	2,508,000	2,825,000	3,031,000
White spirit ..	67,398	57,000	61,000	56,000	74,000	72,000
Kerosine ..	1,326,787	1,060,000	830,000	859,000	724,000	642,000
Aviation turbine fuel ..	1,660,951	2,155,000	2,264,000	<i>n.a.</i>	2,882,000	3,008,000
Gas oil ..	3,186,203	3,665,000	4,378,000	4,705,000	3,488,000	2,836,000
Diesel oil ..	1,470,405	1,296,000	1,302,000	1,465,000	1,678,000	1,245,000
Fuel oil ..	20,162,668	20,792,000	21,802,000	21,357,000	21,858,000	21,860,000
Lubricating oil ..	723,507	655,000	814,000	599,000	809,000	939,000
Asphalt ..	840,671	894,000	835,000	808,000	898,000	865,000
Nicaragua—						
Motor spirit ..	—	—	—	<i>(a)</i> 41,000	79,000	<i>n.a.</i>
Kerosine ..	—	—	—	<i>(a)</i> 15,000	21,000	<i>n.a.</i>
Gas and diesel oil ..	—	—	—	<i>(a)</i> 28,000	55,000	<i>n.a.</i>
Fuel oil ..	—	—	—	<i>(a)</i> 58,000	67,000	<i>n.a.</i>
Panama—						
Motor spirit ..	—	—	<i>(a)</i> 135,000	257,000	235,000	<i>n.a.</i>
Kerosine ..	—	—	<i>(a)</i> 79,000	67,000	75,000	<i>n.a.</i>
Jet fuel ..	—	—	<i>(a)</i> 5,000	25,000	48,000	<i>n.a.</i>
Gas and diesel oil ..	—	—	<i>(a)</i> 187,000	597,000	614,000	<i>n.a.</i>
Fuel oil ..	—	—	<i>(a)</i> 451,000	929,000	976,000	<i>n.a.</i>
Salvador—						
Motor spirit ..	—	—	—	86,121	117,441	<i>n.a.</i>
Kerosine ..	—	—	—	33,550	46,556	<i>n.a.</i>
Diesel oil ..	—	—	—	202,662	119,117	<i>n.a.</i>
Lubricating oil ..	—	—	—	<i>n.a.</i>	169,662	<i>n.a.</i>
United States—						
Aviation spirit ..	12,692,000	13,152,000	13,586,000	13,800,000	14,203,000	} 204,000,000
Motor spirit ..	161,605,000	162,503,000	167,668,000	172,246,000	178,973,000	
Kerosine <i>(c)</i> ..	17,416,000	18,161,000	20,030,000	21,120,000	21,575,000	} 36,352,000
Jet fuels (military) ..	11,232,000	12,118,000	13,016,000	12,646,000	13,745,000	
Distillate fuel oil ..	90,731,000	94,521,000	97,705,000	103,808,000	100,738,000	} 103,858,000
Residual fuel oil ..	48,438,000	46,022,000	43,120,000	40,237,000	38,912,000	
Lubricating oil ..	8,314,000	8,296,000	8,605,000	8,832,000	8,914,000	8,810,000
Paraffin wax ..	737,000	723,000	669,000	641,000	669,000	682,000
Coke ..	10,716,000	13,452,000	14,058,000	14,409,000	15,058,000	15,364,000
Asphalt ..	16,018,000	16,529,000	17,778,000	18,173,000	18,649,000	20,066,000
Road oil ..	950,000	926,000	1,126,000	1,081,000	1,014,000	1,044,000
Argentina—						
Aviation spirit ..	51,200	47,000	44,800	35,100	42,700	21,200
Motor spirit ..	1,903,200	2,164,400	2,672,600	2,532,200	2,730,900	3,092,900
Kerosine ..	1,029,000	1,017,200	1,183,600	972,200	1,140,000	982,690
Gas oil ..	642,300	739,500	1,053,200	1,424,400	1,382,900	1,940,600
Diesel oil ..	950,600	929,800	971,700	1,184,000	1,048,800	1,082,900
Fuel oil ..	6,044,000	6,565,400	6,774,600	6,288,500	6,829,700	7,691,700
Lubricating oil ..	133,600	137,500	129,300	108,100	126,400	141,500
Bolivia—						
Motor spirit ..	103,556	105,494	117,799	115,719	129,095	135,476
Kerosine ..	50,886	50,774	54,775	54,736	59,409	65,145
Diesel oil ..	47,032	48,655	59,997	57,005	61,213	72,083
Fuel oil ..	78,959	73,331	92,193	106,352	115,127	119,324

(a) United States Bureau of Mines' estimate.

(b) Exports.

(c) Including commercial jet fuel.

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

Long tons

Producing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
<b>Brazil—</b>						
Motor spirit .. ..	2,453,000	2,718,000	3,532,000	3,764,000	4,068,000	4,200,000
Kerosine .. ..	513,000	502,000	555,000	516,000	577,000	524,000
Diesel oil .. ..	1,355,000	2,061,000	2,683,000	3,052,000	3,112,000	3,008,000
Fuel oil .. ..	3,438,000	4,214,000	5,653,000	5,993,000	5,726,000	5,096,000
Lubricating oil .. ..	2,473	1,175	1,788	6,934	400	5,000
Paraffin wax .. ..	—	—	16,189	10,410	600	6,000
Asphalt .. ..	199,443	202,132	227,216	253,941	205,000	289,000
<b>Chile—</b>						
Aviation spirit .. ..	26,460	35,390	48,950	40,930	45,660	<i>n.a.</i>
Motor spirit .. ..	509,950	537,000	676,800	651,850	695,820	<i>n.a.</i>
Kerosine .. ..	139,900	150,530	203,910	233,660	242,920	<i>n.a.</i>
Diesel oil .. ..	252,970	275,230	340,420	r 361,450	418,410	<i>n.a.</i>
Fuel oil .. ..	294,370	375,670	583,030	r 562,170	591,390	<i>n.a.</i>
<b>Colombia—</b>						
Aviation spirit .. ..	57,812	59,668	66,803	62,861	60,016	87,293
Motor spirit .. ..	1,029,681	1,166,584	1,181,487	1,190,552	1,259,000	1,375,405
Other spirit .. ..	14,900	56,200	65,100	58,400	63,600	<i>n.a.</i>
Kerosine .. ..	206,374	203,163	236,223	230,285	228,000	246,918
Jet fuel .. ..	5,553	15,448	22,152	19,539	24,862	<i>n.a.</i>
Gas oil .. ..	12,990	1,229	—	7,431	<i>n.a.</i>	<i>n.a.</i>
Diesel oil .. ..	467,674	513,758	556,314	549,533	564,000	605,562
Fuel oil .. ..	1,394,089	1,296,779	1,528,069	1,340,586	1,274,819	1,462,791
Lubricating oil and grease .. ..	13,603	17,048	19,443	20,107	52,722	58,529
Coke .. ..	96,885	96,345	91,835	93,549	96,487	<i>n.a.</i>
Asphalt .. ..	53,388	49,895	67,528	53,757	69,000	66,194
<b>Ecuador—</b>						
Motor spirit .. ..	172,310	139,870	110,160	134,430	233,739	247,521
Kerosine .. ..	38,218	40,444	40,822	45,743	53,841	57,239
Aviation turbine fuel .. ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	6,937	23,041
Diesel oil .. ..	94,417	102,240	95,374	111,100	117,493	131,672
Residual fuel oil .. ..	180,520	224,950	177,550	169,870	189,018	215,846
<b>Peru—</b>						
Aviation spirit .. ..	11,000	6,000	7,000	5,000	5,000	<i>n.a.</i>
Motor spirit .. ..	557,000	572,900	616,000	625,000	659,000	<i>n.a.</i>
Kerosine .. ..	464,000	389,500	381,800	380,000	398,000	<i>n.a.</i>
Aviation turbine fuel .. ..	32,000	41,900	62,700	62,000	92,000	<i>n.a.</i>
Diesel oil .. ..	692,000	748,900	818,800	792,000	808,000	<i>n.a.</i>
Fuel oil .. ..	358,000	351,500	404,000	661,000	735,000	<i>n.a.</i>
Lubricating oil and grease .. ..	7,000	12,000	11,000	8,000	11,000	<i>n.a.</i>
<b>Uruguay—</b>						
Motor spirit .. ..	238,439	234,647	284,842	251,538	257,373	255,675
Kerosine .. ..	183,422	172,269	167,212	165,549	175,300	161,996
Aviation turbine fuel .. ..	6,617	9,581	17,181	14,322	15,585	14,006
Gas oil .. ..	158,667	175,670	188,567	190,840	239,142	230,589
Diesel oil .. ..	41,261	37,891	47,988	66,041	62,390	63,527
Fuel oil .. ..	607,495	635,635	660,166	601,394	625,405	720,875
Lubricating oil .. ..	1,643	875	313	473	766	355
Asphalt .. ..	10,700	12,800	18,900	14,900	12,800	13,200
<b>Venezuela—</b>						
Motor spirit .. ..	4,453,686	4,882,540	5,570,306	5,824,489	5,469,000	5,998,000
Kerosine .. ..	1,193,124	1,379,521	1,294,876	1,125,419	1,490,000	1,218,000
Gas and diesel oils .. ..	7,739,831	8,632,145	10,187,728	10,792,154	10,534,000	9,982,000
Fuel oil .. ..	27,318,514	27,433,708	30,934,189	31,267,995	34,092,000	37,444,000
Lubricating oil .. ..	206,100	515,916	567,210	618,310	649,600	690,000
Asphalt .. ..	1,007,000	1,041,000	1,070,000	839,000	865,000	877,000

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

Long tons

Producing Country and Description	1960	1961	1962	1963	1964	1965	
<b>OTHER COUNTRIES</b>							
<i>(cont.)</i>							
<b>Burma—</b>							
Motor spirit .. ..	148,680	143,910	148,194	142,090	139,450	<i>n.a.</i>	
Kerosine .. ..	104,700	88,629	89,229	108,720	117,330	<i>n.a.</i>	
Jet fuel .. ..	14,224	<i>n.a.</i>	21,842	25,000	<i>n.a.</i>	<i>n.a.</i>	
Diesel oil .. ..	106,860	125,680	167,940	171,130	181,380	<i>n.a.</i>	
Fuel oil .. ..	65,326	71,437	48,521	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	
Paraffin wax .. ..	13,021	13,349	17,143	18,631	13,824	<i>n.a.</i>	
Coke .. ..	<i>n.a.</i>	<i>n.a.</i>	12,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	
<b>Formosa—</b>							
Aviation spirit .. ..	} 215,000	226,000	229,000	237,000	249,000	257,000	
Motor spirit .. ..							
Kerosine .. ..		29,000	28,400	31,000	31,500	31,300	24,100
Jet fuel .. ..		134,700	144,500	(b) 168,000	(b) 145,000	177,000	<i>n.a.</i>
Diesel oil .. ..		177,700	175,200	219,900	185,800	234,200	295,900
Fuel oil .. ..		377,700	424,900	521,300	561,300	573,700	852,900
Asphalt .. ..		46,831	60,722	67,232	51,202	39,852	52,716
<b>Indonesia—</b>							
Aviation spirit .. ..	145,062	117,460	83,000	67,000	<i>n.a.</i>	<i>n.a.</i>	
Motor spirit .. ..	2,106,696	1,982,879	1,805,000	r 1,707,000	<i>n.a.</i>	<i>n.a.</i>	
Kerosine .. ..	1,656,183	1,704,781	1,742,000	1,828,000	<i>n.a.</i>	<i>n.a.</i>	
Fuel, gas, diesel and lubricating oils .. ..	6,828,896	7,002,858	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	
Paraffin wax .. ..	102,462	89,985	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	
Asphalt .. ..	31,002	43,895	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	
Other products .. ..	659,843	758,775	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	
<b>Iran (a)—</b>							
Aviation spirit .. ..	545,000	473,000	566,000	554,000	563,000	710,000	
Motor spirit .. ..	2,357,000	1,717,000	2,100,000	2,038,000	1,904,000	1,882,000	
Kerosine .. ..	2,142,000	1,913,000	2,127,000	1,925,000	2,217,000	1,823,000	
Aviation turbine fuel .. ..	514,000	522,000	712,000	896,000	925,000	1,197,000	
Gas and diesel oils .. ..	2,736,000	2,538,000	3,005,000	2,898,000	2,741,000	2,866,000	
Fuel oil .. ..	7,290,000	6,640,000	7,541,000	7,895,000	8,189,000	8,377,000	
Lubricating oil .. ..	18,000	19,000	19,000	25,000	35,000	44,000	
Bitumen .. ..	253,000	284,000	223,000	169,000	193,000	174,000	
<b>Iraq—</b>							
Motor spirit .. ..	244,990	(b) 309,000	264,756	257,996	278,298	<i>n.a.</i>	
Kerosine .. ..	313,529	(b) 363,000	371,524	382,116	459,133	<i>n.a.</i>	
Aviation turbine fuel .. ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	27,015	43,614	<i>n.a.</i>	
Gas oil .. ..	196,926	} b 361,000	214,303	228,960	310,342	<i>n.a.</i>	
Diesel oil .. ..	191,492		187,117	181,120	218,842	<i>n.a.</i>	
Fuel oil .. ..	847,363		(b) 949,000	1,032,469	1,004,215	1,142,536	<i>n.a.</i>
<b>Israel—</b>							
Motor spirit .. ..	203,946	192,805	272,105	310,000	347,000	(b) 379,000	
Kerosine .. ..	175,084	203,069	232,769	239,000	308,000	<i>n.a.</i>	
Gas and diesel oils .. ..	374,011	426,747	548,444	717,000	791,000	(b)1,310,000	
Fuel oil .. ..	531,535	660,887	890,849	1,091,000	1,241,000	(b)1,376,000	
<b>Japan—</b>							
Aviation spirit .. ..	51,701	50,109	57,675	62,022	68,141	} 7,870,000	
Motor spirit .. ..	4,360,091	5,182,037	5,715,077	r 6,628,860	7,096,906		
Kerosine .. ..	1,693,398	1,857,440	r 2,364,045	r 3,151,229	3,571,549		
Jet fuel .. ..	288,302	383,491	432,075	546,788	806,754		
Gas oil .. ..	1,980,296	2,451,956	2,995,404	r 3,815,205	4,563,959		
Diesel oil .. ..	1,064,677	1,394,390	r 1,473,107	r 1,629,237	2,116,674		
Fuel oil .. ..	14,191,849	17,383,070	r 20,356,971	r 27,336,602	32,887,532		
Lubricating oil .. ..	564,978	647,932	r 527,216	r 525,372	625,991	<i>n.a.</i>	
Paraffin wax .. ..	45,074	44,959	r 48,327	r 51,790	63,556	68,000	
Asphalt .. ..	461,803	596,016	r 613,095	r 654,916	920,744	<i>n.a.</i>	
<b>Jordan—</b>							
Motor spirit .. ..	40,923	34,000	41,075	45,450	52,259	<i>n.a.</i>	
Kerosine .. ..	43,197	38,000	51,386	53,833	64,915	<i>n.a.</i>	
Gas oil .. ..	41,898	40,000	111,207	114,836	106,488	<i>n.a.</i>	
Fuel oil .. ..	65,607	51,000	40,542	47,712	75,147	<i>n.a.</i>	
Asphalt .. ..	8,607	12,000	18,677	27,049	26,474	<i>n.a.</i>	

(a) Abadan Refinery only.

(b) Estimated.



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

Long tons

Producing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
<b>Korea (South)—</b>						
Motor spirit .. ..	—	—	—	—	66,810	161,931
Kerosine .. ..	—	—	—	—	40,133	65,365
Diesel oil .. ..	—	—	—	—	157,170	420,173
Fuel oil .. ..	—	—	—	—	396,563	675,491
<b>Kuwait—</b>						
Motor spirit .. ..	139,000	95,000	162,000	180,000	186,000	193,000
Kerosine .. ..	39,000	51,000	56,000	64,000	67,000	69,000
Gas and diesel oils .. ..	1,968,000	1,725,000	2,084,000	2,402,000	2,623,000	2,561,000
Fuel oil .. ..	5,127,000	5,102,000	5,548,000	5,754,000	6,181,000	6,252,000
Bitumen .. ..	33,000	35,000	22,000	28,000	19,000	13,000
<b>Lebanon—</b>						
Motor spirit .. ..	108,280	99,514	121,433	159,000	221,054	280,000
Kerosine .. ..	71,798	63,451	100,813	121,900	119,920	126,500
Gas oil .. ..	155,903	175,438	161,053	173,500	216,146	230,000
Fuel oil .. ..	337,426	331,674	408,543	518,150	617,714	755,000
<b>Philippine Republic—</b>						
Motor spirit .. ..	411,000	718,800	841,700	965,500	1,050,000	1,087,000
Kerosine .. ..	85,000	237,000	294,800	273,000	292,900	279,100
Jet fuel .. ..		10,000		73,600	94,600	133,000
Gas and diesel oil .. ..	257,000	554,000	671,600	854,500	968,000	976,000
Fuel oil .. ..	422,000	710,600	940,500	1,118,000	1,401,000	1,617,700
<b>Saudi Arabia—</b>						
Aviation spirit .. ..	31,815	47,277	34,862	37,657	40,853	27,099
Motor spirit .. ..	1,122,306	1,038,129	955,557	1,219,834	1,519,692	1,956,815
Kerosine .. ..	757,097	742,985	480,420	487,585	415,685	278,760
Jet fuel .. ..	324,720	427,802	563,282	595,458	748,920	1,062,143
Diesel oil .. ..	1,454,250	1,786,261	1,683,032	2,071,339	1,898,714	1,741,322
Fuel oil .. ..	6,655,609	7,277,150	7,611,459	7,809,318	8,270,362	9,305,802
Asphalt, etc. .. ..	35,935	57,839	57,112	46,330	59,811	44,663
<b>Syria—</b>						
Motor spirit .. ..	105,000	(a) 118,000	(a) 130,000	123,000	(a) 140,000	n.a.
Kerosine .. ..	95,000	(a) 108,000	(a) 93,000	104,000	(a) 118,000	n.a.
Gas and diesel oil .. ..	177,000	(a) 199,000	(a) 199,000	255,000	(a) 290,000	n.a.
Fuel oil .. ..	306,000	(a) 314,000	(a) 284,000	324,000	(a) 369,000	n.a.
<b>Turkey—</b>						
Motor spirit .. ..	70,830	76,060	514,611	532,578	626,000	687,000
Kerosine .. ..	8,200	10,700	277,484	389,357	469,000	417,000
Diesel oil .. ..	24,190	37,660	605,993	865,845	1,073,000	1,086,000
Fuel oil .. ..	179,600	184,300	1,097,364	1,406,693	1,640,000	1,670,000
Asphalt .. ..	37,128	56,265	88,683	117,509	99,000	131,000

(a) United States Bureau of Mines' estimate.

## EXPORTS OF PETROLEUM AND ALLIED PRODUCTS\*

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
<b>United Kingdom—</b>						
Crude petroleum (f) ..	48,629	110,166	994,829	1,420,842	338,542	268,000
Aviation spirit						
(bunkers) (a) ..	99,415	79,915	40,029	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Aviation spirit ..	280,361	213,568	259,208	180,071	116,719	134,957
Aviation turbine fuel (d)	487,239	296,281	338,910	347,064	380,122	455,554
Motor spirit ..	977,179	968,353	1,096,401	877,657	774,103	979,000
Other spirit ..	37,165	44,150	50,799	167,783	157,662	114,000
Kerosine (e) ..	635,411	797,842	815,140	697,914	560,870	655,000
Gas oil ..	2,276,444	2,050,963	2,684,097	2,956,580	2,964,586	3,333,000
Diesel oil ..	409,384	295,129	393,370	396,167	285,984	480,000
Fuel oil ..	3,184,389	2,361,820	3,251,910	3,169,343	3,155,000	3,870,000
do. (bunkers) (a) ..	4,242,121	4,281,575	3,227,644	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Lubricating oil ..	483,081	484,233	574,952	513,133	519,037	479,000
Greases (c) ..	31,418	32,398	32,834	33,846	34,966	33,000
Other heavy oils ..	8,598	10,674	11,383	81,688	190	7,000
Petroleum jelly ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	435	530	635
Petroleum waxes ..	6,411	6,094	6,643	8,348	6,077	4,561
<b>Malta (bunkers) (b)—</b>						
Aviation spirit ..	13,213	11,872	11,936	12,030	5,003	8,719
Aviation turbine fuel ..	35,109	33,202	31,282	38,265	1,793	40,736
Gas oil ..	2,150	2,449	6,000	6,580	12,048	8,209
Diesel oil ..	—	—	—	—	—	5,215
Fuel oil ..	407	224	3,669	2,081	10,507	8,876
<b>Ghana—</b>						
Gas oil (bunkers) ..	—	—	—	151	13,198	7,425
do. do. (b) ..	6,119	6,731	9,323	1,311	2,780	16
Diesel oil (bunkers) (b) ..	2	2,056	2,805	282	23,673	435
Fuel oil ..	—	—	—	17,299	196,634	183,536
do. (bunkers) (b) ..	8,839	5,793	6,654	793	3,201	550
Lubricating oil (bunkers) (b) ..	59	47	113	16	282	209
<b>Kenya (bunkers) ..</b>						
Aviation spirit (b) ..	13,955	19,264	3,658	4,605	2,964	2,287
Motor spirit ..	(b) 1	(b) 35	(b) 816	(b) 6	(b) 2	(a) 1
Aviation turbine fuel ..	—	—	(b) 41,710	(b) 41,008	(b) 41,649	81,271
Gas, diesel and fuel oils	(b) 103,557	(b) 143,820	(b) 135,371	(b) 124,472	(b) 44,183	(a) 135,768
Lubricating oil (b) ..	458	577	522	490	375	468
<b>Mauritius (bunkers) (b)—</b>						
Aviation spirit ..	1,793	2,165	1,977	1,615	<i>n.a.</i>	2,243
Aviation turbine fuel ..	—	492	718	1,427	<i>n.a.</i>	2,627
Fuel oils ..	9,425	12,556	14,141	8,224	<i>n.a.</i>	20,331
<b>Nigeria—</b>						
Crude petroleum ..	827,702	2,224,140	3,367,504	3,694,981	5,782,608	13,019,779
Diesel oil (bunkers) (b)	2,478	1,026	3,220	294	132	1,550
Gas oil do. (b)	1,930	2,589	3,689	9,503	13,865	16,065
Fuel oil do. (b)	4,666	2,504	2,784			
<b>Sierra Leone (bunkers) (b)—</b>						
Aviation spirit ..	201	166	472	411	<i>n.a.</i>	<i>n.a.</i>
Aviation turbine fuel ..	—	176	534	2,036	<i>n.a.</i>	<i>n.a.</i>
Fuel and diesel oils ..	275,709	304,681	274,974	228,619	<i>n.a.</i>	<i>n.a.</i>

\*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 246).

(a) Including foreign produce.

(d) Wide cut gasoline.

(b) Foreign produce. See imports.

(e) Including kerosine jet type fuel.

(c) Including cable impregnating compounds.

(f) Including partly refined.

## EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES (cont.)</b>						
<b>Tanzania (bunkers)</b>						
<i>(a)</i> —						
Aviation spirit .. ..	818	272	3,310	2,007	2,322	1,590
Aviation turbine fuel ..	—	—	2,954	6,615	5,911	—
Gas, diesel and fuel oils	224	1,245	835	3,873	512	2,224
<b>Uganda (bunkers) (a)</b> —						
Aviation spirit .. ..	2,891	3,585	3,534	2,676	2,466	1,123
Aviation turbine fuel ..	—	—	8,431	8,211	11,300	—
<b>Canada—</b>						
Crude petroleum .. ..	5,631,325	8,696,335	12,210,695	12,116,775	13,501,180	14,401,380
Motor spirit .. ..	156,109	65,426	110,676	55,178	119,423	29,217
Kerosine, etc. .. ..	2,209	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Fuel oil .. ..	105,704	152,390	285,768	310,417	337,289	297,737
do. (bunkers) .. ..	1,316,435	1,403,484	1,489,833	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Diesel oil (bunkers) ..	433,036	426,577	454,043	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Lubricating oil .. ..	852	(c) 280	(c) 4,635	(c) 9,138	(c) 4,546	(c) 4,801
Other oils .. ..	391	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Mineral wax .. ..	248	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Petroleum coke .. ..	32,528	(e) 46,793	(e) 28,445	(e) 16,086	(e) 18,951	(e) 15,269
Natural gas ( <i>million cu.ft.</i> )	91,045	168,180	319,566	340,953	404,143	403,908
<b>Barbados (bunkers)—</b>						
Aviation spirit (a) .. ..	2,341	1,843	1,119	1,376	1,443	2,005
Aviation turbine fuel (a)	2,309	4,062	5,333	8,077	7,635	9,566
Gas, diesel and fuel oils	367	563	366	427	118	559
Do. do. (a) .. ..	594	521	64,057	258,000	98,881	131,201
<b>Bermuda (bunkers) (a)(b)</b> —						
Aviation spirit .. ..	78,009	79,655	66,028	44,106	28,443	24,868
Motor spirit .. ..	3,478	3,629	3,872	3,676	2,426	2,350
Aviation turbine fuel ..	40,225	63,567	67,350	55,369	68,021	60,340
Kerosine .. ..	809	462	474	419	377	330
Fuel oil .. ..	26,784	19,818	34,237	39,278	33,541	25,980
Diesel oil .. ..						
Lubricating oil .. ..	269	92	36	48	36	29
<b>Jamaica (bunkers) (f)</b> —						
Aviation spirit .. ..	25,446	9,444	12,987	7,703	6,927	<i>n.a.</i>
Gas oil .. ..	10,640	7,871	4,736	8,269	7,473	<i>n.a.</i>
Diesel oil .. ..	64,054	53,006	32,352	22,437	21,362	<i>n.a.</i>
Fuel oil .. ..	145,991	155,072	88,780	2,309	107,095	<i>n.a.</i>
<b>Trinidad and Tobago—</b>						
Crude petroleum .. ..	686,192	728,029	870,541	932,488	1,337,201	1,574,000
Aviation spirit (d) .. ..	912,822	1,360,395	1,426,354	1,310,917	1,665,943	2,752,000
do. (bunkers) .. ..	12,404	8,229	4,838	9,288	37,296	
Motor spirit .. ..	1,130,783	1,233,518	1,063,230	1,207,007	1,045,756	28
do. (bunkers) .. ..	25	8,505	39	2,987	28	
Kerosine .. ..	263,185	320,118	217,706	121,896	155,345	149
do. (bunkers) .. ..	13,414	20,569	32,180	28,910	149	
Gas oil .. ..	1,258,868	1,379,996	1,058,377	1,198,057	1,525,121	37,615
do. (bunkers) .. ..	37,717	49,260	117,260	57,456	37,615	
Diesel oil .. ..	176,124	356,034	874,695	1,367,307	1,123,673	187,445
do. (bunkers) .. ..	310,011	364,342	356,270	186,619	187,445	
Fuel oil .. ..	4,750,917	6,613,960	7,346,859	9,684,461	10,897,259	1,627,337
do. (bunkers) .. ..	1,537,568	1,803,873	1,762,723	1,376,901	1,627,337	
Lubricating oil .. ..	151	—	24	64	51,128	<i>n.a.</i>
Road oil .. ..	13,167	12,809	9,640	6,430	8,428	<i>n.a.</i>
<b>Asphalt—</b>						
Dried .. ..	52,748	57,980	65,344	67,728	79,080	60,187
Asphalt cement .. ..	5,873	7,749	4,261	3,180	4,100	2,800
Bituminous asphalt ..	32,547	30,182	49,575	36,109	26,170	<i>n.a.</i>

(a) Foreign produce. See imports.

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

(b) Including bunkers for military forces.

(e) Including pitch coke.

(c) Including grease.

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

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (*cont.*)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
<i>(cont.)</i>						
British Guiana (a)—						
Aviation spirit (bunkers)	700	1,680	13,515	<i>n.a.</i>	926	149
Falkland Islands—						
(bunkers) (a)—						
Fuel oil .. .. .	38,453	17,758	16,996	—	5,605	2,581
Abu Dhabi (c)—						
Crude petroleum .. .	—	—	—	70,415	5,919,230	8,928,097
Aden (f)—						
Aviation and motor						
spirits .. .. .	568,702	789,634	812,251	793,513	946,288	1,046,853
Kerosine .. .. .	320,716	497,969	559,129	601,913	684,838	620,220
Gas, diesel, fuel oils ..	1,278,113	1,779,578	1,931,273	2,451,748	2,475,113	2,522,760
Fuel oil (bunkers) .. .	3,557,991	3,509,121	3,405,878	3,786,449	3,875,597	<i>n.a.</i>
Bahrain Islands (c)—						
Aviation spirit .. .	} 1,608,000	1,549,000	1,836,000	1,900,000	1,793,000	1,245,000
Motor spirit .. .						
Aviation turbine fuel .. .	289,000	451,000	526,000	474,000	596,000	848,000
Kerosine .. .. .	811,000	687,000	716,000	640,000	557,000	502,000
Diesel oil .. .. .	2,058,000	2,383,000	2,562,000	2,469,000	2,014,000	1,587,000
do. (bunkers) .. .	95,000	85,000	76,000	(e)	(e)	(e)
Fuel oil .. .. .	3,739,000	3,877,000	4,390,000	4,152,000	3,126,000	3,125,000
do. (bunkers) .. .	656,000	733,000	751,000	876,000	1,014,000	961,000
Asphalt .. .. .	106,000	101,000	84,000	29,000	30,000	8,000
Brunei—						
Crude petroleum (b) .. .	4,505,041	4,379,000	3,757,077	3,424,099	3,463,277	3,868,849
Natural gas ( <i>million</i>						
<i>cubic feet</i> ) .. .	2,693	2,656	2,653	2,204	<i>n.a.</i>	<i>n.a.</i>
Ceylon (bunkers) (a)—						
Aviation spirit .. .	9,503	7,638	7,536	5,944	5,886	1,455
Gas oil .. .. .	4,127	3,878	3,484	6,614	3,679	2,860
Diesel oil .. .. .	49,341	52,854	49,305	24,035	29,045	24,408
Fuel oil .. .. .	397,339	330,513	247,529	161,690	210,985	230,679
Cyprus (bunkers) (a)—						
Aviation spirit .. .	2,296	1,196	1,143	1,506	1,737	2,189
India (d)—						
Motor spirit .. .. .	} 193,472	162,452	239,647	366,115	369,862	<i>n.a.</i>
Other spirit .. .. .						
Diesel oil .. .. .	6	24	—	—	—	<i>n.a.</i>
Fuel oil .. .. .	—	—	—	—	—	<i>n.a.</i>
Paraffin wax .. .. .	18,343	12,043	11,939	9,370	11,535	<i>n.a.</i>
Malaya—						
Crude petroleum .. .	227,060	769,470	1,295,231	1,242,659	28,000	79,106
Aviation spirit .. .	126,759	117,030	171,657	155,820	165,676	205,999
do. do. (bunkers) .. .	32,202	41,793	50,398	51,786	59,002	78,214
Motor spirit .. .. .	817,502	674,192	657,425	755,917	758,172	681,888
White spirit .. .. .	77,852	90,204	70,330	61,486	36,662	14,848
Aviation turbine fuel ..	122,424	225,372	278,400	259,250	2,260,666	565,422
Kerosine .. .. .	350,418	303,269	286,667	329,902	6,762	216,506
Gas oil .. .. .	369,745	436,156	558,511	656,397	166,723	576,169

 (a) Foreign produce. *See* imports.

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

(c) British Protected State.

(d) Years ended March 31 following that stated.

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

(f) Domestic and foreign produce.

## EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES (cont.)						
Malaya (cont.)						
Diesel oil .. ..	249,268	285,397	286,132	318,456	292,734	417,293
Fuel oil .. ..	189,280	590,576	878,862	888,719	1,733,951	2,660,662
Fuel and diesel oil (bunkers) .. ..	1,917,555	2,373,984	2,636,187	2,636,758	2,506,852	2,890,149
Lubricating oil .. ..	4,392	4,552	5,210	22,161	44,824	58,964
Petroleum jelly .. ..	46	138	28	25	68	35
Grease .. ..	159	278	276	214	192	547
Paraffin wax .. ..	101	124	2,316	85	34	10
Asphalt and bitumen .. ..	5,298	3,445	9,343	48,470	49,290	33,171
Qatar (e)—						
Crude petroleum .. ..	7,977,915	8,143,706	8,614,642	8,971,403	8,754,450	8,903,998
Sabah—						
(bunkers) (b)—						
Aviation spirit .. ..	663	591	921	6,238	11,027	4,526
Fuel oil .. ..	6,631	9,479	6,097	10,180	8,259	9,964
Sarawak—						
Crude petroleum (c) .. ..	2,475,388	1,879,638	1,871,940	1,516,472	1,736,481	1,898,056
Motor spirit (d) .. ..	337,023	262,459	287,222	258,618	376,058	256,287
Kerosine .. ..	—	—	—	13,852	137,516	135,875
Aviation turbine fuel .. ..	—	—	—	—	6,408	172,065
Gas oil .. ..	39,328	33,754	50,922	36,731	121,482	142,350
Diesel oil .. ..	1,121,445	951,764	1,090,062	1,095,426	358,459	91,491
Fuel oil .. ..	449,787	459,825	531,799	393,537	708,362	1,100,749
do. (bunkers) (f) .. ..	147,183	106,589	81,634	46,377	37,828	23,312
Australia (a)—						
Aviation spirit .. ..	8,748	10,319	8,031	1,983	1,344	736
do. do. (bunkers) .. ..	494	8,079	7,799	1,439	5,828	3,315
do. do. do. (b) .. ..	19,080	8,892	2,997	1,319	5,873	3,585
Motor spirit .. ..	50,803	81,971	138,370	126,490	141,515	52,813
Kerosine .. ..	50,997	73,667	13,965	20,810	3,650	8,773
Aviation turbine fuel .. ..	23,751	35,533	68,233	63,986	23,734	51,672
do. (bunkers) .. ..	13	4,371	6,680	5,125	32,881	72,183
do. do. (b) .. ..	3,248	10,834	1,965	792	2,400	11,802
Lubricating oil .. ..	1,101	5,872	4,467	14,813	50,610	52,227
Diesel and fuel oils .. ..	1,016,468	1,465,540	1,758,225	2,189,523	1,671,995	1,037,107
Fuel oil (bunkers)—						
Domestic produce .. ..	564,219	698,751	583,321	670,440	752,493	718,586
Foreign produce .. ..	10,537	6,652	8,410	5,448	8,845	4,614
Fiji (bunkers)(b)—						
Aviation spirit .. ..	6,324	5,398	5,381	2,353	2,085	1,669
Aviation turbine fuel .. ..	21,135	28,738	35,708	30,357	39,193	50,932
Diesel oil .. ..	8,313	11,660	12,429	13,415	9,574	9,378
Gas oil .. ..	331	382	2,129	1,521	1,460	3,008
Fuel oil .. ..	427	—	326	2,070	6,863	5,133
New Zealand (bunkers) (b)—						
Aviation spirit .. ..	3,649	5,063	n.a.	n.a.	n.a.	n.a.
Diesel oil .. ..	10,408	46,992	34,263	29,970	(a) 23,826	(a) 24,079
Fuel oil .. ..	4,100	55,065	43,362	24,110	(a) 40,911	(a) 135,612
Lubricating oil .. ..	1,287	1,547	1,632	1,660	(a) 1,848	n.a.
Irish Republic—						
Aviation spirit (b) (g) .. ..	3,721	2,845	2,900	3,248	3,801	3,859
do. (b) (h) .. ..	57,392	44,239	34,574	20,045	15,857	14,478
Motor spirit .. ..	5,933	4,048	7,100	6,709	6,527	9,862

(a) Years ended June 30 of that stated.

(b) Foreign produce. See imports.

(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) Bunkers for foreign ships and aircrafts only

(e) British Protected State.

(f) Including diesel oil bunkers.

(g) Exports to Shannon Free Airport

(h) Exports to Shannon Free Airport

## EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>Irish Republic (cont.)</b>						
Aviation turbine fuel (c)	—	—	—	3,545	—	—
do. (d) (b) ..	11,838	10,699	12,137	14,073	15,399	6,111
do. (d) (c) ..	34,628	72,207	72,866	73,274	91,631	97,077
Gas and diesel oils	156,433	135,726	133,990	142,944	144,111	211,183
do. (bunkers) (d) (b)	—	—	—	—	—	5,864
do. do. (b) ..	9,885	9,509	7,405	9,359	11,036	10,542
Fuel oil ..	317,694	241,682	111,485	38,264	21,204	62,378
do. (bunkers) (d) (b)	15,013	11,282	5,255	—	—	—
do. do. (b)	78,012	86,045	70,130	81,632	93,248	101,646
<b>OTHER COUNTRIES</b>						
<b>Albania—</b>						
Crude petroleum ..	r 324,100	r 285,900	r 268,300	305,400	n.a.	n.a.
Natural asphalt ..	r 28,000	r 27,700	r 11,200	11,200	n.a.	n.a.
Other asphalt ..	r 204,300	r 166,100	r 134,600	193,000	n.a.	n.a.
<b>Austria—</b>						
Crude petroleum ..	1	1	1	—	1	1
Motor spirit ..	20	4	37	52	59	21
Gas oil ..	132,531	82,753	191,625	202,674	128,922	123,974
Fuel oil ..	4,884	201	10	—	2	6
Lubricating oil, etc.	7,776	4,487	10,780	14,936	75,865	71,964
<b>Belgium-Luxemburg</b>						
<b>E.U.—</b>						
Crude petroleum ..	24	79	1,670	—	28	—
Motor spirit ..	478,521	369,321	426,213	832,347	613,902	848,683
Kerosine ..	218,489	161,043	177,712	206,528	396,171	434,780
Gas oil ..	842,658	782,454	794,451	1,207,982	1,303,896	1,295,950
do. (bunkers) (b) ..	64,829	80,180	83,470	85,465	109,033	208,020
Fuel oil, etc. ..	831,592	677,278	600,031	1,002,879	730,742	521,286
do. (bunkers) (b) ..	553,504	707,488	980,462	1,219,691	1,412,951	1,592,888
Lubricating oil ..	96,445	103,818	111,023	123,106	129,520	154,133
do. (bunkers) (b) ..	5,452	4,386	8,665	5,234	9,872	7,006
Other heavy oils ..	56	39	2,994	4	29,885	2,576
Petroleum jelly ..	1,392	1,581	1,665	1,311	804	354
Paraffin wax ..	37	76	65	80	93	67
Ozokerite and ceresin (a)	44	35	45	68	28	44
Petroleum coke ..	2,365	816	5,943	27,549	40,410	25,228
Natural asphalt ..	224	335	47	193	255	254
Pitch ..	163,704	196,472	223,005	287,945	234,859	194,920
<b>Denmark—</b>						
Aviation spirit ..	530	1,497	2,845	5,561	3,070	5,925
Motor spirit ..	18	1,411	138,147	80,335	171,466	259,965
White spirit ..	26	40	1,090	925	482	28
Kerosine ..	3	494	6,820	17,576	6,835	4,559
Gas oil ..	28	7,925	74,123	33,726	44,591	63,269
Diesel oil ..	—	328	11,463	8,313	65,087	146,981
Fuel oil ..	326	31,292	294,856	215,527	308,744	193,071
Gas oil (bunkers) ..	40,696	30,190	273,571	314,810	352,949	376,058
Diesel oil (bunkers) ..	90,096	78,919				
Fuel oil (bunkers) ..	104,965	89,062				
Lubricating oil ..	4,724	3,832	2,362	4,331	7,998	10,690
Grease ..	1,128	1,202	1,531	1,401	933	910
<b>France—</b>						
Crude petroleum ..	812	—	—	—	—	—
Aviation spirit ..	76,034	61,183	13,998	16,894	11,788	(e) 2
Motor spirit ..	1,566,194	1,688,088	1,398,105	1,356,938	1,752,649	(e) 1,575,749
White spirit ..	6,540	8,840	8,090	13,922	23,262	(e) 21,386

(a) Including montan wax.

(b) Bunkers for foreign ships or aircraft only.

(c) Exports to Shannon Free Airport.

(d) Foreign produce. See imports.

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

## EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
<b>France (cont.)—</b>						
Kerosine .. .. .	603,366	648,016	589,058	444,225	220,200	(b) 202,247
Gas oil .. .. .	1,701,704	2,118,805	2,366,527	2,268,847	2,514,422	(b) 3,373,771
do. (bunkers)—						
Domestic produce ..	(a) 27,845	2,694,757	2,203,474	2,585,524	3,025,240	(b) 3,129,967
Fuel oil .. .. .	1,954,598					
do. (bunkers)—						
Domestic produce ..	(a) 298,892	179,386	183,578	216,536	252,438	(b) 232,993
Lubricating oil ..	186,193					
do. (bunkers)—						
Domestic produce ..	(a) 3,434					
Petroleum jelly ..	90	124	230	1,735	1,876	(b) 1,996
Paraffin wax .. ..	9,952	8,860	9,647	8,168	10,391	(b) 7,975
Ozokerite, ceresin, etc.	1,162	798	763	592	639	(b) 28
Petroleum coke ..	6	2,301	1	2,963	n.a.	(b) 34
Natural asphalt and bitumen .. .. .	22,435	27,054	21,063	20,183	20,106	(b) 18,926
Mastic asphalt .. ..	6,805	5,344	3,421	2,956	3,160	(b) 1,949
Bitumen .. .. .	174,562	183,885	126,846	130,436	235,651	(b) 267,377
<b>Germany (Federal)—</b>						
Aviation spirit (bunkers) (a) ..	64,940	63,502	52,870	53,324	57,340	65,410
Motor spirit .. .. .	530,520	1,150,893	1,151,549	1,216,740	1,105,860	1,062,878
White spirit .. .. .	6,084	4,272	5,779	8,624	10,272	9,057
Kerosine .. .. .	2,844	8,093	4,921	30,352	16,477	4,515
Aviation turbine fuel ..	18,326	9,606	205,686	19,414	104,652	11,543
do. (bunkers) (a) ..	78,949	139,711	187,890	227,130	290,209	335,965
Gas and diesel oil ..	682,850	736,148	770,568	1,128,708	964,552	342,260
do. (bunkers) (a) ..	111,963	100,308	147,656	203,152	254,410	220,702
Fuel oil .. .. .	988,812	2,184,887	1,261,259	1,892,879	2,735,669	2,732,093
do. (bunkers) (a) ..	419,366	501,512	737,826	835,672	1,222,496	1,286,208
Lubricating oil ..	68,316	80,027	73,770	87,891	97,296	98,917
do. (bunkers) (a) ..	10,226	9,463	9,726	9,970	9,901	—
Petroleum jelly ..	5,173	5,266	7,189	9,031	10,648	13,340
Paraffin wax .. ..	22,760	22,037	29,846	31,840	34,925	417,829
Ozokerite, etc. ..	140	74	26	38	36	n.a.
Natural asphalt and bitumen .. .. .	190	568	567	504	2,055	1,627
Bitumen .. .. .	42,477	67,414	105,925	131,010	177,352	222,349
Petroleum coke ..	60,377	96,722	101,333	141,538	148,452	161,075
<b>Germany (East)—</b>						
Motor spirit .. .. .	256,051	364,455	381,854	412,176	418,138	465,532
Diesel oil .. .. .	370,770	370,316	364,062	426,783	435,901	665,578
<b>Hungary—</b>						
Motor spirit .. .. .	99,785	94,506	115,664	81,177	121,638	148,000
Kerosine .. .. .	163	10,070	140	236	208	n.a.
Gas oil .. .. .	159,828	171,707	193,045	159,466	164,198	153,000
Fuel oil .. .. .	219,695	212,287	259,240	227,028	258,571	175,000
Lubricating oil ..	13,091	13,222	13,401	13,319	13,546	13,523
Paraffin wax and ceresin	2,362	1,526	1,991	1,198	512	n.a.
Bitumen .. .. .	132,178	148,956	169,773	194,237	165,822	167,000
<b>Italy—</b>						
Crude petroleum ..	510,305	469,949	797,748	176,478	331	81
Aviation and motor spirits .. .. .	1,822,409	1,768,272	1,845,429	1,785,448	1,850,629	2,572,511
do. (bunkers) (a) ..	140,074	190,195	209,453	321,208	303,927	63,519
White spirit .. .. .	16,311	12,826	14,530	15,656	(c)	(c)

(a) Bunkers for foreign ships or aircraft only.

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

(c) Included with aviation and motor spirits.

## EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Italy <i>(cont.)</i> —						
Kerosine .. .. .	438,971	558,119	634,485	779,177	783,397	1,249,745
Lubricating oil .. .. .	40,730	29,850	48,880	54,090	80,107	142,055
Gas oil .. .. .	2,412,466	2,507,906	3,342,514	4,073,429	8,595,852	14,789,304
do. (bunkers) (a) .. .. .	234,389	255,647	298,857	232,473	3,005,934	1,836,740
Fuel oil .. .. .	1,869,799	2,528,374	2,488,599	2,576,418	(e)	(e)
do. (bunkers) (a) .. .. .	1,949,803	2,246,633	2,405,779	2,553,257	(f)	(f)
Paraffin wax .. .. .	678	868	1,017	1,346	1,865	749
Natural asphalt and bitumen .. .. .	9,322	9,038	8,346	9,007	6,859	6,858
Pitch .. .. .	114,094	116,882	121,123	140,220	132,350	113,820
Netherlands—						
Aviation spirit (bunkers) (a) .. .. .	1,499	1,537	1,807	3,542	3,443	9,743
Motor spirit .. .. .	2,407,071	2,548,248	2,818,378	2,780,236	2,940,537	3,132,500
Kerosine .. .. .	573,198	607,625	631,326	558,292	647,964	735,480
Gas oil .. .. .	2,779,299	2,577,081	2,659,159	2,264,160	2,085,516	2,893,940
do. (bunkers) (a) .. .. .	335,332	455,390	415,683	330,132	352,607	502,628
Fuel oil .. .. .	4,947,274	4,896,176	4,800,485	3,451,824	3,511,260	3,558,226
do. (bunkers) (a) .. .. .	1,038,676	1,424,970	1,688,191	2,042,368	2,778,157	2,753,230
Lubricating oil .. .. .	246,767	223,686	263,329	239,328	309,681	301,269
Petroleum jelly .. .. .	4,083	4,944	6,104	6,315	7,620	8,379
Paraffin wax .. .. .	16,018	17,272	9,128	10,854	13,890	13,429
Ozokerite and ceresin(d) .. .. .	810	218	195	304	221	58
Pitch .. .. .	132,274	225,607	230,106	364,785	377,831	341,067
Natural asphalt .. .. .	176	31	—	43	—	51
Petroleum coke .. .. .	43,297	36,495	54,335	54,713	56,681	57,443
Norway—						
Motor spirit .. .. .	910	72,225	146,112	r 123,873	227,004	143,655
Kerosine .. .. .	8	4,962	12,559	7,977	2,651	22
Fuel oil and solar oil .. .. .	386	546,812	1,017,629	r 1,077,229	1,183,648	1,063,147
Lubricating oil .. .. .	15,776	15,865	17,944	r 18,631	20,581	45,762
Poland—						
Kerosine .. .. .	11,500	7,400	n.a.	14,271	} 576,700	} 1,010,874
Fuel oils .. .. .	192,400	269,800	n.a.	545,841		
Lubricating oil .. .. .	3,490	3,235	n.a.	3,530		
Paraffin wax .. .. .	5,167	5,597	n.a.	2,974		
Asphalt .. .. .	2,370	1,306	n.a.	9,928		
Portugal (b)—						
Motor spirit .. .. .	89,984	75,994	46,733	47,141	57,204	42,885
Kerosine .. .. .	13,919	40,979	28,242	44,589	18,742	13
Fuel oil .. .. .	167,924	98,214	73,056	113,912	151,212	126,282
do. (bunkers) (a) .. .. .	5,718	4,394	1,818	3,428	26,734	57,569
Lubricating oil, etc. .. .. .	2,020	1,660	1,591	2,363	2,693	4,115
Bitumen .. .. .	61	79	5	20	204	7
Natural asphalt .. .. .	1,057	522	55	274	487	332
Roumania—						
Motor spirit(c) .. .. .	2,426,900	2,044,100	1,841,600	1,764,500	1,629,200	1,421,300
Kerosine .. .. .	665,000	607,100	592,000	412,600	332,400	275,700
Gas oil .. .. .	1,266,000	1,740,000	1,621,800	1,583,400	1,869,800	1,947,800
Fuel oil .. .. .	1,210,000	1,283,600	1,444,600	1,618,500	1,864,500	1,612,700
Lubricating oil .. .. .	208,100	242,400	201,700	270,500	298,300	289,200
Paraffin wax .. .. .	19,300	30,200	23,100	24,700	20,600	19,500
Petroleum coke .. .. .	13,500	26,100	27,900	54,300	55,400	50,700
Bitumen .. .. .	79,900	84,900	97,700	99,300	103,200	104,500
Spain—						
Motor spirit .. .. .	14,410	63,717	53,887	61,555	117	100
Diesel oil .. .. .	—	—	—	r 19,522	2,023	89,463
Fuel oil .. .. .	165,651	41,423	20,679	r —	—	39

(a) Bunkers for foreign ships or aircraft only.

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

(c) Including white spirit and special kerosine.

(d) Including montan wax.

(e) Included with gas oil.

(f) Included with gas oil (bunkers).



## EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Sweden—						
Motor spirit, etc. . . . .	8,252	2,663	12,740	87,017	172,440	127,591
White spirit . . . . .	818	510	1,194	9,372	505	5
Kerosine . . . . .	16,407	2,361				
Fuel oil and gas oil . . . . .	48,713	49,492	66,727	117,593	147,738	151,029
Lubricating oil and grease . . . . .	31,191	36,135	40,013	41,330	47,649	46,809
Paraffin wax . . . . .	29	27	14	11	3	39
Asphalt . . . . .	3	3	23	42	26	38
Pitch . . . . .	30,571	30,430	36,742	30,599	40,482	46,141
Switzerland—						
Motor spirit . . . . .	1	16	3	567	11,521	21,606
Fuel oil . . . . .	17	1	35	953	62,230	104,587
Lubricating oil and grease . . . . .	327	1,077	1,222	419	1,379	843
Petroleum coke . . . . .	4,802	3,713	8,733	15,570	17,568	9,430
Asphalt and bitumen . . . . .	2,498	2,124	2,002	1,810	3,533	2,634
U.S.S.R.—						
Crude petroleum . . . . .	17,543,400	23,018,900	25,864,400	29,765,300	36,111,200	42,746,000
Motor spirit . . . . .	2,773,500	3,532,700	3,104,800	3,289,400	2,703,800	2,315,600
Kerosine . . . . .	1,076,100	1,058,800	1,274,400	1,248,700	875,500	1,146,700
Diesel oil . . . . .	5,083,900	5,607,700	6,286,500	7,370,100	6,743,200	7,244,500
Fuel oil . . . . .	5,201,300	6,748,500	7,614,400	8,440,900	8,913,300	9,556,200
Lubricating oil and grease . . . . .	374,000	416,000	431,700	381,200	290,000	271,400
Paraffin wax . . . . .	23,900	23,300	30,000	28,700	32,900	27,500
Bitumen . . . . .	36,500	73,600	21,700	18,300	23,100	22,900
Yugoslavia—						
Crude petroleum . . . . .	—	175,692	551,867	447,903	310,843	142,442
Aviation spirit . . . . .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	654	17	1,261
Motor spirit . . . . .	30,509	16,084	25,239	9,771	21,026	22,120
White spirit . . . . .	34	167	189	247	379	143
Aviation turbine fuel . . . . .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,536	—	—
Gas oil . . . . .	3,555	3,974	151,928	3,904	1,735	19,695
Fuel oil . . . . .	32,903	60,926	75,724	65,276	73,660	132,492
Lubricating oil . . . . .	6,614	10,160	24,931	46,016	44,757	29,825
Mastic asphalt . . . . .	197	394	12	—	—	—
Algeria—						
Crude petroleum . . . . .	—	—	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Motor spirit (d) . . . . .	30,972	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Fuel oil . . . . .	2	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Fuel oil and gas oil (d) . . . . .	454,788	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Lubricating oil . . . . .	3	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Angola—						
Crude petroleum . . . . .	1	—	113,135	312,697	355,348	122,378
Fuel oil . . . . .	45,188	71,690	85,451	168,262	196,979	203,199
Canary Islands—						
Motor spirit (a) . . . . .	199,054	176,533	318,511	189,775	246,218	292,170
Kerosine (a) . . . . .	59,018	53,976	61,422	68,377	122,899	108,042
Diesel (a) (c) . . . . .	99,796	114,486	147,944	166,484	154,187	196,898
do. (bunkers) (c) . . . . .	128,070	174,217	121,209	119,693	92,134	8,463
Fuel oil (a) (c) . . . . .	201,927	201,776	255,730	375,377	592,709	699,500
do. (bunkers) (c) . . . . .	256,055	288,411	345,175	342,856	319,201	33,577
Paraffin wax (a) . . . . .	225	327	—	—	—	339
Asphalt (a) . . . . .	25,413	33,122	52,144	46,962	37,304	33,735
Cape Verde Islands—						
Fuel oil (bunkers) (b) . . . . .	488,376	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

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

(b) Foreign produce. See imports.

(c) Including foreign produce.

(d) Bunkers of foreign produce.

## EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Ceuta (a)—						
Diesel oil .. .. .	12,425	6,096	441	28	—	—
do. (bunkers) .. ..	282,988	105,679	489,887	95,360	21,118	24,285
Fuel oil (bunkers) ..	130,543	412,199	414,437	396,006	122,857	157,590
Congo (Republic of)—						
Crude petroleum .. ..	<i>n.a.</i>	91,949	132,875	<i>n.a.</i>	77,951	69,880
Egypt—						
Crude petroleum .. ..	854,045	1,780,886	2,802,844	3,386,654	2,982,145	1,592,062
Motor spirit .. .. .	82,466	46,764	266,709	145,663	470,451	431,176
Kerosine .. .. .	5,908	4,591	4,288	3,937	12,795	15,340
Gas and diesel oils ..	7,393	7,323	12,184			
Fuel oil .. .. .	65,313	29,347	171,508	829,686	1,127,705	1,733,455
do. (bunkers) (c) ..	22,844	137,281	84,146			
Gabon—						
Crude petroleum .. ..	795,990	726,155	804,758	928,871	1,051,237	1,260,982
Libya—						
Crude petroleum .. ..	—	681,000	7,727,929	23,859,392	44,901,448	63,304,220
Morocco—						
Gas oil .. .. .	199	6	7,129	3,089	<i>n.a.</i>	39,728
South Africa—						
Motor spirit .. .. .	9,897	47	4	137	4,030	1,033
do. (bunkers) (a) ..	7,030	5,318	13,121	5,823	1,272	
Kerosine .. .. .	13,834	1,765	98	9,100	22,796	13,465
Gas oil (bunkers) (a) ..	17,085	8,896	16,723	14,069	<i>n.a.</i>	
Diesel oil .. .. .	32,764	45	153	25,410	64,688	86,368
do. (bunkers) .. ..	2,642	4,705	4,324	17,410	52,816	
do. (bunkers) (a) ..	22,711	28,777	26,313	23,559	8,191	950,633
Fuel oil .. .. .	37,967	12,146	241	36,074	587,379	
do. (bunkers) .. ..	188,030	245,664	267,448	360,575	732,558	18,946
do. (bunkers) (a) ..	166,517	210,537	152,062	127,583	18,946	
Asphalt and bitumen ..	50,127	43,414	43,263	26,614	6,095	<i>n.a.</i>
Tunisia (bunkers)—						
Aviation spirit .. ..	—	—	—	—	5,698	—
Fuel oil .. .. .	—	—	25	—	254	3,976
Lubricating oil and grease .. .. .	247	185	116	123	143	193
Mexico—						
Crude petroleum .. ..	147,349	913,531	1,038,797	989,559	1,113,693	<i>n.a.</i>
Motor spirit .. .. .	4,789	40,920	3,115	20,141	4,739	<i>n.a.</i>
Kerosine .. .. .	1	—	—	—	—	<i>n.a.</i>
Fuel oil .. .. .	995,775	1,132,626	1,607,093	1,578,429	1,378,775	<i>n.a.</i>
do. (bunkers) .. ..	78,938	22,168	46,189	55,118	24,679	<i>n.a.</i>
Gas oil .. .. .	10,654	7,132	5,778	37,166	302	<i>n.a.</i>
Paraffin wax .. .. .	1,270	704	1,581	1,664	1,794	<i>n.a.</i>
Natural gas ( <i>million cu. ft.</i> ) (b) .. .. .	46,989	51,756	49,888	47,621	59,510	<i>n.a.</i>
Netherlands Antilles—						
Crude petroleum .. ..	180,121	322,000	374,000	289,000	478,000	369,000
Aviation spirit .. ..	1,413,993	1,455,000	1,601,000	1,563,000	1,558,000	1,504,000
Motor spirit .. .. .	2,568,964	2,524,000	2,424,000	2,508,000	2,825,000	3,031,000
White spirit .. .. .	67,398	57,000	61,000	56,000	74,000	72,000
Kerosine .. .. .	1,326,787	1,060,000	830,000	859,000	724,000	642,000
Aviation turbine fuel ..	1,660,951	2,155,000	2,264,000	<i>n.a.</i>	2,882,000	3,008,000
Gas oil .. .. .	3,186,203	3,665,000	4,378,000	4,705,000	3,488,000	2,836,000
Diesel oil .. .. .	1,470,405	1,296,000	1,302,000	1,465,000	1,678,000	1,245,000
Fuel oil .. .. .	20,162,668	20,792,000	21,802,000	21,357,000	21,858,000	21,860,000
Lubricating oil .. ..	723,507	655,000	814,000	599,000	809,000	939,000
Asphalt .. .. .	840,671	894,000	835,000	808,000	898,000	865,000
United States—						
Crude petroleum .. ..	411,639	430,373	239,015	242,465	181,480	224,071
Natural gasoline .. ..	144	942	995	2,224	1,661	(d)
Aviation spirit .. ..	697,894	323,678	161,654	139,047	97,177	96,747
Motor spirit .. .. .	261,408	77,085	62,343	91,183	51,278	65,843

 (a) Foreign produce. See imports.  
 (b) Imports into the United States.

 (c) Bunkers for foreign ships only.  
 (d) Included with motor spirit.

## EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
United States <i>(cont.)</i> —						
Other finished light products .. ..	125,301	128,492	146,658	<i>n.a.</i>	<i>n.a.</i>	261,456
Kerosine .. ..	75,106	26,767	39,680	65,321	20,319	21,163
Aviation turbine fuel ..	14,382	15,452	10,585	21,173	21,597	19,625
Gas oil and distillate						
fuel oil .. ..	1,366,620	957,356	1,248,478	2,353,099	910,949	592,233
Residual fuel oil ..	2,742,096	2,080,066	1,874,269	2,228,511	2,790,584	2,187,049
Fuel oil (bunkers) ..	11,835,000	10,801,000	9,837,000	9,168,000	9,205,000	8,520,000
Lubricating oil .. ..	2,079,634	2,248,462	2,326,245	2,444,273	2,410,537	1,986,713
Transformer oil .. ..	34,229	43,181	43,188	51,194	57,372	50,882
Greases .. ..	51,885	47,551	52,678	50,244	52,362	50,686
Paraffin wax .. ..	137,697	123,440	144,801	148,049	179,597	174,514
Petroleum jelly .. ..	34,613	32,911	31,884	32,100	31,624	29,378
Natural asphalt and bitumen .. ..	28,571	29,455	40,790	36,478	34,161	37,826
Other asphalt, etc. ..	127,753	82,793	116,384	106,467	99,635	55,292
Petroleum coke .. ..	1,224,644	1,298,341	1,331,473	1,921,902	2,431,794	2,114,689
Liquefied petroleum gases .. ..	252,196	299,434	326,923	387,870	452,705	633,744
Natural gas ( <i>million cu. ft.</i> ) .. ..	11,332	10,747	14,835	15,964	17,275	23,891
Argentina—						
Crude petroleum .. ..	413	31,502	250,388	100,260	15,960	—
Kerosine .. ..	<i>n.a.</i>	1,997	24,758	7,482	—	1,033
Gas oil .. ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	33,458	—	5
Fuel oil .. ..	<i>n.a.</i>	32,037	488,024	610,169	469,865	878,065
Paraffin wax .. ..	606	20	430	790	974	758
Asphalt .. ..	1,808	348	1,092	3,271	2,068	1,351
Grahamite ("Rafaelite")	2,125	1,152	713	828	1,052	443
Bolivia—						
Crude petroleum .. ..	130,912	83,514	106,000	<i>n.a.</i>	32,191	35,181
Motor spirit .. ..	3,491	7,035	976	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Kerosine .. ..	16	—	81	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Brazil—						
Crude petroleum .. ..	579,081	1,035,867	292,855	354,445	<i>n.a.</i>	<i>n.a.</i>
Fuel oil .. ..	59,057	73,643	75,926	31,732	728	<i>n.a.</i>
Colombia—						
Crude petroleum .. ..	4,284,315	3,800,199	3,348,082	4,295,293	4,181,307	5,521,144
Gas and diesel oil ..	1,220	—	2,181	17,071	—	—
Fuel oil .. ..	576,704	395,166	597,856	344,781	686,455	701,951
Ecuador—						
Crude petroleum .. ..	—	—	145,892	160,972	76,000	<i>n.a.</i>
Peru—						
Crude petroleum .. ..	331,032	330,958	362,406	370,882	393,550	338,623
Natural gasoline .. ..	1,501	919	3,168	—	—	6
Aviation spirit .. ..	54,838	6,580	1,654	—	225	—
Motor spirit .. ..	22,492	4,894	357	39	1	—
Kerosine .. ..	83,214	36,513	671	322	40	61
Gas oil (a) .. ..	168,805	188,978	112,643	24,096	6,508	6,000
Fuel oil and diesel oil ..	80,485	68,568	105,617	75,851	62,964	75,743
do. (bunkers) .. ..	30,862	36,437	25,074	27,228	26,371	40,577
Lubricating oil and grease .. ..	109	331	1,211	2,585	1,365	3,686
Asphalt .. ..	—	20	—	—	2	—

(a) Including bunkers.

## EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
<b>Uruguay (a)—</b>						
Motor spirit, etc. ..	10,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Kerosine ..	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Gas oil and diesel oil ..	48,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Fuel oil ..	201,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
<b>Venezuela—</b>						
Crude petroleum ..	102,975,795	104,045,485	113,757,962	113,892,005	120,452,116	119,472,921
Motor spirit ..	2,099,542	2,265,766	2,349,614	2,677,331	2,187,050	2,984,333
Kerosine ..	601,461	877,551	1,160,292	1,208,577	1,524,263	1,924,508
Aviation turbine fuel ..	185,740	263,987	552,917	218,864	305,882	270,875
Gas oil ..	2,801,104	3,348,942	3,739,665	4,794,759	4,013,734	3,252,247
Diesel oil ..	2,872,191	2,558,107	2,759,686	2,898,506	2,467,774	2,308,104
Fuel oil ..	26,848,862	27,826,224	29,619,033	30,836,490	34,196,501	36,775,054
Lubricating oil ..	208,144	194,323	242,623	259,662	233,360	274,689
Paraffin wax ..	15,503	—	—	—	—	1,707
Asphalt ..	453,222	490,927	539,476	500,893	478,564	517,804
<b>Burma—</b>						
Paraffin wax ..	5,133	7,617	9,649	10,661	6,555	4,608
<b>Formosa—</b>						
Motor spirit, etc. ..	836	10,666	35,818	—	1,267	4,104
Fuel oil ..	11,614	39,018	32,788	50,304	80,384	36,524
Lubricating oil ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	12	30	480
Asphalt ..	6,933	31,573	36,745	27,639	12,776	12,221
<b>Indonesia—</b>						
Crude petroleum ..	7,298,643	9,577,801	5,445,685	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Motor spirit ..	1,477,656	1,149,511	1,147,770	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
White spirit ..	—	—	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Kerosine ..	484,569	427,653	484,418	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Gas and diesel oils ..	1,159,883	913,687	977,295	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
do. do. (bunker oil)	104,131	123,817	82,538	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Fuel oil ..	2,753,259	2,423,030	3,323,435	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
do. (bunker oil) ..	337,582	517,113	337,908	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Lubricating oil ..	41,568	20,146	26,194	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Paraffin wax ..	52,160	61,278	61,766	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
<b>Iran (b)—</b>						
Crude petroleum ..	31,932,790	41,162,557	44,521,989	51,383,320	57,128,588	74,122,716
Motor spirit ..	2,936,004	2,229,280	2,441,973	2,539,360	2,805,275	3,002,058
Kerosine ..	1,268,221	855,041	796,876	654,616	826,136	565,977
Gas oil ..	1,027,264	1,081,857	1,421,767	1,115,294	1,183,547	1,120,734
Diesel oil ..	863,817	575,763	557,483	473,513	386,888	289,941
Fuel oil ..	6,888,959	6,426,674	6,708,862	7,091,693	7,990,372	7,802,112
Pitch ..	<i>n.a.</i>	2,173	97,646	75,884	88,182	37,439
<b>Iraq—</b>						
Crude petroleum ..	44,490,282	45,851,135	45,937,931	53,237,116	58,246,932	60,674,147
Motor spirit ..	560	<i>n.a.</i>	<i>n.a.</i>	1,426	<i>n.a.</i>	<i>n.a.</i>
Kerosine ..	—	<i>n.a.</i>	<i>n.a.</i>	4	<i>n.a.</i>	<i>n.a.</i>
<b>Japan—</b>						
Aviation spirit (foreign produce) (bunkers) ..	94,662	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Motor spirit ..	262,060	460,436	319,111	238,943	260,413	393,580
Kerosine ..	72,276	40,409	68,400	84,275	175,850	178,905
Gas oil ..	82,761	77,450	75,022	75,125	163,658	178,561
Fuel oil, etc. (bunkers)—						
Domestic produce ..	192,612	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Foreign produce ..	3,775,913	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Lubricating oils ..	5,229	6,680	10,675	401,245	90,317	76,361
Paraffin wax ..	11,310	9,080	8,355	8,270	11,696	12,737
Asphalt and pitch ..	28,885	67,570	81,758	173,592	94,569	23,663
<b>Jordan—</b>						
Motor spirit ..	<i>n.a.</i>	440	691	484	<i>n.a.</i>	<i>n.a.</i>
Kerosine ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	56	<i>n.a.</i>	<i>n.a.</i>
Asphalt and bitumen ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	9,094	6,350	<i>n.a.</i>

(a) Bunkers on foreign ships only.

(b) Years ended March 20 following that stated.

## EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Kuwait—						
Crude petroleum ..	71,488,439	72,997,668	81,298,330	85,323,283	94,443,539	96,261,808
Light distillate ..	667,884	600,096	565,000	610,000	1,017,000	
Gas oil .. ..	1,478,982	1,460,859	1,795,000	2,144,000	2,446,000	
Diesel oil .. ..	271,357	48,348	91,000	26,000	34,000	
do. (bunkers) ..	172,655	141,201	(c)	(c)	(c)	
Fuel oil .. ..	2,176,610	2,094,033	2,035,000	2,064,000	2,291,000	
do. (bunkers) ..	2,911,169	2,947,494	3,612,000	3,833,000	3,991,854	
Netherlands New Guinea—						
Crude petroleum ..	244,579	164,791	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Neutral Zone (a)—						
Crude petroleum ..	(b) 5,605,000	7,463,000	9,394,000	13,273,000	15,527,000	<i>n.a.</i>
Fuel oil .. ..	(b) 715,000	975,000	2,478,000	2,288,000	2,622,000	<i>n.a.</i>
Saudi Arabia—						
Crude petroleum ..	49,948,993	55,955,606	62,089,088	66,472,079	70,832,950	84,213,009
Aviation spirit ..	2,300	18,700	25,200	12,700	16,000	<i>n.a.</i>
Motor spirit .. ..	956,200	811,300	749,800	967,000	1,234,200	<i>n.a.</i>
Kerosine .. ..	710,900	611,000	414,000	384,500	280,100	<i>n.a.</i>
Aviation turbine fuel ..	317,900	411,600	562,200	566,400	752,600	<i>n.a.</i>
Diesel oil .. ..	1,264,900	1,504,700	1,450,400	1,871,000	1,557,200	<i>n.a.</i>
Fuel oil .. ..	4,633,000	5,332,400	5,339,500	5,759,700	5,922,700	<i>n.a.</i>
Syria—						
Natural asphalt ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	100	551

(a) Neutral Zone of Kuwait and Saudi Arabia.

(b) Estimated.

(c) Included with fuel oil.

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

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
<b>United Kingdom—</b>						
Crude petroleum (g) ..	44,611,161	48,900,509	52,240,771	54,173,381	59,339,000	65,653,000
Aviation spirit (a) ..	259,636	289,035	185,832	170,971	145,257	137,612
Aviation turbine fuel ..	96,447	144,719	103,576	51,227	39,081	32,171
Motor spirit (f) ..	2,103,253	2,192,403	2,385,290	2,888,706	3,151,744	3,163,000
Other spirit ..	305,056	342,670	707,927	986,046	1,762,400	2,091,000
Kerosine ..	649,562	482,884	708,049	791,324	572,547	636,000
Aviation jet fuel ..	75,081	81,527	183,534	216,085	242,715	358,850
Fuel oil (a) ..	7,415,901	5,310,629	7,317,177	8,474,633	8,852,982	10,264,000
Diesel oil ..	76,042	121,856	170,544	154,312	226,710	220,000
Gas oil ..	2,116,763	2,042,461	2,164,449	2,766,285	2,711,069	2,246,000
Lubricating oil ..	489,117	515,185	503,072	528,036	532,319	562,000
Greases ..	3,489	2,503	2,805	2,589	752	452
Other oils ..	(c) 12,677	68,433	205,625	26,837	2,532	1,755
Mineral jelly ..	6,294	4,824	4,583	3,691	3,920	3,131
Paraffin wax ..	35,545	31,682	23,967	22,730	10,719	11,993
Other petroleum wax ..	58,677	53,579	836,787	764,142	159,074	105,718
Petroleum coke ..	61,459	44,272	58,869	68,012	94,884	93,000
Asphalt and bitumen (d)	75,102	83,866	86,040	82,122	98,060	81,878
Natural gas ( <i>Million cu. ft.</i> ) ..	90	—	—	—	3,200	22,700
<b>Channel Islands—</b>						
Aviation spirit ..	4,503	3,558	3,975	3,427	3,514	2,734
Motor spirit ..	23,649	25,777	26,369	27,631	19,432	31,387
Other spirit (b) ..	657	42	309	299	51	128
Kerosine ..	7,223	9,854	12,796	14,037	14,425	18,513
Gas and fuel oil ..	93,220	100,449	126,333	167,218	174,609	201,906
Lubricating oil ..	1,406	1,504	1,679	1,645	1,831	1,745
Greases (b) ..	47	26	27	48	164	23
<b>Gibraltar (e)—</b>						
Aviation spirit ..		7,540	4,808	(h) 4,000	(h) 5,000	(h)(c) 413
Motor spirit ..		5,000	10,400	8,400	10,000	3,375
Diesel oil ..	5,000	10,441	11,470	192,000	179,000	{ (c) 11,181 3,460
Fuel oil ..		3,288	3,288			
Lubricating oil ..		1,075	1,161	1,848	2,250	1,709
Kerosine ..	220	41	50	65	90	31
<b>Malta—</b>						
Aviation spirit (a) ..	12,360	6,972	9,998	14,428	12,044	9,080
Motor spirit ..	18,674	20,330	16,167	21,445	19,238	23,979
Aviation turbine fuel (a)	37,005	26,097	30,595	47,607	38,831	40,505
Kerosine ..	27,624	27,339	25,137	24,112	30,026	19,953
Fuel oil (a) ..	39,272	38,701	55,251	58,597	91,040	89,835
Gas oil (a) ..	17,638	17,453	17,863	18,301	22,596	33,494
Lubricating oil ..	1,301	1,367	1,532	1,146	1,536	1,339
Paraffin wax ..	318	438	441	421	400	15
Bitumen ..	1,302	1,440	1,439	2,038	1,721	1,999
<b>Gambia—</b>						
Aviation spirit ..	—	284	—	—	—	—
Motor spirit ..	1,920	2,938	3,129	3,438	3,690	3,857
Kerosine ..	475	667	698	776	737	860
Aviation turbine fuel ..	(c) 32	415	175	—	—	—
Other fuel oils ..	—	—	115	14	—	—
Gas oil ..	1,446	2,808	2,908	3,001	1,554	3,966
Diesel oil ..	1,591	521	553	587	1,856	
Lubricating oil ..	272	229	354	294	251	
Asphalt and bitumen ..	70	296	867	689	827	—

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

(a) Including imports for bunkering purposes.

See exports.

(b) Jersey only.

(c) Excess of re-exports.

(d) Natural.

(e) Excluding imports for bunkers.

(f) Including white spirit.

(g) Including partly refined.

(h) Including aviation turbine fuel.

## IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES (cont.)</b>						
<b>Ghana—</b>						
Crude petroleum ..	—	2	—	205,594	549,593	604,293
Aviation spirit (b) ..	5,838	2,518	3,192	2,859	4,937	1,236
Motor spirit ..	138,466	103,127	130,776	92,810	1,225	1,079
White spirit ..	1,300	1,312	2	18	345	406
Kerosine ..	49,742	34,498	45,126	26,421	20	—
Aviation turbine fuel ..	839	4,591	14,161	12,866	12,288	20,390
Fuel oil (b) ..	62,731	25,260	29,047	52,516	7,002	7,673
Gas oil (b) ..	165,427	145,518	181,824	156,137	222	3,040
Diesel oil ..	7,274	131,675	29,001	14,811	750	2
Lubricating oil (b) ..	12,678	12,423	15,424	14,359	15,095	20,759
Greases ..	561	540	752	1,398	954	986
Petroleum jelly ..	53	80	823	1,095	259	606
Asphalt and bitumen ..	16,027	15,415	39,136	7,480	9,489	12,008
<b>Kenya—</b>						
Crude petroleum ..	—	—	—	217,566	1,476,566	1,814,865
Aviation spirit (b) ..	20,450	14,959	13,358	15,033	11,319	5,830
Motor spirit (b) ..	110,711	106,527	117,334	105,171	14,689	821
Kerosine ..	63,878	74,264	(b)(c)96,570	(b)(c)89,171	(b)(c)38,628	(b)(c) 5,350
Gas, diesel, fuel oils (b) ..	603,302	573,589	601,182	576,269	53,227	97,819
Lubricating oil (b) ..	9,127	14,296	13,256	5,455	8,529	14,547
Greases ..	649	922	832	679	134	723
Petroleum jelly and paraffin wax ..	312	354	459	617	447	903
Asphalt ..	12,783	16,178	16,910	9,493	4,244	842
<b>Malawi—</b>						
Aviation spirit ..					21,102	n.a.
Motor-spirit ..					17,895	n.a.
Kerosine ..					6,203	n.a.
Aviation turbine fuel ..					556	n.a.
White spirit ..					15	n.a.
Gas oil ..	n.a.	n.a.	n.a.	n.a.	21,568	n.a.
Diesel oil ..					111	n.a.
Fuel oil ..					1,390	n.a.
Lubricating oil ..					1,354	n.a.
Grease ..					58	n.a.
Asphalt and bitumen ..					744	n.a.
<b>Mauritius—</b>						
Aviation spirit (b) ..	2,245	1,293	2,664	1,225	1,202	2,607
Motor spirit ..	27,559	12,109	23,509	24,161	21,692	23,159
Aviation turbine fuel (b) ..	254	1,361	836	1,620	3,019	3,453
Kerosine ..	4,264	2,797	5,491	5,165	7,668	13,549
Lubricating oils ..	1,779	2,065	1,881	1,792	2,130	2,292
Gas, diesel, fuel oils (b) ..	22,576	39,861	47,990	34,617	68,393	58,138
Grease ..	109	147	200	185	130	114
Asphalt and pitch ..	4,524	2,752	2,345	2,739	4,455	5,867
Asphalt, natural ..	479	1,333	417	498	512	1,433
<b>Nigeria—</b>						
Aviation spirit ..	28,939	21,624	(a) 3,919	(a) 19,374	50,661	6,719
Motor spirit ..	194,669	211,180	701,905	228,929	270,871	245,782
White spirit ..	222	101	21,932	23,736	1,336	746
Aviation turbine fuel ..	6,900	28,394	43,712	20,730	77,987	64,928
Kerosine ..	94,502	102,358	475,060	132,889	411,782	84,678
Gas oil (b) ..	100,453	169,050	185,837	259,010	320,850	340,225
Diesel oil (b) ..	91,293	45,150	26,256	6,866	(a) 2,613	688
Fuel oil (b) ..	58,630	166,526	140,383	199,517	229,817	255,080
Lubricating oil ..	18,540	18,100	20,744	22,916	24,352	23,000
Petroleum jelly ..	162	41	1,159	1,734	1,372	960
Asphalt and bitumen ..	41,849	11,634	19,329	9,739	8,698	23,440

(a) Excess of re-exports.

(c) Including aviation turbine fuel.

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

## IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
<i>(cont.)</i>						
<b>Rhodesia (e)—</b>						
Aviation spirit .. ..	11,486	10,267	9,417	7,542	4,333	4,802
Motor spirit .. ..	237,895	244,723	248,642	237,509	148,162	53,682
Kerosine .. ..	40,607	40,867	42,782	44,564	30,157	32,473
Aviation jet fuel .. ..	17,640	25,878	32,664	35,661	32,319	10,110
White spirit .. ..	1,672	2,251	2,253	2,260	1,853	976
Other oils .. ..	2,203	1,396	1,372	1,052	1,064	1,218
Gas oil .. ..	164,331	174,185	191,788	202,243	148,703	46,425
Fuel oil .. ..	5,319	4,599	6,065	6,105	955	210
Lubricating oil .. ..	20,234	17,528	21,153	18,263	12,329	13,754
Greases (c) .. ..	2,050	1,803	2,040	1,601	1,286	1,634
Paraffin wax .. ..	1,637	1,462	2,022	1,437	2,095	1,671
Asphalt and bitumen .. ..	29,384	17,288	21,254	17,406	15,009	5,212
<b>St. Helena—</b>						
Motor spirit .. ..	260	191	220	270	295	292
Kerosine .. ..	104	97	130	148	105	134
Fuel oils .. ..	168	141	208	115	264	614
Lubricating oil .. ..	6	10	15	17	19	16
<b>Seychelles—</b>						
Motor spirit .. ..	378	388	370	521	639	773
Kerosine .. ..	349	372	402	544	445	531
Fuel oil .. ..	584	650	860	1,660	2,538	2,885
<b>Sierra Leone—</b>						
Aviation spirit (a) .. ..	455	1,686	1,454	1,391	2,065	2,494
Motor spirit .. ..	15,377	19,372	21,571	21,680	20,973	25,748
Aviation turbine fuel (a) .. ..	—	—	802	1,924	<i>n.a.</i>	6,157
Kerosine .. ..	10,800	11,102	13,574	12,886	15,615	9,830
Gas oil (a) .. ..	7,069	138,696	158,084	131,787	244,060	(d) 3,392
Diesel oil (a) .. ..	122,733					
Fuel oil (a) .. ..	159,929	219,515	179,422	177,673	16,218	25,085
Lubricating oil .. ..	1,964	2,134	2,317	2,475	3,557	2,174
Asphalt and bitumen .. ..	1,587	2,900	2,972	5,676	2,947	3,500
<b>Tanzania—</b>						
Aviation spirit (a) .. ..	3,481	3,047	4,603	1,512	3,777	4,669
Motor spirit .. ..	64,085	58,566	63,316	61,057	43,446	11,587
Kerosine .. ..	29,741	30,636	37,525	39,115	32,543	18,972
Gas, diesel, fuel oils (a) .. ..	184,033	165,573	175,379	205,094	66,499	45,553
Lubricating oil .. ..	6,441	6,048	8,086	6,400	6,622	6,567
Greases .. ..	381	650	605	513	348	473
Petroleum jelly and paraffin wax .. ..	25	47	91	83	81	116
Asphalt .. ..	3,960	7,699	3,390	4,600	910	140
<b>Uganda—</b>						
Aviation spirit (a) .. ..	3,341	3,703	3,334	3,265	3,336	3,604
Motor spirit .. ..	57,820	54,719	55,768	62,152	24,449	37,515
Kerosine .. ..	23,315	27,536	(a)(b)30,108	(a)(b)32,828	(a)(b)19,499	(a)(b)22,152
Gas, diesel, fuel oils .. ..	38,586	37,289	42,658	44,465	19,998	23,731
Lubricating oil .. ..	3,671	3,544	3,797	3,874	4,059	4,440
Greases .. ..	419	302	362	305	317	299
Petroleum jelly and paraffin wax .. ..	85	93	126	156	193	177
Asphalt .. ..	977	4,568	1,755	709	626	289
<b>Zambia—</b>						
Aviation spirit .. ..	} <i>n.a.</i>	} <i>n.a.</i>	} <i>n.a.</i>	} <i>n.a.</i>	2,528	3,183
Motor spirit .. ..					72,769	93,293
Aviation turbine fuel .. ..					2,141	4,141
Kerosine .. ..					11,177	14,208
White spirit .. ..					123	530
Gas oil .. ..					50,529	65,741
Diesel oil .. ..	815	2,088				

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

(d) Excess of re-exports.

(b) Including aviation turbine fuel.

(c) Including mineral jelly. (e) Figures for years 1960 to 1963 relate to Rhodesia and Nyasaland



## IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES (cont.)</b>						
<b>Zambia (cont.)—</b>						
Fuel oil .. .. .	} <i>n.a.</i>	} <i>n.a.</i>	} <i>n.a.</i>	} <i>n.a.</i>	} 816	} 2,116
Lubricating oil and grease .. .. .						
Paraffin wax .. .. .						
<b>Canada—</b>						
Crude petroleum .. .. .	17,937,090	19,035,569	19,216,815	21,102,981	19,137,461	19,224,555
Tops for refiners .. .. .	—	—	—	6,689	<i>n.a.</i>	<i>n.a.</i>
Aviation spirit .. .. .	193,585	115,909	75,947	38,818	38,279	19,008
Motor spirit .. .. .	101,729	84,493	90,496	242,898	236,183	252,221
Aviation turbine fuel .. .. .	( <i>c</i> )	( <i>c</i> )	( <i>c</i> )	( <i>c</i> )	166,594	261,089
Kerosine, etc. .. .. .	108,926	33,485	34,782	25,058	( <i>f</i> ) 22,525	( <i>f</i> ) 34,946
Lubricating oils .. .. .	163,903	153,765	150,563	157,164	( <i>f</i> ) 187,759	( <i>f</i> ) 225,931
Diesel oil .. .. .	368,456	324,282	373,528	382,818	418,501	866,260
Fuel oil .. .. .	3,511,635	2,962,946	3,094,324	3,416,641	<i>f</i> ) 4,193,310	<i>f</i> ) 6,210,475
do. ( <i>e</i> ) .. .. .	1,966	2,518	1,269	—	—	—
Other petroleum oils .. .. .	3,992	7,208	5,178	5,226	<i>n.a.</i>	<i>n.a.</i>
Liquefied petroleum gas .. .. .	12,052	7,813	6,719	8,945	( <i>f</i> ) 7,135	( <i>f</i> ) 7,965
Grease .. .. .	7,371	6,911	6,944	6,534	6,331	6,814
Petroleum jelly .. .. .	( <i>c</i> )	( <i>c</i> )	( <i>c</i> )	( <i>c</i> )	1,478	1,476
Paraffin wax, etc. .. .. .	18,614	18,610	( <i>d</i> ) 17,006	( <i>d</i> ) 16,751	( <i>d</i> ) 15,510	( <i>d</i> ) 14,971
Asphaltum oil, etc. .. .. .	5,980	5,565	6,292	13,224	<i>n.a.</i>	<i>n.a.</i>
Natural asphalt .. .. .	( <i>g</i> )	( <i>g</i> )	( <i>g</i> )	( <i>g</i> )	5,968	4,432
Asphalt .. .. .	24,743	28,289	15,397	38,082	<i>n.a.</i>	<i>n.a.</i>
Petroleum coke .. .. .	360,130	326,557	301,846	328,943	391,381	366,308
Other products .. .. .	129,396	142,852	138,928	137,647	<i>n.a.</i>	<i>n.a.</i>
Natural gas ( <i>million cubic feet</i> ) .. .. .	5,571	5,574	5,575	6,877	8,046	15,673
<b>Antigua—</b>						
Aviation spirit .. .. .	1,437	2,906	2,888	5,178	4,096	3,266
Motor spirit .. .. .	2,871	3,339	3,243	3,629	1,856	3,433
Kerosine .. .. .	4,061	5,170	9,929	21,125	10,626	18,635
Fuel oils .. .. .	3,657	5,988	6,745	7,482	5,314	10,377
Lubricating oil .. .. .	163	378	100	235	229	322
<b>Bahamas—</b>						
Motor spirit .. .. .	35,738	43,980	40,174	42,357	46,056	49,046
Kerosine .. .. .	11,171	13,018	10,233	818	5,822	5,764
Fuel oils .. .. .	41,246	59,900	88,204	80,258	113,587	103,820
Lubricating oil .. .. .	964	1,492	1,112	1,220	1,680	1,768
<b>Barbados—</b>						
Crude petroleum .. .. .	10,542	23,218	16,280	29,266	24,589	39,036
Aviation spirit ( <i>b</i> ) .. .. .	2,316	2,232	2,252	2,512	1,880	2,108
Motor spirit .. .. .	14,879	10,965	14,977	21,725	20,411	12,675
Kerosine ( <i>a</i> ) ( <i>b</i> ) .. .. .	13,760	14,198	15,753	17,850	17,997	19,811
Gas oil and diesel oil ( <i>b</i> ) .. .. .	} 19,764	} 16,384	} 221,696	} 262,301	} 93,853	} 147,956
Fuel oil ( <i>b</i> ) .. .. .						
Lubricating oil .. .. .						
.. .. .	559	962	668	862	831	1,030
<b>Bermuda (<i>b</i>)—</b>						
Aviation and motor spirits .. .. .	93,905	96,264	70,859	59,517	55,053	49,206
Aviation turbine fuel .. .. .	27,985	38,113	43,838	37,794	20,711	46,023
Kerosine .. .. .	14,872	22,069	22,768	16,583	27,398	34,045
Diesel oil .. .. .	<i>n.a.</i>	41,375	48,411	40,413	41,819	22,713
Fuel oil .. .. .	18,453	19,974	12,349	22,759	29,610	34,509
Lubricating oil .. .. .	901	957	1,025	894	941	718
Asphalt .. .. .	1,884	577	1,614	—	1,832	1,157
<b>British Honduras—</b>						
Aviation spirit .. .. .	326	41	207	489	143	30
Motor spirit .. .. .	4,974	4,258	8,089	6,688	9,288	7,873
Kerosine .. .. .	2,884	2,236	4,744	3,497	3,633	3,748

(a) Including aviation turbine fuel.

(c) Included with "Other products".

(e) Ex warehoused, for ships' stores.

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

(d) Paraffin wax only.

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

(g) Included with "asphalt".

## IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES (cont.)						
British Honduras (cont.)—						
Diesel and fuel oils ..	4,906	9,989	8,847	7,881	8,620	14,335
Lubricating oil ..	396	490	828	6,648	522	770
Asphalt, etc. ..	809	102	516	1,447	42	14
Cayman Islands—						
Aviation and motor spirits ..	1,688	1,716	1,537	1,584	2,295	1,780
Kerosine ..	933	1,380	857	754	1,083	925
Diesel oil ..	1,059	972	358	1,036	1,321	908
Dominica—						
Aviation and motor spirits ..	1,255	1,980	1,753	3,176	n.a.	n.a.
Kerosine ..	648	960	920	1,176	n.a.	n.a.
Fuel oil and diesel oil ..	913	1,184	1,011	r 988	n.a.	n.a.
Lubricating oil ..	155	238	69	71	n.a.	n.a.
Road oil ..	149	246	291	239	n.a.	n.a.
Grenada—						
Aviation and motor spirits ..	3,418	2,933	3,587	3,498	3,878	4,231
Kerosine ..	1,636	1,679	2,019	1,458	1,947	2,285
Fuel oils ..	2,039	1,235	2,115	1,257	708	1,468
Lubricating oil ..	146	209	71	90	108	178
Road oil ..	1,571	1,496	56	27	605	6,451
Jamaica—						
Aviation spirit (b) ..	17,674	12,341	12,007	r 14,765	11,207	6,576
Motor spirit ..	71,021	78,190	84,927	83,602	36,731	750
Kerosine ..	35,224	20,602	37,938	r 74,290	48,530	1,559
Gas oil (b) ..	83,753	52,235	53,058	49,644	30,463	18,695
Diesel oil (b) ..	70,213	91,862	89,606	83,216	35,127	12,629
Fuel oil (b) ..	393,705	596,994	497,743	519,478	427,901	47,467
Lubricating oil ..	4,717	5,179	5,545	5,135	5,818	6,456
Grease ..	442	354	385	300	324	8
Petroleum jelly ..	224	248	246	279	296	230
Paraffin wax ..	23	12	12	23	57	101
Natural asphalt ..	3,571	1,812	2,348	r 3,708	6,589	1,804
Montserrat—						
Motor spirit ..	143	340	350	251	517	n.a.
Kerosine ..	129	213	232	105	326	n.a.
Fuel oils ..	348	359	606	322	517	n.a.
Lubricating oil ..	5	18	29	46	61	n.a.
St. Kitts—						
Motor spirit ..	1,298	1,280	(a) 2,443	1,559	1,707	1,965
Kerosine ..	1,313	1,873	(a) 2,118	1,793	1,983	2,009
Fuel oils ..	1,740	1,975	(a) 2,908	2,201	1,679	1,743
Lubricating oil ..	145	135	(a) 172	146	161	149
St. Lucia—						
Motor spirit ..	1,706	1,965	2,044	2,758	3,067	3,550
Kerosine ..	735	929	975	1,174	1,187	1,296
Fuel oil ..	1,704	2,513	2,702	r 2,804	3,181	3,351
Lubricating oil ..	142	112	142	r 142	128	229
Road oil ..	r 498	r 434	r 1,118	r 699	1,056	10
St. Vincent—						
Aviation and motor spirits ..	1,997	2,237	2,199	3,427	2,708	2,484
Kerosine ..	1,355	1,247	1,401	1,232	1,643	1,503
Gas, diesel and fuel oils ..	693	762	657	819	982	810
Lubricating oil ..	89	95	76	101	296	87
Road oil ..	1,226	860	439	389	585	804
Asphalt ..	1	5	4	—	n.a.	19

(a) Total imports.

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

## IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965		
<b>COMMONWEALTH COUNTRIES</b>								
<i>(cont.)</i>								
Trinidad and Tobago—								
Crude petroleum .. .. .	5,642,917	8,795,309	9,036,205	9,740,022	11,998,998	13,307,000		
Aviation and motor spirits .. .. .	1	—	—	13,496	46,484	<i>n.a.</i>		
Kerosine .. .. .	—	4	—	—	—	<i>n.a.</i>		
Gas oil .. .. .	144,021	—	—	—	—	<i>n.a.</i>		
Fuel oil .. .. .	6,681	—	18,337	8	<sup>(d)</sup> 1	<i>n.a.</i>		
Lubricating oil .. .. .	7,000	6,558	6,572	8,286	8,048	<i>n.a.</i>		
Greases .. .. .	110	378	246			146	232	<i>n.a.</i>
Petroleum jelly .. .. .	365	100	88					21
Paraffin wax .. .. .	21	18	27			<i>n.a.</i>		
Turks and Caicos Islands—								
Aviation and motor spirit .. .. .	157	156	131	354	<i>n.a.</i>	<i>n.a.</i>		
Kerosine .. .. .	187	189	203	254	<i>n.a.</i>	<i>n.a.</i>		
Gas, diesel and fuel oils	804	98	204	347	<i>n.a.</i>	<i>n.a.</i>		
Lubricating oil .. .. .	9	7	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>		
Virgin Islands—								
Motor spirit .. .. .	272	314	768	891	1,241	1,320		
Kerosine .. .. .	150	140	316	395	317	386		
Diesel oil .. .. .	162	122	430	372	578	791		
Lubricating oil .. .. .	9	10	30	35	31	64		
British Guiana—								
Aviation spirit (c) .. .. .	4,156	7,929	4,262	<i>n.a.</i>	3,472	3,739		
Motor spirit .. .. .	19,705	21,967	18,618	<i>n.a.</i>	21,329	22,178		
Kerosine .. .. .	16,203	16,385	17,927	<i>n.a.</i>	18,681	22,369		
Gas, diesel and fuel oils	172,243	414,193	287,145	<i>n.a.</i>	480,647	317,086		
Lubricating oil .. .. .	3,809	2,780	2,620	<i>n.a.</i>	2,263	3,259		
Grease .. .. .	331	292	273	<i>n.a.</i>	237	349		
Paraffin wax .. .. .	30	27	26	<i>n.a.</i>	33	21		
Petroleum jelly .. .. .	73	66	68	<i>n.a.</i>	54	56		
Road oil .. .. .	1,340	1,345	527	<i>n.a.</i>	652	1,201		
Asphalt and bitumen .. .. .	436	2,850	1,433	<i>n.a.</i>	1,548	3,922		
Asphalt natural .. .. .	1,065	879	753	<i>n.a.</i>	191	351		
Falkland Islands—								
Motor spirit .. .. .	244	259	253	77	303	201		
Kerosine .. .. .	50	30	31	7	24	8		
Gas and diesel oils .. .. .	11,834	3,883	54	11,498	4,127	2,612		
Fuel oil (c) .. .. .	589,463	63,178	31,168	14,944	5,705	3,127		
Lubricating oil .. .. .	184	128	25	12	40	23		
Aden—								
Crude petroleum .. .. .	4,205,582	5,284,281	6,216,214	6,305,476	6,758,120	6,895,912		
Motor spirit .. .. .	35,822	26,921	33,792	35,393	75,569	114,508		
Kerosine .. .. .	31,293	—	761	—	10,881	7,310		
Gas and fuel oils (c) .. .. .	1,745,475	1,591,976	1,138,797	1,621,335	1,603,304	919,467		
Lubricating oil and greases .. .. .	4,319	4,097	6,479	6,815	7,198	5,775		
Aden Protectorate (b)—								
Motor spirit .. .. .	4,406	8,603	7,125	<sup>(e)</sup>	<sup>(e)</sup>	<sup>(e)</sup>		
Kerosine .. .. .	6,963	7,260	8,267	<sup>(e)</sup>	<sup>(e)</sup>	<sup>(e)</sup>		
Gas and fuel oils .. .. .	2,193	5,109	3,691	<sup>(e)</sup>	<sup>(e)</sup>	<sup>(e)</sup>		
Lubricating oil and grease .. .. .	170	98	198	<sup>(e)</sup>	<sup>(e)</sup>	<sup>(e)</sup>		
Bahrain Islands (a)—								
Crude petroleum .. .. .	7,943,000	8,444,000	9,533,000	8,799,000	7,666,000	6,740,000		
Brunei—								
Aviation and motor spirits .. .. .	526	525	103	272	509	1,023		
Kerosine .. .. .	1,653	1,233	1,547	1,741	1,557	717		

(a) British Protected State.

(b) Exports from Aden to the Protectorate.

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

(d) Excess of re-exports.

(e) Included with Aden.

## IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES (cont.)						
Brunei (cont.)—						
Diesel oil .. ..	—	(d) 24	(d) 27	(d) 98	(d) 8	(d) 16
Fuel oil .. ..	7	(d) 11	4	—	(d) 3	(d) 1
Lubricating oil .. ..	928	1,188	1,670	934	1,019	1,292
Grease .. ..	24	29	117	50	95	25
Ceylon—						
Aviation spirit (a) .. ..	3,041	2,877	1,985	1,683	929	9,327
Motor spirit .. ..	154,445	164,435	134,160	136,683	102,780	161,813
Kerosine .. ..	144,174	154,795	176,634	136,826	151,694	180,783
Gas oil (a) .. ..	100,411	125,452	153,647	129,409	111,428	186,450
Diesel oil (a) .. ..	99,560	147,795	138,973	131,569	136,650	141,058
Fuel oil (a) .. ..	355,677	421,599	391,499	332,784	305,286	287,568
Lubricating oil .. ..	9,226	10,022	12,788	16,363	9,857	14,463
Other oils and greases .. ..	555	494	637	174	117	399
Paraffin wax .. ..	768	384	506	108	642	615
Asphalt (incl. natural) .. ..	18,102	1,719	3,718	4,183	10,314	5,777
Cyprus—						
Aviation spirit (a) .. ..	8,932	5,665	3,704	3,617	6,392	6,211
Motor spirit .. ..	59,430	55,396	59,408	56,798	54,782	63,870
Aviation turbine fuel .. ..	35,726	22,584	4,332	29,303	20,734	4,393
Kerosine, etc. .. ..	23,367	21,886	25,273	24,501	26,560	18,766
Gas oil .. ..	61,189	67,728	68,090	76,916	82,122	86,365
Other fuel oils .. ..	111,545	103,866	111,824	126,936	99,707	162,584
Lubricating oil .. ..	2,575	3,778	2,812	4,370	2,715	4,382
Paraffin wax .. ..	234	96	194	93	206	111
Asphalt and bitumen .. ..	7,771	10,925	13,527	15,872	10,480	10,600
Hong Kong—						
Aviation spirit .. ..	11,666	r 12,538	r 6,923	r 4,885	3,273	4,977
Motor spirit .. ..	r 63,882	r 60,014	r 54,812	r 66,346	64,359	65,285
White spirit .. ..	r 5,346	r 5,097	r 9,940	r 8,168	9,690	14,866
Aviation turbine fuel .. ..	r 38,543	r 54,288	r 83,149	r 106,830	98,127	159,299
Kerosine .. ..	r 95,407	r 107,210	r 120,439	r 141,708	130,675	130,538
Diesel oil and gas oil .. ..	r 185,535	r 219,799	r 243,716	r 271,116	264,440	300,774
Fuel oil .. ..	r 776,422	r 858,254	r 969,656	r 1,124,850	1,225,510	1,356,817
Lubricating oil .. ..	r 11,067	r 11,233	r 15,553	r 13,430	19,708	13,828
Greases .. ..	r 942	r 811	r 917	r 904	849	1,060
Petroleum jelly .. ..	r 201	r 258	r 264	r 315	376	183
Paraffin wax .. ..	r 998	r 1,028	r 1,410	r 1,317	1,141	1,120
Asphalt and bitumen .. ..	r 9,340	r 10,278	r 11,272	r 10,958	13,547	12,542
Asphalt (natural) .. ..	468	658	483	r 403	325	357
India (b)—						
Crude petroleum .. ..	2,658,517	6,220,280	4,258,742	7,024,269	4,161,948	5,427,392
Aviation and motor spirits .. ..	} 85,472	105,168	98,559	80,038	63,114	n.a.
Other spirit .. ..						
Kerosine .. ..	907,283	711,235	1,590,508	1,289,740	848,808	n.a.
Diesel oil .. ..	276,310	343,502	452,200	560,081	3,721,319	n.a.
Fuel oil .. ..	71,785	164,983	200,920	905,390	296,173	n.a.
Lubricating oil and grease .. ..	310,333	232,834	272,903	380,703	281,209	n.a.
Turpentine substitute .. ..	13,044	n.a.	n.a.	n.a.	n.a.	n.a.
Petroleum jelly .. ..	1,857	1,735	1,513	1,570	3,622	n.a.
Paraffin wax .. ..	7	11	16	—	2	n.a.
Asphalt and bitumen .. ..	11,533	18,042	10,525	6,963	3,056	642
Goa—						
Motor spirit .. ..	18,337	n.a.	n.a.	(c)	(c)	(c)
Kerosine .. ..	5,513	n.a.	n.a.	(c)	(c)	(c)
Lubricating oils .. ..	1,327	n.a.	n.a.	(c)	(c)	(c)
Other oils .. ..	17,854	n.a.	n.a.	(c)	(c)	(c)

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

(b) Years ended March 31 following that stated.

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

(d) Excess of re-exports

## IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES (cont.)						
Malaya—						
Crude petroleum .. .. .	279,090	1,276,487	3,266,002	3,917,179	4,198,367	4,676,388
Aviation spirit .. .. .	126,571	172,075	163,456	158,219	150,048	221,214
Motor spirit .. .. .	1,048,410	837,632	662,154	721,112	574,597	446,367
White spirit .. .. .	91,808	125,911	192,769	—	49,229	40,448
Aviation turbine fuel .. .. .	234,370	253,647	273,934	206,981	159,112	551,174
Kerosine .. .. .	475,298	502,454	453,848	364,526	303,444	283,227
Gas oil .. .. .	912,781	836,643	796,766	930,847	742,500	758,374
Diesel oil .. .. .	669,809	986,382	914,698	566,978	312,209	173,013
Fuel oil .. .. .	2,193,394	2,878,306	2,575,167	2,775,373	3,234,918	3,980,864
Lubricating oil .. .. .	36,020	40,237	49,884	66,217	68,472	95,003
Paraffin wax .. .. .	2,829	4,155	4,164	2,645	4,075	4,350
Petroleum jelly .. .. .	1,271	705	667	875	502	567
Grease .. .. .	1,839	1,712	2,236	2,198	1,343	1,859
Asphalt and bitumen .. .. .	53,422	51,195	48,743	26,039	3,947	4,440
Natural asphalt .. .. .	20	75	317	3,433	83	152
Pakistan—						
Motor spirit .. .. .	n.a.	152,549	115,798	88,402	31,782	n.a.
Kerosine .. .. .	n.a.	270,638	238,542	157,995	1,026,625	n.a.
Diesel oil .. .. .	n.a.	1,374,823	769,334	827,844	1,039,519	n.a.
Fuel oil .. .. .	n.a.					
Lubricating oil .. .. .	n.a.	48,628	47,147	84,816	52,903	n.a.
Paraffin wax .. .. .	n.a.	1,384	1,107	1,155	2,293	n.a.
Asphalt .. .. .	n.a.	25,354	41,836	30,140	53,809	n.a.
Sabah—						
Aviation and motor spirits (a) .. .. .	13,752	16,872	22,646	23,974	21,584	20,762
Kerosine .. .. .	9,346	6,886	9,425	12,771	11,115	(d) 24,389
Diesel oil (a) .. .. .	26,067	27,184	35,590	44,314	49,016	54,665
Fuel oil (a) .. .. .	8,418	8,941	7,561	8,519	8,819	10,492
Lubricating oil .. .. .	3,799	3,441	3,640	3,292	3,323	4,691
Sarawak—						
Crude petroleum .. .. .	4,505,041	3,708,753	3,840,782	3,382,548	3,494,507	3,826,614
Aviation spirit .. .. .	878	693	594	226	1,921	4,062
Motor spirit .. .. .	11,601	12,220	13,174	14,489	15,447	22,005
Kerosine .. .. .	9,493	10,621	11,155	13,176	13,874	9,423
Aviation turbine fuel .. .. .	—	—	—	—	3,392	20,641
Gas oil .. .. .	12,798	16,259	15,830	18,342	28,777	21,981
Diesel oil .. .. .	2,814	3,527	4,635	4,319	7,130	22,288
Fuel oil .. .. .	4,255	5,971	6,225	(c) 8,895	310	999
Lubricating oil .. .. .	2,264	2,303	2,650	2,776	2,024	3,746
Paraffin wax .. .. .	14	14	16	12	11	5
Mineral jelly .. .. .	31	25	31	39	22	32
Natural gas (million cubic feet) .. .. .	2,693	2,421	2,473	1,952	n.a.	n.a.
Australia (b)—						
Crude petroleum .. .. .	11,405,405	12,684,109	13,373,103	14,887,129	15,287,562	16,198,642
Aviation spirit (a) .. .. .	62,793	38,643	48,004	46,889	63,736	68,573
Motor spirit .. .. .	561,470	601,646	522,474	723,805	704,752	688,752
White spirit .. .. .	49,108	55,807	46,806	49,014	49,279	25,130
Kerosine .. .. .	320,990	345,107	254,197	224,597	166,176	92,450
Aviation turbine fuel .. .. .	44,063	69,413	74,657	119,923	87,207	150,619
Lubricating oil .. .. .	198,343	207,231	183,764	235,195	183,843	119,769
Gas, diesel and fuel oils (a) .. .. .	75,102	55,229	271,150	359,396	512,360	970,144
Other oils .. .. .	7,001	40,978	9,209	11,795	10,725	7,776

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

(b) Years ended June 30 of that stated.

(c) Excess of re-exports.

(d) Including aviation turbine fuel.

## IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
<i>(cont.)</i>						
<b>Australia (cont.)—</b>						
Petroleum jelly ..	1,951	1,586	1,236	1,817	1,711	1,748
Paraffin wax ..	7,638	6,728	5,405	8,871	10,764	8,700
Natural asphalt ..	2,610	1,369	1,277	1,777	1,494	486
Bitumen and pitch ..	978	1,011	544	6,175	1,610	2,207
<b>Fiji—</b>						
Aviation spirit (a) ..	12,681	8,431	9,517	3,733	5,557	4,922
Motor spirit ..	19,439	20,302	19,202	21,256	27,865	26,944
Aviation turbine fuel (a) ..	21,239	35,297	32,460	32,028	82,202	106,242
Kerosine ..	11,719	7,089	6,768	7,502	9,552	10,995
Gas oil (a) ..	23,665	13,731	14,337	10,113	20,526	27,083
Diesel oil (a) ..	7,639	23,747	35,235	42,535	60,027	50,860
Fuel oil (a) ..	—	—	844	4,366	45,268	21,732
Lubricating oil ..	1,128	1,237	1,537	1,593	2,242	1,967
Greases ..	136	145	140	174	188	217
Bitumen ..	159	1,378	1,152	1,595	1,793	2,832
<b>New Guinea (c)—</b>						
Aviation and motor spirits ..	16,835	17,610	19,322	26,979	25,955	26,042
Kerosine ..	2,621	4,844	2,935	4,926	4,647	6,739
Fuel oils ..	14,718	23,329	21,049	27,587	26,122	30,703
Lubricating oil ..	1,029	1,110	1,115	1,261	1,342	1,892
<b>New Hebrides—</b>						
Aviation spirit ..	108	387	274	207	257	n.a.
Motor spirit ..	2,490	2,239	1,825	1,882	1,992	n.a.
Kerosine ..	915	966	1,218	1,049	593	n.a.
Other oils ..	3,781	5,113	5,847	5,756	6,469	n.a.
<b>New Zealand—</b>						
Crude petroleum ..	—	—	—	—	(c) 189,467	(c) 1,970,000
Aviation spirit (a) ..	34,612	33,847	960,435	(c) 980,930	c 1,021,616	(c) 512,476
Motor spirit ..	868,626	959,996		(c) 16,890	(c) 20,740	(c) 26,532
White spirit ..	12,284	12,205	46,338	(c) 47,763	(c) 59,242	(c) 84,904
Aviation turbine fuel ..	23,238	34,837	39,280	(c) 29,706	(c) 48,431	(c) 37,658
Kerosine ..	39,760	39,657	327,618	(c) 306,196	(c) 391,742	c 288,803
Gas oil ..	272,163	300,946	138,262	(c) 95,430	(c) 106,976	
Diesel oil (a) ..	160,919	168,860	306,157	(c) 366,137	(c) 379,428	(c) 47,516
Fuel oil (a) ..	230,533	226,312	46,712	(c) 39,990	(c) 41,071	
Lubricating oil (a) ..	44,286	43,044	1,767	(c) 1,327	(c) 2,198	n.a.
Transformer oil ..	1,586	930	240	(c) 346	(c) 353	n.a.
Petroleum jelly ..	244	158	2,141	(c) 1,677	(c) 1,738	(c) 2,155
Paraffin wax ..	1,283	1,390	n.a.	n.a.	(c) —	n.a.
Ozokerite ..	3	8	63,722	(c) 63,636	(c) 62,203	n.a.
Asphalt and bitumen ..	53,180	65,901	240	(c) 637	(c) 436	(c) 366
do. natural ..	709	610				
<b>Papua (c)—</b>						
Aviation and motor spirits ..	12,673	10,034	11,333	13,528	18,814	14,265
Kerosine ..	2,145	2,536	1,319	2,182	2,401	5,398
Fuel oil ..	7,426	5,972	6,588	6,781	7,947	18,111
Lubricating oil and grease ..	389	653	511	512	834	885
<b>Solomon Islands—</b>						
Aviation spirit ..	60	(b) 133	(b) 172	(b) 172	(b) 269	(b) 404
Motor spirit ..	713	1,244	1,100	899	1,020	1,218
Kerosine ..	518	602	543	591	708	771
Fuel oils ..	1,956	3,041	3,357	3,176	4,210	5,078
Lubricating oil ..	291	n.a.	119	145	189	300

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

(b) Including aviation turbine fuel.

(c) Years ended June 30 of that stated.

## IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>Western Samoa—</b>						
Motor spirit .. .. .	3,154	3,433	3,708	4,019	4,575	4,383
Kerosine .. .. .	1,038	771	781	910	1,000	1,021
Fuel oil .. .. .	956	1,251	1,035	1,854	1,961	2,675
Lubricating oil .. .. .	104	83	148	104	175	200
<b>Irish Republic—</b>						
Crude petroleum .. .. .	15,240,053	1,551,140	1,616,420	r 1,740,789	1,861,734	2,167,718
Aviation spirit (b) .. .. .	56,926	51,042	39,472	21,025	22,503	15,883
Motor spirit .. .. .	13,194	4,960	9,313	7,876	25,055	14,790
White spirit .. .. .	3,402	3,379	3,315	2,984	4,539	3,925
Kerosine .. .. .	74,998	104,185	70,656	r 88,594	83,867	77,865
Aviation turbine fuel (b) .. .. .	55,928	74,027	106,767	r 94,896	124,715	129,881
Gas and diesel oils (b) .. .. .	4,752	9,506	9,544	9,428	10,597	25,712
Fuel oil (b) .. .. .	138,240	159,347	193,884	r 254,397	277,448	394,628
Lubricating oil .. .. .	18,989	22,493	22,810	22,426	26,846	23,831
Greases .. .. .	233	246	246	241	352	267
Other oils .. .. .	2,233	3,069	3,423	r 3,050	2,341	3,188
Paraffin wax (c) .. .. .	2,396	2,634	2,111	2,783	1,930	1,817
Asphalt and bitumen .. .. .	69,505	68,756	87,755	3,244	5,089	2,657
do. natural .. .. .	—	136	152	r 7,711	3,198	12
<b>OTHER COUNTRIES</b>						
<b>Austria—</b>						
Crude petroleum .. .. .	4,416	266,994	618,378	811,662	775,394	651,219
Motor spirit .. .. .	291,571	408,912	519,430	514,900	468,158	459,211
White spirit .. .. .	6,182	6,864	6,933	6,409	6,589	7,013
Gas oil .. .. .	71,464	60,303	61,431	69,110	79,937	102,391
Fuel oil .. .. .	687,614	772,982	875,487	1,007,613	1,222,641	1,177,398
Lubricating oil, etc. .. .. .	34,099	37,696	38,103	43,412	48,044	49,104
Petroleum jelly .. .. .	212	269	280	272	293	295
Paraffin wax .. .. .	4,503	5,065	5,630	6,344	6,856	7,205
Ozokerite and ceresin (a) .. .. .	602	615	339	283	205	143
Natural asphalt .. .. .	826	1,089	1,695	2,392	1,921	1,817
Petroleum coke .. .. .	16,107	6,786	563	8,763	10,794	6,601
Bitumen, etc. .. .. .	53,879	82,926	82,807	106,379	112,647	131,762
<b>Belgium-Luxemburg</b>						
<b>E.U.—</b>						
Crude petroleum .. .. .	6,706,495	7,714,263	8,401,677	11,860,905	13,074,070	15,222,247
Motor spirit, etc. .. .. .	374,096	362,963	423,065	343,866	269,138	324,763
Kerosine .. .. .	23,731	25,563	40,460	22,002	28,607	16,981
Gas oil .. .. .	792,107	826,347	1,100,286	1,123,187	1,146,457	1,507,141
Fuel oil .. .. .	1,640,173	1,760,838	2,273,488	2,168,449	2,793,024	2,150,607
Lubricating oil .. .. .	155,437	169,413	196,278	205,704	220,214	208,609
Other heavy oils .. .. .	31,298	6,816	337	55,885	13,096	36,164
Petroleum jelly .. .. .	1,772	1,481	1,441	1,348	1,204	1,196
Paraffin wax .. .. .	5,851	5,908	6,507	6,711	8,007	7,067
Ozokerite and ceresin (a) .. .. .	250	335	145	163	109	318
Petroleum coke .. .. .	18,940	19,310	34,902	79,173	81,684	84,624
Natural asphalt .. .. .	2,492	2,693	2,747	4,264	4,972	3,399
Pitch .. .. .	23,445	13,527	18,521	25,515	26,967	33,139
<b>Denmark—</b>						
Crude petroleum .. .. .	5,350	232,875	1,263,488	1,719,782	2,924,240	3,296,634
Aviation spirit .. .. .	87,424	80,840	120,597	33,274	58,450	63,751
Motor spirit .. .. .	894,343	1,000,610	945,344	896,982	983,904	1,112,099
White spirit .. .. .	14,191	14,582	20,315	17,106	17,758	13,312
Kerosine .. .. .	252,393	298,157	298,983	391,897	150,999	144,582
Gas oil .. .. .	892,195	1,030,020	1,138,385	1,298,907	1,201,468	1,004,792
Diesel oil .. .. .	679,815	771,491	868,078	1,056,309	1,251,575	1,736,059
Fuel oil .. .. .	2,103,286	2,182,827	2,360,095	2,378,893	2,653,885	2,725,151
Lubricating oil .. .. .	64,177	70,133	80,244	66,115	85,701	80,994
Grease .. .. .	1,134	942	1,311	1,427	1,320	1,788

(a) Including montan wax.

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

(c) Including other mineral jellies and waxes.

## IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
<b>Denmark (cont.)—</b>						
Petroleum jelly .. ..	463	463	500	504	450	511
Ozokerite, etc. . . . .	884	863	1,351	1,093	1,164	799
Paraffin wax . . . . .	5,036	5,735	5,890	5,768	6,328	7,283
Natural asphalt. . . . .	1,358	959	1,752	1,976	2,473	1,434
Other asphalt . . . . .	69,249	100,884	111,639	108,790	149,529	177,851
<b>Faroe Islands—</b>						
Motor spirit . . . . .	1,347	2,402	2,058	2,578	2,302	2,950
Kerosine . . . . .	733	2,751	2,687	2,080	3,398	3,860
Fuel oils . . . . .	14,383	28,354	31,485	31,553	30,280	34,421
Lubricating oil, etc. . . . .	468	317	476	492	530	615
<b>Finland—</b>						
Crude petroleum . . . . .	1,118,972	1,361,407	1,488,311	1,524,865	3,040,341	2,271,436
Motor spirit . . . . .	44,914	32,301	16,506	18,911	12,210	26,457
White spirit . . . . .	3,585	4,733	6,145	5,255	5,189	8,194
Kerosine . . . . .	29,954	26,923	24,392	26,507	17,300	23,183
do. Power . . . . .	1,852	6	1	6	35	2
Fuel oil . . . . .	1,418,626	1,459,568	1,863,309	1,913,954	2,192,472	3,131,687
Lubricating oil . . . . .	36,069	45,170	48,796	46,839	59,540	64,440
Petroleum jelly . . . . .	381	369	511	470	330	337
Paraffin wax . . . . .	4,184	4,862	5,065	6,912	7,157	8,553
Asphalt, etc. . . . .	8,219	17,431	16,744	14,600	18,446	17,720
<b>France—</b>						
Crude petroleum . . . . .	30,531,645	34,463,365	36,573,573	42,574,849	48,496,711	57,631,540
Aviation spirit . . . . .	131,706	134,094	112,344	102,261	95,643	(a) 43,283
Motor spirit . . . . .	679,668	572,603	636,937	586,656	499,056	(a) 422,244
White spirit . . . . .	2,157	3,542	3,844	8,913	8,725	(a) 10,776
Kerosine . . . . .	5,836	8,154	3,040	10,028	5,227	(a) 6,555
Lubricating oil . . . . .	14,717	10,309	18,453	19,269	25,898	(a) 28,521
Fuel oil . . . . .	1,229,110	1,108,191	1,588,227	2,529,976	2,588,116	(a) 2,259,217
Gas oil . . . . .	247,630	221,720	212,002	426,176	632,382	(a) 516,782
Petroleum coke . . . . .	92,099	103,885	130,187	336,418	386,727	196,674
Paraffin wax . . . . .	2,911	3,834	4,346	5,342	4,379	5,097
Ozokerite and ceresin . . . . .	5,097	7,266	8,676	8,679	9,097	130
Petroleum jelly . . . . .	755	686	671	696	706	564
Natural asphalt and bitumen . . . . .	1,635	1,925	2,066	2,153	1,629	2,136
Bitumen . . . . .	629	727	305	184	313	656
Natural gas ( <i>million cu. ft.</i> ) . . . . .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	11
<b>Germany (Federal)—</b>						
Crude petroleum . . . . .	22,692,143	28,830,783	32,677,499	39,444,856	50,466,543	58,135,270
Aviation spirit . . . . .	158,455	154,515	164,174	159,415	177,076	} 990,978
Motor spirit . . . . .	414,173	359,996	398,946	424,246	646,571	
White spirit . . . . .	4,380	5,589	7,367	12,354	21,990	25,037
Kerosine . . . . .	101,974	74,128	13,015	20,092	32,613	15,276
Aviation turbine fuel . . . . .	131,499	97,530	166,473	122,150	190,925	216,711
Gas and diesel oil . . . . .	880,516	717,760	1,083,065	1,419,579	2,137,570	2,475,567
Fuel oil . . . . .	4,375,587	4,635,838	9,237,703	10,267,190	8,882,234	10,019,372
Lubricating oil, etc. . . . .	149,286	170,688	215,742	175,330	242,406	189,533
Petroleum jelly . . . . .	1,839	1,691	1,936	1,388	1,741	1,564
Paraffin wax . . . . .	12,827	14,237	24,244	20,959	24,839	21,083
Ozokerite, etc. . . . .	725	163	27	5	3	—
Natural asphalt and bitumen . . . . .	10,946	11,625	14,079	16,717	18,118	16,437
Bitumen . . . . .	234,816	347,114	459,162	845,838	671,130	488,400
Petroleum coke . . . . .	63,728	98,658	120,920	165,580	194,787	278,803
<b>Germany (East)—</b>						
Crude petroleum . . . . .	1,910,000	2,234,000	2,550,000	3,113,000	4,193,000	5,051,000
<b>Greece—</b>						
Crude petroleum . . . . .	1,631,356	1,576,603	1,437,323	2,129,000	1,678,770	2,548,843
Aviation spirit . . . . .	382	11,981	13,587	11,295	11,690	11,927
Motor spirit . . . . .	13,381	1,678	13,029	16,175	15,202	<i>n.a.</i>

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



## IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
<b>Greece (cont.)—</b>						
White spirit .. ..	806	869	1,163	1,440	1,866	2,476
Kerosine .. ..	3,073	94	2,868	r 503	1,359	3,976
Fuel oil and diesel oil ..	605,065	747,423	1,094,241	1,385,879	1,220,547	1,978,947
Lubricating oil, etc. ..	19,952	22,054	23,358	26,809	31,839	37,746
Petroleum jelly .. ..	87	90	97	101	107	130
Paraffin wax .. ..	195	246	382	427	448	332
Asphalt and bitumen ..	2,132	680	1,628	7,223	16,083	6,605
<b>Hungary—</b>						
Crude petroleum .. ..	1,432,558	1,389,327	1,515,703	1,799,056	1,994,252	2,215,000
Motor spirit .. ..	10,903	56,137	61,602	88,136	120,656	106,000
Kerosine .. ..	—	—	—	—	29,320	—
Gas oil .. ..	19,716	89,243	118,676	177,466	221,783	157,000
Fuel oil .. ..	68,720	81,897	65,772	133,221	201,134	100,000
<b>Iceland—</b>						
Aviation spirit .. ..	12,557	10,848	12,118	12,857	14,991	15,265
Motor spirit .. ..	42,636	38,341	43,910	47,810	42,154	47,247
White spirit .. ..	464	466	470	491	833	15
Kerosine .. ..	8,462	7,705	1,488	1,272	3,868	490
Gas oil and fuel oil ..	308,359	278,895	306,887	343,875	346,170	374,813
Lubricating oil .. ..	4,406	4,074	4,794	} 4,267	4,380	4,707
Greases .. ..	145	137	184		188	203
Paraffin wax .. ..	132	145	181	18	6	16
Petroleum jelly .. ..	9	14	4	885	416	827
Asphalt .. ..	1,215	832	1,527	885	416	827
<b>Italy—</b>						
Crude petroleum .. ..	28,336,147	32,803,729	39,328,656	45,366,105	54,103,961	66,225,989
Aviation and motor spirits .. ..	88,783	114,214	122,124	118,775	156,957	279,956
Kerosine .. ..	206	741	1,575	3,136	10,129	6,647
Gas oil .. ..	1,175	7,379	5,309	35,701	} 1,793,317	1,906,575
Fuel oil .. ..	1,470,520	1,964,600	2,821,695	3,102,497		1,906,575
Lubricating oil .. ..	78,552	108,141	120,030	155,336	144,062	93,198
Petroleum jelly .. ..	1,573	1,716	2,053	2,140	1,847	1,788
Paraffin wax .. ..	16,689	20,985	25,102	25,197	27,955	12,864
Pitch .. ..	5,999	180	690	200	1,895	330
Petroleum coke .. ..	100,440	132,035	151,873	191,438	224,759	220,682
Ozokerite and ceresin ..	485	666	328	280	285	n.a.
Natural asphalt and bitumen ..	1,919	2,814	2,433	2,496	2,667	2,541
<b>Netherlands—</b>						
Crude petroleum .. ..	16,227,967	18,980,919	19,613,218	20,560,260	23,067,690	25,962,556
Motor spirit, etc. .. ..	128,812	113,062	109,550	120,656	277,575	389,719
Kerosine .. ..	180,412	209,526	235,305	345,505	369,995	374,078
Gas oil .. ..	1,286,182	1,014,940	989,196	1,232,137	1,365,985	1,280,555
Fuel oil .. ..	3,329,216	3,578,248	3,565,012	2,936,625	3,688,683	4,017,995
Lubricating oil .. ..	154,204	151,793	144,166	157,096	175,801	123,483
Petroleum jelly .. ..	2,711	2,291	2,559	2,734	2,570	2,401
Paraffin wax .. ..	29,839	23,588	17,966	16,939	25,577	16,059
Ozokerite and ceresin (a)	178	155	156	128	166	196
Pitch .. ..	24,246	36,089	60,569	92,933	115,106	116,099
Petroleum coke .. ..	16,785	10,949	13,619	39,033	51,592	53,351
Natural asphalt .. ..	1,303	1,413	1,738	1,417	1,336	1,494
<b>Norway—</b>						
Crude petroleum .. ..	216,795	1,711,949	2,317,740	2,495,638	2,655,006	2,710,089
Aviation spirit .. ..	22,593	24,964	24,600	32,381	36,874	45,340
Motor spirit .. ..	429,113	305,700	432,831	r 406,661	399,795	444,463
White spirit .. ..	14,622	17,436	18,923	16,372	19,013	17,254
Kerosine .. ..	86,508	80,929	89,198	116,888	111,214	134,467
Aviation turbine fuel ..	97,134	104,375	70,208	76,359	93,579	67,222
Diesel oil .. ..	332,888	321,783	269,015	239,655	295,300	295,781
Gas oil .. ..	877,440	563,515	715,108	813,741	777,961	855,565

(a) Including montan wax.

## IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
<b>Norway (cont.)—</b>						
Fuel oil .. .. .	1,498,596	1,222,330	1,119,421	r 1,273,368	1,498,522	1,156,662
Lubricating oil .. .. .	35,913	36,838	37,442	39,471	44,548	21,157
Petroleum jelly .. .. .	172	221	306	273	299	339
Paraffin wax .. .. .	2,306	2,684	2,541	2,735	3,149	4,020
Greases .. .. .	1,669	1,788	1,633	1,690	1,791	2,024
Pitch .. .. .	10,121	17,325	11,064	30,929	41,908	51,892
Petroleum coke .. .. .	92,878	96,349	124,572	113,108	144,290	173,943
Asphalt, etc. .. .. .	15,947	13,645	14,769	425	1,889	1,524
<b>Poland—</b>						
Crude petroleum .. .. .	702,600	727,900	1,025,000	1,393,200	1,680,900	3,164,788
Motor spirit .. .. .	839,700	1,029,900	n.a.	1,090,800	} 2,883,060	} 2,212,454
Kerosine .. .. .	52,300	45,500	n.a.	51,800		
Fuel oils .. .. .	750,300	972,600	n.a.	1,454,700		
Lubricating oil .. .. .	52,913	66,506	n.a.	81,178		
Paraffin wax .. .. .	10,488	14,981	n.a.	16,640		
Asphalt .. .. .	31,887	85,464	n.a.	68,991		
Petroleum coke .. .. .	15,446	22,674	n.a.	22,364		
<b>Portugal—</b>						
Crude petroleum .. .. .	1,280,678	1,285,538	1,312,884	1,474,027	1,495,275	1,689,700
Motor spirit .. .. .	18,882	22,212	23,285	21,628	51,366	89,855
Kerosine .. .. .	32,520	24,137	39,699	19,426	18,446	11,548
Aviation turbine fuel .. .. .	—	—	5	674	4,551	11,348
Gas oil and diesel oil .. .. .	295,511	296,801	293,974	322,393	316,220	282,578
Fuel oil .. .. .	210,332	247,877	275,512	284,625	266,167	343,815
Lubricating oil .. .. .	30,467	34,184	32,363	34,796	39,059	45,843
Petroleum jelly .. .. .	113	142	130	153	118	140
Paraffin wax .. .. .	2,889	3,512	2,818	2,832	3,582	3,134
Ozokerite and ceresin .. .. .	106	95	66	49	167	67
Bitumen .. .. .	(a) 29,712	(a) 37,046	44,508	39,084	40,960	25,475
Natural asphalt .. .. .	11,561	7,097	9,569	6,108	615	3,015
<b>Spain—</b>						
Crude petroleum .. .. .	3,941,274	4,653,518	5,425,060	5,798,073	7,392,403	7,941,114
Motor spirit (b) .. .. .	56,087	80,149	83,164	37,715	40,520	50,406
Kerosine (b) .. .. .	34,092	17,315	28,741	9,075	16,798	3,924
Diesel oil (b) .. .. .	143,599	115,769	45,351	r 40,085	27,535	3,880
Lubricating oil (b) .. .. .	32,097	11,082	39,333	6,779	32,902	12,593
Fuel oil .. (b) .. .. .	807	9,818	9,210	34,390	28,241	132,774
Petroleum jelly (b) .. .. .	298	732	931	850	1,400	1,274
Paraffin wax (b) .. .. .	1,625	1,535	735	r 1,113	4,326	3,261
Asphalt (b) .. .. .	13,846	713	536	1,062	834	1,407
<b>Sweden—</b>						
Crude petroleum .. .. .	2,604,355	2,551,145	2,421,148	2,633,817	3,440,800	3,665,812
Motor spirit, etc. .. .. .	1,505,209	1,540,238	1,832,333	2,696,592	3,001,259	2,378,378
White spirit .. .. .	56,021	47,305	50,000	69,802	84,815	68,078
Kerosine .. .. .	317,021	289,111	318,000	445,298	435,893	348,161
Fuel oil and gas oil .. .. .	8,406,037	8,590,473	9,622,528	11,941,440	12,779,669	12,078,102
Lubricating oil and grease .. .. .	117,070	114,944	130,866	123,743	151,360	154,603
Petroleum jelly .. .. .	764	647	810	858	979	836
Paraffin wax .. .. .	7,118	7,179	7,846	7,631	7,956	7,080
Ozokerite, ceresin, etc. .. .. .	1,137	1,421	1,521	1,925	2,129	1,997
Asphalt .. .. .	882	507	1,067	683	920	1,021
Pitch .. .. .	7,282	7,018	8,424	9,441	9,545	10,473
Petroleum coke .. .. .	4,698	12,849	9,947	12,700	10,053	24,824
<b>Switzerland—</b>						
Crude petroleum .. .. .	n.a.	n.a.	4,202	353,368	824,788	1,190,104
Motor spirit .. .. .	974,070	1,132,780	1,032,682	1,253,188	1,274,386	1,313,958
White spirit .. .. .	10,841	10,776	8,861	7,796	8,501	9,490
Kerosine .. .. .	15,425	15,424	16,425	19,844	16,235	15,954
Gas and diesel oils .. .. .	369,415	448,601	298,718	494,894	544,227	583,021
Fuel oil .. .. .	2,318,463	2,398,116	3,302,971	4,192,766	3,905,578	4,617,356

(a) Including petroleum coke.

(b) Excluding imports from Canary Islands.

## IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Switzerland <i>(cont.)</i> —						
Lubricating oil and grease .. .. .	57,858	66,755	68,933	77,762	73,660	73,345
Petroleum jelly .. .. .	702	805	830	702	742	829
Paraffin wax and ceresin .. .. .	4,998	5,149	5,660	6,090	6,720	7,413
Asphalt and bitumen .. .. .	96,174	128,279	147,039	191,804	215,752	230,619
Petroleum coke .. .. .	14,124	27,052	35,954	65,173	49,363	53,550
U.S.S.R.—						
Crude petroleum .. .. .	1,147,400	873,600	488,000	535,000	—	—
Motor spirit .. .. .	2,139,900	1,752,000	1,556,300	1,510,800	1,363,800	1,202,100
Kerosine .. .. .	300,400	268,500	240,200	200,400	148,800	166,300
Diesel oil .. .. .	336,700	261,800	223,100	237,700	226,500	223,000
Fuel oil .. .. .	47,900	47,000	42,900	50,200	51,700	49,600
Lubricating oil and grease .. .. .	120,800	143,700	115,300	144,500	152,100	146,400
Paraffin wax .. .. .	32,200	38,900	33,300	26,500	17,500	11,800
Bitumen .. .. .	199,400	177,600	61,600	67,000	71,700	65,100
Yugoslavia—						
Crude petroleum .. .. .	428,107	282,657	735,070	765,773	748,243	1,089,520
Aviation spirit .. .. .	23,625	10,370	16,564	10,466	23,186	27,191
Motor spirit .. .. .	707	103	—	1	—	1
Kerosine .. .. .	6,831	9,402	4,632	4,509	5,549	2,527
Aviation turbine fuel .. .. .	5	—	—	—	4	—
Fuel oils .. .. .	126,214	123,460	229,432	137,381	258,315	134,896
Lubricating oil .. .. .	17,996	23,381	19,761	21,671	49,722	14,070
Greases .. .. .	321	317	194	334	639	160
Paraffin wax .. .. .	1,646	1,786	2,682	2,755	3,856	5,035
Petroleum jelly .. .. .	524	444	571	648	691	273
Ozokerite and ceresin .. .. .	184	160	224	327	570	489
Petroleum coke .. .. .	2,046	15,698	13,653	15,255	18,553	21,150
Pitch .. .. .	768	5,022	1,820	21,240	76,349	59,823
Algeria—						
Crude petroleum .. .. .	11,116	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Aviation spirit .. .. .	5,734	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Motor spirit .. .. .	311,926	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
White spirit .. .. .	3,307	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Kerosine .. .. .	93,976	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Gas oil .. .. .	373,813	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Fuel oil and diesel oil .. .. .	553,828	451,500	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Lubricating oil .. .. .	29,046	28,500	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Bitumen, etc. .. .. .	88,048	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Paraffin wax .. .. .	607	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Petroleum jelly .. .. .	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ozokerite and ceresin .. .. .	12	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Natural asphalt, etc. .. .. .	1,215	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Mastic asphalt .. .. .	4,877	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Angola—						
Crude petroleum .. .. .	116,192	119,691	—	—	—	—
Motor spirit .. .. .	23,252	17,413	9,246	10,375	10,140	6,450
Kerosine .. .. .	10,046	10,000	9,579	6,834	6,019	4,705
Gas oil and fuel oil .. .. .	58,626	49,044	40,777	15,525	11,960	21,720
Lubricating oil .. .. .	7,510	7,360	7,818	9,680	9,463	11,168
Paraffin wax .. .. .	19	59	24	61	32	73
Petroleum jelly .. .. .	35	29	27	34	41	33
Asphalt and bitumen .. .. .	<i>n.a.</i>	744	48	4,078	34	22
Cameroun—						
Motor spirit, etc. .. .. .	53,446	50,601	50,684	48,792	58,358	48,895
Kerosine .. .. .	16,925	26,062	24,327	26,760	30,008	25,189
Gas and fuel oil .. .. .	23,115	27,654	31,584	34,907	44,640	39,710
Lubricating oil .. .. .	2,695	3,596	3,939	4,107	8,171	4,942
Canary Islands—						
Crude petroleum .. .. .	2,447,564	2,658,809	4,100,273	4,554,742	5,044,962	5,243,457
Motor spirit .. .. .	10,470	14,860	37,897	—	16,157	21,248
Diesel (a) .. .. .	27,155	41,762	18,361	6,312	—	—
Fuel oil (a) .. .. .	9,021	—	22,637	—	—	—

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

## IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Cape Verde Islands—						
Motor spirit .. ..	562	551	783	599	629	958
Kerosine .. ..	1,472	1,750	1,610	1,988	2,212	2,360
Fuel oil (b) .. ..	328,451	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Central African Republic—						
Aviation spirit .. ..					88	3,499
Motor spirit .. ..					11,414	12,941
Kerosine .. ..	(c)	(c)	(c)	(c)	4,202	4,760
Gas oil .. ..					8,872	10,855
Diesel oil .. ..					835	1,007
Ceuta— (a)						
Kerosine .. ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	—	84	—
Diesel (b) .. ..	125,279	111,055	130,299	121,271	47,924	37,639
Fuel oil (b) .. ..	268,213	267,007	303,399	292,915	44,762	62,477
Lubricating oil .. ..	3,487	3,811	367	3,523	3,212	3,632
Congo (Republic of)—						
Aviation spirit .. ..					10,635	3,344
Motor spirit .. ..					19,519	15,843
Kerosine .. ..	(c)	(c)	(c)	(c)	21,572	7,889
Gas oil .. ..					39,276	39,766
Fuel oil .. ..					4,273	7,615
Lubricating oil .. ..					3,498	3,786
Dahomey—						
Aviation spirit .. ..	660	373	832	<i>n.a.</i>	478	492
Motor spirit .. ..	20,728	14,140	13,335	<i>n.a.</i>	15,140	16,722
Kerosine .. ..	15,250	12,855	12,726	<i>n.a.</i>	13,664	13,398
Gas oil .. ..	14,335	12,409	14,795	<i>n.a.</i>	15,124	16,211
Fuel oils .. ..	550	837	535	<i>n.a.</i>	729	1,145
Lubricating oil .. ..	1,060	807	1,146	<i>n.a.</i>	1,264	1,398
Egypt—						
Crude petroleum .. ..	2,044,509	2,741,198	3,650,185	4,254,450	4,674,980	3,918,000
Motor spirit .. ..	12,941	9,821	5,529	23,149	8,743	11,059
White spirit .. ..	—	10	29	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Kerosine .. ..	415,291	330,537	312,931	138,623	21,713	35,367
Fuel oil .. ..	378,437	100,229	81,696	106,839	88,800	<i>n.a.</i>
Gas oil .. ..	183,625	149,218	156,576	63,206	34,677	11,378
Diesel oil .. ..	35,798	15,156	17,687	3,149	12,290	2,684
Lubricating oil .. ..	39,935	52,201	34,880	65,497	57,036	44,985
Petroleum jelly .. ..	200	324	169	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Paraffin wax .. ..	1,992	1,104	151	<i>n.a.</i>	<i>n.a.</i>	3,240
Ozokerite and ceresin .. ..	112	100				
Asphalt and bitumen .. ..	602	23	2,041	2,365	2	<i>n.a.</i>
Equatorial African Community—						
Aviation spirit .. ..	29,008	26,411	23,616	<i>n.a.</i>	(d)	(d)
Motor spirit .. ..	49,538	50,181	56,702	<i>n.a.</i>	(d)	(d)
Kerosine .. ..	16,283	14,130	12,158	<i>n.a.</i>	(d)	(d)
Gas oil .. ..	72,698	71,450	73,760	<i>n.a.</i>	(d)	(d)
Fuel oil .. ..	4,540	5,789	6,321	<i>n.a.</i>	(d)	(d)
Lubricating oil, etc. .. ..	6,616	7,502	6,691	<i>n.a.</i>	(d)	(d)
Ethiopia (e)—						
Aviation spirit .. ..	6,473	9,346	<i>n.a.</i>	1,684	6,489	<i>n.a.</i>
Motor spirit .. ..	75,495	79,534	<i>n.a.</i>	171,223	90,942	<i>n.a.</i>
Kerosine .. ..	3,903	4,017	<i>n.a.</i>	3,995	3,758	<i>n.a.</i>
Gas and fuel oils .. ..	22,481	28,644	<i>n.a.</i>	13,528	21,420	<i>n.a.</i>
Lubricating oil and grease .. ..	5,686	5,396	<i>n.a.</i>	3,864	4,368	<i>n.a.</i>

(a) Excluding imports from Spain and Canary Islands.

(e) Years ended September 10.

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

(c) Included in Equatorial African Community.

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

## IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
French Somaliland—						
Motor spirit .. ..	2,176	2,645	3,015	4,557	4,651	} 16,250
Kerosine .. ..	689	777	868	1,050	1,493	
Fuel oil, etc. .. ..	4,682	5,013	6,055	6,772	8,928	
Lubricating oil .. ..	295	400	467	457	585	
Gabon—						
Aviation spirit .. ..	} (a)	(a)	(a)	(a)	3,313	13,275
Motor spirit .. ..					11,793	3,080
Kerosine .. ..					4,621	4,236
Gas oil .. ..					35,620	40,765
Fuel oil .. ..					142	207
Lubricating oil .. ..					3,142	2,825
Ivory Coast—						
Aviation spirit .. ..	3,745	859	654	1,449	1,222	1,938
Motor spirit .. ..	59,426	90,757	88,203	86,259	107,574	98,599
Kerosine .. ..	26,047	28,396	28,171	28,983	32,951	30,125
Gas oil .. ..	29,573	35,251	42,730	52,088	69,090	66,497
Fuel oils .. ..	11,998	20,808	27,311	29,957	51,722	41,221
Lubricating oil .. ..	5,907	5,731	6,766	8,111	10,541	9,832
Liberia—						
Motor spirit .. ..	19,996	24,993	18,241	18,000	23,000	n.a.
Kerosine .. ..	6,394	4,139	8,228	8,300	8,100	n.a.
Diesel oil, etc. .. ..	27,130	26,884	57,398	58,000	58,000	n.a.
Lubricating oil .. ..	1,461	2,328	4,135	4,000	4,500	n.a.
Libya—						
Motor spirit .. ..	61,523	52,120	65,623	73,902	96,029	100,428
Kerosine, etc. .. ..	15,240	18,151	22,807	29,145	37,615	41,272
Gas oil and diesel oil .. ..	66,543	88,822	88,716	103,779	158,373	151,608
Fuel oil .. ..	43,658	6,731	6,731	7,208	24,237	32,674
Lubricating oil, etc. .. ..	6,890	6,047	6,946	8,260	12,170	9,245
Malagasy Republic—						
Aviation spirit .. ..	5,219	5,611	4,492	4,815	5,985	n.a.
Motor spirit .. ..	51,522	51,533	54,354	55,918	60,557	n.a.
Kerosine .. ..	17,236	16,972	17,710	18,167	20,236	n.a.
Gas oil .. ..	41,495	38,832	46,105	50,385	50,523	n.a.
Fuel oils .. ..	656	1,093	1,207	1,482	1,357	n.a.
Lubricating oil .. ..	5,575	3,985	5,754	6,348	6,372	n.a.
Road oil, etc. .. ..	4,104	5,289	3,520	4,759	6,063	n.a.
Paraffin wax .. ..	22	117	761	665	1,427	n.a.
Petroleum jelly .. ..	17	17	21	29	16	n.a.
Asphalt and bitumen .. ..	107	34	18	427	347	n.a.
Mali—						
Aviation spirit .. ..	n.a.	2,195	3,048	5,702	} 69,142	1,874
Motor spirit .. ..	n.a.	17,058	21,985	27,028		31,326
Kerosine .. ..	n.a.	5,276	6,362	10,034		10,132
Gas and fuel oil .. ..	n.a.	16,047	15,450	18,122		23,651
Lubricating oil .. ..	n.a.	1,531	2,306	2,378		2,149
Morocco—						
Crude petroleum .. ..	88,228	127,134	119,293	451,162	1,094,507	1,103,106
Aviation spirit .. ..	10,488	13,095	11,331	6,084	3,873	4,520
Motor spirit .. ..	171,535	152,506	95,003	2,603	1,304	1,811
White spirit .. ..	1,581	1,435	1,422	1,739	1,444	2,354
Kerosine .. ..	46,618	45,724	28,057	17,290	21,883	21,135
Gas oil .. ..	165,749	199,121	70,981	6,846	9,185	6,559
Fuel oil .. ..	209,203	207,343	81,777	9,704	4,827	3,434
Lubricating oil, etc. .. ..	18,403	19,052	17,072	17,673	13,866	15,443
Paraffin wax .. ..	5,267	5,325	8,390	5,193	7,522	5,119
Asphalt, bitumen, etc. . .	23,428	24,444	25,566	27,345	33,047	37,082
Mozambique—						
Motor spirit .. ..	39,349	36,760	18,516	10,421	27,488	22,067
Kerosine .. ..	19,131	20,357	16,523	15,878	25,168	18,603
Fuel oil .. ..	81,933	75,461	31,059	18,374	50,402	40,319

(a) Included in Equatorial African Community.

## IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
<b>Mozambique (cont.)—</b>						
Lubricating oil .. .. .	7,175	7,093	6,130	6,487	9,243	8,848
Paraffin wax .. .. .	69	80	61	79	76	35
Petroleum jelly .. .. .	56	38	20	43	44	8
Asphalt and bitumen (a)	4,716	5,269	6,061	4,303	8,014	6,435
<b>Niger—</b>						
Aviation spirit .. .. .	<i>n.a.</i>	975	2,987	1,336	1,757	1,292
Motor spirit .. .. .	<i>n.a.</i>	8,964	4,954	11,091	14,366	11,759
Kerosine .. .. .	<i>n.a.</i>	2,361	3,001	3,634	4,747	4,532
Gas oil .. .. .	<i>n.a.</i>	4,457	5,008	9,659	<i>n.a.</i>	2,704
Fuel oils .. .. .	<i>n.a.</i>	335	1,767	2,485	3,251	3,961
Lubricating oil .. .. .	<i>n.a.</i>	334	983	530	1,077	1,062
<b>Reunion—</b>						
Motor spirit, etc. .. .. .	15,139	16,900	18,934	22,293	25,549	27,635
Kerosine .. .. .	2,243	2,538	2,683	3,866	4,490	6,508
Fuel oil, etc. .. .. .	6,577	7,895	6,469	8,732	9,153	11,470
Lubricating oil .. .. .	1,092	1,033	1,209	2,360	1,083	1,303
<b>S. Tome and Principe—</b>						
Motor spirit .. .. .	1,007	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Kerosine .. .. .	530	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Fuel oil .. .. .	831	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
<b>Senegal—</b>						
Aviation spirit .. .. .	8,779	5,878	3,928	5,563	4,696	2,717
Motor spirit .. .. .	72,966	66,797	71,821	65,401	37,865	42,776
Kerosine .. .. .	13,668	11,683	12,324	18,276	6,043	6,937
Gas oil .. .. .	15,845	17,304	20,209	16,767	9,775	10,849
Fuel oils .. .. .	88,420	116,451	140,973	146,546	51,348	77,247
Lubricating oil .. .. .	7,878	3,547	4,231	3,645	4,022	4,151
<b>Somali Republic (c)—</b>						
Aviation and motor						
spirit .. .. .	4,989	5,816	6,470	5,212	6,052	3,849
Kerosine .. .. .	849	1,106	942	959	1,114	970
Gas oil .. .. .	2,263	2,775	3,110	2,927	4,437	3,586
Lubricating oil .. .. .	204	241	260	202	454	133
<b>South Africa—</b>						
Crude petroleum .. .. .	1,368,412	1,583,306	1,726,547	2,267,049	(e)5,105,000	(e)4,953,000
Motor spirit (b) .. .. .	1,124,744	1,173,318	1,191,633	1,056,403	(d) 656,839	(d) 695,869
Other spirit .. .. .	14,203	16,449	17,977	19,184	(d) 6	<i>n.a.</i>
White spirit .. .. .	29,578	30,355	29,803	33,111	36,979	41,001
Kerosine .. .. .	403,706	391,749	370,520	381,895	(d) 411,669	(d) 333,229
Gas oil (b) .. .. .	532,016	593,715	621,562	581,604	} (d)357,188	(d) 462,822
Diesel oil (b) .. .. .	33,156	4,840	23,535	23,688		
Fuel oil (b) .. .. .	164,933	208,296	228,396	128,292	(d) 3,858	(d) 40,692
Lubricating oil .. .. .	104,232	119,008	143,376	101,208	(d) 149,892	(d) 185,220
Transformer oil .. .. .	3,769	5,192	4,069	5,619	<i>n.a.</i>	<i>n.a.</i>
Road oil .. .. .	2,144	2,261	346	9	<i>n.a.</i>	<i>n.a.</i>
Other oils .. .. .	17,832	4,004	21,990	25,209	(d) 129,604	<i>n.a.</i>
Paraffin wax .. .. .	15,949	9,769	11,873	13,878	18,724	10,821
Asphalt and bitumen .. .. .	39,169	33,633	31,014	32,208	6,087	4,961
Petroleum jelly .. .. .	4,537	2,645	2,976	3,434	3,471	3,924
<b>Sudan—</b>						
Aviation spirit (b) .. .. .	15,684	12,789	10,169	8,613	10,463	5,740
Motor spirit .. .. .	71,176	74,105	70,266	81,302	76,849	42,596
Kerosine .. .. .	52,069	51,684	60,014	68,468	64,173	31,126
Gas oil .. .. .	75,324	99,074	111,677	141,880	113,564	80,413
Diesel oil .. .. .	27,862	21,786	23,767	34,321	60,737	10,491
Fuel oil .. .. .	189,417	176,403	195,998	195,514	158,034	44,039
Lubricating oil, etc. .. .. .	7,722	11,339	12,085	13,471	11,902	11,306
Petroleum jelly .. .. .	4	9	8	10	19	38
Paraffin wax .. .. .	14	10	30	172	36	76
Asphalt and bitumen .. .. .	3,162	6,799	8,631	8,040	7,455	3,847

(a) Including coal tar and pitch.

(b) Including imports for bunkering purposes. See exports. (c) Former British Protectorate only.

(d) Owing to reclassification not strictly comparable with earlier years. (e) Including partly-refined.

## IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Togo—						
Motor spirit .. ..	8,231	8,008	8,070	7,282	7,868	8,321
Kerosine .. ..	6,187	6,622	7,732	7,627	8,490	8,605
Fuel oil .. ..	8,314	14,450	13,421	20,526	25,251	26,514
Lubricating oil .. ..	623	1,020	526	776	1,155	1,084
Tunisia—						
Aviation spirit .. ..	74,463	68,841	73,639	75,979	18,070	1,782
Motor spirit .. ..						
White spirit .. ..	200	140	323	441	577	566
Kerosine .. ..	43,337	45,517	48,130	51,560	18,324	2,127
Fuel oil .. ..	221,418	233,761	236,571	262,607	68,393	<i>n.a.</i>
Gas oil .. ..	99,720	109,910	119,112	136,013	25,164	1,920
Lubricating oil .. ..	8,899	13,500	8,869	10,864	12,718	10,677
Petroleum jelly .. ..	51	12	19	1	39	44
Paraffin wax .. ..	68	83	58	171	<i>n.a.</i>	180
Upper Volta—						
Aviation spirit .. ..	1,113	1,539	1,009	564	<i>n.a.</i>	<i>n.a.</i>
Motor spirit .. ..	7,266	13,111	10,774	11,816	<i>n.a.</i>	<i>n.a.</i>
Kerosine .. ..	3,370	5,664	4,918	4,681	<i>n.a.</i>	<i>n.a.</i>
Gas oil .. ..	2,716	5,976	5,345	5,362	<i>n.a.</i>	<i>n.a.</i>
Fuel oils .. ..	578	3,093	5,452	5,932	<i>n.a.</i>	<i>n.a.</i>
Lubricating oil .. ..	51	861	1,365	1,061	<i>n.a.</i>	<i>n.a.</i>
Costa Rica—						
Motor spirit .. ..	72,261	53,816	57,013	62,019	61,982	65,992
Kerosine .. ..	13,471	9,901	13,054	13,398	12,143	14,214
Diesel oil, etc. .. ..	74,094	65,124	91,641	99,964	136,016	170,828
Fuel oil .. ..	20,239	27,049	12,308	15,070	—	—
Lubricating oil .. ..	4,788	5,372	7,676	10,196	10,601	10,318
Grease .. ..	296	244	337	266	293	364
Petroleum jelly .. ..	99	129	117	125	128	198
Paraffin wax .. ..	1,417	1,328	1,179	1,591	1,634	1,751
Asphalt .. ..	4,735	4,221	4,828	2,841	7,119	10,033
Dominican Republic—						
Aviation spirit .. ..	5,500	3,889	4,488	—	3,000	<i>n.a.</i>
Motor spirit .. ..	78,759	72,402	66,971	98,000	140,000	<i>n.a.</i>
Kerosine .. ..	14,562	15,366	16,035	19,000	23,000	<i>n.a.</i>
Diesel oil .. ..	60,851	74,204	63,291	50,000	58,000	<i>n.a.</i>
Fuel oil .. ..	147,975	126,152	<i>n.a.</i>	195,000	235,000	<i>n.a.</i>
Lubricating oil, etc. .. ..	7,736	7,038	7,135	7,000	7,000	<i>n.a.</i>
Paraffin wax .. ..	1,092	929	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Asphalt .. ..	14,878	9,005	10,627	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
French West Indies—						
Guadeloupe—						
Motor spirit, etc. .. ..	22,248	26,064	25,797	29,463	29,089	31,588
Kerosine .. ..	10,547	15,679	17,634	17,006	16,891	12,026
Gas and fuel oil .. ..	14,375	14,305	15,993	15,889	20,523	20,353
Lubricating oil .. ..	1,916	2,620	2,507	2,443	2,252	2,516
Martinique—						
Motor spirit, etc. .. ..	22,623	22,400	21,321	57,629	28,581	30,584
Kerosine .. ..	9,051	11,316	9,013	12,974	11,704	11,395
Gas and fuel oil .. ..	20,570	22,221	23,815	27,227	33,535	32,948
Lubricating oil .. ..	2,265	2,329	2,508	2,975	2,586	3,521
Greenland—						
Motor spirit .. ..	2,107	3,307	2,824	2,773	3,314	4,710
Kerosine .. ..	1,103	3,097	2,293	3,423	3,389	8,002
Fuel oil .. ..	29,722	50,592	45,226	53,904	66,478	72,765
Lubricating oil .. ..	569	343	470	644	613	1,392
Guatemala—						
Crude petroleum, etc. .. ..	208,476	209,557	220,532	157,902	188,765	210,911
Aviation spirit .. ..	121,529	122,374	103,000	92,205	89,915	260,023
Motor spirit .. ..						
Kerosine .. ..						
	32,689	42,941	50,092	49,924	44,356	17,986

## IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Guatemala <i>(cont.)</i> —						
Diesel oil .. .. .	82,191	87,807	84,210	52,144	271,035	99,887
Fuel oil .. .. .						
Lubricating oil .. .. .	6,000	5,417	6,369	8,717	9,347	10,210
Grease .. .. .	508	520	523	633	510	729
Asphalt .. .. .	15,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	4
Paraffin wax, etc. .. .. .	6,000	5,428	5,664	5,529	7,133	6,196
Honduras—						
Crude petroleum .. .. .	71,413	102,582	85,146	67,196	68,514	68,809
Motor spirit .. .. .	37,576	40,291	43,587	44,006	50,651	48,677
Kerosine .. .. .	10,666	10,623	12,387	13,397	15,230	16,790
Gas, diesel and fuel oils	71,239	75,227	72,883	92,640	83,545	90,051
Lubricating oil .. .. .	5,492	5,828	4,892	4,003	4,073	4,028
Greases .. .. .	565	513	465	392		
Pitch, asphalt, etc. .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	442	702	2,305
Mexico—						
Crude petroleum .. .. .	—	26	2	20,798	82,290	<i>n.a.</i>
Aviation spirit .. .. .	50,800	6,353	6,528	3,129	3,715	<i>n.a.</i>
Motor spirit .. .. .	110,753	42,651	10,343	7,092	9,632	<i>n.a.</i>
Kerosine .. .. .	743	653	420	150	113	<i>n.a.</i>
Gas oil .. .. .	3,543	33,008	282	334	26,716	<i>n.a.</i>
Fuel oil .. .. .	89,525	82,802	91,288	159,354	207,153	<i>n.a.</i>
Lubricating oil .. .. .	12,789	21,823	14,768	5,204	7,776	<i>n.a.</i>
Grease .. .. .	3,588	2,945	2,443	3,718	2,597	<i>n.a.</i>
Paraffin wax .. .. .	21,249	20,353	1,822	22,655	19,967	<i>n.a.</i>
Petroleum jelly .. .. .	1,691	1,611	1,411	2,176	1,641	<i>n.a.</i>
Asphalt .. .. .	2,087	1,039	468	814	505	<i>n.a.</i>
Asphalt rock .. .. .	844	123	173	136	252	<i>n.a.</i>
Natural gas ( <i>million cu. ft.</i> ) .. .. .	9,877	8,900	9,620	9,384	9,299	<i>n.a.</i>
Netherlands Antilles—						
Crude petroleum .. .. .	38,151,901	39,327,000	39,155,000	38,356,000	40,252,000	40,223,000
Aviation spirit .. .. .	286,885	463,000	425,000	483,000	700,000	589,000
Motor spirit .. .. .	511,137	810,000	444,000	455,000	215,000	366,000
Kerosine .. .. .	28,372	131,000	82,000	46,000	100,000	230,000
Fuel oil .. .. .	1,032,264	1,274,000	3,358,000	4,000,000	2,542,000	899,000
Diesel oil .. .. .	17,647	74,000	21,000	20,000	3,000	91,000
Gas oil .. .. .	234,476	248,000	266,000	172,000	64,000	123,000
Lubricating oil, etc. .. .. .	28,305	92,000	17,000	—	2,000	10,000
Asphalt .. .. .	1,182	—	—	—	—	10,000
Nicaragua—						
Crude petroleum .. .. .	1	22	18,298	143,211	268,983	273,166
Aviation spirit .. .. .	60,379	63,110	64,355	40,796	14,173	11,891
Motor spirit .. .. .						
Kerosine .. .. .	16,423	17,393	18,145	17,432	10,480	2,113
Fuel oil .. .. .	93,595	90,799	103,709	62,414	8,525	8,781
Lubricating oil .. .. .	3,702	4,492	4,109	3,954	6,287	5,713
Paraffin wax .. .. .	888	809	853	915	1,107	913
Petroleum jelly .. .. .						
Natural asphalt .. .. .	9	—	—	—	—	3
Panama Republic—						
Aviation spirit .. .. .	47,585	47,714	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Motor spirit .. .. .	81,018	88,013	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Kerosine .. .. .	29,703	31,076	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Diesel oil .. .. .	47,925	64,211	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Fuel oil .. .. .	133,778	146,244	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Lubricating oil .. .. .	4,596	4,757	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Grease .. .. .	301	240	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Paraffin wax, etc. .. .. .	329	364	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>



## IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
<b>St. Pierre and Miquelon—</b>						
Motor spirit .. ..	552	521	504	563	645	701
Gas oil and fuel oil ..	10,666	21,225	12,743	10,957	20,194	16,534
Lubricating oil .. ..	301	446	332	217	365	370
<b>Salvador—</b>						
Motor spirit .. ..	72,754	63,624	64,146	7,422	18,218	6,751
Kerosine .. ..	26,774	28,564	32,523	25,118	4,425	10,338
Gas oil and diesel oil ..	31,580	38,536	53,254	31,750	8,915	1,140
Fuel oil .. ..	55,947	48,232	52,886	368,135	467,183	305,327
Lubricating oil .. ..	3,403	3,558	3,612	4,436	4,301	4,958
Grease .. ..	336	333	389	388	384	503
Paraffin wax, etc. .. ..	1,009	815	1,106	1,230	1,242	1,633
Petroleum jelly .. ..	236	228	241	239	193	277
Asphalt .. ..	5,526	4,858	5,124	5,056	6,202	5,431
<b>United States—</b>						
Crude petroleum .. ..	57,238,878	58,897,926	64,398,618	64,946,020	68,882,069	71,641,242
Aviation spirit .. ..	3,360	1,619	299,897	304,265	387,799	270,509
Motor spirit, etc. .. ..	289,595	215,765				
Naphtha, etc. .. ..	255,935	112,394	1,281,455	1,078,140	2,721,273	433,455
Kerosine .. ..	8,837	54,084	379	28,326	18,967	64,031
Aviation turbine fuel ..	1,615,884	1,476,386	2,213,007	3,325,304	3,102,997	4,051,197
Fuel oil .. ..	33,649,080	33,640,432	38,335,669	39,616,420	43,300,000	51,082,146
Gas oil and diesel oil ..	1,328,327	1,853,292	1,314,012	1,241,000	1,600,000	n.a.
Unfinished distillates and topped oils ..	2,863,433	3,674,336	3,028,321	n.a.	n.a.	n.a.
Lubricating oil, etc. ..	3,222	2,381	3,961	3,473	5,223	4,451
Road oil, etc. .. ..	213,709	228,606	318,310	n.a.	n.a.	n.a.
Paraffin wax, etc. .. ..	759	356	205	668	1,331	1,499
Ozokerite and ceresin ..	1,918	2,835	3,058	3,067	n.a.	1,545
Petroleum jelly .. ..	6,238	4	7,930	n.a.	n.a.	n.a.
Asphalt (petroleum) ..	774,746	837,810	719,124	819,876	995,000	1,049,700
Natural asphalt and bitumen .. ..	19,496	21,051	43,930	25,389		
Natural gas ( <i>million cu. ft.</i> ) .. ..	155,646	218,860	372,389	406,204	427,641	453,199
<b>Argentina—</b>						
Crude petroleum .. ..	3,262,806	1,771,838	1,097,826	854,790	1,454,214	3,495,878
Motor spirit .. ..	42,672	66,220	50,158	34,062	27,466	62,783
Kerosine .. ..	478,925	522,444	328,334	30,667	16,151	13,051
Gas oil .. ..	501,351	642,228	679,302	396,336	753,379	530,187
Fuel oil .. ..	366,176	2,336	—	—	—	—
Diesel oil .. ..	255,319	219,533	266,528	57,217	277,531	46,149
Lubricating oil .. ..	63,434	34,731	109,380	72,287	67,956	104,547
Grease .. ..	86	341	647	132	337	353
Paraffin wax .. ..	4	17	28	15	53	59
Petroleum jelly .. ..	6	14	40	53	234	69
<b>Bolivia—</b>						
Aviation spirit .. ..	10,387	9,280	10,893	11,931	12,530	10,567
Motor spirit .. ..	—	33	89	67	22	43
Kerosine .. ..	11	92	167	82	53	88
Fuel oil .. ..	25,882	n.a.	6,957	163	411	211
Lubricating oil and grease .. ..	3,448	2,356	2,785	1,363	1,052	1,290
Paraffin wax, etc. .. ..	1,280	1,644	1,699	1,845	1,989	2,117
Tar, pitch, etc. .. ..	588	957	5	10	5	26
<b>Brazil—</b>						
Crude petroleum .. ..	5,594,150	7,429,857	9,803,889	10,210,620	10,632,724	10,085,482
Aviation spirit .. ..	275,785	248,219	238,206	200,977	145,817	159,987
Motor spirit .. ..	601,128	548,472	174,457	313,385	145,522	n.a.
White spirit .. ..	1,392	2,793	3	1	2	n.a.
Kerosine .. ..	96,645	135,576	85,025	16,427	245,129	271,738
Diesel oil .. ..	1,244,422	589,916	37,549	53,631	n.a.	—
Fuel oil .. ..	1,689,975	1,269,636	122,001	—	n.a.	19,157
Lubricating oil .. ..	208,530	179,182	231,679	214,240	260,651	206,339

## IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
<b>Brazil (cont.)—</b>						
Transformer oil ..	359	1,772	6,669	10,291	7,335	5,928
Petroleum jelly ..	1,652	1,210	1,146	1,461	1,610	1,053
Greases .. ..	163	174	58	79	16	23
Paraffin wax ..	16,678	13,446	20,574	16,441	14,161	12,267
Ozokerite and ceresin ..	271	203	1	230	317	125
Asphalt and bitumen ..	1,085	4,175	626	515	498	365
<b>Chile—</b>						
Aviation spirit ..	15,552	8,847	12,855	697	5,800	n.a.
Motor spirit .. ..	12,588	18,335	19,404	12,612		
Kerosine .. ..	102,136	37,449	43,384	r 71,849	57,000	n.a.
Diesel oil .. ..	107,060	153,564	111,109	r 140,322	60,000	n.a.
Residual fuel oil (a) ..	1,690,397	1,164,540	991,234	r 951,231	823,000	n.a.
Lubricating oil ..	18,343	15,823	10,642	12,600	30,000	n.a.
Petroleum jelly ..	178	205	139	347		
Greases .. ..	1,626	2,567	1,243	2,080	n.a.	n.a.
Paraffin wax .. ..	6,496	8,730	5,558	13,371		
Natural asphalt ..	566	234	230	1,405	n.a.	n.a.
<b>Colombia—</b>						
Aviation spirit ..	23,470	17,348	13,040	31,329	42,308	11,838
Motor spirit .. ..	36,202	104,631	169,079	3,814	1,100	22
Kerosine .. ..	2,915	5,948	407	402	55	41
Gas oil and diesel oil ..	9,599	12,692	468	—	28	9
Fuel oils .. ..	399	780	840	—	—	333
Lubricating oil ..	29,463	34,267	34,667	27,846	15,672	9,663
Petroleum jelly ..	435	429	510	692	409	300
Paraffin wax .. ..	23,483	28,020	23,225	24,783	27,860	19,871
Natural asphalt ..	1	9	7	9	12	61
<b>Ecuador—</b>						
Motor spirit .. ..	10,263	10,733	n.a.	29,656	n.a.	n.a.
Lubricating oil and greases .. ..	n.a.	5,470	5,218	6,434	9,995	n.a.
Petroleum jelly ..	n.a.	76	90	106	103	n.a.
Paraffin wax .. ..	n.a.	2,946	3,506	3,909	3,894	n.a.
Natural asphalt ..	n.a.	213	1,723	8,643	2,021	n.a.
<b>French Guiana—</b>						
Motor spirit, etc. ..	2,500	2,856	2,891	4,036	4,236	4,653
Kerosine .. ..	715	1,086	577	1,107	655	955
Fuel oil, etc. .. ..	2,596	2,754	2,631	4,549	4,803	6,126
Lubricating oil ..	430	238	220	219	210	481
<b>Paraguay—</b>						
Motor spirit .. ..	32,000	36,000	39,000	40,000	41,000	n.a.
Kerosine .. ..	18,000	15,000	18,000	19,000	17,000	n.a.
Fuel oil, etc. .. ..	45,000	63,000	67,000	70,000	76,000	n.a.
Lubricating oil ..	2,700	2,400	2,500	3,200	2,500	n.a.
<b>Peru—</b>						
Aviation spirit ..	93,221	36,591	24,774	27,954	29,018	42,878
Motor spirit .. ..	6,965	3,212	17,984	44,382	74,149	133,044
Diesel oil and fuel oil ..	361,123	556,365	514,126	441,214	534,835	470,729
Lubricating oil ..	15,844	14,882	16,352	15,025	13,883	1,141
Petroleum jelly ..	139	185	122	228	197	283
Paraffin wax .. ..	8,010	6,910	8,719	9,749	10,259	12,168
Asphalt and bitumen ..	317	4,293	947	339	2,397	928
Greases .. ..	1,589	1,410	1,860	1,860	1,886	2,404
Ozokerite .. ..	15	18	23	28	22	46
<b>Surinam—</b>						
Motor spirit .. ..	16,634	n.a.	1,158	r 17,518	18,739	n.a.
Kerosine .. ..	5,025	n.a.	5,431	5,352	5,310	n.a.
Gas oil .. ..	3,739	n.a.	745	r 67,189	78,292	n.a.
Diesel oil .. ..	45,406	n.a.	59,999			
Fuel oil .. ..	68,186	n.a.	73,526	r 74,189	97,119	n.a.
Lubricating oil ..	2,106	n.a.	3,731	3,949	3,204	n.a.
Asphalt .. ..	2,808	n.a.	2,997	529	1,250	n.a.

(a) Including crude petroleum.

## IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Uruguay—						
Crude petroleum ..	1,324,000	1,334,000	1,500,000	1,449,000	1,522,000	1,152,901
Motor spirit, etc. ..	8,000	38,000	5,000	6,000	7,000	18,805
Kerosine .. ..	—	—	11,000	—	15,000	n.a.
Gas oil .. ..	26,000	44,000	127,947	48,000	23,000	28,491
Diesel oil .. ..	33,000					
Fuel oil .. ..	167,000	39,000				
Lubricating oil and greases .. ..	19,000	11,000	13,680	12,600	13,300	10,841
Paraffin wax .. ..	420	n.a.	n.a.	n.a.	n.a.	n.a.
Venezuela—						
Motor spirit .. ..	42,843	18,124	12,086	3,088	16,075	3,630
White spirit .. ..	1,423	535	430	856	1,215	1,101
Gas and fuel oils ..	452	2	6	34	62	10
Lubricating oil and grease .. ..	39,940	24,298	19,808	8,278	8,059	5,528
Paraffin wax .. ..	2,519	2,756	4,325	5,761	9,128	5,034
Petroleum jelly ..	411	506	607	424	625	759
Asphalt .. ..	502	159	99	177	236	161
Bitumen, pitch, etc. ..	352	752	1,602	664	n.a.	1,517
Burma—						
Crude petroleum ..	n.a.	n.a.	—	—	156,615	200,499
Motor spirit .. ..	14,172	10,554	14,077	5,341	—	3
Kerosine .. ..	4,321	8,410	15,576	12,515	—	—
Gas and diesel oils ..	30,920	23,360	78,378	14,720	21,442	24,008
Lubricating oil .. ..	12,170	18,880	14,676	6,368	15,230	13,709
Grease .. ..	615	1,358	542	480	511	657
Paraffin wax .. ..	3	1	—	—	—	2
Petroleum jelly ..	658	851	984	461	234	443
Asphalt .. ..	16,605	11,971	19,722	15,530	21,304	14,692
Formosa—						
Crude petroleum ..	1,043,567	1,340,871	1,238,626	1,470,384	1,265,815	1,377,198
Motor spirit .. ..	21	1	—	—	4	—
Lubricating oil .. ..	8,057	15,343	24,678	17,961	23,490	25,388
Grease .. ..	798	535	1,067	372	1,316	1,469
Paraffin wax .. ..	1,318	1,519	1,847	1,836	1,965	2,291
Asphalt .. ..	1,897	2,007	3,653	2,731	3,961	3,561
Indonesia—						
Crude petroleum ..	349,122	2,108,305	1,372,260	n.a.	n.a.	n.a.
Motor spirit .. ..	460,543	365,170	209,510	147,000	126,000	n.a.
Kerosine, etc. .. ..	26,335	183,314	199,000	64,000	n.a.	n.a.
Fuel and gas oils ..	3,263	—	n.a.	n.a.	n.a.	n.a.
Lubricating oil .. ..	45,089	63,913	80,930	65,000	70,000	n.a.
Paraffin wax .. ..	447	679	n.a.	n.a.	n.a.	n.a.
Petroleum jelly ..	271	1,067	n.a.	n.a.	n.a.	n.a.
Asphalt .. ..	14,136	50,874	n.a.	n.a.	n.a.	n.a.
Iran (a)—						
Lubricating oil ..	25,603	25,414	25,041	8,130	3,975	1,408
Paraffin wax .. ..	1,198	1,353	414	1,100	1,287	651
Petroleum jelly ..	196	275	615	414	327	753
Iraq—						
Lubricating oil ..	2,003	2,909	2,237	1,279	1,400	4,733
Israel (b)—						
Lubricating oils ..	10,337	13,454	16,287	17,376	18,386	17,196
Paraffin wax .. ..	969	1,455	1,976	1,839	2,143	2,193
Petroleum jelly ..	77	109	112	295	117	169
Asphalt .. ..	219	340	179	156	204	128
Japan—						
Crude petroleum ..	26,628,519	33,344,140	39,451,896	51,075,352	64,806,881	75,548,739
Aviation spirit .. ..	50,575	65,649	80,217	69,302	37,982	36,093
Motor spirit .. ..	59,511	27,336	16,569	14,726	367,120	473,284
Kerosine .. ..	50	310	2,037	44,444	13,425	25,730
Aviation turbine fuel ..	47,730	82,647	75,794	62,465	14,410	
Gas oil .. ..	79,372	66,358	10,222	1,840	26,878	29,607

(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	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
<b>Japan (cont.)—</b>						
Fuel oil .. .. .	4,867,735	8,213,673	8,942,941	9,910,848	11,147,377	13,022,633
Lubricating oil .. .. .	146,993	220,527	282,365	330,415	431,289	282,986
Grease .. .. .	3,721	3,050	3,334	69,760	7,124	2,502
Petroleum jelly .. .. .	3,735	4,205	3,413	1,814	3,846	3,617
Paraffin wax .. .. .	3,743	3,557	5,253	4,096	5,252	4,851
Gilsonite .. .. .	3,757	3,861	3,925	3,589	3,882	3,214
Asphalt and pitch .. .. .	173	134	74	66	327	337
Petroleum coke .. .. .	368,585	489,945	410,281	582,629	875,447	945,625
<b>Jordan—</b>						
Crude petroleum .. .. .	75,550	203,794	248,432	324,039	353,597	<i>n.a.</i>
Motor spirit .. .. .	43,795	5,456	1,758	1,182	5,109	<i>n.a.</i>
Kerosine .. .. .	5,476	19,813	16,333	16,005	10,787	<i>n.a.</i>
Fuel oil, etc. .. .. .	97,300	58,734	50,848	30,985	6,411	<i>n.a.</i>
Lubricating oil .. .. .	4,511	3,749	5,833	4,691	5,776	<i>n.a.</i>
Natural asphalt .. .. .	8,851	2,004	307	9,094	<i>n.a.</i>	<i>n.a.</i>
<b>Korea (South)—</b>						
Crude petroleum .. .. .	<i>n.a.</i>	<i>n.a.</i>	9,644	14,100	396,349	709,378
Aviation spirit .. .. .	1,291	1,495	1,457	9,003	1	<i>n.a.</i>
Motor spirit .. .. .	120,073	108,261	78,976	62,956	26	<i>n.a.</i>
Kerosine, etc. .. .. .	31,805	39,380	49,546	51,141	7	<i>n.a.</i>
Gas, diesel and fuel oils .. .. .	449,120	533,257	812,814	1,089,530	113,956	<i>n.a.</i>
Lubricating oils .. .. .	14,502	8,123	12,457	31,865	2,898	4,081
Greases .. .. .	493	863	569	941	309	97
Petroleum jelly .. .. .	156	129	220	268	174	260
Paraffin wax .. .. .	13,400	9,470	7,826	6,983	2,655	4,594
Asphalt and pitch .. .. .	9,968	19,274	35,010	63,960	28,279	39,089
<b>Laos—</b>						
Aviation spirit .. .. .	4,710	10,085	15,500	21,000	15,000	<i>n.a.</i>
Motor spirit .. .. .	11,672	13,249	14,918	16,000	17,000	<i>n.a.</i>
Kerosine .. .. .	1,773	2,315	2,540	4,000	3,000	<i>n.a.</i>
Gas oil .. .. .	5,150	8,427	4,884	6,000	9,000	<i>n.a.</i>
Fuel oil .. .. .	1,444	1,995	2,286	3,000	4,000	<i>n.a.</i>
Lubricating oil .. .. .	1,496	1,115	980	1,000	3,000	<i>n.a.</i>
<b>Lebanon—</b>						
Crude petroleum .. .. .	721,709	721,019	198,462	1,087,000	1,366,000	<i>n.a.</i>
Motor spirit .. .. .	159,252	187,835	198,462	202,814	230,974	<i>n.a.</i>
Kerosine .. .. .	104,658	128,945	131,456	46,271	47,065	<i>n.a.</i>
Fuel oil .. .. .	415,363	444,816	363,367	473,280	454,011	<i>n.a.</i>
Lubricating oil .. .. .	7,318	3,783	1,284	9,218	8,386	<i>n.a.</i>
Paraffin wax .. .. .	222	234	231	239	578	<i>n.a.</i>
Natural asphalt .. .. .	375	784	113	1,125	1,600	<i>n.a.</i>
<b>Philippine Republic—</b>						
Crude petroleum .. .. .	789,891	2,248,718	2,988,521	3,559,994	4,148,988	<i>n.a.</i>
Aviation spirit .. .. .	32,658	18,902	17,621	20,248	29,359	<i>n.a.</i>
Motor spirit .. .. .	394,756	153,981	86,142	15,825	6,950	<i>n.a.</i>
Kerosine .. .. .	164,662	40,280	18,404	5,340	850	<i>n.a.</i>
Diesel oil .. .. .	259,126	125,580	55,491	40,532	9,301	<i>n.a.</i>
Fuel oils .. .. .	299,849	66,790	57,124	3,594	111	<i>n.a.</i>
Lubricating oils .. .. .	61,326	60,626	41,934	56,423	83,859	<i>n.a.</i>
Grease .. .. .	3,969	4,155	3,544	2,906	3,694	<i>n.a.</i>
Petroleum jelly .. .. .	1,723	1,248	717	1,213	1,181	<i>n.a.</i>
Paraffin wax .. .. .	6,532	5,389	6,329	7,336	7,286	<i>n.a.</i>
Asphalt .. .. .	22,556	19,229	6,238	955	2,124	<i>n.a.</i>
<b>Syria—</b>						
Crude petroleum .. .. .	673,380	744,337	773,252	866,569	998,843	1,001,359
Motor spirit .. .. .	8,253	6,294	5,686	7,332	17,236	9,982
Kerosine .. .. .	4,397	5,724	5,424	7,606	8,109	8,827
Fuel oil and diesel oil .. .. .	143,895	110,415	620	<i>n.a.</i>	33,780	129,583
Lubricating oil .. .. .	11,748	12,805	21,743	16,925	10,709	17,437
Natural asphalt .. .. .	1,259	405	9,322	8,504	2,122	609

## IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
<b>Thailand—</b>						
Aviation spirit .. ..	2,803	7,666	35,033	27,508	45,696	39,758
Motor spirit .. ..	361,084	353,943	399,155	361,583	337,535	209,231
Kerosine .. ..	114,421	103,756	100,179	128,123	223,642	375,477
Gas, diesel and fuel oils	568,742	681,050	812,819	990,294	1,009,916	584,969
Lubricating oil .. ..	34,745	30,471	47,896	39,540	52,411	57,667
Grease .. ..	1,719	1,537	2,588	2,917	3,028	2,957
Paraffin wax .. ..	2,197	1,714	2,943	2,057	3,123	1,925
Petroleum jelly .. ..	625	552	648	796	757	1,090
Asphalt .. ..	22,601	43,345	50,714	44,842	42,202	7,674
<b>Turkey—</b>						
Crude petroleum .. ..	—	162,911	1,990,006	3,032,060	3,375,961	3,003,288
Motor spirit .. ..	351,877	337,164	182,354	4,879	2,530	4,599
Kerosine .. ..	298,361	290,749	291,743	37,893	26,518	33,230
Gas and diesel oils .. ..	483,463	499,049	455,174	7	—	1
Fuel oil .. ..	44,494	70,847	57,314	100	—	—
Lubricating oils and grease .. ..	47,614	48,241	62,348	90,317	59,737	50,844
Paraffin wax .. ..	837	1,057	1,860	1,741	1,420	2,124
Petroleum jelly .. ..	165	258	20	163	201	304
Asphalt .. ..	3,005	1,002	14	14	1	2
<b>Vietnam (South)—</b>						
Aviation spirit .. ..	1,758	527	1,822	137,100	121	83
Motor spirit .. ..	147,160	149,678	125,266			
Kerosine .. ..	71,662	59,817	65,555	79,000	72,845	92,271
Gas oil .. ..	57,944	71,368	85,469			
Fuel oils .. ..	192,989	256,839	230,314	354,700	293,542	384,842
Lubricating oils and grease .. ..	13,953	13,346	16,422			
Petroleum jelly .. ..	124	153	100	120	<i>n.a.</i>	<i>n.a.</i>
Paraffin wax .. ..	3,003	5,381	2,390	3,771	<i>n.a.</i>	<i>n.a.</i>
<b>French Polynesia—</b>						
Motor spirit, etc. .. ..	4,560	6,022	5,744	25,464	10,044	16,743
Kerosine .. ..	2,206	2,805	2,958			
Other oils .. ..	11,363	13,565	9,471			
<b>New Caledonia—</b>						
Motor spirit, etc. .. ..	14,403	16,528	16,843	16,690	18,923	<i>n.a.</i>
Kerosine .. ..	3,302	3,725	3,670	3,789	3,542	<i>n.a.</i>
Gas and fuel oils .. ..	47,183	66,709	49,463	47,549	16,971	<i>n.a.</i>
Lubricating oil, etc. ..	30,250	31,345	17,324	64,243	11,669	<i>n.a.</i>

**PHOSPHATES**  
PRODUCTION OF PHOSPHATE-ROCK  
(Including Apatite)

Long tons

Producing Country	Estimated Tribasic Phosphate of Lime Content or equivalent										
	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	
<b>COMMONWEALTH COUNTRIES</b>											
Rhodesia (d)	3,437	446	—	—	1,964	n.a.	2,000	300	—	1,000	n.a.
Seychelles (a) (b)	6,988	7,455	5,338	6,965	3,787	5,904	4,000	5,000	3,000	2,000	4,000
Tanzania (c)	—	—	19	—	—	n.a.	—	—	10	—	n.a.
Uganda (d)	—	—	1,105	6,959	9,393	16,123	2,000	200	500	4,700	8,100
Jamaica (c)	64	32	22	—	—	—	20	10	6	—	—
Christmas Island (b)(g)	503,440	694,210	520,750	651,461	774,801	739,568	428,000	590,000	443,000	659,000	629,000
India (d)	14,685	19,822	28,560	12,920	3,985	3,986	5,000	7,000	10,000	1,000	1,000
Australia—											
Phosphate rock	2,234	4,759	4,317	4,909	5,689	4,519	1,000	2,000	2,000	2,500	2,000
Guano	87	115	68	16	—	—	60	80	50	—	—
Nauru Island (b)	1,351,257	1,436,032	1,525,650	1,547,242	1,820,066	1,456,535	1,162,000	1,235,000	1,312,000	1,565,000	1,253,000
Ocean Island (b)	319,526	337,533	256,650	356,128	322,848	359,322	275,000	290,000	221,000	306,000	309,000
TOTAL	2,207,000	2,501,000	2,343,000	2,587,000	2,943,000	2,588,000					
<b>OTHER COUNTRIES</b>											
Belgium (e)	8,113	13,795	12,285	14,000	16,000	(h)20,000	2,000	3,000	2,000	3,000	4,000
France (e)	57,108	65,400	66,377	49,627	42,428	34,044	13,000	16,000	15,000	10,000	7,500
Poland	40,000	46,000	55,000	64,000	88,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Spain	3,198	—	—	—	—	—	2,000	—	—	—	—
U.S.S.R. (f)—											
Apatite	4,630,000	5,510,000	6,500,000	6,890,000	7,870,000	9,300,000	4,050,000	4,820,000	5,680,000	6,020,000	8,100,000
Phosphate rock	2,260,000	3,150,000	3,350,000	3,940,000	4,920,000	5,900,000	1,490,000	2,080,000	2,210,000	2,600,000	3,900,000
Algeria	554,154	432,666	383,709	342,642	70,726	84,813	370,000	290,000	260,000	230,000	47,000
Egypt	556,650	616,635	592,243	602,403	603,552	584,322	345,000	380,000	370,000	370,000	360,000
Morocco	7,374,134	7,824,147	8,033,053	8,413,403	9,938,045	9,669,209	5,310,000	5,767,000	5,913,000	6,190,000	7,310,000
Mozambique (a)	103	—	—	—	—	—	n.a.	—	—	—	—

(g) In addition, the following amounts of phosphate dust were exported (long tons): 1960—n.a.; 1961—76,438; 1962—79,527; 1963—80,552; 1964—72,416; 1965—90,033

(h) Estimated.

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

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

PRODUCTION OF PHOSPHATE ROCK (cont.)

Long tons

Producing Country	1960	1961	1962	1963	1964	1965	Estimated Tribasic Phosphate of Lime Content or equivalent				1965		
							1960	1961	1962	1963		1964	1965
<b>OTHER COUNTRIES</b> (cont.)													
Senegal—													
Phosphate rock ..	105,985	400,541	489,239	457,599	666,387	853,542	88,000	333,000	406,000	380,000	553,000	708,000	
Aluminium phosphates...	103,629	137,179	139,192	123,827	119,029	132,809	65,000	86,000	88,000	78,000	75,000	84,000	
Somal Republic (b) (f) ..	339	n.a.	n.a.	n.a.	n.a.	n.a.	129	n.a.	n.a.	n.a.	n.a.	n.a.	
South Africa—													
Phosphate rock (h) ..	263,423	291,904	302,312	447,729	569,754	600,142	155,000	173,000	184,000	264,000	394,000	434,000	
Guano ..	3,636	4,687	4,700	2,552	4,279	3,307	900	1,100	1,100	600	1,000	800	
South West Africa (f) ..	—	922	574	1,354	412	1,384	—	200	100	300	100	300	
Togoland ..	—	116,035	188,677	509,700	755,400	958,268	—	92,000	153,000	411,000	611,000	776,000	
Tunisia ..	2,062,894	1,951,000	2,064,000	2,330,000	2,707,000	2,992,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Mexico ..	27,066	29,174	(a) 30,000	(a) 30,000	27,454	(a) 28,000	n.a.	n.a.	1,341,000	1,515,000	1,760,000	1,945,000	
Netherlands Antilles (b) ..	113,097	149,596	129,474	126,254	117,666	113,075	83,000	109,000	95,000	92,000	86,000	83,000	
United States (e) ..	17,516,000	18,529,000	19,382,000	19,835,000	22,960,000	26,440,000	11,892,000	12,681,000	13,118,000	13,579,000	15,797,000	17,886,000	
Argentina (f) ..	350	158	179	798	177	(a) 180	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Brazil—													
Apatite ..	199,975	240,056	305,219	211,888	191,996	188,806	116,000	139,000	177,000	147,000	133,000	131,000	
Phosphate rock ..	665,763	408,951	251,406	62,503	50,334	85,535	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Chile—													
Apatite ..	17,260	13,734	12,295	13,689	12,931	10,111	10,000	8,000	7,000	8,000	8,000	6,000	
Guano ..	18,000	19,000	16,000	22,000	15,000	21,000	7,000	7,000	6,000	9,000	6,000	8,000	
Peru (f) ..	155,000	157,000	203,000	189,000	202,000	166,000	40,000	40,000	50,000	50,000	50,000	40,000	
China (a) (d) ..	600,000	500,000	600,000	700,000	800,000	900,000	450,000	350,000	450,000	500,000	600,000	700,000	
Indonesia (g) ..	7,000	9,000	6,000	30,000	(c) 30,000	(c) 30,000	3,000	4,000	3,000	13,000	13,000	13,000	
Israel ..	220,639	217,000	207,000	295,000	236,000	382,000	137,000	137,000	130,000	190,000	155,000	250,000	
Jordan ..	356,135	415,839	670,254	604,732	555,539	814,865	260,000	304,000	489,000	441,000	406,000	595,000	
Philippine Republic—													
Phosphate rock ..	349	—	3,713	1,049	2,812	n.a.	n.a.	—	n.a.	n.a.	n.a.	n.a.	
Guano ..	9,877	396	93	1,450	1,172	4,000	2,400	95	20	350	280	1,000	
Vietnam (North) (d) ..	480,000	555,000	667,000	910,000	a 980,000	a 980,000	420,000	480,000	580,000	790,000	850,000	850,000	
French Polynesia (Makatea)	406,684	374,679	312,081	330,150	382,292	303,000	333,000	307,000	256,000	271,000	313,000	248,000	
TOTAL ..	39,000,000	42,000,000	45,000,000	47,000,000	55,000,000	62,000,000							
World's TOTAL ..	41,000,000	45,000,000	47,000,000	50,000,000	58,000,000	64,000,000							

Phosphate rock is also known to have been produced in Venezuela, North Korea and North Vietnam. Guano is known to have been produced in Sarawak. (a) United States Bureau of Mines' estimate. (b) Exports. (c) Estimated. (d) Apatite. (e) Marketable production. (f) Phosphatic guano. (g) Source: International Superphosphate Manufacturers' Association. (h) Including apatite and aluminium phosphates.

PRODUCTION OF SUPERPHOSPHATES

Long tons

Producing Country	1960	1961	1962	1963	1964	1965	Estimated P <sub>2</sub> O <sub>5</sub> Content					
	1960	1961	1962	1963	1964	1965	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>												
United Kingdom—												
Single .. .. .	719,624	654,224	609,776	516,477	505,687	437,989	143,900	130,800	122,000	103,300	101,100	87,600
Concentrated* ..	160,679	172,139	179,452	70,500	73,688	85,733	69,400	72,200	79,000	31,000	32,400	37,700
Uganda—												
Single .. .. .	—	—	163	7,173	12,209	23,849	—	—	40	1,600	2,700	5,200
Canada*—												
Single .. .. .	213,698	285,100	292,000	297,400	266,300	297,500	42,700	57,000	58,400	62,800	53,100	53,600
Concentrated (c) ..	—	n.a.	n.a.	150,000	160,000	n.a.	—	n.a.	n.a.	70,000	70,000	n.a.
India—												
Single .. .. .	313,000	366,000	437,898	573,000	c 700,000	c 650,000	52,200	61,100	74,200	95,100	116,100	109,200
Pakistan (a)—												
Single .. .. .	3,879	8,048	7,842	6,651	7,160	8,940	700	1,400	1,400	1,200	1,300	1,600
Australia—												
Single .. .. .	2,450,249	2,540,544	2,778,337	3,055,988	3,667,501	3,725,436	539,100	558,900	611,200	672,300	806,900	819,600
New Zealand—												
Single (b) .. .. .	1,000,000	1,050,000	1,000,000	1,204,000	1,455,000	1,585,000	200,000	210,000	200,000	241,000	291,000	317,000
TOTAL .. .. .							1,050,000	1,090,000	r1,146,000	r1,207,000	1,402,000	1,426,000
Irish Republic*—												
Single .. .. .	229,200	211,432	216,700	258,900	318,000	138,600	40,900	39,700	40,100	47,800	57,200	25,400
Concentrated ..	—	22,858	(c)20,600	28,000	29,700	34,338	—	9,900	9,000	12,000	12,900	15,200
<b>OTHER COUNTRIES</b>												
Austria*—												
Single .. .. .	150,857	183,998	243,691	256,300	282,300	193,100	27,200	33,100	43,900	46,100	50,700	34,800
Belgium*—												
Single .. .. .	185,807	191,216	209,400	219,000	250,500	259,900	32,500	34,300	38,100	39,400	45,300	46,800
Concentrated ..	(c)61,000	(c)65,000	(c)69,600	e)120,000	c 130,000	n.a.	27,000	28,000	31,000	53,000	57,000	n.a.
Bulgaria—												
Single .. .. .	c)220,000	c)300,000	c)380,000	c)390,000	c 490,000	n.a.	40,208	54,883	68,540	69,456	88,864	n.a.
Czechoslovakia—												
Single .. .. .	499,000	618,000	695,000	804,000	1,082,000	1,187,000	89,909	111,325	125,168	144,807	194,672	213,644

\*Source: International Superphosphate Manufacturers' Association.

(a) West Pakistan.

(c) Estimated.



PRODUCTION OF SUPERPHOSPHATES (cont.)

Long tons

Producing Country	1960	1961	1962	1963	1964	1965	Estimated P <sub>2</sub> O <sub>5</sub> Content					
							1960	1961	1962	1963	1964	1965
OTHER COUNTRIES (cont.)												
Denmark (a)---												
Single .. .. .	105,902	55,667	—	17,036	42,523	42,239	19,100	10,000	—	3,000	8,000	8,000
Finland*---												
Single .. .. .	225,646	210,600	224,116	321,690	371,882	312,900	42,900	40,000	42,600	61,100	70,700	59,500
Single .. .. .	152,977	138,012	111,556	122,590	138,515	119,000	29,100	26,200	21,200	28,200	26,300	27,400
Kotka-phosphate												
France---												
Single .. .. .	1,203,261*	1,286,826*	1,437,116*	1,417,400*	1,478,052*	1,579,400*	212,000	231,000	259,400	260,200	277,300	301,700
Concentrated* ..	56,549	56,085	67,083	85,109	143,800	185,543	23,600	23,300	28,200	35,200	61,100	83,900
Germany (Federal)*---												
Single .. .. .	391,104	288,549	276,450	283,300	360,072	419,000	67,200	52,500	51,100	52,600	67,200	79,600
Germany (East)---												
Single .. .. .	544,000	596,000	608,000	674,000	673,000	829,000	98,000	107,200	109,500	121,300	121,100	149,300
Greece*---												
Single .. .. .	168,646	165,737	151,400	197,800	220,634	184,100	30,000	29,000	28,200	37,500	41,900	35,000
Hungary---												
Single .. .. .	262,241	322,204	417,651	504,722	530,693	605,711	42,700	53,800	71,200	85,800	97,000	114,000
Italy---												
Single .. .. .	1,473,313	1,507,065	1,393,756	1,452,408	1,258,879	1,366,363	292,000	299,000	276,000	281,000	240,000	260,000
Concentrated ..												
Netherlands*---												
Single .. .. .	525,984	499,039	350,519	373,000	451,013	325,500	94,600	90,100	63,600	67,700	83,500	59,900
Concentrated ..	125,573	117,523	119,982	122,900	155,300	148,340	52,200	49,400	48,000	52,000	69,000	64,100
Norway---												
Single .. .. .	63,000	62,000	38,823	41,200*	40,500*	37,966*	11,000	11,500	7,000	7,500	7,200	6,800
Concentrated* ..	36,847	25,650	26,054	30,475	29,674	24,000	11,000	9,700	8,300	9,900	8,900	7,900
Poland (b)---												
Single .. .. .	689,000	810,000	979,000	994,000	1,230,000	1,358,000	114,000	134,000	162,000	164,000	203,000	224,000
Portugal---												
Single .. .. .	438,705	448,197	413,582	435,384	424,524	n.a.	79,000	81,000	74,000	78,000	76,000	n.a.
Concentrated ..												

\*Source: International Superphosphate Manufacturers' Association.

(a) In addition the following amounts of potash superphosphate were produced (long tons): 1960—547,860; 1961—634,353; 1962—765,986; 1963—725,865; 1964—704,092; 1965—743,637

(b) In addition the following amounts of superbasic slag were produced (long tons): 1960—236,000; 1961—242,000; 1962—253,000; 1963—263,000; 1964—277,000; 1965—291,000

PRODUCTION OF SUPERPHOSPHATES (cont.)

Long tons

Producing Country	Estimated P <sub>2</sub> O <sub>5</sub> Content											
	1960	1961	1962	1963	1964	1965	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES (cont.)												
Roumania—												
Single .. .. .	320,000	350,000	530,000	610,000	690,000	780,000	51,000	56,000	85,000	98,000	110,000	124,000
Spain (a)—												
Single .. .. .	1,979,000	1,810,000	1,823,000	1,980,000	1,880,000	2,080,000	318,600	293,200	295,400	321,200	321,400	355,000
Sweden* (b)—												
Single .. .. .	476,000	469,673	455,338	391,390	406,162	401,300	93,000	91,600	88,800	76,300	79,200	78,300
Concentrated ..	8,552	19,251	21,596	35,750	39,024	47,100	2,500	5,600	6,300	10,400	11,300	13,700
Switzerland*—												
Single .. .. .	(c) 40,000	16,000	24,000	26,000	25,000	9,500	7,000	3,000	4,000	5,000	4,000	1,700
Concentrated ..	100	—	—	—	—	—	45	—	—	—	—	—
U.S.S.R.												
Single .. .. .	6,251,000	6,699,000	6,924,000	7,734,000	10,508,000	n.a.	1,190,000	1,270,000	1,320,000	1,470,000	2,000,000	n.a.
Concentrated ..	243,760	405,997	512,000	720,000	953,000	n.a.	46,000	77,000	97,000	137,000	181,000	n.a.
Yugoslavia—												
Single .. .. .	78,876	54,372	46,200	53,300	87,000	n.a.	12,600	8,700	7,400	8,500	14,000	n.a.
Algeria—												
Single .. .. .	184,541	175,108	161,100	160,978	206,114	247,643	27,700	26,300	24,200	24,100	33,000	40,000
Egypt—												
Single .. .. .	77,000*	88,000*	93,000*	84,300*	97,200*	97,000*	13,000	15,000	16,200	14,800	17,000	17,000
Morocco—												
Single .. .. .	664,962	633,157	750,900	837,120	954,300	750,000	126,300	120,300	142,000	159,000	181,300	143,000
South Africa—												
Single .. .. .	24,100	24,100	26,500	47,400*	48,000*	28,400*	4,000	4,000	4,000	7,400	7,300	4,400
Concentrated ..	122,700	133,000	144,000	136,000	150,000	n.a.	52,000	57,000	62,000	58,000	65,000	n.a.
Cuba*—												
Single .. .. .	46,002	(c) 40,000	47,800	51,100	52,100	52,000	8,300	7,000	8,600	9,200	9,300	9,000
Mexico—												
Single .. .. .	91,760	102,388	107,700	n.a.	121,290	129,792	16,500	18,400	19,400	n.a.	21,800	23,400
Concentrated ..	—	—	23,485	n.a.	41,259	32,663	—	—	9,400	n.a.	16,500	13,100
Salvador—												
Single .. .. .	—	—	—	—	7,701	8,427	—	—	—	—	1,500	1,700
United States*—												
Single .. .. .	6,355,487	6,201,851	6,017,100	6,084,800	6,592,100	6,100,400	1,144,000	1,116,000	1,083,100	1,095,200	1,186,600	1,098,100
Concentrated ..	1,981,798	2,073,661	1,835,704	2,207,960	2,680,200	3,205,324	891,800	933,100	826,100	993,600	1,206,100	1,442,400

\*Source: International Superphosphate Manufacturers' Association.

(a) Including Canary Islands.

(c) Estimated.

(b) In addition the following amounts of potash superphosphate were produced (long tons):  
1960—344,762; 1961—404,984; 1962—449,551; 1963—455,448; 1964—479,478; 1965—n.a.

PRODUCTION OF SUPERPHOSPHATES (cont.)

Long tons

Producing Country	1960-1965						Estimated P <sub>2</sub> O <sub>5</sub> Content					
	1960	1961	1962	1963	1964	1965	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES (cont.)												
Brazil— Single .. .. .	205,648	219,745	252,288	330,841	n.a.	n.a.	37,000	39,600	46,500	59,600	n.a.	n.a.
Columbia— Single .. .. .	5,403*	n.a.	n.a.	n.a.	n.a.	5,000*	1,000	n.a.	n.a.	n.a.	n.a.	900
Peru*— Single .. .. .	23,400	(a) 24,000	27,600	33,400	34,900	35,000	4,700	5,000	4,900	6,000	6,300	6,300
Uruguay*— Single .. .. .	26,997	(a) 28,000	(a) 26,000	27,400	(a) 60,000	34,000	5,400	5,500	4,600	4,900	10,600	6,100
Venezuela*— Single .. .. .	8,956	n.a.	(a) 10,000	n.a.	n.a.	n.a.	1,600	n.a.	2,000	n.a.	n.a.	n.a.
Formosa— Single .. .. .	119,542	127,947	141,444	169,441	181,931	192,757	22,000	23,000	25,000	30,000	33,000	35,000
Israel*— Single .. .. .	80,196	79,224	79,559	70,800	64,306	96,800	12,700	12,700	12,700	11,300	10,300	15,500
Concentrated .. .. .	296	1,709	1,111	n.a.	—	5,800	100	700	500	n.a.	—	1,900
Japan*— Single .. .. .	2,097,937	1,817,864	1,788,700	1,636,300	1,634,100	1,525,400	365,300	317,100	316,600	291,200	293,500	274,600
Concentrated .. .. .	7,151	9,333	14,667	23,300	49,300	63,580	2,600	3,400	5,400	9,000	18,000	24,000
Jordan— Single .. .. .	440	248	516	663	1,827	n.a.	80	40	90	100	300	n.a.
Lebanon*— Single .. .. .	15,881	(a) 18,000	31,100	34,990	47,000	n.a.	3,500	3,000	5,600	6,300	8,500	n.a.
Philippine Republic*— Single .. .. .	2,056	2,000	2,000	2,000	3,400	6,000	400	400	400	400	600	1,200
Turkey— Single .. .. .	61,470	20,860	28,000	172,000	149,137	217,800	9,800	3,300	4,500	27,500	23,900	34,800
TOTAL .. .. .							6,000,000	6,100,000	6,100,000	6,800,000	8,000,000	8,000,000
WORLD'S TOTAL .. .. .							7,000,000	7,200,000	7,200,000	7,800,000	9,400,000	10,000,000

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

\* Source: International Superphosphate Manufacturers' Association.

(a) Estimated.

PRODUCTION OF BASIC SLAG

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Great Britain ..	(a) 830,380	(a) 731,439	(a) 940,617	(a) 812,549	(b) 920,322	(b) 638,875
<b>OTHER COUNTRIES</b>						
Belgium (a) .. ..	1,208,000	1,127,000	1,210,000	1,184,000	1,135,000	1,314,000
France .. ..	2,299,216	2,376,508	2,337,246	2,314,115	2,533,159	2,505,966
Germany (Federal) ..	3,531,000	3,436,000	3,170,000	3,006,000	3,186,000	2,933,000
Germany (East) ..	107,000	108,000	115,000	112,000	118,000	119,000
Italy .. ..	97,303	115,506	123,272	110,082	86,361	17,667
Luxemburg .. ..	768,125	782,995	773,923	755,297	805,427	823,502
Sweden .. ..	50,166	35,574	33,691	29,363	49,729	<i>n.a.</i>
Egypt .. ..	<i>n.a.</i>	18,300	26,202	19,723	29,014	31,309

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) Years ended May 31 of year following that stated.

## EXPORTS OF PHOSPHATES, ETC.

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—						
Phosphatic fertilizers ..	607	9,871	9,280	839	2,769	19,372
Seychelles—						
Phosphatic guano ..	6,988	7,455	5,338	6,965	3,787	5,904
Uganda—						
Phosphate-rock ..	4,004	453	584	464	365	193
Canada—						
Phosphatic fertilizers ..	(£7,684,873)	(£6,933,905)	(£6,475,384)	(£4,329,440)	(£3,403,812)	(£6,453,415)
Christmas Island—						
Phosphate-rock ..	503,440	694,210	520,750	651,461	774,801	739,568
Phosphate dust ..	<i>n.a.</i>	76,438	79,527	80,552	72,416	90,033
Malaya—						
Phosphate-rock ..	427	238	783	1,499	1,542	2,303
Phosphatic fertilizers ..	62	111	31	113	96	86
Australia (a)—						
Superphosphates ..	623	36	16	—	—	—
New Zealand—						
Superphosphates ..	98	37	110	(a) 172	(a) 250	<i>n.a.</i>
Nauru Island—						
Phosphate-rock ..	1,351,257	1,436,032	1,525,650	1,547,242	1,820,066	1,456,535
Ocean Island—						
Phosphate-rock ..	319,526	337,533	256,650	356,128	322,848	359,322
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Phosphate-rock ..	3,124	9,863	20,197	25,056	28,629	30,710
Superphosphates—						
Single ..	109,567	107,832	148,388	} 211,812	277,817	216,478
Concentrated ..	61,366	65,694	69,485			
Basic slag ..	1,403,422	1,218,800	1,558,412	1,717,465	1,768,548	1,843,036
France—						
Phosphate-rock ..	1,846	3,508	1,209	2,549	2,329	14,293
Superphosphates ..	83,545	49,318	31,927	38,290	49,705	38,017
Basic slag ..	294,874	283,407	294,591	298,105	337,678	331,999
Di-calcium phosphates	750	805	595	465	267	277
Germany (Federal)—						
Phosphate-rock ..	24,960	29,687	33,013	35,653	42,555	34,077
Superphosphates ..	17,258	17,921	14,941	14,489	18,411	21,656
Basic slag ..	389,771	357,866	360,459	401,772	348,782	281,959
Other phosphatic fertilizers ..	3,922	23,017	21,465	9,252	1,759	3,808
Hungary—						
Superphosphates ..	33,741	6,289	31,586	15,957	<i>n.a.</i>	<i>n.a.</i>
Italy—						
Superphosphates ..	109,646	96,820	68,480	47,705	31,417	1,794
Netherlands—						
Phosphate-rock ..	4,978	5,056	3,596	3,450	1,303	961
Superphosphates ..	468,076	421,792	364,472	370,075	457,518	371,682
Basic slag ..	23	<i>n.a.</i>	—	39	187	7,671
Norway—						
Superphosphates ..	25,121	30,706	25,949	23,749	18,070	23,952
Portugal—						
Superphosphates ..	35,451	82,042	55,328	91,412	78,795	43,401
Spain—						
Superphosphates, etc. ..	45,254	76,269	59,682	32,342	123,814	56,683
Sweden—						
Phosphate-rock ..	—	—	—	628	—	—
Di-calcium phosphates	716	808	1,333	7,330	13,479	18,127
Basic slag ..	14,166	5,345	8,020	6,712	22,166	20,031

(a) Years ended June 30 of that stated.

## EXPORTS OF PHOSPHATES, ETC. (cont.)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES						
<i>(cont.)</i>						
U.S.S.R.—						
Apatite ore .. ..	119,500	164,200	140,600	80,100	63,900	80,000
do. concentrates ..	1,777,100	2,020,900	2,206,700	2,187,000	2,942,300	3,437,900
Superphosphates ..	200,000	334,900	316,600	290,400	223,300	192,100
Yugoslavia—						
Superphosphates ..	41,002	75,943	59,161	—	87,571	210,771
Algeria—						
Phosphate-rock ..	462,695	373,200	400,558	320,556	—	56,115
Superphosphates ..	2,175	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Egypt—						
Phosphate-rock ..	296,901	414,458	212,015	413,556	322,561	367,597
Morocco—						
Phosphate-rock ..	7,463,502	7,502,119	7,999,454	8,386,884	9,916,687	9,397,397
Hyperphosphates ..	5,955	5,636	3,723	5,040	4,309	1,237
Superphosphates ..	—	17,918	1	6,102	32,359	261
Senegal—						
Phosphate-rock ..	58,190	303,686	344,847	340,785	623,199	755,021
Aluminium phosphates	93,797	88,842	84,671	4,860	86,845	98,322
Phosphate fertilizers ..	7,222	18,681	32,292	13,364	22,687	3,977
Somali Republic (a)—						
Phosphatic guano ..	339	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
South Africa—						
Phosphate rock ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	11,266	<i>n.a.</i>
Super-phosphates ..	843	3,296	1,746	3,731	5,274	5,502
Other phosphatic fertilizers ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>		
South West Africa—						
Phosphatic guano ..	—	—	237	<i>n.a.</i>	—	909
Togoland—						
Phosphate-rock ..	—	56,259	181,808	434,462	788,808	799,791
Tunisia—						
Phosphate-rock ..	1,604,275	1,601,311	1,804,707	1,940,711	2,179,736	2,225,031
Hyperphosphates ..	56,838	63,432	35,780	72,448	109,052	113,924
Superphosphates ..	110,141	154,211	113,271	144,891	122,850	253,044
Mexico—						
Phosphate-rock ..	21,995	23,960	27,289	23,590	27,455	<i>n.a.</i>
Netherlands Antilles—						
Phosphate-rock ..	113,097	149,596	129,474	126,254	117,666	113,075
United States—						
Phosphate-rock ..	4,250,970	4,122,733	4,239,121	4,612,300	5,652,574	6,673,237
Superphosphates—						
Single .. ..	136,786	131,927	115,928	601,887	172,215	528,161
Concentrated ..	280,146	337,271	442,260			
Venezuela—						
Superphosphates ..	<i>n.a.</i>	6,810	20,038	23,501	55,133	<i>n.a.</i>
French Polynesia (Makatea)—						
Phosphate-rock ..	357,381	362,960	321,574	316,173	368,208	325,000
Israel—						
Phosphate-rock ..	94,265	92,236	64,385	145,288	148,881	303,230
Japan—						
Phosphate-rock ..	10,686	4,698	11,815	11,128	701	121
Superphosphates ..	101,599	29,971	64,898	33,716	159,789	164,375
Thermal phosphates ..	25,779	37,620	117,582	41,212	35,914	9,444
Other phosphatic fertilizers ..	6,303	18,485	5,546	8,892	7,954	17,126
Jordan—						
Phosphate-rock ..	313,796	376,763	352,685	351,497	617,170	595,000
Lebanon—						
Superphosphates ..	11,034	11,215	<i>n.a.</i>	13,362	12,874	<i>n.a.</i>

(a) Former British Protectorate only.

## IMPORTS OF PHOSPHATES, ETC.

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—						
Phosphate-rock.. ..	1,429,515	1,355,649	1,399,288	1,413,829	1,485,010	1,667,688
Superphosphates .. ..	33,952	28,390	25,520	25,738	16,069	11,478
Basic slag .. ..	80,459	71,411	76,837	96,821	76,343	46,217
Ammonium phosphate .. ..	11,730	17,912	14,820	10,904	11,557	3,429
Ghana—						
Superphosphates .. ..	45	66	47	118	50	1,640
Other phosphatic fertilizers .. ..	210	459	1,595	1,039	192	2,477
Kenya—						
Phosphate-rock.. ..	937	—	—	—	—	—
Superphosphates .. ..	10,768	11,163	10,390	12,079	12,125	11,400
Other phosphatic fertilizers .. ..	2,204	1,382	1,276	1,893	45	122
Mauritius—						
Phosphatic guano .. ..	9,620	10,521	7,494	8,928	7,295	5,689
Phosphatic fertilizers .. ..	2,879	5,496	7,016	7,910	7,093	11,460
Nigeria—						
Phosphate-rock.. ..	444	47	11	} 8,269	13,022	10,492
Superphosphates .. ..	308	159	3,199			
Other phosphatic fertilizers .. ..	999	1,807	8,628			
Rhodesia (a)—						
Phosphate-rock.. ..	59,466	66,236	66,504	84,816	<i>n.a.</i>	<i>n.a.</i>
Superphosphates .. ..	17,296	21,188	20,203	27,491	5,735	2,379
Other phosphatic fertilizers .. ..	81	529	3,991	1,744	5,998	10,255
Sierra Leone—						
Superphosphates .. ..	281	—	1	374	6	50
Other phosphatic fertilizers .. ..	3	467	10	566	200	675
Tanzania—						
Superphosphates .. ..	1,315	1,135	570	630	845	1,129
Other phosphatic fertilizers .. ..	67	8	33	15	13	60
Uganda—						
Superphosphates .. ..	1,033	1,185	1,402	647	1,489	1,654
Other phosphatic fertilizers .. ..	1,345	1	310	2	2	15
Zambia—						
Phosphatic fertilizers .. ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	922	1,822
Canada—						
Phosphate-rock.. ..	841,070	943,647	1,032,113	1,158,417	1,272,842	1,513,657
Superphosphates, triple do. other .. ..	74,234	60,210	49,548	37,452	100,527	80,603
Basic slag .. ..	106,865	111,218	98,043	74,944	56,481	47,249
Other phosphatic fertilizers .. ..	500	491	268	—	—	—
Other phosphatic fertilizers .. ..	5,575	6,008	19,232	33,051	<i>n.a.</i>	<i>n.a.</i>
Antigua—						
Phosphatic fertilizers .. ..	3	3	52	—	1,051	203
Barbados—						
Phosphatic fertilizers .. ..	345	10	34	50	35	36
Grenada—						
Superphosphates .. ..	599	310	635	33	20	423
Other phosphatic fertilizers .. ..	55	<i>n.a.</i>	90	368	46	705
Jamaica—						
Phosphatic fertilizers .. ..	1,588	812	1,568	2,075	3,546	3,313
St. Kitts—						
Phosphatic fertilizers .. ..	273	304	174	188	310	221
St. Lucia—						
Phosphatic fertilizers .. ..	290	83	1,280	7	150	175

(a) Figures for years 1960 to 1963 relate to Rhodesia and Nyasaland.

## IMPORTS OF PHOSPHATES, ETC. (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965	
COMMONWEALTH COUNTRIES (cont.)							
St. Vincent—							
Superphosphates ..	48	24	—	—	285	210	
Trinidad and Tobago—							
Superphosphates ..	1,815	1,287	1,029	299	130	n.a.	
British Guiana—							
Superphosphates ..	2,817	1,711	555	n.a.	1,229	160	
Basic slag ..	223	1,138	5	n.a.	5	3	
Other phosphatic fertilizers ..	1,139	3,169	456	n.a.	1,400	3,146	
Ceylon—							
Phosphate-rock ..	72,119	57,704	52,275	72,174	64,898	39,602	
Superphosphates ..	966	847	1,452	1,193	2,128	1,115	
Basic slag ..	135	40	26	25	20	56	
Other phosphatic fertilizers ..	74	349	15	20	10	10,970	
Cyprus—							
Superphosphates ..	35,140	37,421	32,403	33,305	31,261	31,853	
Basic slag, etc. ..	340	683	198	27	—	975	
Hong Kong—							
Phosphatic fertilizers ..	104	213	81	85	50	71	
India (b)—							
Phosphate-rock ..	249,833	249,956	301,065	331,458	419,577	556,760	
Other phosphates ..	6,810	2,579	4,518	3,412	11,157	21	
Superphosphates ..	596	737	2,213	534	136	6,917	
Ammonium phosphate	5	8	9,846	23,581	35,632	46,636	
Malaya—							
Phosphate-rock ..	64,879	78,960	79,881	103,212	94,546	96,908	
Phosphatic fertilizers ..	18,050	8,932	6,570	7,904	6,656	6,733	
Sabah—							
Natural phosphates ..	n.a.	n.a.	n.a.	904	238	1,203	
Superphosphates ..	33	81	—	10	n.a.	n.a.	
Other phosphatic fertilizers ..	476	44	1,279	n.a.	1,251	742	
Sarawak—							
Natural phosphates ..	1	19	797	1,511	5,560	5,886	
Phosphatic fertilizers ..	5,026	5,146	5,018	6,999	849	947	
Australia (a)—							
Phosphate-rock ..	1,322,173	1,723,518	1,835,070	1,694,916	1,989,413	2,517,313	
Superphosphates ..	—	96	126	95	—	—	
Fiji—							
Phosphatic fertilizers ..	n.a.	n.a.	n.a.	3,870	5,210	4,157	
New Zealand—							
Phosphate-rock ..	608,202	597,568	580,620	645,756	(a) 722,871	} a 925,360	
Phosphatic guano ..	—	—	5,324	n.a.	(a) 3,455		
Superphosphates ..	—	54	49	(a) 82	(a) 99		
Basic slag ..	29,670	31,516	21,522	21,341	(a) 23,876		(a) 20,050
Other phosphates ..	2,527	4,750	4,849	7,697	(a) 1,723		(a) 2,988
Irish Republic—							
Phosphate-rock ..	163,030	221,938	221,806	226,935	235,691	239,813	
Superphosphates ..	87,210	14,031	2,358	4,744	8,090	15,026	
Basic slag ..	49,950	65,655	121,378	121,527	155,579	150,237	
Di-calcium phosphate	(c)	(c)	(c)	(c)	365	1,155	
Other phosphatic fertilizers ..	11,226	13,637	16,179	24,328	24,548	16,298	

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

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



## IMPORTS OF PHOSPHATES, ETC. (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<b>Austria—</b>						
Phosphate-rock . . . . .	121,905	124,248	190,273	195,017	265,880	228,513
Superphosphates (b) . . . . .	76,495	26,902	11,750	9,750	10,327	14,180
Basic slag . . . . .	267,189	264,049	269,146	316,404	344,641	331,859
<b>Belgium-Luxemburg</b>						
<b>E.U.—</b>						
Phosphate-rock . . . . .	642,026	886,094	865,992	993,935	1,160,803	1,265,999
Superphosphates . . . . .	255	1,254	6,307	304	1,616	382
Di-calcium phosphates . . . . .	137	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Basic slag . . . . .	100	44	4	5	23	22
<b>Czechoslovakia—</b>						
Phosphatic fertilizers (a) . . . . .	146,000	170,000	191,000	208,000	256,000	286,000
<b>Denmark—</b>						
Phosphate-rock . . . . .	259,558	302,353	281,522	307,792	279,362	337,285
Superphosphates . . . . .	167,709	188,398	126,929	101,733	87,627	79,410
Di-calcium phosphates . . . . .	26,868	23,544	25,981	26,214	33,785	33,199
Basic slag . . . . .	6,024	6,146	9,365	8,370	9,118	9,324
<b>Finland—</b>						
Phosphate-rock . . . . .	231,786	273,625	231,706	230,066	319,901	360,961
Superphosphates . . . . .	68,293	73,302	62,335	16,187	35,533	134,142
Basic slag . . . . .	24,292	10,089	10,947	10,366	9,873	15,207
Di-calcium phosphates . . . . .	7,689	165	888	1,426	394	9,450
<b>France—</b>						
Phosphate-rock . . . . .	1,707,582	1,762,437	1,998,572	2,118,068	2,382,588	2,733,898
Aluminium phosphates . . . . .	103,067	87,427	85,189	81,271	100,411	90,891
Superphosphates . . . . .	221,547	270,980	287,682	329,634	369,667	306,255
Calcined phosphates . . . . .	15,427	13,195	19,123	16,957	20,009	24,251
Basic slag . . . . .	428,223	598,419	871,444	873,203	775,525	725,218
Di-calcium phosphates . . . . .	12,724	22,505	27,113	18,597	20,768	20,088
<b>Germany (Federal)—</b>						
Phosphate-rock, etc. . . . .	1,616,786	1,488,526	1,596,262	1,615,589	2,254,392	2,481,278
Superphosphates . . . . .	6,303	18,636	34,935	38,160	22,680	22,256
Basic slag . . . . .	866,335	521,858	436,911	406,447	416,930	520,726
Other phosphatic fertilizers . . . . .	91	117	273	631	729	1,433
<b>Germany (East) (a)—</b>						
Phosphate rock . . . . .	207,900	231,100	236,100	246,400	320,000	315,300
Other phosphatic fertilizers . . . . .	56,164	58,217	25,136	44,303	92,787	86,733
<b>Greece—</b>						
Phosphate-rock . . . . .	180,675	141,260	145,632	200,842	25,408	155,159
Other phosphatic fertilizers . . . . .	8,765	17,994	73,334	81,193	82,069	59,333
<b>Hungary—</b>						
Phosphate-rock . . . . .	174,807	185,744	227,319	301,634	474,712	422,000
<b>Iceland—</b>						
Superphosphates . . . . .	8,120	6,617	10,789	3,554	3,865	8,134
<b>Italy—</b>						
Phosphate-rock . . . . .	1,444,811	1,363,315	1,548,820	1,455,257	1,688,722	1,628,954
Superphosphates . . . . .	8,120	—	9	1,162	1,988	8,805
Basic slag . . . . .	2,240	11,590	23,247	17,762	1,685	67,596
<b>Netherlands—</b>						
Phosphate-rock . . . . .	719,800	700,260	555,807	664,480	797,667	771,066
Superphosphates . . . . .	30,149	36,897	77,073	52,922	98,949	57,452
Basic slag . . . . .	270,668	131,862	146,177	152,219	230,553	249,506
Di-calcium phosphates . . . . .	14,456	3,621	185	9,490	2,863	2,965
<b>Norway—</b>						
Phosphate-rock . . . . .	132,590	150,507	165,708	147,418	196,600	170,633
Basic slag . . . . .	8,444	9,039	7,779	6,247	7,057	5,051

(a)  $P_2O_5$  content.

(b) Including other phosphatic fertilisers.

## IMPORTS OF PHOSPHATES, ETC. (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES (cont.)						
Poland—						
Apatite concentrates ..	269,200	334,900	<i>n.a.</i>	312,200	425,700	548,000
Phosphate rock ..	351,900	446,400	<i>n.a.</i>	475,800	549,400	635,000
Portugal—						
Phosphate-rock ..	251,360	271,063	238,388	268,982	252,341	270,635
Basic slag ..	13,028	11,417	9,351	9,900	14,311	10,471
Roumania—						
Phosphate-rock (a) ..	71,700	78,500	101,200	147,900	93,000	171,500
Spain—						
Phosphate-rock ..	926,232	926,640	1,010,040	985,844	1,084,069	1,103,694
Superphosphates, etc. ..	—	—	—	539	98	50
Basic slag ..	16,975	13,262	29,649	41,199	20,214	31,306
Sweden—						
Phosphate-rock ..	339,063	367,750	391,464	378,970	420,019	480,742
Superphosphates ..	13,085	938	10	281	2,724	652
Di-calcium phosphates	12,466	7,822	5,586	3,941	3,638	2,771
Switzerland—						
Phosphate-rock ..	37,054	34,530	30,641	34,021	35,993	36,717
Super phosphates, etc. ..	10,414	11,885	12,600	12,304	14,471	12,503
Basic slag ..	168,258	172,023	176,664	180,799	189,590	191,258
Di-calcium phosphates	1,278	2,302	2,665	3,677	5,442	8,852
Yugoslavia—						
Phosphate-rock ..	197,183	250,616	319,154	532,056	634,749	464,391
Superphosphates ..	54,511	2,953	73,877	215,240	16,339	<i>n.a.</i>
Basic slag ..	54,888	2,814	7,598	76,279	116,044	6,939
Algeria—						
Superphosphates ..	12,216	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Basic slag ..	3,263	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Di-calcium phosphates	1,736	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Angola—						
Superphosphates ..	623	715	1,565	982	2,689	2,540
Cameroun—						
Phosphatic fertilizers ..	93	257	405	265	734	563
Canary Islands—						
Phosphate-rock ..	11,420	16,598	14,293	16,500	14,587	19,025
Egypt—						
Superphosphates ..	29,365	129,647	73,921	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Equatorial African Community—						
Phosphatic fertilizers ..	141	407	59	<i>n.a.</i>	106	496
Malagasy Republic—						
Phosphatic fertilizers ..	742	344	401	262	613	<i>n.a.</i>
Morocco—						
Superphosphates ..	39	—	438	541	166	974
Di-calcium phosphates	6,066	2,923	1,756	487	10	13
Reunion—						
Phosphate fertilizers ..	3,745	1,729	790	873	882	642
South Africa—						
Phosphate-rock ..	378,114	364,471	443,691	313,926	297,976	<i>n.a.</i>
Superphosphates ..	1,743	2,662	6,321	13,069	(b)	<i>n.a.</i>
Basic slag ..	39,658	51,157	44,053	39,446	26,488	<i>n.a.</i>
Other phosphatic fertilizers ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	51,235	<i>n.a.</i>
Sudan—						
Superphosphates ..	1,007	579	1,144	62	69	48
Tunisia—						
Phosphatic fertilizers ..	236	68	—	346	70	—
Costa Rica—						
Phosphatic fertilizers ..	34,725	21,495	8,675	387	2,555	57,146
Dominican Republic—						
Superphosphates ..	3,749	4,732	5,321	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

 (a)  $P_2O_5$  content.

(b) Included with "other phosphatic fertilizers".

## IMPORTS OF PHOSPHATES, ETC. (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
French West Indies—						
Guadeloupe—						
Phosphatic fertilizers ..	1,103	523	184	345	98	1,198
Martinique—						
Phosphatic fertilizers ..	2,815	3,041	2,470	1,071	1,616	679
Guatemala—						
Phosphatic fertilizers ..	2,133	508	5,395	3,123	5,431	2,843
Honduras—						
Phosphatic fertilizers ..	152	135	579	32	3,042	2,864
Mexico—						
Phosphate-rock ..	65,269	65,263	121,265	196,109	200,445	224,586
Superphosphates ..	20,059	34,195	6,513	5,961	744	<i>n.a.</i>
Ammonium phosphates	14,893	11,509	16,720	3,527	7,339	<i>n.a.</i>
Nicaragua—						
Phosphatic fertilizers ..	212	341	714	1,937	4,547	13,900
Panama Republic—						
Phosphatic fertilizers ..	519	674	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Salvador—						
Phosphatic fertilizers ..	1,707	1,109	1,131	1,338	3,449	15,472
United States—						
Phosphate-rock ..	129,290	134,004	133,628	160,708	155,819	152,274
Superphosphates—						
Single ..	1,112	1,151	13,860	} 64,144	70,512	51,698
Concentrated ..	915	1,946	44,352			
Ammoniated ..	237	140	954			
Basic slag ..	—	46	2,012	1,552	<i>n.a.</i>	<i>n.a.</i>
Di-calcium phosphates	5,164	10,149	9,193	527	—	146
Ammonium phosphates	107,087	100,887	144,722	4,326	6,291	2,683
Brazil—						
Phosphate-rock ..	66,836	56,632	54,997	218,387	178,892	152,274
Superphosphates—						
Single ..	8,655	20,534	14,012	9,626	5,420	5,685
Concentrated ..	61,850	51,376	43,502	70,282	48,488	48,945
Calcined phosphates ..	1,062	2,809	2,046	4,399	4,353	2,092
Di-calcium phosphate ..	2,566	2,708	2,879	2,398	1,673	591
Basic slag ..	2,896	4,310	2,262	4,650	5,788	5,546
Chile—						
Superphosphates ..	21,954	35,128	58,788	77,864	<i>n.a.</i>	<i>n.a.</i>
Basic slag ..	4,267	13,585	15,529	33,695	<i>n.a.</i>	<i>n.a.</i>
Di-calcium phosphates	21,241	35,137	31,498	40,504	<i>n.a.</i>	<i>n.a.</i>
Other phosphatic fertilizers ..	2,610	18,556	31,184	32,769	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Phosphate-rock ..	2,396	3,347	8,191	16,829	26,370	6,449
Superphosphates ..	8,477	4,351	13,983	28,963	27,464	26,635
Di-calcium phosphates	21,965	31,354	9,623	7,364	2,477	451
Peru—						
Phosphate-rock ..	14,461	11,993	13,119	11,606	14,114	2,746
Phosphatic fertilizers ..	1,975	2,568	3,472	206	1,242	20,237
Venezuela—						
Calcium phosphates and superphosphates ..	7,597	10,408	4,664	6,847	1,512	1,677
Burma—						
Phosphatic fertilizers ..	49	—	6,780	—	16,500	24,540
Formosa—						
Apatite ..	79,540	—	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Calcium phosphate ..	(a)	(a)	(a)	539	786	1,108
Other phosphatic fertilizers ..	44,772	43,370	6,060	17,553	9,940	<i>n.a.</i>
Indonesia—						
Superphosphates ..	22,204	121,553	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Phosphatic fertilizers ..	24,268	15,149	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

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

## IMPORTS OF PHOSPHATES, ETC. (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES (cont.)						
Iran (a)—						
Phosphatic fertilizers ..	<i>n.a.</i>	9,523	17,020	17,038	13,878	18,897
Iraq—						
Phosphatic fertilizers ..	1,581	2,113	1,073	1,608	2,975	<i>n.a.</i>
Japan—						
Phosphate-rock ..	2,013,932	2,070,072	1,864,237	2,026,148	2,279,150	2,380,063
Jordan—						
Phosphatic fertilizers ..	2,811	722	2,219	1,709	2,523	<i>n.a.</i>
Korea (South)—						
Superphosphates ..	121,925	46,530	55,479	27	1,981	<i>n.a.</i>
Calcium phosphates ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	27	10,122	78,445
Other phosphatic fertilizers ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	246,755	239,920	200,994
Lebanon—						
Phosphatic fertilizers ..	9,566	9,574	12,484	20,296	20,055	<i>n.a.</i>
Philippine Republic—						
Phosphate-rock ..	6,248	10,185	12,292	11,985	18,457	<i>n.a.</i>
Superphosphates ..	—	—	1,493	886	1,194	<i>n.a.</i>
Ammonium phosphate	21,301	24,858	19,708	6,882	15,966	<i>n.a.</i>
Other phosphatic fertilizers ..	7,720	17,086	52,430	4,682	24,087	<i>n.a.</i>
Syria—						
Phosphatic fertilizers ..	14,884	27,940	13,852	23,988	14,534	12,240
Thailand—						
Superphosphates ..	858	788	2,783	3,030	2,013	3,030
Phosphatic fertilizers ..	7,519	11,317	18,209	26,996	36,755	26,935
Turkey—						
Phosphate-rock ..	18,433	18,572	32,823	r 114,412	91,056	98,941
Superphosphates ..	—	36,659	37,996	19,202	29,010	111,647
Vietnam (South)—						
Calcium phosphates ..	59,800	51,600	46,000	77,900	45,925	<i>n.a.</i>
Other phosphatic fertilizers ..	5,707	6,084	8,078	23,629	<i>n.a.</i>	<i>n.a.</i>

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

**PLATINUM**  
**PRODUCTION OF PLATINUM METALS**

Troy ounces

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Canada—						
Recovered from Ontario nickel-copper ores (c)						
Platinum .. ..	483,604	418,278	r 470,792	r 357,653	376,238	452,063
Other platinum metals						
Australia—						
New South Wales—						
Concentrates (Pt content) .. ..	4	2	2	4	—	—
New Guinea—						
Platinum .. ..	4	5	4	4	1	4
<b>OTHER COUNTRIES</b>						
U.S.S.R.—						
Crude platinum (d) ..	330,000	500,000	800,000	800,000	1,500,000	1,700,000
Ethiopia—						
Crude platinum ..	189	180	180	(d) 180	(d) 180	353
South Africa—						
Crude and matte (Pt metals content) (d)	400,000	350,000	300,000	300,000	600,000	750,000
Osmiridium (crude) (b)	6,334	5,769	5,603	5,185	4,135	3,820
United States (a)—						
New platinum metals recovered by refineries from crude platinum and gold and copper ores of domestic origin						
Platinum .. ..	10,232	17,155	14,244	20,818	15,608	11,376
Palladium .. ..	8,274	22,668	14,141	28,099	22,863	22,500
Iridium .. ..	810	1,284	739	1,381	2,423	1,414
Osmium .. ..	118	147	95	189	366	315
Rhodium .. ..	769	932	439	1,073	2,757	2,156
Ruthenium .. ..	163	306	146	398	286	400

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

	1960	1961	1962	1963	1964	1965
Platinum .. ..	33,861	51,218	71,817	54,084	66,043	53,562
Palladium .. ..	35,465	32,451	56,273	59,993	49,879	50,025
Iridium .. ..	914	193	767	440	764	960
Osmium .. ..	279	6	99	273	928	763
Rhodium .. ..	953	1,836	2,570	1,990	2,338	2,590
Ruthenium .. ..	385	267	576	319	195	625

(b) Sales.

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

(d) United States Bureau of Mines' estimate.

PRODUCTION OF PLATINUM METALS (cont.)

Troy ounces

Producing Country	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b> (cont.)						
Colombia (a)— Crude platinum ..	16,923	20,232	14,100	22,983	20,647	11,141
Japan— Platinum .. ..	1,396	2,247	1,872	1,714	2,199	2,788
Palladium .. ..	563	1,550	1,372	1,326	1,875	3,016
Philippine Republic— Platinum .. ..	—	177	172	—	—	—
Palladium .. ..	—	215	141	—	—	—
<b>WORLD'S TOTAL (b)</b>	<b>1,300,000</b>	<b>1,300,000</b>	<b>1,600,000</b>	<b>1,500,000</b>	<b>2,500,000</b>	<b>3,000,000</b>

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

(b) Estimated.

## EXPORTS OF PLATINUM\*

Troy ounces

Exporting Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—						
Platinum—						
Ingots, grain and powder ..	311,617	307,461	253,320	509,580	429,125	493,000
Other kinds (a) ..	37,583	39,616	58,018	76,307	79,084	89,000
Other platinum metals and alloys ..	308,309	363,471	259,998	279,899	273,418	324,000
Canada—						
Concentrates, etc. (b) ..	403,240	626,876	542,985	506,782	404,891	492,501
Platinum metals ..	<i>n.a.</i>	4,619	28,262	42,845	3,901	53,450
Scrap ..	701	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Australia (c)—						
Platinum and platinum group metals ..	369	677	101	417	548	423
OTHER COUNTRIES						
Austria—						
Unwrought platinum and platinum metals	12,700	1,157	579	354	514	804
Denmark—						
Rods, sheets, wire, scrap, etc. ..	32	<i>n.a.</i>	—	—	—	482
France—						
Unwrought platinum and scrap (a) ..	4,861	6,714	14,277	28,270	15,846	17,306
Palladium (inc. scrap)(a)	4,694	7,748	8,809	17,972	24,081	30,157
Drawn or rolled platinum ..	7,052	16,886	17,573	9,646	15,378	20,596
Germany (Federal)—						
Platinum metals (a) ..	61,491	90,439	123,041	121,147	174,061	332,242
Italy—						
Unwrought platinum ..	3,086	15,175	11,831	22,216	24,242	19,869
Netherlands—						
Unwrought platinum and platinum metals ..	5,787	21,541	8,359	22,120	8,552	20,706
Drawn or rolled ..	38,420	46,554	33,083	25,367	25,335	22,892
Norway—						
Platinum (incl. scrap) ..	15,465	10,706	15,786	10,610	18,551	18,004
Switzerland—						
Unwrought platinum ..	3,054	3,151	7,105	6,720	40,285	35,752

\*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	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
U.S.S.R. . . . .	(a)	(a)	(a)	(a)	(a)	(a)
South Africa—						
Crude platinum metals	} (£8,617,784)	} (£8,700,183)	} (£6,639,594)	} (£4,885,269)	n.a.	n.a.
Osmiridium . . . .						
United States—						
Ores, etc. ( <i>Pt content</i> ) . .	} 49,497	} 41,385	} 49,651	} 51,236	} 125,139	} 72,925
Ingots, sheets, wire, etc.						
Palladium, rhodium, etc. and alloys . . . .						
Colombia—						
Platinum . . . .	16,923	20,232	14,100	22,983	20,647	11,141

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

	1960	1961	1962	1963	1964	1965
United Kingdom . . . .	23,357	23,378	13,889	39,402	28,332	68,658
France . . . . .	25,688	49,470	87,808	56,824	67,034	17,755
Germany (Federal) . . . .	127,778	113,653	141,017	163,916	152,471	288,300
Netherlands . . . . .	20,448	30,479	27,264	35,655	26,267	13,214
United States . . . . .	111,105	227,632	113,989	230,855	145,519	504,812
Japan . . . . .	66,842	100,905	127,171	92,933	167,339	299,323



## IMPORTS OF PLATINUM\*

Troy ounces

Importing Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ores and concentrates	(£15,906,931)	(£15,806,086)	(£14,532,560)	(£12,506,237)	(£17,176,633)	<i>n.a.</i>
Platinum and platinum group metals .. .. .	76,033	89,344	99,373	78,474	100,739	148,000
Canada—						
Platinum and platinum group metals .. .. .	(£1,671,639)	(£500,864)	(£1,432,386)	(£1,141,090)	<i>n.a.</i>	<i>n.a.</i>
Nigeria—						
Platinum and platinum group metals .. .. .	—	—	—	7,712	2,356	9,976
Sierra Leone—						
Platinum and platinum group metals .. .. .	—	—	5	908	<i>n.a.</i>	58
Hong Kong—						
Platinum and platinum group metals .. .. .	5,219	5,588	10,632	15,427	18,007	19,140
India (a)—						
Platinum .. .. .	1,607	2,827	2,117	2,336	2,929	2,393
Malaya—						
Unwrought platinum ..	40	430	220	4,395	161	2,584
Sarawak—						
Platinum .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,197	584
Australia (b)—						
Platinum bars, rods, sheets, etc. .. .. .	604	784	362	138	410	802
Bars, rods, sheets, etc. of other platinum metals .. .. .	2,017	1,937	22	5	83	405
Platinum metal powder	5,780	669	1,071	2,914	3,850	2,585
Wire .. .. .	1,532	2,127	1,546	720	1,636	1,592
New Zealand—						
Platinum and platinum group metals .. .. .	2,027	2,874	2,763	(b) 2,557	(b) 1,980	<i>n.a.</i>
OTHER COUNTRIES						
Austria—						
Unwrought platinum and platinum metals	7,877	2,379	997	5,626	1,447	1,093
Denmark—						
Rods, sheets, wire and scrap .. .. .	2,058	1,640	1,800	1,865	2,379	6,400
Finland—						
Unwrought platinum etc.	6,398	8,809	21,380	4,003	<i>n.a.</i>	<i>n.a.</i>
France—						
Unwrought platinum, alloys and scrap ..	63,057	87,319	101,198	107,607	83,076	90,725
Unwrought palladium, alloys and scrap ..	29,096	31,218	52,084	61,729	66,648	64,129
Drawn or rolled platinum	378	703	10,352	2,266	4,921	9,679
Germany (Federal)—						
Platinum metals and alloys .. .. .	224,910	219,439	215,803	325,349	358,687	507,093
Italy—						
Unwrought platinum ..	15,593	33,823	33,790	33,019	43,082	63,819
Drawn or rolled ..	4,180	31,894	11,060	7,652	5,916	4,630
Other platinum metals	11,896	20,416	33,983	22,698	21,284	5,048

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

(a) Years ended March 31 following that stated.

(b) Years ended June 30 of that stated.

## IMPORTS OF PLATINUM (cont.)

Troy ounces

Importing Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES (cont.)						
Netherlands—						
Unwrought platinum and platinum metals ..	57,646	66,359	48,194	65,427	42,953	49,172
Drawn or rolled ..	6,623	11,639	12,732	12,539	22,827	32,548
Norway—						
Unwrought platinum ..	6,945	2,218	1,640	1,350	547	739
Drawn or rolled ..	1,254	1,198	1,244	1,377	932	2,508
Portugal—						
Sheets, wire, etc. ..	12	41	130	22	100	4,611
Spain—						
Bars, sheets, wire, etc. . .	1,039	6,559	4,083	32	1,134	n.a.
Switzerland—						
Unwrought platinum ..	24,402	26,524	32,569	42,117	49,866	28,003
Yugoslavia—						
Unwrought platinum ..	4,115	9,227	15,754	19,162	13,343	13,310
South Africa—						
Platinum .. ..	1,243	845	2,403	1,687	1,533	n.a.
Mexico—						
Platinum .. ..	204	240	149	17	133	n.a.
Palladium .. ..	2,063	2,088	3,679	3,428	4,968	n.a.
United States—						
Ore (a) .. ..	401	568	—	—	n.a.	n.a.
Grains and nuggets (a) ..	30,338	22,997	23,366	50,691	35,916	58,297
Sponge and scrap (a) (b)	134,122	110,057	n.a.	n.a.	n.a.	(c) 210,560
Ingots, bars, sheets (a) (b)	107,273	138,352	93,202	n.a.	114,174	132,139
Iridium .. ..	4,253	4,366	9,001	13,059	6,571	8,060
Osmium and osmiridium ..	277	3,067	1,086	2,091	3,947	4,257
Palladium .. ..	368,256	571,693	431,872	503,843	445,913	507,745
Rhodium and ruthenium ..	35,719	26,363	38,622	40,417	66,089	47,693
Brazil—						
Unwrought platinum ..	36	514	7,268	—	—	1,061
Palladium .. ..	23	900	1,125	—	—	—
Colombia—						
Unwrought platinum ..	129	1,254	932	64	129	64
Uruguay—						
Platinum metals ..	597	n.a.	n.a.	n.a.	n.a.	192
Venezuela—						
Unwrought platinum ..	53,049	3,762	13,310	36,523	12,603	3,697
Japan—						
Platinum .. ..	73,155	95,193	133,843	221,844	165,718	180,636
Palladium .. ..	56,465	96,541	87,494	147,070	168,287	260,524
Rhodium .. ..	2,199	1,605	1,711	2,950	4,127	4,325
Iridium, etc. .. ..	1,827	1,489	2,666	2,267	1,816	1,852
Lebanon—						
Unwrought platinum ..	3,903	2,861	4,559	2,875	2,780	n.a.
Turkey—						
Sheets .. ..	—	900	n.a.	3,440	96	32

(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:

	1960	1961	1962	1963	1964	1965
Sponge and scrap ..	3,095	r 9,933	6,185	7,647	(d) 5,127	(d) 4
Platinum metal ..	238,307	236,859	210,220	382,596	281,922	349,280

(c) Sponge only.

(d) Scrap only.



PRODUCTION OF POTASH (cont.)

Producing Country and Description	K <sub>2</sub> O Content or Equivalent										Long tons	
	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969		
OTHER COUNTRIES (cont.)												
Poland—Potash salts .. .. .	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	24,600	n.a.	n.a.	n.a.	n.a.	n.a.
Spain—Carnallite, sylvinite, etc.	1,642,926	1,695,397	1,553,577	1,819,025	2,117,145	3,216,970	283,903	260,386	295,683	339,209	384,579	384,579
U.S.S.R. (a)—Potash salts .. .. .	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	1,082,600	1,470,000	1,510,000	1,900,000	2,300,000	2,300,000
United States—Potash salts (b) .. .. .	3,993,000	4,133,000	3,721,000	4,349,000	4,423,000	4,822,000	2,355,870	2,190,108	2,557,176	2,586,600	2,804,000	2,804,000
Chile—Nitrate .. .. .	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	(a)14,700	17,447	(a)18,300	13,300	(a)14,000	(a)14,000
Israel—Chloride .. .. .	c(d)130,000	c(d)140,000	d 152,000	d 185,000	d 314,700	473,000	81,500	89,500	110,000	190,000	288,000	288,000
Japan—Alumite .. .. .	2,470	1,784	—	—	—	—	n.a.	—	—	—	—	—
WORLD'S TOTAL (c) .. .. .	9,300,000	9,900,000	9,900,000	11,000,000	12,100,000	13,700,000	9,900,000	9,900,000	11,000,000	12,100,000	13,700,000	13,700,000

(a) United States Bureau of Mines' estimate.

(b) Marketable production.

(c) Estimated.

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

## EXPORTS OF POTASH SALTS

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom—						
Nitrate .. .. .	} 48	255	35	12	104	143
Sulphate .. .. .						
Other compounds .. .. .						
India (a)—	4,312	4,117	4,473	n.a.	n.a.	n.a.
Nitrate .. .. .	39	8	8	5	3	3
Malaya—						
Fertilizer salts.. .. .	95	139	130	88	255	616
<b>OTHER COUNTRIES</b>						
Belgium-Luxemburg						
E.U.—						
Fertilizer salts .. .. .	2,029	3,962	595	344	25	317
Carbonate .. .. .	2,775	1,469	2,496	2,352	2,560	2,284
Chloride .. .. .	766,860	795,950	770,048	768,648	701,649	594,241
Chlorates .. .. .	—	—	1	6	10	—
Nitrate .. .. .	36	—	1	1	1	1
Sulphate .. .. .	265,584	279,715	250,789	286,197	262,756	314,030
Finland—						
Chlorate.. .. .	48	77	39	—	—	—
France—						
Sylvinite, etc. .. .. .	276,792	240,880	137,666	72,043	90,037	90,698
Carbonate .. .. .	12,165	13,916	13,154	16,165	20,638	19,461
Caustic potash .. .. .	10,126	9,820	11,111	10,459	11,774	9,926
Chlorate.. .. .	903	1,198	1,055	13,109	1,268	1,351
Chloride .. .. .	1,094,430	1,228,067	1,028,710	1,082,522	1,187,890	1,008,291
Sulphate .. .. .	38,739	10,830	13,291	11,327	5,795	1,362
Nitrate .. .. .	1,653	2,079	2,322	2,762	2,076	1,935
Germany (Federal)—						
Fertilizer salts .. .. .	1,568,379	1,650,061	1,343,640	1,507,028	1,542,227	1,970,886
Carbonate .. .. .	6,864	7,485	6,984	7,967	10,039	10,184
Caustic potash .. .. .	n.a.	n.a.	n.a.	11,690	12,108	12,173
Chlorate .. .. .	351	736	597	542	545	497
Nitrate .. .. .	13,082	11,582	12,254	12,746	14,305	13,949
Germany (East)—						
Fertilizer salts						
(K <sub>2</sub> O content) .. .. .	1,075,000	1,030,000	1,129,000	1,143,000	1,199,000	1,271,000
Carbonate .. .. .	8,753	7,946	9,614	9,910	9,508	10,095
Caustic potash .. .. .	6,563	5,904	5,640	6,422	7,156	8,239
Italy—						
Nitrate .. .. .	606	971	925	910	80	999
Caustic potash .. .. .	1,417	1,750	3,455	4,162	2,631	1,969
Sulphate .. .. .	5,116	58,304	55,362	75,391	85,029	111,622
Netherlands—						
Carbonate .. .. .	101	57	93	1,248	844	401
Caustic potash .. .. .	17	10	10	32	37	44
Chloride .. .. .	1,267	643	738	786	461	766
Nitrate .. .. .	68	84	134	70	104	421
Sulphate .. .. .	362	233	373	518	497	767
Poland—						
Caustic potash .. .. .	1,170	1,729	n.a.	1,388	899	820
Chlorate .. .. .	459	739	n.a.	645	900	785
Portugal—						
Caustic potash .. .. .	—	9	9	7	336	5
Chloride .. .. .	850	161	94	60	253	249
Sulphate .. .. .	60	49	43	89	255	1,192

(a) Years ended March 31 following that stated.

## EXPORTS OF POTASH SALTS (cont.)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Spain—						
Chloride .. ..	354,176	288,349	225,113	253,374	305,150	388,981
Sweden—						
Carbonate .. ..	4	—	1	—	—	—
Caustic potash .. ..	2,703	2,491	2,278	2,462	2,770	2,794
U.S.S.R.—						
Fertilizer salts .. ..	619,000	749,600	863,800	976,500	742,300	812,500
United States—						
Chloride .. ..	698,323	644,614	717,856	593,113	821,407	815,661
Other fertilizer salts .. ..	29,821	48,981	39,241	38,171	95,062	123,897
Caustic potash .. ..	3,262	2,087	3,246	3,627	5,233	5,040
Other compounds .. ..	11,296	23,927	8,223	<i>n.a.</i>	14,017	36,289
Chile—						
Nitrate .. ..	53,545	67,301	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	96,221
Israel—						
Fertilizer salts .. ..	118,549	72,264	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	(a) 6,542
Chloride .. ..	985	80,368	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Chlorate .. ..	539	688	873	1,365	971	1,070
Chloride .. ..	1,850	6,604	3,520	5,665	10,005	11,276
Sulphate .. ..	2,291	2,153	105	267	297	5,973

(a) Potassium sulphate only.

IMPORTS OF POTASH SALTS

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
<b>United Kingdom—</b>						
Fertilizer salts .. ..	41,976	52,997	52,165	28,855	37,025	37,645
Carbonate .. ..	6,943	5,535	4,719	5,836	8,374	7,925
Caustic potash and lyes	2,042	1,937	1,832	<i>n.a.</i>	2,327	2,405
Chlorate .. ..	1,099	1,031	1,077	<i>n.a.</i>	( <i>a</i> )	( <i>a</i> )
Chloride .. ..	711,972	693,156	666,464	680,098	660,597	679,706
Nitrate .. ..	2,683	3,368	3,434	2,793	3,029	<i>n.a.</i>
Sulphate .. ..	22,819	21,710	23,995	27,742	33,636	33,022
Other compounds ..	4,056	3,210	6,557	13,975	6,983	2,912
<b>Ghana—</b>						
Fertilizer salts .. ..	510	672	455	1,075	1,301	263
<b>Kenya—</b>						
Fertilizer salts .. ..	80	30	28	376	155	276
<b>Mauritius—</b>						
Fertilizer salts .. ..	9,296	8,450	11,143	13,304	12,988	7,912
<b>Nigeria—</b>						
Fertilizer salts .. ..	1,799	1,394	1,341	655	835	3,222
<b>Rhodesia (b)—</b>						
Fertilizer salts .. ..	28,958	28,973	26,263	31,005	37,342	29,013
Compounds .. ..	529	351	680	430	220	177
<b>Sierra Leone—</b>						
Fertilizer compounds ..	21	11	76	374	5	—
<b>Tanzania—</b>						
Fertilizer salts .. ..	609	537	667	1,659	898	1,344
<b>Uganda—</b>						
Fertilizer salts .. ..	136	521	2,835	1,981	1,685	367
<b>Canada—</b>						
Caustic potash .. ..	3,937	1,524	1,482	1,936	1,629	1,620
Chlorate .. ..	35	45	52	21	<i>n.a.</i>	<i>n.a.</i>
Crude chloride .. ..	130,969	151,587	132,119	66,137	59,855	48,047
Nitrate .. ..	662	818	815	760	789	1,308
Crude sulphate .. ..	21,378	23,641	21,412	16,888	17,463	16,601
Other compounds .. ..	6,321	6,393	5,922	4,698	<i>n.a.</i>	8,081
<b>Antigua—</b>						
Fertilizer salts .. ..	92	5	2,928	<i>n.a.</i>	—	—
<b>Barbados—</b>						
Fertilizer salts .. ..	3,585	6,535	3,372	4,204	7,763	3,122
<b>Grenada—</b>						
Fertilizer salts .. ..	153	266	50	150	81	30
<b>Jamaica—</b>						
Fertilizer salts .. ..	4,539	5,434	2,121	6,430	10,151	6,639
<b>St. Kitts—</b>						
Potassic fertilizers ..	1,105	952	855	1,116	985	1,001
<b>St. Lucia—</b>						
Potassic fertilizers ..	157	100	200	586	745	455
<b>St. Vincent—</b>						
Chloride .. ..	27	7	7	83	15	912
<b>Trinidad and Tobago—</b>						
Chloride and sulphate ..	1,794	3,300	2,755	2,966	2,668	<i>n.a.</i>
<b>British Guiana—</b>						
Fertilizer salts .. ..	2,355	3,625	3,862	<i>n.a.</i>	2,005	1,235
<b>Ceylon—</b>						
Kainite and sylvinite ..	245	417	100	120	382	—
Chloride .. ..	39,054	47,483	38,516	60,569	47,879	57,050
Nitrate of potash refuse	28	2	108	100	22	—
Sulphate .. ..	2,750	315	120	195	2,135	428
<b>Cyprus—</b>						
Fertilizer salts .. ..	512	507	468	385	273	494
<b>Hong Kong—</b>						
Nitrate .. ..	<i>r</i> 189	<i>r</i> 299	<i>r</i> 684	<i>r</i> 626	423	404
Chlorate .. ..	<i>r</i> 39	<i>r</i> 90	<i>r</i> 99	<i>r</i> 72	66	88
Other fertilizer salts ..	<i>r</i> 615	<i>r</i> 326	47	27	18	16

(a) Included, if any, with "Other compounds". (b) Figures for years 1960 to 1963 relate to Rhodesia and Nyasaland.

## IMPORTS OF POTASH SALTS (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
<i>(cont.)</i>						
India (a)—						
Carbonate .. ..	630	1,207	1,227	1,172	1,224	1,086
Caustic potash .. ..	2,222	2,488	2,480	3,304	3,649	2,910
Nitrate .. ..	11	6	19	2	2	—
Sulphate .. ..	10,847	8,812	3,218	4,242	10,538	6,379
Chlorate .. ..	7	2	—	74	—	11
Chloride .. ..	22,535	43,815	76,661	69,684	75,315	123,224
Malaya—						
Fertilizer salts .. ..	16,538	13,001	15,285	22,327	24,001	34,768
Pakistan—						
Chlorate .. ..	516	694	599	145	1,157	n.a.
Other compounds .. ..	766	n.a.	n.a.	87	176	n.a.
Sabah—						
Fertilizer salts .. ..	118	157	155	9	657	353
Sarawak—						
Fertilizer salts .. ..	25	30	552	443	898	1,434
Australia (c)—						
Carbonate .. ..	1,117	679	774	969	993	1,223
Caustic potash .. ..	981	805	898	969	1,099	1,426
Chloride .. ..	31,573	45,109	65,214	47,472	84,864	101,098
Nitrate .. ..	451	519	355	424	403	470
Sulphate .. ..	4,574	7,417	8,842	10,343	11,361	7,926
Other compounds .. ..	1,019	1,240	365	353	319	480
New Zealand—						
Chloride .. ..	82,383	120,366	96,945	100,460	(c) 96,862	(c) 143,223
Nitrate .. ..	128	196	116	(c) 128	(c) 166	(c) 129
Sulphate .. ..	3,422	3,595	2,687	3,671	(c) 3,673	(c) 4,503
Other fertilizer salts .. ..	140	248	7,873	1,080	(c) 27,091	n.a.
Compounds other than fertilizer .. ..	300	340	241	(c) 165	(c) 178	n.a.
Irish Republic—						
Fertilizer salts .. ..	1,741	3,082	3,322	r 4,986	4,548	244
Chloride .. ..	107,401	117,434	142,720	158,217	154,772	147,820
Other compounds .. ..	604	591	811	235	192	10,022
<b>OTHER COUNTRIES</b>						
Austria—						
Fertilizer salts .. ..	212,166	232,236	228,394	240,502	231,337	208,586
Caustic potash .. ..	429	397	385	435	418	378
Carbonate .. ..	763	968	821	966	1,050	816
Chloride .. ..	6,098	6,871	28,017	39,313	59,607	65,093
Nitrate .. ..	367	428	320	399	385	507
Sulphate .. ..	12,624	9,639	10,564	14,471	11,808	25,750
Belgium-Luxemburg						
E.U.—						
Fertilizer salts .. ..	185,644	223,108	190,310	65,290	78,293	85,284
Carbonate .. ..	1,084	866	997	899	974	1,263
Chlorates .. ..	544	591	298	482	522	470
Chloride .. ..	1,165,682	1,269,205	1,158,098	1,108,101	1,257,902	1,297,205
Nitrate .. ..	2,007	2,279	2,156	2,631	2,809	2,607
Sulphate (b) .. ..	17,682	24,246	20,837	22,944	18,545	26,725
Czechoslovakia—						
Fertilizer salts ( $K_2O$ content) .. ..	213,900	198,000	233,000	249,000	343,000	353,000

(a) Years ended March 31 following that stated.

(c) Years ended June 30 of that stated.

(b) Including patent potash.



## IMPORTS OF POTASH SALTS (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
<b>Denmark—</b>						
Carbonate .. ..	304	379	363	354	393	369
Caustic potash .. ..	1,148	1,000	1,019	960	1,106	997
Chlorate .. ..	125	91	76	106	110	108
Chloride .. ..	326,710	371,940	281,323	279,700	278,982	275,469
Nitrate .. ..	1,188	879	1,034	1,206	1,335	1,295
Sulphate .. ..	1,874	1,833	2,238	1,963	2,696	1,363
<b>Finland—</b>						
Fertilizer salts .. ..	170,500	125,176	127,210	128,797	133,249	204,223
Carbonate .. ..	415	407	513	522	427	474
Caustic potash .. ..	168	215	301	203	266	274
Nitrate .. ..	140	263	383	168	528	552
Sulphate .. ..	n.a.	6,765	9,681	8,785	9,725	16,139
<b>France—</b>						
Chloride .. ..	8,829	—	1,467	—	69	4,658
Sulphate .. ..	10,624	19,441	40,936	47,942	55,622	60,392
Caustic potash .. ..	113	70	74	88	141	122
Patent potash .. ..	2,709	4,409	4,784	5,356	7,509	6,590
<b>Germany (Federal)—</b>						
Fertilizer salts .. ..	27,412	27,934	36,327	47,807	47,437	48,408
Carbonate .. ..	409	1,439	1,678	5,647	5,273	5,594
Caustic potash .. ..	572	621	718	813	2,526	3,959
Chlorate .. ..	650	599	1,074	959	589	596
Nitrate .. ..	337	756	1,069	1,188	2,202	3,019
<b>Greece—</b>						
Carbonate .. ..	610	677	1,076	1,497	1,071	1,052
Caustic potash .. ..	19	57	29	47	32	64
Nitrate .. ..	123	89	95	79	104	167
Sulphate .. ..	12,686	20,475	15,835	22,192	19,230	36,372
<b>Hungary—</b>						
Fertilizer salts .. ..	73,723	114,259	195,475	214,385	200,103	196,000
<b>Iceland—</b>						
Fertilizer salts .. ..	3,751	2,999	5,167	4,676	8,030	11,081
Carbonate .. ..	11	8	16	59	88	83
Caustic potash .. ..	35	30	53	66	71	59
<b>Italy—</b>						
Fertilizer salts .. ..	60,550	47,483	37,657	37,389	39,802	35,765
Carbonate .. ..	3,941	4,016	4,408	3,653	3,202	4,199
Caustic potash .. ..	2,518	1,678	1,411	1,059	707	577
Chloride .. ..	154,492	105,549	154,643	130,094	167,908	157,903
Nitrate .. ..	1,240	758	727	1,027	2,061	1,501
Sulphate .. ..	39,684	20,244	11,632	8,531	9,799	5,802
<b>Netherlands—</b>						
Kainite .. ..	39,228	23,098	22,271	25,236	40,753	40,058
Fertilizer salts						
(20% K <sub>2</sub> O)	40,238	25,001	17,144	26,833	37,948	45,570
do. (40% K <sub>2</sub> O)	194,019	152,510	120,810	132,461	159,654	161,684
Carbonate .. ..	6,950	5,156	6,306	7,081	6,576	7,019
Caustic potash .. ..	6,374	8,163	7,939	17,834	55,689	60,622
Chloride .. ..	67,947	89,881	104,518	112,758	123,585	128,540
Nitrate .. ..	1,293	1,841	2,477	2,807	2,914	3,146
Sulphate .. ..	47,326	46,291	64,275	53,672	66,567	72,007
Patent potash .. ..	49,363	44,296	44,093	47,365	45,857	42,257
<b>Norway—</b>						
Fertilizer salts .. ..	818	409	307	516	295	352
Carbonate .. ..	312	708	329	r 308	336	332
Caustic potash .. ..	1,323	1,276	1,265	1,350	1,325	1,301
Chlorate .. ..	154	132	137	126	126	142
Chloride .. ..	75,760	76,164	81,004	100,407	111,246	116,061
Nitrate .. ..	164	156	215	r 178	164	240
Sulphate .. ..	17,283	12,935	4,435	9,178	10,068	6,240

## IMPORTS OF POTASH SALTS (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Poland						
Fertilizer salts .. ..	808,900	791,200	<i>n.a.</i>	735,694	(b) 970,500	(b) 1,253,000
Carbonate .. ..	246	1,471	<i>n.a.</i>	1,713	2,030	5,342
Chloride .. ..	9,457	11,538	<i>n.a.</i>	14,271	(a)	(a)
Sulphate .. ..	2,183	2,911	<i>n.a.</i>	3,364	(a)	(a)
Portugal—						
Carbonate .. ..	125	62	144	109	170	84
Caustic potash .. ..	56	100	707	257	320	295
Chlorate .. ..	227	214	220	178	195	220
Chloride .. ..	9,818	14,003	13,890	21,398	21,975	30,767
Nitrate .. ..	321	402	291	296	286	430
Sulphate .. ..	544	1,595	1,132	1,329	2,177	2,581
Roumania—						
Fertilizer salts (c) ..	3,900	11,800	10,100	5,700	8,700	13,100
Sweden—						
Fertilizer salts						
(40% K <sub>2</sub> O)	} 2,057	448	736	826	838	503
do. (other) .. ..						
Carbonate .. ..	1,408	920	890	966	1,012	962
Caustic potash .. ..	287	212	260	246	299	758
Chloride .. ..	152,547	137,821	144,294	134,849	144,780	171,941
Nitrate .. ..	976	873	1,129	1,005	1,122	1,206
Sulphate .. ..	13,843	13,646	13,673	20,602	29,660	19,095
Switzerland—						
Fertilizer salts .. ..	102,369	96,104	101,437	104,111	108,571	116,106
Carbonate .. ..	1,995	1,760	2,114	1,933	2,520	2,505
Caustic potash .. ..	2,227	2,143	2,033	1,483	1,705	1,494
Nitrate .. ..	737	560	768	839	880	743
Sulphate .. ..	1,331	1,037	950	540	921	866
U. S. S. R.—						
Caustic potash .. ..	4,300	3,100	2,700	6,600	7,200	9,400
Yugoslavia—						
Fertilizer salts .. ..	139,234	75,664	107,166	289,531	370,326	152,888
Caustic potash .. ..	335	636	482	738	746	635
Chloride .. ..	27,749	35,226	13,367	19,080	17,000	16,922
Sulphate .. ..	2,574	4,234	4,178	2,928	2,011	4,408
Algeria—						
Chloride .. ..	12,233	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sulphate .. ..	9,753	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Carbonate .. ..	32	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Caustic potash .. ..	46	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Nitrate .. ..	151	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Angola—						
Chloride .. ..	229	553	457	576	865	343
Sulphate .. ..	226	200	79	183	103	1,113
Cameroun—						
Fertilizer salts .. ..	1,722	2,212	2,010	782	4,049	7,013
Canary Islands—						
Fertilizer salts .. ..	81	—	—	—	—	1,154
Congo, Republic of—						
Fertilizer salts .. ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	2,395	705
Egypt—						
Fertilizer salts .. ..	1,968	—	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Carbonate .. ..	298	272	401	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Caustic potash .. ..	256	383	37	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Chlorate .. ..	268	256	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Malagasy Republic—						
Fertilizer salts .. ..	1,159	946	382	694	518	<i>n.a.</i>
Morocco—						
Chloride .. ..	4,396	5,063	4,214	4,672	4,264	4,193
Sulphate .. ..	3,203	7,513	6,877	8,001	6,639	10,127
Reunion—						
Fertilizer salts .. ..	1,951	2,154	755	1,092	2,416	1,622

(a) Included with fertilizer salts.

 (c) K<sub>2</sub>O content.

(b) Including chloride and sulphates.

## IMPORTS OF POTASH SALTS (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
<b>South Africa—</b>						
Fertilizer salts .. ..	58,888	65,169	80,305	116,573	121,361	68,800
Nitrate .. ..	329	605	849	1,273	<i>n.a.</i>	<i>n.a.</i>
Caustic potash .. ..	382	283	376	307	421	452
Chloride .. ..	2,992	—	—	—	<i>n.a.</i>	<i>n.a.</i>
Other compounds .. ..	1,235	1,147	1,248	1,163	<i>n.a.</i>	<i>n.a.</i>
<b>Sudan—</b>						
Caustic potash .. ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	67	75	1
<b>Tunisia—</b>						
Fertilizer salts .. ..	4,224	2,477	4,426	5,063	6,411	1,722
Caustic potash .. ..	13	2,340	2,203	2,836	3,841	113
<b>Costa Rica—</b>						
Fertilizer salts .. ..	550	968	3,000	671	2,732	11,140
<b>Dominican Republic—</b>						
Chloride .. ..	3,344	4,348	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
<b>French West Indies—</b>						
<b>Guadeloupe—</b>						
Fertilizer salts .. ..	11,071	7,235	5,788	3,079	3,409	373
<b>Martinique—</b>						
Fertilizer salts .. ..	9,114	7,686	6,059	4,161	4,624	3,708
<b>Guatemala—</b>						
Fertilizer salts .. ..	745	82	68	73	824	25,945
<b>Honduras—</b>						
Fertilizer salts .. ..	24	88	1,820	1,711	5,896	6,166
<b>Mexico—</b>						
Carbonate .. ..	353	440	476	578	429	<i>n.a.</i>
Chloride .. ..	9,878	13,981	20,790	19,986	26,961	<i>n.a.</i>
Caustic potash .. ..	375	482	533	497	710	<i>n.a.</i>
Sulphate .. ..	1,480	100	11	8	12	<i>n.a.</i>
<b>Nicaragua—</b>						
Fertilizer salts .. ..	128	165	444	361	759	4,369
<b>Panama Republic—</b>						
Fertilizer salts .. ..	281	450	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
<b>Salvador—</b>						
Fertilizer salts .. ..	2,616	1,083	902	1,129	431	3,832
<b>United States—</b>						
Carbonate .. ..	536	159	103	228	425	55
Caustic potash .. ..	594	856	1,125	932	824	868
Chlorates .. ..	415	392	601	704	681	511
Chloride .. ..	292,433	296,343	407,650	788,153	1,067,604	1,589,537
Cyanide .. ..	792	681	858	774	942	988
Nitrate .. ..	2,739	3,961	5,646	7,110	5,294	4,377
Potassium-sodium						
nitrate mixtures .. ..	16,636	12,322	24,376	34,000	12,052	6,615
Sulphate .. ..	58,133	80,512	99,322	92,593	60,029	47,619
<b>Argentina—</b>						
Carbonate .. ..	580	561	235	388	649	419
Caustic potash .. ..	543	484	432	794	3,330	1,059
Chlorate .. ..	596	1,096	419	461	404	92
Nitrate .. ..	156	68	2	—	15	—
Sulphate .. ..	85	355	98	20	493	49
<b>Brazil—</b>						
Caustic potash .. ..	592	553	907	1,541	733	577
Nitrate .. ..	1,337	749	802	777	750	894
Nitrate of potash and						
soda .. ..	15,841	2,989	12,104	16,429	7,171	21,296

## IMPORTS OF POTASH SALTS (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES						
<i>(cont.)</i>						
Brazil <i>(cont.)</i> —						
Chloride .. ..	166,491	109,374	104,082	144,184	108,759	152,903
Sulphate .. ..	6,197	7,333	6,266	4,232	4,218	5,996
Carbonate .. ..	543	523	541	891	455	446
Chlorate .. ..	—	20	—	10	—	—
Chile—						
Caustic potash .. ..	201	122	118	319	<i>n.a.</i>	<i>n.a.</i>
Chlorate .. ..	79	60	12	2,163	<i>n.a.</i>	<i>n.a.</i>
Chloride .. ..	394	1,669	1,472	1,890	<i>n.a.</i>	<i>n.a.</i>
Sulphate .. ..	3,785	8,411	6,538	5,064	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Chlorate .. ..	207	370	224	362	280	194
Chloride .. ..	12,746	14,671	15,691	29,593	38,432	30,968
Nitrate .. ..	205	247	208	401	196	87
Sulphate .. ..	3,592	3,710	1,771	4,444	4,361	5,076
Other fertilizer salts .. ..	99	143	—	—	—	4,515
Peru—						
Fertilizer salts .. ..	3,617	2,364	4,045	2,332	1,780	9,830
Nitrate .. ..	129	76	62	9	95	156
Carbonate .. ..	43	28	45	38	20	32
Chloride .. ..	28	24	110	35	96	60
Caustic potash .. ..	29	27	34	18	28	21
Uruguay—						
Nitrate .. ..	111	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	7
Caustic potash .. ..	443	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	49
Venezuela—						
Carbonate .. ..	37	69	61	23	47	46
Chlorate .. ..	164	317	164	116	239	247
Chloride .. ..	2,540	2,740	1,970	2,288	4,905	5,020
Nitrate .. ..	137	172	105	210	177	140
Sulphate .. ..	7,363	7,021	5,746	4,145	7,698	19,438
Burma—						
Fertilizer salts .. ..	—	—	414	257	351	—
Formosa—						
Fertilizer salts .. ..	76,862	42,792	49,878	46,730	92,990	88,844
Indonesia—						
Fertilizer salts .. ..	18,311	13,434	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Nitrate .. ..	181	76	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Iran (a)—						
Fertilizer salts .. ..	<i>n.a.</i>	3,141	704	1,477	689	—
Iraq—						
Fertilizer salts .. ..	344	247	615	200	311	<i>n.a.</i>
Japan—						
Kainite, etc. .. ..	—	492	1,279	5,445	16,513	19,203
Chloride .. ..	903,292	918,040	691,305	952,460	976,434	961,080
Sulphate .. ..	87,243	136,189	38,398	99,268	65,531	86,093
Jordan—						
Fertilizer salts .. ..	2,001	1,648	766	1,488	4,016	5,905
Korea (South)—						
Chloride .. ..	7,468	1	8,084	41,993	44,883	55,516
Other fertilizer salts .. ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	53,261	9,879	39,856
Lebanon—						
Fertilizer salts .. ..	3,700	3,792	3,608	3,489	4,596	<i>n.a.</i>
Philippine Republic—						
Caustic potash .. ..	65	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Chlorate .. ..	711	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Nitrate .. ..	3,512	<i>n.a.</i>	<i>n.a.</i>	28	218	<i>n.a.</i>
Sulphate .. ..	2,814	<i>n.a.</i>	2,686	4,592	1,105	<i>n.a.</i>
Other fertilizer salts .. ..	13,700	33,855	40,156	9,021	37,656	<i>n.a.</i>

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

## IMPORTS OF POTASH SALTS (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Thailand—						
Chlorate .. ..	295	177	301	143	187	143
Chloride .. ..	415	64	72	53	984	48
Nitrate .. ..	787	705	743	933	855	933
Sulphate .. ..	463	305	886	937	787	1,448
Turkey—						
Carbonate .. ..	1,125	1,687	1,150	648	706	1,108
Caustic potash .. ..	213	379	363	246	355	467
Chlorates .. ..	158	70	221	170	156	434
Sulphate .. ..	1	31	1,547	570	541	6,112
Vietnam (South)—						
Fertilizer salts .. ..	7,666	15,399	7,597	11,600	<i>n.a.</i>	<i>n.a.</i>

## PYRITES

### PRODUCTION OF PYRITES

(see also Sulphur)

(including Cupreous Pyrites)

Long tons

Producing Country	Estimated Sulphur Content											
	1960	1961	1962	1963	1964	1965	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>												
United Kingdom ..	132	164	26,988	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Rhodesia ..	49,298	58,442	50,456	65,055	81,129	n.a.	18,700	22,200	19,200	n.a.	n.a.	n.a.
Canada (c) ..	921,686	461,837	461,882	425,391	314,152	315,007	390,884	228,014	229,539	210,187	154,627	160,000
Cyprus ..	914,232	824,771	809,263	r 907,940	673,786	977,829	445,000	398,000	388,000	442,000	324,000	474,000
Australia (b) ..	238,630	213,423	148,566	194,059	220,078	215,510	114,500	102,100	65,100	84,600	94,600	95,000
TOTAL ..	2,123,978	1,558,637	1,497,155	1,600,000	1,300,000	1,600,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Irish Republic ..	21,666	49,921	37,229	—	—	—	n.a.	n.a.	n.a.	—	—	—
<b>OTHER COUNTRIES</b>												
Bulgaria (b) ..	116,638	119,785	140,056	127,880	144,500	n.a.	49,000	50,000	59,000	54,000	61,000	n.a.
Czechoslovakia (b) ..	384,000	363,000	395,000	342,000	355,000	369,000	149,000	141,000	153,000	133,000	140,000	142,000
Finland (b) ..	256,000	270,043	r 467,171	r 532,556	542,517	576,184	108,000	114,000	118,000	224,000	260,000	280,000
France (d) ..	272,717	280,930	299,153	248,325	188,319	132,239	116,562	117,769	124,592	106,785	78,434	55,887
Germany (Federal) ..	498,795	501,475	380,717	351,813	419,081	438,984	184,401	194,057	148,133	145,474	176,843	183,392
Germany (East) ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	46,000	40,000	41,000	43,000	41,000	43,000
Greece ..	161,407	184,917	141,891	r 110,866	138,000	n.a.	75,000	86,000	66,000	52,000	62,000	n.a.
Italy ..	1,522,965	1,555,229	r 1,558,970	r 1,380,224	1,374,523	1,379,396	694,000	716,000	721,000	r 640,000	640,000	640,000
Norway ..	819,562	721,808	797,077	710,052	708,040	697,675	356,000	319,000	355,000	323,000	317,000	313,000
Poland ..	223,000	198,000	219,000	213,000	230,000	n.a.	83,000	76,000	82,000	85,000	87,000	n.a.
Portugal ..	644,578	642,609	631,164	592,559	597,808	603,703	296,506	295,600	290,336	272,577	274,991	277,704
Roumania ..	263,000	259,000	300,000	328,000	403,000	n.a.	105,000	103,000	120,000	131,000	160,000	n.a.

(a) Saleable.

(b) Pyrite concentrate.

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

(d) In addition the sulphur content of mispickel and auriferous pyrites was as follows (long tons): 1960—8,988; 1961—8,217; 1962—9,018; 1963—9,314; 1964—8,033; 1965—9,665

PRODUCTION OF PYRITES (cont.)

Producing Country	Estimated Sulphur Content										Long tons	
	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969		
<b>OTHER COUNTRIES</b>												
<i>(cont.)</i>												
Spain ..	2,217,233	2,096,877	2,095,432	1,995,226	2,355,423	2,347,126	1,053,000	1,001,000	997,000	1,117,000	1,117,000	1,055,000
Sweden ..	406,361	431,322	371,683	396,260	445,239	434,400	205,591	220,424	188,967	227,524	227,524	220,000
U.S.S.R. (c) ..	2,756,000	2,756,000	2,953,000	3,149,000	3,149,000	3,200,000	1,457,000	1,457,000	1,565,000	1,673,000	1,673,000	1,700,000
Yugoslavia (d) ..	410,000	358,000	407,000	350,000	421,000	401,000	164,000	143,000	163,000	140,000	168,000	160,000
Algeria ..	37,892	48,085	42,000	37,154	59,994	55,978	17,400	22,000	19,000	17,000	28,000	26,000
Morocco ..	13,226	13,855	20,417	22,777	20,885	18,029	5,000	5,000	7,000	6,000	6,000	5,000
South Africa ..	492,173	439,751	434,030	411,943	425,647	421,532	212,000	176,000	174,000	152,000	164,000	158,000
Cuba ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
United States (b) ..	1,016,263	987,309	915,890	824,800	847,495	874,959	416,213	398,519	379,046	343,566	353,832	353,646
China (c) ..	984,000	984,000	1,083,000	1,181,000	1,279,000	1,500,000	443,000	443,000	492,000	531,000	575,000	660,000
Formosa ..	42,318	46,717	44,772	46,021	45,592	38,640	15,900	17,500	16,800	17,300	17,100	14,500
Japan (d) ..	2,278,185	2,476,924	2,539,396	2,514,762	2,728,646	<i>n.a.</i>	1,036,740	1,132,112	1,170,121	1,163,690	1,261,439	<i>n.a.</i>
Korea (South) ..	1,058	723	—	r 37	59	168	<i>n.a.</i>	300	—	17	27	<i>n.a.</i>
Korea (North) (c) ..	246,000	295,000	344,000	394,000	413,000	440,000	98,000	118,000	138,000	157,000	167,000	180,000
Philippine Republic ..	25,000	50,776	55,409	57,138	43,218	103,630	11,900	24,000	27,000	20,000	20,000	48,000
Turkey ..	41,617	96,863	105,389	95,549	111,307	130,072	20,000	46,000	51,000	46,000	51,000	60,000
TOTAL* ..	16,300,000	16,300,000	16,900,000	16,600,000	17,600,000	18,000,000	8,400,000	8,200,000	r8,400,000	8,400,000	8,700,000	9,000,000
WORLD'S TOTAL*	18,400,000	17,900,000	18,400,000	18,200,000	18,900,000	20,000,000	8,400,000	8,200,000	r8,400,000	8,400,000	8,700,000	9,000,000

\*Excluding pyrites known to have been produced in Brazil.

(a) Concentrates.

(b) Including by-product pyrites.

(c) United States Bureau of Mines' estimate.

(d) Including pyrrhotite.

EXPORTS OF PYRITES

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
Canada (a) .. ..	(£462,923)	(£316,927)	(£297,827)	(£310,557)	(£291,585)	(£324,653)
Cyprus—						
Iron pyrites .. ..	815,412	822,263	790,020	748,786	724,138	701,162
Cupreous pyrites .. ..	248,931	138,477	105,622	103,848	86,128	173,513
OTHER COUNTRIES						
Austria .. ..	27,102	18,285	3,925	—	131	—
Belgium-Luxemburg						
E.U. .. ..	—	828	—	—	—	929
Finland—						
Concentrate .. ..	124,984	68,047	69,889	53,761	77,458	61,653
Germany (Federal) .. ..	1,225	591	1	12	32	81
Greece .. ..	51,882	16,643	46,710	43,995	56,577	7,736
Italy—						
Iron pyrites .. ..	} 232,912	223,990	155,768	100,245	46,804	51,739
Cupreous pyrites .. ..						
Netherlands—						
Iron pyrites .. ..	435,932	225,388	120,076	118,495	244,879	254,159
Norway .. ..	458,782	431,799	550,880	r 636,594	622,815	576,702
Portugal—						
Iron pyrites .. ..	336,879	260,980	287,469	269,668	289,552	313,599
Cupreous pyrites .. ..	1,967	2,241	2,102	2,153	172	—
Spain—						
Iron pyrites .. ..	} 1,206,407	1,017,327	1,006,004	1,015,116	1,198,642	1,149,427
Cupreous pyrites .. ..						
Sweden .. ..	28,916	40,169	23,511	13,833	20,907	13,009
U.S.S.R. .. ..	870,000	652,500	768,700	1,000,000	927,100	1,213,000
Yugoslavia .. ..	338,701	271,474	289,346	276,646	107,723	159,041
Algeria .. ..	16,849	31,953	34,144	32,381	31,642	35,313
Morocco .. ..	1,968	n.a.	177	5,948	n.a.	3,889
Turkey .. ..	51,582	89,988	108,938	84,145	94,139	121,213

(a) Sulphur in ores (pyrite).



## IMPORTS OF PYRITES

Long tons

Importing Country	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom ..	269,981	267,719	281,527	200,323	284,306	224,687
Irish Republic .. ..	31,605	15,913	2,638	1,381	3,060	2,171
OTHER COUNTRIES						
Austria .. .. .	64,699	53,094	30,126	24,409	29,616	27,243
Belgium-Luxemburg						
E.U. .. .. .	422,917	331,394	313,586	297,329	277,572	263,844
Czechoslovakia (a) ..	50,000	43,000	68,000	108,000	129,000	118,000
Denmark .. .. .	150,184	124,156	134,388	130,380	132,535	140,465
France .. .. .	473,394	464,090	432,379	389,375	363,157	345,434
Germany (Federal) ..	1,691,849	1,263,767	1,315,889	1,476,010	1,576,463	1,523,811
Germany (East) (a) ..	120,635	108,376	92,638	88,653	138,223	109,877
Hungary .. .. .	122,626	100,077	91,660	122,248	204,246	143,000
Italy .. .. .	300,377	523,877	679,026	754,010	840,611	916,883
Netherlands .. .. .	372,737	289,661	245,552	237,071	252,535	207,479
Poland .. .. .	40,400	59,700	n.a.	23,900	31,000	8,632
Sweden .. .. .	95,617	92,191	82,120	62,922	29,464	81,403
Switzerland .. .. .	41,621	53,872	34,450	36,735	31,414	47,354
Egypt .. .. .	74,250	50,215	33,498	159,049	58,273	44,746
South Africa .. .. .	n.a.	n.a.	n.a.	n.a.	7,391	n.a.
Tunisia .. .. .	4,500	6,520	3,861	12,750	16,890	3,727
United States .. .. .	306,216	81,604	301,899	194,171	n.a.	n.a.

(a) S content.

## RARE EARTH AND THORIUM MINERALS

### PRODUCTION OF RARE EARTH AND THORIUM MINERALS

Long tons

Producing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Nigeria—						
Monazite .. ..	12	7	10	11	12	126
Thorite (c) .. ..	1	—	—	—	—	1
Canada—						
Thorium (e) .. ..	58	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ceylon—						
Monazite .. ..	330	213	—	—	23	(a) 125
India—						
Monazite (d) .. ..	<i>n.a.</i>	1,031	<i>r</i> 2,598	<i>r</i> 2,368	2,060	(h) 2,500
Malaya (a)—						
Monazite .. ..	42	696	623	885	303	694
Australia (b)—						
High-grade concentrates	344	1,463	772	1,875	1,848	2,267
<b>OTHER COUNTRIES</b>						
Malagasy Republic—						
Monazite .. ..	420	448	627	605	949	1,068
Uranothorianite (f)	498	404	500	473	551	505
Mozambique—						
Monazite .. ..	1	—	—	—	—	—
South Africa—						
Monazite .. ..	—	—	(g) 4,755	(g) 2,054	—	—
Gadolinite .. ..	—	—	—	1	—	—
Brazil—						
Monazite .. ..	1,029	301	<i>r</i> 374	<i>r</i> 513	654	588
Indonesia—						
Monazite .. ..	<i>n.a.</i>	99	137	151	138	25
Korea (South)—						
Monazite .. ..	12	1	674	—	—	—

Rare earth and thorium minerals are also produced in the United States.

(a) Exports.

(b) Monazite content. Estimated.

(c) Between 5% and 6% ThO<sub>2</sub>.

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

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

(f) Containing an average of 60% Th.

(g) ThO<sub>2</sub> content as follows: 1962—5.4%; 1963—5.76%.

(h) Estimated.

## EXPORTS OF RARE EARTH MINERALS, ETC.

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
Ceylon—						
Monazite .. ..	—	—	—	300	—	125
India—						
Monazite .. ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>r</i> —	475	1,706
Malaya—						
Monazite .. ..	42	696	623	885	303	694
Australia—						
Concentrates .. ..	158	1,802	1,460	2,313	2,041	2,240
OTHER COUNTRIES						
Austria—						
Salts of rare earth minerals (a) .. ..	192	266	143	201	—	32
France—						
Salts of rare earth minerals .. ..	147	207	888	275	249	302
Germany (Federal)—						
Compounds of rare earth minerals .. ..	7	20	838	13	59	26
Rwanda and Burundi—						
Bastnaesite .. ..	1	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Malagasy Republic—						
Monazite .. ..	360	429	569	683	<i>n.a.</i>	<i>n.a.</i>
Uranothorianite .. ..	<i>r</i> 493	394	535	474	610	414
United States—						
Cerium ores, metals, etc. Thorium ore, concentrates and compounds	7	3	2	57	731	<i>n.a.</i>
Cerium ores, metals, etc. Thorium ore, concentrates and compounds	32	46	489	21	32	18
Brazil—						
Cerium chloride ..	2,272	1,369	906	851	875	4,244

(a) Including uranium salts.

## IMPORTS OF RARE EARTH MINERALS, ETC.

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
Canada—						
Thorium and cerium salts .. .. .	(£6,821)	(£10,892)	(£7,789)	(£2,570)	<i>n.a.</i>	<i>n.a.</i>
OTHER COUNTRIES						
Austria—						
Salts of rare earth minerals (a) .. .. .	1,004	974	1,128	1,042	934	—
France—						
Rare earth minerals ..	846	1,425	1,779	1,040	1,465	1,382
Salts of rare earth minerals .. .. .	602	626	42	45	32	96
Germany (Federal)—						
Rare earth minerals ..	<i>n.a.</i>	—	25	20	5	—
Salts of rare earth minerals (a) .. .. .	1,144	931	838	723	529	774
United States—						
Monazite sand and other thorium ore .. .. .	—	2,691	6,830	5,741	1,879	1,811

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

(a) Including uranium salts.

**SALT**  
**PRODUCTION OF SALT**

Long tons

Producing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom—						
Rock-salt .. ..	149,990	285,000	477,000	752,000	693,000	723,000
Brine-salt .. ..	1,232,979	1,189,354	1,259,960	1,388,788	1,347,000	1,428,000
Salt in brine (a) ..	4,385,010	4,194,854	4,243,786	4,251,621	4,598,000	4,738,000
Malta—						
Sea-salt .. ..	1,399	1,720	1,846	1,605	2,077	1,976
Ghana .. ..						
.. ..	12,000	18,000	19,000	<i>n.a.</i>	30,000	27,000
Kenya .. ..						
.. ..	21,916	22,650	18,568	32,683	40,056	50,741
Mauritius—						
Sea-salt .. ..	4,200	4,000	3,700	4,100	4,300	4,100
Nigeria .. ..						
.. ..	666	340	326	276	548	890
Tanzania .. ..						
.. ..	32,811	25,726	29,377	31,908	35,251	<i>n.a.</i>
Uganda .. ..						
.. ..	4,891	6,493	3,159	3,072	2,849	5,427
Zambia .. ..						
.. ..	—	—	<i>r</i> 6	—	—	—
Canada—						
Rock-salt .. ..	1,179,212	1,204,221	1,667,486	1,563,782	1,674,266	2,298,236
Other salt (c) ..	1,777,460	1,745,602	1,604,605	<i>r</i> 1,738,813	1,881,346	1,948,526
West Indies—						
Sea-salt—						
Bahamas (d) ..	171,286	168,643	154,571	105,857	220,786	413,714
St. Kitts (d) ..	156	722	1,332	783	2,777	4,009
Virgin Islands (d) ..	31	2	6	<i>n.a.</i>	3	4
Turks and Caicos Islands .. ..	24,408	29,651	(b) 30,000	(b) 25,000	<i>n.a.</i>	3,000
Aden .. ..	127,641	84,000	77,000	85,000	90,000	71,000
Ceylon .. ..	54,000	34,427	45,796	22,531	50,698	77,203
Cyprus .. ..	—	2,055	5,663	6,848	—	5,003
India—						
Rock-salt .. ..	4,243	4,232	4,400	3,300	2,800	2,800
Other salt .. ..	3,377,172	<i>r</i> 3,421,400	3,820,300	<i>r</i> 4,469,000	4,570,600	4,625,400
Goa .. ..	8,000	<i>n.a.</i>	10,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Pakistan—						
Rock-salt .. ..	184,755	216,387	187,902	244,645	219,277	<i>n.a.</i>
Sea-salt .. ..	248,176	183,580	252,484	213,733	183,990	<i>n.a.</i>
Australia .. ..						
.. ..	463,296	508,657	536,019	581,537	545,491	654,182
New Zealand .. ..						
.. ..	17,020	5,017	8,900	11,000	21,332	34,170
<b>TOTAL .. ..</b>	<b>13,500,000</b>	<b>13,300,000</b>	<b>14,500,000</b>	<b>15,600,000</b>	<b>16,200,000</b>	<b>17,000,000</b>
<b>OTHER COUNTRIES</b>						
Austria—						
Rock-salt .. ..	1,697	3,316	5,033	5,005	1,359	969
Evaporated salt ..	130,379	136,517	144,366	163,444	164,168	182,668
Bulgaria .. ..						
.. ..	86,000	124,000	146,000	104,000	81,000	<i>n.a.</i>
Czechoslovakia .. ..						
.. ..	165,086	184,985	178,980	184,000	181,000	192,000
France—						
Rock-salt (incl. refined)	598,345	657,694	677,365	749,183	833,598	1,030,000
Salt in brine .. ..	2,353,322	2,252,198	2,266,430	2,291,092	2,356,783	2,217,000
Sea-salt .. ..	713,903	874,210	1,247,267	595,167	778,021	1,108,000
Germany (Federal)—						
Rock-salt .. ..	4,291,127	4,277,614	4,487,751	5,150,981	5,318,420	5,024,379
Brine-salt .. ..	333,739	335,744	340,491	357,515	392,518	431,110

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

(b) Estimated.

(c) Including salt in brine.

(d) Exports.

PRODUCTION OF SALT (cont.)

Long tons

Producing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Germany (East) .. ..	1,757,000	1,968,000	(a)2,000,000	(a)2,000,000	(a)2,000,000	(a)2,000,000
Greece—						
Sea-salt .. .. .	95,131	117,352	r 112,751	81,658	100,231	(a) 90,000
Italy—						
Rock-salt and brine-salt	1,556,609	1,599,220	r 1,703,942	1,858,223	1,998,917	2,095,130
Sea-salt .. .. .	979,182	1,173,226	1,116,054	n.a.	n.a.	n.a.
Netherlands (brine-salt)	1,078,360	1,096,578	1,242,000	1,456,000	1,571,000	1,680,600
Poland—						
Rock-salt .. .. .	513,000	598,000	598,000	635,000	650,000	663,000
Brine-salt .. .. .	219,000	232,000	238,000	242,000	265,000	281,000
Other salt .. .. .	1,183,000	1,188,000	1,205,000	1,221,000	1,291,000	1,317,000
Portugal—						
Rock-salt .. .. .	68,845	71,689	72,631	77,723	87,632	n.a.
Sea-salt .. .. .	211,000	262,610	309,836	263,527	228,325	n.a.
Roumania .. .. .	1,028,000	1,309,000	1,454,000	1,611,000	1,780,000	1,984,000
Spain—						
Rock-salt .. .. .	528,027	604,591	616,200	688,344	721,812	669,000
Sea-salt .. .. .	815,450	937,706	965,600	951,300	1,133,273	n.a.
Other salt .. .. .	14,087	17,871	18,036	13,976	18,497	n.a.
Switzerland .. .. .	146,953	154,793	165,291	187,704	178,703	226,730
U.S.S.R. (a) .. .. .	6,600,000	7,400,000	8,400,000	8,600,000	9,100,000	9,300,000
Yugoslavia—						
Sea-salt .. .. .	35,000	44,000	86,000	32,000	52,000	} 171,000
Evaporated salt ..	114,000	114,000	126,000	132,000	129,000	
Algeria—						
Brine-salt and sea-salt..	235,990	126,325	116,000	122,000	114,000	n.a.
Angola .. .. .	56,904	65,754	59,413	67,520	79,813	58,679
Canary Islands (sea-salt)	11,361	14,074	14,112	17,673	20,130	n.a.
Cape Verde Islands ..	23,383	17,089	26,437	28,666	31,072	n.a.
Congo Republic(rock-salt)	n.a.	551	n.a.	n.a.	n.a.	n.a.
Egypt .. .. .	513,000	509,051	551,329	385,860	663,901	486,317
Ethiopia (d) .. .. .	155,000	149,000	195,000	251,000	259,000	185,000
Libya (sea-salt) .. ..	12,000	12,000	14,000	19,000	12,000	—
Morocco .. .. .	29,843	20,866	27,135	36,752	59,750	33,746
Mozambique (rock-salt)	40	40	n.a.	40	n.a.	30
Senegal .. .. .	48,809	42,759	47,442	59,033	55,220	50,091
South Africa .. .. .	248,849	204,647	251,081	194,656	295,378	325,496
South West Africa—						
Rock-salt .. .. .	4,025	4,296	4,379	5,010	5,000	4,445
Other salt .. .. .	67,000	50,000	70,000	59,000	92,000	91,100
Sudan .. .. .	52,573	52,267	56,956	36,418	59,000	51,000
Tunisia (sea-salt) ..	162,900	158,000	167,300	303,254	210,618	350,184
Costa Rica (b) .. ..	10,000	10,000	10,000	10,000	10,000	10,000
Cuba (sea-salt) .. ..	57,671	n.a.	n.a.	n.a.	n.a.	n.a.
Dominican Republic—						
Rock-salt .. .. .	65,259	74,506	31,704	28,854	2,185	20,300
Sea-salt .. .. .	19,210	19,782	9,740	n.a.	28,365	25,528
Guatemala (sea-salt)	14,846	15,425	16,583	18,600	17,800	14,740
Haiti (b) .. .. .	10,000	10,000	10,000	10,000	10,000	10,000
Honduras .. .. .	(b) 10,000	(b) 13,000	10,000	(b) 10,000	(b) 10,000	(b) 10,000
Mexico .. .. .	979,000	1,046,000	1,271,000	1,205,000	1,754,000	2,165,000
Netherlands Antilles ..	(c) 112	(b) 150	(c) 119	(c) 106	(c) 47	n.a.
Nicaragua (sea-salt) ..	11,318	11,929	12,531	16,234	16,767	17,605
Panama (sea-salt) .. .	7,000	7,607	10,333	9,923	10,846	(a) 10,000
Salvador (b) .. .. .	n.a.	30,000	30,000	30,000	30,000	n.a.

(a) United States Bureau of Mines' estimate.

(b) Estimated.

(c) Exports.

(d) Years ended September 10 of year stated.

PRODUCTION OF SALT (cont.)

Long tons

Producing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
United States (e)—						
Rock-salt .. .. .	5,773,000	5,749,000	6,898,000	7,451,000	7,637,000	8,759,000
Salt in brine .. ..	13,313,000	13,287,000	14,677,000	15,647,000	16,399,000	17,814,000
Evaporated salt .. .	3,664,000	3,917,000	4,146,000	4,260,000	4,198,000	4,397,000
Argentina .. .. .	r 562,036	410,900	505,946	170,000	385,203	712,977
Brazil (sea-salt) .. .	908,338	874,902	1,220,812	1,097,490	742,015	1,180,732
Chile .. .. .	n.a.	45,384	50,207	47,480	90,529	55,448
Colombia—						
Rock-salt .. .. .	231,624	262,368	262,030	258,770	284,396	275,465
Sea-salt .. .. .	66,775	68,610	38,602	33,622	49,855	45,455
Ecuador (sea-salt) .. .	26,868	31,000	26,024	(a) 30,000	(a) 30,000	(a) 30,000
Peru—						
Rock-salt .. .. .	104,000	8,922	10,678	8,895	131,000	122,000
Sea-salt .. .. .		69,590	75,489	72,098		
Brine-salt .. .. .		7,452	5,996	5,043		
Venezuela (sea-salt) .. .	77,655	144,618	142,512	75,200	199,493	169,051
Afghanistan (f) .. .	25,500	22,400	30,500	32,400	24,000	37,000
Burma—						
Sea-salt .. .. .	154,006	123,242	151,971	158,000	125,000	a)(b)134,000
Brine-salt .. .. .	1,231	1,304	1,267			
China (a) .. .. .	13,000,000	11,000,000	10,000,000	10,000,000	10,000,000	13,000,000
Formosa (sea-salt) .. .	446,086	424,823	585,322	616,233	592,668	551,199
Cambodia .. .. .	37,000	54,000	(a)(b)39,000	—	—	—
Indonesia .. .. .	194,614	142,376	299,000	n.a.	n.a.	n.a.
Iran (d) .. .. .	128,000	143,000	265,000	340,000	n.a.	n.a.
Iraq (c) .. .. .	36,209	35,500	37,471	30,000	(a)(b)39,000	(a)(b)60,000
Israel .. .. .	36,632	43,412	44,302	50,799	41,883	53,925
Japan—						
Government-licensed plants .. .. .	867,696	814,938	865,000	r 735,000	879,000	835,000
Jordan (brine-salt) .. .	12,077	17,486	17,799	17,444	19,614	20,000
Korea (North) .. .. .	319,000	386,000	414,000	a)(b)450,000	a)(b)400,000	a)(b)500,000
Korea (South) .. .. .	392,962	119,823	381,947	226,454	379,516	658,310
Lebanon (sea-salt) (a) .. .	15,000	10,000	16,000	18,000	20,000	20,000
Philippine Republic—						
Sea-salt .. .. .	93,249	91,818	94,155	69,014	45,891	221,000
Syria .. .. .	10,000	7,000	18,000	15,000	18,000	(a)(b)15,000
Thailand .. .. .	329,000	r 191,000	r 254,000	r 262,000	(a) 330,000	n.a.
Turkey—						
Rock-salt .. .. .	31,061	29,000	28,000	29,000	32,000	34,000
Lake and spring salt .. .	407,455	234,000	396,000	362,000	317,000	451,000
Sea-salt .. .. .						
Vietnam (North) .. .. .	115,000	104,000	142,000	126,000	a)(b)150,000	a)(b)150,000
Vietnam (South) .. .. .	103,355	98,000	190,000	126,000	89,000	(a)(b)95,000
Yemen .. .. .	98,000	118,000	147,000	a)(b)100,000	(a)(b)35,000	—
TOTAL* .. .. .	71,000,000	70,000,000	75,000,000	77,000,000	81,000,000	89,000,000
WORLD'S TOTAL* .. .	85,000,000	83,000,000	90,000,000	93,000,000	97,000,000	106,000,000

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

(a) Estimated.

(b) United States Bureau of Mines.

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

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

(e) Sold or used by producers.

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

## EXPORTS OF SALT

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom ..	310,007	323,755	319,928	362,866	357,127	398,937
Kenya .. .. .	5	752	681	85	12	18
Tanzania .. .. .	11,781	12,246	9,654	12,553	10,146	14,656
Uganda .. .. .	1,393	1,127	660	565	546	441
Canada .. .. .	3,090,505	2,526,016	3,560,418	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Bahamas (d) .. .	171,286	168,643	154,571	105,857	220,786	413,714
St. Kitts .. .. .	156	722	1,332	783	2,777	4,009
Virgin Islands ..	31	2	6	5	3	4
Turks and Caicos Islands	31,717	r 16151	21,098	26,559	8,271	6,535
Aden .. .. .	101,279	116,379	99,858	72,574	93,021	47,939
Ceylon .. .. .	4	—	—	—	—	—
India (c) .. .. .	392,548	50,457	167,832	191,611	278,932	269,521
Goa .. .. .	152	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Malaya .. .. .	2,369	1,993	2,108	1,641	454	214
Pakistan .. .. .	34,855	121,591	89,304	56,151	185,876	<i>n.a.</i>
Australia (a)—						
Refined salt .. .	642	1,727	95	253	203	382
Other salt .. ..	16,815	31,242	73,702	74,606	107,144	111,289
<b>OTHER COUNTRIES</b>						
Austria .. .. .	—	1,372	2,430	1,244	3	1,201
Belgium-Luxemburg						
E.U. .. .. .	162	238	648	526	1,747	3,394
Denmark .. .. .	300	481	298	235	245	351
France .. .. .	108,316	96,538	103,097	135,101	135,083	92,587
Germany (Federal) ..	714,799	688,812	780,216	876,238	857,140	946,191
Italy .. .. .	18,509	42,400	28,365	74,266	53,967	56,876
Netherlands—						
Common salt .. .	8,371	507	—	—	—	—
Refined salt .. .	627,306	651,618	724,458	849,511	943,986	963,759
Norway—						
Common salt .. .	4,607	6,477	3,000	5,932	4,621	3,895
Refined salt .. .	18	2	2	—	—	—
Poland .. .. .	149,644	130,596	137,000	r 141,000	169,000	116,511
Portugal .. .. .	478	409	2,269	81	8	16
Roumania .. .. .	185,300	280,700	287,200	304,300	381,100	470,800
Spain .. .. .	490,912	427,791	503,206	457,880	329,155	397,630
Sweden .. .. .	14	53	292	1,225	32	1,316
Switzerland .. .. .	2	1	1	2,569	3,282	3,137
U.S.S.R. .. .. .	86,600	112,900	131,800	136,000	107,200	161,900
Algeria .. .. .	59,298	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Angola .. .. .	23,176	24,663	22,506	23,958	33,401	24,321
Cape Verde Islands ..	25,621	35,952	30,766	32,346	35,145	28,086
Egypt .. .. .	385,620	352,315	205,544	160,130	327,201	225,981
Ethiopia .. .. .	(b) 52,604	(b) 53,173	<i>n.a.</i>	57,276	78,417	78,247
Malagasy Republic ..	2,272	2,335	1,307	2,364	1,607	2,052
Mozambique .. .. .	4,778	4,079	4,296	3,378	3,692	7,230
Morocco .. .. .	143	—	13	10	12	3
Senegal .. .. .	10,226	10,519	12,212	44,685	11,725	6,061
South Africa .. .. .	16,555	19,229	24,725	23,494	29,707	30,890
South West Africa—						
Rock-salt .. .. .	1,794	2,093	1,895	2,271	2,882	2,513
Coarse salt .. ..	31,843	36,704	35,854	42,558	50,930	44,988
Other salt .. .. .	1,405	1,487	1,104	1,512	1,409	1,031

(a) Years ended June 30 of that stated.

(b) Years ended September 10 of that stated.

(c) Years ending March 31 following that stated.

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



## EXPORTS OF SALT (cont.)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Sudan .. .. .	11,560	923	516	506	981	773
Tunisia .. .. .	87,255	146,600	128,764	263,206	191,600	372,318
Dominican Republic .. .. .	58,011	57,592	26,162	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Honduras .. .. .	2,835	939	1,709	3,139	5,816	6,234
Mexico .. .. .	489,473	707,310	1,047,209	990,573	1,428,287	1,575,789
Netherlands Antilles .. .. .	112	102	119	106	47	—
Salvador .. .. .	1,312	1,146	1,920	1,888	3,026	7,151
United States .. .. .	375,287	573,184	593,931	251,014	530,641	615,552
Argentina .. .. .	17,869	23,598	37,198	56,498	66,430	88,057
Peru .. .. .	395	472	1,011	578	336	118
Burma .. .. .	9,999	9,000	9,240	10,000	5,625	—
Formosa .. .. .	287,531	289,089	233,137	278,959	392,420	297,649
Iran (a) .. .. .	3,230	1,746	1,954	2,460	3,337	3,549
Japan .. .. .	86	6	20	39	13	7
Thailand .. .. .	220,356	187,071	132,874	114,933	122,903	100,452
Turkey .. .. .	142,676	78,487	52,611	57,809	126,902	121,213
Vietnam (South) .. .. .	51,080	21,702	35,677	20,270	38,433	4,921

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

IMPORTS OF SALT

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—						
Salt for use of fisheries..	52,375	35,046	42,055	170,399	30,975	53,199
Other salt .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	5,575	5,864	5,587
Channel Islands .. .. .	698	631	535	593	641	548
Malta—						
Refined salt .. .. .	(£4,526)	(£5,137)	(£3,774)	(£4,055)	(£4,863)	(£6,546)
Other salt .. .. .	370	508	—	5	236	360
Gambia .. .. .	301	403	325	94	254	98
Ghana .. .. .	8,342	7,930	353	2,652	2,079	8,418
Kenya .. .. .	1,944	3,078	6,748	9,658	11,889	5,461
Malawi .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	5,973	<i>n.a.</i>
Mauritius .. .. .	1,021	74	35	158	19	148
Nigeria .. .. .	103,926	110,913	111,449	124,005	131,522	127,993
Rhodesia ( <i>d</i> ) .. .. .	38,251	36,208	39,858	38,570	28,750	38,973
Seychelles .. .. .	234	416	216	343	196	428
Sierra Leone .. .. .	7,394	7,230	6,361	8,720	8,859	6,881
Tanzania .. .. .	623	1,575	6,961	4,130	3,717	4,403
Uganda .. .. .	18,573	18,826	23,739	25,838	26,553	34,744
Zambia .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	10,136	10,720
Canada—						
Salt for use of fisheries..	58,125	54,031	42,564	59,674	40,772	46,291
Refined salt .. .. .	671	1,226	1,060	—	—	—
Other salt .. .. .	112,579	122,747	175,871	237,273	321,347	347,995
Antigua .. .. .	183	213	178	200	286	190
Barbados—						
Rock and coarse salt ..	109	51	53	59	} (c) 7,543	1,951
Refined salt .. .. .	—	2,120	2,098	648		
Bermuda .. .. .	169	172	132	192	183	177
British Honduras .. .. .	515	514	501	613	469	567
Dominica .. .. .	336	258	<i>r</i> 554	363	263	242
Grenada .. .. .	14,215	520	528	585	293	2,388
Jamaica—						
Rock-salt .. .. .	3	48	36	56	192	105
Other salt .. .. .	10,863	11,392	10,865	11,360	11,209	10,920
Montserrat .. .. .	16	37	38	27	63	<i>n.a.</i>
St. Kitts .. .. .	78	94	96	82	55	65
St. Lucia—						
Common salt .. .. .	306	719	854	474	339	595
Refined salt .. .. .	39	38	78	14	2	14
St. Vincent—						
Unrefined salt .. .. .	139	95	78	150	<i>n.a.</i>	6
Refined salt .. .. .	330	274	315	334	<i>n.a.</i>	424
Trinidad and Tobago—						
Rock and coarse salt ..	838	2,217	1,024	<i>r</i> 2,878	2,373	} 8,168
Refined salt .. .. .	5,003	3,949	5,114	<i>r</i> 3,988	4,796	
Virgin Islands .. .. .	3	7	9	9	12	14
British Guiana—						
Rock and coarse salt ..	16	16	71	<i>n.a.</i>	17	21
Refined salt, etc. .. ..	2,662	2,669	<i>r</i> 2,806	<i>n.a.</i>	2,546	2,705
Aden .. .. .	101	67	45	29	—	—
Brunei .. .. .	290	386	335	3,273	336	1,006
Ceylon—						
Refined salt .. .. .	22	66	28	41	72	50
Other salt .. .. .	—	—	54,919	36,632	32,748	39,132
Cyprus .. .. .	190	262	211	270	227	245
Hong Kong .. .. .	<i>r</i> 29,403	<i>r</i> 35,652	<i>r</i> 38,058	<i>r</i> 33,664	32,652	30,803
India ( <i>b</i> ) .. .. .	158	8	1,902	28	3,533	105
Malaya—						
Refined salt .. .. .	278	313	259	260	277	413
Other salt .. .. .	80,652	73,720	83,546	78,748	82,007	79,538
Pakistan .. .. .	( <i>a</i> ) 1,100	5,775	8,910	1,915	2,601	<i>n.a.</i>
Sabah .. .. .	3,856	3,054	2,916	3,288	8,354	3,180

(a) Exports from India to Pakistan by land.

(b) Years ended March 31 following that stated.

(c) Excess of re-exports.

(d) Figures for years 1960 to 1963 relate to Rhodesia and Nyasaland.

## IMPORTS OF SALT (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
<i>(cont.)</i>						
Sarawak .. .. .	4,516	5,115	5,036	6,117	5,008	5,588
Australia (a)—						
Rock-salt .. .. .	1,428	5	—	—	—	45
Refined salt .. .. .	681	923	366	11	16	45
Other salt .. .. .	10,406	14,730	7,766	7,203	7,056	6,478
Fiji .. .. .	1,899	1,795	2,066	2,308	1,767	1,514
New Guinea (a) .. .. .	982	1,219	1,386	1,352	1,695	1,289
New Hebrides .. .. .	98	162	164	276	207	<i>n.a.</i>
New Zealand .. .. .	44,350	53,899	51,759	57,565	(a) 62,429	(a) 49,500
Papua (a) .. .. .	484	310	348	356	401	408
Solomon Islands .. .. .	51	65	54	65	80	65
Western Samoa .. .. .	219	360	352	360	280	263
Irish Republic—						
Refined salt .. .. .	3,833	4,112	4,393	r 4,515	4,403	5,224
Other salt .. .. .	31,934	32,817	36,841	r 34,991	32,874	35,765
<b>OTHER COUNTRIES</b>						
Austria—						
Common salt .. .. .	153	67	102	364	90	62
Belgium-Luxemburg						
E.U.—						
Common salt .. .. .	528,804	514,646	585,304	r 647,712	701,448	672,069
Refined salt .. .. .	78,637	85,736	94,926	r 113,231	109,695	108,668
Denmark—						
Rock-salt .. .. .	68,159	62,963	68,436	89,707	82,869	101,305
Refined salt .. .. .	76,922	76,188	76,248	78,079	80,291	88,687
Faroe Islands .. .. .	14,133	16,241	19,605	33,292	25,453	34,919
Finland .. .. .	196,711	219,893	270,100	263,110	302,303	320,728
France .. .. .	45,524	68,269	76,521	61,720	131,660	115,875
Germany (Federal) .. .. .	15,920	15,091	24,759	55,520	94,592	92,368
Iceland—						
Common salt .. .. .	51,830	47,785	56,147	53,806	52,101	50,942
Refined salt .. .. .	212	172	207	238	289	295
Italy .. .. .	137,168	137,441	141,440	54,969	36,949	2,143
Netherlands—						
Rock-salt .. .. .	17,762	12,744	9,559	26,886	8,968	11,880
Sea-salt, etc. .. .. .						
Refined salt .. .. .	19,250	17,380	14,142	34,952	25,466	23,150
Norway—						
Common salt .. .. .	169,844	132,812	141,186	102,332	91,014	126,176
Refined salt .. .. .	75,799	91,286	101,625	157,581	157,259	164,945
Portugal .. .. .	170	3,028	5,776	11,495	9,535	27,620
Sweden .. .. .	510,095	544,803	586,971	628,295	661,591	732,748
Switzerland .. .. .	1,164	1,174	774	2,791	829	1,103
Yugoslavia .. .. .	79,384	131,876	27,722	88,186	104,255	159,251
Algeria .. .. .	370	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Cameroun .. .. .	10,932	13,878	12,482	11,221	16,620	15,672
Central African						
Republic .. .. .	(b)	(b)	(b)	(b)	3,754	2,104
Congo (Republic of) .. .. .	(b)	(b)	(b)	(b)	2,701	2,109
Dahomey .. .. .	1,601	1,548	944	1,121	1,236	2,285
Egypt .. .. .	5	4	11	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

(a) Years ended June 30 of that stated.

(b) Included in Equatorial African Community.

## IMPORTS OF SALT (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Equatorial African Community .. .. .	10,537	8,881	8,829	13,868	(d)	(d)
Ethiopia .. .. .	(c) 594	(c) 172	n.a.	398	126	n.a.
Gabon .. .. .	(e)	(e)	(e)	(e)	1,327	1,746
Ivory Coast .. .. .	15,874	17,502	5,629	24,937	22,673	18,683
Liberia .. .. .	1,515	674	3,317	6,669	n.a.	n.a.
Malagasy Republic .. .. .	253	315	3,408	526	626	n.a.
Mali .. .. .	n.a.	8,003	15,007	17,088	17,673	14,919
Morocco .. .. .	2,753	602	584	1,921	5,388	235
Mozambique .. .. .	2,058	3,075	1,903	3,746	2,332	1,509
Niger .. .. .	1,569	4,401	16,839	5,229	6,598	4,962
Reunion .. .. .	n.a.	n.a.	n.a.	n.a.	1,611	2,139
Senegal .. .. .	137	160	103	177	87	73
Somali Republic (b) .. .. .	596	n.a.	n.a.	n.a.	n.a.	n.a.
South Africa .. .. .	4,092	3,005	2,284	2,419	2,418	2,081
Sudan .. .. .	25	53	77	59	1,211	58
Togo .. .. .	4,911	8,099	9,103	10,761	10,692	6,877
Upper Volta .. .. .	926	5,168	7,315	10,858	n.a.	n.a.
Costa Rica .. .. .	96	141	95	103	272	254
French West Indies—						
Guadeloupe .. .. .	n.a.	n.a.	n.a.	n.a.	n.a.	1,168
Martinique .. .. .	n.a.	n.a.	n.a.	n.a.	n.a.	2,507
Greenland .. .. .	12,595	8,757	7,356	7,555	3,301	3,699
Guatemala .. .. .	376	245	142	227	1,617	4,598
Honduras .. .. .	1,156	968	1,876	1,755	1,620	2,334
Mexico .. .. .	2,556	1,187	862	1,220	1,027	n.a.
Netherlands Antilles .. .. .	541	523	619	523	577	622
Nicaragua .. .. .	595	677	681	580	1,939	2,767
St. Pierre and Miquelon .. .. .	1,375	2,264	2,414	232	2,118	n.a.
Salvador .. .. .	2,741	983	1,724	2,764	4,202	4,182
United States .. .. .	943,775	937,575	1,226,588	1,353,713	2,089,176	1,575,828
Bolivia .. .. .	53	163	199	161	120	186
Brazil .. .. .	46	26	37	175	51,395	245,568
Colombia .. .. .	4	3	3	7	7	4
French Guiana .. .. .	n.a.	n.a.	n.a.	n.a.	277	306
Peru .. .. .	74	91	2,420	3,439	3,271	4,258
Surinam .. .. .	1,065	938	1,000	1,195	1,181	n.a.
Uruguay .. .. .	47,603	n.a.	n.a.	n.a.	n.a.	n.a.
Burma .. .. .	1,557	957	1,779	1,451	816	812
Indonesia .. .. .	85	n.a.	n.a.	n.a.	n.a.	n.a.
Iran (a) .. .. .	99	98	119	82	78	113
Iraq .. .. .	1,606	90	377	55	61	n.a.
Japan .. .. .	2,323,639	2,366,506	2,610,880	2,901,189	3,583,607	3,487,467
Laos .. .. .	2,234	1,341	n.a.	n.a.	n.a.	n.a.
Lebanon .. .. .	5,493	5,109	1,876	1,101	1,439	n.a.
Syria .. .. .	n.a.	n.a.	17,818	23,109	—	15,394
Philippine Republic—						
Crude .. .. .	8,931	3,971	582	553	690	n.a.
Refined .. .. .	704	4,235	239	147	185	n.a.
French Polynesia .. .. .	332	324	402	—	396	557
New Caledonia .. .. .	411	446	419	474	551	n.a.

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

(c) Years ended September 10 of that stated. (d) See Central African Republic, Congo (Republic of) and Gabon.

(e) Included in Equatorial African Community.

**SELENIUM**  
**PRODUCTION OF SELENIUM**

Lb. avdp.

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Zambia (a) .. ..	50,119	38,292	71,453	62,891	57,631	59,500
Canada .. .. .	521,638	430,612	487,066	468,772	465,746	504,109
<b>OTHER COUNTRIES</b>						
Belgium (b) .. ..	72,500	51,800	29,500	54,000	87,100	94,400
Finland .. .. .	11,358	13,296	11,797	15,417	14,500	12,577
Sweden .. .. .	176,880	213,471	155,060	156,222	181,540	176,209
Yugoslavia .. ..	<i>n.a.</i>	1,872	3,986	4,120	8,439	(d) 7,000
Mexico .. .. .	6,945	5,642	2,458	5,463	9,345	8,120
United States (c) ..	539,000	1,022,000	999,000	928,000	929,000	540,000
Peru .. .. .	10,681	16,305	18,380	19,790	16,797	18,964
Japan .. .. .	278,237	300,265	309,317	313,497	325,929	<i>n.a.</i>
<b>WORLD'S TOTAL ..</b>	<b>1,670,000</b>	<b>2,100,000</b>	<b>2,090,000</b>	<b>2,030,000</b>	<b>2,100,000</b>	<b>1,700,000</b>

Selenium is also produced in Australia.

(a) Contained in copper slimes exported for treatment.

(b) Exports.

(c) Including selenium content of compounds and, during the years 1960 and 1961, small quantities of secondary selenium.

(d) United States Bureau of Mines' estimate.

**EXPORTS OF SELENIUM**

Lb. avdp.

Exporting Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Zambia (a) .. ..	50,119	38,292	40,526	62,891	57,631	50,900
Canada (b) .. ..	404,410	345,800	325,600	445,700	401,300	451,200
<b>OTHER COUNTRIES</b>						
Belgium-Luxemburg						
E.U. .. .. .	72,500	51,800	29,500	54,000	87,100	93,000
Germany (Federal) ..	50,500	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sweden .. .. .	165,000	157,000	110,000	194,000	143,000	141,000
Peru .. .. .	7,820	14,800	10,518	19,764	24,478	19,253
Japan .. .. .	88,749	149,434	111,962	105,650	102,092	68,976

(a) Contained in copper slimes exported for treatment.

(b) Including salts.

## IMPORTS OF SELENIUM

Lb. avdp.

Importing Country	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom ..	308,174	258,372	241,330	276,167	321,938	392,918
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U. .. ..	44,300	1,800	12,600	2,900	1,500	661
France .. ..	(b) 58,600	57,800	66,000	70,500	70,500	61,729
Germany (Federal) ..	248,200	261,200	160,300	230,400	203,500	231,900
Italy .. ..	47,000	46,500	50,706	46,738	61,509	38,600
Sweden .. ..	68,000	75,000	18,000	2,200	22,000	51,000
Morocco (b) .. ..	110	220	10,913	664	n.a.	1,323
United States (a) ..	171,574	127,482	160,389	339,000	215,098	234,645
Argentina .. ..	8,314	7,641	12,613	5,719	12,710	14,716
Brazil .. ..	7,383	9,811	9,520	9,019	4,740	3,719
Peru .. ..	148	214	569	225	677	862

(a) Including salts.

(b) Including tellurium.

**SILLIMANITE, Etc.**

**PRODUCTION OF SILLIMANITE, ETC.**

Long tons

Producing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Kenya—						
Kyanite .. ..	921	—	—	—	—	—
Mullite .. ..	344	—	—	—	—	—
Rhodesia—						
Kyanite .. ..	—	—	—	54	230	<i>n.a.</i>
India—						
Kyanite .. ..	19,838	26,726	48,834	31,520	33,623	36,856
Sillimanite .. ..	8,349	7,985	8,125	11,311	12,167	11,098
Australia—						
Kyanite, sillimanite and andalusite (a) ..	1,524	1,787	2,637	3,515	2,634	2,554
<b>OTHER COUNTRIES</b>						
Spain—						
Sillimanite .. ..	—	—	—	454	1,275	<i>n.a.</i>
Cameroun—						
Kyanite .. ..	—	5	<i>n.a.</i>	69	—	—
South Africa—						
Andalusite .. ..	9,154	6,934	18,048	9,850	13,752	21,573
Sillimanite .. ..	52,575	84,406	52,815	55,353	53,787	41,482
South West Africa—						
Kyanite .. ..	1,284	2,679	1,488	—	563	—
United States—						
Kyanite (b) .. ..	30,000	33,000	34,000	40,000	46,000	52,000
Argentina—						
Sillimanite .. ..	20	100	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Korea (South)—						
Andalusite .. ..	241	502	450	657	110	126

(a) In addition the following amounts of kaolinised sillimanite were produced (long tons): 1960—2,401; 1961—1,608; 1962—1,681; 1963—3,325; 1964—3,325; 1965—6,805.

(b) Estimated. In addition the following amounts of synthetic mullite were produced (long tons): 1960—19,194; 1961—13,212; 1962—16,983; 1963—26,418; 1964—32,200; 1965—35,758.

**EXPORTS OF SILLIMANITE, ETC.**

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Kenya—						
Kyanite and mullite ..	1,750	—	—	—	—	—
India—						
Kyanite .. ..	25,439	31,226	36,364	27,886	28,363	30,652
Sillimanite .. ..	7,707	5,406	4,819	5,376	8,633	5,695
<b>OTHER COUNTRIES</b>						
France—						
Kyanite, sillimanite, etc.						
Crude .. ..	14	22	183	505	346	371
Calcined .. ..	21	258	750	311	563	229

## EXPORTS OF SILLIMANITE, ETC. (cont.)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES (cont.)						
Germany (Federal)—						
Kyanite, sillimanite, etc.						
Crude .. .. .	84	155	306	247	} 105	{ 120
Calcined .. ..	21	3	5	13		
Italy—						
Kyanite, sillimanite, etc.						
Crude .. .. .	6	} 54	298	215	438	587
Calcined .. ..	23					
Netherlands—						
Kyanite, sillimanite, etc.	2,777	8,299	7,344	1,403	1,890	n.a.
South-West Africa—						
Kyanite .. .. .	142	2,714	1,944	—	546	206
South Africa—						
Andalusite .. ..	3,636	4,787	5,974	5,041	6,179	9,046
Sillimanite .. ..	45,595	86,849	39,552	37,571	46,926	39,805
United States—						
Kyanite, etc. .. ..	2,906	3,571	3,186	4,509	5,429	9,141

## IMPORTS OF SILLIMANITE, ETC.\*

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—						
Kyanite, sillimanite, etc.	27,966	35,763	31,123	19,503	27,335	26,167
Canada—						
Kyanite, etc. .. ..	1,703	1,376	1,419	2,188	n.a.	n.a.
Australia—						
Kyanite .. .. .	546	1,045	9	870	1,939	1,000
Sillimanite .. ..	259	191	190	37	218	489
OTHER COUNTRIES						
France—						
Kyanite, sillimanite, etc.						
Crude .. .. .	3,887	4,322	3,360	2,225	3,312	3,330
Calcined .. ..	1,001	1,717	1,193	1,554	1,482	2,036
Germany—						
Kyanite, sillimanite, etc.						
Crude .. .. .	12,939	18,775	20,879	20,716	15,128	17,647
Calcined .. ..	59	325	819	400	157	1,204
Italy—						
Kyanite, sillimanite, etc.						
Crude .. .. .	3,661	} 6,829	11,257	11,828	10,429	4,244
Calcined .. ..	270					
Netherlands—						
Kyanite, sillimanite, etc.	4,631	14,910	6,886	2,963	4,626	n.a.
South Africa—						
Sillimanite .. ..	n.a.	n.a.	n.a.	n.a.	63	n.a.
United States—						
Kyanite, sillimanite, etc.	5,403	4,835	4,715	2,343	2,131	3,613
Japan—						
Kyanite, sillimanite, etc.	(a) 23,700	(a) 38,700	18,638	18,258	32,474	26,448
Thailand—						
Kyanite, sillimanite, etc.	597	467	373	550	1,181	550

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

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



**SILVER**  
**PRODUCTION OF SILVER**  
(Metal content)

Fine troy ounces

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom .. .. .	7,098	4,744	514	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Bechuanaland Protectorate .. .. .	25	39	33	21	1	—
Ghana ( <i>a</i> ) .. .. .	14,160	7,027	4,443	4,827	<i>n.a.</i>	<i>n.a.</i>
Kenya .. .. .	35,797	40,731	50,160	52,422	47,702	21,247
Rhodesia .. .. .	392,026	106,801	83,540	83,741	88,463	( <i>a</i> ) 83,285
Swaziland .. .. .	58	103	132	120	130	130
Tanzania .. .. .	( <i>d</i> ) 595,357	( <i>d</i> ) 64,001	24,463	22,249	25,295	( <i>a</i> ) 22,865
Uganda ( <i>a</i> ) .. .. .	109	70	38	9	—	—
Zambia ( <i>b</i> ) .. .. .	920,601	738,558	943,932	966,868	1,001,267	848,819
Canada .. .. .	34,016,829	31,381,977	30,422,972	r29,932,003	29,902,611	32,272,464
India .. .. .	132,700	191,000	138,700	128,300	152,200	168,300
Australia .. .. .	15,215,956	13,059,166	17,553,691	19,641,925	18,426,990	16,897,554
Fiji .. .. .	31,319	37,712	38,935	46,870	60,564	60,470
New Guinea .. .. .	33,060	30,246	24,511	23,695	23,206	19,663
New Zealand .. .. .	1,353	805	416	286	141	55
<b>TOTAL .. .. .</b>	<b>51,396,000</b>	<b>45,663,000</b>	<b>49,286,000</b>	<b>r50,904,000</b>	<b>49,730,000</b>	<b>50,400,000</b>
<b>OTHER COUNTRIES</b>						
Czechoslovakia ( <i>e</i> ) .. .. .	1,600,000	1,600,000	r 2,400,000	r 2,400,000	2,400,000	2,400,000
Finland .. .. .	390,374	456,155	380,495	579,967	607,906	582,186
France .. .. .	1,039,900	1,128,800	898,970	730,110	969,440	1,401,200
Germany (Federal) .. .. .	1,842,600	1,879,400	1,957,600	2,067,100	2,062,600	1,992,200
Germany (East) ( <i>e</i> ) .. .. .	4,800,000	4,800,000	4,800,000	4,800,000	4,800,000	4,800,000
Greece .. .. .	105,500	113,400	138,700	r 123,000	<i>n.a.</i>	<i>n.a.</i>
Italy .. .. .	845,400	874,900	( <i>h</i> ) 929,000	( <i>h</i> ) 1,010,000	( <i>h</i> ) 1,070,000	( <i>h</i> ) 1,090,000
Portugal .. .. .	52,920	48,260	52,920	48,420	48,770	47,100
Roumania ( <i>e</i> ) .. .. .	600,000	600,000	600,000	600,000	600,000	600,000
Spain .. .. .	1,739,700	4,526,600	5,684,120	4,955,200	2,300,000	<i>n.a.</i>
Sweden .. .. .	2,756,000	2,949,800	3,367,300	r 3,580,000	3,122,300	3,408,800
Yugoslavia ( <i>h</i> ) .. .. .	3,024,800	3,454,080	3,750,930	3,791,920	4,036,880	4,148,060
Algeria ( <i>g</i> ) .. .. .	300,000	300,000	280,000	260,000	290,000	340,000
Congo Republic .. .. .	3,962,840	3,457,880	1,595,500	1,097,200	1,480,300	1,538,400
Morocco .. .. .	1,097,273	907,905	826,338	772,743	604,080	599,258
Mozambique .. .. .	44	22	13	—	5	—
South Africa .. .. .	2,226,204	2,288,279	2,549,206	2,736,868	2,916,660	3,131,580
South West Africa ( <i>c</i> ) .. .. .	1,061,033	1,061,043	1,468,932	1,312,670	1,161,220	1,637,554
Tunisia .. .. .	34,400	69,767	24,600	9,030	12,600	33,800
Cuba ( <i>f</i> ) .. .. .	121,415	—	—	—	—	—
Guatemala .. .. .	663,121	515,905	370,595	64,173	( <i>i</i> ) 9,445	<i>n.a.</i>
Haiti .. .. .	( <i>f</i> ) 19,600	61,424	94,761	107,022	92,057	( <i>f</i> ) 92,000
Honduras .. .. .	r 2,948,341	3,544,702	3,179,653	f 3,164,000	3,220,371	3,670,659
Mexico .. .. .	44,526,460	40,350,000	41,220,000	42,760,000	41,716,260	40,332,080
Nicaragua .. .. .	326,673	417,253	500,050	405,252	332,370	380,377

(a) Exports.

(b) Recovered from copper-refinery slimes.

(c) Accounted for by smelters.

(d) Including silver in lead concentrates exported amounting to 572,428 and 38,372 fine troy ounces in 1960 and 1961 respectively.

(e) "Metallgesellschaft" estimate.

(h) Refined.

(f) United States Bureau of Mines' estimate.

(i) Imports into the United States.

(g) Estimated.

## PRODUCTION OF SILVER (cont.)

Fine troy ounces

Producing Country	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Salvador .. .. .	76,809	—	—	—	—	—
United States .. .. .	30,766,327	34,794,456	36,798,000	35,243,000	36,334,000	39,806,000
Argentina .. .. .	1,671,838	1,430,675	2,086,101	r 1,928,530	1,945,795	2,256,500
Bolivia (b) .. .. .	4,887,138	3,901,010	3,759,129	4,869,037	4,810,973	3,550,210
Brazil .. .. .	252,900	231,900	250,000	r 281,400	305,400	(c) 300,000
Chile .. .. .	r 1,679,100	r 2,191,200	1,906,500	2,530,400	2,800,800	n.a.
Colombia .. .. .	134,331	127,943	131,599	106,280	130,353	113,451
Ecuador .. .. .	126,400	101,200	127,700	121,800	117,126	69,966
Peru (d) .. .. .	30,755,496	34,161,710	32,930,780	36,800,350	37,043,220	35,255,410
Burma .. .. .	1,984,263	1,743,302	1,940,037	2,075,282	1,866,752	n.a.
China (a) .. .. .	800,000	800,000	800,000	800,000	800,000	800,000
Formosa .. .. .	52,600	77,300	80,100	61,400	60,600	87,300
Indonesia .. .. .	310,512	324,079	248,236	279,840	(c) 262,100	298,777
Japan .. .. .	6,912,600	7,960,200	r 8,660,510	8,812,070	8,714,750	8,970,000
Korea (South) .. .. .	329,640	460,430	412,910	444,000	404,460	434,000
Korea (North) (a) .. .. .	500,000	500,000	500,000	500,000	500,000	500,000
Philippine Republic .. .. .	1,133,343	812,793	675,570	r 767,249	907,504	921,339
<b>TOTAL*</b> .. .. .	<b>159,000,000</b>	<b>165,000,000</b>	<b>r168,000,000</b>	<b>r173,000,000</b>	<b>171,000,000</b>	<b>173,000,000</b>
<b>WORLD'S TOTAL*</b> .. .. .	<b>210,000,000</b>	<b>210,000,000</b>	<b>r218,000,000</b>	<b>r224,000,000</b>	<b>221,000,000</b>	<b>223,000,000</b>

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

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

EXPORTS OF SILVER\*

(Metal content)

Fine troy ounces

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom—						
Bullion .. .. .	6,316,238	11,394,246	19,794,688	15,886,206	14,218,779	20,935,000
Ghana—						
Bullion .. .. .	14,160	7,027	4,443	4,827	<i>n.a.</i>	—
Kenya—						
Refined bullion.. ..	33,865	37,836	46,304	44,114	46,834	29,750
Rhodesia (b) .. .. .						
Bullion .. .. .	76,096	132,547	83,913	85,077	96,280	83,285
Tanzania—						
Concentrates .. ..	572,428	38,372	—	—	—	—
Refined bullion.. ..	23,053	25,860	23,959	22,521	25,329	22,865
Uganda—						
Bullion .. .. .	109	70	38	9	—	2
Zambia—						
Bullion .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	40,000	2,539
Canada—						
Ore, concentrates, etc.	8,897,402	10,352,700	8,801,332	8,286,756	9,478,317	12,245,877
Bullion .. .. .	12,761,063	10,783,414	9,445,094	10,834,629	10,583,439	11,268,110
Malaya—						
Bullion .. .. .	1,087,500	703,000	2,299,000	1,735,000	635,000	571,000
Australia (a)—						
Ores and concentrates	2,362,204	2,723,394	2,748,415	3,045,752	3,766,059	2,740,289
Silver-lead bullion ..	3,941,164	4,299,192	3,260,286	5,233,426	5,502,534	3,367,282
Bullion, refined .. ..	3,404,372	1,756,486	732,480	239,166	4,536,735	1,366,813
do. unrefined .. .. .	—	—	—	—	4,308	—
Beaten, rolled or drawn	12,660	88,141	7,005	4,429	33,027	89,101
Fiji—						
Bullion .. .. .	19,652	—	1,840	2,560	(c) 60,260	(c) 60,640
New Guinea (a)—						
Bullion .. .. .	40,733	28,961	27,438	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Irish Republic—						
Bullion .. .. .	7,700	9,400	328,400	182,100	214,000	14,100
<b>OTHER COUNTRIES</b>						
Belgium-Luxemburg						
E.U.—						
Bullion and scrap ..	11,358,000	6,337,000	8,198,000	10,510,000	10,870,000	8,131,000
Denmark—						
Bullion .. .. .	55,000	54,000	40,000	15,000	36,000	45,000
Beaten, rolled or drawn	16,000	2,000	—	1,000	13,000	12,000
France—						
Bullion and scrap .. ..	1,359,000	937,000	3,880,000	1,751,000	1,031,000	1,183,000
Beaten, rolled or drawn	799,000	693,000	557,000	1,096,000	3,077,000	4,904,000
Germany (Federal)—						
Bullion .. .. .	14,872,000	18,621,000	19,377,000	21,873,000	18,066,000	15,751,000
Italy—						
Bullion and scrap .. ..	3,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Netherlands—						
Bullion and scrap .. ..	631,000	646,000	2,673,000	1,432,000	588,000	1,355,000
Beaten, rolled or drawn	381,000	304,000	295,000	233,000	284,000	345,000
Spain—						
Bullion .. .. .	322,000	—	—	—	—	—
Sweden—						
Bullion .. .. .	997,000	1,382,000	1,591,000	1,222,000	482,000	390,000

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

(a) Years ended June 30 of that stated.

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

(b) Figures for 1960 to 1963 relate to Rhodesia and Nyasland.

## EXPORTS OF SILVER (cont.)

Fine troy ounces

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Switzerland—						
Bullion .. .. .	38,000	107,000	362,000	470,000	211,000	1,107,000
Yugoslavia—						
Bullion .. .. .	2,293,000	2,572,000	2,850,000	2,572,000	2,415,000	3,079,000
Morocco—						
Bullion .. .. .	—	2,000	—	5,000	85,000	17,500
South Africa—						
Bullion .. .. .	1,570,306	1,629,320	2,120,592	1,679,079	1,699,777	2,773,203
South West Africa—						
Concentrates (b) ..	1,004,920	1,833,437	1,253,200	634,134	328,808	461,581
Guatemala (a)—						
Ore and base bullion ..	—	142,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Honduras—						
Ore and base bullion ..	2,584,984	3,327,020	2,905,530	4,556,000	2,350,740	<i>n.a.</i>
Cuba (a)—						
Bullion, etc. .. .. .	121,000	—	—	—	—	—
Mexico—						
Bullion, etc. .. .. .	34,430,000	30,775,000	33,545,000	46,127,000	34,389,000	29,521,000
Nicaragua—						
Bullion .. .. .	212,000	241,000	288,134	203,514	168,791	165,700
Salvador—						
Bullion .. .. .	78,000	—	—	3,400	—	11,000
United States—						
Ore and base bullion ..	291,000	653,717	770,000	1,298,000	2,676,000	} 39,700,000
Refined bullion .. .. .	26,302,000	39,173,558	12,287,000	30,187,000	106,718,000	
Argentina—						
Bullion, etc. .. .. .	641,000	70,000	786,000	731,000	268,000	161,000
Bolivia—						
Ores, etc. .. .. .	4,887,138	3,901,010	3,759,129	4,869,037	4,810,973	3,550,210
Chile—						
Ores, etc. .. .. .	1,319,804	2,004,068	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Bullion and scrap ..	126,000	—	—	—	—	—
Ecuador (a)—						
Ore and base bullion ..	94,000	62,000	70,000	53,000	51,000	<i>n.a.</i>
Peru—						
Ores and concentrates	15,511,489	15,399,592	14,387,584	14,166,621	14,413,403	13,348,043
Bullion .. .. .	13,875,412	17,446,202	19,620,308	17,000,000	23,000,000	19,695,419
Matte, slag, etc. ..	400,750	437,971	380,721	500,674	125,169	938
Burma—						
Bullion .. .. .	1,525,295	1,195,970	1,400,129	1,250,912	1,406,039	1,002,648
Japan—						
Bullion and scrap ..	10,000	12,000	(c) 386,000	(c) 94,000	(c) 2,913,000	(c) 155,000
Philippine Republic (a)—						
Ore and base bullion ..	2,195,000	602,000	359,000	403,000	351,700	<i>n.a.</i>

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

(b) Contained in lead complex concentrates exported.

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

**TOTAL IMPORTS OF SILVER\***  
(Metal content)

Fine troy ounces

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom—						
Ores .. .. .	4,001,000	3,529,000	3,731,000	4,614,000	(d) 8,000	(d) 142,000
Unrefined bullion .. .. .	1,546,202	957,994	2,295,008	1,069,413	340,387	5,466,339
Refined bullion .. .. .	27,279,961	64,845,184	37,781,500	20,353,712	54,972,152	35,666,545
Malta—						
Bullion .. .. .	7,100	6,200	8,400	7,800	10,000	(f) 7,800
Ghana—						
Bullion .. .. .	32,025	20,499	36	6,368	400	176
Nigeria—						
Bullion, etc. .. .. .	32,189	562	13,737	19,363	22,284	20,702
Sierra Leone—						
Bullion .. .. .	2,305	4,349	3,450	6,936	1,344	n.a.
Zambia—						
Bullion .. .. .	n.a.	n.a.	n.a.	n.a.	n.a.	2,539
Canada—						
Bullion .. .. .	3,849,115	12,278,469	15,182,336	7,949,829	c) 5,197,764	c) 13,413,434
Jamaica—						
Bullion .. .. .	—	1,800	1,500	1,000	1,800	200
Trinidad and Tobago—						
Bullion .. .. .	9,306	9,480	15,062	13,103	17,401	n.a.
British Guiana—						
Bullion .. .. .	4,100	3,700	2,656	n.a.	3,260	5,655
Ceylon—						
Bullion .. .. .	7,600	—	19,800	18,000	—	9,800
Cyprus—						
Bullion .. .. .	52,000	55,000	60,500	62,400	43,600	76,000
Hong Kong—						
Bullion .. .. .	r(e) 495,000	r(e) 472,000	r(e) 657,000	r e 1,343,000	(e) 3,488,000	(e) 1,352,000
India (b)—						
Bullion .. .. .	37,500	70,500	44,000	33,070	7,901	6,646
Malaya—						
Bullion .. .. .	5,200	1,100	1,700	2,900	1,800	5,300
Sarawak—						
Bullion .. .. .	—	—	—	15	1,051	88
Australia (a)—						
Matte .. .. .	—	11,609	25,203	5,635	—	—
Bullion .. .. .	89,814	65,540	64,749	93,876	102,906	89,484
Beaten, rolled or drawn	197	340	5,429	12,850	11,529	2,740
New Zealand—						
Bullion .. .. .	70,158	19,079	71,901	(a) 77,423	n.a.	n.a.
Beaten, rolled or drawn	13,000	22,600	871,608	(a) 20,965	(a) (e) 8,056	n.a.
Irish Republic—						
Bullion .. .. .	—	—	—	—	216,981	8,430
<b>OTHER COUNTRIES</b>						
Austria—						
Bullion .. .. .	954,000	4,065,000	1,893,000	6,086,000	2,090,000	3,199,000
Belgium-Luxemburg						
E.U.—						
Bullion and scrap .. .. .	2,620,000	4,511,000	6,406,000	6,768,000	7,298,000	7,588,000
Denmark—						
Bullion .. .. .	1,269,000	1,045,000	1,122,000	665,000	678,000	812,000
Beaten, rolled or drawn	1,799,000	2,074,000	2,201,000	2,385,000	3,324,000	3,625,000
Finland—						
Bullion, etc. .. .. .	723,000	354,000	15,000	859,000	340,000	n.a.

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

(a) Years ended June 30 of that stated.

(c) Including anodes.

(b) Years ended March 31 following that stated.

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

(e) Excess of re-exports.

(f) Including partly worked.

## IMPORTS OF SILVER (cont.)

Fine troy ounces

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
France—						
Bullion and scrap ..	26,526,000	12,856,000	18,813,000	24,732,000	27,822,000	22,061,000
Beaten, rolled or drawn	275,000	502,000	287,000	810,000	1,000,000	1,091,000
Germany (Federal)—						
Bullion .. .. .	35,109,000	44,001,000	39,554,000	40,895,000	45,180,000	55,463,000
Italy—						
Bullion and scrap ..	8,979,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Netherlands—						
Bullion and scrap ..	1,308,000	1,847,000	4,600,000	3,326,000	3,039,000	5,098,000
Beaten, rolled or drawn	779,000	847,000	775,000	814,000	1,399,000	3,397,000
Norway—						
Bullion .. .. .	988,000	919,000	830,000	629,000	1,105,000	1,726,000
Beaten, rolled or drawn	1,290,000	1,364,000	1,282,000	867,000	1,491,000	1,540,000
Portugal—						
Bullion and scrap ..	2,808,000	1,360,000	1,283,000	1,021,000	964,000	578,000
Beaten, rolled and drawn	22,000	24,000	90,000	45,000	58,000	129,000
Sweden—						
Bullion .. .. .	643,000	354,000	386,000	450,000	450,000	510,000
Switzerland—						
Bullion .. .. .	3,792,000	12,582,000	6,122,000	10,266,000	11,175,000	4,190,000
Algeria—						
Bullion and scrap ..	38,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Beaten, rolled or drawn	114,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
South Africa—						
Bullion .. .. .	—	52,000	—	<i>n.a.</i>	1,000	<i>n.a.</i>
Guatemala—						
Bullion .. .. .	162,000	304,000	311,000	2,500	20,000	1,500
United States—						
Ore and base bullion ..	43,404,000	34,558,974	37,168,000	41,660,000	43,146,000	} 54,700,000
Refined bullion .. .	17,253,000	15,697,216	39,191,000	17,402,000	8,528,000	
Brazil—						
Bullion .. .. .	500,000	1,007,000	1,076,000	1,195,000	<i>n.a.</i>	734,000
Colombia—						
Bullion and scrap ..	122,000	36,000	19,000	50,000	56,000	66,000
Japan—						
Bullion and scrap ..	6,834,000	3,826,000	(a)3,402,000	3,627,000	9,937,000	4,789,000
Lebanon—						
Bullion and scrap ..	74,000	6,400	89,200	42,700	47,400	<i>n.a.</i>
Turkey—						
Bullion, etc. .. .	36,000	10,000	64,000	6,000	7,000	3,000

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

## STRONTIUM MINERALS

### PRODUCTION OF STRONTIUM MINERALS

Long tons

Producing Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—						
Celestite .. ..	6,604	8,679	6,532	9,019	17,033	9,549
Pakistan (b)—						
Celestite .. ..	1,332	414	288	379	265	444
OTHER COUNTRIES						
Italy—						
Celestite .. ..	817	965	591	644	450	630
Mexico (a)—						
Celestite .. ..	2,650	2,488	4,202	6,092	4,815	<i>n.a.</i>

Strontium minerals are also known to have been produced in Germany, Poland, the U.S.S.R. and Argentina.

(a) Exports.

(b) West Pakistan.

### EXPORTS OF STRONTIUM MINERALS, ETC.

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—						
Celestite .. ..	4,935	5,943	3,523	9,437	15,234	5,441
OTHER COUNTRIES						
France—						
Oxide .. ..	1	2	2	2	69	2
Italy—						
Strontianite and celestite	242	285	90	89	132	97
Mexico—						
Celestite .. ..	2,650	2,488	4,202	6,092	4,815	<i>n.a.</i>

### IMPORTS OF STRONTIUM MINERALS, ETC.

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES						
Germany (Federal)—						
Strontianite and celestite	280	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
United States—						
Strontianite and celestite	5,523	8,867	6,687	14,493	19,301	8,697
Strontium compounds..	—	—	—	4	6	7

**SULPHUR**  
(see also Pyrites)  
**PRODUCTION OF SULPHUR**

Long tons

Producing Country and Description	Estimated Sulphur Content						1965	1964	1963	1962	1961	1960
	1960	1961	1962	1963	1964	1965						
<b>COMMONWEALTH COUNTRIES</b>												
United Kingdom—												
Sulphur content of zinc concentrates ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	60,743	65,366	61,246	n.a.
Spent oxide ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	110,484	120,634	101,196	n.a.
Anhydrite (a) ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	180,291	146,600	160,814	n.a.
Other (b) ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	51,929	58,406	62,402	n.a.
Canada—												
Smelter gas ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	261,364	247,371	258,589	n.a.
Hydrogen sulphide (i) (g) ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	620,623	352,466	244,963	n.a.
Trinidad (f) ..	5,000	5,000	7,000	7,000	7,000	7,000	7,000	7,000	5,000	5,000	5,000	7,000
Australia—												
Sulphur content of: zinc concentrates ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	184,087	175,299	175,397	n.a.
lead concentrates ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	60,727	45,282	49,102	n.a.
Spent oxide ..	10,309	7,334	397	397	—	—	—	—	2,381	2,375	3,975	—
<b>OTHER COUNTRIES</b>												
Austria—												
Recovered sulphur ..	—	—	—	—	6,000	6,000	6,000	6,000	—	—	—	—
Bulgaria (e) ..	5,000	5,000	6,000	6,000	7,000	7,000	7,000	7,000	6,000	5,000	5,000	6,000
France—												
Sulphur (d) ..	779,000	1,088,000	1,325,533	1,386,280	1,486,841	1,497,000	1,497,000	1,497,000	n.a.	n.a.	n.a.	n.a.
Finland (c) ..	—	—	—	37,610	67,063	72,606	72,606	72,606	—	—	—	—
Germany (Federal)—												
Refined sulphur ..	82,807	82,860	89,234	84,949	76,602	75,412	75,412	75,412	89,234	82,860	82,807	n.a.
Germany (East)—												
Sulphur ..	110,130	115,451	118,559	117,980	123,081	122,835	122,835	122,835	118,559	115,451	110,130	n.a.
Italy—												
Sulphur rock ..	1,256,193	1,200,404	1,049,354	968,867	667,773	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Fused (e) ..	78,318	69,943	53,454	41,128	28,472	35,654	35,654	35,654	53,454	69,943	78,318	n.a.
Ground sulphur rock (e) ..	25,361	17,567	29,122	28,035	23,033	18,627	18,627	18,627	9,000	5,300	7,600	n.a.

(a) For sulphuric acid manufacture only.

(b) Including sulphur recovered from petroleum refineries.

(c) Sulphur recovered from pyrites or other sulphide ores.

(d) Recovered from natural gas.

(e) Derived from sulphur rock above.

(f) Recovered from petroleum refineries. Estimated.

(g) Sales.

(h) United States Bureau of Mines' estimate.

(i) Recovered from natural gas and nickel sulphide.



PRODUCTION OF SULPHUR (cont.)

Long tons

Producing Country and Description	Estimated Sulphur Content											
	1960	1961	1962	1963	1964	1965	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES (cont.)												
Netherlands (i) .. .. .	30,000	28,000	31,000	34,000	28,400	d 28,400	30,000	28,000	31,000	34,000	28,400	28,400
Norway (i) .. .. .	71,256	61,157	45,204	—	—	—	71,178	61,090	45,158	—	—	—
Poland—												
Native sulphur .. .. .	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	25,800	131,000	207,000	231,500	289,900	424,000
Portugal (i) .. .. .	10,915	8,813	6,677	3,000	—	—	10,773	8,698	6,590	3,000	—	—
Spain—												
Sulphur rock .. .. .	16,691	—	—	—	—	—	1,336	—	—	—	—	—
Refined sulphur (h) .. .. .	40,194	48,323	41,836	68,036	75,451	29,671	40,194	48,323	41,836	68,036	75,451	29,671
Sweden—												
Sulphur .. .. .	38,300	30,491	29,900	25,900	27,009	n.a.	38,300	30,491	29,900	25,900	27,009	n.a.
U.S.S.R. (d)—												
Native sulphur .. .. .	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	800,000	900,000	950,000	950,000	950,000	1,000,000
By-product sulphur .. .. .	210,000	275,000	370,000	400,000	400,000	420,000	210,000	275,000	370,000	400,000	400,000	420,000
Egypt—												
Native sulphur .. .. .	18,000	44,692	30,561	4,675	—	—	2,300	5,000	3,000	500	—	—
By-product sulphur (a) .. .. .	2,369	2,546	r 2,039	r 2,363	2,427	3,648	2,369	2,546	2,039	2,363	2,427	3,648
South Africa—												
By-product sulphur (a) .. .. .	—	2,163	1,913	1,981	5,701	7,102	—	2,163	1,913	1,981	5,701	7,102
Mexico—												
Crude sulphur (f) .. .. .	1,261,570	1,148,494	1,350,375	1,456,656	1,635,767	1,481,236	1,261,570	1,148,494	1,350,375	1,456,656	1,635,767	1,481,236
Sulphur ore (g) .. .. .	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	(d) 17,700	25,116	26,751	28,968	25,989	33,800
Refined sulphur (e) .. .. .	45,025	51,086	46,545	43,308	36,296	45,201	45,025	51,086	46,545	43,308	36,296	45,201
Netherlands Antilles—												
By-product sulphur (a) .. .. .	n.a.	n.a.	n.a.	n.a.	26,000	25,000	n.a.	n.a.	n.a.	n.a.	26,000	25,000
United States—												
Crude sulphur (f) .. .. .	4,942,935	5,385,468	4,984,578	4,881,512	5,228,207	6,116,273	4,942,935	5,385,468	4,984,578	4,881,512	5,228,207	6,116,273
Sulphur ore (g) .. .. .	379,067	400,015	162,186	1,371	794	n.a.	94,357	92,025	40,840	415	158	133
Smelter gas (b) .. .. .	1,056,890	1,016,731	1,088,397	1,089,523	1,119,976	n.a.	345,075	331,963	355,362	355,730	365,706	n.a.
By-product sulphur (c) .. .. .	769,319	861,413	902,124	949,567	1,024,649	n.a.	766,566	858,169	899,598	946,753	1,021,358	1,215,171
Hydrogen sulphide and liquid sulphur dioxide (c) .. .. .	114,359	126,923	115,670	136,509	143,689	n.a.	95,395	106,335	97,787	115,826	123,474	n.a.

(a) Recovered from petroleum refineries.  
 (b) Estimated sulphur content of gas driven off in the smelting of lead, zinc and copper concentrates, recovered as sulphuric acid.  
 (c) Produced in treatment of industrial gases.  
 (d) United States Bureau of Mines' estimate.  
 (e) Recovered from natural gas.  
 (f) Frasch-process mines.  
 (g) Other mines.  
 (h) Mainly recovered from pyrites.  
 (i) Sulphur recovered from pyrites or other sulphide ores.

PRODUCTION OF SULPHUR (cont.)

Long tons

Producing Country and Description	Estimated Sulphur Content						
	1960	1961	1962	1963	1964	1965	1965
<b>OTHER COUNTRIES</b> (cont.)							
Argentina—							
Refined sulphur	27,387	27,824	26,376	22,141	21,955	28,863	28,863
Bolivia (f)—							
Refined sulphur	1,175	4,897	7,247	9,793	10,635	9,305	9,305
Chile—							
Smelter gases, etc. (g)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Refined sulphur	30,901	43,994	63,226	40,271	40,496	77,720	5,396
Colombia—							
Refined sulphur	9,000	9,900	10,046	13,000	11,942	18,114	18,114
China (c)—							
Native sulphur	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Recovered sulphur (d)	130,000	130,000	130,000	130,000	130,000	130,000	120,000
Recovered sulphur	5,725	5,472	7,462	7,945	9,170	6,772	130,000
Iran—							
Native sulphur	n.a.	n.a.	n.a.	(h)10,500	n.a.	n.a.	n.a.
By-product sulphur (a)(c)	20,000	20,000	15,000	20,000	20,000	20,000	20,000
Japan—							
Refined sulphur (e)	243,683	238,455	220,438	r 219,094	237,412	210,000	210,000
By-product sulphur (a)	8,326	8,163	8,549	11,429	18,499	n.a.	n.a.
Philippine Republic (b)	n.a.	n.a.	n.a.	n.a.	n.a.	—	—
Turkey—							
Refined sulphur	16,830	15,506	18,246	19,123	21,800	23,000	23,000

Sulphur is also produced in Iraq.

(a) Recovered from petroleum refineries.

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

(c) United States Bureau of Mines' estimate.

(d) Probably recovered from pyrites.

(e) From sulphur rock and sulphide ores.

(f) Exports.

(g) Sulphur contained in sulphuric acid.

(h) Year ended March 20 of year following that stated.

EXPORTS OF SULPHUR

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom .. .. .	4,148	3,978	1,738	2,045	2,162	1,950
Canada .. .. .	127,715	194,523	357,166	732,972	1,155,881	1,337,453
Malaya .. .. .	43	36	3	26	30	19
Australia—						
Zinc concentrates						
( <i>S content</i> ) (a) .. .. .	82,500	70,000	65,000	66,000	57,000	54,000
New Zealand .. .. .	8	10	—	(b) 1	(b) 5	—
<b>OTHER COUNTRIES</b>						
Belgium-Luxemburg						
E.U.—						
Crude .. .. .	875	1,546	3,752	422	283	371
Refined .. .. .	2,457	3,245	5,529	7,674	7,438	6,658
France—						
Crude .. .. .	412,821	561,958	534,930	993,977	1,017,792	898,815
Unrefined ground .. .. .	4,542	2,775	2,707	2,413	1,638	2,316
Refined lump .. .. .	770	1,161	767	492	504	736
Flowers of sulphur .. .. .	4,920	5,411	5,346	6,527	8,274	8,797
Precipitated sulphur .. .. .	2	1	21	38	—	28
Germany (Federal) .. .. .	19,956	16,354	21,839	24,751	25,700	26,674
Germany (East) .. .. .	23,554	33,022	41,060	20,316	11,702	5,914
Italy—						
Crude .. .. .	25,824	17,550	3,103	75	87	—
Refined .. .. .	22,980	22,920	8,746	7,461	4,303	2,131
Flowers of sulphur .. .. .	517	365	297	436	286	259
Precipitated sulphur .. .. .	1	12	30	21	3	37
Netherlands—						
Crude .. .. .	5,236	5,005	5,042	6,833	4,388	3,002
Refined .. .. .	29	14	38	6	37	3
Norway .. .. .	56,389	34,271	32,251	7,287	425	—
Portugal .. .. .	442	455	317	28	152	637
Spain—						
Refined .. .. .	—	—	—	487	271	398
Sweden .. .. .	432	286	330	187	189	331
U.S.S.R. .. .. .	112,000	214,700	106,400	102,100	144,800	151,800
South Africa .. .. .	65	151	—	—	115	—
Mexico .. .. .	1,233,691	1,136,452	1,309,975	1,482,983	1,811,600	1,515,494
United States—						
Crude .. .. .	1,775,526	1,585,531	1,537,419	1,603,438	1,920,392	2,624,052
Refined and flowers of sulphur .. .. .	11,017	10,512	16,567	9,199	7,700	27,683
Bolivia .. .. .	1,175	4,897	7,247	9,793	10,635	9,305
Chile .. .. .	800	714	631	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Japan .. .. .	217	284	301	133	154	188

(a) Estimated amount recoverable.

(b) Years ended June 30 of that stated.

## IMPORTS OF SULPHUR

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom—						
Sulphur .. .. .	486,899	496,193	495,776	543,047	709,651	795,552
Wastes and residues .. ..	13,531	20,079	16,986	12,751	—	—
Malta—						
Crude .. .. .	30	—	—	—	2	31
Flowers of sulphur .. ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	241
	(£8,522)	(£9,109)	(£11,539)	(£12,347)	(£13,531)	(£9,128)
Kenya .. .. .	162	150	287	365	1,388	1,450
Mauritius .. .. .	80	74	36	39	1	104
Rhodesia (a) .. .. .	8	110	220	118	<i>n.a.</i>	<i>n.a.</i>
Tanzania .. .. .	269	460	328	272	239	266
Uganda .. .. .	1,050	402	2,676	1,699	1,539	5,815
Zambia—						
Crude .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	4,987
Flowers of sulphur .. ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	34
Canada .. .. .	293,540	291,844	174,125	134,497	(b) 133,542	(b) 144,822
Jamaica .. .. .	16	4	16	1,103	1,004	1,006
Trinidad and Tobago .. ..	8,151	27,277	9,753	11,130	16,415	<i>n.a.</i>
British Guiana .. .. .	1	—	1	<i>n.a.</i>	5	5
Ceylon .. .. .	2,803	3,467	958	4,055	2,562	1,907
Cyprus .. .. .	1,256	1,583	1,707	1,828	1,486	1,833
Hong Kong .. .. .	<i>r</i> 1,260	<i>r</i> 1,151	<i>r</i> 1,268	<i>r</i> 1,511	422	376
India .. .. .	176,078	188,410	244,114	256,896	237,352	278,774
Malaya .. .. .	1,107	1,517	2,077	3,516	4,448	6,267
Pakistan .. .. .	3,782	5,634	5,179	4,766	16,948	<i>n.a.</i>
Australia .. .. .	221,778	182,052	229,195	222,527	376,639	387,868
New Zealand .. .. .	133,246	144,475	104,902	146,956	(c) 174,202	(c) 199,275
Irish Republic .. .. .	18,472	35,193	46,070	<i>r</i> 46,845	53,798	52,532
<b>OTHER COUNTRIES</b>						
Austria .. .. .	55,982	60,106	73,165	84,906	88,731	112,218
Belgium-Luxemburg						
E.U.—						
Crude .. .. .	180,462	163,476	167,455	176,660	210,204	269,824
Refined .. .. .	387	280	226	330	510	403
Czechoslovakia .. .. .	74,000	107,000	131,000	171,000	186,000	222,000
Denmark .. .. .	6,751	4,399	9,744	12,337	10,791	13,612
Finland .. .. .	98,722	84,749	82,571	58,589	66,329	71,737
France—						
Crude .. .. .	144,224	140,868	144,801	112,824	210,593	259,615
Unrefined ground .. ..	69	33	225	118	156	119
Refined lump .. .. .	33	44	153	264	618	255
Precipitated .. .. .	16	48	50	38	77	58
Germany (Federal) .. ..	174,622	158,316	216,554	288,081	398,384	478,168
Greece .. .. .	14,272	12,509	8,396	20,431	45,712	47,298
Hungary .. .. .	30,290	27,165	31,053	124,693	162,992	156,000
Netherlands—						
Crude .. .. .	95,330	125,167	120,697	133,317	163,227	212,939
Refined .. .. .	1,251	1,195	1,271	1,446	1,570	1,642
Norway .. .. .	7,275	9,854	14,085	35,009	45,966	57,097
Poland .. .. .	45,300	10,900	<i>n.a.</i>	26,700	19,200	6,889
Portugal .. .. .	8,039	11,953	20,614	31,597	37,552	53,863
Spain—						
Crude .. .. .	} 6,651	} 5,800	} 6,518	} 19,536	} 39,054	} 35,483
Refined, etc. .. .. .						
Sweden .. .. .	77,163	95,916	81,370	84,615	126,086	157,226
Switzerland—						
Crude and ground .. ..	69,482	54,038	61,497	63,600	52,111	79,912
Flowers of sulphur .. ..	322	121	212	187	216	251

(a) Figures for years 1960 to 1963 relate to Rhodesia and Nyasaland.

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

## IMPORTS OF SULPHUR (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
U.S.S.R. . . . .	49,500	43,800	31,600	r 83,800	143,500	24,800
Yugoslavia . . . .	13,291	18,633	11,426	12,473	18,187	15,468
Algeria—						
Crude . . . . .	33,468	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Unrefined, ground . . . . .	1,953	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Refined . . . . .	369	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Flowers of sulphur . . . . .	104	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Precipitated . . . . .	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Angola . . . . .	162	578	364	236	485	397
Canary Islands—						
Crude . . . . .	} 4,823	6,769	6,498	687	1,257	923
Refined, etc. . . . .						
Egypt . . . . .	14,117	8,757	8,444	17,935	5,977	5,028
Malagasy Republic . . . . .	15	7	3	18	29	<i>n.a.</i>
Morocco—						
Crude . . . . .	9,194	3,386	7,752	2,894	4,581	9,851
Unrefined, ground . . . . .	487	1,246	1,153	984	966	843
Refined . . . . .	558	325	75	156	92	117
Flowers of sulphur . . . . .	2,530	2,535	2,540	2,872	3,492	2,632
Precipitated . . . . .	203	8	12	24	46	34
Mozambique . . . . .	649	659	778	482	583	425
South Africa . . . . .	114,595	111,326	116,393	122,151	142,110	191,007
Tunisia—						
Crude and unrefined . . . . .	6,592	8,593	4,962	9,637	21,152	72,992
Refined and flowers of sulphur . . . . .	657	823	1,623	1,019	203	886
Costa Rica . . . . .	126	147	10	132	40	<i>n.a.</i>
Guatemala . . . . .	74	95	104	35	2	—
Mexico . . . . .	173	146	145	151	340	<i>n.a.</i>
Netherlands Antilles . . . . .	1,501	4,002	—	3,407	1,959	—
Nicaragua . . . . .	4,143	5,583	8,221	6,724	275	50
Salvador . . . . .	27	42	16	3,420	43	39
United States . . . . .	741,370	831,517	1,049,433	1,813,338	1,462,211	1,465,093
Argentina—						
Crude . . . . .	29,720	20,188	23,856	13,674	44,310	44,367
Refined and flowers of sulphur . . . . .	24	104	71	80	165	169
Bolivia . . . . .	18	32	11	58	<i>n.a.</i>	4
Brazil—						
Crude . . . . .	137,844	128,018	150,351	173,814	138,577	189,299
Refined . . . . .	242	161	182	—	—	558
Precipitated . . . . .	47	12	13	35	23	3
Colombia . . . . .	68	95	4,773	3,346	1,537	3,138
Ecuador . . . . .	<i>n.a.</i>	96	22	87	134	148
Peru . . . . .	12,189	9,825	15,515	12,745	12,062	15,757
Uruguay . . . . .	6,443	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Venezuela . . . . .	2,553	8,839	10,390	10,284	22,381	33,325
Burma . . . . .	691	1,688	1,468	402	513	1,234
Formosa . . . . .	10,683	11,915	15,252	39,775	86,535	116,788
Indonesia . . . . .	8,447	9,290	8,310	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Iran (a) . . . . .	<i>n.a.</i>	5,148	15,521	6,517	269	146
Iraq . . . . .	1,004	869	1,370	2,402	1,344	<i>n.a.</i>
Israel . . . . .	59,965	43,079	67,816	49,449	69,057	47,941
Japan . . . . .	93	101	35	13,588	24,227	53,119
Jordan . . . . .	825	1,455	1,556	2,787	2,319	<i>n.a.</i>
Korea (South) . . . . .	4,433	7,526	214	1,453	89	6,365
Lebanon . . . . .	3,504	3,692	3,501	9,586	2,375	<i>n.a.</i>
Philippine Republic . . . . .	1,815	535	2,744	3,905	5,438	<i>n.a.</i>
Syria . . . . .	1,151	904	1,032	558	1,363	51
Thailand . . . . .	3,216	2,268	3,746	6,644	9,288	6,643
Turkey—						
Refined and flowers of sulphur . . . . .	227	64	9	245	207	98

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

**TALC**  
**PRODUCTION OF TALC**  
(Including Steatite and Pyrophyllite)

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom .. .. .	6,468	6,930	7,357	7,976	10,155	9,977
Rhodesia .. .. .	—	—	20	19	14	<i>n.a.</i>
Swaziland—						
Pyrophyllite .. .. .	1,530	2,638	3,484	2,725	1,964	905
Canada (c) .. .. .	37,175	42,961	41,215	48,437	51,904	49,137
India—						
Steatite .. .. .	91,917	<i>r</i> 96,597	<i>r</i> 102,286	119,069	131,706	147,006
Pyrophyllite .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	5,975	10,538
Pakistan (f) .. .. .	3,370	1,473	1,102	1,840	2,519	2,799
Australia—						
Talc .. .. .	15,670	<i>r</i> 13,918	<i>r</i> 14,060	<i>r</i> 13,106	15,695	15,460
Pyrophyllite .. .. .	501	<i>r</i> 915	<i>r</i> 931	837	381	—
<b>OTHER COUNTRIES</b>						
Austria .. .. .	80,978	83,606	74,574	64,607	70,737	74,703
Finland .. .. .	9,829	6,221	6,329	6,649	5,900	6,900
France .. .. .	184,819	219,132	184,000	155,624	202,156	189,000
Germany (Federal) .. .. .	28,819	29,193	27,152	24,069	30,004	30,249
Greece .. .. .	1,793	1,825	2,377	2,701	(a) 2,800	(a) 3,500
Italy .. .. .	122,426	132,773	<i>r</i> 127,554	137,134	130,095	117,193
Norway .. .. .	75,537	89,999	89,321	71,908	75,880	75,000
Portugal .. .. .	669	709	321	531	787	699
Spain .. .. .	27,547	27,230	27,287	27,069	26,384	<i>n.a.</i>
Sweden .. .. .	15,595	15,420	17,144	18,478	16,400	18,300
U.S.S.R. (a) .. .. .	250,000	290,000	300,000	345,000	345,000	350,000
Egypt .. .. .	5,905	5,862	6,029	4,714	16,555	39,002
South Africa (b) .. .. .	1,767	2,928	12,429	6,755	6,512	9,096
Mexico .. .. .	4,303	4,121	<i>r</i> (a) 4,000	<i>r</i> (a) 4,000	(a) 4,000	(a) 4,000
United States—						
Talc .. .. .	544,502	540,142	577,215	602,982	673,072	657,687
Pyrophyllite .. .. .	111,278	140,554	111,828	115,195	121,525	112,737
Argentina .. .. .	25,940	28,609	28,708	27,618	24,022	(a) 25,000
Brazil .. .. .	19,603	23,400	37,695	34,364	44,500	56,738
Chile .. .. .	<i>n.a.</i>	1,836	1,871	2,541	2,716	1,465
Colombia .. .. .	350	550	650	650	718	400
Paraguay .. .. .	(a) 100	<i>r</i> —	<i>r</i> —	<i>r</i> —	46	138
Peru—						
Talc .. .. .	240	329	281	169	2,628	5,002
Pyrophyllite .. .. .	1,306	2,561	1,411	2,394		
Uruguay .. .. .	2,944	1,658	1,688	1,688	2,090	2,337
Afghanistan (d) .. .. .	700	700	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Burma .. .. .	<i>n.a.</i>	1,377	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
China (a) .. .. .	150,000	150,000	150,000	150,000	150,000	150,000
Formosa .. .. .	10,390	12,219	13,197	14,553	16,713	14,988
Iran (e) .. .. .	300	300	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Talc .. .. .	49,927	54,971	56,333	66,976	95,962	<i>n.a.</i>
Pyrophyllite .. .. .	533,068	569,593	523,713	776,373	942,116	<i>n.a.</i>
Korea (South)—						
Talc .. .. .	15,727	21,332	27,920	31,880	43,207	35,168
Pyrophyllite .. .. .	6,497	23,606	17,826	31,309	45,429	48,141
Korea (North) (a) .. .. .	3,900	14,500	20,000	20,000	20,000	20,000
Philippine Republic .. .. .	5	187	116	93	96	584
<b>TOTAL*</b> .. .. .	<b>2,440,000</b>	<b><i>r</i> 2,660,000</b>	<b><i>r</i> 2,620,000</b>	<b><i>r</i> 2,940,000</b>	<b>3,340,000</b>	<b>3,350,000</b>

\*Excluding talc known to have been produced in Roumania.

(a) United States Bureau of Mines' estimate.

(b) In addition the following amounts of wonderstone were produced (long tons):  
1960—624; 1961—913; 1962—1,650; 1963—1,826; 1964—1,677; 1965—3,569.

(c) Shipments. (d) Estimated. (e) Years ended 20 March of year following that stated.

(f) West Pakistan.

## EXPORTS OF TALC

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Canada .. .. .	1,482	(a) 1,800	(a) 2,100	(a) 2,000	(a) 2,300	(a) 3,100
India .. .. .	7,108	9,484	15,418	14,015	11,771	10,376
Malaya .. .. .	361	552	350	390	386	228
Australia .. .. .	3,905	4,191	4,988	4,025	5,181	6,769
<b>OTHER COUNTRIES</b>						
Austria .. .. .	62,452	61,397	55,008	50,803	54,915	59,535
Belgium-Luxemburg						
E.U. .. .. .	40	8	8	37	91	30
France .. .. .	42,497	43,558	44,113	48,840	50,468	50,372
Germany (Federal) ..	920	1,137	1,041	1,187	1,196	1,201
Italy .. .. .	49,405	49,381	50,787	46,428	42,983	42,384
Netherlands .. .. .	120	144	193	159	144	344
Norway .. .. .	62,020	60,878	63,162	65,508	73,581	68,480
Portugal .. .. .	13	20	5	6	87	12
Sweden .. .. .	1,838	1,352	1,968	1,435	4,131	5,001
Switzerland .. .. .	23	121	1,091	1,507	1,256	1,256
Egypt .. .. .	1,273	2,012	n.a.	1,012	1,619	n.a.
South Africa .. .. .	n.a.	n.a.	n.a.	n.a.	632	149
Mexico .. .. .	355	1	—	2	6	n.a.
United States .. .. .	53,087	42,779	41,910	50,431	66,070	62,140
Japan .. .. .	1,000	1,178	1,687	2,975	629	4,760
Korea (South)—						
Talc .. .. .	6,964	14,279	249	17,293	26,482	19,120
Pyrophyllite .. .. .	8,208	12,360	n.a.	n.a.	n.a.	n.a.

(a) Estimated.

## IMPORTS OF TALC

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—						
Unground .. .. .	848	994	624	} 44,131	47,832	45,619
Ground .. .. .	41,595	38,881	42,515			
Canada .. .. .	17,101	18,040	21,561	24,589	28,803	24,873
Ceylon .. .. .	1,855	1,530	2,191	1,885	1,007	1,302
Malaya .. .. .	5,803	7,154	3,436	5,498	4,596	3,489
Australia (a) .. .. .	539	958	1,468	3,155	2,631	2,340
New Zealand .. .. .	1,231	1,217	n.a.	(a) 1,254	(a) 1,315	n.a.
OTHER COUNTRIES						
Austria .. .. .	281	1,373	1,759	1,100	883	1,769
Belgium-Luxemburg						
E.U. .. .. .	13,148	13,417	14,846	15,829	16,690	15,986
Denmark .. .. .	10,750	11,376	11,606	10,904	12,966	13,072
Finland .. .. .	4,042	2,774	2,799	2,542	3,766	4,392
France .. .. .	4,831	6,622	6,899	8,543	7,635	6,784
Germany (Federal) .. .. .	47,681	48,391	50,038	49,264	59,769	68,212
Greece .. .. .	25	54	83	61	405	68
Italy .. .. .	3,916	6,607	8,664	12,971	12,115	11,098
Netherlands .. .. .	11,241	10,946	11,822	13,430	13,498	14,032
Norway .. .. .	1,405	1,570	2,718	3,621	3,037	4,009
Poland .. .. .	38,400	30,900	n.a.	8,600	10,200	17,801
Portugal .. .. .	914	990	1,180	1,358	1,912	1,911
Sweden .. .. .	9,088	11,614	10,428	12,867	14,457	16,487
Switzerland .. .. .	14,390	15,460	15,725	15,186	13,098	13,652
U.S.S.R. .. .. .	81,800	49,600	73,600	59,000	71,500	66,400
Yugoslavia .. .. .	335	400	348	670	6,602	9,733
Algeria .. .. .	4,317	n.a.	n.a.	n.a.	n.a.	n.a.
Egypt .. .. .	2	15	6	n.a.	n.a.	n.a.
Malagasy Republic .. .. .	5	16	9	3	8	n.a.
Morocco .. .. .	874	1,412	1,644	1,865	1,450	1,217
South Africa .. .. .	n.a.	n.a.	n.a.	n.a.	1,016	743
Tunisia .. .. .	654	498	655	688	619	332
Costa Rica .. .. .	80	85	83	133	103	137
Guatemala .. .. .	71	93	121	114	116	174
Honduras .. .. .	36	17	15	25	17	34
Mexico—						
Talc .. .. .	22,476	28,810	23,501	31,122	39,361	n.a.
Pyrophyllite .. .. .	1,485	271	95	60	89	n.a.
Salvador .. .. .	41	74	66	53	98	74
United States .. .. .	21,407	24,424	23,014	22,929	20,284	18,770
Argentina .. .. .	52	128	74	70	190	148
Brazil .. .. .	5	1	—	—	—	—
Chile .. .. .	34	67	53	274	n.a.	n.a.
Colombia .. .. .	1,126	976	1,111	991	981	971
Ecuador .. .. .	n.a.	159	86	164	169	173
Peru .. .. .	398	654	493	602	732	955
Venezuela .. .. .	1,212	1,446	1,741	1,914	2,733	2,954
Iran (b) .. .. .	n.a.	20	454	377	125	138
Iraq .. .. .	348	389	282	325	324	n.a.
Japan .. .. .	27,809	40,029	40,816	15,604	26,403	24,698
Lebanon .. .. .	474	301	148	218	217	n.a.
Philippine Republic .. .. .	2,532	1,800	1,710	2,684	2,531	n.a.
Syria .. .. .	n.a.	n.a.	491	44	581	485
Thailand .. .. .	863	1,276	1,371	1,161	1,747	841
Turkey .. .. .	274	324	179	279	93	217

(a) Years ended June 30 of that stated.

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



**TANTALUM AND NIOBIUM MINERALS**  
**PRODUCTION OF TANTALUM AND NIOBIUM MINERALS**

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
Kenya—						
Columbite .. ..	(385 lb.)	—	(375 lb.)	—	—	—
Nigeria—						
Tantalite .. ..	11	13	17	13	10	13
Columbite .. ..	2,047	2,345	2,264	2,011	2,339	2,548
Rhodesia—						
Tantalum concentrates	48	62	72	67	63	n.a.
Tanzania—						
Niobium concentrates (a)	(e) 150	(e) 120	—	—	—	—
Uganda—						
Tantalite and columbite	2	7	12	9	7	8
Canada—						
Niobium concentrates (Nb <sub>2</sub> O <sub>5</sub> content) ..	—	28	454	622	966	1,042
Malaya—						
Columbite .. ..	93	95	110	88	56	46
Australia—						
Tantalite and columbite	11	14	19	14	15	10
OTHER COUNTRIES						
Norway—						
Niobium concentrates (b)	341	316	344	377	320	148
Portugal—						
Tantalite and columbite	25	19	15	10	5	n.a.
Congo Republic—						
Tantalite and columbite concentrates (d) ..	232	66	139	115	n.a.	n.a.
Tin-tantalite-columbite	(c) 670	(c) 625	n.a.	n.a.	n.a.	n.a.
Ivory Coast—						
Tantalite and columbite	3	4	3	1	1	1
Malagasy Republic—						
Columbite .. ..	10	21	(a) 7	17	4	4
Mozambique—						
Tantalite and columbite	142	133	101	79	43	51
Rwanda and Burundi—						
Tantalite and columbite concentrates (d) ..	47	45	38	12	154	n.a.
South Africa—						
Tantalite and columbite	6	9	4	29	6	3
South West Africa—						
Tantalum and niobium concentrates .. ..	5	3	5	2	1	1

(a) Exports.

(b) 55% Nb<sub>2</sub>O<sub>5</sub> in 1960; 55.3% Nb<sub>2</sub>O<sub>5</sub> in 1961; 57.9% Nb<sub>2</sub>O<sub>5</sub> in 1962; 56.2% Nb<sub>2</sub>O<sub>5</sub> in 1963; 53.8% Nb<sub>2</sub>O<sub>5</sub> in 1964; 56% Nb<sub>2</sub>O<sub>5</sub> in 1965.

(c) United States Bureau of Mines' estimate.

(d) Including tantalite-columbite content of tin-tantalite-columbite.

(e) 25% Nb<sub>2</sub>O<sub>5</sub>.

PRODUCTION OF TANTALUM AND NIOBIUM MINERALS (cont.)

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Argentina (a)—						
Tantalite .. .. .	—	2	2	2	—	—
Brazil—						
Tantalite and columbite	210	106	137	129	24	12
Pyrochlore concentrates	—	r 1,504	r 100	—	318	1,177
French Guiana—						
Tantalite and columbite	—	—	—	2	1	—
TOTAL (b) ..	3,380	r 4,940	r 4,250	4,250	5,400	6,300

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

(a) Imports into the United States.

(b) Total of tantalum and niobium concentrates produced in the countries listed above.

## EXPORTS OF TANTALUM AND NIOBIUM MINERALS, ETC.

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom—						
Ferro-niobium and ferro-niobium-tantalum ..	97	83	68	173	153	215
Nigeria—						
Tantalite .. ..	11	11	13	20	11	8
Columbite .. ..	3,334	1,839	2,266	1,599	3,132	2,776
Rhodesia (d) .. ..						
Tantalum concentrates	46	38	74	87	74	17
Tanzania—						
Niobium concentrates ..	150	120	—	—	—	—
Uganda—						
Tantalite and columbite	3	3	9	6	6	15
Malaya—						
Columbite .. ..	99	138	98	65	6	52
Australia (a)—						
Tantalite and columbite	15	13	16	12	20	47
<b>OTHER COUNTRIES</b>						
Germany (Federal)—						
Tantalum metal, etc. ..	(28,400lb.)	(22,000lb.)	(24,900lb.)	(13,200lb.)	(9,500lb.)	(11,500lb.)
Niobium metal, etc. ..	(3,300lb.)	(2,900lb.)	(4,200lb.)	(1,000lb.)	(1,500lb.)	(12,500lb.)
Portugal—						
Tantalite and columbite	47	40	42	31	25	20
Norway—						
Niobium concentrates ..	270	192	264	281	308	165
Congo Republic (c)—						
Tantalite and columbite	200	120	130	140	50	120
Tantaliferous slag ..	806	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Malagasy Republic—						
Columbite .. ..	24	14	7	26	16	3
Mozambique—						
Columbite .. ..	<i>n.a.</i>	40	101	136	203	74
South Africa—						
Tantalite .. ..	1	1	10	21	—	6
South West Africa—						
Tantalite .. ..	1	2	4	1	—	1
United States—						
Tantalum concentrates	14	97	62	25	89	127
Niobium concentrates	69	25	10	21	153	<i>n.a.</i>
Tantalum metal, etc. ..	(17,559lb.)	(15,554lb.)	(18,078lb.)	(44,390lb.)	(32,489lb.)	(35,821lb.)
Niobium metal, etc. ..	(3,910lb.)	(13,376lb.)	(16,827lb.)	(14,276lb.)	(4,674lb.)	(4,217lb.)
Tantalum powder ..	(1,174lb.)	(5,585lb.)	(14,292lb.)	(14,146lb.)	(32,217lb.)	(9,621lb.)
Brazil—						
Tantalite .. ..	115	118	144	103	81	163
Columbite .. ..	12	17	17	19	11	39
Pyrochlore concentrates	—	—	—	753	67	1,313

(a) Years ended June 30 of that stated.

(b) Estimated.

(c) Including Rwanda and Burundi.

(d) Figures for 1960 to 1963 relate to Rhodesia and Nyasaland.

## IMPORTS OF TANTALUM AND NIOBIUM MINERALS, ETC.

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom—						
Tantalum and niobium ores and concentrates	618	576	485	745	1,439	1,752
Tantalum metal ..	(3,283lb.)	(5,444lb.)	(5,599lb.)	(8,394lb.)	(10,940lb.)	(12,363lb.)
<b>OTHER COUNTRIES</b>						
France—						
Tantalum and niobium minerals .. ..	155	145	88	71	148	136
Germany (Federal)—						
Tantalum and niobium minerals .. ..	1,209	(b) 650	(b) 350	(b) 650	<i>n.a.</i>	1,440
Tantalum metal, etc. ..	(4,900lb.)	(11,700lb.)	(13,700lb.)	(6,600lb.)	(11,500lb.)	(26,000lb.)
United States—						
Tantalum concentrates	310	361	541	422	438	534
Niobium concentrates ..	2,262	1,328	2,255	2,628	2,054	2,184
Tantalum metal ..	(1,960lb.)	(2,887lb.)	(1,788lb.)	(1,597lb.)	(3,491lb.)	(26,162lb.)
Niobium metal (a) ..	(3,133lb.)	(2,139lb.)	(9,489lb.)	(1,427lb.)	(3,792lb.)	(9,749lb.)
Japan—						
Niobium minerals ..	86	55	11	76	300	279

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

(b) Estimated.

**TIN**  
**PRODUCTION OF TIN ORE**  
*(Metal content)*

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom ..	1,180	1,188	1,173	1,286	1,254	1,263
Nigeria .. ..	7,677	7,778	8,211	8,725	8,721	9,535
Rhodesia .. ..	642	715	706	525	536	<i>n.a.</i>
Swaziland .. ..	6	5	5	4	2	2
Tanzania .. ..	138	169	214	242	283	255
Uganda .. .. .	32	33	69	165	217	178
Zambia .. .. .	—	1	5	1	9	16
Canada (b) .. .	278	500	291	414	157	183
Malaya .. .. .	51,979	56,028	58,603	59,948	60,004	63,669
Australia .. ..	2,202	2,745	2,715	2,860	3,642	3,743
<b>TOTAL .. .. .</b>	<b>64,134</b>	<b>69,162</b>	<b>71,992</b>	<b>74,170</b>	<b>74,825</b>	<b>79,400</b>
<b>OTHER COUNTRIES</b>						
France .. .. .	21	153	314	272	486	447
Germany (Eastern) (g) ..	1,000	1,000	1,000	1,000	1,000	1,000
Portugal .. .. .	772	729	679	718	676	583
Spain .. .. .	196	230	231	158	90	113
Cameroun .. .. .	64	65	20	25	39	38
Congo Republic .. ..	8,636	6,314	6,875	6,883	7,688	6,211
Congo (Republic of) .. .	35	47	46	43	35	44
Morocco .. .. .	10	11	11	9	14	(a) 12
Niger .. .. .	53	47	41	55	51	54
Rwanda and Burundi .. .	1,277	1,474	(a) 1,325	1,271	1,360	1,420
South Africa .. .. .	1,276	1,430	1,421	1,530	1,586	1,671
South West Africa .. .	261	302	369	443	474	416
Mexico .. .. .	365	530	576	1,055	1,206	503
United States .. .. .	10	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	47
Argentina .. .. .	<i>r</i> 138	<i>r</i> 257	231	<i>r</i> 225	343	345
Bolivia (c) .. .. .	18,938	20,318	20,366	22,499	22,960	23,828
Brazil .. .. .	1,556	<i>r</i> 597	731	1,153	1,143	(a) 1,200
Peru (e) .. .. .	6	14	11	<i>r</i> 21	22	20
Burma .. .. .	950	951	1,041	914	568	(a) 600
China (d) (f) .. .. .	28,000	30,000	28,000	28,000	25,000	25,000
Indonesia .. .. .	22,594	18,573	17,310	12,947	16,345	14,699
Japan .. .. .	842	853	859	<i>r</i> 857	796	849
Laos .. .. .	383	<i>r</i> 335	367	(a) 400	(a) 500	(a) 480
Thailand .. .. .	12,080	13,270	14,679	15,585	15,597	19,048
<b>TOTAL* .. .. .</b>	<i>r</i> 99,000	<i>r</i> 98,000	<i>r</i> 97,000	<i>r</i> 96,000	98,000	99,000
<b>WORLD'S TOTAL*</b> .. .	<i>r</i> 163,000	<i>r</i> 167,000	<i>r</i> 169,000	<i>r</i> 170,000	173,000	178,000

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

- (a) International Tin Council estimate.
- (b) Tin in concentrates exported and in tin-lead alloy.
- (c) Content of ore plus metal exported.
- (d) Smelter.
- (e) Recoverable.
- (f) United States Bureau of Mines' estimate.
- (g) "Metallgesellschaft" estimate.

SMELTER PRODUCTION OF TIN

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom ..	26,374	24,449	18,749	17,444	16,849	16,494
Nigeria .. .. .	—	622	8,034	9,050	8,749	9,369
Rhodesia .. .. .	609	672	677	499	511	<i>n.a.</i>
Malaya .. .. .	76,366	79,114	82,073	84,001	71,351	72,469
Australia .. .. .	2,254	2,546	2,704	2,626	3,045	3,179
<b>TOTAL .. .. .</b>	<b>105,603</b>	<b>107,403</b>	<b>112,237</b>	<b>113,620</b>	<b>100,505</b>	<b>102,000</b>
<b>OTHER COUNTRIES</b>						
Belgium .. .. .	8,515	6,372	9,507	8,280	6,804	5,227
Germany—						
Federal Republic ..	782	947	1,309	1,052	1,178	1,427
Eastern (d) .. .. .	1,200	1,200	1,200	1,200	1,200	1,200
Netherlands .. .. .	6,393	2,729	4,282	5,762	15,858	18,114
Portugal .. .. .	601	784	766	663	589	584
Spain .. .. .	464	731	909	1,505	1,774	1,678
Congo Republic .. ..	2,532	275	945	1,441	1,485	(b) 1,800
Morocco (b) .. .. .	10	10	10	10	10	12
South Africa .. .. .	622	870	821	937	1,016	962
Mexico .. .. .	365	559	520	1,055	1,145	459
United States .. .. .	(b) 13,500	(b) 8,500	(b) 5,500	(b) 1,500	(b) 3,900	3,098
Argentina (b) .. .. .	120	120	120	120	120	120
Bolivia (a) .. .. .	1,020	1,840	1,882	2,209	2,461	3,406
Brazil .. .. .	1,311	1,525	1,835	2,051	(b) 2,100	(b) 2,100
China (c) .. .. .	28,000	30,000	28,000	28,000	25,000	25,000
Indonesia .. .. .	1,977	(b) 2,000	(b) 2,000	(b) 2,000	(b) 1,800	(b) 1,800
Japan .. .. .	1,215	1,555	r 1,822	r 1,612	1,485	1,634
Thailand .. .. .	—	—	—	—	—	4,704
<b>TOTAL* .. .. .</b>	<b>r 69,000</b>	<b>r 60,000</b>	<b>r 61,000</b>	<b>r 59,000</b>	<b>68,000</b>	<b>73,000</b>
<b>WORLD'S TOTAL* ..</b>	<b>r 174,000</b>	<b>r 167,000</b>	<b>r 173,000</b>	<b>r 173,000</b>	<b>168,000</b>	<b>175,000</b>

\*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:

	1960	1961	1962	1963	1964	1965
	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..
	22,050	21,690	21,040	22,332	23,508	25,076

- (a) Exports.
- (b) International Tin Council estimate.
- (c) United States Bureau of Mines' estimate.
- (d) "Metallgesellschaft" estimate.

## EXPORTS OF TIN, ETC.\*

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—						
Unwrought .. ..	7,777	9,799	7,156	8,450	6,443	6,682
do. alloys .. ..	1,529	1,839	2,333	2,656	2,995	2,601
Semi-manufactures (a)	301	301	468	334	514	937
Nigeria—						
Ore and concentrates ..	10,658	10,410	347	160	25	9
Unwrought .. ..	—	600	7,542	9,673	10,557	10,575
Rhodesia (c)—						
Ore and concentrates ..	15	254	31	—	54	71
Unwrought .. ..	483	486	549	463	473	399
Tanzania—						
Ore and concentrates ..	192	226	295	341	361	351
Uganda—						
Ore and concentrates ..	46	42	87	230	320	294
Zambia—						
Ore and concentrates ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	155	4
Canada—						
Concentrates ( <i>Sn content</i> ) .. ..	<i>n.a.</i>	480	287	800	329	216
Hong Kong—						
Scrap .. ..	—	2	65	10	—	19
Semi-manufactures	<i>r</i> 1	<i>r</i> 1	<i>r</i> 2	<i>r</i> 5	3	8
India (b)—						
Scrap .. ..	65	123	34	3	53	85
Malaya—						
Unwrought .. ..	76,366	78,025	81,392	86,094	71,314	73,382
do. alloys .. ..	40	66	26	40	22	22
Semi-manufactures (a)	2	2	2	1	14	43
Australia—						
Ore and concentrates ..						
( <i>Sn content</i> ) .. ..	2	178	27	139	321	682
Unwrought .. ..	14	1	—	7	1	—
do. alloys .. ..	24	1	2	39	8	7
OTHER COUNTRIES						
Austria—						
Unwrought (a) .. ..	120	92	1	38	55	41
Belgium-Luxemburg						
E.U.—						
Unwrought .. ..	7,981	4,405	6,803	6,319	4,506	3,896
do. alloys .. ..	124	124	93	60	68	215
Scrap .. ..	120	301	166	342	317	223
Semi-manufactures (a)	104	195	296	359	209	179
Denmark—						
Unwrought .. ..	130	111	18	53	44	54
do. alloys .. ..	2,780	3,873	632	653	729	608
Scrap .. ..	2	—	—	4	—	336
Semi-manufactures (a)	35	24	19	29	31	38
France—						
Ore .. ..	44	257	465	371	643	642
Unwrought .. ..	35	32	18	35	70	75
do. alloys .. ..	136	143	137	53	124	155
Semi-manufactures (a)	184	182	130	103	61	81
Germany (Federal)—						
Ore .. ..	<i>n.a.</i>	<i>n.a.</i>	84	81	81	66
Unwrought (a) .. ..	18,299	18,557	1,651	1,365	1,478	1,581
Scrap .. ..	<i>n.a.</i>	<i>n.a.</i>	3	111	59	78
Semi-manufactures (a)	105	160	82	129	120	168

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

(a) Including alloys.

(b) Years ended March 31 following that stated.

(c) Figures for 1960 to 1963 relate to Rhodesia and Nyasaland.

## EXPORTS OF TIN, ETC. (cont.)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b> (cont.)						
Italy—						
Unwrought (a) ..	131	27	213	23	241	162
Semi-manufactures (a)	18	19	28	9	6	7
Netherlands—						
Unwrought .. ..	12,234	8,583	4,157	4,187	13,813	15,651
do. alloys .. ..	5,164	3,989	504	666	605	313
Scrap (a) .. ..	156	311	281	555	323	378
Semi-manufactures (a)	184	233	322	260	367	288
Norway—						
Unwrought (a) ..	389	405	271	234	292	239
Semi-manufactures (a)	—	—	2	—	4	4
Portugal—						
Ore .. ..	145	65	—	116	122	35
Unwrought .. ..	314	806	486	203	375	204
Spain—						
Unwrought .. ..	—	10	—	—	494	260
Sweden—						
Unwrought .. ..	21	16	24	3	37	81
do. alloys .. ..	267	128	213	121	96	74
Switzerland—						
Unwrought .. ..	19	14	10	18	36	43
Scrap .. ..	166	254	195	164	132	134
Semi-manufactures (a)	17	33	37	35	23	26
U.S.S.R.—						
Unwrought .. ..	11,300	5,600	500	700	—	7
Algeria—						
Scrap .. ..	11	n.a.	n.a.	n.a.	n.a.	n.a.
Cameroun—						
Ore .. ..	103	89	120	36	76	78
Congo Republic (c)—						
Ore (b) .. ..	10,000	10,000	10,000	9,000	8,000	7,000
Unwrought .. ..	2,421	—	1,056	1,031	(b) 1,500	(b) 1,500
Congo (Republic of)—						
Ore .. ..	20	55	70	39	59	70
Niger—						
Ore .. ..	75	50	6	60	6	64
South Africa—						
Concentrates .. ..	1,499	1,394	1,422	1,730	978	1,125
South West Africa—						
Ore and concentrates ..	138	176	153	293	296	462
United States—						
Unwrought (a) ..	608	543	335	1,544	2,726	2,606
Scrap (a) .. ..	4,199	6,110	4,342	4,975	4,844	1,133
Semi-manufactures (a)	198	4,396	646	887	1,049	221
Argentina—						
Ore .. ..	109	183	137	47	70	16
Tin-silver ore .. ..	723	1,160	1,374	1,384	1,749	2,190
Bolivia—						
Ores, concentrates, etc. (Sn content) .. ..	17,918	18,478	18,484	20,290	20,499	20,422
Unwrought .. ..	1,020	1,840	1,882	2,209	2,461	3,406
Peru—						
Concentrates (Sn content) .. ..	30	16	23	21	39	12
Unwrought (Sn content) .. ..	—	29	7	6	—	77
Burma—						
Ore and concentrates (Sn content) .. ..	1,395	1,325	1,412	1,467	720	1,181
China—						
Unwrought (b) .. ..	22,000	18,000	15,000	12,000	7,000	7,000

(a) Including alloys.

(b) Estimated.

(c) Including Rwanda and Burundi.



EXPORTS OF TIN, ETC. (cont.)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Indonesia—						
Ore .. .. .	34,227	23,127	27,386	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
<i>Sn content</i> .. .. .	24,867	16,788	16,710	(b) 12,000	(b) 15,000	<i>n.a.</i>
Unwrought .. .. .	1,765	1,796	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Semi-manufactures (a)	13	103	351	1,026	78	177
Laos—						
Ore ( <i>Sn content</i> ) ..	445	550	514	402	495	366
Thailand—						
Ore ( <i>Sn content</i> ) ..	12,618	13,122	<i>r</i> 14,244	<i>r</i> 15,428	15,666	10,758

(a) Including alloys.

(b) Estimated.

## IMPORTS OF TIN, ETC.\*

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore and concentrates ..	58,268	51,364	50,058	44,883	43,518	44,653
Unwrought (a) ..	2,208	(b) 582	8,361	7,742	8,685	9,152
Ghana—						
Unwrought (a) ..	} 17	10	7	6	7	19
Semi-manufactures (a) ..		112	521	138	164	51
Kenya—						
Unwrought (a) ..	115	99	121	203	43	72
Mauritius—						
Unwrought (a) ..	16	5	4	5	5	2
Semi-manufactures (a) ..	7	11	—	8	17	5
Nigeria—						
Unwrought and semi-manufactures (a) ..	23	18	74	4	237	142
Rhodesia (d)—						
Unwrought and semi-manufactures (a) ..	74	77	48	132	78	76
Tanzania—						
Unwrought (a) ..	79	67	47	58	20	34
Uganda—						
Unwrought (a) ..	39	41	36	39	32	25
Zambia—						
Unwrought and semi-manufactures (a) ..	n.a.	n.a.	n.a.	n.a.	41	53
Canada—						
Unwrought ..	3,768	3,525	2,274	4,193	4,849	4,993
Semi-manufactures ..	9	12	6	6	n.a.	26
Barbados—						
Unwrought (a) ..	6	3	5	3	2	5
Semi-manufactures (a) ..	45	85	169	195	284	227
Jamaica—						
Unwrought (a) ..	28	21	36	28	186	14
Semi-manufactures (a) ..	154	945	428	r 5	27	232
Trinidad and Tobago—						
Unwrought (a) ..	274	72	60	38	58	n.a.
Semi-manufactures (a) ..	673	212	495	731	2,581	n.a.
British Guiana—						
Unwrought (a) ..	15	12	r 14	n.a.	16	15
Semi-manufactures (a) ..	8	9	3	n.a.	3	9
Aden—						
Semi-manufactures (a) ..	1,573	1,296	1,220	n.a.	n.a.	n.a.
Ceylon—						
Unwrought ..	17	17	11	40	30	14
do. alloys ..	38	23	33	22	14	2
Semi-manufactures (a) ..	2,114	1,704	2,480	3,900	4,346	2,211
Cyprus—						
Unwrought (a) ..	14	12	14	9	8	6
Hong Kong—						
Unwrought (a) ..	r 1	r 71	r 178	r 108	14	94
Scrap ..	13	20	44	8	4	3
Semi-manufactures (a) ..	r 20	r 2	r 5	r (b) 3	—	(b) 10
India—						
Unwrought ..	3,921	4,566	4,672	4,403	5,043	4,657
Semi-manufactures (a)(c) ..	14	43	20	172	114	122
Malaya—						
Ore ..	29,704	26,356	33,313	27,964	13,230	9,716
Unwrought (a) ..	139	192	233	176	133	141
Semi-manufactures (a) ..	100	22	42	68	114	43

\*See footnote on page 369 concerning the descriptions "unwrought" tin and "semi-manufactures" used in these tables.

(a) Including alloys.

(c) Years ended March 31 following that stated.

(b) Excess of re-exports.

(d) Figures for years 1960 to 1963 relate to Rhodesia and Nyasaland.

## IMPORTS OF TIN, ETC. (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES (cont.)						
Pakistan—						
Unwrought (a) ..	457	489	461	380	683	n.a.
Sabah—						
Unwrought .. ..	4	174	182	253	7	12
Semi-manufactures ..	155	130	205	11	25	8
Australia —						
Unwrought .. ..	1,708	778	1,778	1,751	1,283	1,582
Semi-manufactures (b) ..	12	23	6	17	20	35
Fiji—						
Semi-manufactures (a)	79	140	153	192	311	308
Sarawak—						
Unwrought and semi-manufactures (a) ..	16	7	3	33	6	36
New Zealand—						
Unwrought (a) ..	362	291	380	} 397	{ (b) 364	} (b) 445
Semi-manufactures (a)	19	30	59		{ (b) 15	
Irish Republic—						
Unwrought (a) ..	67	56	44	49	70	47
OTHER COUNTRIES						
Austria—						
Unwrought (a) ..	848	788	722	782	632	599
Semi-manufactures (a)	17	26	24	36	37	31
Belgium-Luxemburg						
E.U.—						
Ore .. ..	9,955	10,107	9,976	8,630	6,560	5,616
Unwrought .. ..	3,404	764	1,575	2,417	3,023	2,235
do. alloys .. ..	117	164	130	1,556	148	145
Scrap .. ..	10	20	3	45	15	1
Semi-manufactures (a)	136	159	125	117	130	152
Denmark—						
Unwrought .. ..	2,663	3,653	508	576	631	687
do. alloys .. ..	365	72	102	185	548	261
Scrap .. ..	282	451	558	279	124	70
Semi-manufactures (a)	118	109	122	111	108	96
Finland—						
Unwrought (a) ..	609	645	512	330	315	442
France—						
Unwrought .. ..	11,676	10,043	11,209	10,998	11,061	9,973
do. alloys .. ..	206	598	63	51	24	69
Scrap .. ..	47	68	59	87	81	40
Semi-manufactures (a)	18	28	26	26	53	115
Germany (Federal)—						
Ore .. ..	3,993	6,285	7,977	8,365	7,539	7,816
Unwrought (a) ..	29,420	27,913	12,084	11,597	13,608	13,492
Scrap (a) .. ..	115	403	225	358	212	388
Semi-manufactures (a)	37	11	28	21	19	34
Greece—						
Unwrought .. ..	259	273	260	241	265	240
Hungary—						
Unwrought .. ..	940	1,053	962	1,162	991	1,730
Iceland—						
Semi-manufactures (a)	50	35	50	14	12	15
Italy—						
Unwrought .. ..	4,672	4,874	4,711	5,168	4,790	5,101
do. alloys .. ..	440	436	934	718	412	321
Scrap .. ..	—	12	9	9	1	6
Semi-manufactures (a)	66	61	78	120	72	39

(a) Including alloys.

(b) Years ended June 30 of that stated.

## IMPORTS OF TIN, ETC. (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES						
(cont.)						
Netherlands—						
Ore .. .. .	8,351	4,154	7,527	7,804	28,782	24,022
Unwrought .. .. .	2,171	2,148	2,515	2,954	1,227	879
do. alloys .. .. .	10,885	11,966	195	129	275	309
Scrap (a) .. .. .	98	59	60	143	170	330
Semi-manufactures (a)	57	38	81	66	71	64
Norway—						
Unwrought .. .. .	208	196	318	308	322	417
do. alloys .. .. .	283	338	146	r 203	215	179
Semi-manufactures (a)	173	177	213	220	302	296
Poland—						
Unwrought .. .. .	1,270	3,098	2,169	2,429	2,518	2,518
Portugal—						
Unwrought (a) .. .. .	4	4	6	6	10	12
Semi-manufactures (a)	14	14	10	17	26	13
Spain—						
Ore .. .. .	559	2,269	1,041	2,779	3,168	2,397
Unwrought .. .. .	513	206	25	74	29	24
Sweden—						
Unwrought .. .. .	817	727	800	612	707	904
do. alloys .. .. .	280	133	107	164	85	214
Semi-manufactures (a)	118	113	101	114	106	103
Switzerland—						
Unwrought .. .. .	849	1,167	1,091	1,002	727	965
Semi-manufactures (a)	185	111	87	88	90	88
U. S. S. R.—						
Unwrought .. .. .	17,500	11,000	9,700	r 7,700	5,400	5,700
Yugoslavia—						
Unwrought .. .. .	1,156	1,375	897	2,151	1,373	1,224
Semi-manufactures (a)	7	10	21	23	19	13
Algeria—						
Unwrought (a) .. .. .	74	n.a.	n.a.	n.a.	n.a.	n.a.
Semi-manufactures (a)	78	n.a.	n.a.	n.a.	n.a.	n.a.
Egypt—						
Unwrought and scrap ..	332	713	544	442	662	509
Semi-manufactures ..	23	86	4	n.a.	n.a.	n.a.
Malagasy Republic—						
Semi-manufactures (a)	25	11	6	13	6	n.a.
Morocco—						
Unwrought .. .. .	245	261	280	298	250	199
Mozambique—						
Semi-manufactures ..	16	33	42	46	48	41
South Africa—						
Unwrought .. .. .	1,000	670	504	794	562	n.a.
Sudan—						
Unwrought and scrap ..	19	34	35	22	38	22
Semi-manufactures ..	n.a.	n.a.	n.a.	107	258	23
Tunisia—						
Unwrought (a) .. .. .	28	34	10	15	18	28
Semi-manufactures (a)	13	12	10	11	66	10
Mexico—						
Unwrought .. .. .	626	178	191	525	347	n.a.
United States—						
Ore (Sn content) ..	14,026	8,917	5,364	1,473	8,743	3,862
Unwrought .. .. .	39,538	39,898	41,064	43,151	31,582	40,816
do. alloys (b) .. .. .	809	612	2,517	268	1,198	2,622
Scrap .. .. .	1	18	6,570	2,154	976	335

(a) Including alloys.

(b) Including alloyed scrap, dross and residues.

## IMPORTS OF TIN, ETC. (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Argentina—						
Unwrought .. ..	1,696	1,958	954	1,189	1,476	1,319
Brazil—						
Ore .. ..	2,411	2,143	1,843	2,942	923	1,184
Unwrought (a) ..	33	15	1	1	2	1
Colombia—						
Unwrought (a) ..	91	141	126	265	115	97
Semi-manufactures (a)	68	61	66	42	14	3
Chile—						
Ore and concentrates ..	10	<i>n.a.</i>	<i>n.a.</i>	—	<i>n.a.</i>	<i>n.a.</i>
Unwrought .. ..	374	860	580	611	797	<i>n.a.</i>
Peru—						
Unwrought (a) ..	57	79	61	136	100	229
Uruguay—						
Unwrought and semi-manufactures .. ..	78	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Venezuela—						
Unwrought .. ..	123	139	174	191	147	125
Burma—						
Unwrought .. ..	20	29	21	5	44	1
Semi-manufactures (a)	64	51	24	6	—	—
Formosa—						
Unwrought (a) .. ..	145	106	165	185	102	227
Iran (b)—						
Unwrought .. ..	410	322	205	276	216	239
Iraq—						
Unwrought .. ..	16	16	27	123	29	<i>n.a.</i>
Semi-manufactures ..	1,575	68	63	65	32	<i>n.a.</i>
Israel—						
Unwrought .. ..	100	72	93	101	149	120
Japan—						
Ore and concentrates ..	83	763	927	1,509	2,811	762
Unwrought .. ..	11,722	11,969	11,613	14,357	16,026	14,619
Jordan—						
Semi-manufactures ..	<i>n.a.</i>	26	26	33	18	<i>n.a.</i>
Korea (South)—						
Unwrought and semi-manufactures .. ..	137	161	313	215	261	125
Lebanon—						
Unwrought .. ..	4	13	11	10	7	<i>n.a.</i>
Philippine Republic—						
Unwrought (a) .. ..	282	214	469	597	4,530	<i>n.a.</i>
Syria—						
Unwrought and scrap ..	50	93	70	60	84	82
Turkey—						
Unwrought (a) .. ..	1,065	366	884	486	844	905
Semi-manufactures (a)	27	22	353	15	7	3

(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	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Sierra Leone—						
Rutile concentrates ..	—	—	—	(a) 100	—	—
Canada (shipments) (b)—						
Ilmenite .. .. .	863,726	1,032,122	665,851	817,286	1,239,520	1,327,666
Ceylon—						
Ilmenite .. .. .	6,000	10,000	4,153	r(a) 19,857	45,429	50,608
India—						
Ilmenite .. .. .	245,807	171,445	r 135,930	25,553	11,851	29,582
Rutile .. .. .	966	802	r 1,581	1,841	1,841	1,296
Malaya (a)—						
Ilmenite .. .. .	118,085	106,871	101,368	146,718	129,222	121,531
Australia—						
Ilmenite concentrates (c)	106,586	166,400	179,494	201,530	304,284	449,019
Rutile concentrates ..	88,637	101,431	119,195	183,260	182,371	214,951
<b>OTHER COUNTRIES</b>						
Finland—						
Ilmenite concentrates ..	82,338	18,993	85,812	93,000	114,230	105,138
Norway—						
Ilmenite .. .. .	230,842	306,003	247,132	238,429	267,727	277,690
Portugal—						
Ilmenite .. .. .	895	97	67	40	56	30
Spain—						
Ilmenite .. .. .	10,952	29,629	41,014	49,772	43,230	31,679
Egypt—						
Ilmenite .. .. .	11,800	42,389	43,937	532	21	—
Rutile .. .. .	(f) 1,000	(f) 1,000	177	4	—	—
Malagasy Republic—						
Ilmenite .. .. .	2,686	3,250	3,134	3,595	4,800	6,211
Mozambique—						
Ilmenite .. .. .	700	—	—	—	—	—
Senegal—						
Ilmenite .. .. .	21,571	17,220	22,078	11,996	1,299	—
Rutile .. .. .	—	174	724	697	53	—
South Africa—						
Ilmenite .. .. .	80,743	88,402	77,764	27,713	—	—
Rutile .. .. .	3,299	3,110	3,192	1,237	—	—
Mexico—						
Ilmenite .. .. .	—	—	—	139	—	—
United States (e)—						
Ilmenite (d) .. .. .	702,118	653,939	721,183	793,214	893,868	865,584
Rutile .. .. .	7,864	8,076	8,912	10,638	7,198	n.a.

(a) Exports.

(b) Production of titanium dioxide slag (70–72% TiO<sub>2</sub>) at Sorel was as follows (long tons):  
1960—345,213; 1961—413,675; 1962—269,150; 1963—338,679; 1964—486,358; 1965—487,425.

(c) Despatches. Including leucoxene.

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

(e) Production of metal (commercial titanium sponge) was as follows (long tons):  
1960—4,742; 1961—6,006; 1962—6,009; 1963—7,035; 1964—n.a.; 1965—n.a.

(f) United States Bureau of Mines' estimate.

PRODUCTION OF TITANIUM MINERALS (cont.)

Long tons

Producing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Brazil—						
Ilmenite (a) .. ..	<i>n.a.</i>	4,703	5,260	5,691	8,140	9,639
Rutile .. ..	213	218	129	321	223	310
Japan (b)—						
Ilmenite .. ..	5,138	5,883	4,705	4,376	4,779	3,382
<b>WORLD'S TOTAL*—</b>						
Ilmenite .. ..	2,500,000	2,660,000	2,300,000	2,400,000	3,100,000	3,300,000
Rutile .. ..	103,000	115,000	134,000	198,000	192,000	220,000

\*Excluding the U.S.S.R.

(a) Comissao Nacional de Energie Nuclear only.

(b) Production of metal (commercial titanium sponge) was as follows (long tons):  
 1960—2,271; 1961—2,247; 1962—1,489; 1963—1,731; 1964—2,945; 1965—4,764.

## EXPORTS OF TITANIUM MINERALS, ETC.

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ferro-titanium .. ..	276	533	552	1,024	1,076	1,300
Sierra Leone—						
Rutile concentrates ..	—	—	—	100	—	—
Canada—						
Titanium dioxide slag (70% TiO <sub>2</sub> ) .. ..	(a)	(a)	(a)	(a)	(a)	(a)
Ceylon—						
Ilmenite .. ..	1	—	2,750	19,857	36,982	59,588
India—						
Ilmenite .. ..	225,301	123,235	99,649	75,248	26,102	14,857
Malaya—						
Ilmenite .. ..	118,085	106,871	101,368	146,718	129,222	121,531
Australia—						
Rutile .. ..	93,706	99,652	117,291	154,508	193,893	239,454
Ilmenite .. ..	75,319	144,009	155,075	152,040	246,056	360,719
OTHER COUNTRIES						
Belgium-Luxemburg						
E. U.—						
Titanium oxide ..	5,472	5,715	9,897	6,228	1,563	3,223
do, extended ..	3,549	134	34	3,975	10,648	10,322
Finland—						
Ilmenite .. ..	64,131	34,397	37,176	62,305	49,785	82,608
Titanium oxide, extended ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	19,535
France—						
Titanium minerals ..	<i>n.a.</i>	725	175	70	5	1,303
Ferro-titanium .. ..	1,695	1,619	1,064	1,387	1,754	2,414
Titanium oxide .. ..	6,095	6,917	6,664	7,744	10,508	10,557
do, extended .. ..	4,065	10,230	14,293	17,714	23,507	22,507
Germany (Federal)—						
Titanium minerals ..	<i>n.a.</i>	<i>n.a.</i>	87	221	427	253
Titanium oxide .. ..	45,914	48,285	49,813	53,288	54,808	32,232
do, extended .. ..	<i>n.a.</i>	<i>n.a.</i>	85	1,267	14,100	37,554
Italy—						
Titanium oxide .. ..	7,046	7,287	11,519	15,066	13,055	17,339
Netherlands—						
Titanium oxide .. ..	2,369	598	106	2,575	6,090	8,492
do, extended .. ..	53	51	14	51	86	32
Norway—						
Ilmenite .. ..	} 257,091	298,549	230,094	236,711	275,039	319,118
Rutile .. ..						
Titanium oxide, extended						
Titanium oxide, extended	2,711	2,504	1,982	1,650	3,122	5,261
Spain—						
Ilmenite .. ..	<i>n.a.</i>	18,966	24,413	20,432	26,299	18,806
Sweden—						
Titanium minerals ..	14	48	26	25	25	43
Titanium oxide .. ..	5	21	26	18	24	82
do, extended .. ..	1	2	49	66	—	—
Cameroun—						
Rutile .. ..	28	—	10	—	—	<i>n.a.</i>
Senegal—						
Ilmenite .. ..	32,102	21,317	22,599	13,658	2,114	—
South Africa—						
Ilmenite .. ..	99,453	80,494	59,356	14,459	16,194	<i>n.a.</i>
Rutile .. ..	3,688	1,874	289	—	—	—

(a) Information not available. Most of the titanium dioxide slag produced in Canada (figures on page 376) is believed to be exported.



## EXPORTS OF TITANIUM MINERALS, ETC. (cont.)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES (cont.)						
United States—						
Ores and concentrates..	1,125	1,282	1,093	1,082	1,929	1,073
Titanium metal (a) ..	1,164	1,134	1,231	1,567	2,395	2,444
Ferro-titanium .. ..	219	189	116	188	483	n.a.
Titanium oxide and pigments .. ..	30,049	27,771	25,977	23,841	26,213	24,014
Brazil—						
Titanium minerals ..	—	20	—	—	—	—
Japan—						
Titanium sponge metal	1,702	1,620	989	1,189	1,549	3,264
Titanium oxide.. ..	18,803	16,199	21,692	23,576	35,411	37,511

(a) Including alloys and scrap.

## IMPORTS OF TITANIUM MINERALS, ETC.

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom—						
Ilmenite.. ..	338,517	273,354	275,890	226,810	178,969	266,497
Rutile .. ..	10,521	13,842	15,629	18,267	34,879	17,231
Titanium sponge ..	44	(c) 7	31	n.a.	} (d) 1,706	(d) 2,409
Other titanium metal ..	1	9	9	n.a.		
Titanium oxide.. ..	840	1,915	1,880	3,895	2,761	3,194
Canada—						
Titanium oxide ..	} 24,015	23,769	{ 11,268	3,006	1,642	1,397
do, extended ..			{ 11,003	8,321	9,324	8,512
Hong Kong—						
Titanium oxide.. ..	r 2,322	r 1,788	r 2,246	r 2,137	2,237	2,262
India—						
Rutile .. ..	146	332	95	—	336	743
Titanium oxide (b) ..	926	1,477	2,392	2,793	3,002	2,758
Malaya—						
Titanium oxide ..	n.a.	n.a.	312	1,034	1,151	1,416
Australia (a)—						
Titanium oxide.. ..	4,100	7,046	4,644	6,075	3,149	3,384
New Zealand—						
Titanium oxide.. ..	3,477	3,558	3,494	(a) 3,783	(a) 4,286	n.a.
Irish Republic—						
Titanium oxide.. ..	1,378	1,358	1,356	1,594	2,096	2,138
<b>OTHER COUNTRIES</b>						
Austria—						
Ferro-titanium .. ..	289	192	139	162	103	185
Titanium oxide .. ..	3,437	3,605	3,805	4,221	4,815	4,734
Belgium-Luxemburg ..						
E.U.—						
Ferro-titanium .. ..	175	319	182	216	225	251
Titanium oxide .. ..	4,949	4,748	5,425	6,398	6,862	8,274
do, extended .. ..	4,063	950	1,658	1,361	1,659	1,979
Denmark—						
Titanium oxide .. ..	3,839	3,649	4,607	4,709	5,362	5,762
do, extended .. ..	246	204	218	189	172	139
Finland—						
Titanium oxide .. ..	4,785	3,949	2,269	1,072	1,526	1,390
France—						
Titanium minerals ..	71,512	75,933	80,702	95,020	134,711	93,420
Titanium metal .. ..	65	73	175	262	250	292
Titanium oxide.. ..	5,797	6,441	9,661	9,595	12,727	14,488
do, extended .. ..	39	220	40	83	87	492
Germany (Federal)—						
Ilmenite.. ..	280,514	264,845	208,954	220,473	207,808	275,967
Other titanium minerals	18,948	96,282	68,574	58,792	142,654	128,983
Titanium metal .. ..	131	189	274	352	693	758
Titanium oxide.. ..	855	321	592	1,082	1,583	1,783
do, extended .. ..	n.a.	n.a.	2,402	3,486	4,345	7,818
Greece—						
Titanium oxide.. ..	788	890	1,023	1,339	1,580	1,749
Hungary—						
Ferro-titanium .. ..	48	87	88	88	98	n.a.
Iceland—						
Titanium oxide, extended	261	242	215	227	236	77
Italy—						
Titanium minerals ..	51,645	81,323	67,587	97,351	110,456	84,552
Ferro-titanium .. ..	286	507	457	401	525	771
Titanium oxide.. ..	7,079	7,958	10,653	13,478	14,302	15,744
do, extended .. ..	282	198	147	156	139	103

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

(c) Excess of re-exports.

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

## IMPORTS OF TITANIUM MINERALS, ETC. (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Netherlands—						
Ferro-titanium ..	36	43	28	37	40	41
Titanium oxide ..	18,006	16,234	17,054	11,210	2,218	3,898
do, extended ..	1,621	1,413	1,341	9,019	14,839	10,402
Norway—						
Titanium oxide ..	5,380	1,866	820	1,079	—	—
do, extended ..	1	2,647	5,507	5,290	5,183	4,868
Poland—						
Titanium oxide ..	1,398	1,990	<i>n.a.</i>	2,891	3,144	4,338
Portugal—						
Rutile ..	<i>n.a.</i>	255	326	<i>n.a.</i>	200	341
Titanium oxide ..	1,236	1,271	1,430	1,670	1,999	2,157
Sweden—						
Titanium minerals ..	2,533	3,418	4,423	3,612	3,419	3,632
Ferro-titanium ..	1,029	644	264	736	1,167	1,406
Titanium oxide ..	9,269	9,085	11,778	12,524	13,147	9,648
do, extended ..	1,064	911	788	701	—	—
Switzerland—						
Titanium oxide ..	4,550	4,943	6,078	5,503	6,721	6,953
Yugoslavia—						
Rutile ..	1,458	424	680	1,645	1,194	1,119
Titanium oxide ..	852	897	1,382	1,589	3,008	1,522
Algeria—						
Titanium minerals ..	130	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Titanium oxide ..	355	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Morocco—						
Titanium oxide ..	178	236	286	391	331	361
do, extended ..	1	1	<i>n.a.</i>	1	<i>n.a.</i>	191
Tunisia—						
Titanium oxide ..	50	83	87	148	182	251
Costa Rica—						
Titanium oxide ..	<i>n.a.</i>	<i>n.a.</i>	157	141	<i>n.a.</i>	<i>n.a.</i>
Mexico—						
Titanium oxide ..	4,600	207	60	1,537	21	<i>n.a.</i>
United States—						
Ilmenite (a) ..	237,183	174,853	148,602	179,357	143,238	<i>n.a.</i>
Rutile ..	26,102	24,551	32,112	42,626	99,090	135,676
Titanium metal ..	1,992	2,223	825	1,320	1,835	2,798
Ferro-titanium ..	74	163	107	37	<i>n.a.</i>	15
Titanium compounds ..	5,521	8,056	14,800	22,569	36,348	44,364
Argentina—						
Titanium oxide ..	3,634	4,534	4,363	2,887	7,159	4,905
Brazil—						
Titanium oxide ..	3,482	4,278	5,371	6,982	6,464	6,455
Chile—						
Titanium oxide ..	1,190	1,652	1,275	2,471	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Titanium oxide ..	1,499	1,745	2,119	2,742	2,234	271
Peru—						
Titanium oxide ..	497	635	755	721	1,012	71
Venezuela—						
Titanium oxide ..	94	107	194	196	314	330
do, extended ..	1,156	2,086	2,108	2,257	3,207	2,917
Formosa—						
Titanium oxide ..	306	374	526	721	1,363	1,564

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

## IMPORTS OF TITANIUM MINERALS, ETC. (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES (cont.)						
Iran (a)—						
Titanium oxide ..	<i>n.a.</i>	<i>n.a.</i>	97	116	304	414
Japan—						
Ilmenite.. ..	126,586	139,792	120,366	139,649	183,049	208,602
Titanium oxide.. ..	147	2,122	59	65	193	249
Korea (South)—						
Titanium oxide ..	775	999	1,291	967	1,580	1,569
Philippine Republic—						
Titanium oxide.. ..	<i>n.a.</i>	<i>r</i> 1,527	<i>r</i> 2,156	<i>r</i> 1,955	2,259	<i>n.a.</i>
Turkey—						
Titanium oxide ..	238	910	973	1,383	1,396	2,502

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

# TUNGSTEN

## PRODUCTION OF TUNGSTEN ORES AND CONCENTRATES

Long tons

Producing Country and Description	1960-1965						Estimated WO <sub>3</sub> Content					
	1960	1961	1962	1963	1964	1965	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>												
Nigeria—	—	—	—	—	—	2	—	—	—	—	—	1
Wolfram ..	—	—	—	—	—	—	—	—	—	—	—	n.a.
Rhodesia—	9	46	19	3	—	n.a.	6	33	14	2	—	n.a.
Concentrates ..	—	—	—	—	—	—	—	5	—	—	—	—
Tanzania—	—	9	—	—	—	—	—	—	—	—	—	—
Wolfram ..	—	—	—	—	—	—	—	—	—	—	—	—
Uganda—	102	115	11	2	—	41	68	79	7	1	—	28
Wolfram ..	—	—	3	n.a.	n.a.	n.a.	—	—	2	n.a.	n.a.	n.a.
Canada (a)—	—	—	—	—	—	—	—	—	—	—	—	—
Concentrates ..	31	17	15	7	1	6	20	11	10	5	1	4
Hong Kong—	—	—	—	—	—	—	—	—	—	—	—	—
Wolfram ..	—	—	—	—	—	—	—	—	—	—	—	—
India—	3	9	10	4	7	4	2	6	6	3	5	3
Concentrates ..	—	—	—	—	—	—	—	—	—	—	—	—
Malaya—	13	14	9	6	5	14	9	10	6	4	3	9
Wolfram ..	23	17	—	—	(b)	—	18	13	—	—	1	—
Scheelite ..	—	—	—	—	—	—	—	—	—	—	—	—
Australia—	1,131	1,142	492	394	380	488	820	827	351	285	276	354
Wolfram ..	420	1,017	995	958	1,020	1,150	291	709	691	675	720	823
Scheelite ..	—	—	—	—	—	—	—	—	—	—	—	—
New Zealand—	8	5	8	5	5	—	5	3	5	3	3	—
Scheelite ..	—	—	—	—	—	—	—	—	—	—	—	—
TOTAL ..	—	—	—	—	—	—	1,239	1,696	1,092	980	1,010	1,230
<b>OTHER COUNTRIES</b>												
Austria—	185	242	250	192	93	169	130	170	172	132	62	115
Concentrates ..	—	n.a.	—	—	—	—	—	31	—	—	—	—
Finland—	—	—	—	—	—	—	—	—	—	—	—	—
Concentrates ..	—	—	—	—	—	—	—	—	—	—	—	—

(a) Shipments (chiefly scheelite). (b) Exports.

PRODUCTION OF TUNGSTEN ORES AND CONCENTRATES (cont.)

Long tons

Producing Country and Description	Estimated WO <sub>3</sub> Content										
	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	
<b>OTHER COUNTRIES</b> (cont.)											
France— Concentrates .. .. .	597	647	614	—	—	—	403	432	414	—	—
Italy— Concentrates .. .. .	7	2	1	2	1	1	5	1	r	1	1
Portugal— Scheelite .. .. .	62	68	52	} 1,309	1,401	n.a.	40	44	34	} 956	980
Wolfram .. .. .	2,403	2,442	1,947		1,401	n.a.	1,682	1,710	1,444		1,043
Spain— Concentrates .. .. .	336	441	248	46	27	n.a.	215	286	179	32	} 41
Tin-tungsten concentrates	686	775	568	212	8	n.a.	336	352	237	55	
Sweden— Concentrates .. .. .	331	366	334	334	—	—	166	185	158	161	} 6,800
U.S.S.R. (b)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	5,600	5,900	6,200	6,500	
Yugoslavia .. .. .	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	46	5	31	10	} 77
Congo Republic— Concentrates .. .. .	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	541	319	217	119	
Tin-tungsten ore .. .. .	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	—	—	—	—	} 127
Egypt— Concentrates .. .. .	—	n.a.	—	—	—	—	—	49	—	—	
Rwanda and Burundi— Concentrates .. .. .	415	527	136	14	n.a.	n.a.	270	393	88	7	} n.a.
South Africa— Concentrates .. .. .	31	24	22	7	4	4	21	16	14	4	
South West Africa— Scheelite .. .. .	2	6	2	—	—	1	1	4	1	—	} 1
Tin-wolfram concentrates	483	579	575	753	660	588	82	105	91	148	
Mexico .. .. .	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	108	r 102	47	20	} 108
United States— Concentrates (a) .. .. .	6,540	7,362	7,526	5,051	8,254	7,097	3,924	4,417	4,515	3,031	

(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 <sub>3</sub> Content											
	1960	1961	1962	1963	1964	1965	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b> (cont.)												
Argentina— Concentrates .. .. .	r 737	735	513	148	n.a.	128	478	478	r 332	r 99	7	n.a.
Bolivia (a)— Concentrates .. .. .	1,971	n.a.	n.a.	n.a.	n.a.	n.a.	1,270	1,667	1,499	1,347	1,224	1,094
Brazil— Wolfram and scheelite ..	1,390	1,013	1,018	456	505	313	834	608	611	274	303	188
Peru— Concentrates .. .. .	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	(c) 288	(c) 229	(c) 234	(c) 597	(c) 392	391
Burma— Tungsten concentrates ..	348	352	212	88	85	n.a.	210	210	130	50	50	n.a.
Tin-wolfram concentrates	1,104	1,203	1,152	1,279	958	n.a.	440	480	460	510	380	n.a.
China— Concentrates (b) .. .. .	r 22,000	r 22,000	r 22,000	r 22,000	20,000	17,000	13,000	13,000	13,000	13,000	12,000	10,000
Japan— Concentrates .. .. .	822	812	906	640	704	590	580	553	621	459	513	430
Korea— South— Concentrates .. .. .	4,837	6,203	5,706	4,662	4,582	3,777	3,100	4,000	3,700	3,000	3,000	2,000
North— Concentrates (b) .. .. .	5,000	5,000	4,000	4,000	4,000	4,000	3,000	3,000	2,000	2,000	2,000	2,000
Thailand— Concentrates .. .. .	401	467	387	187	391	503	260	303	252	122	254	327
TOTAL .. .. .							37,000	39,000	37,000	r 33,000	33,000	30,000
WORLD'S TOTAL .. .. .							38,000	41,000	38,000	r 34,000	34,000	31,000

- (a) Exports.
- (b) Estimated.
- (c) Recoverable.

## EXPORTS OF TUNGSTEN, ETC.

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom—						
Tungsten ore .. ..	86	35	20	—	45	12
Ferro-tungsten .. ..	1,048	1,445	1,584	1,225	896	1,005
Tungsten metal, etc. ..	43	31	41	53	58	71
Nigeria—						
Tungsten ore .. ..	—	—	—	—	—	—
Rhodesia (d) .. ..						
Tungsten ores .. ..	12	33	26	2	<i>n.a.</i>	26
Tanzania—						
Wolfram ore .. ..	—	9	<i>n.a.</i>	—	—	—
Uganda—						
Wolfram ore .. ..	68	189	—	6	18	64
Hong Kong—						
Tungsten ore .. ..	30	—	—	—	70	10
India—						
Wolfram ore .. ..	—	—	2	—	—	1
Malaya—						
Wolfram .. ..	11	18	4	10	10	48
Scheelite .. ..	22	14	—	—	1	1
Australia (a)—						
Wolfram ores and concentrates .. ..	1,192	1,055	760	452	475	361
( <i>WO<sub>3</sub> content</i> ) .. ..	862	767	555	327	343	269
Scheelite ores and concentrates .. ..	185	816	974	295	1,045	1,725
( <i>WO<sub>3</sub> content</i> ) .. ..	131	567	676	205	727	1,191
New Zealand—						
Scheelite .. ..	15	6	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
<b>OTHER COUNTRIES</b>						
Austria—						
Ore .. ..	268	196	298	207	79	189
Belgium-Luxemburg E.U.—						
Ferro-tungsten .. ..	14	101	118	96	19	10
France—						
Tungsten ore .. ..	359	388	478	106	63	5
Ferro-tungsten .. ..	187	301	274	215	168	260
Tungsten metal, etc. ..	56	68	65	71	171	201
Germany (Federal)—						
Tungsten metal, etc. ..	248	240	217	248	246	260
Netherlands—						
Ore .. ..	61	77	114	187	217	225
Portugal—						
Tungsten ores .. ..	2,380	2,584	2,008	1,133	1,292	1,101
do. residues .. ..	371	31	—	—	87	—
Ferro-tungsten .. ..	149	—	<i>n.a.</i>	<i>n.a.</i>	265	217
Spain—						
Tungsten ore .. ..	616	703	281	37	50	40
Sweden—						
Ore .. ..	67	47	—	18	222	33
Tungsten metal, etc. ..	56	45	26	96	31	33
Ferro-tungsten .. ..	126	20	104	169	71	86
Congo Republic (c)—						
Tungsten ores .. ..	1,123	(b) 600	(b) 100	(b) 100	(b) 300	(b) 500
South Africa—						
Tungsten ore .. ..	—	—	—	4	20	3
South West Africa—						
Tungsten ore .. ..	—	—	3	—	—	—
Tin-tungsten ore .. ..	—	360	530	761	680	511

(a) Years ended June 30 of that stated. (b) Estimated. (c) Including Rwanda and Burundi.

(d) Figures for years 1960 to 1963 relate to Rhodesia and Nyasaland.



## EXPORTS OF TUNGSTEN, ETC. (cont.)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Mexico—						
Tungsten ore and concentrates .. ..	185	445	60	85	14	<i>n.a.</i>
( <i>WO<sub>3</sub> content</i> ) .. ..	109	103	47	20	5	<i>n.a.</i>
United States—						
Ore and concentrates .. ..	565	185	35	44	69	10
Ferro-tungsten .. ..	—	—	5	1	—	<i>n.a.</i>
Tungsten metal, alloys and scrap .. ..	359	113	55	71	228	136
Tungsten powder .. ..	74	50	66	80	100	47
Argentina—						
Tungsten ore .. ..	350	15	2,067	1,026	5	24
Bolivia—						
Tungsten ore ( <i>WO<sub>3</sub> content</i> ) .. ..	1,270	1,667	1,499	1,347	1,224	1,094
Brazil—						
Tungsten ores .. ..	1,545	861	615	785	323	419
Peru—						
Tungsten ore and concentrates ( <i>WO<sub>3</sub> content</i> ) .. ..	232	186	234	172	578	445
Burma—						
Ore and concentrates .. ..	841	686	278	551	406	173
Tin-tungsten ores .. ..	171	264	397	381	521	514
Japan—						
Tungsten metal .. ..	1	18	23	55	15	105
Korea (South)—						
Tungsten ore .. ..	3,936	5,833	4,639	5,026	5,377	4,041
Thailand—						
Tungsten ore .. ..	609	246	190	253	74	253

## IMPORTS OF TUNGSTEN, ETC.

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom—						
Tungsten ores .. ..	5,639	5,132	5,389	4,904	5,008	7,936
Tungsten metal, etc. ..	13	9	6	24	32	33
Ferro-tungsten .. ..	—	12	27	<i>n.a.</i>	180	213
Canada—						
Tungsten ore .. ..	516	224	1,274	288	<i>n.a.</i>	<i>n.a.</i>
<i>W</i> content .. ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	174	160
Ferro-tungsten .. ..	438	231	127	279	77	158
India—						
Tungsten ore .. ..	—	—	2	35	226	98
Malaya—						
Wolfram .. ..	—	—	—	—	—	36
Australia ( <i>b</i> )—						
Tungsten metal .. ..	18	10	10	16	34	31
<b>OTHER COUNTRIES</b>						
Austria—						
Tungsten ore .. ..	3,105	2,934	2,686	2,851	3,228	3,299
Tungsten metal, etc. ..	33	37	35	44	79	33
Ferro-tungsten .. ..	254	244	302	—	226	188
Belgium-Luxemburg						
E.U.—						
Tungsten ore .. ..	29	99	70	11	3	42
Ferro-tungsten .. ..	80	234	132	82	57	14
France—						
Tungsten ore .. ..	1,817	2,298	1,980	2,156	1,538	2,153
Tungsten metal, etc. ..	23	35	36	40	67	64
Germany (Federal)—						
Tungsten ore .. ..	5,124	5,240	4,681	3,913	4,831	6,024
Tungsten metal, etc. ..	264	161	122	79	347	442
Italy—						
Tungsten ore .. ..	176	92	116	78	59	12
Tungsten metal, etc. ..	27	23	34	40	28	34
Ferro-tungsten .. ..	116	311	185	129	107	96
Netherlands—						
Tungsten ore .. ..	341	457	203	20	60	239
Ferro-tungsten .. ..	3	4	21	2	14	4
Sweden—						
Tungsten ore .. ..	972	1,070	1,312	1,277	1,285	1,851
Tungsten metal, etc. ..	62	82	75	68	93	131
Ferro-tungsten .. ..	411	396	260	256	402	693
U.S.S.R. ( <i>a</i> )—						
Tungsten concentrates	18,600	18,000	12,800	11,800	5,900	5,900
Yugoslavia—						
Tungsten metal, etc. ..	7	4	6	16	30	36
Tungsten concentrates ..	115	91	422	15	203	58
Ferro-tungsten .. ..	59	128	60	1	—	36
United States—						
Tungsten ore .. ..	2,722	1,767	3,260	2,413	2,449	3,055
( <i>WO<sub>3</sub></i> content) .. ..	1,983	1,195	2,239	1,366	1,405	1,615
Tungsten metal and carbide .. ..						
( <i>W</i> content) .. ..	71	25	222	37	27	20
Ferro-tungsten .. ..	100	191	294	487	87	172
Tungsten ingots, bars, scrap, etc. .. ..	154	100	119	156	179	32
Japan—						
Tungsten ore .. ..	2,835	4,022	2,162	2,290	2,807	1,477
Tungsten metal .. ..	—	—	7	—	2	2

(a) Imports from China.

(b) Years ended June 30 of that stated.

## URANIUM MINERALS

### PRODUCTION OF URANIUM MINERALS (Metal content)

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Canada (a) .. ..	9,652	7,299	6,382	6,323	5,516	3,364
.. ..	£ 99,132,645	68,929,772	52,701,539	45,332,644	27,716,372	20,691,256
Australia .. ..	(b) 1,150	(b) 1,250	r 1,083	919	280	n.a.
<b>OTHER COUNTRIES</b>						
Finland .. ..	(b) 40	n.a.	n.a.	n.a.	n.a.	n.a.
France .. ..	968	1,168	1,019	1,006	960	982
Italy .. ..	1	—	n.a.	n.a.	n.a.	n.a.
Spain .. ..	n.a.	n.a.	n.a.	n.a.	76	n.a.
Congo Republic ..	900	121	—	—	—	—
Gabon .. ..	—	(b) 300	(b) 350	(b) 450	430	434
Malagasy Republic (c) ..	(b) 60	(b) 50	(b) 85	(b) 80	126	101
South Africa .. ..	4,874	4,149	3,789	3,435	3,375	2,231
.. ..	£ b 54,000,000	b45,000,000	br40,000,000	br37,000,000	b35,000,000	b23,000,000
United States (d)	13,364	13,136	12,879	10,765	8,970	7,906
.. ..	£ 118,000,000	103,000,000	97,000,000	80,400,000	68,000,000	60,000,000
Argentina .. ..	5	4	3	7	28	30
<b>WORLD'S TOTAL (b) ..</b>	<b>40,000</b>	<b>37,000</b>	<b>35,000</b>	<b>31,000</b>	<b>27,000</b>	<b>23,000</b>

(a) Producers' shipments.

(b) Estimated.

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

(d) In addition, the following quantities of uranium were recovered from phosphate rock (long tons): 1960—86; 1961—39; 1962—nil; 1963—nil; 1964—nil; 1965—nil.

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

## EXPORTS OF URANIUM MINERALS, ETC.

Exporting Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
Canada—						
Ores and concentrates £	96,890,046	67,883,901	55,549,230	45,540,191	24,777,024	17,810,184
OTHER COUNTRIES						
Congo Republic—						
Radium products (Ra content) Mgrams ..	27,600	26,900	28,700	18,300	18,100	n.a.
Gabon—						
Concentrates Long tons ..	—	954	1,157	1,228	1,370	1,497
Malagasy Republic—						
Uranothorianite Longtons r	493	r 394	r 535	r 474	610	414
South Africa—						
Concentrates (U <sub>3</sub> O <sub>8</sub> content) Long tons	n.a.	n.a.	4,117	3,696	n.a.	n.a.
£	n.a.	n.a.	36,876,796	33,381,194	29,034,237	n.a.
Prescribed minerals (a) .. .. . £	54,266,382	39,685,813	37,195,326	n.a.	n.a.	n.a.
United States—						
Ores, concentrates and compounds Long tons	9	19	12	5	1	—
Metal and alloys Long tons .. .. .	5	10	—	3	3	2
Radium metal (Ra content) Mgrams.	712	334	328	311	177	n.a.

(a) Mainly uranium but includes some thorium.

## IMPORTS OF URANIUM MINERALS, ETC.

Importing Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
Canada—						
Radium and compounds .. £	111,075	98,158	76,205	197,000	105,823	47,753
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Ore Long tons	3,058	2,443	—	—	—	22
France—						
Ore Long tons	n.a.	120	1,396	1,912	1,880	2,204
Germany (Federal)—						
Ore Long tons	n.a.	n.a.	23	6	23	—
United States—						
Concentrates Long tons (U <sub>3</sub> O <sub>8</sub> content) .. .. .	14,080	11,531	10,429	7,859	4,729	2,366
Radium salts Mgrams.	23,333	12,947	46,962	44,660	n.a.	n.a.

**VANADIUM**  
**PRODUCTION OF VANADIUM ORES**  
*(Metal content)*

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Zambia .. .. .	129	r 95	3	—	—	—
<b>OTHER COUNTRIES</b>						
Finland .. .. .	558	626	562	688	968	(d) 1,000
France (a) .. .. .	100	54	—	56	33	n.a.
South Africa .. .. .	586	1,271	1,244	1,237	1,142	1,355
South West Africa .. .. .	749	1,023	904	1,015	966	1,128
Mexico .. .. .	n.a.	n.a.	n.a.	n.a.	—	1
United States (c) .. .. .	7,185	5,678	6,828	5,399	4,629	5,037
Argentina .. .. .	2	10	8	2	2	n.a.
<b>WORLD'S TOTAL (b) ..</b>	<b>9,300</b>	<b>8,800</b>	<b>r 9,500</b>	<b>8,400</b>	<b>7,700</b>	<b>8,500</b>

(a) By-product vanadium from aluminium plants.

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

(c) Shipments.

(d) United States Bureau of Mines' estimate.

**EXPORTS OF VANADIUM, ETC.**

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom— Ferro-vanadium ..	94	19	5	3	5	117
<b>OTHER COUNTRIES</b>						
Belgium-Luxemburg E.U.— Ferro-vanadium ..	10	95	228	387	n.a.	n.a.
Finland— Oxide .. .. .	1,878	1,981	1,286	1,560	2,187	—
France— Ferro-vanadium ..	336	166	68	10	86	194
Italy— Ferro-vanadium ..	n.a.	n.a.	n.a.	n.a.	39	18
Oxide .. .. .	1	45	—	—	—	—
Sweden— Ferro-vanadium ..	183	141	155	197	139	105
Congo Republic— Ore .. .. .	1,834	n.a.	n.a.	n.a.	n.a.	n.a.
South Africa— Oxide .. .. .	1,034	(b) 2,258	1,463	(c) 728	(d) 3,252	(e) 2,159
South West Africa— Concentrates (V content) (a) ..	600	700	600	900	900	800
United States— Ore, concentrates, etc. (V content) .. .. .	3,294	1,858	902	r 478	1,099	695
Flue dust and other waste (V content) ..	35	82	73	829	97	n.a.
Ferro-vanadium ..	144	107	179	164	92	197

(a) Estimated.

(b) Including 46 tons of ammonium vanadate.

(c) Including 24 tons of ammonium vanadate.

(d) Including 60 tons of ammonium vanadate.

(e) Including 45 tons of ammonium vanadate.

## IMPORTS OF VANADIUM, ETC.

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom (a)—						
Ferro-vanadium ..	—	71	24	59	85	252
Canada—						
Ferro-vanadium ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	232	290
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Ferro-vanadium ..	36	21	37	24	20	6
Oxide .. .. .	55	264	437	501	968	403
France—						
Ore .. .. .	<i>n.a.</i>	—	252	—	—	—
Oxide .. .. .	1,006	1,025	652	218	398	601
Germany (Federal)—						
Ore .. .. .	5	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Hungary—						
Ferro-vanadium ..	59	89	138	109	129	<i>n.a.</i>
Italy—						
Ore .. .. .	—	1	—	—	—	—
Ferro-vanadium ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	179	334
Oxide .. .. .	69	127	39	113	228	203
Netherlands—						
Ferro-vanadium ..	4	11	9	4	6	9
Sweden—						
Ferro-vanadium ..	67	61	37	52	76	156
United States—						
Ore .. .. .	4	—	—	—	99	—
(V content) .. ..	2	—	—	—	18	—
Japan—						
Ore .. .. .	284	981	593	—	—	92

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

**VERMICULITE  
PRODUCTION OF VERMICULITE**

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Kenya .. .. .	253	—	20	91	33	22
Tanzania .. .. .	18	140	64	27	129	96
India .. .. .	210	622	426	666	422	719
<b>OTHER COUNTRIES</b>						
Egypt .. .. .	118	—	279	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
South Africa .. .. .	61,627	63,498	76,370	88,177	99,886	113,313
Sudan .. .. .	—	50	—	—	—	—
United States (a) .. .. .	177,743	184,497	183,703	202,034	202,053	222,636
Argentina .. .. .	<i>r</i> 2,513	<i>r</i> 3,499	2,645	<i>r</i> 2,736	3,599	(b) 3,600
<b>WORLD'S TOTAL*</b> .. .. .	<i>r</i> 242,000	<i>r</i> 252,000	264,000	<i>r</i> 294,000	306,000	341,000

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

(a) Sold or used by producers.

(b) United States Bureau of Mines' estimate.

**EXPORTS OF VERMICULITE**

Long tons

Exporting Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Rhodesia (a) .. .. .	4	1	4	4	22	<i>n.a.</i>
<b>OTHER COUNTRIES</b>						
South Africa .. .. .	56,666	63,455	69,527	80,768	96,620	94,596

(a) Figures for years 1960 to 1963 relate to Rhodesia and Nyasaland.

**IMPORTS OF VERMICULITE**

Long tons

Importing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom (a) .. .. .	14,558	16,608	23,437	25,275	30,805	<i>n.a.</i>
Canada .. .. .	(£153,603)	(£162,116)	(£178,211)	(£189,842)	(£157,530)	(£188,221)
Australia (c) .. .. .	1,198	1,866	1,780	1,711	1,997	2,877
<b>OTHER COUNTRIES</b>						
France (b) .. .. .	7,711	14,480	15,436	13,019	15,806	19,402
Mexico .. .. .	795	706	334	367	607	<i>n.a.</i>
United States (a) .. .. .	11,068	11,529	10,802	12,801	16,444	<i>n.a.</i>
Venezuela .. .. .	162	150	57	280	335	491

(a) Exports from South Africa to country stated.

(b) May include perlite, etc.

(c) Years ended June 30 of that stated.

# ZINC

## PRODUCTION OF ZINC ORE

(Metal content)

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom .. .. .	250	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Zambia (c) .. .. .	29,794	29,861	39,800	48,670	45,974	46,774
Canada (h) .. .. .	363,279	371,432	413,522	<i>r</i> 422,966	611,172	733,960
India .. .. .	5,298	5,037	<i>r</i> 5,446	5,767	5,821	5,233
Australia .. .. .	317,489	311,157	337,532	351,470	344,600	347,613
<b>TOTAL .. .. .</b>	<b>716,110</b>	<b>717,487</b>	<b>796,000</b>	<b>829,000</b>	<b>1,008,000</b>	<b>1,134,000</b>
Irish Republic .. .. .	1,229	164	—	—	—	1,440
<b>OTHER COUNTRIES</b>						
Austria .. .. .	8,741	8,064	8,713	9,025	9,609	9,396
Bulgaria .. .. .	57,800	54,600	61,700	57,000	63,200	<i>n.a.</i>
Finland (b) .. .. .	41,364	45,860	51,347	65,305	61,996	67,920
France .. .. .	16,905	15,432	17,175	17,911	16,575	20,572
Germany (Federal) (i) .. .	84,964	85,883	85,707	91,716	94,318	93,128
Germany (East) (g) .. .	7,000	7,000	<i>r</i> 7,000	<i>r</i> 7,000	7,000	8,000
Greece .. .. .	13,813	17,104	16,747	<i>r</i> 12,148	<i>n.a.</i>	<i>n.a.</i>
Hungary .. .. .	2,100	2,200	2,300	2,600	2,900	(g) 2,900
Italy .. .. .	128,549	134,211	<i>r</i> 128,978	93,468	101,670	108,056
Norway .. .. .	10,174	9,183	11,659	12,842	12,296	12,726
Poland .. .. .	141,800	137,372	142,800	144,800	148,300	149,700
Portugal .. .. .	—	—	11	168	937	2,907
Spain .. .. .	84,750	86,592	77,281	90,284	87,062	37,838
Sweden .. .. .	73,058	78,176	80,560	<i>r</i> 83,645	75,955	77,870
U.S.S.R. (c) (e) .. .. .	340,000	400,000	430,000	440,000	450,000	470,000
Yugoslavia .. .. .	55,491	58,936	60,148	60,298	65,027	65,958
Algeria .. .. .	39,500	41,472	41,000	(e) 34,000	(e) 38,000	36,504
Congo Republic .. .. .	107,457	97,525	93,681	101,910	103,874	117,272
Congo, Republic of .. .. .	—	1,261	823	42	5,408	7,383
Morocco .. .. .	48,392	40,135	33,876	32,516	41,677	50,409
South Africa .. .. .	—	15	—	—	—	2
South West Africa .. .. .	24,000	24,000	25,000	22,900	29,732	25,358
Tunisia .. .. .	3,760	3,340	4,267	4,300	3,200	3,900
Cuba .. .. .	(d) 69	—	—	—	—	—
Greenland .. .. .	9,960	6,714	2,145	—	—	—
Guatemala (b) .. .. .	9,883	7,801	803	1,150	—	1,376
Honduras (d) .. .. .	4,208	6,117	6,293	7,352	6,883	6,059
Mexico .. .. .	258,280	264,725	246,724	236,030	231,882	221,324
United States (b) .. .. .	388,774	414,634	451,331	472,548	513,266	545,672
Argentina .. .. .	<i>r</i> 34,863	<i>r</i> 31,706	<i>r</i> 30,928	<i>r</i> 28,283	22,551	29,526
Bolivia (a) .. .. .	3,963	5,248	3,588	4,574	9,604	13,472
Brazil .. .. .	—	—	—	—	—	5,167
Chile .. .. .	1,035	<i>r</i> 168	<i>r</i> 362	<i>r</i> 473	863	1,093
Colombia (g) .. .. .	300	1,200	300	100	100	50
Ecuador .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	373	232
Peru (b) .. .. .	175,309	171,123	159,678	193,207	232,922	255,295
Burma .. .. .	9,759	7,233	8,068	8,100	7,800	<i>n.a.</i>
China (g) .. .. .	80,000	100,000	100,000	100,000	100,000	100,000
Iran (f) .. .. .	8,400	13,300	7,400	(g) 10,000	14,000	(g) 14,000
Japan .. .. .	154,259	165,602	189,441	194,830	213,037	217,000
Korea (South) .. .. .	40	450	400	1,100	2,500	7,000
Korea (North) (g) .. .. .	80,000	90,000	90,000	100,000	100,000	105,000

- (a) Exports.
- (b) Recoverable.
- (c) Smelter production.
- (d) Imports into the United States.
- (e) Estimated.

- (f) Years ended March 20 of year following that stated.
- (g) United States Bureau of Mines' estimate.
- (h) Refined zinc plus recoverable zinc in ores, etc., exported.
- (i) Excluding zinc in pyrites.



PRODUCTION OF ZINC ORE (cont.)

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b> (cont.)						
Philippine Republic ..	4,899	3,261	4,390	3,832	2,102	2,026
Thailand .. ..	1,043	886	(a) 900	(a) 900	(a) 1,400	(a) 2,000
Turkey .. ..	3,287	8,149	6,072	4,518	7,888	7,000
<b>TOTAL .. ..</b>	<b>2,500,000</b>	<b>2,600,000</b>	<b>2,700,000</b>	<b>2,800,000</b>	<b>2,900,000</b>	<b>3,000,000</b>
<b>WORLD'S TOTAL ..</b>	<b>3,200,000</b>	<b>3,300,000</b>	<b>3,500,000</b>	<b>3,600,000</b>	<b>3,900,000</b>	<b>4,100,000</b>

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

(a) Estimated.

## METAL PRODUCTION OF ZINC

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom ..	74,303	92,884	97,276	99,028	109,282	105,127
Zambia .. ..	29,794	r 30,574	39,800	48,670	45,974	46,774
Canada .. ..	233,007	239,292	250,141	r 253,589	301,543	320,338
Australia .. ..	120,230	138,694	167,928	179,777	185,531	198,988
<b>TOTAL .. ..</b>	<b>457,334</b>	<b>r 501,444</b>	<b>555,145</b>	<b>r 581,064</b>	<b>642,330</b>	<b>671,227</b>
<b>OTHER COUNTRIES</b>						
Austria .. ..	11,339	11,876	11,897	11,673	12,692	12,906
Belgium .. ..	243,653	241,670	202,904	203,070	218,634	236,013
Bulgaria .. ..	16,642	21,772	50,908	55,179	57,700	58,000
France .. ..	150,400	164,000	166,500	170,600	190,900	192,700
Germany (Federal) ..	179,499	182,594	168,458	154,262	153,528	152,277
Germany (East) (a) ..	—	1,000	5,000	10,000	10,000	10,000
Hungary .. ..	700	1,200	1,500	r 1,500	1,400	(d) 1,400
Italy .. ..	78,608	78,256	76,835	72,403	71,497	79,620
Netherlands .. ..	35,510	38,967	36,464	35,197	37,107	40,176
Norway .. ..	43,268	46,009	44,266	45,821	47,593	51,562
Poland .. ..	173,000	179,000	178,000	178,000	184,000	187,000
Spain .. ..	44,254	51,665	61,591	63,708	63,413	53,637
U.S.S.R. (a) .. ..	340,000	400,000	430,000	440,000	450,000	470,000
Yugoslavia .. ..	35,367	36,286	38,683	41,577	43,809	45,337
Congo Republic .. ..	52,515	56,060	55,017	51,893	54,676	56,119
Mexico .. ..	52,070	50,999	56,009	55,854	58,487	57,779
United States (b) (c) ..	713,854	756,067	785,174	796,950	851,861	887,859
Argentina .. ..	15,756	14,211	16,506	19,388	21,876	23,227
Peru .. ..	31,886	31,255	32,236	r 53,834	60,728	61,950
China (d) .. ..	65,000	90,000	90,000	90,000	90,000	90,000
Japan .. ..	172,686	203,734	235,832	r 271,527	303,802	360,000
Korea (North) (d) ..	50,000	60,000	60,000	65,000	70,000	75,000
<b>TOTAL .. ..</b>	<b>2,500,000</b>	<b>2,700,000</b>	<b>2,800,000</b>	<b>2,900,000</b>	<b>3,000,000</b>	<b>3,200,000</b>
<b>WORLD'S TOTAL .. ..</b>	<b>2,900,000</b>	<b>3,200,000</b>	<b>3,300,000</b>	<b>3,500,000</b>	<b>3,700,000</b>	<b>3,900,000</b>

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

(a) Estimated.

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

1960 .. ..	237,339	1963 .. ..	239,513
1961 .. ..	212,471	1964 .. ..	266,423
1962 .. ..	233,944	1965 .. ..	315,504

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

	1960	1961	1962	1963	1964	1965
A—High grade—Special ..	318,933	315,595	350,804	367,191	418,525	428,336
Ordinary .. ..	63,689	79,907	84,094	93,126	100,050	100,403
B—Intermediate grade ..	14,144	13,721	12,590	16,404	17,009	16,058
C and D—Brass special ..	74,560	62,215	67,813	87,670	72,352	77,406
Selected .. ..	65	—	116	3,490	291	276
E—Prime Western .. ..	303,829	333,947	322,328	282,912	307,559	340,040

(d) United States Bureau of Mines' estimate.

PRODUCTION OF ELECTROLYTIC ZINC IN CERTAIN COUNTRIES\*

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Zambia .. .. .	18,800	22,600	26,500	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Canada .. .. .	233,007	239,292	250,141	253,590	301,543	320,338
Australia (Tasmania) ..	120,230	138,694	167,928	179,777	185,531	198,988
<b>OTHER COUNTRIES</b>						
Austria .. .. .	11,339	11,876	11,897	11,673	12,692	12,906
Norway .. .. .	43,268	46,009	44,266	45,821	47,593	51,562
Poland .. .. .	72,600	77,700	80,800	82,200	85,900	88,600
Congo Republic .. ..	52,515	56,060	55,017	51,893	54,676	56,119
United States .. ..	285,515	289,642	316,195	319,726	347,663	364,400
Japan .. .. .	107,096	132,265	154,206	r 171,899	196,240	240,000

\*This production is already included in the Metal table.

PRODUCTION OF ZINC DUST IN CERTAIN COUNTRIES

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom .. ..	14,265	11,862	10,861	13,343	13,581	12,716
Australia .. .. .	2,697	3,131	3,660	4,030	4,495	<i>n.a.</i>
<b>OTHER COUNTRIES</b>						
France .. .. .	3,719	4,885	4,845	4,441	4,055	4,262
Germany (Federal) ..	10,503	8,592	8,641	7,156	8,145	6,658
United States .. ..	27,489	31,046	36,587	36,037	41,053	46,391
Japan .. .. .	5,959	7,591	9,142	9,201	10,183	<i>n.a.</i>

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

Long tons

Producing Country	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
United Kingdom (a) ..	25,350	27,401	24,178	23,007	25,395	24,738
<b>OTHER COUNTRIES</b>						
France .. .. .	61,456	68,605	69,740	61,130	71,550	63,620
United States (b) ..	33,031	35,355	36,346	36,623	38,361	39,932
Japan .. .. .	6,856	6,995	7,157	5,822	6,802	5,643

(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		
1960	.. ..	10,080	1963	.. ..	10,837
1961	.. ..	11,338	1964	.. ..	12,991
1962	.. ..	12,104	1965	.. ..	15,199

EXPORTS OF ZINC\*

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
<b>United Kingdom—</b>						
Ore and concentrates ..	4,976	38	2,192	1,382	1,138	18
Unwrought .. ..	2,942	2,135	7,048	(a) 8,792	(a) 5,852	(a) 1,234
Scrap .. ..	n.a.	n.a.	n.a.	1,080	2,752	270
Semi-manufactures(a) ..	(d) 7,303	(d) 5,998	(d) 7,218	4,338	5,513	6,182
Oxide .. ..	7,911	9,479	9,644	7,036	5,413	3,629
Lithopone, etc. . . .	6,264	6,194	5,447	3,897	2,955	2,376
<b>Nigeria—</b>						
Ore and concentrates ..	346	n.a.	—	—	200	1,875
<b>Zambia (f)—</b>						
Ores and concentrates ..	—	952	1,843	1,518	—	—
Unwrought .. ..	29,435	25,258	41,051	46,546	45,151	44,449
<b>Canada—</b>						
Ore (Zn content) .. ..	151,691	177,966	216,479	190,218	359,912	435,219
Unwrought .. ..	184,903	185,957	188,146	178,573	212,568	235,892
Scrap (a) .. ..	4,761	3,165	4,903	5,109	6,955	8,164
Oxide .. ..	645	497	1,563	—	—	—
<b>Hong Kong—</b>						
Unwrought (a) .. ..	r —	r —	r —	r —	r 100	—
Scrap .. ..	175	2	30	1	—	—
Semi-manufactures (a)	r —	r —	r —	r —	1	—
<b>India (c)—</b>						
Concentrates, etc. . .	9,638	10,190	11,653	9,765	7,364	2,663
Dross, scrap and ashes ..	260	500	140	1,102	2,665	817
Semi-manufactures (a)	349	314	67	184	231	4
Zinc white .. ..	—	—	112	336	455	708
<b>Malaya—</b>						
Unwrought (a) .. ..	4	2	2	2	6	32
Semi-manufactures (a)	274	249	302	308	129	161
<b>Australia (b)—</b>						
Ores and concentrates						
(Zn content) .. ..	136,706	175,231	145,035	153,818	131,690	110,370
Unwrought .. ..	31,904	30,322	73,148	98,730	83,534	84,658
Scrap .. ..	(e) 544	6,024	156	308	66	67
Semi-manufactures ..	1,272	5,003	1,943	801	2,023	2,258
Oxide .. ..	105	79	94	51	4	30
<b>Irish Republic—</b>						
Ores and concentrates	2,891	1,537	—	—	—	—
<b>OTHER COUNTRIES</b>						
<b>Austria—</b>						
Ore .. ..	86	39	21	—	1,562	53
Unwrought (a) .. ..	5,198	5,015	3,631	2,736	4,098	3,627
Scrap .. ..	107	59	84	859	1,001	514
Lithopone .. ..	2,347	2,402	2,034	2,060	2,496	2,463
<b>Belgium-Luxemburg</b>						
<b>E.U.—</b>						
Ore .. ..	44,970	70,357	75,661	50,306	20,704	12,053
Unwrought .. ..	141,351	143,640	110,074	120,874	124,740	127,609
Scrap .. ..	8,803	6,056	4,031	5,743	8,440	7,356
Semi-manufactures (a)	24,570	28,461	27,587	30,773	32,014	33,127
Lithopone, etc. . . .	21,321	22,311	19,686	18,705	18,066	18,125

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

(a) Including alloys.

(d) Including unwrought alloys.

(b) Years ended June 30 of that stated.

(e) Including shavings.

(c) Years ended March 31 following that stated.

(f) Figures for years 1960 to 1963 relate to Rhodesia and Nyasaland.

## EXPORTS OF ZINC (cont.)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
<b>Denmark—</b>						
Unwrought .. ..	2,309	406	129	150	83	185
do. alloys .. ..	2,186	2,471	1,980	904	1,142	485
Scrap .. ..	1,374	887	1,836	1,917	2,195	1,778
Semi-manufactures .. ..	8	5	156	284	9	13
<b>Finland—</b>						
Concentrates .. ..	88,451	85,509	99,870	140,685	144,929	145,296
Unwrought .. ..	193	85	—	238	—	—
<b>France—</b>						
Ore .. ..	23,821	23,719	7,167	491	708	497
Unwrought .. ..	5,648	2,182	4,559	14,020	11,156	17,375
do. alloys .. ..	262	95	183	324	578	364
Semi-manufactures (a) .. ..	2,690	4,061	3,729	4,557	2,715	4,268
Oxide .. ..	5,354	4,824	4,309	4,536	4,016	4,643
Lithopone, etc. .. ..	1,629	1,543	1,082	1,268	1,116	995
<b>Germany (Federal)—</b>						
Ore .. ..	16,659	18,867	12,737	32,574	43,503	45,555
Unwrought (a) .. ..	27,374	31,200	24,991	29,398	21,162	13,217
Scrap (a) .. ..	132	871	2,035	3,180	2,682	4,169
Semi-manufactures (a) .. ..	9,104	7,473	6,633	7,280	7,514	6,823
Zinc-white, zinc-grey .. ..	15,767	10,686	9,820	11,463	10,324	9,902
Lithopone .. ..	38,523	41,778	35,833	33,688	36,347	30,715
<b>Greece—</b>						
Ore and concentrates .. ..	30,631	29,692	30,647	18,766	22,053	23,603
<b>Italy—</b>						
Ore .. ..	58,848	75,147	65,663	39,049	48,485	28,946
Unwrought .. ..	10,429	6,265	2,088	297	1,468	1,401
Semi-manufactures (a) .. ..	501	359	488	304	452	140
Oxide .. ..	207	96	370	681	555	383
Lithopone, etc. .. ..	4,137	4,028	3,524	3,420	2,664	2,166
<b>Netherlands—</b>						
Ore .. ..	1,766	4,719	3,819	3,809	8,032	5,729
Unwrought .. ..	23,461	20,355	20,893	23,064	25,378	22,213
do. alloys .. ..	257	109	47	46	35	122
Scrap (a) .. ..	2,446	4,557	7,681	7,829	9,140	9,969
Semi-manufactures (a) .. ..	1,380	1,281	1,173	1,279	1,332	1,366
Oxide .. ..	<i>n.a.</i>	9,297	8,775	10,134	10,601	9,360
Lithopone, etc. .. ..	<i>n.a.</i>	11,462	10,207	10,224	11,890	10,314
<b>Norway—</b>						
Ore .. ..	14,166	9,534	14,961	14,276	14,377	19,225
Unwrought .. ..	31,900	31,232	31,641	32,335	38,089	35,655
do. alloys .. ..	817	810	1,347	783	1,252	1,533
Scrap .. ..	653	421	707	704	584	798
Semi-manufactures (a) .. ..	42	334	663	r 1,131	1,499	1,449
Zinc-white .. ..	408	773	614	766	299	195
<b>Poland—</b>						
Unwrought and sheets .. ..	96,160	89,510	82,870	r 87,400	96,200	95,600
Unwrought alloys .. ..	6,784	6,797	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Zinc-white .. ..	9,908	5,310	<i>n.a.</i>	<i>n.a.</i>	8,921	9,020
Lithopone .. ..	629	734	<i>n.a.</i>	468	424	<i>n.a.</i>
<b>Portugal—</b>						
Ore .. ..	—	—	—	385	718	8,300
Zinc-white .. ..	21	9	45	72	91	57
<b>Spain—</b>						
Ore .. ..	73,912	29,653	29,123	32,178	23,924	6,479
Unwrought (a) .. ..	19,972	21,707	23,469	23,437	19,057	10,637
<b>Sweden—</b>						
Ore .. ..	137,120	143,140	147,158	146,049	146,258	146,261
Unwrought (a) .. ..	327	146	108	71	286	188
Scrap .. ..	869	1,196	1,738	1,080	1,476	1,457
Zinc-white .. ..	870	998	750	945	467	459
Lithopone .. ..	13	71	73	63	59	31

(a) Including alloys.

## EXPORTS OF ZINC (cont.)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES (cont.)						
Switzerland—						
Unwrought and scrap ..	919	751	1,085	1,111	1,258	1,047
Semi-manufactures (a) ..	35	51	74	37	66	29
Zinc-white .. ..	—	12	1	2	1	11
U.S.S.R.—						
Concentrates .. ..	48,200	38,600	19,100	—	—	—
Unwrought .. ..	89,000	114,400	106,300	81,100	147,400	131,600
Yugoslavia—						
Concentrates .. ..	18,336	18,552	29,563	24,662	31,673	20,093
Unwrought .. ..	8,762	7,830	7,097	5,710	3,063	2,828
Semi-manufactures ..	4,748	5,181	6,791	8,674	10,553	10,040
Oxide .. ..	2,062	1,301	558	750	1,157	1,141
Lithopone .. ..	651	96	400	443	2,028	3,629
Algeria—						
Ore .. ..	64,781	74,900	67,509	57,352	51,596	66,604
Unwrought (a) .. ..	25	n.a.	n.a.	n.a.	n.a.	n.a.
Scrap .. ..	513	n.a.	n.a.	n.a.	n.a.	n.a.
Semi-manufactures (a) ..	31	n.a.	n.a.	n.a.	n.a.	n.a.
Oxide .. ..	119	n.a.	n.a.	n.a.	n.a.	n.a.
Congo Republic (c)—						
Ores and concentrates ..	96,000	90,000	60,000	75,000	85,000	85,000
Unwrought .. ..	50,000	50,000	60,000	45,000	45,000	35,000
Congo, Republic of—						
Ore .. ..	—	n.a.	n.a.	n.a.	n.a.	16,236
Morocco—						
Ore .. ..	69,511	74,101	62,327	65,187	63,352	96,598
South Africa—						
Unwrought .. ..	17	7	12	—	9	n.a.
Fume, dust, shavings, etc. .. ..	90	111	139	84	n.a.	n.a.
South West Africa—						
Ores and concentrates (b) .. ..	24,046	23,052	38,191	38,421	33,617	31,693
Tunisia—						
Ore .. ..	4,190	9,544	6,653	6,970	8,842	2,132
Greenland—						
Ore .. ..	17,567	10,247	10,213	—	—	—
Guatemala—						
Ore .. ..	15,387	13,437	4,288	2,919	831	853
Honduras—						
Ore and concentrates ..	6,565	12,131	9,631	10,561	10,689	19,340
Mexico—						
Ores and concentrates	375,624	395,153	393,102	351,785	270,107	304,300
Unwrought .. ..	29,779	27,324	28,946	28,911	28,710	25,500
Oxide .. ..	2,810	2,456	1,281	2,619	3,201	n.a.
United States—						
Ore and concentrates (b)	12	1,491	122	15	35	n.a.
Unwrought .. ..	67,093	44,691	32,233	30,226	23,675	6,438
Scrap (b) .. ..	10,865	5,268	7,090	1,602	5,757	5,015
Semi-manufactures (a)	5,955	6,224	5,211	5,398	10,924	5,903
Oxide .. ..	1,908	1,949	1,840	2,644	2,174	2,375
Lithopone .. ..	170	543	312	749	1,057	544
Argentina—						
Ore .. ..	26,235	50,141	19,372	46,624	29,383	2,629
Unwrought .. ..	n.a.	—	—	3,134	1,070	146
Bolivia—						
Ores (b) .. ..	3,963	5,248	3,588	4,574	9,604	13,472

(a) Including alloys.

(b) Zn content.

(c) Estimated.

## EXPORTS OF ZINC (cont.)

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Chile—						
Concentrates .. ..	—	—	103	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Peru—						
Ores, etc. ( <i>Zn content</i> )..	131,171	173,423	142,088	145,800	199,557	208,644
Unwrought ( <i>Zn content</i> )	24,106	29,859	36,710	38,179	71,074	54,836
Burma—						
Concentrates .. ..	20,022	12,403	15,462	16,002	15,407	14,310
Iran (a)—						
Ore .. .. .	15,567	21,219	14,970	24,704	73,062	96,244
Japan—						
Unwrought .. ..	5,821	1,329	293	1,121	5,320	54,529
Semi-manufactures ..	50	66	176	784	844	1,054
Oxide .. .. .	24	82	49	157	170	332
Lithopone .. .. .	1	20	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	205
Korea (South)—						
Ore .. .. .	1,083	551	714	3,094	5,878	13,694
Philippine Republic—						
Concentrates .. ..	11	3,051	7,431	11,779	4,811	<i>n.a.</i>
Turkey—						
Ore .. .. .	1,968	11,263	7,261	837	1,896	7,712

(a) Years ended March 20 following that stated.

## IMPORTS OF ZINC\*

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore and concentrates ..	189,112	206,184	188,130	212,113	303,531	229,273
Unwrought ..	185,878	163,070	142,109	(a) 159,171	(a) 187,109	(a) 193,407
Waste and scrap ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	2,713	2,298	1,944
Semi-manufactures (a) ..	(c) 934	(c) 1,777	(c) 1,027	848	601	289
Oxide ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	189	454
Lithopone, etc. . . . .	2,615	2,524	1,867	2,083	2,251	1,089
Malta—						
Semi-manufactures ..	(£8,396)	<i>n.a.</i>	(£7,454)	(£9,161)	(£7,376)	(£11,409)
Ghana—						
Unwrought (a) ..	73	18	47	42	29	977
Semi-manufactures (a) ..		184	19	56	30	52
Kenya—						
Unwrought (a) ..	77	100	204	1,379	1,419	1,206
Semi-manufactures (a) ..	46	9	—	16	8	9
Nigeria—						
Unwrought and semi-manufactures (a) ..	67	35	37	37	950	1,948
Rhodesia (d)—						
Semi-manufactures (a) ..	124	49	86	537	1,085	757
Tanzania—						
Unwrought (a) ..	1	4	5	301	1,407	2,015
Semi-manufactures (a) ..	26	36	26	23	25	19
Uganda—						
Semi-manufactures (a) ..	5	4	16	3	5	14
Canada—						
Ore and concentrates ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	12,063	7,964
Unwrought (a) ..	44	688	634	571	19	15
Semi-manufactures (a) ..	1,550	1,548	1,477	1,749	2,390	2,027
Zinc-white ..	678	1,999	2,443	1,993	1,045	976
Lithopone ..	798	562	—	—	481	512
Barbados—						
Semi-manufactures (a) ..	5	7	11	7	5	9
Jamaica—						
Semi-manufactures (a) ..	17	43	39	91	79	20
Trinidad and Tobago—						
Semi-manufactures (a) ..	25	59	48	32	36	<i>n.a.</i>
Ceylon—						
Unwrought (a) ..	101	91	85	182	85	274
Semi-manufactures (a) ..	57	18	74	35	19	49
Cyprus—						
Semi-manufactures (a) ..	34	40	49	46	55	60
Hong Kong—						
Unwrought (a) ..	r 2,750	r 3,978	r 3,978	r 3,357	6,164	1,240
Scrap ..	456	188	37	77	265	62
Semi-manufactures (a) ..	r 615	r 333	r 380	r 369	401	233
Oxide ..	r 446	r 550	r 777	r 640	716	632
Lithopone ..	r 1,687	r 1,734	r 1,271	r 1,079	1,272	1,097
India (b)—						
Unwrought ..	66,725	64,345	83,847	79,856	65,345	68,430
do. alloys ..	2,888	1,522	2,306	3,023	3,600	7,060
Semi-manufactures (a) ..	1,403	964	1,292	1,140	1,115	3,452
Zinc-white ..	17	5	2	182	102	172
Lithopone ..	379	352	474	501	343	689
Malaya—						
Unwrought (a) ..	16	27	308	619	1,037	3,789
Semi-manufactures (a) ..	1,305	1,253	800	897	284	314
Pakistan—						
Unwrought (a) ..	1,899	3,574	220	2,781	4,960	<i>n.a.</i>
Zinc-white ..	464	413	499	378	15	<i>n.a.</i>
Lithopone ..	1,639	1,364	1,832	1,557	1,369	<i>n.a.</i>

\*See footnote on p. 398 concerning the descriptions "unwrought" zinc and "semi-manufactures" used in these tables.

(a) Including alloys.

(c) Including unwrought alloys.

(b) Years ended March 31 following that stated. (d) Figures for years 1960 to 1963 relate to Rhodesia and Nyasaland.



## IMPORTS OF ZINC (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b> (cont.)						
Sarawak—						
Semi-manufactures (a)	402	432	935	303	126	67
Australia (b)—						
Unwrought and semi-manufactures (a)	911	2,531	1,687	1,839	195	273
Oxides .. .. .	37	—	—	—	—	—
Lithopone .. .. .	1,582	1,531	1,454	1,497	1,073	1,142
New Zealand—						
Unwrought (a)	2,549	2,664	2,580	} (b) 3,048	{ (b) 3,227	} (b) 5,373
Semi-manufactures (a)	345	755	459			
Oxide .. .. .	108	79	101			
Lithopone .. .. .	174	136	133			
				(b) 1	(b) 10	
				(b) 134	(b) 94	
Irish Republic—						
Unwrought (a)	2,163	2,464	2,729	2,733	3,439	3,286
Semi-manufactures (a)	99	80	149	164	312	264
<b>OTHER COUNTRIES</b>						
Austria—						
Ore .. .. .	10,127	9,271	12,921	12,441	13,366	12,421
Unwrought (a)	6,485	7,905	5,913	5,541	8,293	7,286
Semi-manufactures (a)	476	499	443	422	502	548
Zinc-white and zinc-grey .. .. .	629	658	721	483	512	445
Lithopone .. .. .	19	3	96	372	221	289
Belgium-Luxemburg						
E.U.—						
Ore .. .. .	540,052	496,045	440,448	416,148	442,420	501,723
Unwrought .. .. .	2,991	17,436	35,155	24,023	25,719	12,087
Scrap .. .. .	368	133	1,186	405	1,012	1,400
Semi-manufactures (a)	97	143	201	430	958	393
Oxide .. .. .	1,421	1,433	1,799	2,013	1,991	1,774
Lithopone, etc. . . .	1,637	1,608	1,349	1,361	1,646	1,636
Denmark—						
Unwrought .. .. .	11,544	9,733	10,770	8,765	11,231	11,336
do. alloys .. .. .	430	216	238	636	254	183
Scrap .. .. .	142	32	63	67	89	91
Semi-manufactures (a)	5,232	6,257	6,740	5,084	6,449	6,744
Zinc-white .. .. .	1,642	1,623	1,496	1,428	1,467	1,370
Lithopone .. .. .	1,854	1,963	2,020	2,060	1,843	1,810
Finland—						
Unwrought (a)	4,729	6,286	4,642	5,770	3,781	7,769
Scrap .. .. .	5	—	—	—	—	2
Semi-manufactures (a)	540	587	501	302	523	467
Zinc-white .. .. .	725	490	424	403	268	417
Lithopone .. .. .	1,919	1,833	1,786	1,737	1,767	1,517
France—						
Ore .. .. .	285,755	320,391	293,211	276,635	362,325	326,980
Unwrought .. .. .	21,699	31,108	31,881	20,207	21,767	13,636
Scrap .. .. .	6,050	8,474	10,542	13,156	18,585	16,937
Semi-manufactures (a)	5,603	4,755	4,665	6,528	6,918	6,856
Oxide .. .. .	714	1,534	883	1,341	2,219	1,725
Lithopone, etc. . . .	19,217	21,051	20,134	21,385	23,592	19,499
Germany (Federal)—						
Ores .. .. .	158,346	136,247	131,494	122,680	143,539	118,840
Unwrought (a)	136,444	139,343	126,580	133,960	164,635	181,395
Scrap (a) .. .. .	555	409	851	780	535	540
Semi-manufactures (a)	10,012	9,454	12,154	14,795	14,731	20,979
Zinc-white and zinc-grey	2,365	3,254	3,438	3,763	5,292	4,470
Lithopone .. .. .	2,965	3,714	3,160	2,867	2,816	3,042

(a) Including alloys.

(b) Years ended June 30 of that stated.

## IMPORTS OF ZINC (cont.)

Long ton

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Greece—						
Unwrought .. ..	3,754	4,923	5,260	4,905	5,537	5,493
Semi-manufactures (a)	373	286	253	485	179	161
Zinc-white .. ..	232	241	246	325	395	362
Lithopone .. ..	3,207	3,187	3,230	3,606	3,921	3,718
Hungary—						
Crude .. ..	10,663	9,225	9,897	10,777	11,630	13,162
Iceland—						
Unwrought (a) .. ..	18	20	22	12	12	8
Semi-manufactures (a)	43	52	63	61	80	77
Zinc-white .. ..	77	37	57	37	17	17
Italy—						
Ore .. ..	982	2,513	1,075	8,922	1,023	23
Unwrought .. ..	11,299	12,748	26,412	28,952	41,636	33,235
do. alloys .. ..	856	2,040	2,504	1,879	1,162	6,644
Scrap .. ..	4,395	4,550	5,155	7,005	4,499	3,876
Semi-manufactures (a)	177	436	134	3,683	2,961	2,997
Oxide .. ..	705	741	684	2,281	3,526	2,549
Lithopone, etc... ..	1,002	1,221	294	757	1,399	1,225
Netherlands—						
Ore .. ..	70,653	90,282	72,593	75,554	103,926	83,802
Unwrought .. ..	11,584	13,437	14,308	13,490	13,482	15,548
do. alloys .. ..	2,011	2,068	2,194	2,165	2,102	1,758
Scrap .. ..	756	451	317	424	249	1,262
Semi-manufactures (a)	5,567	5,995	4,879	6,458	7,876	6,768
Oxide .. ..	1,557	1,037	1,568	1,768	1,838	2,061
Lithopone, etc... ..	1,976	1,980	1,926	1,986	2,714	2,543
Norway—						
Ore .. ..	83,668	65,874	68,368	83,521	77,485	101,521
Unwrought .. ..	1,151	1,040	2,259	1,720	2,234	5,207
Scrap .. ..	902	923	474	941	774	1,068
Semi-manufactures (a)	1,373	2,374	2,857	r 2,629	2,414	1,946
Zinc-white .. ..	470	453	588	451	568	904
Lithopone, etc... ..	334	329	354	235	242	224
Poland—						
Concentrates .. ..	109,498	145,104	122,000	146,200	164,600	143,824
Portugal—						
Unwrought and scrap ..	3,128	4,866	4,552	5,008	4,979	6,010
Semi-manufactures .. ..	251	192	241	264	296	260
Oxide .. ..	430	460	486	436	299	291
Lithopone .. ..	2,221	2,276	2,234	2,113	2,741	2,724
Spain—						
Unwrought and scrap ..	1	—	—	1	11	1,026
Semi-manufactures (a)	17	19	36	13	29	106
Sweden—						
Unwrought .. ..	32,206	23,844	33,174	25,134	26,059	31,470
do. alloys .. ..	1,765	2,038	2,729	2,442	2,579	3,749
Scrap .. ..	103	50	231	55	61	72
Semi-manufactures (a)	1,283	1,206	1,122	1,281	1,617	1,649
Zinc-white .. ..	4,502	4,389	4,053	3,541	3,355	3,454
Lithopone, etc... ..	5,863	5,603	4,466	4,348	3,927	3,110
Switzerland—						
Unwrought .. ..	23,552	26,594	19,997	20,082	20,342	25,301
Semi-manufactures (a)	3,860	3,505	3,018	3,551	3,125	3,456
Zinc-white .. ..	1,998	1,713	1,811	1,560	1,820	1,651
U.S.S.R.—						
Unwrought .. ..	59,900	69,300	50,800	49,200	70,600	57,900
do. alloys .. ..	6,299	6,299	5,708	5,905	5,807	5,800
Semi-manufactures .. ..	3,937	3,937	4,134	3,937	3,838	3,900

(a) Including alloys.

## IMPORTS OF ZINC (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Yugoslavia—						
Unwrought .. ..	770	—	—	2,090	1,604	2,961
Semi-manufactures .. ..	202	5	7	75	182	140
Oxide .. ..	11	49	19	785	1,451	564
Lithopone .. ..	453	146	49	507	601	506
Algeria—						
Unwrought (a) .. ..	263	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Semi-manufactures (a) .. ..	789	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Oxide .. ..	555	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Lithopone, etc... ..	1,683	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Angola—						
Semi-manufactures (a) .. ..	94	60	93	57	90	114
Oxide .. ..	29	35	49	42	59	44
Egypt—						
Unwrought .. ..	1,688	951	2,088	2,411	1,954	<i>n.a.</i>
Semi-manufactures .. ..	637	511	330	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Zinc-white .. ..	893	950	73	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Lithopone .. ..	5,247	2,691	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Malagasy Republic—						
Semi-manufactures (a) .. ..	99	99	126	87	76	<i>n.a.</i>
Oxide .. ..	4	5	4	—	6	<i>n.a.</i>
Morocco—						
Unwrought .. ..	502	463	613	557	454	576
Semi-manufactures (a) .. ..	149	152	187	284	240	151
Oxide .. ..	449	405	562	560	566	496
Lithopone .. ..	986	1,112	977	1,358	1,217	969
Mozambique—						
Semi-manufactures .. ..	21	22	29	25	9	27
Oxide .. ..	52	72	65	93	88	54
South Africa—						
Unwrought .. ..	28,201	22,596	26,667	33,767	41,385	<i>n.a.</i>
Semi-manufactures .. ..	150	166	255	154	943	<i>n.a.</i>
Lithopone .. ..	1,609	1,214	1,233	1,097	1,458	1,473
Oxide .. ..	264	234	154	270	389	<i>n.a.</i>
Sudan—						
Unwrought .. ..	3	8	8	20	—	—
Semi-manufactures .. ..	25	146	94	195	58	166
Tunisia—						
Unwrought and scrap (a) .. ..	49	84	94	25	—	108
Semi-manufactures (a) .. ..	107	107	67	80	86	93
Oxide .. ..	134	90	157	144	200	205
Mexico—						
Semi-manufactures .. ..	76	41	30	32	45	<i>n.a.</i>
Oxide .. ..	27	35	34	43	45	<i>n.a.</i>
Nicaragua—						
Semi-manufactures .. ..	35	30	273	65	38	721
United States—						
Ore ( <i>Zn content</i> ) .. ..	341,909	319,333	345,822	332,071	278,067	363,540
Unwrought .. ..	107,969	111,774	121,425	118,154	119,748	138,829
Dross and scrap .. ..	1,075	1,259	2,471	2,568	3,371	4,198
Semi-manufactures .. ..	824	1,133	1,986	3,696	5,003	1,684
Oxide .. ..	11,335	9,127	11,509	12,377	7,546	10,264
Lithopone .. ..	55	66	87	142	154	170
Argentina—						
Unwrought .. ..	412	313	84	428	439	2,490
Sheets and plates .. ..	70	219	102	63	71	35
Zinc-white .. ..	1	1	4	2	10	6

(a) Including alloys.

## IMPORTS OF ZINC (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
OTHER COUNTRIES (cont.)						
Brazil—						
Unwrought (a) ..	30,275	32,318	41,567	38,288	30,222	31,075
Semi-manufactures (a) ..	74	38	545	17	344	3
Zinc-white .. ..	455	621	82	120	70	300
Lithopone .. ..	7,477	9,540	9,621	7,708	6,483	5,982
Chile—						
Unwrought .. ..	2,776	4,158	3,524	5,238	n.a.	n.a.
Bars and sheets (a) ..	205	185	108	285	n.a.	n.a.
Zinc-white .. ..	15	2	7	1	n.a.	n.a.
Lithopone .. ..	—	10	—	10	n.a.	n.a.
Colombia—						
Unwrought (a) ..	2,497	721	1,223	4,739	4,301	2,311
Semi-manufactures (a) ..	397	533	403	148	168	95
Zinc-white .. ..	787	1,013	1,209	1,642	1,121	7
Lithopone .. ..	547	506	577	790	489	186
Peru—						
Semi-manufactures (a) ..	146	237	248	284	196	242
Zinc-white .. ..	14	23	25	21	15	72
Lithopone .. ..	350	406	417	337	414	374
Uruguay—						
Unwrought and sheets ..	1,351	n.a.	n.a.	n.a.	n.a.	679
Lithopone .. ..	771	n.a.	n.a.	n.a.	n.a.	285
Zinc-white .. ..	372	n.a.	n.a.	n.a.	n.a.	n.a.
Venezuela—						
Unwrought .. ..	115	191	162	301	2,987	4,006
Oxide .. ..	606	617	766	784	983	813
Lithopone .. ..	348	535	523	400	490	422
Burma—						
Unwrought .. ..	—	223	—	22	318	433
Semi-manufactures (a) ..	365	201	505	327	188	—
Formosa—						
Unwrought (a) ..	1,318	1,915	3,000	3,740	4,132	5,631
Semi-manufactures (a) ..	257	279	263	145	254	539
Lithopone .. ..	1,214	1,210	1,325	1,394	1,238	1,375
Indonesia—						
Unwrought and scrap ..	127	242	520	n.a.	n.a.	n.a.
Semi-manufactures (a) ..	974	1,514				
Zinc-white .. ..	2,141	3,271	n.a.	n.a.	n.a.	n.a.
Iran (b)—						
Unwrought .. ..	34	97	383	157	166	448
Semi-manufactures (a) ..	110	53	446	85	66	75
Oxide .. ..	n.a.	n.a.	294	448	314	488
Lithopone .. ..	n.a.	n.a.	1,459	1,717	1,242	973
Iraq—						
Semi-manufactures ..	42	88	93	15	21	n.a.
Israel—						
Unwrought (a) ..	2,855	2,861	1,896	2,019	2,748	3,484
Semi-manufactures ..	564	268	631	401	291	402
Oxide .. ..	1,100	1,293	522	423	612	592
Lithopone .. ..	1,256	n.a.	n.a.	n.a.	n.a.	n.a.
Japan—						
Ore .. ..	107,790	185,432	142,414	145,176	283,891	374,325
Unwrought .. ..	25,736	47,118	8,007	8,271	67,948	6,938
Scrap .. ..	48	59	64	27	43	11
Semi-manufactures (a) ..	8	87	33	79	21	81
Korea (South)—						
Unwrought .. ..	2,270	4,638	4,938	10,302	4,741	8,791
Semi-manufactures ..	—	—	—	—	—	—
Lithopone .. ..	1,521	1,680	1,428	1,500	1,761	1,558

(a) Including alloys.

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

## IMPORTS OF ZINC (cont.)

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
<b>OTHER COUNTRIES</b>						
<i>(cont.)</i>						
Lebanon—						
Unwrought .. ..	512	710	777	690	655	<i>n.a.</i>
Semi-manufactures .. ..	98	148	146	248	65	<i>n.a.</i>
Oxide and lithopone .. ..	65	77	66	57	105	<i>n.a.</i>
Philippine Republic—						
Unwrought (a) .. ..	11,355	5,520	7,624	7,694	10,199	<i>n.a.</i>
Semi-manufactures (a) .. ..						
Oxide .. ..	891	1,676	1,009	880	676	<i>n.a.</i>
Lithopone .. ..	389	677	159	422	423	<i>n.a.</i>
Syria—						
Oxide and lithopone .. ..	784	953	657	568	869	505
Thailand—						
Unwrought (a) .. ..	2,160	5,589	7,089	9,147	10,341	9,147
Semi-manufactures (a) .. ..	1,821	1,587	1,715	1,594	1,660	1,594
Oxide .. ..	215	236	299	343	392	343
Lithopone .. ..	506	301	707	538	653	538
Turkey—						
Unwrought .. ..	3,248	3,851	3,339	1,920	2,238	5,322
Semi-manufactures (a) .. ..	2,864	1,526	2,500	3,289	2,728	2,388
Oxide .. ..	1,204	1,449	1,803	1,718	2,088	2,426
Lithopone .. ..	1,466	131	140	73	129	5

(a) Including alloys.

## ZIRCONIUM MINERALS

### PRODUCTION OF ZIRCONIUM MINERALS

Long tons

Producing Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Nigeria .. .. .	1,757	743	—	791	153	—
Ceylon (c) .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	(a) 2
Malaya (a) .. .. .	57	56	60	258	145	562
Australia— Zircon concentrates ..	102,362	136,462	133,844	184,830	184,082	224,241
<b>OTHER COUNTRIES</b>						
Egypt .. .. .	341	94	168	39	40	—
Malagasy Republic ..	130	315	348	382	504	634
Senegal .. .. .	10,186	5,303	2,299	3,022	546	—
South Africa .. .. .	6,577	6,792	6,769	2,364	—	—
Brazil (b) .. .. .	5,677	6,612	2,359	350	508	708

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

Production of zirconium sponge metal in the United States was as follows (long tons):

1960—1,271; 1961—1,515; 1962—1,136; 1963—912; 1964—*n.a.*; 1965—*n.a.*

(a) Exports.

(b) Zircon and baddeleyite.

(c) Baddeleyite.

### EXPORTS OF ZIRCONIUM MINERALS, ETC.

Long tons

Exporting Country and Description	1960	1961	1962	1963	1964	1965
<b>COMMONWEALTH COUNTRIES</b>						
Nigeria (a)— Ores and concentrates	674	—	495	876	—	20
Ceylon— Baddeleyite .. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	2
Malaya— Zircon .. .. .	57	56	60	258	145	562
Australia— Zircon concentrates ..	104,630	140,333	131,843	179,697	198,664	216,661
<b>OTHER COUNTRIES</b>						
Germany (Federal)— Ore .. .. .	1,085	591	575	567	1,669	1,252
Senegal— Zircon .. .. .	10,602	5,280	2,054	3,247	—	—
South Africa— Zircon concentrates ..	5,400	5,240	5,950	2,504	71	2
United States— Ores and concentrates	1,234	1,140	1,487	1,266	2,232	1,573
Zirconium metal, etc. ..	475	80	97	131	238	95
Brazil (b) .. .. .	—	53	—	—	—	—

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

(b) Zircon and baddeleyite.

## IMPORTS OF ZIRCONIUM MINERALS, ETC.

Long tons

Importing Country and Description	1960	1961	1962	1963	1964	1965
COMMONWEALTH COUNTRIES						
United Kingdom— Zirconium ores ..	33,712	30,756	32,924	32,356	49,351	42,242
Canada— Zirconium alloys ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	8	10
Zirconium oxide ..	(£8,735)	(£11,462)	(£19,503)	(£20,172)	<i>n.a.</i>	<i>n.a.</i>
Zirconium silicate ..	(£59,402)	(£74,780)	(£73,485)	(£105,702)	<i>n.a.</i>	<i>n.a.</i>
OTHER COUNTRIES						
France— Zirconium ore ..	15,389	16,387	18,641	19,374	22,695	29,349
Germany (Federal)— Zirconium ore ..	18,653	23,018	23,568	25,176	28,661	25,084
Italy— Zirconium ore ..	8,007	6,700	7,420	10,980	13,029	11,603
United States— Zirconium ore ..	30,607	30,183	27,565	46,913	39,655	52,563
Zirconium metal ..	1	1	1	—	24	16

## OTHER MINERALS AND METALS

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

Country and Description	1960	1961	1962	1963	1964	1965
<b>Germanium</b> (in terms of metal)						
PRODUCTION*—						
Italy .. .. Lb.	12,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Congo Republic Lb.	55,340	29,870	17,650	16,060	18,230	32,271
South West Africa Lb.	42,000	34,580	79,505	31,132	—	—
United States (b) Lb.	54,000	40,000	37,000	20,000	15,000	30,000
EXPORTS—						
South-West Africa Lb.	42,000	34,580	79,505	468	11,434	7,023
<b>Indium</b>						
PRODUCTION†—						
Japan Troy ounces	<i>n.a.</i>	<i>n.a.</i>	150,700	150,800	<i>n.a.</i>	<i>n.a.</i>
<b>Nepheline Syenite</b>						
PRODUCTION—						
Canada .. .. Ton	214,854	214,571	227,159	226,786	259,196	303,555
Norway .. .. Ton	—	8,008	19,625	21,653	30,258	40,369
EXPORTS—						
Canada .. .. Ton	172,587	173,748	172,909	181,484	202,653	220,714
IMPORTS—						
United Kingdom £	89,619	145,540	206,721	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
United States .. Ton	175,059	167,379	168,635	175,749	183,656	193,724
<b>Perlite</b>						
PRODUCTION—						
United Kingdom Ton	1,135	823	1,730	3,895	1,765	255
Australia .. Ton	796	394	608	340	489	764
New Zealand .. Ton	348	387	387	564	914	1,124
Greece .. .. Ton	27,400	16,911	29,209	23,286	<i>n.a.</i>	<i>n.a.</i>
Morocco .. .. Ton	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	243
Mexico .. .. Ton	5,935	7,124	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
United States .. Ton	344,000	334,000	364,000	361,000	381,000	448,000
Turkey .. .. Ton	<i>n.a.</i>	200	700	1,000	1,200	<i>n.a.</i>
EXPORTS—						
Greece .. .. Ton	12,204	9,099	16,622	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
IMPORTS—						
United Kingdom £	154,349	180,198	287,414	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
<b>Sodium Carbonate</b> (Natural)						
PRODUCTION—						
Kenya .. .. Ton	124,510	142,430	122,120	101,870	80,380	81,880
United States (a) Ton	722,000	720,000	873,000	999,000	1,138,000	1,334,000
EXPORTS—						
Kenya .. .. Ton	115,208	142,673	111,201	106,873	63,997	73,501
Sudan .. .. Ton	503	102	75	345	149	421
<b>Sodium Sulphate</b> (Natural)						
PRODUCTION—						
Canada .. .. Ton	191,257	224,104	220,243	229,387	297,556	309,000
Spain .. .. Ton	16,864	17,793	20,373	32,936	41,815	<i>n.a.</i>
United States (a) Ton	402,000	416,000	409,000	388,000	513,000	554,000
Chile .. .. Ton	8,401	13,089	<i>n.a.</i>	31,918	33,984	<i>n.a.</i>
Argentina .. Ton	10,517	11,022	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Turkey .. .. Ton	613	2,446	4,699	1,244	2,387	4,885
EXPORTS—						
Canada .. .. Ton	56,992	77,795	66,115	58,346	95,820	103,571

\*Germanium is also produced in the United Kingdom.

†The United States is also a substantial producer of indium but statistics of production are not available.

(a) Sold or used by producers.

(b) From primary material of both domestic and foreign origin. Estimated.



## OTHER MINERALS AND METALS (cont.)

Country and Description	1960	1961	1962	1963	1964	1965
<b>Tellurium</b>						
PRODUCTION—						
Canada .. Lb.	44,682	77,609	58,725	76,842	77,782	69,794
United States (a) Lb.	271,000	205,000	264,000	201,000	145,000	195,000
Peru .. Lb.	59,343	76,300	50,473	r 26,634	46,757	36,045
Japan .. Lb.	13,671	16,487	23,168	13,256	7,573	20,126
EXPORTS—						
Germany (Federal) Lb.	—	1,102	5,952	1,543	441	n.a.
Peru .. Lb.	51,039	74,673	9,202	2,121	22,992	62,131
IMPORTS—						
Germany (Federal) Lb.	16,100	22,900	22,000	8,800	14,100	n.a.
<b>Wollastonite</b>						
PRODUCTION—						
New Zealand .. Ton	—	—	6	9	14	54
Finland .. Ton	2,342	2,605	2,382	2,091	n.a.	n.a.
South West Africa Ton	—	—	—	—	116	205
Sudan .. Ton	20	—	—	—	—	—
Mexico (b) .. Ton	5,000	5,000	5,000	5,000	5,000	5,000
United States—						
Industrial ..	(c)	(c)	(c)	(c)	(c)	(c)
Ornamental .. Ton	n.a.	6,853	2,400	(b) 2,143	3,500	n.a.

(a) Including tellurium content of compounds.

(b) Estimated.

(c) In the range 30,000 to 40,000 tons per annum.

# MINERALS PRODUCED IN COUNTRIES OF THE COMMONWEALTH AND STERLING AREA

*The following list comprises those minerals produced in Commonwealth and Sterling Area countries during the period 1960-1965 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;"><b>Abu Dhabi</b> (Protected State)</p> <p>Petroleum</p> <p style="text-align: center;"><b>Aden</b></p> <p>Salt</p> <p style="text-align: center;"><b>Australia</b></p> <p>Antimony Asbestos Barytes Bauxite Bentonite Beryl Cadmium China Clay Chrome Coal Cobalt Copper Diamonds Diatomaceous earth Feldspar, China stone Fluorspar Fuller's earth Garnet Gold Gypsum Iron Lead Lithium Magnesite, Dolomite Manganese Mica Molybdenum Monazite Natural gas Perlite Petroleum Phosphate Platinum Pyrites Salt Selenium Sillimanite, Andalusite Silver Sulphur Talc, Pyrophyllite Tantalite, Columbite Tin Titanium Tungsten Uranium Zinc Zircon</p> <p style="text-align: center;"><b>Bahamas</b></p> <p>Salt</p>	<p style="text-align: center;"><b>Bahrein</b> (Protected State)</p> <p>Petroleum</p> <p style="text-align: center;"><b>Barbados</b></p> <p>Natural gas Petroleum</p> <p style="text-align: center;"><b>Basutoland</b></p> <p>Diamonds</p> <p style="text-align: center;"><b>Bechuanaland</b></p> <p>Asbestos Gold Manganese Silver</p> <p style="text-align: center;"><b>British Guiana</b></p> <p>Bauxite Diamonds Gold Manganese</p> <p style="text-align: center;"><b>Brunei</b></p> <p>Natural gas Natural gasoline Petroleum</p> <p style="text-align: center;"><b>Canada</b></p> <p>Arsenic Asbestos Barytes Bentonite Bismuth Cadmium Coal Cobalt Copper Diatomaceous earth Feldspar Fluorspar Garnet Gold Graphite Gypsum, Anhydrite Indium Iron Lead Lithium Magnesite, Dolomite Mercury Mica Molybdenum Natural gas Natural gasoline Nepheline syenite Nickel Niobium</p>	<p style="text-align: center;"><b>Canada—(cont.)</b></p> <p>Petroleum Platinum Potash salts Pyrites Salt Selenium Silver Sodium sulphate Sulphur Talc Tantalite, Columbite Tellurium Thorium Tin Titanium Tungsten Uranium Zinc</p> <p style="text-align: center;"><b>Ceylon</b></p> <p>China clay Feldspar Graphite Ilmenite Magnesite, Dolomite Monazite Salt Zircon</p> <p style="text-align: center;"><b>Christmas Island</b></p> <p>Phosphate</p> <p style="text-align: center;"><b>Cyprus</b></p> <p>Asbestos Bentonite Chrome Cobalt Copper Gypsum Pyrites Salt</p> <p style="text-align: center;"><b>Fiji</b></p> <p>Gold Iron Manganese Silver</p> <p style="text-align: center;"><b>Ghana</b></p> <p>Bauxite Diamonds Gold Manganese Salt Silver</p>
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Minerals produced in countries of the Commonwealth and Sterling Area (cont.)

**Hong Kong**

China clay  
Feldspar  
Graphite  
Iron  
Tungsten

**India**

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

**Jamaica**

Bauxite  
Gypsum  
Phosphate

**Kenya**

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

**Kenya—(cont.)**

Salt  
Silver  
Sodium carbonate  
Vermiculite

**Kuwait**

(Protected State)

Petroleum

**Malaya**

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

**Malta**

Salt

**Mauritius**

Salt

**Nauru Island**

Phosphate

**New Guinea**

Gold  
Platinum  
Silver

**New Hebrides**

Manganese

**New Zealand**

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

**Nigeria**

China clay  
Coal  
Gold  
Lead  
Molybdenum  
Monazite, Thorite  
Natural gas

**Nigeria—(cont.)**

Petroleum  
Salt  
Tantalite, Columbite  
Tin  
Tungsten  
Zircon

**Ocean Island**

Phosphate

**Pakistan**

Antimony  
Barytes  
Bauxite  
Bentonite  
China clay  
Chrome  
Coal  
Dolomite  
Feldspar  
Fuller's earth  
Gypsum  
Iron  
Magnesite  
Manganese  
Mica  
Natural gas  
Petroleum  
Salt  
Strontium  
Talc

**Papua**

Gold  
Manganese

**Qatar**

(Protected State)

Petroleum

**Rhodesia**

Antimony  
Arsenic  
Asbestos  
Barytes  
Bauxite  
Beryl  
China clay  
Chrome  
Coal  
Copper  
Corundum  
Fluorspar  
Gold  
Iron  
Kyanite  
Lead  
Lithium  
Magnesite, Dolomite  
Manganese  
Mica  
Nickel  
Phosphate  
Pyrites

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

**Rhodesia—(cont.)**

Silver  
Talc  
Tantalite  
Tin  
Tripoli  
Tungsten

**St. Kitts**

Salt

**Sarawak**

Antimony  
Bauxite  
Gold  
Petroleum  
Phosphate

**Seychelles**

Phosphate

**Sierra Leone**

Bauxite  
Chrome  
Diamonds  
Gold  
Iron  
Titanium

**Swaziland**

Asbestos  
Barytes  
Beryl  
China clay  
Coal  
Gold  
Iron  
Pyrophyllite  
Silver  
Tin

**Tanzania**

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

**Trinidad**

Gypsum  
Natural asphalt  
Natural gas

**Trinidad—(cont.)**

Natural gasoline  
Petroleum  
Sulphur

**Turks and Caicos Islands**

Salt

**Uganda**

Beryl  
Bismuth  
Cobalt  
Copper  
Gold  
Lithium  
Mica  
Phosphate  
Salt  
Silver  
Tantalite, Columbite  
Tin  
Tungsten

**United Kingdom**

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

**Virgin Islands**

Salt

**Zambia**

Beryl  
Cadmium  
Cobalt  
Copper  
Gold  
Lead  
Manganese  
Mica  
Salt

**Zambia—(cont.)**

Selenium  
Silver  
Tantalite, Columbite  
Tin  
Vanadium  
Zinc

**Burma**

Antimony  
Barytes  
Bismuth  
Coal  
Copper  
Gold  
Gypsum  
Iron  
Lead  
Nickel  
Petroleum  
Salt  
Silver  
Talc  
Tin  
Tungsten  
Zinc

**Iceland**

Pumice  
Diatomaceous earth

**Irish Republic**

Barytes  
Coal  
Copper  
Gypsum  
Lead  
Pyrites  
Zinc

**Jordan**

Gypsum  
Phosphate  
Salt

**Libya**

Gypsum  
Petroleum  
Salt

**South Africa**

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

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

**South Africa—(cont.)**

Feldspar  
 Fluorspar  
 Fuller's earth  
 Gadolinite  
 Garnet  
 Gold  
 Graphite  
 Gypsum  
 Iron  
 Lead  
 Lithium  
 Magnesite  
 Manganese  
 Mica  
 Monazite  
 Nickel  
 Oil-shale  
 Phosphate  
 Platinum, Osmiridium  
 Pyrites  
 Salt

**South Africa—(cont.)**

Silver  
 Sillimanite, Andalusite  
 Sulphur  
 Talc  
 Tantalite  
 Tin  
 Titanium  
 Tungsten  
 Uranium  
 Vanadium  
 Vermiculite  
 Zinc  
 Zircon

**South West Africa**

Beryl  
 Bismuth  
 Cadmium  
 Copper  
 Diamonds  
 Feldspar

**South West Africa**

—(cont.)

Fluorspar  
 Germanium  
 Gold  
 Graphite  
 Iron  
 Lead  
 Lithium  
 Manganese  
 Mica  
 Phosphate  
 Salt  
 Sillimanite, Kyanite  
 Silver  
 Tantalite, Columbite  
 Tin  
 Tungsten  
 Vanadium  
 Wollastonite  
 Zinc

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