

INSTITUTE OF GEOLOGICAL SCIENCES
MINERAL RESOURCES DIVISION

STATISTICAL
SUMMARY OF THE
MINERAL INDUSTRY

WORLD PRODUCTION,
EXPORTS AND IMPORTS

1962-1967



LONDON
HER MAJESTY'S STATIONERY OFFICE

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NATURAL ENVIRONMENT RESEARCH COUNCIL
INSTITUTE OF GEOLOGICAL SCIENCES
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PREFACE

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

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

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CONTENTS

	PAGE		PAGE
<i>Explanatory Notes</i>	iv	Mercury	209
Abrasives	I	Mica	213
Aluminium (including Bauxite and Cryolite)	11	Molybdenum	220
Antimony	25	Nickel	223
Arsenic	29	Nitrogen Compounds ..	229
Asbestos	33	Petroleum and Allied Products	242
Barium Minerals	42	Phosphates	292
Bentonite	48	Platinum	307
Beryl	50	Potash Minerals	312
Bismuth	52	Pyrites	322
Borates	55	Rare Earth and Thorium	
Bromine	60	Minerals	326
Cadmium	63	Salt	329
Cement	66	Selenium	337
China Clay	69	Sillimanite, etc.	339
Chrome Ore and Chromium ..	72	Silver	341
Coal, Coke and By-Products ..	77	Strontium Minerals	347
Cobalt	100	Sulphur	348
Copper	103	Talc	354
Diamonds	117	Tantalum and Niobium Minerals	357
Diatomaceous Earth	123	Tin	360
Feldspar	126	Titanium Minerals	369
Fluorspar	128	Tungsten	375
Fuller's Earth	130	Uranium Minerals	381
Gold	131	Vanadium	383
Graphite	137	Vermiculite	385
Gypsum	141	Zinc	386
Iodine	147	Zirconium Minerals	400
Iron and Steel	149	Other Minerals and Metals ..	402
Lead	177	<i>Minerals Produced in Countries of</i>	
Lithium Minerals	190	<i>the Commonwealth and Sterling</i>	
Magnesite and Dolomite	192	<i>Area</i>	404
Manganese	202	<i>Index</i>	408

EXPLANATORY NOTES

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

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

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

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

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

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

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

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

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

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

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

The factors used for converting volumes of liquids into long tons are given in footnotes to the tables relating to Coal By-Products (p. 87) and Petroleum and Allied Products (pp. 242, 256).

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	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Kenya—						
Pumice (b)	1,110	280	1,415	1,023	780	120
Corundum	—	—	—	—	—	25
Rhodesia—						
Corundum	2,989	5,304	2,563	(a) 3,208	(c) 3,500	(c) 4,500
Tanzania—						
Corundum (a)	—	400	391	—	100	38
Canada—						
Garnet	45	n.a.	n.a.	n.a.	n.a.	n.a.
Grindstones	9	9	—	4	4	9
Dominica—						
Pumice (b)	n.a.	n.a.	1,477	1,965	n.a.	n.a.
India—						
Corundum	296	648	531	473	379	301
Garnet	(e) 403	395	290	218	185	279
Australia—						
Garnet	53	91	80	130	239	175
New Zealand—						
Pumice (b)	32,522	16,606	20,518	107,863	18,039	16,144
OTHER COUNTRIES						
Belgium—						
Grindstones	56	59	48	43	44	37
France—						
Pumice (b)	1,675	758	902	697	793	n.a.
Millstones	1,210	1,208	1,085	1,173	1,512	1,476
Sharpening stones	126	39	11	10	12	8
Germany (Federal)—						
Pumice (d)	5,617,000	6,289,000	5,729,000	5,016,000	5,305,000	4,071,000
Tripoli	25	25	25	25	8	—
Greece—						
Emery	7,500	7,470	7,480	7,500	7,480	7,480
Pumice	78,516	99,873	225,482	r 323,247	327,115	200,000
Pumicite	185,065	234,611	308,701	400,000	(c) 345,000	(c) 491,000
Iceland—						
Pumice (b)	(c) 6,500	12,303	9,842	(c) 10,000	(c) 10,000	(c) 10,000
Italy—						
Pumice	455,800	921,000	947,600	804,198	n.a.	n.a.
Sharpening stones	157	157	—	—	n.a.	n.a.
Whetstones	455	102	59	64	n.a.	n.a.
Spain—						
Garnet	164	70	—	n.a.	n.a.	n.a.
Pumice	—	—	—	50,540	n.a.	n.a.
Sweden—						
Grindstones and whetstones	623	737	1,945	948	548	n.a.
Canary Islands—						
Pumice (b)	1,713	1,505	2,257	4,905	n.a.	n.a.
Malagasy Republic—						
Garnet	98	2	(a) 52	(a) 103	(a) 6	(a) 28
South Africa—						
Corundum	312	71	53	307	357	313

*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	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
United States (c)—						
Emery	3,854	6,011	8,227	9,571	9,912	<i>n.a.</i>
Garnet	12,648	13,059	14,396	17,259	19,600	18,298
Pumice and pumicite						
(a) (b)	2,028,000	2,337,503	2,478,993	3,010,000	2,873,000	3,102,054
Tripoli	55,118	59,496	57,690	63,516	59,074	63,379
Argentina—						
Garnet	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	59	84	<i>n.a.</i>
Turkey—						
Emery	3,354	7,372	12,201	12,374	29,005	24,088

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

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

	1962	1963	1964	1965	1966	1967
Silicon carbide ..	58,798	69,974	76,279	87,987	<i>n.a.</i>	<i>n.a.</i>
Fused alumina ..	144,508	132,247	132,446	151,151	<i>n.a.</i>	<i>n.a.</i>

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

	1962	1963	1964	1965	1966	1967
Silicon carbide ..	103,318	97,635	117,772	123,466	142,000	127,000
Aluminium oxide ..	162,432	142,914	153,091	174,532	218,000	185,000
Metallic abrasives ..	112,296	119,114	139,109	170,131	183,000	182,000

(United States plants only)

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

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

(b) Including volcanic cinders used principally for ballast which amounted to 1,551,417 tons in 1962; 1,399,844 tons in 1963; 1,438,476 tons in 1964, 2,579,000 tons in 1965, 2,383,000 tons in 1966 and 2,408,851 tons in 1967.

(c) Sold or used by producers.

EXPORTS OF ABRASIVES*

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Abrasives, natural ..	2,045	3,975	4,586	3,036	3,617	4,701
Corundum artificial ..	<i>n.a.</i>	2,687	4,260	5,023	5,345	4,953
Grinding wheels, etc. ..	5,835	6,902	7,233	7,491	7,005	5,684
Other manufactured abrasives ..	559					
Rhodesia (d)—						
Corundum	2,926	4,660	2,972	3,208	<i>n.a.</i>	<i>n.a.</i>
Tanzania—						
Corundum	—	400	391	—	100	38
Canada—						
Natural abrasives, including diatomaceous earth	—	110	172	128	27	55
Artificial abrasives, crude	203,246	201,219	211,379	239,454	264,034	227,097
Artificial abrasive wheels, etc.	(£93,721)	(£48,105)	(£104,770)	(£57,345)	(£53,068)	(£42,196)
Grindstones						
Hong Kong—						
Grinding and polishing wheels, etc.	34	27	58	41	72	48
India (c)—						
Grindstones, etc. ..	1,792	2,089	2,887	703	250	175
New Zealand—						
Pumice (a)	456	667	(e) 851	(e) 933	(e) 822	(e) 735
OTHER COUNTRIES						
Austria—						
Natural abrasives ..	3	47	8	—	—	—
Millstones and grindstones	13	5	9	4	6	6
Corundum, artificial ..	9,380	12,693	10,772	14,750	17,279	19,541
Belgium-Luxemburg						
E.U.—						
Natural abrasives ..	165	272	8	4	303	484
Carborundum	82	202	253	199	184	186
Corundum, artificial ..	28	82	27	145	224	120
Millstones, grindstones, etc. (b)	983	1,044	1,150	1,218	1,473	1,581
Denmark—						
Emery	2	—	2	—	2	2
Millstones and grindstones	7	9	54	37	34	20
Finland—						
Grindstones, etc. (b) ..	<i>n.a.</i>	105	99	46	48	75
France—						
Corundum and emery ..	84	58	103	49	71	43
Pumice	33	31	52	32	133	296
Other natural abrasives ..	541	459	630	292	392	487
Millstones and grindstones	617	1,622	1,977	2,007	2,345	2,165
Whetstones	15					
Carborundum	2,066	2,445	2,599	1,951	1,589	971
Corundum, artificial ..	12,204	12,172	9,784	10,011	13,639	12,160
Germany (Federal)—						
Emery and corundum ..	453	189	161	243	174	17
Pumice (f)	622,932	694,496	628,613	583,193	554,048	636,054

*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 1962 and 1963 relate to Rhodesia and Nyasaland.

(b) Including artificial.

(e) Year ended June 30 of that stated.

(f) Including pumice and pumicite for construction purposes.

EXPORTS OF ABRASIVES (cont.)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
(cont.)						
Germany (Federal)						
(cont.)—						
Other natural abrasives	9	3	2	—	—	—
Millstones, grindstones, etc. (a)	1,910	1,751	2,113	5,096	6,421	7,985
Carborundum	7,712	6,614	6,083	6,926	7,196	7,306
Corundum, artificial ..	18,207	17,030	19,021	21,031	24,443	26,868
Greece—						
Emery	6,772	5,423	4,649	5,632	5,170	5,460
Pumice	68,067	43,142	121,092	197,849	184,528	113,334
Italy—						
Pumice	133,306	338,395	316,665	146,381	314,415	270,090
Emery and corundum	24	66	22	306	50	88
Other natural abrasives	100	487	113	891	979	2,179
Millstones	1,399	1,237	1,571	2,201	2,774	3,228
Grindstones						
Whetstones						
Carborundum	6,985	7,656	8,236	7,692	8,139	9,574
Corundum, artificial ..	586	441	629	2,172	3,083	3,822
Netherlands—						
Natural abrasives ..	4,205	4,248	9,394	4,713	4,801	4,862
Millstones, grindstones, etc.	338	363	381	557	716	805
Corundum, artificial ..	35	36	13	25	19	30
Norway—						
Natural abrasives ..	15	—	76	—	—	—
Carborundum	18,114	15,411	22,453	27,282	35,071	35,973
Sweden—						
Emery	5	1	11	15	—	—
Other natural abrasives	36	42	41	44	35	31
Carborundum	732	446	216	831	284	130
Corundum, artificial ..	829	677	704	890	1,299	1,337
Millstones, grindstones, etc.	79	486	1,448	227	86	48
Switzerland—						
Carborundum, emery, etc., crude	1,924	2,842	3,168	3,666	3,932	3,414
do. do. ground						
Yugoslavia—						
Natural abrasives ..	2,949	2,009	2,534	48	n.a.	n.a.
Millstones, grindstones, etc.	73	116	190	950	1,044	5,804
Carborundum	8	101	49	34	79	—
Corundum, artificial ..	n.a.	n.a.	n.a.	3,104	4,078	3,200
Malagasy Republic—						
Garnet	76	1	52	103	6	28
South Africa—						
Corundum	517	71	53	—	—	—
Other natural abrasives	n.a.	n.a.	87	8	92	—
Grinding wheels, etc. ..	n.a.	n.a.	212	227	171	196
Mexico—						
Pumice, etc.	1,581	6,378	7,051	7,067	6,619	3,596
United States—						
Corundum	98	67	138	(b)	(b)	(b)
Emery powder	731	559	607	(b)	(b)	(b)
Grindstones	114	37	160	1,932	1,960	1,620
Whetstones, etc. ..	77	62	332	210	273	410
Pulp stones	1,264	1,269	1,463	1,461	1,951	1,838
Other natural abrasives	9,563	11,362	12,492	12,010	14,893	12,806
Aluminium oxide, fused	12,078	11,729	16,706	15,405	16,282	17,468
Carborundum	9,130	8,762	10,013	(c) 11,392	7,994	5,770

(a) Including artificial.

(b) Included with "other natural abrasives".

(c) May include other crude artificial abrasives.

EXPORTS OF ABRASIVES (cont.)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
United States <i>(cont.)</i> —						
Unfused alumina ..	133	168	403	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Other crude artificial abrasives	160	93	155	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Emery	237	284	361	414	622	637
Other natural abrasives ..	231	58	96	74	104	564
Grindstones, etc. ..	189	363	788	972	1,234	1,376
Artificial abrasives ..	1,214	1,063	817	1,529	2,489	2,706
Turkey—						
Emery	8,570	8,220	9,071	16,392	26,414	20,328

IMPORTS OF ABRASIVES*

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Emery	2,650	11,998	14,153	13,789	21,382	55,274
Garnet concentrates—						
Unground						
Ground	8,308					
Other natural abrasives						
Corundum, artificial ..	12,428	14,031	15,151	17,409	12,411	18,140
Carborundum	13,744	11,508	13,763	16,918	12,291	12,780
Grinding wheels of hard abrasives	691	531	917	1,018	1,503	1,218
Grindstones and whetstones etc.						
Malta—						
Pumice	—	431	7	(£1,089)	(£3,134)	(£2,673)
Grinding and polishing wheels	(£2,662)	(£3,442)	(£5,924)	(£4,771)	(£7,507)	(£8,331)
Ghana—						
Grinding and polishing wheels	132	60	57	62	438	103
Kenya and Uganda—						
Grindstones, etc. ..	45	50	69	54	45	53
Mauritius—						
Grindstones, etc. ..	42	43	30	51	39	30
Nigeria—						
Natural abrasives ..	n.a.	n.a.	183	119	334	180
Grinding stones, etc. ..	n.a.	135	238	290	203	129
Rhodesia (a)—						
Grinding and polishing wheels and stones	184	201	187	179	n.a.	n.a.
Tanzania—						
Grindstones, etc. ..	12	13	12	22	24	18
Zambia—						
Grinding and polishing wheels and stones	n.a.	n.a.	63	96	116	107
Canada—						
Pumice, etc.	n.a.	n.a.	9,711	9,404	12,881	7,890
Emery, etc.	(£79,545)	(£64,685)	(£53,010)	(£58,680)	(£73,300)	(£51,985)
Other natural abrasives	(£68,553)	(£89,933)	n.a.	n.a.	n.a.	n.a.
Artificial abrasives, ground	(£963,746)	(£982,982)	(£1,373,256)	(£1,402,499)	(£1,564,511)	(£1,483,783)
Artificial abrasive manufactures	(£190,086)	(£198,462)				
Grindstones and wheels	(£903,191)	(£896,632)	(£996,534)	(£1,128,725)	(£1,129,022)	(£1,116,324)
Jamaica—						
Natural abrasives ..	9	5	12	4	61	4
Grindstones	10	8	11	10	14	14
Trinidad and Tobago—						
Grindstones and wheels	15	19	15	22	22	13
Ceylon—						
Natural abrasives ..	27	308	21	16	19	70
Grinding and polishing wheels, etc.	(£12,016)	(£8,369)	(£9,435)	(£17,741)	(£13,587)	(£9,093)
Cyprus—						
Grindstones and millstones	(£8,964)	(£11,170)	(£6,538)	(£9,193)	(£11,838)	(£17,867)
Hong Kong—						
Natural abrasives ..	165	250	200	212	256	448
Grinding and polishing wheels, etc.	266	820	1,867	329	257	285

*See also Aluminium, Diamonds and Diatomaceous earth. (a) Figures for years 1962 and 1963 relate to Rhodesia and Nyasaland.

IMPORTS OF ABRASIVES (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES (cont.)						
India (a)—						
Natural abrasives ..	2,590	3,196	3,455	536	206	54
Carborundum	169	390	107	226	523	474
Grinding stones, etc. ..	201	187	262	322	293	237
Malaysia (West)—						
Natural abrasives ..	n.a.	n.a.	n.a.	109	134	106
Grinding and polishing wheels, etc.	n.a.	n.a.	n.a.	304	288	313
Sarawak—						
Grinding and polishing wheels, etc.	44	32	35	46	23	26
Singapore—						
Grinding and polishing wheels ..	153	124	200	155	136	107
Australia (b)—						
Pumice	1,134	1,128	920	1,012	628	624
Grindstones, etc.	150	254	293	386	(c) 174	375
Garnet grains	43	44	105	128	92	116
Tripoli	338	453	729	536	499	425
Other natural abrasives ..	523	590	1,129	1,520	(c) 522	(c) 420
Artificial abrasives ..	2,648	4,586	4,547	5,611	4,063	3,592
New Zealand—						
Pumice	—	(b) 47	(b) 53	(b) 56	(b) 78	(b) 53
Corundum, emery, etc. ..	8	(b) 3	(b) 8	(b) 3	(b) 7	(b) 5
Other natural abrasives (£N.Z.)	(£2,587)	(b) —	(b) —	(b) —	n.a.	n.a.
Carborundum, etc.	74	(b) —	(b) —	(b) —	(b) —	(b) —
Grindstones, etc. (£N.Z.)	(£126,446)	b(£157,693)	b(£181,464)	b(£216,223)	b(£234,465)	b(£276,524)
Irish Republic—						
Grindstones, oilstones, etc.	178	178	219	233	239	254
OTHER COUNTRIES						
Austria—						
Pumice	400	350	698	643	722	312
Other natural abrasives ..	135	114	136	106	122	100
Carborundum	1,096	1,466	1,589	1,778	1,843	1,840
Corundum, artificial ..	2,392	2,565	3,390	3,338	4,070	3,580
Grindstones	} 141	93	95	116	111	141
Millstones						
Belgium-Luxemburg						
E.U.—						
Pumice	173,635	206,435	187,555	206,788	168,845	194,728
Other natural abrasives ..	825	855	889	711	801	619
Corundum, artificial ..	1,824	2,050	2,632	3,110	3,211	3,456
Millstones, grindstones, etc. (d)	1,186	1,191	1,447	1,408	1,436	1,302
Carborundum	1,943	1,729	2,929	2,526	2,905	2,227
Denmark—						
Emery, etc.	505	520	673	721	662	521
Pumice	2,927	2,177	3,459	2,371	4,286	4,807
Carborundum	293	289	391	440	313	288
Corundum, artificial ..	383	407	439	439	424	476
Millstones and grindstones	127	45	73	49	60	64

(a) Years ended March 31 following that stated.

(b) Years ended June 30 of that stated.

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

(d) Including artificial.

IMPORTS OF ABRASIVES (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
(cont.)						
Finland—						
Emery, pumice, etc. ..	381	342	377	295	267	286
Carborundum	729	599	207	602	589	841
Millstones, grindstones, etc. (a)	1,416	1,146	1,397	1,399	1,355	1,305
France—						
Emery and corundum	1,581	2,522	1,372	4,857	1,100	788
Pumice	30,387	28,384	36,897	36,100	38,723	33,168
Other natural abrasives	256	3,534	3,646	2,135	2,682	7,984
Millstones and grindstones	386	2,569	2,998	3,478	4,087	4,279
Whetstones	44					
Carborundum	4,292	3,046	3,876	4,514	6,473	7,597
Corundum, artificial ..	1,664	2,170	1,391	1,544	2,358	3,145
Germany (Federal)—						
Emery and corundum ..	1,099	762	1,182	538	(b)	647
Pumice, etc.	6,582	186,688	203,795	108,748	75,538	71,303
Other natural abrasives	1,771	1,475	1,737	2,512	3,416	1,826
Millstones, grindstones, etc. (a)	341	300	391	2,242	6,834	2,533
Carborundum	4,033	4,424	5,144	6,401	7,994	7,973
Corundum, artificial ..	2,587	3,290	3,707	4,546	6,636	4,534
Greece—						
Millstones, grindstones, etc.	164	194	129	261	188	218
Other abrasives	22	48	73	40	n.a.	n.a.
Iceland—						
Millstones, etc.	16	10	11	13	14	8
Italy—						
Emery and corundum ..	2,005	1,898	1,556	1,316	1,469	1,078
Other natural abrasives	1,233	1,358	1,397	1,282	1,797	1,876
Millstones Grindstones etc.	2,658	2,996	2,519	2,489	3,373	3,743
Corundum, artificial ..	5,140	5,806	5,577	3,829	6,887	8,276
Carborundum	4,144	3,081	1,869	1,800	2,253	1,839
Netherlands—						
Emery	5,593	4,993	4,803	5,417	(b)	(b)
Pumice and tripoli ..	433,504	465,654	435,652	421,349	377,455	355,476
Other natural abrasives	463	482	404	426	7,883	9,764
Millstones and grindstones (a)	1,318	1,216	1,417	1,642	1,680	1,436
Corundum, artificial ..	2,025	2,057	2,714	3,160	2,849	3,251
Carborundum	610	544	695	714	679	844
Norway—						
Natural abrasives	388	381	344	332	392	427
Whetstones	8	8	4	7	5	2
Carborundum	14	966	16	76	84	12
Corundum, artificial ..	525	513	698	609	928	738
Portugal—						
Emery, etc.	186	331	280	420	355	111
Pumice	255	211	360	356	245	181
Millstones etc.	44	170	192	220	215	20
Spain—						
Emery powder	n.a.	n.a.	138	664	417	370
Corundum, artificial ..	314	453	776	1,232	2,172	1,681
Carborundum	788	904	871	1,138	1,380	1,313
Sweden—						
Emery	405	589	546	630	359	425
Other natural abrasives	700	716	643	516	944	301
Carborundum, etc. ..	3,891	3,492	3,868	4,495	5,392	3,863

(a) Including artificial.

(b) Included with "other natural abrasives."

IMPORTS OF ABRASIVES (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Sweden <i>(cont.)</i> —						
Corundum, artificial ..	4,329	3,623	4,453	5,671	5,397	5,177
Millstones Grindstones, etc. ..	99	73	63	80	31	38
Switzerland—						
Emery, crude ..	1,503	737	677	1,163	1,031	233
Carborundum, emery, etc., ground ..						
Pumice (c) ..	18,194	14,794	7,544	2,375	2,744	1,261
Millstones ..	82	72	98	76	71	44
Grindstones ..						
Whetstones ..	21	22	11	14	11	2
Corundum, artificial ..	4,250	3,413	4,004	4,882	4,678	4,006
Yugoslavia—						
Natural abrasives ..	884	766	422	267	456	684
Millstones, grindstones, etc. ..	245	328	350	486	858	615
Corundum, artificial ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	513	497	977
Carborundum ..	613	596	1,024	844	951	1,737
Egypt—						
Natural abrasives ..	1,647	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Millstones ..	66	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Grindstones ..						
Whetstones ..	93	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Malagasy Republic—						
Natural abrasives ..	17	18	14	13	12	14
Morocco—						
Millstones and grindstones ..	65	144	148	132	40	48
Natural abrasives ..	8	27	23	12	39	23
South Africa—						
Emery ..	87	164	3,526	1,737	4,821	3,128
Pumice ..	105	126				
Other abrasives ..	(£270,138)	(£271,772)				
Abrasive wheels and discs ..	(£154,988)	(£102,890)	181	281	176	235
Grindstones, millstones, etc. ..	(£4,400)	(£7,760)				
Sudan—						
Natural abrasives ..	<i>n.a.</i>	167	152	34	51	3
Grindstones ..	72	221	172	221	298	77
Tunisia—						
Pumice ..	42	11	46	29	256	22
Millstones and grindstones (a) ..	33	31	71	33	71	52
Costa Rica—						
Pumice, emery and corundum ..	9	45	6	10	13	7
Guatemala—						
Natural abrasives ..	3	11	6	5	6	13
Mexico—						
Emery and carborundum ..	1,018	990	1,626	(b) 302	(b) 669	(b) 402
Pumice ..	67	9	156	18	17	39
Millstones and grindstones ..	428	121	306	362	297	165
United States—						
Corundum, crude ..	2,170	1,817	1,758	1,696	2,700	1,986
Emery, crude ..	2,000	500	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Corundum and emery, ground ..	780	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Pumice, crude ..	6,371	2,171	4,910	8,889	8,386	5,612
do. manufactured ..	2,843	2,019	2,761	3,152	3,848	2,050

(a) Including artificial.

(b) Emery only.

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

IMPORTS OF ABRASIVES (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
(cont.)						
United States (cont.)—						
Tripoli, etc.	<i>n.a.</i>	20	<i>n.a.</i>	8	<i>n.a.</i>	<i>n.a.</i>
Crude artificial abrasives	185,657	182,353	198,260	226,767	260,000	220,000
Argentina—						
Emery	1,447	1,098	2,389	3,426	<i>n.a.</i>	28
Grindstones	15	14	45	14	24	14
Brazil—						
Emery, pumice, etc.	71	31	52	55	463	695
Carborundum	176	155	149	172	246	500
Millstones, grindstones, etc.	98	77	85	49	130	112
Chile—						
Emery	17	166	<i>r</i> 61	84	<i>n.a.</i>	<i>n.a.</i>
Carborundum	—	4	<i>r</i> 11	16	<i>n.a.</i>	<i>n.a.</i>
Millstones, grindstones, etc.	220	371	<i>r</i> 311	460	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Emery and pumice	69	102	75	105	109	67
Tripoli and other natural abrasives	30	46	31	31	21	30
Millstones and grindstones (a)	224	239	253	193	114	109
Corundum, artificial	68	99	255	104	176	<i>n.a.</i>
Peru—						
Emery and pumice	47	53	53	53	125	86
Millstones, grindstones, etc. (a)	160	112	125	284	159	217
Venezuela—						
Natural abrasives	77	35	138	164	193	196
Carborundum	22	16	9	49	33	75
Burma—						
Natural abrasives	194	<i>n.a.</i>	—	—	—	<i>n.a.</i>
Indonesia—						
Emery	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Other natural abrasives	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Iran (b)—						
Emery, etc.	4	<i>n.a.</i>	16	48	53	50
Iraq—						
Emery, pumice, etc.	5	1	4	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Grindstones, whetstones, etc.	123	209	166	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Israel—						
Natural abrasives	193	105	112	1,651	107	110
Japan—						
Emery	126	89	60	38	49	34
Other natural abrasives	893	1,099	1,445	1,337	1,796	2,849
Grindstones, etc.	12	18	12	110	89	123
Artificial abrasives	1,363	743	1,283	1,224	970	1,473
Lebanon—						
Emery	2	10	6	1	3,513	13
Pumice, etc.	426	767	1,007	23	6,167	33
Millstones	126	155	137	204	213	194
Philippine Republic—						
Emery	159	178	243	247	<i>n.a.</i>	<i>n.a.</i>
Pumice	8	24	19	16	<i>n.a.</i>	<i>n.a.</i>
Other natural abrasives	19	30	55	79	<i>n.a.</i>	<i>n.a.</i>
Thailand—						
Natural abrasives	647	624	549	892	854	1,149
Turkey—						
Natural abrasives	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	28	24
Carborundum	122	135	17	26	58	61
Millstones and grindstones (a)	511	443	313	534	684	573

(a) Including artificial.

(b) Years ended March 20 following that stated.

ALUMINIUM
(Including Bauxite and Cryolite)
PRODUCTION OF BAUXITE

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Ghana	239,500	309,400	246,400	304,200	346,800	345,400
Sierra Leone	—	(a) 19,635	128,418	204,000	270,826	329,259
Rhodesia	500	1,812	2,438	2,000	n.a.	n.a.
Jamaica (b)	7,495,122	6,903,115	7,811,188	8,514,365	8,918,378	9,247,258
Guyana (c)	2,718,997	2,129,046	2,477,628	2,872,588	3,304,701	4,781,454
India	563,859	r 557,743	582,862	695,000	734,000	776,538
Malaysia (West)	349,419	444,047	463,829	843,172	940,447	885,389
Pakistan (f)	—	—	—	—	—	n.a.
Sarawak	225,459	155,243	158,090	135,163	—	—
Australia	29,547	354,206	783,900	1,167,671	1,798,261	4,169,161
TOTAL	11,622,400	r 10,878,000	12,654,800	14,738,000	16,320,000	20,536,000
OTHER COUNTRIES						
Austria	16,693	17,548	3,649	—	—	—
France	2,159,681	1,996,873	2,394,308	2,619,764	2,766,164	2,768,500
Germany (Federal)	4,583	4,263	4,090	3,832	3,609	2,248
Greece	1,266,499	1,256,342	1,030,000	1,250,429	1,326,000	1,620,000
Hungary	1,444,695	1,341,140	1,453,958	1,454,000	1,406,000	1,623,000
Italy	304,547	265,400	247,814	240,571	238,339	238,206
Roumania	30,000	10,000	7,000	12,000	(d) 15,000	n.a.
Spain	5,951	11,632	6,665	4,097	1,918	(d) 5,000
U.S.S.R. (e)	4,200,000	4,300,000	4,300,000	4,600,000	4,700,000	5,000,000
Yugoslavia	1,311,000	1,265,000	1,273,000	1,549,000	1,857,000	2,097,000
Guinea	1,445,000	1,638,000	1,652,000	1,840,000	1,583,000	1,639,000
Mozambique	6,118	6,493	6,179	5,593	n.a.	n.a.
Dominican Republic (b)	664,778	712,050	800,662	878,921	805,463	1,074,370
Haiti (b)	434,668	327,000	430,256	376,546	355,718	453,000
United States (b)	1,369,000	1,525,000	1,601,000	1,654,000	1,796,000	1,654,000
Brazil	187,696	166,957	129,571	153,505	245,984	298,070
Surinam	3,245,000	3,384,000	3,929,875	4,291,000	5,475,000	5,380,000
Indonesia	453,916	485,323	637,574	677,389	690,150	905,633
Turkey	—	—	4,398	10,121	31,770	21,151
TOTAL (d)	18,500,000	18,700,000	r 19,900,000	21,600,000	23,000,000	24,800,000
WORLD'S TOTAL (d)	30,100,000	29,600,000	r 32,600,000	36,300,000	39,600,000	45,300,000

Bauxite is known to have been produced in China.

(a) Exports.

(b) Dried bauxite equivalent.

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

	1962	1963	1964	1965	1966	1967
Metallurgical	1,341,846	897,922	740,244	1,123,848	1,306,804	1,582,717
Chemical	129,256	76,248	100,321	133,781	204,098	184,005
Refractory	219,410	236,065	326,180	361,714	363,258	368,218
Abrasive	146,975	124,032	142,432	124,239	133,921	92,174

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
1962	40,296
1963	66,076
1964	50,078
1965	58,971
1966	63,037
1967	65,619

PRODUCTION OF ALUMINIUM

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom	34,030	30,574	31,711	35,635	36,548	38,400
Canada	616,337	642,312	752,357	741,522	794,567	870,928
India	34,653	54,358	r 55,772	58,600	82,000	94,703
Australia	16,152	41,263	78,744	86,379	90,412	90,935
TOTAL	701,172	768,507	r 918,600	922,100	1,003,000	1,095,300
OTHER COUNTRIES						
Austria	72,665	75,256	64,716	76,410	76,618	78,000
Czechoslovakia (b) .. .	60,000	60,000	60,000	61,000	61,000	64,000
France	290,436	293,653	310,999	335,150	357,770	355,505
Germany—						
Federal	175,016	205,485	216,445	234,433	240,035	248,902
East (a)	37,000	40,000	45,000	50,000	50,000	50,000
Greece	—	—	—	—	35,628	71,000
Hungary	51,899	54,621	55,976	57,180	59,541	60,820
Italy	81,599	89,984	113,769	122,018	125,629	125,760
Netherlands	—	—	—	—	20,020	31,250
Norway	202,626	212,687	256,897	274,891	318,580	355,282
Poland	47,300	45,900	47,000	46,600	54,300	91,000
Roumania	—	—	—	22,435	46,111	49,210
Spain	41,030	44,770	48,860	r 51,086	62,673	72,093
Sweden	15,696	16,800	31,600	29,100	28,000	33,000
Switzerland	48,787	59,161	63,220	66,089	67,640	71,178
U.S.S.R. (b)	890,000	r 750,000	r 800,000	r 830,000	875,000	950,000
Yugoslavia	27,538	34,845	34,756	38,160	41,358	43,870
Cameroun	51,423	52,077	51,033	50,000	47,400	47,540
Mexico	—	5,400	17,399	18,787	20,572	21,173
United States	1,891,029	2,064,757	2,279,238	2,459,355	2,650,327	2,918,981
Brazil	19,823	17,332	26,219	29,927	26,461	29,232
China (b)	100,000	100,000	100,000	100,000	100,000	80,000
Formosa	10,835	11,740	19,066	18,613	16,945	15,196
Japan	166,984	218,566	259,655	287,455	329,837	373,273
TOTAL	4,300,000	r4,500,000	r4,900,000	r5,300,000	5,700,000	6,200,000
WORLD'S TOTAL	5,000,000	r5,300,000	r5,800,000	r6,200,000	6,700,000	7,300,000

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

	1962	1963	1964	1965	1966	1967
United Kingdom	141,180	161,077	183,113	185,801	195,135	188,207
France	46,000	49,000	50,000	44,000	59,000	59,000
Germany (Federal) .. .	140,486	153,929	185,583	199,716	193,632	182,579
Italy	r 55,000	r 64,000	r 57,000	r 60,000	84,000	100,000
United States	412,282	451,421	492,581	572,070	618,778	622,992
Japan	70,400	89,400	102,800	116,000	137,200	175,300

(a) Estimated.

(b) United States Bureau of Mines' estimate.

EXPORTS OF ALUMINIUM, ETC.*

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Alumina and hydrate ..	15,825	19,458	17,138	20,915	13,660	21,847
Unwrought (a) ..	5,379	7,444	6,738	23,931	26,017	21,873
Scrap (a) ..	4,232	2,305	1,561	6,790	7,489	2,004
Semi-manufactures (a) ..	59,178	54,999	47,081	44,764	47,402	37,760
of which—Foil ..	6,473	6,617	7,273	7,153	7,212	6,721
Powder ..	466	289	427	600	840	969
Aluminium sulphates ..	27,807	24,352	36,651	38,317	19,167	13,664
Ghana—						
Bauxite ..	286,798	207,423	264,458	282,887	306,098	295,693
Sierra Leone—						
Bauxite ..	—	19,635	126,553	173,472	240,488	329,259
Canada—						
Alumina (e) ..	3,458	2,361	4,501	6,937	11,656	11,277
Unwrought (a) ..	514,470	567,131	560,707	631,707	639,627	679,151
Scrap ..	27,005	38,880	29,292	34,746	40,867	47,579
Semi-manufactures (a) ..	20,630	24,187	16,458	23,590	30,732	27,385
of which—Foil ..	413	1,080	338	389	262	206
Jamaica—						
Bauxite (b) ..	5,986,678	5,161,568	5,967,210	6,784,459	7,019,615	7,142,416
Alumina ..	627,645	725,613	768,085	720,599	790,690	824,533
Guyana—						
Bauxite, dried ..	1,465,266	(d) 974,170	585,452	1,263,490	1,530,893	1,823,734
do. calcined ..	366,277	(d) 358,366	733,854	494,374	492,496	458,808
Alumina ..	214,639	(d) 221,993	245,195	275,211	296,953	268,908
Hong Kong—						
Scrap ..	638	790	992	1,456	1,533	1,852
Semi-manufactures (a) ..	1,753	1,665	2,803	2,292	3,523	3,287
India—						
Bauxite ..	245,186	133,035	92,932	61,840	76,705	59,912
Unwrought (a) (c) ..	—	7,204	534	2	396	749
Semi-manufactures (a) (c) ..	15	76	290	1,112	1,075	1,173
Aluminium sulphate (c) ..	1,649	5,819	11,815	7,336	157	904
Malaysia (West)—						
Bauxite ..	314,858	450,463	547,945	670,894	1,007,158	852,299
Sarawak—						
Bauxite ..	198,698	172,181	165,903	164,609	—	—
Singapore—						
Semi-manufactures (a) ..	1,317	1,326	725	762	889	574
of which—Foil ..	286	334	159	113	191	171
Aluminium sulphates ..	3,328	3,566	3,014	4,504	6,956	8,211
Australia—						
Bauxite ..	6,470	143,339	405,825	610,574	(d) 859,000	1,118,000
Unwrought (a) ..	40	5,323	15,128	21,207	16,210	10,501
Scrap (a) ..	355	250	405	1,073	1,454	1,126
Semi-manufactures (a) ..	248	253	563	2,152	6,470	4,835
OTHER COUNTRIES						
Austria—						
Bauxite ..	4,969	6,747	2,350	—	—	—
Unwrought (a) ..	41,144	34,829	33,327	31,466	36,498	23,220
Scrap ..	4,299	4,137	4,210	4,369	5,365	5,806
Semi-manufactures (a) ..	15,734	19,204	21,725	21,346	26,166	28,655
of which—Foil ..	2,768	2,831	2,958	3,796	3,545	4,828
Powder ..	962	868	1,126	913	2,422	3,800

*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.

(e) Officially described as "Aluminium ores and concentrates" but believed to consist wholly or largely of alumina.

EXPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Belgium-Luxemburg—						
Bauxite	—	73	14	315	—	—
Cryolite	134	88	141	140	489	1
Alumina and hydrate	2	1	3	8	13	131
Unwrought	158	113	334	1,201	1,633	5,160
do. alloys	637	700	723	1,120	1,493	1,551
Scrap	2,700	5,040	6,501	8,362	8,284	9,741
Semi-manufactures (a)	57,674	69,050	83,025	97,230	121,559	101,427
Aluminium sulphates	12,509	13,962	14,511	15,030	15,015	13,947
Denmark—						
Refined cryolite	25,008	24,861	23,988	25,732	26,381	27,844
Unwrought	5	130	1	—	146	18
do. alloys	1,427	1,884	1,880	3,019	2,513	1,808
Scrap	697	454	329	443	1,040	1,174
Semi-manufactures (a)	705	729	683	895	1,151	1,473
of which—Foil	205	178	192	223	218	350
Finland—						
Unwrought	101	76	788	293	806	830
Semi-manufactures	593	1,041	1,182	1,093	1,256	1,646
of which—Foil	555	982	1,037	988	1,158	1,516
France—						
Bauxite	262,418	202,649	196,481	198,596	275,748	155,757
Cryolite	117	87	39	547	11	102
Alumina	165,097	168,100	139,557	105,030	141,902	181,314
do. hydrate	13,243	12,905	14,555	24,616	13,691	19,758
Unwrought	84,254	82,513	85,409	122,687	110,682	102,170
do. alloys	19,274	40,209	37,778	57,127	57,661	35,896
Scrap (a)	7,202	12,174	11,246	6,181	11,657	13,144
Semi-manufactures (a)	28,715	32,713	51,624	45,103	57,208	66,313
of which—Foil	7,179	8,106	7,876	8,382	8,453	9,588
Powder	90	166	256	423	810	663
Aluminium sulphates	7,824	10,992	10,956	11,690	9,903	11,911
Germany (Federal)—						
Bauxite and cryolite	622	732	833	1,323	4,367	2,486
Alumina	65,059	70,378	74,200	77,448	90,674	111,992
do. hydrate	28,146	28,834	34,869	37,575	37,777	42,194
Unwrought	2,015	9,523	4,487	4,808	10,695	8,890
do. alloys	3,914	4,437	5,194	5,197	10,454	12,568
Scrap (a)	1,451	1,428	1,126	842	6,750	10,494
Semi-manufactures (a)	46,332	52,259	56,656	58,700	79,022	94,683
of which—Foil	16,773	19,853	22,503	26,392	31,143	32,372
Powder	1,397	1,391	1,686	2,135	2,376	3,117
Greece—						
Bauxite	886,665	1,100,000	1,046,324	1,131,921	1,150,820	1,113,827
Unwrought	n.a.	n.a.	n.a.	n.a.	27,144	58,971
Semi-manufactures	789	927	994	426	1,344	2,160
Alumina	n.a.	n.a.	n.a.	n.a.	n.a.	33,223
Hungary—						
Bauxite	707,661	656,409	749,069	555,000	611,000	657,450
Alumina	124,401	132,300	154,149	191,000	172,000	241,131
Unwrought	6,427	10,373	11,998	19,278	16,087	19,172
Semi-manufactures	5,449	5,007	4,839	5,696	6,834	7,817
Italy—						
Bauxite	—	915	3,145	516	1,589	315
Alumina	27,982	20,165	5,305	8,456	6,994	8,556
do. hydrate	2,715	2,647	2,993	2,966	2,515	1,883
Unwrought	131	248	18,875	31,536	20,317	4,864
do. alloys						
Semi-manufactures (a)	7,138	8,224	17,209	22,644	26,640	29,471
of which—Foil	739	902	1,207	1,736	3,294	4,018
Aluminium sulphates	10,388	8,869	126	2,506	3,654	n.a.

(a) Including alloys.

EXPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Netherlands—						
Bauxite	635	830	147	2	375	70
Unwrought (a) .. .	772	267	741	1,003	15,901	25,193
Scrap (a)	4,777	7,279	8,843	9,318	11,549	10,055
Semi-manufactures (a)	10,605	11,723	13,499	15,605	17,188	18,760
of which—Foil .. .	2,992	3,430	3,695	3,592	4,242	5,030
Powder	2	3	2	1	26	5
Aluminium sulphates ..	9	6	10	192	18	4
Norway—						
Alumina	24	—	—	4	—	1
Unwrought	160,002	195,491	248,852	227,262	316,031	292,854
do. alloys	8,976	8,722	11,768	11,303	26,480	17,091
Scrap	423	636	251	618	1,821	3,728
Semi-manufactures (a)	4,446	4,171	4,595	4,995	7,574	7,645
of which—Foil .. .	151	146	189	263	236	287
Powder	37	129	95	82	84	35
Roumania—						
Bauxite	14,800	7,874	—	—	—	<i>n.a.</i>
Spain—						
Unwrought	10,439	10,130	8,105	—	—	10,673
Semi-manufactures (a)	13,943	5,308	2,603	1,989	3,161	4,555
Sweden—						
Unwrought (a) .. .	241	501	2,114	1,764	587	3,826
Scrap	822	802	887	598	719	1,428
Semi-manufactures (a)	7,382	9,959	11,380	8,212	13,769	18,336
of which—Powder ..	344	404	365	421	447	504
Aluminium sulphates ..	9,499	11,463	8,374	6,814	4,530	3,575
Switzerland—						
Alumina and hydrate	58	60	118	110	102	65
Unwrought and scrap ..	8,428	17,891	18,864	19,111	13,176	19,516
do. alloys						
Semi-manufactures (a)	15,040	16,842	19,909	22,528	7,138	25,958
U.S.S.R.—						
Cryolite	2,800	3,000	3,400	3,200	3,800	3,800
Unwrought	113,900	120,200	172,400	225,400	251,700	249,103
Semi-manufactures .. .	21,062	25,294	33,561	41,400	53,900	59,400
Yugoslavia—						
Bauxite	899,523	981,512	1,062,639	932,672	1,455,887	1,784,128
Alumina and hydrate ..	13,959	13,058	13,700	11,419	12,831	11,405
Unwrought	—	930	1,141	1,169	1,646	6,225
Scrap	1,887	2,209	1,637	2,384	145	153
Semi-manufactures .. .	12,456	13,966	18,201	21,321	17,841	18,053
Cameroun—						
Unwrought	50,125	51,459	47,956	45,377	45,384	<i>n.a.</i>
Guinea—						
Bauxite	<i>n.a.</i>	<i>n.a.</i>	164,017	240,188	<i>n.a.</i>	<i>n.a.</i>
Alumina	450,425	479,000	<i>n.a.</i>	<i>n.a.</i>	512,000	<i>n.a.</i>
Morocco—						
Scrap (a)	670	469	261	440	565	429
Mozambique—						
Bauxite	5,424	5,760	7,249	5,880	5,535	<i>n.a.</i>
South Africa—						
Semi-manufactures	<i>n.a.</i>	<i>n.a.</i>	936	1,362	1,513	1,528
Tunisia—						
Unwrought and scrap	309	256	187	224	181	139

(a) Including alloys.

EXPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Dominican Republic—						
Bauxite	855,465	931,966	909,028	1,121,380	985,465	c) 1,000,644
Greenland—						
Cryolite	40,296	66,076	50,078	58,971	63,037	65,619
Haiti—						
Bauxite (b)	(c) 505,800	(c) 379,630	(c) 458,287	(c) 382,000	(c) 328,000	(c) 313,000
United States—						
Alumina, etc.	258,561	203,196	293,542	r 288,540	296,127	499,090
Cryolite (d)	990	3,320	3,022	3,895	2,481	1,096
Unwrought (a)	134,997	147,625	186,702	147,849	168,071	186,615
Scrap (a)	58,513	63,429	61,263	34,417	43,451	48,689
Semi-manufactures	49,993	62,354	66,415	102,041	87,374	100,910
of which—Foil	2,220	1,636	1,487	2,762	2,761	3,225
Powder (Al content)	427	438	495	562	810	1,009
Aluminium sulphates ..	15,871	15,693	14,742	13,965	19,696	14,440
Argentina—						
Unwrought	n.a.	1,729	1,295	134	8	10
Aluminium sulphates ..	n.a.	13	50	34	39	25
Brazil—						
Bauxite	1,968	2,264	3,494	2,166	2,235	2,195
Surinam—						
Bauxite	3,202,900	3,427,146	3,921,312	4,299,917	4,512,113	3,804,839
Alumina	—	—	—	58,419	343,344	673,727
Unwrought	—	—	—	1,233	25,295	30,606
Formosa—						
Unwrought (a)	2,585	3,377	7,093	5,645	3,747	n.a.
Semi-manufactures (a) ..	1,483	2,326	3,225	2,691	2,819	n.a.
Aluminium sulphates ..	n.a.	n.a.	n.a.	522	240	n.a.
Indonesia—						
Bauxite	389,111	n.a.	(e) 610,000	683,105	672,316	(e) 768,900
Israel—						
Scrap	258	699	855	801	889	836
Japan—						
Bauxite	1,026	394	591	787	796	514
Cryolite	2	—	—	1	—	—
Alumina	94,900	99,856	102,100	92,427	106,623	73,317
do. hydrate	5,998	4,209	6,155	8,101	11,031	12,840
Unwrought	5,406	13,872	18,870	28,654	18,392	1,249
do. alloys	150	17	291	50	577	658
Semi-manufactures (a) ..	12,419	17,929	16,916	24,833	30,633	19,243
of which—Foil	3,365	2,495	2,809	3,296	4,212	4,959
Aluminium sulphates ..	12,340	17,749	14,582	12,228	14,587	13,048

(a) Including alloys.

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

(c) United States imports.

(d) Including artificial.

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

IMPORTS OF ALUMINIUM, ETC.*

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Bauxite, uncalcined ..	} (e) 425,667	(e) 331,195	(e) 373,550	{ 437,941	454,068	436,604
do. calcined ..						
Cryolite ..	1,930	3,110	3,398	2,476	2,439	1,533
Alumina ..	5,001	4,884	8,603	9,591	6,856	5,910
Unwrought ..	197,670	203,978	255,164	236,815	259,029	223,971
do. alloys ..	52,885	62,814	70,203	79,748	81,436	77,779
Scrap (a) ..	8,437	8,992	12,010	23,479	15,981	13,905
Semi-manufactures (a)	21,744	26,142	26,166	23,893	28,261	30,284
of which—Foil ..	2,263	2,341	3,177	2,682	3,423	2,210
Malta—						
Semi-manufactures ..	(£23,325)	(£49,060)	(£114,924)	(£60,373)	(£38,835)	(£52,911)
Ghana—						
Alumina ..	62	—	—	—	18,320	114,673
Unwrought (a) ..	924	191	78	283	207	387
Semi-manufactures (a)	3,303	7,207	1,122	5,909	7,068	2,020
Kenya—						
Unwrought (a) ..	1,235	1,743	761	22	n.a.	n.a.
Semi-manufactures (a)	621	864	630	728	653	693
of which—Foil ..	194	174	176	184	179	209
Malawi—						
Semi-manufactures ..	—	—	—	372	511	494
Mauritius—						
Semi-manufactures (a)	227	285	345	324	277	272
Nigeria—						
Unwrought and semi-manufactures (a) ..	5,242	5,896	6,325	2,402	1,232	1,950
Rhodesia (b)—						
Semi-manufactures (a)	1,241	1,127	806	1,106	n.a.	n.a.
of which—Foil ..	296	216	115	129	n.a.	n.a.
Sierra Leone—						
Semi-manufactures (a)	89	123	29	62	168	n.a.
Tanzania—						
Unwrought ..	—	231	2,217	1,272	3,349	673
Semi-manufactures (a)	163	190	932	757	341	215
Uganda—						
Semi-manufactures (a)	192	88	162	433	463	400
of which—Foil ..	94	55	113	97	112	83
Zambia—						
Semi-manufactures (a)	n.a.	n.a.	184	346	340	368
Barbados—						
Semi-manufactures (a)	74	48	63	98	120	116
Jamaica—						
Semi-manufactures (a)	1,111	1,212	1,925	2,049	2,656	4,403
Canada—						
Bauxite ..	} 1,994,356	1,967,842	{ 1,563,668	1,827,745	2,254,078	2,286,887
Alumina ..						
Cryolite ..	4,562	4,336	(d) 2,163	(d) 2,161	(d) 3,260	(d) 2,751
Unwrought ..	3,441	1,731	3,568	6,200	15,110	7,300
Scrap ..	1,131	1,331	(a) 17,957	(a) 29,658	(a) 20,899	(a) 8,522
Semi-manufactures (a)						
(excluding Foil) ..	16,743	28,258	34,410	41,248	53,076	71,796
of which—Powder ..	109	147	250	807	797	524
Foil ..	n.a.	n.a.	576	509	406	916
	(£438,712)	(£474,136)	(£292,993)	(£256,904)	(£209,950)	(£459,425)
Aluminium sulphates ..	2,934	3,072	2,484	1,755	2,104	1,608
Trinidad and Tobago—						
Semi-manufactures (a)	936	(c) 5,807	1,602	447	638	766
Aluminium sulphates ..	997	672	876	1,394	1,128	1,165

* 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 1962 and 1963 relate to Rhodesia and Nyasaland. (d) Natural cryolite only.

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

IMPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES—(cont.)						
Guyana—						
Semi-manufactures (a)	253	n.a.	405	128	140	182
Aluminium sulphates ..	380	n.a.	—	499	347	536
Aden—						
Semi-manufactures (a)	233	10	386	296	208	164
Ceylon—						
Semi-manufactures (a)	2,882	2,984	3,801	2,859	2,409	2,034
of which—Foil.. ..	170	125	114	68	65	362
Cyprus—						
Semi-manufactures (a)	180	268	248	284	400	417
Hong Kong—						
Bauxite	315	300	633	437	63	500
Unwrought (a) .. .	4,604	5,644	10,337	4,725	7,088	9,761
Scrap	11	42	20	41	81	120
Semi-manufactures (a)	2,204	3,055	3,820	3,946	3,669	2,466
of which—Foil.. ..	724	723	737	910	683	751
Aluminium sulphate ..	752	1,076	1,480	2,282	1,065	888
India (b)—						
Cryolite	2,636	2,390	2,414	3,051	1,152	1,068
Alumina	19,672	3,487	2,062	800	15,798	19,064
Unwrought	14,936	3,875	3,473	1,494	9,593	24,977
do. alloys	3	—	9	100	52	98
Scrap	—	—	10	44	—	—
Semi-manufactures (a)	22,555	20,412	19,094	12,711	22,697	13,123
of which—Foil.. ..	957	426	185	189	90	144
Powder	149	151	144	178	156	202
Aluminium sulphate ..	1	4	17	120	—	10
Malaysia (West)—						
Unwrought (a) .. .	n.a.	n.a.	n.a.	550	1,566	1,522
Semi-manufactures (a)	n.a.	n.a.	n.a.	3,253	2,953	2,927
of which—Foil.. ..	n.a.	n.a.	n.a.	736	804	813
Pakistan—						
Unwrought (a) .. .	n.a.	5,064	22,363	n.a.	n.a.	n.a.
Semi-manufactures (a)	n.a.	2,398	3,738	n.a.	n.a.	n.a.
Aluminium sulphates ..	1,041	67	36	n.a.	n.a.	n.a.
Sabah—						
Semi-manufactures (a)	75	86	148	173	130	104
Sarawak—						
Semi-manufactures (a)	95	124	283	325	340	179
Aluminium sulphates ..	195	131	329	484	340	374
Singapore—						
Bauxite	—	—	4	101	61,080	295
Alumina and hydrate ..	350	565	423	1,644	3,293	3,722
Semi-manufactures (a)	2,400	5,349	2,747	2,997	3,108	3,270
of which—Foil.. ..	467	469	236	294	370	455
Aluminium sulphate ..	3,731	5,539	2,190	1,761	252	139
Australia—						
Bauxite	69,904	14,113	577	n.a.	n.a.	n.a.
Cryolite	(d) 3,678	(d) 5,078	(d) 3,282	(d) 2,387	187	237
Alumina and hydrate (c)	259	49,237	65,427	64,927	51,074	59,045
Unwrought (a) .. .	31,389	12,115	565	357	449	361
Scrap (a)	1,074	3,108	872	797	937	1,468
Semi-manufactures (a)	5,427	3,313	2,788	3,856	2,460	2,177
of which—Foil.. ..	2,101	1,212	1,063	1,433	702	516
Powder	250	205	297	440	257	365
New Zealand—						
Unwrought	5,024	(c) 5,148	(c) 6,633	(c) 8,937	(c) 7,872	(c) 9,910
Semi-manufactures (a)	2,548	(c) 2,779	(c) 2,732	(c) 2,537	(c) 2,924	(c) 5,621
of which—Foil.. ..	344	(c) 3	(c) 758	(c) 684	(c) 829	(c) 875

(a) Including alloys.

(c) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated. (d) Including artificial.

IMPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
Irish Republic—						
Unwrought (a) ..	4,897	5,373	8,813	7,707	10,189	8,228
Semi-manufactures (a) ..	3,069	3,268	3,894	3,984	4,851	4,706
of which—Foil.. ..	483	644	677	796	841	694
Aluminium sulphates ..	3,588	3,276	2,011	3,539	3,288	845
OTHER COUNTRIES						
Austria—						
Bauxite	12,951	13,072	16,590	22,534	24,191	30,459
Cryolite	334	483	434	410	415	351
Alumina	135,229	149,223	139,606	163,750	151,498	163,102
do. hydrate	4,393	4,565	5,603	5,954	6,008	5,402
Unwrought (a) ..	804	655	2,011	1,381	2,463	5,256
Semi-manufactures (a) ..	1,886	2,722	4,378	6,913	7,683	7,148
Aluminium sulphates ..	1,658	1,868	1,793	1,734	2,141	2,379
Belgium-Luxemburg—						
Bauxite	5,425	3,200	5,071	7,129	1,546	7,975
Cryolite	134	88	141	140	136	254
Alumina	1,022	881	1,010	918	1,342	1,945
do. hydrate	8,377	9,344	11,022	10,023	11,738	11,841
Unwrought	52,470	67,242	81,764	79,287	106,061	105,645
do. alloys	14,754	20,408	29,091	35,884	44,080	32,127
Scrap	1,775	2,315	2,636	3,707	1,765	1,701
Semi-manufactures (a) ..	16,071	16,355	18,047	18,373	24,861	22,401
of which—Foil.. ..	3,523	3,343	3,941	3,813	3,473	3,508
Powder	572	266	192	415	533	718
Aluminium sulphates ..	544	137	133	131	229	233
Denmark—						
Bauxite	500	500	400	2,770	1,363	1,997
Crude cryolite	32,188	49,473	37,732	38,169	46,123	48,456
Unwrought	6,070	5,242	6,364	6,534	5,089	5,716
do. alloys	481	469	758	2,634	1,354	3,214
Scrap	377	1,215	921	1,253	1,075	605
Semi-manufactures (a) ..	9,992	11,395	14,735	13,985	14,467	16,787
of which—Foil.. ..	2,209	2,122	2,616	3,457	3,577	4,116
Powder	150	176	152	170	146	172
Aluminium sulphates ..	4,721	4,773	4,813	5,753	5,611	4,659
Finland—						
Alumina	86	36	89	56	54	74
do. hydrate	10,232	8,433	11,368	13,499	13,470	16,388
Unwrought (a)	6,706	3,995	6,238	8,113	11,788	14,232
Semi-manufactures (a) ..	11,276	10,821	13,141	12,189	13,702	13,564
of which—Foil.. ..	558	588	848	1,310	1,489	1,405
Powder	146	103	422	273	171	126
Aluminium sulphates ..	12,973	11,239	9,912	9,809	7,507	6,431
France—						
Bauxite	100,230	140,248	143,542	114,669	151,131	222,803
Cryolite	1,402	1,320	1,703	1,358	1,953	1,408
Alumina	191,842	124,720	65,979	19,332	20,072	2,902
do. hydrate	81	71	30	57	133	312
Unwrought	49,820	51,915	65,746	64,514	80,024	91,263
do. alloys	932	3,074	5,548	6,048	5,868	5,951
Scrap (a)	1,307	2,260	2,643	1,071	5,397	5,455
Semi-manufactures (a) ..	7,641	12,215	15,997	20,550	29,943	37,608
of which—Foil.. ..	3,780	5,336	6,493	7,187	8,805	10,408
Powder	160	207	854	605	855	1,675
Aluminium sulphates ..	2	20	40	2	1,030	1,360
Germany (Federal)—						
Bauxite	1,369,442	1,484,200	1,596,607	1,610,277	1,852,721	1,773,565
Cryolite	3,315	2,935	3,187	3,519	2,734	1,580
Alumina	34,071	48,880	52,717	56,816	50,743	64,488
do. hydrate	942	1,389	1,480	805	1,304	1,664
Unwrought	105,058	104,211	134,041	136,663	147,335	153,665
do. alloys	11,068	14,554	28,623	30,178	26,666	28,788
Scrap	41,274	43,240	55,918	57,736	50,045	48,933

(a) Including alloys.

IMPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (Federal)						
<i>(cont.)—</i>						
Semi-manufactures (a)	12,423	18,150	28,387	32,152	37,917	38,143
of which—Foil.. ..	1,918	3,049	2,785	3,666	4,844	4,502
Powder	341	269	437	540	1,281	2,785
Germany (East)—						
Bauxite	281,425	322,072	322,002	246,156	285,549	313,990
Alumina	16,732	18,023	41,522	45,454	28,599	49,310
Greece—						
Alumina	186	450	816	445	2,286	294
do. hydrate	826	683	469	882	8,961	1,420
Unwrought	5,868	5,639	8,422	8,446	6,406	2,419
Semi-manufactures (a)	978	1,099	1,291	2,437	1,494	967
of which—Foil.. ..	736	905	896	746	434	762
Aluminium sulphates ..	249	79	1	249	209	n.a.
Hungary—						
Cryolite	3,156	519	1,727	n.a.	n.a.	n.a.
Unwrought	568	2,418	7,522	—	—	—
Iceland—						
Semi-manufactures ..	459	364	310	288	400	241
Italy—						
Bauxite	289,747	344,083	373,533	469,079	526,353	533,968
Cryolite	455	1,063	895	601	559	623
Alumina	4,444	8,643	4,543	1,978	29,549	22,507
do. hydrate	447	377	364	708	7,446	3,754
Unwrought	43,557	53,257	32,174	33,159	62,236	80,834
do. alloys						
Scrap	46,709	52,152	31,268	27,364	52,339	63,842
Semi-manufactures (a)	10,149	16,000	17,198	15,640	20,290	25,933
of which—Foil.. ..	3,099	4,577	3,640	3,193	4,810	5,266
Powder	123	157	206	168	143	79
Aluminium sulphates ..	152	783	178	1,360	4,332	6,524
Netherlands—						
Bauxite	1,674	10,204	4,262	21,347	34,745	16,278
Cryolite	268	380	207	141	1,533	779
Alumina	806	784	834	1,204	61,312	65,339
do. hydrate	7,035	6,902	8,077	9,224	9,428	9,857
Unwrought (a)	14,526	19,501	22,020	19,855	19,515	19,112
Scrap (a)	2,044	2,146	2,925	3,086	3,823	4,516
Semi-manufactures (a)	17,475	17,218	29,262	28,906	34,218	36,520
of which—Foil.. ..	4,019	4,093	4,818	5,425	5,880	6,422
Powder	127	98	126	160	148	196
Aluminium sulphates ..	8,664	10,684	11,438	12,433	13,074	13,630
Norway—						
Bauxite	37,797	24,480	29,560	28,792	32,056	34,293
Cryolite	1,862	3,239	2,613	4,226	4,442	4,247
Alumina	405,297	437,524	515,664	531,793	604,873	701,340
Unwrought	782	1,236	10,829	9,036	8,085	10,714
do. alloys	572	221	822	676	964	1,487
Scrap	507	170	56	31	571	294
Semi-manufactures (a)	7,760	8,714	9,952	6,926	10,565	11,846
of which—Foil.. ..	443	407	495	535	648	666
Powder	229	180	174	208	123	145
Aluminium sulphates ..	10,868	11,633	9,989	4,328	1,441	780
Poland—						
Bauxite	(b) 41,000	59,200	85,700	113,973	113,687	106,112
Cryolite	n.a.	1,086	1,616	1,460	4,127	4,351
Alumina	107,000	87,500	91,800	84,700	118,136	164,670
Portugal—						
Cryolite	22	39	30	45	32	49
Unwrought (a)	1,433	1,062	733	1,157	836	610
Semi-manufactures (a)	3,638	4,880	6,293	7,195	8,014	7,783
of which—Powder ..	74	76	78	79	101	186
Aluminium sulphates ..	2,752	2,771	4,177	3,704	4,723	4,213

(a) Including alloys.

(b) Exports to Poland from Hungary.

IMPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Spain—						
Bauxite	46,088	64,668	52,285	83,890	76,327	63,675
Cryolite	601	246	418	645	1,143	1,155
Alumina and hydrate ..	89,678	90,532	99,541	113,690	137,219	156,262
Unwrought and scrap ..	8,307	10,483	9,989	16,798	25,736	15,669
Semi-manufactures (a)	1,849	3,620	6,421	7,907	11,418	9,069
<i>of which—Powder</i> ..	21	24	27	53	55	51
Sweden—						
Bauxite	23,850	13,572	30,856	22,625	26,770	48,344
Cryolite	924	493	1,190	1,159	292	1,234
Alumina and hydrate ..	39,875	38,497	67,204	69,833	47,162	84,977
Unwrought	25,580	29,659	17,324	17,559	31,899	20,587
do. alloys	4,752	6,620	7,550	9,262	8,562	8,598
Scrap	309	318	112	28	235	1,074
Semi-manufactures (a)	13,893	14,632	19,831	18,727	21,825	24,997
<i>of which—Foil</i> ..	2,105	2,059	2,929	3,008	4,216	3,596
<i>Powder</i>	342	268	240	381	414	318
Aluminium sulphates ..	5,315	4,571	10,370	4,817	6,489	5,284
Switzerland—						
Bauxite	1,348	1,440	2,553	2,871	1,954	583
Cryolite	1,217	825	226	155	507	876
Alumina	105,424	122,805	118,767	134,225	132,545	141,888
Unwrought and scrap (a)	10,937	4,489	5,871	12,055	13,176	6,694
Semi-manufactures (a)	7,622	8,708	8,029	6,769	7,138	6,615
Aluminium sulphates ..	4,166	3,862	3,926	4,126	4,799	4,063
U.S.S.R.—						
Bauxite	(b) 303,400	(b) 434,300	(b) 442,200	(b) 473,400	(c) 774,800	(d) 620,960
Semi-manufactures ..	3,740	6,299	5,512	7,200	600	n.a.
Yugoslavia—						
Bauxite	2,681	3,029	5,442	3,368	6,983	7,693
Cryolite	749	30	358	n.a.	n.a.	n.a.
Alumina and hydrate ..	349	582	2,638	61	67	3,429
Unwrought	10,522	6,629	15,612	19,476	25,707	24,900
Semi-manufactures (a)	581	1,036	1,103	1,161	1,188	2,739
<i>of which—Foil</i> ..	369	778	393	253	824	1,278
Angola—						
Semi-manufactures ..	323	430	643	856	695	854
Aluminium sulphates ..	403	381	1,032	1,207	n.a.	n.a.
Cameroun—						
Alumina	83,344	123,021	92,550	83,637	43,140	n.a.
Egypt—						
Unwrought and scrap ..	2,106	3,849	4,717	4,881	8,196	n.a.
Semi-manufactures ..	1,339	966	884	1,675	4,760	n.a.
<i>of which—Foil</i> ..	602	681	415	593	258	n.a.
Aluminium sulphates ..	21,591	n.a.	n.a.	n.a.	n.a.	n.a.
Malagasy Republic—						
Aluminium sulphates	255	320	281	271	276	441
Morocco—						
Bauxite	3,185	2,513	907	2,462	984	1,970
Alumina and hydrate ..	50	120	n.a.	119	598	652
Semi-manufactures (a)	1,691	1,749	1,864	1,584	1,565	2,505
<i>of which—Foil</i> ..	280	456	320	243	129	41
<i>Powder</i>	57	75	51	60	62	102
Aluminium sulphates ..	1,772	1,443	1,346	1,412	661	65
Mozambique—						
Semi-manufactures (a)	209	255	275	384	465	n.a.
South Africa—						
Bauxite	n.a.	n.a.	8,504	7,641	} 15,438	} 9,307
Cryolite	n.a.	n.a.	71	76		
Alumina and hydrate ..	n.a.	n.a.	284	732		
Unwrought	13,802	16,487	16,659	20,052	26,907	19,443

(a) Including alloys.

(b) Imports from Greece.

(c) Imports from Greece and Yugoslavia.

(d) Imports from Yugoslavia.

IMPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
South Africa <i>(cont.)</i> —						
Semi-manufactures (a)	2,670	4,607	7,823	8,262	9,225	11,044
of which—Foil.. ..	506	572	640	667	205	414
Powder	51	45	150	20	31	84
Aluminium sulphates ..	2,990	3,535	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sudan—						
Semi-manufactures (a)	460	653	888	862	1,193	1,368
Aluminium sulphates ..	<i>n.a.</i>	970	1,134	507	809	669
Tunisia—						
Unwrought and scrap (a)	3	1	—	22	16	14
Semi-manufactures ..	231	374	394	506	394	556
Costa Rica—						
Semi-manufactures (a)	395	510	670	764	794	828
Cuba—						
Sulphate	142	691	354	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Unwrought	1,427	841	497	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Semi-manufactures ..	3,783	6,100	4,089	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Honduras—						
Semi-manufactures ..	107	150	230	221	484	1,114
Mexico—						
Bauxite, calcined ..	7,247	5,860	4,801	14,745	9,732	13,332
Alumina and hydrate ..	3,820	23,384	36,761	48,697	46,790	47,310
Unwrought	15,663	8,928	50	529	117	145
Semi-manufactures ..	1,999	14,414	6,883	4,379	1,164	3,885
Aluminium sulphates ..	579	1,077	831	2	3	2
Nicaragua—						
Semi-manufactures ..	250	271	282	617	745	751
Salvador—						
Semi-manufactures (a)	224	51	356	426	882	1,387
United States—						
Bauxite, crude dried (c)	10,575,000	9,212,000	10,180,000	11,199,000	11,529,000	11,673,000
do. calcined	120,150	87,951	188,970	215,989	204,173	214,136
Cryolite	11,136	24,031	21,664	21,438	28,263	32,428
Alumina and hydrate ..	157,670	170,128	227,961	202,303	478,387	871,793
Unwrought (a)	277,638	371,132	350,788	468,542	466,060	398,446
Scrap	5,800	8,309	7,279	24,133	30,015	27,222
Semi-manufactures ..	57,364	41,125	51,431	61,685	113,890	55,928
of which—Foil (b) ..	4,518	4,301	4,619	<i>n.a.</i>	2,490	1,573
Aluminium sulphates ..	5,077	3,698	<i>n.a.</i>	7,362	<i>n.a.</i>	<i>n.a.</i>
Argentina—						
Bauxite	26,051	4,225	30,781	28,954	42,873	33,539
Ingots and bars	15,252	14,798	33,107	35,814	36,356	30,532
Brazil—						
Cryolite	590	555	962	988	1,076	1,121
Alumina	4,404	562	39	1,018	576	455
do. hydrate	808	497	460	391	582	467
Unwrought (a)	19,199	25,408	18,256	21,499	38,916	28,641
Semi-manufactures (a)	278	549	250	387	1,342	1,068
of which—Foil	76	92	98	114	242	203
Powder	27	32	16	77	176	424
Aluminium sulphates ..	2	1	—	1	6	7
Chile—						
Unwrought	1,253	3,043	<i>r</i> 2,502	3,099	<i>n.a.</i>	<i>n.a.</i>
Bars, sheets and alloys ..	435	277	<i>r</i> 192	211	<i>n.a.</i>	<i>n.a.</i>
Aluminium sulphates ..	—	1	<i>r</i> —	—	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Bauxite	5,986	7,087	4,413	9,024	8,841	5,893
Alumina and hydrates ..	271	99	92	155	206	259
Unwrought (a)	5,575	2,371	6,163	3,828	8,473	4,673
Semi-manufactures (a)	1,109	918	1,182	621	1,211	972
Aluminium sulphates ..	1,214	310	1,368	1,069	641	4

(a) Including alloys. (b) Excluding leaves 5½ in. by 5½ in. recorded by number only.
 (c) Dry Bauxite equivalent.

IMPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Ecuador—						
Semi-manufactures ..	249	525	517	651	<i>n.a.</i>	<i>n.a.</i>
Aluminium sulphates ..	1,185	827	1,041	866	<i>n.a.</i>	<i>n.a.</i>
Peru—						
Unwrought (a) ..	563	627	865	1,743	2,391	3,016
Semi-manufactures (a) ..	1,664	1,841	2,394	2,250	1,555	1,504
Aluminium sulphates ..	3,218	3,104	275	219	249	54
Uruguay—						
Unwrought	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	399	1,463	1,746
Aluminium sulphates ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	20	1,722	3,445
Venezuela—						
Unwrought	1,019	855	1,970	2,921	1,727	2,651
Semi-manufactures ..	7,586	6,768	6,136	4,685	6,255	9,906
Aluminium sulphates ..	7,134	7,096	8,683	11,449	12,023	9,688
Alumina and hydrate ..	186	231	268	323	364	458
Burma—						
Unwrought	456	376	3,284	3,609	<i>n.a.</i>	<i>n.a.</i>
Semi-manufactures (a) ..	2,611	2,719				
Formosa—						
Bauxite	56,282	52,176	88,446	103,087	88,921	<i>n.a.</i>
Foil	7	13	27	18	17	<i>n.a.</i>
Indonesia—						
Semi-manufactures (a) ..	4,150	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Iran (b)—						
Unwrought (a) ..	2,088	2,271	4,066	2,986	6,048	4,547
Semi-manufactures ..	1,484	1,104	1,767	1,381	2,013	2,809
Iraq—						
Unwrought (a) ..	583	207	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Semi-manufactures (a) ..	1,187	1,858	2,768	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Aluminium sulphates ..	4,817	3,543	4,314	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Israel—						
Unwrought and semi-manufactures ..	6,717	5,689	8,089	7,544	9,156	8,044
<i>of which—Foil..</i> ..	50	50	54	122	120	115
Japan—						
Bauxite	1,081,336	1,398,974	1,596,316	1,648,943	1,793,101	2,052,979
Cryolite	3,736	6,310	7,428	6,234	4,883	8,863
Unwrought	17,128	16,434	18,239	23,268	47,504	133,543
do. alloys	361	6,438	15,612	18,741	28,281	29,025
Scrap	11,371	11,786	9,160	4,169	18,792	2,665
do. alloys	5,572	6,448	15,673	5,059		
Semi-manufactures (a) ..	626	824	1,788	925	1,866	3,473
Alumina and hydrate ..	244	49,112	48,269	53,884	96,697	116,721
Jordan—						
Semi-manufactures ..	261	295	156	502	532	386
<i>of which—Foil..</i> ..	61	68	87	238	117	84
Korea (South)—						
Unwrought and semi-manufactures ..	11,618	7,532	3,228	7,282	9,852	12,198
Lebanon—						
Unwrought	818	2,029	2,337	1,406	3,860	3,658
Semi-manufactures ..	759	508	636	570	575	511
Philippine Republic—						
Unwrought	1,856	4,685	4,386	4,215	<i>n.a.</i>	<i>n.a.</i>
Semi-manufactures (a) ..	704	744	937	1,003	<i>n.a.</i>	<i>n.a.</i>
<i>of which—Foil..</i> ..	292	315	269	324	<i>n.a.</i>	<i>n.a.</i>
Aluminium sulphates ..	<i>n.a.</i>	8,713	3,196	1,606	<i>n.a.</i>	<i>n.a.</i>
Syria—						
Unwrought	<i>n.a.</i>	398	287	428	116	69

(a) Including alloys.

(b) Years ending March 20 following that stated.

IMPORTS OF ALUMINIUM, ETC. (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES (cont.)						
Thailand—						
Unwrought (a) ..	1,170	1,625	2,953	1,807	3,853	4,484
Semi-manufactures (a) ..	2,987	3,136	2,311	3,220	2,873	3,434
of which—Foil ..	666	567	740	998	1,010	1,381
Aluminium sulphates ..	685	550	351	702	199	326
Turkey—						
Unwrought (a) ..	1,260	1,197	1,554	5,551	8,102	9,128
Semi-manufactures (a) ..	2,865	2,600	1,616	1,720	2,825	3,925
of which—Foil ..	1,193	1,113	471	873	1,846	2,630
Aluminium sulphates ..	3,207	4,930	3,152	4,687	8,382	1,415
Alumina and hydrate ..	26	33	23	67	56	186

(a) Including alloys.

ANTIMONY
PRODUCTION OF ANTIMONY ORE
(Metal content)

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Rhodesia	46	49	36	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Canada (a)	—	—	—	—	—	—
Pakistan	67	8	81	60	<i>n.a.</i>	<i>n.a.</i>
Sarawak	—	—	70	50	65	31
Australia (b) .. .	66	74	273	35	98	91
OTHER COUNTRIES						
Austria	983	853	879	681	650	679
Czechoslovakia (h) ..	2,000	2,000	2,000	2,000	2,000	2,000
France	—	98	165	119	275	164
Italy	333	237	529	261	261	609
Portugal	—	6	12	11	4	23
Spain	157	58	53	85	92	108
U.S.S.R. (h)	6,000	7,000	7,000	7,000	7,000	7,000
Yugoslavia (c)	2,648	2,619	2,686	2,724	2,603	2,261
Algeria	133	—	—	65	(f) 60	60
Morocco	401	664	1,535	2,165	1,232	1,463
South Africa	10,425	10,983	12,679	12,312	11,191	12,201
Guatemala	39	(e) 28	—	—	14	30
Mexico	4,694	4,750	4,712	4,396	4,407	3,741
United States (d) .. .	563	576	564	754	828	796
Bolivia (g)	7,078	7,443	9,488	8,627	10,499	11,295
Peru (i)	513	601	671	637	662	624
Burma	29	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
China (f)	15,000	15,000	15,000	15,000	15,000	12,000
Japan	169	189	495	180	76	56
Thailand	17	604	1,249	(f) 1,250	1,046	1,010
Turkey	1,530	1,614	1,720	1,643	1,589	1,156
TOTAL*	53,000	55,000	62,000	60,000	60,000	58,000

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

(a) The following figures represent the antimony content of antimonial lead and of flue dust and slags (long tons): 1962—862; 1963—715; 1964—711; 1965—581; 1966—628; 1967—555.

(b) In addition the antimony content of antimonial slag obtained as a by-product of lead refining was as follows (long tons): 1962—808; 1963—933; 1964—843; 1965—909; 1966—873; 1967—810.

(c) Metal.

(d) Secondary metal was recovered as follows (long tons): 1962—17,287; 1963—18,574; 1964—19,946; 1965—21,715; 1966—21,659; 1967—21,129.

(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	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom— Regulus and refined ..	827	1,454	1,079	1,241	751	840
Rhodesia (a)— Ore	179	213	162	207	<i>n.a.</i>	<i>n.a.</i>
Canada— Antimonial lead (<i>Sb content</i>) ..	706	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sarawak— Ore	—	—	—	106	—	—
OTHER COUNTRIES						
Austria— Ore	1,118	806	820	730	383	465
Sulphide	244	317	312	199	262	290
Belgium-Luxemburg E.U.— Oxide	1,251	1,137	1,765	1,609	<i>n.a.</i>	<i>n.a.</i>
France— Ore	—	98	50	—	—	—
Crude and regulus ..	53	262	54	56	38	52
Germany (Federal)— Ore	—	—	—	1	—	106
Regulus, scrap, etc. ..	1,014	769	226	172	205	186
Oxide	136	87	438	<i>n.a.</i>	263	238
Italy— Regulus and scrap ..	2	—	1	1	1	1
Netherlands— Regulus (b)	69	57	55	30	7	9
Oxide	48	19	130	122	31	22
Sweden— Regulus	10	39	34	12	22	11
U.S.S.R.— Regulus	3,800	3,200	4,200	2,700	2,400	1,300
Yugoslavia— Regulus	2,245	2,324	1,921	2,261	1,981	1,720
Algeria— Ore	559	—	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Morocco— Ore	998	1,327	1,838	2,979	3,169	3,272
South Africa— Ore	18,059	19,485	21,722	18,711	17,658	20,437
Mexico— Ore and concentrates ..	11,226	11,720	11,871	11,170	14,264	9,404
Regulus and refined ..	270	316	290	276	316	186
United States— Ore	8	129	346	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Metal and alloys ..	31	14	375	13	26	73
Oxide	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	34	75	148
Bolivia— Ore (<i>Sb content</i>) ..	7,035	7,443	9,488	8,621	10,471	11,287
Regulus	43	—	—	6	27	8
Peru— Ore and metal (<i>Sb content</i>) ..	864	840	978	686	852	886
Burma— Ore	71	21	—	—	<i>n.a.</i>	<i>n.a.</i>
Thailand— Ore	72	852	1,447	1,964	3,146	2,734
Turkey— Ore	2,707	3,722	2,587	3,380	2,863	2,586
Sulphide	<i>n.a.</i>	<i>n.a.</i>	—	220	352	950

(a) Figures for years 1962 and 1963 relate to Rhodesia and Nyasaland.

(b) Including scrap.

IMPORTS OF ANTIMONY, ETC.

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore and concentrates (b)	12,085	11,995	13,989	n.a.	n.a.	n.a.
Zambia (e)—						
Refined and regulus ..	60	110	61	12	81	13
Canada—						
Regulus	570	463	n.a.	n.a.	n.a.	n.a.
Oxide	280	290	317	275	332	237
India—						
Ore	1,376	1,690	1,323	1,675	2,077	1,504
Metal	—	15	59	34	56	17
Oxide (d)	54	39	41	92	65	90
Sulphide (d)	2	2	4	37	n.a.	n.a.
Australia (c)—						
Concentrates	34	44	43	21	—	n.a.
Regulus	156	393	829	251	186	20
OTHER COUNTRIES						
Austria—						
Regulus	128	263	162	94	112	125
Belgium-Luxemburg						
E.U.—						
Regulus (a)	353	238	162	111	102	108
Oxide	143	213	287	88	60	50
Denmark—						
Regulus	379	313	106	106	146	119
France—						
Ore	2,957	853	2,648	1,651	1,497	1,241
Crude and regulus (a) ..	2,141	2,743	2,623	1,700	2,398	2,177
Sulphide	12	6	7	7	11	11
Germany (Federal)—						
Ore	1,623	2,131	2,619	2,749	3,147	2,976
Regulus, scrap, etc. ..	3,545	4,707	3,298	2,707	2,733	2,364
Oxide	246	402	815	n.a.	581	572
Greece—						
Regulus	53	53	18	56	34	28
Italy—						
Ore	n.a.	n.a.	n.a.	15	830	760
Regulus and scrap	412	620	334	430	491	584
Oxide	430	283	226	256	264	298
Sulphide	n.a.	n.a.	n.a.	n.a.	18	25
Netherlands—						
Regulus (a)	336	380	289	230	273	145
Oxide	564	560	590	583	510	485
Norway—						
Regulus	115	90	93	100	43	84
Portugal—						
Sulphide	n.a.	—	1	—	—	—
Spain—						
Ore	580	507	523	696	305	64
Regulus	60	133	151	268	140	288
Oxide	n.a.	190	253	221	307	193
Sweden—						
Regulus	386	439	419	270	340	299
Switzerland—						
Regulus	537	311	349	205	191	266
Yugoslavia—						
Ore	n.a.	n.a.	n.a.	132	160	n.a.

(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 1962 and 1963 relate to Rhodesia and Nyasaland.

IMPORTS OF ANTIMONY, ETC. (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES (cont.)						
Morocco—						
Regulus	30	19	10	12	15	12
South Africa—						
Refined and regulus ..	262	314	n.a.	n.a.	n.a.	n.a.
Cuba—						
Regulus	159	156	110	n.a.	n.a.	n.a.
Mexico—						
Oxide	21	20	18	24	26	18
United States—						
Ore (Sb content) ..	7,681	8,736	9,532	9,250	11,125	10,351
Crude	15	20	28	21	56	n.a.
Regulus	4,214	5,086	2,953	2,366	2,697	2,687
Oxide	2,598	1,865	2,795	1,940	4,807	4,552
Argentina—						
Ore	553	370	497	1,058	427	484
Brazil—						
Ore	53	79	64	269	290	232
Regulus	631	580	157	71	233	69
Oxide	62	36	14	34	111	77
Sulphide	93	139	108	37	106	109
Chile—						
Regulus	8	52	r 33	69	n.a.	n.a.
Colombia—						
Metal	40	66	11	15	20	19
Uruguay—						
Regulus	n.a.	n.a.	n.a.	10	10	4
Venezuela—						
Regulus	6	17	13	21	34	10
Japan—						
Ore and concentrates ..	4,947	6,098	6,398	4,473	7,286	8,927
Regulus	—	158	911	124	305	876
Sulphide	149	270	98	49	20	152

ARSENIC
PRODUCTION OF ARSENIC

Long tons

Producing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Rhodesia—						
White arsenic	1,078	540	184	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Canada—						
White arsenic (a) ..	72	84	145	180	313	268
OTHER COUNTRIES						
France—						
White arsenic	6,676	11,900	11,217	11,944	11,853	13,947
Germany (Federal) (b)—						
White arsenic, etc. ..	67	55	37	69	371	102
Italy—						
Mispickel (<i>As content</i>) ..	265	—	—	—	—	—
White arsenic	125	—	—	—	—	—
Portugal—						
White arsenic	566	555	366	183	191	248
Spain—						
White arsenic	209	143	140	116	110	106
Sweden—						
White arsenic	5,662	14,615	17,686	16,264	14,458	19,901
South West Africa—						
Lead concentrates						
(<i>As content</i>)	—	—	—	—	744	<i>n.a.</i>
White arsenic	—	—	—	—	39	<i>n.a.</i>
Mexico—						
Ores (<i>As₂O₃ content</i>) ..	10,731	9,336	10,992	9,968	11,706	10,464
Brazil—						
White arsenic	147	288	185	252	315	218
Peru—						
White arsenic	511	610	611	492	359	263
Japan—						
White arsenic	903	807	491	471	538	<i>n.a.</i>

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	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Arsenical compounds:						
inorganic	8,166	(a)	(a)	7,849	8,941	6,874
	£539,894	£440,827	£461,045	£519,544	£619,648	£509,060
organic	£113,763	£59,739	£68,143	£52,210	£45,483	£34,464
Canada—						
White arsenic, etc. (b)	—	2	n.a.	n.a.	n.a.	n.a.
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Arsenates and arsenites	313	291	121	127	2	—
France—						
White arsenic	9,690	9,411	9,316	10,211	10,714	12,514
Arsenates	117	98	48	38	49	94
Germany (Federal)—						
White arsenic, etc. ..	67	55	37	69	371	102
Arsenates	194	102	57	59	64	22
Italy—						
White arsenic	20	15	—	41	5	3
Arsenates and arsenites	3	25	104	11	12	4
Netherlands—						
White arsenic	21	13	38	40	2	9
Arsenates and arsenites	21	32	27	3	8	13
Portugal—						
White arsenic	1,075	702	491	349	370	186
Sweden—						
White arsenic	7,719	13,000	13,577	11,692	16,580	n.a.
Metallic arsenic	226	298	344	432	512	n.a.
South West Africa—						
Lead concentrates						
(As content)	—	—	—	—	744	n.a.
White arsenic	—	—	—	—	39	n.a.
Mexico—						
White arsenic, pure ..	6,376	8,515	11,023	9,063	9,260	8,122
do. crude	1,962	125	86	813	1,612	2,416
United States—						
Arsenate of lead	635	358	836	n.a.	n.a.	n.a.
Arsenate of lime	421	83	686	n.a.	n.a.	n.a.
Japan—						
White arsenic	15	2	22	9	42	52

(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	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
White arsenic	6,570	8,806	9,619	10,914	9,918	9,527
Arsenates and arsenites	<i>n.a.</i>	<i>r n.a.</i>	<i>r n.a.</i>	<i>r 3</i>	<i>9</i>	<i>13</i>
Canada—						
Arsenate of lead ..	19	28	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Arsenate of lime ..	84	59	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
India (b)—						
Arsenic and its oxides ..	384	239	524	529	248	556
Malaysia (West)—						
Arsenite of soda ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	7,882	8,157	5,875
Pakistan—						
Arsenic and its oxides ..	32	24	10	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Australia (a)—						
White arsenic	1,695	1,906	1,800	1,729	1,198	1,499
Arsenates and arsenites	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>42</i>	<i>49</i>
New Zealand—						
White arsenic, etc. ..	141	(a) 187	(a) 160	(a) 72	(a) 153	(a) 159
Arsenate of lead ..	31	(a) 34	(a) 40	(a) 26	(a) 23	(a) 30
Other arsenates and arsenites ..	<i>n.a.</i>	(a) 61	(a) 99	(a) 55	(a) 5	(a) 20
OTHER COUNTRIES						
Austria—						
White arsenic, etc. ..	32	33	49	40	46	21
Belgium-Luxemburg						
E.U.—						
White arsenic ..	5	12	72	44	21	20
Denmark—						
White arsenic	15	30	21	15	22	25
Arsenates and arsenites	99	115	158	50	2	2
France—						
Metallic arsenic ..	15	17	33	33	38	16
White arsenic	79	62	79	108	39	5
Germany (Federal)—						
Metallic arsenic ..	27	28	34	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
White arsenic, etc. ..	2,194	1,796	950	1,288	1,151	1,058
Sulphide	1	—	1	—	—	1
Greece—						
White arsenic	53	29	31	32	66	<i>n.a.</i>
Arsenates and arsenites	—	52	59	—	1	<i>n.a.</i>
Italy—						
White arsenic	1,134	1,600	1,600	1,836	1,587	1,461
Metallic arsenic (c)	10	19	21	16	28	61
Arsenates and arsenites	47	27	4	5	12	14
Netherlands—						
White arsenic etc. ..	608	944	840	887	823	950
Arsenates and arsenites	15	26	55	43	19	—
Norway—						
White arsenic	47	63	88	67	69	72
Portugal—						
White arsenic	5	1	—	—	—	—
Arsenate of soda ..	<i>n.a.</i>	1	1	1	12	1
Switzerland—						
White arsenic, etc. ..	99	90	97	78	85	85
Yugoslavia—						
Metallic arsenic ..	—	3	6	8	1	9
White arsenic	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	11	104	250
Arsenates	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	12	17	<i>n.a.</i>
Malagasy Republic—						
Arsenates	9	9	15	20	11	17

(a) Years ended June 30 of that stated.

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

(c) May include some tellurium.

IMPORTS OF ARSENIC, ETC. (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Tunisia—						
Arsenates and arsenites	2	—	1	3	5	6
Mexico—						
White arsenic	1	—	17	—	.	—
United States—						
Metallic arsenic	102	151	137	161	162	263
White arsenic	14,069	12,999	16,237	13,862	16,679	24,186
Sulphide	30	31	25	41	27	258
Arsenate of soda	114	122	143	138	163	113
Argentina—						
White arsenic	780	397	522	329	481	396
Brazil—						
Metallic arsenic	3	5	15	21	7	15
White arsenic	784	743	297	112	256	612
Arsenates	—	7	2	—	5	—
Chile—						
White arsenic	52	119	56	124	<i>n.a.</i>	<i>n.a.</i>
Arsenates	<i>n.a.</i>	23	<i>n.a.</i>	—	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
White arsenic	70	126	39	18	9	23
Uruguay—						
Arsenate of lead	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	10	<i>n.a.</i>
Japan—						
White arsenic	1,500	2,633	2,169	2,526	2,743	2,011
Sulphide	34	35	47	41	30	22
Turkey—						
Arsenic compounds ..	15	10	—	17	26	19

ASBESTOS
PRODUCTION OF ASBESTOS

Long tons

Producing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Botswana	2,156	2,114	1,929	793	—	n.a.
Kenya—						
Anthophyllite	189	70	182	121	65	50
Rhodesia	126,961	127,014	137,010	(b) 164,762	(c) 156,000	n.a.
Swaziland	29,312	29,778	35,591	36,503	32,270	35,852
Canada (a)—						
Chrysotile	1,085,548	1,138,866	1,267,724	1,239,475	1,329,513	1,250,632
Crude	183	194	211	n.a.	n.a.	n.a.
Fibre	488,792	517,040	593,111	n.a.	n.a.	n.a.
Shorts and Waste	596,573	621,632	674,402	n.a.	n.a.	n.a.
Cyprus	19,992	17,823	12,281	15,733	24,519	19,447
India	1,665	2,712	3,313	4,700	6,826	6,903
Australia—						
Chrysotile	826	847	1,577	1,046	560	527
Crocidolite	15,617	11,094	10,614	9,280	11,464	120
New Zealand	408	392	—	—	—	—
Total	1,283,000	1,331,000	1,470,000	1,472,000	1,561,000	1,470,000
OTHER COUNTRIES						
Austria	449	570	—	—	—	—
Bulgaria	1,181	1,181	1,279	1,279	1,772	(c) 1,280
Finland	9,704	9,108	10,367	(e) 11,881	11,830	(c) 11,600
France	25,029	23,298	21,687	9,981	295	—
Greece	—	66	62	—	38	—
Italy	54,339	56,264	67,109	70,441	80,774	99,149
Portugal	—	26	—	47	10	51
U.S.S.R. (c)	630,000	675,000	720,000	770,000	825,000	875,000
Yugoslavia	6,608	8,102	8,286	9,451	7,509	8,866
Egypt	541	171	1,553	2,880	1,837	n.a.
Mozambique	331	—	—	80	n.a.	n.a.
South Africa—						
Amosite	66,860	69,302	68,996	72,085	85,658	84,730
Blue	103,866	88,545	91,424	108,145	128,462	119,901
Chrysotile	26,779	25,829	32,072	34,728	32,841	35,086
Tremolite	86	25	—	—	—	—
United States (d)	47,491	59,282	90,261	105,603	112,436	109,990
Argentina	181	326	484	217	56	n.a.
Bolivia (b)	n.a.	n.a.	n.a.	7	4	2
Venezuela	—	—	—	—	—	n.a.
China (c)	90,000	100,000	120,000	130,000	140,000	150,000
Formosa	468	539	469	788	644	563
Japan—						
Chrysotile	13,756	16,259	16,052	14,688	19,132	n.a.
Korea (South)	1,190	1,893	1,252	1,527	320	2,132
Philippine Republic	926	376	524	—	492	57
Turkey	633	364	1,153	1,228	3,573	3,206
Total*	1,100,000	1,200,000	1,300,000	1,400,000	1,500,000	1,500,000
WORLD'S TOTAL* ..	2,400,000	2,500,000	2,700,000	2,800,000	3,000,000	3,000,000

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

(a) Sales and shipments.

(b) Exports.

(c) United States Bureau of Mines' estimate.

(d) Sold or used by producers.

(e) Fibre.

EXPORTS OF ASBESTOS

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Unmanufactured ..	7,060	8,126	5,703	5,987	4,695	4,246
Packing, etc. ..	10,608	10,468	10,423	11,068	10,718	8,985
Cement products ..	39,448	44,041	57,857	37,607	33,322	31,427
Yarn and cloth ..	3,062	3,544	3,843	3,846	3,927	3,182
Other manufactures ..	16,013	12,018	14,466	13,085	13,147	12,418
Kenya—						
Unmanufactured ..	18	—	—	—	—	—
Rhodesia (e)—						
Unmanufactured ..	129,834	109,926	158,769	164,762	n.a.	n.a.
Cement products ..	(£1,568)	(£180)	(£491,982)	(£634,260)	n.a.	n.a.
Canada—						
Crude	162	174	191	110	154	204
Fibre	475,018	495,910	562,960	563,194	654,094	583,286
Shorts and waste ..	564,704	581,081	627,453	614,736	636,969	614,763
Manufactured ..	(£391,752)	(£492,693)	(£654,355)	(£670,009)	(£786,070)	(£866,527)
Cyprus—						
Unmanufactured ..	13,879	13,460	11,317	17,263	18,888	18,541
India—						
Unmanufactured ..	12	6	8	9	29	68
Manufactured (a) ..	766	119	51	138	70	89
Cement products (a) ..	738	1,021	1,038	444	394	1,587
Malaysia (West)—						
Cement products ..	n.a.	n.a.	n.a.	2,453	2,217	3,869
Other manufactures ..	n.a.	n.a.	n.a.	50	214	39
Singapore—						
Cement products ..	37,010	35,396	36,732	26,400	26,762	15,842
Other manufactures ..	179	248	53	127	136	640
Hong Kong—						
Cement products ..	165	113	—	—	—	—
Australia—						
Unmanufactured ..	8,695	2,347	6,500	4,295	4,146	2,254
Packing (b)	(£43,083)	(£35,015)	(£74,305)	(£141,226)	(£216,215)	(£41,200)
New Zealand—						
Cement products (£N.Z.)	(£2,959)	n.a.	n.a.	n.a.	n.a.	n.a.
OTHER COUNTRIES						
Austria—						
Unmanufactured ..	229	157	15	9	1,674	13
Manufactured (c) ..	1,455	1,641	1,973	2,641	2,482	2,923
Cement products (d) ..	7,693	11,203	10,519	13,376	10,833	5,995
Belgium-Luxemburg						
E.U.—						
Unmanufactured ..	119	391	128	23	43	32
Manufactured (c) ..	2,849	454	478	643	663	598
Cement products (d) ..	214,822	212,442	213,063	210,948	189,675	196,249
Denmark—						
Unmanufactured ..	93	34	67	159	47	59
Manufactured (c) ..	759	785	513	875	726	1,058
Cement products (d) ..	7,229	9,890	7,102	7,447	6,774	6,690
Finland—						
Unmanufactured ..	5,635	5,991	7,435	8,426	8,393	8,709
Manufactured	719	620	725	1,131	570	517

(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 1962 and 1963 exclude exports to Malawi and Zambia.

EXPORTS OF ASBESTOS (cont.)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES (cont.)						
France—						
Unmanufactured ..	9,905	6,076	8,786	4,934	1,899	1,069
Manufactured (a) ..	3,970	4,543	4,408	5,006	4,776	4,519
Cement products (b) ..	52,822	38,570	38,107	33,731	50,758	28,577
Germany (Federal)—						
Unmanufactured ..	364	294	249	271	469	501
Manufactured (a) ..	3,683	3,681	4,301	5,351	6,863	8,085
Cement products (b) ..	22,261	49,445	57,804	36,156	24,957	55,882
Greece—						
Manufactured ..	n.a.	307	949	100	n.a.	505
Italy—						
Unmanufactured ..	7,765	6,310	8,890	25,293	35,370	33,488
Manufactured (a) ..	1,004	4,008	2,378	1,295	1,493	1,085
Cement products (b) ..	60,676	31,970	49,877	42,902	50,518	84,568
Netherlands—						
Unmanufactured ..	57	120	17	92	15	53
Manufactured (a) ..	2,300	2,151	2,462	1,899	2,271	2,564
Cement products (b) ..	6,644	8,069	7,906	5,627	4,030	3,485
Portugal—						
Unmanufactured ..	92	44	2	41	18	57
Manufactured ..	748	447	552	664	1,134	919
Spain—						
Manufactured (a) ..	38	22	141	268	406	488
Cement products (b) ..	355	288	277	1,893	303	1,610
Sweden—						
Unmanufactured ..	12	53	134	13	55	22
Manufactured (a) ..	113	93	111	166	150	66
Cement products ..	15,346	17,279	22,517	20,005	23,028	25,115
Switzerland—						
Unmanufactured ..	20	99	57	71	84	73
Manufactured (a) ..	520	160	233	71	250	261
Cement products (b) ..	2,319	2,939	3,523	5,837	3,193	1,572
U.S.S.R.—						
Unmanufactured ..	166,400	177,300	208,800	244,500	252,700	280,696
Yugoslavia—						
Unmanufactured ..	5,296	5,376	4,264	4,387	2,533	1,634
Manufactured ..	131	255	1,726	1,108	1,181	1,378
Cement products ..	107	503	500	6,626	24,410	6,194
Morocco—						
Cement products ..	11,261	9,095	10,561	14,849	5,463	6,381
Mozambique—						
Unmanufactured ..	39	—	—	143	106	n.a.
South Africa—						
Unmanufactured (c) ..	182,715	184,244	223,350	221,121	229,827	259,257
Cement products ..	(£286,208)	(£275,902)	(£157,338)	(£272,288)	5,143	10,385
Other manufactures ..	(£12,340)	(£24,173)	(£105,688)	(£94,663)	(£186,849)	(£196,792)
United States—						
Unmanufactured ..	2,521	8,909	24,000	38,388	41,687	46,608
Spun, woven and packing ..	1,298	1,336	1,357	2,255	3,195	4,469
Brake linings ..	(£1,653,325)	(£1,745,765)	(£1,721,809)	(£1,690,816)	(£1,874,550)	(£2,110,857)
Clutch facings ..	(£555,751)	(£628,845)	(£659,061)	(£604,603)	(£679,149)	(£844,488)
Pipe covering and cement ..	2,580	3,661	n.a.	10,327	13,171	21,406
Other manufactures ..	8,093	12,026	11,596	(£2,192,335)	(£1,811,000)	(£1,580,900)
Bolivia—						
Unmanufactured ..	n.a.	n.a.	n.a.	7	4	2
Colombia—						
Cement products ..	553	2,291	4,358	1,977	17,316	16,700
Peru—						
Manufactured ..	116	—	31	4	—	15

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

(b) Including manufactures of other fibro-cements.

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

EXPORTS OF ASBESTOS (*cont.*)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Venezuela—						
Unmanufactured ..	—	—	7	—	—	—
Formosa—						
Unmanufactured ..	<i>n.a.</i>	34	50	86	68	<i>n.a.</i>
Manufactured ..	<i>n.a.</i>	213	828	16	185	<i>n.a.</i>
Japan—						
Unmanufactured ..	24	106	53	757	700	326
Manufactured ..	2,160	3,633	4,134	3,332	4,656	3,877
Cement products ..	371	21,812	15,942	47,980	37,696	15,254
Lebanon—						
Cement products ..	17,800	14,485	15,021	27,123	28,576	26,984
Thailand—						
Cement products ..	1,013	3,461	<i>n.a.</i>	<i>n.a.</i>	812	<i>n.a.</i>
Turkey—						
Unmanufactured ..	—	—	—	—	591	—

IMPORTS OF ASBESTOS

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Unmanufactured—						
Crude and fibre ..	133,656	144,074	160,626	157,782	178,561	160,173
Waste	11,261	13,362	22,759	18,149	10,659	6,996
Manufactured ..	3,967	541	922	709	569	1,991
Cement products ..	17,010	18,058	22,564	27,292	26,071	29,587
Channel Islands—						
Manufactured	1,593	1,738	2,696	2,594	1,314	2,323
Malta—						
Manufactured	(£29,433)	(£8,262)	(£13,837)	(£14,367)	(£13,560)	(£22,612)
Gambia—						
Cement sheets and pipes	294	551	534	594	624	311
Ghana—						
Cement sheets, pipes etc.	15,354	22,663	20,144	18,042	18,222	10,594
Kenya—						
Manufactured	1,376	2,119	902	976	1,906	4,180
Mauritius—						
Manufactured	1,856	346	877	1,244	2,252	1,164
Nigeria—						
Cement sheets and pipes	18,836	8,218	7,558	8,478	5,885	1,230
Unmanufactured ..	n.a.	894	1,643	3,744	4,521	9,708
Sierra Leone—						
Cement sheets and pipes	621	870	288	—	1,920	n.a.
Tanzania—						
Manufactured	1,112	618	918	535	2,651	1,420
Uganda—						
Unmanufactured ..	652	376	736	860	1,416	764
Manufactured	407	715	619	400	819	841
Zambia (a)—						
Unmanufactured ..	n.a.	n.a.	1,175	913	1,106	759
Cement products ..	(£89,005)	(£33,430)	(£442,007)	(£411,686)	(£403,620)	(£276,486)
Canada—						
Unmanufactured ..	n.a.	n.a.	8,230	6,142	5,857	6,512
Packing	194	238	325	342	425	628
Other manufactures ..	(£1,389,038)	(£1,582,563)	(£1,811,982)	(£1,922,075)	(£1,996,352)	(£2,829,464)
Barbados—						
Manufactured	27	20	31	30	48	17
Bermuda—						
Sheets, etc.	(£14,542)	(£12,261)	(£10,101)	(£13,780)	(£12,424)	(£13,752)
Grenada—						
Manufactured	2	7	2	4	1	7
Jamaica—						
Unmanufactured ..	21	114	171	349	182	539
Manufactured	174	348	546	369	159	285
Cement products ..	2,467	1,093	446	2,858	1,952	363
St. Vincent—						
Cement products ..	18	n.a.	n.a.	3	7	11
Trinidad and Tobago—						
Cement products ..	230	891	159	498	706	99
Other manufactures ..	602	599	507	821	1,880	638
Guyana—						
Cement products ..	1,336	n.a.	900	1,990	453	407
Other manufactures ..	100	n.a.	177			
Brunei—						
Cement products ..	n.a.	n.a.	1,434	1,203	1,227	865
Ceylon—						
Unmanufactured ..	—	—	463	693	—	1,766
Cement sheets, etc. ..	2,223	3,757	158	9	6	91
Other manufactures ..	30	28	777	4,385	4,352	1,820
Cyprus—						
Sheets and pipes ..	4,009	4,585	2,689	4,080	4,336	6,458
Other manufactures ..	(£29,204)	(£34,516)	(£33,539)	(£88,458)	(£47,711)	(£50,049)

(a) Figures for years 1962 and 1963 relate to Rhodesia and Nyasaland.

IMPORTS OF ASBESTOS (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES (cont.)						
Hong Kong—						
Unmanufactured ..	16	9	(a) 1	235	362	144
Manufactured ..	275	295	(£103,632)	(£144,149)	(£100,887)	(£130,598)
Cement products ..	27,329	34,578	11,115	8,057	5,903	5,186
India—						
Unmanufactured ..	22,023	36,374	35,222	37,219	29,482	29,315
Manufactured (b) ..	921	1,661	1,768	2,669	768	547
Cement products (b) ..	1,589	2,038	180	162	83	132
Malaysia (West)—						
Unmanufactured ..	n.a.	n.a.	n.a.	7,787	8,837	10,922
Cement products ..	n.a.	n.a.	n.a.	14,619	11,836	4,441
Other manufactures ..	n.a.	n.a.	n.a.	351	678	1,456
Pakistan—						
Cement sheets ..	1,656	519	134	n.a.	n.a.	n.a.
Sabah—						
Manufactured ..	3	17	10	22	18	13
Cement products ..	n.a.	3,647	3,587	3,778	2,976	3,328
Sarawak—						
Cement products ..	1,198	1,450	3,786	6,420	5,159	4,425
Other manufactures ..	43	4	14	12	13	15
Singapore—						
Unmanufactured ..	4,949	6,532	8,216	4,778	3,617	4,367
Cement products ..	10,226	13,379	10,689	6,509	3,963	3,821
Other manufactures ..	427	450	448	747	1,012	1,361
Australia—						
Unmanufactured ..	34,915	32,704	38,299	46,179	49,243	46,950
Packing, etc. (a) ..	(£412,965)	(£490,708)	(£594,958)	(£665,094)	f(£681,000)	f(£873,200)
New Zealand—						
Unmanufactured ..	5,830	5,671	(a) 5,468	(a) 7,566	(a) 7,618	(a) 7,950
Manufactured (£N.Z.) ..	(£191,024)	} (£487,654)	a(£283,897)	a(£314,762)	{ (a) (£606,447)	(a) (£586,898)
Cement products (£N.Z.) ..	(£118,568)						{ (a) (£78,413)	(a) (£71,358)
Irish Republic—						
Unmanufactured ..	3,344	3,111	3,218	5,009	5,938	4,806
Manufactured ..	2,232	3,021	1,419	1,566	1,297	1,172
OTHER COUNTRIES						
Austria—						
Unmanufactured ..	15,766	20,986	21,091	30,611	33,629	17,199
Manufactured (c) ..	249	345	504	579	830	713
Cement products (d) ..	3,919	5,766	7,537	8,715	12,899	9,902
Belgium-Luxemburg						
E.U.—						
Unmanufactured ..	54,627	48,972	55,026	60,062	51,685	54,893
Manufactured (c) ..	2,950	2,414	2,884	2,720	2,680	2,656
Cement products (d) ..	7,415	9,561	6,919	2,524	2,035	2,692
Czechoslovakia—						
Unmanufactured ..	27,860	22,307	24,130	27,126	32,475	n.a.
Denmark—						
Unmanufactured ..	20,781	17,142	19,126	26,169	20,440	23,122
Manufactured (c) ..	1,908	1,860	1,702	2,431	1,931	1,540
Cement products (d) ..	6,856	1,055	7,338	12,945	2,233	8,617
Finland—						
Unmanufactured ..	6,758	5,991	6,648	7,360	6,292	6,329
Manufactured ..	740	620	795	1,825	749	1,362
France—						
Unmanufactured ..	95,881	73,353	107,811	104,981	122,476	124,741
Manufactured (c) ..	1,904	2,535	2,413	3,355	3,138	2,967
Cement products (d) ..	7,302	18,102	38,692	31,101	57,054	120,298

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

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

(d) Including manufactures of other fibro-cements.

(e) Excess of re-exports.

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

IMPORTS OF ASBESTOS (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (Federal)—						
Unmanufactured ..	126,123	141,169	140,556	170,733	166,738	123,812
Manufactured (a) ..	5,426	6,834	7,885	8,657	8,181	6,572
Cement products (b) ..	88,023	96,652	92,976	109,043	104,517	88,551
Greece—						
Unmanufactured ..	3,333	2,771	4,879	4,397	3,849	5,427
Manufactured (a) (c) ..	6,914	4,910	3,028	4,561	3,806	5,009
Hungary—						
Unmanufactured ..	10,852	14,320	14,744	10,533	14,449	13,891
Iceland—						
Unmanufactured ..	24	11	5	7	15	7
Manufactured ..	29	77	189	178	148	205
Italy—						
Unmanufactured ..	40,197	38,145	44,505	38,029	42,931	44,712
Manufactured (a) ..	3,631	1,745	3,567	3,235	4,029	4,288
Cement products (b) ..	11,408	14,452	14,554	12,494	13,878	11,074
Netherlands—						
Unmanufactured ..	16,700	16,381	22,908	18,632	16,759	17,802
Manufactured (a) ..	2,979	2,986	4,579	3,841	5,251	4,922
Cement products (b) ..	71,360	30,712	110,011	112,534	101,914	92,732
Norway—						
Unmanufactured ..	5,148	3,474	5,786	5,018	5,492	5,593
Manufactured (a) ..	1,722	1,350	1,828	1,813	1,887	2,167
Cement products (b) ..	9,481	13,534	13,346	12,855	13,778	14,862
Poland—						
Unmanufactured ..	<i>n.a.</i>	21,028	21,359	32,000	41,691	41,959
Portugal—						
Unmanufactured ..	2,676	1,817	2,472	3,816	4,032	4,233
Manufactured (a) ..	391	367	363	434	516	568
Spain—						
Unmanufactured ..	27,412	39,309	50,696	48,433	74,328	46,750
Manufactured (a) (b) ..	752	1,593	2,525	2,627	2,813	2,426
Sweden—						
Unmanufactured ..	18,555	15,377	19,446	20,828	19,288	13,320
Manufactured (a) ..	3,949	3,428	3,464	4,265	4,257	4,067
Cement products ..	17,902	16,676	13,513	12,527	7,546	10,399
Switzerland—						
Unmanufactured ..	11,931	11,190	12,330	14,436	15,523	12,511
Manufactured (a) ..	2,488	2,277	3,147	3,026	2,399	2,379
Cement products (b) ..	7,691	3,537	5,690	2,230	2,030	1,932
Yugoslavia—						
Unmanufactured ..	9,181	7,975	15,329	12,750	13,165	18,349
Manufactured ..	691	563	595	405	617	633
Cement products ..	49	184	639	21	6,883	12,196
Angola—						
Unmanufactured ..	491	575	992	1,342	1,330	1,425
Manufactured (a) ..	85	97	166	281	284	154
Egypt—						
Unmanufactured ..	9,402	7,736	3,360	4,533	6,709	<i>n.a.</i>
Manufactured ..	1,807	699	518	407	560	<i>n.a.</i>
Libya—						
Manufactured ..	838	220	22	55	72	53
Malagasy Republic—						
Manufactured (a) ..	99	74	85	70	55	89
Cement products ..	1,949	604	716	490	637	670
Morocco—						
Unmanufactured ..	2,178	2,316	1,964	2,640	2,455	2,104
Manufactured (a) ..	138	166	129	147	150	187
Cement products ..	83	163	80	1	1	2

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

(b) Including manufactures of other fibro-cements.

(c) Including cement products.

IMPORTS OF ASBESTOS (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Mozambique—						
Unmanufactured ..	605	495	450	863	992	n.a.
Manufactured ..	23	25	49	52	58	n.a.
South Africa—						
Unmanufactured ..	n.a.	n.a.	4,489	8,467	11,128	15,421
Packing ..	(£260,893)	(£263,760)	(d)	(d)	(d)	(d)
Cement products ..	(£7,550)	(£15,582)	(£41,476)	(£272,288)	845	595
Other manufactures ..	(£29,075)	(£10,981)	(£940,489)	(£1,038,571)	(£832,609)	(£616,314)
Sudan—						
Manufactured ..	5,801	n.a.	n.a.	n.a.	n.a.	3
Tunisia—						
Unmanufactured ..	5	3	279	400	2,934	2,131
Manufactured (a) ..	72	67	179	100	146	96
Cement products (b) ..	8,395	8,314	12,917	5,838	3,475	628
Costa Rica—						
Manufactured ..	60	68	77	75	125	163
Cuba—						
Manufactured ..	2,885	2,734	4,724	n.a.	n.a.	n.a.
Cement ..	4,356	4,928	5,970	n.a.	n.a.	n.a.
Guatemala—						
Unmanufactured ..	469	282	453	983	545	541
Manufactured (c) ..	77	191	103	140	297	157
Honduras—						
Manufactured ..	35	35	82	48	61	64
Mexico—						
Unmanufactured ..	11,508	19,668	23,715	21,140	25,123	30,085
Manufactured ..	632	823	444	869	646	318
Netherlands Antilles—						
Manufactured ..	313	313	266	166	145	217
Cement sheets ..	2,976	3,028	2,104	2,270	2,741	2,084
Nicaragua—						
Manufactured ..	55	32	55	146	69	56
Panama Republic—						
Cement products ..	77	355	522	6	n.a.	n.a.
Salvador—						
Unmanufactured ..	406	827	813	781	1,222	679
Manufactured ..	4	104	84	122	152	6
United States—						
Unmanufactured—						
Crude ..	40,743	37,832	660,144	49,500	56,419	575,993
Mill fibre ..	13,266	12,784		15,508	15,783	
Other ..	549,587	545,687		577,456	576,422	
Manufactured ..	38,584	34,605	43,357	42,800	32,296	n.a.
Argentina—						
Unmanufactured and manufactured ..	11,598	9,544	12,866	15,396	13,655	14,251
Brazil—						
Unmanufactured ..	11,040	19,887	13,123	14,912	18,648	17,227
Manufactured ..	546	508	611	240	659	383
Chile—						
Manufactured ..	4,898	9,241	7,225	6,081	n.a.	n.a.
Colombia—						
Unmanufactured ..	10,909	12,729	7,886	8,818	16,033	13,535
Manufactured ..	822	1,043	1,212	407	708	383
Cement products ..	14,882	—	383	1	1	—
Ecuador—						
Unmanufactured ..	384	319	755	939	n.a.	n.a.
Manufactured ..	217	202	376	684	n.a.	n.a.

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

(b) Including manufactures of other fibro-cements.

(c) Including cement products.

(d) Included with "other manufactures".

IMPORTS OF ASBESTOS (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Peru—						
Unmanufactured ..	2,377	2,570	2,861	4,464	3,477	4,098
Manufactured ..	1,049	445	588	757	355	405
Surinam—						
Manufactured ..	744	720	1,135	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Uruguay ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,276	1,360	1,077
Venezuela—						
Unmanufactured ..	3,398	2,584	4,643	4,248	5,233	4,932
Manufactured ..	568	684	829	488	430	388
Cement products ..	1,694	20,644	5,294	2,442	9,246	18,379
Burma—						
Unmanufactured ..	493	531	1,166	1,871	<i>n.a.</i>	<i>n.a.</i>
Cement products ..	4	560	6	18	<i>n.a.</i>	<i>n.a.</i>
Formosa—						
Unmanufactured ..	1,400	876	1,032	1,604	2,329	<i>n.a.</i>
Manufactured ..	211	249	385	468	428	<i>n.a.</i>
Iran (a)—						
Unmanufactured ..	759	1,200	2,258	3,289	4,611	5,713
Manufactured ..	377	123	136	147	348	431
Cement products ..	10,553	1,079	895	1,686	1,022	394
Iraq—						
Unmanufactured ..	1,456	817	2,740	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Manufactured ..	277	139	170	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Cement products ..	93	10	99	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Israel—						
Unmanufactured ..	8,031	9,156	7,438	8,325	5,759	4,202
Japan—						
Unmanufactured ..	95,147	113,668	141,695	131,413	233,586	185,760
Manufactured ..	622	1,092	1,099	958	1,294	1,141
Cement products ..	5	336	151	338	972	228
Jordan—						
Manufactured ..	354	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	552	929
Korea (South)—						
Unmanufactured ..	<i>n.a.</i>	2,490	3,055	6,284	11,880	21,685
Lebanon—						
Unmanufactured ..	4,027	2,569	3,934	3,843	4,445	4,944
Manufactured ..	65	123	89	96	181	156
Cement products ..	290	368	221	703	373	78
Philippine Republic—						
Unmanufactured ..	931	1,332	1,864	1,268	<i>n.a.</i>	<i>n.a.</i>
Manufactured ..	57	124	122	111	<i>n.a.</i>	<i>n.a.</i>
Cement products ..	325	298	71	115	<i>n.a.</i>	<i>n.a.</i>
Syria—						
Cement sheets ..	4,824	4,508	4,969	4,060	4,862	4,111
Other manufactures ..	73	22	69	28	148	100
Thailand—						
Unmanufactured ..	5,311	7,895	7,742	8,226	16,333	20,132
Manufactured ..	360	997	554	632	862	859
Cement products ..	3,922	4,031	4,871	5,001	8,077	2,752
Turkey—						
Unmanufactured ..	1,492	1,234	2,416	2,612	6,567	5,791
Manufactured ..	811	3,518	1,027	393	501	648
Cement products ..	146	119	7,980	35	95	14

(a) Years ended March 20 following that stated.

BARIUM MINERALS

PRODUCTION OF BARIUM MINERALS*

Long tons

Producing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Barytes and witherite,						
unground	33,784	22,000	24,000	—	—	—
do. ground	41,889	33,369	37,000	37,000	32,000	32,000
Kenya	—	—	—	35	96	209
Rhodesia	859	1,744	1,394	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Swaziland	61	83	15	483	1,027	556
Canada	202,321	154,913	151,026	181,272	197,657	153,812
India	24,089	37,279	46,217	47,520	51,777	50,890
Pakistan	2,825	4,841	11,817	8,696	—	(c) 10,000
Australia	12,534	8,220	12,302	11,976	13,726	15,720
Irish Republic	20	9,100	40,386	92,226	122,000	74,940
OTHER COUNTRIES						
Austria	1,064	2,139	1,241	2,297	2,756	2,389
France	82,652	73,284	82,497	102,440	97,556	108,000
Germany (Federal)	457,349	449,492	460,081	461,941	444,124	403,187
Greece	70,278	142,280	116,714	129,286	128,000	148,000
Italy	119,621	101,990	103,091	140,758	169,988	151,633
Poland	44,501	44,979	(c) 45,000	(c) 45,000	(c) 46,000	(c) 46,000
Portugal	1,330	1,632	343	r 1,070	1,000	311
Spain	38,324	47,600	58,199	54,589	<i>n.a.</i>	<i>n.a.</i>
U.S.S.R. (c)	180,000	200,000	200,000	210,000	220,000	260,000
Yugoslavia (a)	86,570	74,944	71,725	61,625	47,127	44,318
Algeria	27,146	28,947	29,165	42,091	(c) 73,839	(c) 78,571
Egypt	1,210	4,058	4,479	15,111	6,692	<i>n.a.</i>
Morocco	88,375	93,061	88,425	102,239	104,577	89,088
South Africa	1,672	2,414	2,531	1,319	6,085	1,470
Mexico	313,113	252,540	328,768	362,524	286,979	219,754
United States	791,932	717,059	729,202	755,050	899,076	842,930
Argentina	12,338	16,433	13,488	16,744	17,703	<i>n.a.</i>
Brazil	53,787	33,572	33,007	63,344	64,262	84,647
Chile	1,032	1,003	1,074	2,806	2,006	<i>n.a.</i>
Colombia	8,000	10,500	10,000	8,700	(c) 8,800	<i>n.a.</i>
Peru	112,742	122,819	123,439	109,022	115,000	110,000
Uruguay	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Burma	3,984	—	—	(c) 3,000	<i>n.a.</i>	<i>n.a.</i>
China (c)	80,000	90,000	100,000	100,000	120,000	100,000
Iran (b)	14,763	(c) 15,000	42,321	(c) r 61,000	(c) 61,000	(c) 61,000
Japan	37,514	36,928	39,116	41,612	39,702	36,979
Korea (South)	905	2,714	2,700	1,267	19	—
Korea (North) (c)	60,000	65,000	65,000	80,000	80,000	100,000
Philippine Republic	409	900	1,453	—	2	<i>n.a.</i>
Turkey	1,870	966	5,954	11,791	16,833	30,163
TOTAL†	3,000,000	2,900,000	3,100,000	3,300,000	3,500,000	3,300,000

*Barytes unless otherwise stated.

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

(a) Exports.

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

(c) United States Bureau of Mines' estimate.

(d) Estimated.

EXPORTS OF BARIUM MINERALS, ETC.*

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom— Barium compounds, excluding blanc fixe ..	4,935	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Canada— Barytes	206,163	142,761	139,756	165,207	177,727	130,449
India— Unground barytes ..	5,419	9,048	7,834	4,791	2,718	6,503
Australia— Ground barytes ..	1,663	2,600	6,209	2,183	4,797	4,174
Irish Republic— Unground barytes ..	830	10,228	31,939	95,686	127,827	73,584
OTHER COUNTRIES						
Austria— Barytes	—	20	6	—	1	60
Belgium-Luxemburg E.U.— Barytes and witherite .. } Barytes, ground .. } Sulphate } Carbonate } Chloride }	23 471 — 20	22 328 — 26	191 121 30 —	209 20 4 25	133 77 — —	45 79 — —
France— Barytes Witherite Chloride Carbonate Sulphate Sulphide	18,063 — 6,666 4,206 645 11	10,704 2 7,639 3,230 651 3	15,907 3 6,922 2,723 1,023 5	13,774 49 8,206 3,154 927 —	12,695 3 10,079 1,200 1,899 —	17,848 21 11,449 1,566 2,619 —
Germany (Federal)— Barytes and witherite .. Carbonate Chloride Sulphate	98,221 12,139 3,050 18,402	102,355 12,533 3,590 18,533	121,560 15,097 4,401 19,945	111,541 26,634 3,447 18,559	112,746 29,132 <i>n.a.</i> 18,839	107,209 27,570 <i>n.a.</i> 21,726
Greece— Barytes	60,829	76,511	65,854	49,816	47,552	61,855
Italy— Barytes Witherite Carbonate Chloride Sulphate	45,944 90 1,697 1,422 571	22,025 30 735 1,243 138	11,009 — 694 885 104	32,223 64 2,209 1,462 93	17,323 73 2,015 4,739 290	40,256 — 1,096 6,065 119
Netherlands— Barytes Carbonate Chloride Sulphate Sulphide	8 41 23 1,489 3,495	10 483 24 2,394 —	278 622 154 2,559 2,919	584 535 92 1,530 79	1,161 706 184 2,605 —	1,696 109 64 2,633 —
Poland— Barytes	<i>n.a.</i>	39	814	532	189	<i>n.a.</i>
Portugal— Barytes	5	4	107	20	979	6
Spain— Barytes Carbonate	39,461 279	27,293 512	55,779 214	49,147 380	48,265 280	22,787 177
Sweden— Barytes and witherite ..	—	6	—	—	—	—
Yugoslavia— Unground barytes .. Ground barytes ..	70,861 15,709	59,735 15,209	54,601 17,124	45,450 16,175	31,164 15,963	29,771 14,547

*For Lithopone, see "Zinc".

EXPORTS OF BARIUM MINERALS, ETC. (cont.)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
(cont.)						
Algeria—						
Barytes	974	1,102	8,267	6,008	9,350	<i>n.a.</i>
Morocco—						
Barytes	66,010	80,813	71,695	106,234	96,750	87,708
South Africa—						
Barytes	<i>n.a.</i>	<i>n.a.</i>	132	4	—	—
Mexico—						
Barytes	216,270	144,371	174,259	216,067	188,535	117,280
Argentina—						
Barytes	626	25	54	59	229	10
Brazil—						
Barytes	50,196	26,684	57,958	21,738	47,998	48,293
Peru—						
Barytes	83,341	15,249	124,968	106,246	23,276	66,374
Japan—						
Barytes	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	49	1,198	1,636
Chloride	9	16	135	285	1,652	1,809
Sulphate	49	74	77	2,050	77	291
Korea (South)—						
Barytes	294	1,661	2,560	1,096	—	—
Turkey—						
Barytes	<i>n.a.</i>	<i>n.a.</i>	—	3	1,162	270

IMPORTS OF BARIUM MINERALS, ETC.*

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Unground barytes	19,073	20,689	37,787	54,481	47,100	30,647
Ground barytes	8,369	7,330	8,817	12,598	9,790	20,208
Canada—						
Barytes	2,158	3,420	2,862	3,291	3,719	5,289
Blanc fixe	1,032	894	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Carbonate	—	—	3,876	5,723	3,235	3,528
Trinidad and Tobago—						
Barytes	42,230	40,403	51,711	27,296	50,358	44,106
India (a)—						
Barytes	8	3	4	11	—	9
Carbonate	1,064	1,254	611	333	9	11
Chloride	787	526	402	627	1	23
Sulphate	58	132	110	252	135	198
Pakistan—						
Barytes	82	9	110	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Australia (b)—						
Witherite	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	79	78
Barytes ground	—	—	—	636	319	299
Barytes unground	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,571	1,108	1,169
Carbonate	371	539	661	547	598	920
Chloride	220	248	286	197	691	1,564
Sulphate incl. blanc fixe	261	330	269	331	282	297
New Zealand—						
Barytes and witherite	1,116	(b) 621	(b) 1,229	(b) 780	(b) 1,000	(b) 2,267
OTHER COUNTRIES						
Austria—						
Barytes	8,424	8,242	8,421	8,347	5,860	7,280
Carbonate	447	628	659	731	857	1,128
Chloride	291	281	327	365	330	286
Sulphate	273	225	376	478	404	442
Belgium-Luxemburg						
E.U.—						
Barytes and witherite	29,276	26,783	23,463	25,236	14,677	58,888
Barytes, ground						
Sulphate						
Carbonate						
Chloride						
Sulphide	3,442	3,398	2,929	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Denmark—						
Barytes	615	726	654	612	1,122	1,912
Carbonate	302	457	642	629	533	556
Chloride	140	169	186	189	201	228
Sulphate	298	381	362	814	1,514	210
Finland—						
Barytes	455	451	627	592	508	636
Witherite						
Chloride						
Carbonate						
Sulphate						
Sulphate	880	1,043	1,408	1,270	1,616	1,282
France—						
Barytes	50,912	65,384	66,626	73,250	81,625	87,278
Witherite	3	5	1	16	2	9
Chloride	—	3	447	380	2	947
Carbonate	2	9	111	142	415	823
Sulphate	714	824	1,156	1,105	1,357	1,681

*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	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES (cont.)						
Germany (Federal)—						
Barytes and witherite ..	1,094	5,761	44,972	53,190	29,364	38,660
Carbonate	246	497	2,234	3,815	3,648	3,081
Chloride	867	745	802	1,890	<i>n.a.</i>	<i>n.a.</i>
Sulphate	78	153	190	128	307	446
Greece—						
Sulphate	230	329	292	283	330	367
Iceland—						
Sulphate	21	17	22	21	43	59
Italy—						
Barytes	19,099	21,224	27,418	18,429	40,328	6,552
Witherite	24	31	2	185	—	22
Carbonate	79	167	118	1,457	79	49
Chloride	—	13	24	12	71	1
Sulphate	848	990	1,202	1,274	1,623	1,662
Netherlands—						
Barytes and witherite ..	22,296	14,088	36,485	28,702	27,853	20,819
Barytes, ground						
Carbonate						
Chloride						
Chloride	216	335	407	396	321	334
Sulphate	1,032	1,079	1,036	872	975	953
Norway—						
Barytes	354	616	532	454	1,887	1,168
Carbonate	336	337	463	485	484	563
Chloride	186	166	243	416	321	308
Sulphate	122	158	97	69	76	107
Poland—						
Barytes	<i>n.a.</i>	8,760	5,125	6,912	9,729	26,082
Portugal—						
Barytes	87	65	181	197	231	293
Chloride	96	5	1	5	6	3
Sulphate	191	184	212	273	176	108
Spain—						
Barytes	4	398	96	379	494	341
Sulphate	2	47	72	133	218	331
Sweden—						
Barytes and witherite ..	1,643	1,274	1,644	1,848	1,457	1,660
Carbonate	2,226	1,743	2,819	2,826	3,118	3,017
Chloride	237	248	296	372	280	497
Sulphate	1,822	2,234	2,351	2,640	2,399	2,790
Switzerland—						
Barytes	2,470	1,920	1,989	4,683	3,325	2,214
Sulphate	1,814	1,788	1,505	1,768	1,825	1,617
U.S.S.R.—						
Barytes	79,500	104,500	96,100	103,500	139,500	140,839
Malagasy Republic—						
Barytes and witherite ..	<i>n.a.</i>	—	2	64	—	5
Morocco—						
Barytes	11	12	15	4	1	<i>n.a.</i>
South Africa—						
Barytes	2,076	1,989	2,376	3,091	3,005	2,826
Barium compounds	342	303	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Tunisia—						
Barytes	2,163	1,416	4,281	10,009	1,172	2,845
Mexico—						
Barytes	660	548	442	634	445	454
Carbonate	286	483	674	697	877	484
Chloride	451	420	500	735	599	371
United States—						
Unground barytes	657,793	516,159	535,669	635,931	624,000	524,000
Ground barytes	124	264	947	420	—	—
Witherite	1,341	2,482	2,171	2,317	1,989	1,265

IMPORTS OF BARIUM MINERALS, ETC. (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
United States <i>(cont.)</i> —						
Carbonate	1,340	748	929	737	1,027	800
Chloride	1,027	1,029	1,012	794	1,104	964
Sulphate	1,539	1,430	2,066	1,450	2,415	2,213
Argentina—						
Barytes	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	62	—
Sulphate	336	16	58	378	142	204
Barium compounds ..	106	150	139	19	6	—
Brazil—						
Barytes	27	35	24	30	45	7
Carbonate	1,385	866	939	1,359	2,140	3,598
Chloride	602	982	383	983	1,051	863
Sulphate	560	588	392	530	340	295
Chile—						
Barytes	1,142	51	<i>n.a.</i>	2,376	<i>n.a.</i>	<i>n.a.</i>
Carbonate	176	199	<i>r</i> 33	79	<i>n.a.</i>	<i>n.a.</i>
Chloride	20	—	<i>r</i> 5	—	<i>n.a.</i>	<i>n.a.</i>
Sulphate	232	7	<i>r</i> 17	3	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Barytes	—	—	—	1	—	—
Witherite	1	—	—	—	—	—
Carbonate	219	106	91	135	176	273
Chloride	67	55	84	33	54	42
Sulphate	9	17	20	7	42	105
Ecuador—						
Sulphate	10	305	579	447	<i>n.a.</i>	<i>n.a.</i>
Peru—						
Barytes and witherite ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	89	96	<i>n.a.</i>
Carbonate	200	131	107	94	96	279
Chloride	96	90	127	90	36	90
Sulphate	15	44	44	65	35	27
Uruguay—						
Sulphate	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	56	32	10
Venezuela—						
Barytes	3,500	53	17,058	17,124	12,009	8,040
Carbonate	33	25	40	55	35	62
Chloride	229	453	218	352	56	263
Sulphate	56	87	121	104	79	171
Formosa—						
Carbonate	49	54	136	182	98	<i>n.a.</i>
Chloride	37	42	35	30	64	<i>n.a.</i>
Iraq—						
Barytes	218	32	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Israel—						
Barytes	200	476	455	425	518	991
Japan—						
Barytes	5,797	5,811	11,164	14,084	38,552	33,259
Lebanon—						
Barytes and witherite ..	52	227	206	20	7	31
Turkey—						
Barytes	6	10	2,416	197	730	—
Carbonate	98	61	9	62	123	86
Chloride	160	1	108	162	270	133
Sulphate	973	741	42	40	94	—

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

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Tanzania	—	—	5	—	50	200
Cyprus (a)	—	536	1,528	3,190	2,658	4,539
India	(b) 14,000	r 29,133	21,176	n.a.	n.a.	n.a.
Pakistan	393	n.a.	n.a.	n.a.	n.a.	n.a.
Australia—						
Bentonite	211	197	158	160	159	95
Bentonitic clay	573	1,333	841	1,027	667	262
New Zealand	1,488	1,660	1,806	2,926	2,416	3,053
OTHER COUNTRIES						
Austria	3,178	2,744	3,072	3,973	1,660	945
Greece	20,352	34,788	97,736	112,096	89,096	118,000
Hungary	82,780	110,917	96,830	105,000	90,000	83,000
Italy	125,465	157,586	129,665	149,965	206,427	240,723
Spain	11,975	13,945	14,239	17,597	23,593	n.a.
Yugoslavia	(b) 20,000	n.a.	n.a.	n.a.	n.a.	n.a.
Mozambique	n.a.	n.a.	903	2,680	3,805	n.a.
South Africa	5,555	7,691	9,166	10,783	11,716	14,922
United States (c)	1,289,406	1,414,746	1,544,199	1,685,667	1,839,836	1,823,965
Argentina	n.a.	n.a.	n.a.	41,871	41,959	n.a.
Peru	261	365	654	4,941	1,637	17,000
Turkey	n.a.	(b) 2,000	(b) 2,000	(b) 2,000	(b) 2,000	n.a.

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

(a) Exports of bentonitic clay.

(c) Sold or used by producers.

(b) Estimated.

EXPORTS OF BENTONITE

Long tons

Exporting Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Tanzania	—	—	5	—	50	130
Cyprus (a)	—	536	1,528	3,190	2,658	4,539
India	214	22	66	587	302	400
OTHER COUNTRIES						
Austria	86	36	3	90	59	53
Germany (Federal) ..	702	206	232	583	1,008	11,401
Greece	15,553	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Italy	27,788	29,586	22,147	20,893	28,869	26,547
Spain	2,396	2,186	5,536	3,196	1,695	3,228
Yugoslavia	8,570	12,846	17,358	14,006	13,483	25,819
Morocco	7,095	6,253	8,401	6,060	110	155
South Africa	<i>n.a.</i>	<i>n.a.</i>	41	1,504	1,726	1,237
United States	53,853	<i>n.a.</i>	<i>n.a.</i>	203,157	270,354	284,512
Argentina	6,779	5,214	5,548	5,135	6,340	5,265

(a) Bentonitic clay.

IMPORTS OF BENTONITE

Long tons

Importing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom (b) ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	31,444
Canada	<i>n.a.</i>	<i>n.a.</i>	102,184	162,645	171,617	196,305
India	141	159	904	57	77	6
Australia (a)	9,205	10,727	14,060	16,054	15,104	20,927
OTHER COUNTRIES						
Austria	5,971	9,976	13,604	17,814	16,523	2,766
Germany (Federal) ..	3,550	3,859	4,550	11,374	5,931	21,547
Italy	4,342	3,955	4,642	4,775	2,615	7,415
Poland	<i>n.a.</i>	8,344	8,668	3,648	3,785	4,166
Portugal	1,348	1,322	1,547	1,579	2,024	1,538
Spain	4,046	6,851	8,859	12,309	14,963	15,206
Sweden	2,053	2,127	5,804	4,849	5,423	4,416
Morocco	45	12	20	4	<i>n.a.</i>	—
South Africa	<i>n.a.</i>	<i>n.a.</i>	1,514	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
United States	247	<i>n.a.</i>	160	389	<i>n.a.</i>	<i>n.a.</i>
Brazil	7,091	6,116	8,069	4,476	8,482	5,410
Chile	<i>n.a.</i>	918	2,234	1,817	<i>n.a.</i>	<i>n.a.</i>
Colombia	2,337	2,599	2,194	1,806	3,034	1,383
Ecuador	117	125	352	417	<i>n.a.</i>	<i>n.a.</i>
Peru	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	857	793	<i>n.a.</i>
Uruguay	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	6	52	31
Venezuela	4,092	2,784	4,540	3,687	3,462	4,337
Turkey	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	968

(a) Including bentonitic clay.

(b) Not recorded separately prior to 1967

BERYL
PRODUCTION OF BERYL

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Kenya	—	—	1	—	—	17
Rhodesia	498	222	162	(c) 85	n.a.	n.a.
Swaziland	—	2	—	—	—	—
Uganda	996	354	409	188	278	307
India (a)	134	—	—	1,345	446	1,279
Australia	223	110	111	38	52	55
OTHER COUNTRIES						
Portugal	17	2	18	39	12	14
Sweden	(a) 24	(a) —	(a) 44	(a) —	(a) —	(a) —
Congo Republic	272	210	121	19	n.a.	n.a.
Malagasy Republic	663	405	209	20	12	29
Mozambique	560	548	399	216	79	n.a.
Rwanda and Burundi	351	252	281	n.a.	131	107
South Africa	321	379	135	41	21	103
South West Africa	142	54	7	52	21	n.a.
United States (b)	873	671	n.a.	n.a.	n.a.	n.a.
Argentina	220	186	185	374	251	264
Brazil	987	467	567	440	418	n.a.
TOTAL*	6,300	3,900	3,000	4,000	2,500	3,000

*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:

1962—679 long tons; 1963—670 long tons; 1964—nil; 1965—nil; 1966—nil; 1967—nil.

(c) Exports.

EXPORTS OF BERYL

Long tons

Exporting Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Rhodesia (b)	451	268	142	85	<i>n.a.</i>	<i>n.a.</i>
Uganda	1,064	341	466	272	222	310
India (a)	134	—	—	1,346	446	4,828
Australia	218	129	93	50	37	637
OTHER COUNTRIES						
Italy	—	—	—	—	325	908
Portugal	—	<i>n.a.</i>	<i>n.a.</i>	54	10	28
Congo Republic .. (a)	433	(a) 455	(a) 225	(a) 1,201	(a) —	(a) —
Malagasy Republic ..	713	223	235	62	6	24
Mozambique	216	731	376	218	81	<i>n.a.</i>
South Africa	312	266	82	96	31	62
South West Africa ..	115	36	10	24	2	<i>n.a.</i>
U.S.A.	27	42	73	53	27	34
Argentina	890	739	395	156	244	262
Brazil	2,963	1,937	1,379	1,095	695	1,289

(a) Imports into the United States.

(b) Figures for years 1962 and 1963 relate to Rhodesia and Nyasaland.

IMPORTS OF BERYL*

Long tons

Importing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom (a) ..	5	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
OTHER COUNTRIES						
France	601	120	375	<i>n.a.</i>	402	—
United States	7,636	5,574	4,844	6,956	1,917	8,492

*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	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Uganda—						
Ore (<i>Bi content</i>) ..	—	—	—	—	—	<i>n.a.</i>
Canada—						
Metal plus content of bullion and concen- trates exported ..	190	160	179	191	233	242
OTHER COUNTRIES						
France—						
Mispickel (<i>Bi content</i>) ..	62	67	68	60	62	55
Spain—						
Ore (<i>Bi content</i>) ..	2	4	—	—	9	<i>n.a.</i>
Sweden—						
Metal (<i>c</i>)	69	69	67	34	34	30
Yugoslavia—						
Metal	89	87	82	87	102	106
Mozambique—						
Ore (<i>Bi content</i>) ..	8	14	9	6	<i>n.a.</i>	<i>n.a.</i>
South Africa—						
Ore (<i>Bi content</i>) ..	—	1	—	—	—	—
South West Africa—						
Ore	—	—	5	1	—	<i>n.a.</i>
Mexico—						
Ore (<i>Bi content</i>) ..	350	420	465	477	447	501
Argentina—						
Concentrates (<i>Bi content</i>) ..	3	1	—	—	—	—
Bolivia (<i>b</i>)—						
Ore, etc. (<i>Bi content</i>) ..	291	276	270	292	367	523
Peru—						
Concentrates (<i>a</i>) (<i>Bi content</i>)	3	4	14	61	12	21
Lead bars (<i>Bi content</i>)	51	83	46	88	80	62
Metal	430	468	664	646	655	700
Japan—						
Ore (<i>Bi content</i>) ..	1,184	226	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Korea (South)—						
Ore (<i>Bi content</i>) ..	158	156	(<i>c</i>) 500	<i>n.a.</i>	98	112

*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	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Bismuth.. ..	509	603	717	530	325	379
Bismuth salts	142	<i>n.a.</i>	55	43	48	46
Uganda—						
Ore (<i>Bi content</i>) ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1	—	—
Canada—						
Bismuth.. ..	171	178	134	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Bismuth (<i>a</i>)	64	120	146	84	115	60
France—						
Bismuth (<i>a</i>)	44	46	60	58	70	82
Germany (Federal)—						
Bismuth.. ..	137	114	58	71	98	125
Netherlands—						
Bismuth (<i>a</i>)	149	178	155	276	225	211
Bismuth salts	67	79	47	48	45	6
Yugoslavia—						
Bismuth.. ..	64	57	38	54	46	64
South Africa—						
Ore	—	—	—	1	—	—
Mexico—						
Bismuth, refined ..	122	141	171	145	271	216
do. impure bars ..	295	263	393	408	242	371
United States—						
Matte, residues, etc. ..	104	2	6	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Metal and alloys ..	53	14	21	153	40	68
Argentina—						
Ore	—	—	—	15	—	—
Bolivia—						
Ore, etc. (<i>Bi content</i>) ..	291	276	270	292	367	523
Peru—						
Bars, etc. (<i>Bi content</i>) ..	731	495	730	730	733	822
Japan—						
Bismuth.. ..	87	159	245	134	251	266

(a) Including scrap.

IMPORTS OF BISMUTH, ETC.

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Bismuth (c)	528	422	609	370	368	324
Unwrought alloys ..	348	278	379	290	150	262
Canada—						
Bismuth	25	3	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Bismuth salts	5	3	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
India (a)—						
Bismuth and alloys ..	44	41	56	26	16	20
Australia (b)—						
Bismuth	12	16	17	11	8	7
Bismuth salts	7	8	7	7	1	—
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Bismuth	98	1,181	71	37	98	89
Bismuth salts	74	81	84	98	68	81
France—						
Bismuth (c)	556	654	773	689	737	793
Germany (Federal)—						
Bismuth (c)	276	250	254	230	258	246
Italy—						
Bismuth	39	43	41	44	102	52
Bismuth salts	5	<i>n.a.</i>	23	<i>n.a.</i>	4	55
Netherlands—						
Bismuth salts	86	119	104	87	123	67
Poland—						
Bismuth	<i>n.a.</i>	71	97	66	59	103
Spain—						
Bismuth	17	8	21	11	10	12
Morocco—						
Bismuth salts	13	10	8	38	11	10
Mexico—						
Bismuth salts	5	8	10	5	1	—
United States—						
Bismuth	358	502	551	615	751	616
Argentina—						
Bismuth and its salts ..	1	3	9	17	16	18
Brazil—						
Bismuth	7	11	2	12	10	10
Bismuth salts	4	13	16	11	21	10
Chile—						
Bismuth	—	5	<i>n.a.</i>	1	<i>n.a.</i>	1
Colombia—						
Bismuth salts	5	8	6	1	3	<i>n.a.</i>
Peru—						
Bismuth salts	1	1	1	1	1	1
Japan—						
Bismuth	2	3	2	32	2	2
Turkey—						
Bismuth salts	5	5	3	5	5	8

(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	1962	1963	1964	1965	1966	1967
Italy— Boric acid	1,356	506	314	85	—	—
United States (a)— Borates	577,333	625,163	693,106	721,000	773,000	853,000
Argentina— Borates	14,271	<i>n.a.</i>	<i>n.a.</i>	45,000	34,787	54,000
Chile— Boron minerals ..	3,754	5,870	3,262	4,441	3,683	<i>n.a.</i>
Turkey— Borates	112,141	86,697	126,228	168,277	221,728	224,891

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	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Borax	667	620	917	881	441	332
Other borates and perborates	<i>n.a.</i>	6,289	9,835	11,825	11,087	9,613
OTHER COUNTRIES						
Austria—						
Perborates	1,710	2,020	2,287	3,132	3,923	3,963
Belgium-Luxemburg E.U.—						
Boron minerals	3	20	10	—	41	4,366
Borax, refined	2	7	12	179	10	2
Boric acid	7	—	1	4	4	18
Borates and perborates	4,062	3,375	5,626	6,625	8,625	7,597
France—						
Boron minerals	122	348	667	1,193	2,086	994
Borax, refined	3,273	6,300	7,086	6,442	7,333	7,704
Boric acid	5,496	10,865	13,166	13,547	13,995	17,017
Borates and perborates	4,466	5,669	7,935	4,676	7,994	5,251
Germany (Federal)—						
Boron minerals	—	1	7	110	187	211
Borax	210	106	95	102	109	87
Boric acid	62	60	82	76	51	50
Borates and perborates	8,590	8,807	12,239	13,596	20,813	22,830
Italy—						
Boric acid	3,999	4,365	5,954	5,426	4,865	<i>n.a.</i>
Borax, refined	1,537	2,489	2,056	1,129	1,077	<i>n.a.</i>
Perborates	702	343	237	407	401	311
Netherlands—						
Boron minerals	—	20	84,194	131,437	167,599	218,549
Borax, refined	421	257	8,593	34,739	43,762	36,706
Boric acid	31	44	25	23	37	87
Perborates	—	41	<i>n.a.</i>	—	5	7
Sweden—						
Perborate of sodium	71	30	42	42	23	16
Switzerland—						
Borates and perborates	1,941	1,639	1,535	2,012	2,327	2,398
Yugoslavia—						
Perborates	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	357	389	871
United States—						
Borax, borates and boric acid	260,950	302,600	342,054	(b) 155,371	(b) 185,142	(b) 166,503
Argentina—						
Borates of calcium and sodium	3,516	5,324	875	200	157	494
Japan—						
Borax	(a) 14	19	83	104	101	187
Boric acid	8	10	31	11	12	27
Turkey—						
Borates	87,081	90,094	116,538	150,154	172,556	208,771

(a) Including other borates and perborates.

(b) Borax and boric acid only.

IMPORTS OF BORATES

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Boron minerals	21,591	25,870	29,893	41,641	<i>n.a.</i>	52,561
Borates and perborates	<i>n.a.</i>	<i>n.a.</i>	1,499	396	1,820	4,495
Borax	21,497	21,389	27,279	21,848	20,946	14,578
Boric acid	3,475	<i>n.a.</i>	3,255	3,068	4,741	6,228
Rhodesia (c)—						
Borax	139	113	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Boric acid	12	12	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Canada—						
Borax	11,631	13,023	9,390	8,601	9,360	8,990
Boric acid	2,378	1,352	1,463	2,393	3,280	3,412
Hong Kong—						
Borax, refined	3,778	3,356	3,724	3,626	3,735	4,225
Boric acid	97	122	123	144	187	135
India—						
Boron minerals	—	—	—	31	591	1,900
Borax	4,807	5,995	8,683	8,986	2,137	2,552
Boric acid (b)	638	1,041	2,421	571	25	55
Pakistan—						
Borax	287	340	445	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Australia (a)—						
Boron minerals	1,833	1,912	975	1,293	1,870	2,010
Boron salts	3,417	3,988	4,462	4,316	(d) 3,454	4,257
Boric acid	1,009	1,168	1,304	1,425	1,350	1,883
New Zealand						
Boric acid	477	(a) 422	(a) 1,450	(a) 1,411	(a) 633	(a) 477
Borates and perborates	<i>n.a.</i>	(a) 2,653	(a) 2,338	(a) 2,920	(a) 1,936	(a) 1,283
Irish Republic—						
Borax	1,109	1,305	1,035	857	962	561
OTHER COUNTRIES						
Austria—						
Boron minerals	4,112	3,634	5,447	5,043	5,698	8,018
Borates	3	24	27	23	57	9
Boric acid	2	5	22	185	31	11
Perborates	5	153	3	2	2	—
Belgium-Luxemburg						
E.U.—						
Boron minerals	132	205	922	1,484	11,632	16,659
Borax, refined	5,055	6,283	9,507	8,400	3,083	2,361
Boric acid	373	551	717	588	1,502	961
Borates and perborates	2,001	1,966	2,485	2,486	3,665	2,294
Denmark—						
Boron minerals	903	799	925	1,353	1,292	1,240
Borax	156	131	140	152	176	225
Boric acid	99	104	135	130	101	118
Borates and perborates	2,660	2,250	3,209	4,668	5,347	5,650
Finland—						
Boron minerals	1,024	784	1,496	2,333	2,390	2,499
Borax	753	918	557	758	589	698
Boric acid	192	118	172	115	187	149
Borates and perborates	1,483	1,649	2,288	1,840	2,140	2,833
France—						
Boron minerals	32,028	39,115	46,436	66,238	72,025	31,601
Borax refined	17,586	21,424	25,671	25,311	22,002	18,542
Boric acid	1,432	419	613	414	814	596
Borates and perborates	548	727	614	729	1,082	1,219

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

(c) Figures for years 1962 and 1963 relate to Rhodesia and Nyasaland.

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

IMPORTS OF BORATES (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (Federal)—						
Boron minerals	32,262	43,920	47,850	54,183	64,819	91,124
Boric acid	7,406	6,737	10,906	11,339	11,005	8,936
Borax	13,266	15,359	20,600	20,399	16,588	14,018
Borates and perborates	213	148	1,136	1,396	1,447	153
Greece—						
Boron minerals	103	306	310	333	458	588
Borax	16	32	1	17	18	16
Boric acid	23	19	37	39	61	23
Italy—						
Boron minerals	57,287	49,383	53,637	82,184	72,417	69,635
Borax	3,902	6,123	6,683	7,284	9,540	5,482
Boric acid	163	180	108	20	—	—
Borates	280	74	5,958	1,876	5,297	3,165
Perborates	301	1,221				
Netherlands—						
Boron minerals	3,770	3,445	90,726	162,366	170,902	226,956
Borax	10,166	11,164	20,691	46,352	50,014	40,203
Boric acid	1,431	1,974	2,333	2,425	1,643	1,392
Perborates	4,310	3,703	5,195	5,890	8,290	8,360
Norway—						
Borax	1,348	1,758	2,492	1,705	2,395	2,571
Boric acid	629	291	726	604	156	208
Perborate of sodium ..	2,053	1,709	2,018	1,897	2,321	1,983
Portugal—						
Boric acid	86	100	163	125	129	151
Borax	1,014	1,103	1,355	1,198	1,818	1,588
Spain—						
Boron minerals	8,667	6,644	10,876	8,757	13,156	16,810
Boric acid	—	6	316	678	660	696
Borates and perborates	184	37	730	763	1,262	1,720
Sweden—						
Borax	3,731	3,367	4,166	5,412	5,626	7,973
Boric acid	258	427	418	539	793	1,089
Perborate of sodium ..	3,407	2,970	4,662	6,095	6,937	4,793
Switzerland—						
Borax (a)	135	155	206	436	459	740
Boric acid	471	456	583	479	566	479
Borates	4,569	4,350	4,737	5,129	5,134	4,907
Perborates	478	468	4	293	123	1,118
U.S.S.R.—						
Borax	6,300	7,300	15,000	9,800	10,000	7,480
Yugoslavia—						
Boron minerals	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	598	1,352	1,821
Boric acid	361	366	408	703	550	281
Borates	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,599	2,913	2,758
Perborates	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	184	1,550	2,523
Angola—						
Borax	11	39	24	75	43	60
Egypt—						
Borax	227	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Boric acid	1	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Morocco—						
Borates	276	414	317	439	406	862
Perborates	10	35	16	36	28	27
Mozambique—						
Borax	4	6	8	5	4	<i>n.a.</i>
Boric acid	1	2	1	3	2	<i>n.a.</i>
South Africa—						
Boron minerals	<i>n.a.</i>	<i>n.a.</i>	99	14	804	<i>n.a.</i>
Borax	1,675	1,341	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Boric acid	343	193	574	236	<i>n.a.</i>	719
Borates and perborates	<i>n.a.</i>	<i>n.a.</i>	2,273	3,942	3,985	4,279

(a) Crude borax only.

IMPORTS OF BORATES (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Tunisia—						
Borax etc.	36	20	19	34	37	98
Mexico—						
Borax	4,134	5,937	2,390	<i>n.a.</i>	<i>n.a.</i>	62
Boric acid	814	822	950	1,425	1,853	936
Brazil—						
Boron minerals	1,082	—	—	49	1,161	1,926
Boric acid	873	967	1,004	865	910	966
Borax	6,212	7,944	7,895	7,089	7,782	6,516
Borates	1	1	—	6	3	2
Colombia—						
Borax	616	961	357	226	1,174	493
Boric acid	210	322	189	115	521	129
Perborate of sodium	99	104	109	68	92	12
Ecuador—						
Borax	4	18	34	52	<i>n.a.</i>	<i>n.a.</i>
Boric acid	9	10	16	17	<i>n.a.</i>	<i>n.a.</i>
Peru—						
Borax	356	331	347	392	388	350
Boric acid	51	123	88	108	231	285
Uruguay—						
Borates	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	113	109	<i>n.a.</i>
Venezuela—						
Borax	382	584	1,515	1,899	1,092	1,438
Boric acid	102	87	142	192	127	242
Formosa—						
Borax	981	1,100	1,442	1,848	1,634	<i>n.a.</i>
Boric acid	92	69	110	109	91	<i>n.a.</i>
Iran (a)—						
Borax	227	316	230	178	292	449
Boric acid	10	11	23	7	22	27
Israel—						
Borates	661	310	493	429	<i>n.a.</i>	328
Perborate of sodium	88	295	271	321	<i>n.a.</i>	241
Japan—						
Borax	20,154	24,482	26,951	26,474	28,621	39,968
Boric acid	5,775	6,028	7,351	6,106	7,954	7,819
Korea (South)—						
Borax	<i>n.a.</i>	444	663	1,425	653	1,354
Lebanon—						
Borates	} 445	584	796	1,071	1,330	2,111
Perborates						
Philippine Republic—						
Boric acid	34	105	110	203	<i>n.a.</i>	<i>n.a.</i>
Thailand—						
Borax	863	460	467	560	512	582
Boric acid	80	101	107	57	95	50
Turkey—						
Borax	348	537	590	160	699	1,482
Boric acid	1	8	21	7	11	106
Borates and perborates	20	51	49	160	266	41

(a) Years ended March 20 following that stated.

BROMINE
PRODUCTION OF BROMINE

Lb. avdp.

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
India	459,000	608,000	317,000	26,000	210,000	<i>n.a.</i>
OTHER COUNTRIES						
France (a)	3,571,000	4,259,000	5,858,000	6,177,000	7,044,000	<i>n.a.</i>
Germany (Federal)	<i>n.a.</i>	<i>n.a.</i>	5,434,000	6,493,000	7,000,000	7,000,000
Italy	2,207,535	2,562,428	3,537,402	4,539,756	<i>n.a.</i>	<i>n.a.</i>
United States (a) (b)	190,747,000	203,333,000	238,019,000	274,569,000	275,009,000	292,072,000
Israel	<i>n.a.</i>	<i>n.a.</i>	8,400,000	(a)9,300,000	9,300,000	b16,300,000
Japan	6,360,000	6,120,000	6,360,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

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

(a) Sales.

(b) Including bromine content of compounds.

EXPORTS OF BROMINE, ETC.

Lb. avdp.

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom— Bromides	<i>n.a.</i> <i>n.a.</i>	(a) (£138,775)	(a) (£180,195)	(a) (£181,972)	(a) (£161,337)	(a) (£120,840)
OTHER COUNTRIES						
Belgium-Luxemburg E.U.—						
Bromine	—	—	33,069	2,205	—	—
Bromides, etc.	200	—	16,314	7,496	32,200	23,100
France—						
Bromine	842,000	1,682,127	2,153,916	2,427,289	2,416,000	2,879,000
Bromides	1,817,000	1,732,833	2,087,777	1,856,292	2,848,000	2,454,000
Germany (Federal)— Bromides	<i>n.a.</i>	131,000	177,500	72,500	76,500	60,600
Italy—						
Bromine	838	—	215,389	186,300	205,300	278,003
Bromides	13,237	15,873	35,133	1,100	5,500	15,873
Netherlands— Bromides, etc.	<i>n.a.</i>	1,027,000	1,045,000	664,000	628,000	740,753
United States— Bromine and compounds (b)	8,800,351	10,839,960	17,036,442	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Israel— Bromine	2,523,000	2,193,000	<i>n.a.</i>	6,867,000	4,967,000	<i>n.a.</i>
Japan—						
Bromine	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Bromine compounds	208,052	277,725	390,172	796,828	557,990	793,699

(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	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Canada—						
Bromine	35,415	39,389	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Bromide of soda ..	77,906	100,077	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Hong Kong—						
Bromates and bromides	<i>n.a.</i>	<i>n.a.</i>	13,328	5,152	18,256	18,592
India (b)—						
Bromine	456,141	397,895	265,961	113,238	3,146	163
Bromide of potash ..	1,629	22,046	602	694	1,008	4,409
Bromide of soda ..	—	22,046	—	16,480	5,278	—
Australia (a)—						
Bromate of potash ..	38,276	44,406	42,096	} 103,595	145,429	161,713
Bromide of potash ..	51,913	65,364	78,978			
Bromates and bromides of soda	69,335	69,064	94,734	97,085	72,778	150,130
Other bromates and bromides	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	137,283	109,652
OTHER COUNTRIES						
Belgium-Luxemburg E.U.—						
Bromine	32,600	27,600	37,000	30,000	44,800	35,000
Bromides, etc. ..	870,400	957,200	1,465,000	902,100	1,162,300	1,567,300
Denmark—						
Bromine	11,000	11,000	6,600	18,000	24,000	63,000
Bromide of potash ..	22,000	11,000	8,800	18,000	11,000	22,000
Bromide of soda ..	90,000	44,100	94,800	130,000	148,000	143,000
Other bromides ..	<i>n.a.</i>	46,297	39,683	40,000	35,000	57,000
Finland—						
Bromine	2,015	2,646	1,733	1,664	2,520	2,721
France—						
Bromine	—	6,600	253,500	—	13,000	—
Bromides	18,000	13,200	33,100	156,500	104,000	295,400
Germany (Federal)—						
Bromides	<i>n.a.</i>	238,800	399,300	755,700	887,700	1,163,400
Greece—						
Bromine	606	454	2,313	1,486	2,652	3,221
Bromides, etc. ..	21,936	13,794	31,456	24,837	<i>n.a.</i>	<i>n.a.</i>
Italy—						
Bromine	566,288	111,995	177,700	49,400	26,455	26,235
Bromides	148,792	252,650	155,100	280,900	286,601	395,729
Netherlands—						
Bromine	—	1,157,000	911,000	1,543,000	1,391,000	1,644,648
Bromides, etc. ..	326,000	245,000	327,000	282,000	165,000	158,733
Norway—						
Bromine	2,000	—	—	2,000	—	—
Portugal—						
Bromine	882	220	441	661	882	661
Bromide of soda ..	} 9,500	12,800	32,600	5,700	6,614	24,250
Bromide of potash ..						
Bromide of ammonium						
Spain—						
Bromine	13,129	31,284	75	381,347	110,284	172,685
Bromides	<i>n.a.</i>	82,978	85,608	76,053	78,773	66,357
Sweden—						
Bromine	9,000	17,637	2,205	—	—	—
Yugoslavia—						
Bromine	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	14,185	8,045	2,427
Bromides, bromates, etc.	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	31,110	65,319	111,470

(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	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Morocco—						
Bromides	7,072	5,344	6,241	3,604	10,161	9,952
South Africa—						
Bromine	1,826	9,956	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Mexico—						
Bromine	130,723	84,433	100,650	79,735	80,281	146,863
Bromides of potash and soda	64,415	22,368	40,730	41,277	29,657	64,035
United States—						
Bromine and compounds	461,108	374,012	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Argentina—						
Bromine and compounds	284,050	239,598	342,552	300,131	186,026	344,840
Brazil—						
Bromine	2,473	344	743	408	30,206	11,788
Bromides	668,627	573,332	332,298	514,676	624,281	268,274
Chile—						
Bromine	1,497	871	<i>n.a.</i>	1,457	<i>n.a.</i>	<i>n.a.</i>
Bromides	944	1,105	<i>n.a.</i>	44	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Bromine	—	1,181	2,571	1,243	—	2,023
Bromides, etc. ..	16,795	17,331	25,153	13,369	27,941	<i>n.a.</i>
Peru—						
Bromine	269	926	324	328	1,122	637
Bromides	6,620	7,311	6,660	14,987	7,198	5,794
Iran (a)—						
Bromides	31,654	22,578	36,564	11,872	3,450	30,479
Japan—						
Bromine compounds ..	6,700	26,440	40,431	60,777	165,115	76,397
Philippine Republic—						
Bromide of potash ..	<i>n.a.</i>	21,599	4,683	4,497	<i>n.a.</i>	<i>n.a.</i>
Thailand—						
Bromide of potash ..	12,946	19,207	19,619	31,603	27,750	33,826
Turkey—						
Bromine	—	322	176	324	463	450
Bromides	6,285	7,209	10,748	21,343	13,623	20,461

(a) Years ended March 20 following that stated.

CADMIUM
PRODUCTION OF CADMIUM

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom ..	106	110	194	217	181	205
Zambia	17	15	14	18	12	10
Canada (b)	1,163	1,105	1,238	784	1,445	2,130
Australia	353	486	494	516	518	516
OTHER COUNTRIES						
Austria	22	19	19	21	21	19
Belgium	1,000	1,000	1,000	800	(e) 650	(e) 650
France	253	292	484	421	440	490
Germany (Federal) ..	250	219	314	322	350	392
Italy	243	277	273	269	241	215
Netherlands (e)	95	100	105	90	100	100
Norway	113	107	111	77	71	83
Poland (g)	390	410	410	420	425	n.a.
Spain	34	59	60	(e) 60	(e) 60	(e) 60
U.S.S.R. (g)	1,600	1,700	1,800	1,900	1,900	2,188
Yugoslavia	(g) 39	(g) 39	(g) 40	(g) 40	(g) 40	(g) 41
Congo Republic	290	389	464	393	414	279
South West Africa (a) ..	544	472	315	535	433	n.a.
Guatemala	4	3	—	2	1	n.a.
Honduras	14	86	103	87	107	111
Mexico (c)	598	713	737	713	799	1,026
United States—						
Metal (d)	4,972	4,460	4,669	4,317	4,670	3,883
Ecuador	1	2	2	1	1	1
Peru (f)	126	189	223	322	297	223
Japan	869	996	1,196	1,456	1,476	1,867
Philippine Republic ..	1	11	11	10	5	3
TOTAL*	12,000	12,000	13,000	13,000	13,000	15,000

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

Cadmium is also reported to be produced in Bulgaria.

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

EXPORTS OF CADMIUM, ETC.

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Zambia (e)	35	19	13	13	8	11
Canada	1,045	866	725	609	898	749
Australia	194	325	340	449	512	467
OTHER COUNTRIES						
Belgium-Luxemburg E.U. (a)	828	867	829	724	573	646
France—						
Cadmium (a)	21	64	76	102	45	47
Cadmium sulphide	18	4	—	—	2	19
Germany (Federal)—						
Cadmium (a)	63	48	52	109	136	145
Cadmium oxide	32	18	9	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Italy—						
Cadmium (a)	82	3	14	12	93	74
Netherlands (a)	174	242	183	302	262	248
Norway	86	85	72	97	69	65
Poland	<i>n.a.</i>	285	292	393	334	277
U.S.S.R.	1,100	984	689	900	600	500
Yugoslavia	<i>n.a.</i>	50	2	<i>n.a.</i>	<i>n.a.</i>	12
Congo Republic (d)	300	600	350	400	400	350
South West Africa (b)	544	472	315	271	411	<i>n.a.</i>
Mexico (c)	534	1,073	953	955	1,110	876
United States—						
Metal, alloys, dross, flue dust, etc.	320	586	643	33	169	309
Peru	117	147	205	220	248	152
Japan	255	1,175	345	705	648	556

(a) Including scrap.

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

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

(d) Estimated.

(e) Figures for years 1962 and 1963 relate to Rhodesia and Nyasaland.

IMPORTS OF CADMIUM, ETC.

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom	1,157	1,380	1,549	1,375	638	1,070
India (a)	41	60	105	151	62	109
OTHER COUNTRIES						
Austria	12	15	12	12	8	8
Belgium-Luxemburg						
E.U. (b)	158	481	222	327	514	392
Denmark	36	29	21	23	15	22
France—						
Cadmium (b)	840	795	567	403	540	497
Cadmium sulphide	18	18	12	15	17	21
Germany (Federal)—						
Cadmium (b)	903	987	890	1,177	1,129	1,171
Cadmium oxide	54	62	73	n.a.	n.a.	n.a.
Italy—						
Cadmium (b)	83	73	47	41	56	89
Cadmium oxide	23	15	15	1	15	11
Cadmium sulphide	9	n.a.	12	n.a.	n.a.	18
Netherlands—						
Cadmium (b)	213	186	174	247	257	168
Cadmium salts	24	48	75	78	92	123
Spain	21	10	16	12	21	3
Sweden	102	185	140	110	215	113
U.S.S.R.	329	255	153	233	179	217
Yugoslavia	—	—	12	13	9	4
United States—						
Cadmium	499	342	493	947	1,499	708
Flue dust (cadmium content)	701	333	568	580	527	520
Argentina—						
Cadmium and salts	2	1	1	3	2	1
Brazil—						
Cadmium	34	46	28	33	56	45
Cadmium salts	1	—	—	—	—	3
Japan	10	16	22	23	14	31

(a) Years ended March 31 following that stated.

(b) Including scrap.

CEMENT
PRODUCTION OF CEMENT

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom	14,028,000	13,837,000	16,698,000	16,921,000	16,486,000	17,304,000
Kenya	340,905	338,000	415,000	476,000	463,000	485,804
Malawi	32,000	25,000	31,000	31,000	43,000	43,000
Nigeria	475,000	519,000	653,000	967,000	986,000	709,810
Rhodesia	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Uganda	55,051	54,282	71,524	132,662	120,000	135,142
Zambia	117,000	114,000	149,000	218,000	252,000	240,000
Canada (a)	6,141,722	6,262,198	7,006,593	7,462,234	7,973,707	6,887,818
Jamaica	196,520	197,550	277,465	311,069	349,819	329,722
Trinidad	162,700	159,700	173,300	186,200	208,500	187,200
Ceylon	83,442	74,049	73,436	84,477	81,572	188,741
Cyprus	93,695	83,457	77,792	95,255	89,566	182,158
Hong Kong	208,591	213,198	211,636	236,836	243,016	212,000
India	8,450,000	9,207,000	9,537,000	10,411,000	10,877,000	11,122,000
Malaysia (West)	320,000	356,000	458,000	726,000	771,000	760,000
Pakistan	1,373,000	1,474,000	1,522,000	1,680,000	1,856,000	2,006,000
Australia	2,889,000	3,071,000	3,568,000	3,742,000	3,616,000	3,761,000
Fiji	—	—	31,000	39,000	40,000	46,000
New Zealand	621,000	711,000	775,000	829,000	864,000	801,000
TOTAL	36,000,000	37,000,000	42,000,000	45,000,000	46,000,000	45,000,000
Irish Republic	873,459	869,482	1,020,067	1,202,084	1,118,016	1,278,060
OTHER COUNTRIES						
Albania	117,360	127,549	125,153	132,000	<i>n.a.</i>	<i>n.a.</i>
Austria	3,008,830	3,259,960	3,709,200	3,980,410	4,429,990	4,476,240
Belgium (b)	4,712,580	4,635,020	5,753,730	5,811,873	5,702,000	4,828,400
Bulgaria	1,863,000	2,170,000	2,545,000	2,639,000	2,811,000	3,305,000
Czechoslovakia	5,620,000	5,096,000	5,406,000	5,623,000	6,033,000	6,100,000
Denmark—						
Portland cement	1,401,604	1,267,106	1,676,665	1,798,548	1,993,535	2,168,653
Special cements	204,546	229,851	191,322	169,584		
Finland	1,335,947	1,405,624	1,547,099	1,742,047	1,532,000	1,490,088
France—						
Portland cement	11,571,177	12,447,198	15,970,694	16,578,377	17,746,365	24,242,000
Portland blast furnace cements	2,773,763	3,827,851	3,417,770	3,577,982	3,494,278	
Slag cements	10,449	43,472	4,569	3,560	1,805	
Masonry cements	417,825	521,148	585,288	608,850	628,055	
Natural cements	390,596	270,958	251,470	209,388	80,160	
Special cements	1,451,948	737,134	966,934	1,033,616	985,332	
Germany (Federal)—						
Portland cement	20,411,000	21,179,000	24,397,000	25,033,000	25,375,000	23,287,000
Portland blast furnace cements	6,701,000	6,723,000	7,756,000	7,741,000	7,960,000	7,090,000
Special cements	1,029,000	854,000	947,000	820,000	854,000	832,000
Germany (East)	5,346,000	5,372,000	5,676,000	5,991,000	6,348,000	7,069,000
Greece	1,890,621	2,257,293	2,629,688	3,161,460	3,537,583	3,675,602
Hungary	1,705,941	1,769,200	2,221,037	2,345,771	2,560,000	2,614,000
Iceland	96,000	97,000	106,000	112,000	113,000	114,000
Italy	19,838,415	21,700,000	22,500,000	20,400,000	22,000,000	26,000,000
Luxemburg	226,367	198,467	202,000	218,000	209,000	179,848
Netherlands	1,983,000	2,048,000	2,827,300	2,926,300	3,113,000	3,296,000
Norway	1,389,587	1,414,998	1,516,171	1,576,703	1,797,685	2,118,278
Poland	7,425,000	7,553,000	8,623,000	9,422,000	9,881,000	10,962,000
Portugal	1,378,759	1,410,159	1,595,985	1,653,156	1,692,682	1,792,664
Roumania	3,434,129	4,300,000	4,677,000	5,321,000	5,793,000	6,239,000

(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	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Spain—						
Portland cement ..	6,187,313	6,665,709	7,509,853	8,708,235	} 11,620,000	12,892,000
Natural cement ..	546,907	585,565	376,718	331,417		
Other cements ..	324,655	274,855	312,065	777,053		
Sweden—						
Portland cement ..	2,919,957	3,100,488	3,449,785	3,591,531	3,591,834	} 3,776,000
Other cements ..	139,169	152,938	119,152	124,241	105,209	
Switzerland ..	3,667,018	3,524,768	4,254,047	3,975,658	4,257,326	4,109,723
U. S. S. R. ..	56,423,000	60,054,000	63,900,000	71,240,000	78,740,000	83,460,000
Yugoslavia ..	2,478,000	2,802,000	2,992,000	3,054,000	3,181,000	3,261,000
Algeria ..	631,600	869,900	772,000	728,000	648,000	659,000
Angola ..	166,721	190,962	210,440	241,582	259,858	274,862
Canary Islands ..	120,058	99,296	167,213	241,129	(g)	(g)
Cape Verde Islands ..	7,000	11,000	12,000	(e) 12,000	n.a.	n.a.
Congo Republic ..	194,000	242,308	228,663	244,000	(e) 260,000	(e) 256,000
Egypt ..	2,197,000	r2,488,000	r2,229,000	r2,283,000	2,587,000	2,698,694
Ethiopia (d) ..	r 30,000	r 43,000	r 33,000	94,000	(e) 98,000	148,000
Morocco ..	687,200	747,300	911,800	776,000	843,200	855,000
Mozambique ..	175,744	160,558	178,675	216,873	220,529	239,115
Senegal ..	180,300	186,600	201,700	178,500	191,400	169,700
Sudan ..	r 102,000	114,000	89,289	48,365	98,000	89,000
Tunisia ..	356,819	355,000	448,000	446,000	469,000	464,000
South Africa ..	2,616,870	2,838,820	3,401,610	3,819,890	3,926,980	3,750,000
Costa Rica ..	—	—	29,839	112,468	113,894	115,312
Cuba ..	767,000	799,000	793,000	788,000	787,000	882,000
Dominican Republic ..	238,912	224,566	292,817	208,474	273,110	305,442
Guatemala (f) ..	98,000	128,000	152,000	189,000	167,000	220,000
Haiti ..	55,712	49,687	50,587	41,000	37,000	39,000
Honduras ..	54,060	59,000	72,000	93,000	103,000	109,000
Mexico ..	3,299,000	3,703,000	4,347,000	4,254,000	4,890,000	5,400,000
Nicaragua ..	45,181	52,962	60,088	65,028	86,600	89,285
Panama Republic ..	120,000	140,000	123,000	162,000	148,000	148,000
Salvador ..	64,082	77,030	88,621	79,444	139,176	143,054
United States (a)—						
Portland cement ..	56,481,900	59,176,900	61,877,700	62,345,800	64,563,200	62,006,300
Prepared masonry cement (b) ..	2,518,500	2,602,800	2,765,900	2,878,000	2,858,000	2,745,000
Natural, slag and hydraulic lime cements	73,900	59,900	46,200	46,800	19,000	15,900
Argentina ..	2,901,866	2,479,318	2,845,206	3,253,266	3,431,720	3,496,650
Bolivia ..	48,646	63,382	62,514	64,786	65,000	(f) 66,000
Brazil ..	4,913,398	4,803,940	5,123,520	5,138,434	5,465,000	6,363,000
Chile ..	1,128,922	1,150,137	1,246,673	1,169,148	1,342,686	1,184,064
Colombia ..	1,718,393	1,806,000	1,941,000	2,837,303	2,192,803	2,080,314
Ecuador ..	191,005	254,313	284,000	(f) 320,000	372,000	422,914
Paraguay ..	16,000	18,000	23,000	29,000	26,000	15,000
Peru ..	689,503	742,147	800,598	1,000,772	1,052,000	1,026,000
Uruguay ..	368,000	335,000	406,000	424,000	471,000	414,000
Venezuela ..	1,485,053	1,555,255	1,820,384	2,078,492	2,080,272	2,242,320
Afghanistan (c) ..	59,000	101,000	123,000	167,000	172,000	172,000
Burma ..	52,440	122,000	129,000	r 133,000	139,000	138,000
Cambodia ..	—	—	n.a.	50,000	58,000	(e) 59,000
China ..	7,900,000	9,842,000	e 10,334,000	e 11,000,000	e 11,000,000	e 8,000,000
Formosa ..	1,840,000	2,210,000	2,320,000	2,410,000	3,060,000	3,431,743
Indonesia ..	497,000	r 503,000	432,000	(e) 360,000	333,000	(e) 345,000
Iran (c) ..	(f) 730,000	(f) 730,000	(f) 730,000	772,000	1,372,000	1,372,000
Iraq ..	878,247	909,450	1,006,660	1,265,000	1,321,000	e 1,575,000

(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	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Israel	938,540	1,010,000	1,080,000	1,240,000	1,150,000	857,441
Japan	28,332,000	29,475,000	32,460,000	32,173,000	37,672,000	42,572,000
Jordan	231,561	280,772	302,929	300,272	368,264	315,495
Korea (South)	777,270	766,006	1,222,496	1,588,648	1,850,528	2,402,473
Korea (North)	2,338,000	2,490,000	2,569,000	2,362,000	2,460,000	2,559,000
Lebanon	609,644	882,457	867,244	950,000	1,079,000	1,000,000
Philippine Republic	945,605	936,295	1,182,148	1,505,000	1,620,000	2,079,000
Saudi Arabia	179,000	193,000	238,000	249,000	246,000	348,000
Syria	597,000	674,000	625,000	663,000	607,000	677,000
Thailand	950,000	980,000	1,053,635	1,228,286	1,459,312	1,710,000
Turkey	2,286,000	2,655,186	2,893,445	3,193,189	3,803,696	4,181,892
Vietnam (South)	50	20,852	74,116	186,295	132,527	177,901
Vietnam (North)	(b)455,000	483,000	639,000	740,000	(b) 738,000	(b) 738,000
TOTAL (a)	316,000,000	334,000,000	366,000,000	382,000,000	409,000,000	425,000,000
WORLD'S TOTAL (a)	352,000,000	371,000,000	408,000,000	427,000,000	456,000,000	470,000,000

(a) Estimated.

(b) United States Bureau of Mines' estimate.

CHINA CLAY
PRODUCTION OF CHINA CLAY

Long tons

Producing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom (h) ..	1,696,569	1,898,000	2,033,000	2,203,000	2,482,000	2,591,000
Kenya	1,155	6,558	1,268	1,687	879	1,433
Nigeria	5	15	3	25	20	320
Rhodesia	—	10,929	18,750	n.a.	n.a.	n.a.
Swaziland	2,449	1,975	307	741	578	1,830
Tanzania	156	179	109	r 164	286	307
Ceylon	—	—	1,502	803	1,591	2,574
Hong Kong	6,374	5,019	5,043	4,712	5,771	8,435
India	r 404,818	r 428,339	428,022	504,000	540,329	504,898
Malaysia (West) ..	3,459	1,176	1,420	1,562	1,576	1,758
Pakistan	169	696	956	1,426	2,714	2,881
Australia	36,070	44,544	40,808	59,683	50,110	66,112
OTHER COUNTRIES						
Austria (crude) ..	331,080	343,829	362,305	322,503	371,715	377,718
Belgium	50,887	49,920	n.a.	n.a.	178,267	97,245
Bulgaria (f)	n.a.	76,000	82,000	93,000	92,000	n.a.
Czechoslovakia ..	314,000	316,000	308,056	317,000	320,000	n.a.
Denmark (c)—						
Crude	7,278	11,871	n.a.	n.a.	n.a.	n.a.
Washed and pressed ..	3,254	n.a.	n.a.	n.a.	n.a.	n.a.
Washed waste	9,977	5,069	n.a.	n.a.	n.a.	n.a.
France	133,000	130,000	123,000	130,000	150,000	148,000
Germany (Federal) ..	377,020	381,620	403,010	393,270	400,687	397,339
Greece	34,406	30,185	r 48,750	81,648	72,311	98,000
Hungary	40,173	43,535	49,543	53,000	61,000	65,000
Italy—						
Crude	86,296	r 86,525	95,850	r 106,149	83,352	86,397
Kaolinic earth	119,283	r 110,893	92,751	r 48,600	n.a.	n.a.
Portugal—						
Crude and washed ..	42,803	37,385	37,688	39,756	33,528	36,621
Spain	(e) 165,143	(e) 204,330	(f) 138,701	(f) 144,396	n.a.	n.a.
Sweden (b)	25,814	31,222	43,342	41,075	26,855	39,200
Yugoslavia	4,500	4,000	5,000	5,000	5,000	4,500
Angola	30	150	n.a.	n.a.	n.a.	n.a.
Egypt	14,370	20,677	61,804	47,020	49,198	n.a.
Eritrea	980	(g) 500	(g) 500	(g) 200	n.a.	500
Morocco	—	—	—	967	—	n.a.
Mozambique	177	5	10	150	345	612
South Africa	28,005	33,404	38,835	40,740	39,879	32,316
Mexico	n.a.	45,826	63,211	79,854	95,065	77,350
United States (a) ..	2,676,926	2,824,619	2,974,412	3,217,815	3,915,577	3,547,249
Argentina	38,096	35,332	41,711	71,580	72,270	n.a.
Chile	29,983	36,316	45,237	29,625	39,862	28,959
Colombia	70,000	75,000	79,416	82,000	25,893	n.a.
Ecuador	r 806	r 812	r 718	r 416	1,907	795
Peru	344	52	325	384	411	n.a.
Iran (d)	n.a.	n.a.	6,860	9,448	n.a.	n.a.
Japan	70,725	97,662	105,655	87,871	105,125	148,070
Korea (South)	37,590	51,437	59,580	71,103	110,460	101,054
Vietnam (South) ..	1,624	1,834	2,038	n.a.	n.a.	n.a.

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

- (a) Sold or used by producers. (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.
 (h) From 1965 onwards the figures are unofficial. The official production statistics for China Clay and China Stone together are as follows (long tons): 1965—2,232,000; 1966—2,512,000; 1967—2,621,000.

EXPORTS OF CHINA CLAY

Long tons

Exporting Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom ..	1,100,672	1,251,387	1,360,813	1,482,160	1,712,091	1,760,137
Tanzania	90	51	10	—	—	—
Hong Kong	4,658	4,122	2,900	3,665	3,924	4,823
India (a)	474	208	698	147	80	529
Malaysia (West) ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	114	216	120
OTHER COUNTRIES						
Austria	38,465	38,538	34,401	30,180	30,990	27,374
Belgium-Luxemburg						
E.U.	116	323	71	400	921	1,220
Czechoslovakia ..	150,000	160,000	163,000	167,000	163,000	<i>n.a.</i>
Denmark	1,068	204	73	47	92	57
France	51,523	51,137	55,056	55,223	55,062	52,784
Germany (Federal) ..	37,793	51,476	55,866	54,508	65,300	77,311
Germany (East) ..	63,113	63,158	61,722	68,878	71,522	78,503
Greece	7,967	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Italy	109	267	359	528	390	234
Netherlands	44	96	209	114	740	145
Portugal	15,490	12,799	10,792	10,420	2,397	2,401
Spain	9,119	<i>r</i> 10,546	<i>r</i> 18,435	<i>r</i> 24,709	18,220	19,277
Sweden	10	11	62	120	141	160
U.S.S.R.	394	3,149	98	1,100	300	5,200
Morocco	—	—	272	8	—	—
South Africa	<i>n.a.</i>	<i>n.a.</i>	263	396	505	872
United States	106,152	99,747	135,469	172,210	226,257	287,437
Argentina	—	59	49	10	5	41
Brazil	98	197	710	1,383	689	945
Japan	5,142	2,998	2,736	2,790	1,018	1,743
Korea (South)	7,619	13,626	13,170	20,073	28,016	25,942
Turkey	19	15	256	20	49	—

(a) Years ended March 31 following that stated.

IMPORTS OF CHINA CLAY

Long tons

Importing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Canada	139,688	155,141	151,557	173,184	175,693	169,921
Hong Kong	251	(b) 98	(b) 197	(b) 16	131	51
India	6,588	6,082	5,690	4,325	2,019	3,412
Malaysia (West)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,501	1,233	1,299
Pakistan	9,065	1,416	2,916	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Australia	12,389	22,119	20,918	22,316	25,652	26,197
New Zealand	1,693	(d) 1,569	(d) 2,763	(d) 2,856	(d) 2,602	(d) 3,004
OTHER COUNTRIES						
Austria	8,546	9,312	12,773	18,775	21,805	27,955
Belgium-Luxemburg E.U.	45,537	51,494	57,491	63,541	92,017	93,897
Denmark	30,932	31,093	34,788	30,799	37,793	30,877
Finland	105,865	111,736	132,614	147,406	178,754	209,726
France	149,566	181,302	201,772	206,291	236,064	225,048
Germany (Federal)	294,688	333,271	358,831	375,447	420,637	391,800
Hungary	50,492	61,854	59,483	67,371	65,878	63,939
Italy	202,466	224,047	279,603	264,174	321,408	364,692
Netherlands	100,105	110,399	128,128	126,030	142,551	131,439
Norway	48,384	66,739	69,586	62,731	70,658	66,681
Poland	<i>n.a.</i>	79,700	76,500	70,844	76,567	70,187
Portugal	222	277	252	268	446	970
Spain	r 7,242	r 7,830	r 15,781	r 27,955	38,612	44,189
Sweden	128,948	136,444	159,821	162,699	116,738	189,506
Yugoslavia	16,944	20,486	25,461	27,127	23,001	26,096
Angola	37	97	63	40	84	74
Morocco	1,446	4,247	1,807	2,670	2,387	2,004
Mozambique	134	87	125	108	94	<i>n.a.</i>
South Africa (a)	4,394	5,058	1,174	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Costa Rica	855	1,203	101	209	134	176
Cuba	1,583	2,987	182	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Guatemala	241	301	275	188	301	657
Mexico	8,299	9,943	9,193	8,952	13,201	12,897
United States	99,954	95,717	104,568	81,925	104,309	82,229
Argentina	5,330	6,353	10,452	9,213	10,494	11,411
Brazil	195	233	110	93	472	909
Chile	113	290	241	256	<i>n.a.</i>	<i>n.a.</i>
Colombia	3,078	3,368	3,180	1,964	4,579	2,219
Ecuador	29	56	5	9	<i>n.a.</i>	<i>n.a.</i>
Peru	552	555	1,827	1,199	1,603	3,488
Uruguay	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,186	1,588	1,618
Venezuela	6,306	4,078	5,976	5,345	5,566	6,375
Indonesia	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Iran (c)	281	191	519	346	422	639
Japan	35,407	48,291	52,920	59,119	78,928	102,286
Philippine Republic	1,331	2,237	2,812	4,166	<i>n.a.</i>	<i>n.a.</i>
Turkey	1	66	7	7	17	25

(a) Including Cornish or China stone.

(c) Years ended March 20 following that stated.

(b) Excess of re-exports.

(d) Years ended June 30 of that stated.

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

Long ton:

Producing Country	Estimated Cr ₂ O ₃ content					
	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Rhodesia ..	453,294	368,209	440,510	f 625,062	e 500,000	n.a.
Sierra Leone ..	11,269	2,738	—	—	—	—
Cyprus (a) ..	6,435	4,831	—	4,911	10,451	21,035
India ..	65,000	64,015	34,417	58,742	76,430	107,805
Pakistan (c) ..	21,135	14,306	13,290	14,261	26,718	(e) 30,000
Australia ..	369	160	72	23	—	—
TOTAL ..	557,502	454,259	488,289	703,000	600,000	659,000
OTHER COUNTRIES						
Albania ..	247,328	288,980	301,976	e r 305,000	e 308,000	e 312,000
Greece ..	55,359	50,371	39,466	41,725	45,596	10,257
U.S.S.R. (e) ..	1,130,000	1,210,000	1,300,000	1,400,000	1,400,000	1,500,000
Yugoslavia ..	95,512	92,289	86,963	78,590	53,355	46,417
Malagasy Republic ..	19,000	11,000	11,584	2,346	—	—
South Africa ..	898,369	779,654	836,132	927,230	1,044,186	1,130,906
Sudan ..	8,000	17,000	(b) 17,000	(e) 30,000	17,000	18,000
Cuba ..	(e) 35,000	55,000	32,000	(e) 29,000	(e) 29,000	(e) 29,000
Guatemala ..	38	—	—	—	—	—
Brazil ..	24,447	43,344	25,384	31,543	23,856	14,788
Colombia ..	138	108	394	260	—	—
Iran (d) ..	108,000	96,000	e 120,000	e 150,000	147,000	e 180,000
Japan ..	57,165	43,040	43,261	41,173	32,314	44,497
Philippine Republic ..	522,834	451,870	460,696	545,764	551,264	413,124
Turkey ..	461,739	397,511	406,167	558,106	503,564	365,276
New Caledonia ..	15,211	—	—	—	—	1,795
TOTAL ..	3,700,000	3,500,000	3,700,000	4,200,000	4,200,000	4,000,000
World's Total ..	4,300,000	4,000,000	4,200,000	4,900,000	4,800,000	4,700,000

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

(a) Figures relate to saleable production.

(b) Years ended March 20 following that stated.

(c) West Pakistan.

(d) Estimated.

(e) United States Bureau of Mines' estimate.

(f) Exports.

EXPORTS OF CHROME ORE, ETC.

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Chromium metal ..	267	442	616	595	1,527	639
Rhodesia (c)—						
Ore	385,430	275,217	448,477	625,062	<i>n.a.</i>	<i>n.a.</i>
Ferro-chrome	7,839	9,838	22,332	20,939	<i>n.a.</i>	<i>n.a.</i>
Sierra Leone—						
Ore	9,357	8,700	—	—	—	—
Canada—						
Ferro-chrome	5,895	2,598	154	183	31	—
Cyprus—						
Ore and concentrates ..	9,526	400	9,150	2	2,501	26,948
India (a)—						
Ore	17,241	11,469	30,468	25,025	68,717	65,980
Pakistan—						
Ore	9,648	3,893	22,398	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
OTHER COUNTRIES						
Albania—						
Ore	264,900	243,900	305,800	292,900	<i>n.a.</i>	<i>n.a.</i>
Austria—						
Ore	632	407	635	841	486	508
France—						
Chromium metal ..	189	273	182	312	321	225
Ferro-chrome	15,070	17,605	17,717	19,419	24,934	20,662
Germany (Federal)—						
Ore	778	1,445	1,497	1,718	1,178	1,382
Chromium metal ..	47	54	52	39	79	97
Greece—						
Ore	19,228	15,085	22,153	29,051	20,345	13,226
Italy—						
Ore	—	1,476	2,038	—	14	47
Ferro-chrome	2,276	1,942	4,137	7,011	7,941	7,498
Netherlands—						
Ore	1,103	1,453	1,252	986	1,686	3,268
Norway—						
Ferro-chrome	16,797	27,043	33,672	30,384	28,797	27,065
Ferro-silico-chrome ..	2,631	4,692	8,106	4,086	355	945
Sweden—						
Ore	—	<i>n.a.</i>	—	—	—	—
Ferro-chrome	17,057	22,613	20,231	18,685	22,555	22,979
U.S.S.R.—						
Ore	464,500	558,000	652,500	736,000	905,000	1,013,733
Ferro-chrome	15,700	3,100	15,200	24,400	29,300	31,000
Yugoslavia—						
Ore and concentrates ..	29,668	23,142	23,508	13,443	12,864	6,811
Ferro-chrome	5,763	7,184	6,906	9,948	9,090	8,028
Malagasy Republic—						
Ore	18,706	12,795	6,892	7,677	1	—
South Africa—						
Ore	779,084	595,090	628,122	690,143	812,628	690,054
Sudan—						
Ore	—	303	11,000	—	<i>n.a.</i>	<i>n.a.</i>
Cuba—						
Ore	<i>r</i> 28,057	<i>r</i> 499	<i>r</i> 17,730	<i>r</i> 30,201	<i>n.a.</i>	<i>n.a.</i>
United States—						
Ore	2,398	8,684	5,684	6,292	16,614	6,780
Chromium metal ..	16	10	41	198	116	82
Ferro-chrome	2,745	2,354	8,957	10,716	6,828	12,012
Iran (b)—						
Ore	72,593	89,804	122,512	157,325	129,743	87,368

(a) Years ended March 31 following that stated.

(b) Years ended March 20 following that stated.

(c) Figures for years 1962 and 1963 relate to Rhodesia and Nyasaland.

EXPORTS OF CHROME ORE, ETC. (cont.)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Japan—						
Ore and concentrates ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,513	<i>n.a.</i>	5
Ferro-chrome	12,288	7,838	3,800	23,358	21,904	6,228
Philippine Republic—						
Ore and concentrates ..	435,306	476,158	578,000	536,678	568,856	417,639
Turkey—						
Ore	344,054	209,305	338,700	417,526	500,687	309,346
Ferro-chrome	<i>n.a.</i>	1,348	5,770	5,852	7,251	<i>n.a.</i>
New Caledonia—						
Ore	14,773	17,672	5,899	—	—	1,216

IMPORTS OF CHROME ORE, ETC.

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore	116,341	158,971	222,235	200,982	185,662	98,359
Ferro-chrome	24,510	34,458	47,254	60,894	50,065	44,627
Ferro-silicon-chrome	3,043	3,848	4,473	4,495	4,133	5,998
Zambia—						
Ore	<i>n.a.</i>	<i>n.a.</i>	395	279	513	848
Canada—						
Ore	64,258	44,334	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
(Cr content)	<i>n.a.</i>	<i>n.a.</i>	18,566	31,614	18,643	30,790
Ferro-chrome	<i>n.a.</i>	<i>n.a.</i>	9,359	13,693	11,193	19,411
India—						
Ore	1,500	—	—	1	1	5
Ferro-chrome (a)	656	477	1,280	861	519	1,185
Australia—						
Ore	8,538	16,128	32,212	8,079	4,025	25,115
Ferro-chrome	1,974	2,713	2,993	5,864	2,420	3,430
OTHER COUNTRIES						
Austria—						
Ore	61,551	46,413	49,480	40,572	47,310	36,405
Ferro-chrome	9,523	12,073	15,037	15,240	16,053	14,420
Belgium-Luxemburg						
E.U.—						
Ore	449	1,015	1,412	972	1,683	2,098
Chromium metal	14	71	28	14	12	27
Ferro-chrome and silico-chrome	4,672	4,469	6,950	6,325	6,571	6,721
Denmark—						
Ferro-chrome	413	308	347	414	480	401
Finland—						
Ferro-chrome	1,153	995	457	1,340	1,090	1,000
France—						
Ore	158,279	151,235	190,339	220,747	233,614	244,920
Ferro-chrome	942	889	2,252	2,627	2,782	1,150
Germany (Federal)—						
Ore	224,520	171,740	232,954	300,734	303,459	280,164
Chromium metal	38	74	67	70	41	89
Germany (East)—						
Ore (b)	34,310	16,250	29,791	29,607	29,123	34,959
Hungary—						
Ore	26,323	35,373	29,213	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ferro-chrome	4,035	5,632	4,215	4,556	10,254	9,303
Italy—						
Ore	55,608	44,031	79,112	98,684	110,486	93,326
Chromium metal	19	29	21	39	32	58
Ferro-chrome	10,118	14,753	16,711	14,673	24,291	23,336
Netherlands—						
Ore	2,302	2,657	2,728	4,491	3,690	5,858
Chromium metal	14	16	17	29	6	9
Ferro-chrome	438	376	820	2,208	2,551	1,106
Norway—						
Ore	49,946	31,755	107,660	75,383	68,786	62,021
Poland—						
Ore	<i>n.a.</i>	84,000	115,500	152,801	141,928	147,865
Spain—						
Ore	19,348	14,889	18,001	29,108	28,694	15,736
Ferro-chrome	1,656	1,873	2,143	1,899	2,342	1,485
Sweden—						
Ore	104,136	113,336	149,654	139,237	156,276	138,496
Chromium metal	32	105	162	105	150	226
Ferro-chrome	3,060	4,075	7,516	23,407	16,889	13,744

(a) Years ended March 31 following that stated.

 (b) Cr₂O₃ content.

IMPORTS OF CHROME ORE, ETC. (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Yugoslavia—						
Ore	36,282	58,040	59,031	53,855	39,534	53,111
South Africa—						
Ore	<i>n.a.</i>	<i>n.a.</i>	47,795	77,931	96,379	82,929
Mexico—						
Ferro-chrome	630	853	573	453	318	379
United States—						
Ore	1,290,692	1,242,068	1,274,796	1,350,663	1,664,643	1,220,415
<i>(Cr₂O₃ content)</i>	<i>547,832</i>	<i>540,490</i>	<i>576,512</i>	<i>617,046</i>	<i>750,760</i>	<i>505,482</i>
Ferro-chrome	32,425	25,931	23,321	49,216	87,500	56,574
<i>(Cr content)</i>	<i>22,144</i>	<i>17,808</i>	<i>15,800</i>	<i>33,001</i>	<i>59,151</i>	<i>34,351</i>
Metal and alloys	578	860	654	902	2,221	1,084
Brazil—						
Ore	4,148	—	—	—	2,005	6,116
Ferro-chrome	895	985	472	243	1,174	777
Chile—						
Ferro-chrome	60	174	340	316	<i>n.a.</i>	<i>n.a.</i>
Formosa—						
Ore	<i>n.a.</i>	156	<i>n.a.</i>	266	866	<i>n.a.</i>
Japan—						
Ore	250,856	222,938	390,166	354,609	415,210	586,285
Ferro-chrome	530	2,008	5,581	492	197	6,247
Turkey—						
Ferro-chrome	46	56	20	—	—	19

COAL, COKE AND BY-PRODUCTS

PRODUCTION OF COAL

(Including Brown Coal and Lignite)

Long tons

Producing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Great Britain—						
Mined—						
Anthracite	3,136,200	3,327,000	3,468,200	2,941,000	2,800,000	2,671,000
Bituminous	186,192,300	186,329,700	183,349,300	177,226,000	164,755,900	162,388,000
Opencast—						
Anthracite	766,100	832,200	1,129,900	1,262,000	1,612,500	1,375,800
Bituminous	7,341,500	5,305,700	5,679,600	6,070,300	5,413,700	5,708,900
Northern Ireland—						
Bituminous	12,165	9,115	6,831	4,542	3,630	2,024
Nigeria—						
Sub-bituminous	623,948	586,130	663,816	728,336	630,125	n.a.
Rhodesia—						
Bituminous	2,781,230	2,697,222	2,720,646	a 2,989,692	a 3,008,812	a 2,695,712
Swaziland—						
Anthracite	—	—	4,009	29,493	65,705	76,730
Tanzania—						
Bituminous	3,024	2,051	746	r 2,358	2,488	1,688
Zambia—						
Bituminous	—	—	—	—	112,324	387,000
Canada—						
Bituminous	5,831,511	6,292,719	6,446,761	6,223,153	6,005,106	6,003,467
Sub-bituminous	1,336,760	1,477,047	1,879,386	2,281,029	2,310,433	2,378,324
Lignite	2,014,559	1,672,818	1,780,392	1,842,797	1,855,504	1,792,989
India—						
Bituminous	60,400,763	64,914,000	61,454,000	66,100,000	66,890,000	67,145,000
Lignite	207,420	983,449	1,544,392	2,263,962	2,528,000	2,882,000
Pakistan—						
Lignite	979,327	1,223,000	1,195,000	1,212,000	n.a.	n.a.
Australia—						
Semi-anthracite	69,301	60,603	78,947	70,342	46,000	39,000
Bituminous	22,006,032	22,268,206	24,477,232	28,227,762	30,081,000	31,398,000
Sub-bituminous	2,394,186	2,527,531	2,845,031	3,140,439	3,244,000	3,341,000
Brown coal	17,137,438	18,456,445	19,034,792	20,658,856	21,782,977	23,387,000
New Zealand—						
Anthracite	653	233	147	65	218	183
Bituminous	700,427	660,869	681,683	663,222	632,269	584,996
Sub-bituminous	1,700,856	1,919,892	2,038,253	1,837,884	1,796,643	1,617,410
Lignite	148,260	161,417	156,889	157,863	165,339	166,635
TOTAL	315,784,000	321,707,000	320,636,000	325,934,000	317,000,000	317,000,000
Irish Republic—						
Anthracite						
including dust	129,963	146,751	150,665	130,296	138,250	109,380
Semi-bituminous	74,739	82,517	76,200	65,460	62,746	69,610
OTHER COUNTRIES						
Albania—						
Brown coal and lignite	296,240	248,178	287,020	295,000	344,000	n.a.
Austria—						
Bituminous	97,786	101,887	101,697	57,685	20,173	13,670
Brown coal	5,621,385	5,957,434	5,669,741	5,364,275	5,199,547	4,531,252
Belgium—						
Anthracite	5,638,991	5,889,540	5,966,672	} 19,473,620	17,222,932	16,175,276
Bituminous	15,229,885	15,187,810	15,001,362			

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

PRODUCTION OF COAL (cont.)

Long tons

Producing Country and Description	1962	1963	1964	1965	1966	1967	
OTHER COUNTRIES							
<i>(cont.)</i>							
Bulgaria—							
Anthracite and bituminous	620,000	646,000	589,000	543,000	483,000	(c) 458,000	
Brown coal and lignite..	19,890,000	20,918,000	23,346,000	24,082,000	24,264,000	c28,000,000	
Czechoslovakia—							
Bituminous	26,720,000	27,735,000	27,756,000	27,188,000	26,306,000	25,700,000	
Brown coal	64,778,000	68,231,000	70,343,000	67,952,000	68,752,000	} 69,600,000	
Lignite	3,609,000	3,914,000	4,068,000	4,108,000	4,186,000		
Denmark—							
Lignite	2,516,000	2,472,000	2,160,000	2,094,000	c 2,000,000	c 1,400,000	
France—							
Anthracite and bituminous	51,542,439	47,007,259	52,204,523	50,536,672	49,542,834	46,872,000	
Lignite	2,836,391	2,432,290	2,208,653	2,647,157	2,523,340	2,885,000	
Germany—							
Federal Republic (b)—							
Anthracite	7,942,384	8,822,263	9,342,760	9,110,385	8,798,791	} 110,273,000	
Bituminous (a) ..	131,009,800	131,099,458	130,659,149	123,872,700	115,209,704		
Pechkohle	1,732,211	1,812,180	1,839,293	1,707,818	1,141,435		876,272
Brown coal	99,581,347	104,975,646	109,190,748	100,297,899	96,540,870		95,239,053
East Germany—							
Bituminous	2,534,000	2,444,000	2,303,000	2,177,000	1,956,000	1,761,000	
Brown coal	243,091,000	250,204,000	252,868,000	246,877,000	245,107,000	238,205,000	
Greece—							
Lignite	2,651,955	3,470,089	3,797,808	5,000,059	4,889,844	5,151,497	
Hungary—							
Bituminous	3,287,982	3,651,202	4,060,242	4,293,000	4,291,000	3,989,000	
Brown coal	20,322,146	21,586,504	22,009,507	21,840,000	21,222,000	19,282,000	
Lignite	4,588,627	4,760,046	4,980,300	4,808,000	4,355,000	3,332,000	
Italy—							
Anthracite	16,300	13,800	9,336	5,504	84	—	
Bituminous	665,328	563,005	454,689	377,807	411,203	403,926	
Brown coal	1,747,896	r 1,343,971	1,184,023	r 994,833	1,049,395	2,166,464	
Netherlands—							
Bituminous and anthracite	11,390,000	11,327,000	11,299,000	11,265,000	9,893,000	7,938,000	
Poland—							
Bituminous	107,900,000	111,400,000	115,500,000	116,900,000	120,000,000	121,900,000	
Brown coal	10,916,000	15,102,000	19,960,000	22,269,000	24,121,000	23,544,000	
Portugal—							
Anthracite	398,714	409,000	437,000	420,809	411,585	435,735	
Brown coal	150,182	140,000	99,000	88,270	49,926	37,996	
Roumania—							
Anthracite and bituminous ..	370,000	390,000	(e)	(e)	(e)	} 14,782,000	
Lignite	3,625,000	3,990,000	4,588,000	5,375,000	6,400,000		
Brown coal	5,443,000	5,725,000	(f)6,359,000	(f)6,529,000	(f)6,838,000		
Spain—							
Anthracite	2,601,083	2,729,021	2,638,154	r 2,730,912	2,707,000	2,805,000	
Bituminous	9,893,054	9,975,270	9,365,202	r10,007,734	10,029,000	9,650,000	
Lignite	2,448,857	2,550,084	2,562,745	r 2,729,071	2,643,000	2,608,000	
Spitzbergen—							
Bituminous—							
Norwegian mines ..	465,380	376,359	435,092	418,903	426,912	419,882	
Russian mines (d) ..	361,007	364,484	n.a.	n.a.	n.a.	n.a.	

(a) Including Stockheim hard coal.

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

Hard coal: 1962—705,739; 1963—608,898; 1964—448,281; 1965—341,242; 1966—276,976; 1967—217,024.

Brown coal: 1962—70,788; 1963—13; 1964—96; 1965—nil; 1966—nil; 1967—20.

(c) Estimated.

(d) Exports.

(e) Included with brown coal.

(f) Including anthracite and bituminous.

PRODUCTION OF COAL (cont.)

Long tons

Producing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Sweden—						
Bituminous	145,848	97,837	83,147	57,925	39,500	11,200
U.S.S.R.—						
Bituminous and						
anthracite	380,329,000	388,891,000	402,412,000	421,123,000	432,234,000	439,000,000
Lignite	128,907,000	134,433,000	142,835,000	147,483,000	144,121,000	149,000,000
Yugoslavia—						
Bituminous	1,169,000	1,267,000	1,290,000	1,173,000	1,114,000	895,000
Brown coal and lignite	23,133,000	25,672,000	27,805,000	28,333,000	27,719,000	25,154,000
Algeria (Sahara)—						
Bituminous and						
anthracite	52,000	39,000	45,000	44,000	(c) 50,000	(c) 50,000
Congo Republic—						
Bituminous	75,049	90,400	98,000	112,000	108,000	131,000
Egypt—						
Bituminous	—	—	—	20,000	(c) 20,000	n.a.
Malagasy Republic—						
Bituminous	—	2,000	3,800	1,786	—	—
Morocco—						
Anthracite	360,000	397,800	400,000	411,900	444,000	474,000
Mozambique—						
Bituminous	292,903	278,341	241,000	233,748	267,000	278,000
South Africa—						
Anthracite	} 40,623,162	41,783,891	44,207,819	{ 1,226,985	1,059,838	1,259,387
Bituminous .. ..							{ 46,467,805	46,124,711	47,262,423
Greenland—						
Bituminous	26,000	39,000	24,000	20,000	33,000	31,000
Mexico—						
Bituminous	1,863,000	2,038,000	2,093,000	1,974,000	2,068,000	2,125,000
United States—						
Anthracite	15,083,612	16,310,164	15,343,081	13,273,174	11,554,700	10,942,913
Bituminous	374,191,126	407,342,048	432,185,946	454,504,502	473,214,822	489,407,000
Lignite	2,727,914	2,415,251	2,633,654	2,717,161	3,464,829	4,009,000
Argentina—						
Lignite	281,200	246,400	326,800	368,083	350,971	398,396
Brazil—						
Bituminous and lignite	2,468,371	2,783,781	2,942,775	3,087,612	3,327,031	4,039,301
Chile—						
Bituminous	1,824,910	1,757,760	1,754,349	1,700,000	1,626,124	1,472,434
Columbia—						
Bituminous	3,000,000	3,100,000	3,000,000	3,000,000	a 2,500,000	3,000,000
Peru—						
Anthracite	22,114	9,448	31,236	7,608	} 67,000	{ 5,000
Bituminous	138,162	119,639	113,525	119,286			{ 167,357
Venezuela—						
Bituminous	27,002	41,679	36,011	30,803	33,536	33,914
Afghanistan (b)—						
Bituminous	110,000	96,000	111,000	144,000	139,000	n.a.
Burma	2,515	3,000	10,000	10,000	(c) 10,000	n.a.
China (c)	245,000,000	270,000,000	290,000,000	300,000,000	320,000,000	220,000,000
Formosa—						
Bituminous	4,481,663	4,734,072	4,948,248	4,974,635	4,935,335	4,998,000
Indonesia—						
Bituminous	464,000	582,016	439,000	384,000	314,778	205,969
Iran (b)—						
Bituminous	157,000	190,000	270,000	271,000	(c) 300,000	n.a.
Japan—						
Anthracite	1,843,000	1,770,000	1,682,000	1,604,000	1,588,000	1,492,000
Bituminous	51,695,000	49,459,000	48,443,000	47,148,000	48,948,000	45,733,000
Lignite	1,093,546	899,910	680,139	564,000	445,000	359,000

(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	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Korea (South)—						
Anthracite	7,326,400	8,718,200	9,469,600	10,086,400	11,429,900	12,239,800
Korea (North)	12,991,000	13,818,000	14,300,000	17,500,000	19,200,000	20,000,000
Mongolia	847,000	834,000	613,000	970,000	(b)1,000,000	n.a.
Philippine Republic—						
Bituminous	160,404	154,063	113,121	93,048	88,195	62,374
Thailand—						
Lignite	133,089	134,910	101,996	122,996	168,429	n.a.
Turkey—						
Bituminous	6,389,093	6,692,866	7,037,000	6,905,000	(b)7,300,000	7,350,000
Lignite	4,167,776	4,912,924	5,812,000	6,197,000	(b)6,200,000	6,471,000
Vietnam (North)—						
Anthracite	3,413,000	3,294,000	3,300,000	(a)3,500,000	(a)3,500,000	(a)3,000,000
Vietnam (South)—						
Anthracite	70,000	102,455	71,621	—	—	—
TOTAL	2,190,000,000	2,290,000,000	2,390,000,000	2,430,000,000	2,470,000,000	2,360,000,000
WORLD'S TOTAL ..	2,510,000,000	2,610,000,000	2,710,000,000	2,760,000,000	2,790,000,000	2,677,000,000

(a) Estimated.

(b) United States Bureau of Mines' estimate.

PRODUCTION OF COKE

Long tons

Producing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Great Britain—						
Gas-works—coke (a) ..	9,729,000	9,719,000	8,801,000	7,769,000	7,202,000	6,198,000
breeze (a) ..	2,377,000	2,358,000	2,169,000	1,988,000	1,800,000	1,591,000
Coke-ovens—coke ..	15,536,000	15,485,000	16,857,000	17,073,000	16,117,000	15,322,000
breeze ..	1,175,000	1,222,000	1,343,000	1,392,000	1,365,000	1,317,000
Rhodesia	(e) 107,062	(e) 104,784	(e) 132,771	(f) 171,855	(f) 200,163	(f) 171,660
Canada (c)	3,590,870	3,822,140	3,877,662	3,900,706	3,951,831	3,955,624
Hong Kong—						
Gas-works (c)	16,839	14,719	13,000	13,000	10,000	9,000
India—						
Gas-works	122,920	106,370	68,215	63,288	64,434	65,974
Hard	6,937,252	8,240,000	7,202,827	7,850,000	8,030,645	7,470,000
Soft	2,064,961	2,255,024	2,171,662	2,570,000	2,834,721	2,756,000
Australia (d)—						
Coke—gas-works ..	761,355	694,575	693,361	632,501	559,301	551,326
coke-ovens ..	2,716,894	2,759,060	2,915,005	3,118,262	3,178,856	3,365,000
Breeze	456,719	379,183	417,949	471,787	492,801	521,426
New Zealand (b)—						
Gas-works	76,920	79,000	68,000	66,000	55,000	n.a.
Irish Republic—						
Gas-works (c)	120,011	126,228	128,758	124,567	103,585	91,370
OTHER COUNTRIES						
Austria—						
Gas-works	310,203	337,662	307,792	281,203	220,000	210,000
Coke-ovens	1,628,056	1,608,145	1,582,661	1,523,786	1,451,000	1,400,000
Belgium—						
Gas-works	2,000	2,000	2,000	2,000	n.a.	n.a.
Coke-ovens	7,047,834	7,090,494	7,281,000	7,220,000	6,851,000	6,752,000
Bulgaria	7,671	126,365	463,085	721,027	787,630	n.a.
Czechoslovakia—						
Hard coke	8,789,000	9,152,000	9,272,000	9,346,000	9,316,000	9,160,000
Brown-coal coke ..	2,078,000	2,081,000	1,899,000	1,666,000	1,745,000	1,792,000
Denmark (gas-works) ..	411,000	405,000	344,000	259,000	287,000	n.a.
Finland	159,612	154,813	n.a.	140,000	151,000	134,000
France—						
Gas-works (e)	243,000	136,000	60,000	20,000	14,200	12,000
Coke-ovens	13,305,091	13,251,173	13,784,875	13,196,915	12,743,534	12,237,000
Semi-coke	265,028	266,952	291,611	237,166	244,714	194,000
Germany (Federal)—						
Gas-works	4,882,000	4,746,000	4,834,000	4,086,000	3,520,000	2,860,000
Coke-ovens—hard coke	42,514,000	41,233,000	42,664,000	42,610,000	39,260,000	34,669,000
do. brown-coal coke ..	591,000	591,000	587,000	569,000	534,000	388,000
Germany (East)—						
Hard coke	3,073,000	3,210,000	3,344,000	3,158,000	3,141,000	2,875,000
Brown-coal coke ..	7,540,000	7,448,000	7,488,000	7,226,000	7,207,000	6,848,000
Greece (gas-works) ..	22,000	21,000	17,886	16,966	17,341	n.a.
Hungary—						
Gas-works	458,000	432,000	420,000	460,000	450,000	n.a.
Coke-ovens—hard coke	742,000	757,000	764,000	765,000	771,000	n.a.
do. brown-coal coke	41,000	45,000	41,000	45,000	42,000	n.a.
Italy—						
Gas-works	763,270	713,377	533,067	379,618	334,236	312,278
Coke-ovens	4,259,293	4,522,230	4,608,932	5,646,098	6,168,226	6,147,479
Luxemburg—						
Gas-works	35,000	35,000	* 28,000	13,000	n.a.	n.a.

(a) Excluding coke used for heating retorts.

(e) Sales.

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

(c) Including coke-breeze.

of that stated.

(d) Years ended June 30 of that stated.

PRODUCTION OF COKE (cont.)

Long tons

Producing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Netherlands—						
Gas-works	197,000	174,000	107,000	96,000	59,000	17,322
Coke-ovens	4,206,000	4,203,000	4,443,000	4,218,100	3,767,500	3,261,700
Norway—						
Gas-works	44,264	57,314	127,820	21,115	<i>n.a.</i>	<i>n.a.</i>
Coke-ovens	—	—	106,000	255,800	261,705	284,413
Poland—						
Gas-works	1,079,100	1,137,100	1,176,800	1,244,000	1,268,600	1,255,800
Coke-ovens	11,822,000	12,522,000	12,819,000	12,986,000	13,263,000	13,704,000
Portugal (gas-works) ..	30,456	24,941	9,658	13,000	10,000	<i>n.a.</i>
Roumania—						
Coke-ovens	1,100,858	1,123,000	1,128,000	1,117,000	1,086,000	1,113,000
Spain—						
Gas-works	228,171	196,341	176,712	98,306	76,600	<i>n.a.</i>
Coke-ovens	2,695,066	2,709,014	2,528,752	2,711,673	2,563,000	2,840,000
Sweden (a)	907,634	885,871	893,554	882,735	1,011,331	^a 1,030,000
Switzerland—						
Gas-works	488,483	519,651	461,749	445,157	402,161	348,340
U.S.S.R. (a)	59,967,000	62,864,000	65,235,000	66,397,000	67,418,000	^d 68,000,000
Yugoslavia—						
Gas-works	17,300	17,000	17,000	14,000	18,000	7,129
Coke-ovens	1,090,000	1,073,000	1,142,000	1,233,000	1,192,000	1,200,000
Algeria (gas-works) ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Libya—						
Gas-works (b)	5,000	5,000	5,000	5,000	5,000	5,000
South Africa—						
Gas-works	100,571	102,776	95,014	688,162	104,000	114,000
Coke-ovens	2,168,490	2,250,338	2,353,606	2,024,865	3,197,000	4,055,000
Mexico (coke-ovens) ..	767,807	753,067	773,716	811,123	851,757	1,014,177
United States—						
Coke-ovens—						
Coke	45,623,589	47,596,079	54,382,492	58,212,074	58,892,230	56,942,000
Breeze and screenings	3,057,786	3,222,148	3,483,971	3,604,700	3,582,464	3,593,000
Beehive—						
Coke	724,886	866,695	1,103,828	1,479,409	1,287,761	720,000
Breeze and screenings	38,779	26,434	19,985	38,607	32,317	19,000
Other coke	147,000	143,000	181,000	133,000	150,000	146,000
Brazil—						
Gas works	(<i>d</i>)280,000	(<i>d</i>)280,000	(<i>d</i>)280,000	216,000	220,000	202,000
Coke-ovens	709,000	660,000	898,000	890,000	932,000	1,300,000
Chile	293,800	304,959	324,067	299,848	<i>n.a.</i>	<i>n.a.</i>
Colombia	<i>n.a.</i>	393,683	452,681	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Peru	38,876	37,841	25,164	26,969	34,000	40,550
Uruguay (gas-works)—						
Coke	22,194	20,825	20,521	19,254	20,648	20,946
Breeze	3,823	2,842	3,642	3,611	1,788	1,633
China (<i>d</i>)	15,000,000	15,000,000	15,000,000	16,000,000	17,000,000	13,000,000
Formosa	226,795	229,801	241,755	252,448	253,180	248,336
Iran (<i>c</i>)	13,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Gas-works	3,399,336	3,320,990	3,662,204	3,612,000	3,654,000	4,100,000
Coke-ovens	8,751,877	9,108,116	10,369,434	} 14,764,000	16,763,000	21,000,000
Beehive, etc.	2,614,015	2,767,438	3,110,941			
Korea (North) (<i>d</i>) ..	1,100,000	1,200,000	1,400,000	1,600,000	1,800,000	1,800,000
Korea (South)	35,000	—	—	—	—	<i>n.a.</i>
Turkey—						
Gas-works	150,000	166,000	170,000	114,000	175,000	178,000
Coke-ovens	505,000	810,000	845,000	1,223,000	1,102,000	1,265,000
Semi-coke	83,000	78,000	78,000	71,000	71,000	71,000

(a) Including coke-breeze.

(d) United States Bureau of Mines' estimate.

(b) Estimated.

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

PRODUCTION OF BRIQUETTES

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Great Britain	1,548,000	1,652,000	1,330,000	907,000	936,000	957,000
Canada	50,000	65,000	53,494	62,000	51,375	37,056
Australia—						
Brown-coal briquettes ..	(a)1,819,954	1,887,000	1,856,000	1,903,000	1,859,000	1,844,000
New Zealand	11,829	12,645	14,690	17,764	18,520	19,369
OTHER COUNTRIES						
Belgium	1,576,008	2,257,983	1,397,094	1,057,322	946,073	854,926
Czechoslovakia—						
Coal briquettes	—	—	—	—	—	n.a.
Brown-coal briquettes ..	775,000	766,000	772,000	779,000	782,000	899,000
Denmark—						
Brown-coal briquettes ..	41,458	53,390	58,474	23,911	n.a.	n.a.
France	6,839,514	7,887,216	6,532,907	5,720,445	4,981,534	4,763,000
Germany (Federal)—						
Coal briquettes	5,573,939	6,268,739	5,326,113	4,472,387	3,941,825	3,521,689
Brown-coal briquettes ..	15,520,870	15,584,213	15,113,594	12,481,957	11,641,945	10,887,781
Germany (East)—						
Brown-coal briquettes ..	58,784,000	59,304,000	60,533,000	59,426,000	58,487,000	55,201,000
Hungary—						
Coal briquettes	1,108,012	1,102,860	1,126,810	1,324,000	} 1,331,000	1,051,000
Brown coal semi-coke briquettes	62,549	103,818	153,556	84,000		
Netherlands—						
Coal briquettes	1,346,000	1,536,000	1,334,000	1,229,000	1,108,500	1,073,966
Brown-coal briquettes ..	69,700	62,000	65,000	45,000	42,000	28,000
Poland—						
Coal briquettes	644,000	629,000	613,000	603,000	562,000	544,000
Brown-coal briquettes ..	340,000	350,000	370,000	330,000	359,000	343,000
Portugal	44,304	44,050	40,517	33,652	37,518	36,754
Spain	1,217,769	1,173,692	1,037,216	830,399	600,598	n.a.
Algeria	(b) 16,000	—	—	—	—	n.a.
United States (c) ..	508,949	492,149	320,743	322,084	(b) 300,000	n.a.

(a) Years ended June 30 of that stated.

(b) Estimated.

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

1962—15,571; 1963—12,692; 1964—8,323; 1965—7,447; 1966—(b) 8,000; 1967—n.a.

PRODUCTION OF COAL BY-PRODUCTS*

Long tons

Producing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Great Britain—						
Tar (crude) distilled ..	2,570,000	2,583,000	2,564,000	2,401,000	2,341,000	2,152,000
Tar (refined)	566,000	574,000	632,000	564,000	563,000	580,000
Pitch	354,000	418,000	480,000	463,000	377,000	308,000
Motor benzol	123,000	110,000	118,000	100,000	93,300	69,000
Other motor spirits, etc.	6,700	6,000	6,000	—	—	—
Other refined light oils ..	224,000	236,000	260,000	244,000	219,000	221,000
Creosote-pitch mixture	1,020,000	1,008,000	829,000	796,000	846,000	737,000
Creosote oil	430,000	400,000	470,000	410,000	400,000	380,000
Naphthalene (crude) ..	72,100	73,500	81,800	81,600	81,100	77,700
Naphthalene (refined)	6,300	6,200	5,200	3,900	3,600	7,000
Pyridine bases	2,000	3,200	4,000	5,600	4,200	4,000
Natural phenol	16,300	16,600	19,400	18,400	18,200	17,300
Refined cresylic acid ..	66,000	70,200	67,000	67,900	64,200	62,800
Anthracene 40-50% ..	4,000	3,900	4,200	4,000	3,500	3,600
Rhodesia—						
Tar (crude)	(c) 6,575	(d) 3,999	(d) 2,945	(d) 3,009	(d) 3,342	(d) 4,540
Motor benzol	(c) 297	n.a.	n.a.	n.a.	n.a.	n.a.
Ammonia liquor	(c) 872	(d) 788	(d) 670	(d) 967	(d) 621	(d) 860
Canada—						
Tar (refined)	31,440	18,510	9,462	3,160	n.a.	n.a.
Pitch	80,000	78,000	89,000	78,000	n.a.	n.a.
Creosote oils	35,320	42,290	35,960	40,100	n.a.	n.a.
India (coke-ovens)—						
Tar	311,624	288,555	260,939	242,411	241,099	203,688
Benzol	5,965	8,877	8,067	9,994	9,269	9,725
Benzene	8,898	19,363	16,894	20,394	18,081	9,717
Toluol	192	218	157	194	205	206
Toluene	2,009	2,139	1,998	2,159	1,976	1,652
Xylene	298	506	183	150	125	1,030
Solvent naphtha	735	122	909	1,380	1,603	1,628
Pitch	45,110	53,384	72,004	69,383	67,219	88,577
Naphthalene	3,985	3,324	2,838	5,955	2,850	3,661
Ammonium sulphate ..	62,492	72,902	73,867	62,139	228,985	59,307
Light oil	3,741	5,749	4,350	5,633	6,167	3,045
Middle oil	7,606	10,233	7,124	5,373	3,060	2,403
Heavy oil (230-270°C.)	6,885	5,338	2,442	2,018	1,182	2,823
Anthracene oil	13,574	16,574	13,608	8,663	5,509	7,887
Australia—						
Tar (crude) (a)	291,709	276,343	279,712	282,560	289,430	274,774
Tar (refined) (a)	152,191	197,512	213,882	225,790	228,290	183,021
Tar oils (crude) (a) ..	18,948	15,771	12,447	n.a.	n.a.	n.a.
New Zealand (b)—						
Tar (gas-works)	12,046	11,550	11,300	12,000	12,300	n.a.
Irish Republic (gas-works)—						
Tar	17,036	14,187	15,997	14,196	10,038	13,000
OTHER COUNTRIES						
Belgium—						
Tar (crude)	272,163	272,463	278,163	277,557	251,530	250,098
Benzol (crude)	70,700	62,839	64,603	67,169	n.a.	n.a.

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

See page 87 for conversion rates.

See Nitrogen Compounds (pages 229-232) 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	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES (cont.)						
Belgium (cont.)—						
Benzol (motor)	} <i>n.a.</i>	} <i>n.a.</i>	} <i>n.a.</i>	} <i>n.a.</i>	} <i>n.a.</i>	} <i>n.a.</i>
do. industrial						
Benzene						
Toluol and xylol						
Solvent naphtha	14,362	14,964	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
France—						
Tar (crude)	637,773	645,835	651,471	614,947	593,853	<i>n.a.</i>
Ammonium sulphate	130,406	126,671	134,355	128,912	125,443	<i>n.a.</i>
Benzol (crude)	160,000	160,000	168,000	162,000	<i>n.a.</i>	<i>n.a.</i>
Pitch	194,970	203,624	229,142	229,936	224,964	<i>n.a.</i>
Naphthalene (crude)	49,813	24,572	24,507	31,156	9,954	<i>n.a.</i>
Germany (Federal)—						
Tar (crude)	1,965,000	1,925,000	1,953,646	1,922,542	1,758,640	<i>n.a.</i>
Pitch	964,507	974,942	967,136	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Tar oils	740,873	720,055	744,142	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Naphthalene	147,862	152,089	161,309	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Benzol (crude)	563,355	542,754	570,706	561,361	505,202	448,841
Refined benzols	605,233	561,786	567,974	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Phenol	18,935	17,886	17,641	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Cresol and xylol	25,198	24,060	20,284	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Anthracene	40,210	37,014	45,591	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Pyridine and bases	991	954	1,393	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Hungary—						
Brown coal tar	26,969	27,263	28,316	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Pitch	40,279	39,294	40,507	39,547	35,952	16,000
Benzol	5,034	6,153	6,258	6,094	6,793	7,506
Creosote	9,410	7,188	6,704	7,152	7,301	<i>n.a.</i>
Italy—						
Tar	215,422	217,063	202,033	241,584	249,582	239,967
Ammonium sulphate	42,325	44,317	43,349	50,854	59,664	<i>n.a.</i>
Benzol (crude)	35,563	44,317	43,010	56,538	58,685	58,062
Naphthalene (crude)	9,010	10,146	10,492	11,335	11,459	10,572
Distillates	70,759	74,423	64,926	65,515	63,089	70,868
Benzol (refined)	29,147	24,450	23,366	20,303	27,531	20,305
Toluol and xylol	6,584	6,183	6,056	5,086	8,468	8,167
Pitch	80,121	92,231	80,990	83,587	80,605	81,816
Solvent naphtha	1,465	1,306	1,176	1,074	1,167	1,286
Norway—						
Tar (gas-works)	4,767	3,490	3,017	31,364	<i>n.a.</i>	<i>n.a.</i>
Poland—						
Tar (coke-ovens)	522,900	540,600	547,900	556,600	578,900	590,800
Tar (gas-works)	81,100	82,400	83,000	94,100	90,300	88,200
Ammonium sulphate (coke-ovens)	130,500	132,000	140,000	144,000	148,100	150,600
Benzol (coke-ovens)	163,500	164,900	168,800	173,100	180,200	181,900
Portugal (gas-works)—						
Creosote	1,144	1,189	449	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Pitch	826	1,043	465	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Spain—						
Tar	135,188	134,160	124,423	r 126,306	125,000	<i>n.a.</i>
Pitch	28,116	28,254	28,543	31,852	40,575	21,653
Benzol	52,593	50,213	47,784	51,355	53,740	<i>n.a.</i>
Benzene	11,544	14,165	13,274	r 15,118	14,992	15,096
Toluol	1,850	1,604	1,798	1,912	1,926	2,126
Toluene	468	1,043	1,221	1,303	1,376	1,230
Xylene	387	887	767	650	610	530
Solvent naphtha	122	199	205	94	73	57
Anthracene	6,692	6,266	5,819	7,003	6,325	3,573
Naphthalene	5,947	9,069	6,869	6,718	6,589	<i>n.a.</i>
Ammonium sulphate	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Creosote	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

PRODUCTION OF COAL BY-PRODUCTS (cont.)

Long tons

Producing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Sweden—						
Tar (crude)	39,944	38,717	39,506	37,174	43,235	<i>n.a.</i>
Pitch	348	250	216	7	16	<i>n.a.</i>
Benzol, toluol, etc. .. .	12,269	12,319	12,149	10,410	10,525	<i>n.a.</i>
Distillates, etc. .. .						
Switzerland—						
Tar (crude) (gas-works)	27,071	28,903	26,064	25,393	23,965	19,683
Yugoslavia—						
Benzol	9,905	9,394	11,105	10,420	<i>n.a.</i>	12,134
Mexico—						
Benzol	4,039	5,108	<i>n.a.</i>	5,092	5,420	6,762
Ammonium sulphate .. .	9,178	8,715	<i>n.a.</i>	9,514	9,388	9,481
Creosote	9,823	10,577	<i>n.a.</i>	9,592	9,950	10,415
United States—						
Coke-ovens—						
Tar (crude)	2,778,255	2,871,263	3,260,331	3,430,503	3,426,783	3,334,000
Pitch	991,437	921,985	970,099	1,040,858	932,449	892,000
Sulphate equivalent of ammonia produced (a) .. .	598,777	641,766	708,846	717,641	769,649	745,000
Benzol	380,757	374,758	396,481	393,302	367,411	289,000
do. motor	4,802	7,815	2,322	10,556	9,970	11,000
Toluol and xylol .. .	113,754	106,806	106,666	103,127	94,492	81,000
Solvent naphtha .. .	13,731	11,413	14,371	17,373	10,130	12,000
Other light products	14,110	14,774	27,457	26,649	21,161	28,000
All sources (c)—						
Tar (crude)	2,778,255	2,871,263	3,260,331	3,430,503	3,426,783	3,334,000
Water gas and oil gas tar	82,419	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Crude light oil	705,627	727,220	828,897	875,670	875,465	840,000
Benzol (b)	427,553	405,083	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Toluol	98,732	94,765	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Xylol	24,760	24,170	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Solvent naphtha .. .	34,365	29,130	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Other light oil derivatives	29,750	38,147	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Naphthalene (crude)	189,377	151,212	190,040	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Creosote oil	360,460	389,330	449,492	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Tar, road	265,650	248,040	238,020	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Tar for other uses (d)	96,278	77,897	85,333	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Pitch of tar	1,678,000	1,596,000	1,676,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Pitch of tar coke .. .	16,000					
Uruguay (gas-works)—						
Tar	2,045	2,007	1,944	1,770	1,943	2,078
Benzol	165	151	196	189	142	207
Japan—						
Tar	1,075,477	1,128,400	1,239,994	1,358,000	1,475,000	1,666,000
Benzol (crude)	254,739	268,593	311,586	364,781	395,915	459,475
do. (other)	194,298	247,372	302,922	375,177	520,876	642,211
Toluol and xylol .. .	41,603	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Solvent naphtha .. .	8,906	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Creosote oil	249,116	264,622	279,234	303,458	303,496	350,000
Carbolic acid (crude) .. .	15,359	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Naphthalene (crude) .. .	58,028	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
do. (refined)	9,021	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Anthracene	12,568	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ammonium sulphate .. .	217,603	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

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

1962—522,661; 1963—553,286; 1964—607,935; 1965—619,011; 1966—681,938; 1967—658,000.

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

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

(d) Used for paints, etc.

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

Long tons

Producing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Turkey—						
Road tar	15,939	21,745	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Pitch	3,450	11,300	8,950	5,870	2,370	3,180
Benzol	4,074	5,145	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Toluol and xylol ..	446	657	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Solvent naphtha ..	53	131	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Creosote	2,705	6,905	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Anthracene	39	94	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ammonium sulphate ..	4,030	6,595	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Naphthalene	557	866	570	540	840	1,205

*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	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Anthracite—						
smalls and graded ..	1,016,834	1,583,838	1,161,166	827,295	652,456	573,746
large	111,494	180,938	133,088	87,840	24,401	11,415
other	272,002	523,492	378,066	272,382	99,623	53,286
Bituminous—						
smalls and graded ..	2,509,121	4,733,358	3,597,859	2,121,629	1,676,166	994,939
unscreened	203,095	305,432	179,279	122,410	42,235	25,077
large	219,702	204,335	152,894	153,983	118,587	109,053
other	379,933	344,606	268,018	209,438	155,051	82,103
Bunkers	53,510	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Coke, gas	722,664	518,885	410,686	357,296	384,183	332,669
do. other	1,004,325	1,500,718	1,056,819	636,247	584,182	426,818
Manufactured fuel ..	100,603	135,335	50,632	32,412	14,318	14,450
Tar	74,742	59,546	84,619	66,282	76,848	65,120
Pitch	210,065	291,688	195,179	186,829	173,916	147,135
Channel Islands (Jersey)						
Coke	15,210	14,332	13,560	16,301	13,274	953
Tar	3,709	3,821	3,171	2,602	2,896	1,304
Gibraltar—						
Coal (bunkers) (b) ..	547	494	410	20	5	—
Kenya—						
Coal (bunkers) (b) ..	156	216	1,775	638	45	10
Nigeria—						
Coal	32,199	8,031	7,894	210	240	8
Coke	—	8,125	14,300	15,036	869	—
Patent fuel	—	26,125	37,525	—	1,720	—
Rhodesia (e)—						
Coal	192,966	245,175	1,320,887	1,608,179	<i>n.a.</i>	<i>n.a.</i>
Coke	52,238	42,328	103,315	144,018	<i>n.a.</i>	<i>n.a.</i>
Canada—						
Coal	798,142	941,399	1,141,177	1,094,637	1,097,161	1,194,958
do. (bunkers) (c) ..	17,312	13,559	12,069	436	<i>n.a.</i>	<i>n.a.</i>
do. do. (a)	218,679	236,357	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Coke	112,521	121,711	88,853	63,867	69,600	58,296
Tar and pitch	26,876	77,004	45,659	30,237	29,948	37,183
Trinidad and Tobago—						
Coal (bunkers) (b) ..	18	12	—	11	14	4
Ceylon—						
Coal (bunkers) (b) ..	627	171	339	279	126	—
Hong Kong—						
Coke	20	49	30	150	62	180
India (d)—						
Coal	1,097,121	1,486,736	1,250,108	687,706	353,305	546,061
Coke	31	—	10,492	5,048	8,997	9,062
Tar and pitch	1,065	1,525	1,212	184	4	7
Singapore—						
Coke	321	1,302	434	693	507	942
Australia (f)—						
Coal	3,469,552	2,676,522	3,805,747	6,051,147	7,654,070	8,804,802
do. (bunkers)	37	1,703	86	23,978	41	457
Coke	78,359	30,986	79,432	106,750	110,430	80,064

*For Ammonium sulphate, etc. see Nitrogen Compounds, pages 233-234.

(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 1962 and 1963 exclude exports to Malawi and Zambia.

(f) Years ended June 30 of that stated.

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

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES (cont.)						
New Zealand—						
Coal	48	(c) 10	(c) 149	(c) 20	(c) 7	(c) 4
Coke	19	(c) 15	(c) 221	(c) 437	(c) 12	(c) 18
Tar	—	(c) 1	(c) 5	(c) —	(c) —	(c) —
Irish Republic—						
Anthracite	11,968	14,635	6,469	5,974	6,293	4,334
Other coal	27,940	142	101	725	1,514	2,200
Coal (bunkers) (a) ..	186	363	—	—	—	—
OTHER COUNTRIES						
Austria—						
Coal	28	36	27	22	17	20
Brown coal	19,643	19,780	16,280	9,809	9,274	15,120
Coke	9,952	81	24	28	10,433	47,518
Tar	—	407	400	76	62	1
Pitch	1,054	2,387	400	301	608	1,026
Belgium-Luxemburg E.U.—						
Coal	2,709,649	1,920,853	2,099,556	1,816,841	1,197,851	1,499,981
do. (bunkers) (b) ..	8,692	2,971	590	263	—	—
Coke	416,655	477,277	397,437	503,379	411,957	407,867
Briquettes	285,990	692,851	434,587	129,778	102,034	92,628
Tar	6,261	10,322	28,145	50,248	50,670	41,821
Pitch	23,292	26,189	15,168	6,371	17,382	57,132
Bulgaria—						
Coal	49,727	35,303	—	—	—	—
Czechoslovakia—						
Coal	2,347,000	2,296,000	2,547,000	2,340,000	2,044,000	2,291,000
Brown coal	1,522,000	1,764,000	1,388,000	1,166,000	1,125,000	1,210,000
Coke	1,545,000	1,730,000	1,858,000	1,806,000	2,359,000	2,136,000
Denmark—						
Coal	234	2,217	—	1	6	12
Brown coal briquettes	26,345	48,996	43,567	9,605	49	1
Coke	40,148	52,306	43,828	50,240	38,858	44,425
Tar and pitch	15,154	23,729	18,376	2,961	3,598	1,542
France—						
Anthracite	23,275	13,753	43,027	110,556	142,671	187,033
Bituminous	1,315,849	972,521	855,749	718,720	543,948	508,918
Brown coal	61	20	21,005	59,720	75,729	82,322
Coke	55,983	50,108	35,813	56,249	108,194	116,003
Briquettes	30,838	13,883	29,248	40,223	20,231	15,388
Brown coal briquettes	243	597	224	489	383	180
Tar and pitch	11,944	16,770	15,112	16,556	11,822	18,773
Germany (Federal)—						
Coal	17,572,444	16,093,365	13,502,765	13,078,608	15,545,381	17,165,557
do. (bunkers) (b) ..	53,940						17,863	10,860	2,052	1,651
Brown coal	222,951	199,061	207,957	156,313	142,941	105,190
Coke	10,151,115	11,881,974	10,752,600	9,575,755	8,173,301	7,501,993
Coal briquettes ..	395,102	447,634	379,560	272,880	214,126	169,514
Brown-coal briquettes	1,424,860	1,490,403	1,446,338	1,164,714	1,071,393	1,034,917
Tar and pitch	262,007	258,316	268,177	281,608	304,629	313,424
Germany (East)—						
Coal	591	571	467	—	—	—
Coke	113,000	112,000	120,000	123,000	73,000	66,000
Brown coal briquettes..	6,498,000	6,871,000	6,692,000	5,868,000	5,172,000	3,886,000

(a) Foreign coal (see imports).

(c) Years ended June 30 of that stated.

(b) Bunkers for foreign ships only.

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

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Hungary—						
Coal	52,199	148,507	80,719	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Italy—						
Coal (incl. bunkers) ..	4,634	23,762	4,162	1,588	3,578	2,690
Coke	170,791	146,419	99,263	118,260	151,288	214,737
Tar	—	3,115	587	142	560	281
Pitch	29,543	43,592	29,444	20,704	21,116	34,120
Netherlands—						
Coal	2,293,540	2,530,659	2,123,830	2,058,757	1,820,550	1,904,918
do. (bunkers) (a) ..	1,212	804	418	531	—	—
Brown coal	9	20	39	—	49	20
Coke	2,187,692	2,084,173	2,289,764	2,366,273	1,873,022	1,966,248
Briquettes	610,660	756,901	763,330	821,530	812,383	730,807
Brown coal briquettes ..	38,855	33,698	39,685	23,180	20,373	11,815
Tar	26,451	20,669	25,859	27,654	27,044	26,535
Pitch	8,783	15,207	6,979	8,237	3,891	2,409
Norway—						
Coal	177,146	172,473	82,968	135,391	128,030	138,141
Coke	4,149	8,679	3,842	98,037	48,710	48,023
Tar	1,928	3,965	6,214	12,583	17,586	16,040
Pitch	17	27	19	22	76	17
Poland—						
Coal	17,032,600	16,624,900	18,963,600	20,713,000	22,053,000	23,649,000
Brown coal	5,570,600	5,645,000	5,295,900	5,117,000	4,980,000	3,647,000
Coke	2,111,000	2,314,500	2,213,500	2,287,000	2,321,000	2,318,000
Pitch	<i>n.a.</i>	11,154	15,230	8,838	3,396	3,203
Portugal—						
Coal	102	124	167	124	104	41
do. (bunkers) (a) ..	1,523	802	30	52	3	<i>n.a.</i>
Tar and pitch	15	29	15	15	14	77
Spain—						
Anthracite	—	5,925	9	2,365	—	60
Bituminous (incl. bunkers)	15,353	1,639	2,279	127	1,416	1,635
Other coal						
Coke	—	14,678	53,224	8,384	11,042	20,498
Tar and pitch	—	—	226	236	217	177
Spitzbergen—						
Coal (including bunkers)	826,000	642,422	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sweden—						
Coal	19,911	22,556	6,849	2,766	852	716
Coke	6,235	7,147	11,983	9,271	7,610	8,369
Tar, pitch, etc.	9,577	13,855	8,636	11,042	17,463	30,621
Switzerland—						
Coal	1,729	296	787	—	—	—
Coke	387	131	59	141	204	22,676
Briquettes	182	838	93	9	3	3
Tar and pitch	143	271	264	68	58	161
U.S.S.R.—						
Anthracite	3,213,400	4,168,100	4,021,500	3,272,000	3,029,000	2,931,951
Other coal	15,642,000	16,519,900	18,926,300	18,534,000	18,295,000	18,778,000
Coke	3,269,500	3,736,000	3,935,800	3,693,000	3,945,000	3,635,000
Pitch	127,800	142,200	123,500	71,600	59,400	60,726
Yugoslavia—						
Bituminous	83,044	83,224	110,060	84,136	84,051	<i>n.a.</i>
Brown coal	14,756	39,377	19,638	21,197	4,323	15,810
Lignite	11,685	25,100	31,208	23,138	23,475	29,882
Briquettes	2	—	39	—	—	—
Pitch	11,927	12,484	1,111	413	806	9,014
Tar	431	—	—	—	—	—
Canary Islands—						
Coal	202	<i>n.a.</i>	<i>n.a.</i>	—	—	—

(a) Bunkers for foreign ships only.

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

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Ceuta—						
Coal (bunkers) (b) ..	203	<i>n.a.</i>	<i>n.a.</i>	114	39	40
Malagasy Republic—						
Coal (bunkers) ..	—	—	2	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Morocco—						
Anthracite ..	155,530	172,935	133,517	97,486	26,700	65,542
Other coal ..	7	—	3	18	—	—
Briquettes ..	1,849	291	1,226	815	990	947
Mozambique—						
Coal (incl. bunkers) ..	51,115	64,197	34,113	86,664	84,555	<i>n.a.</i>
South Africa—						
Coal ..	1,618,277	1,375,289	1,362,767	1,321,241	1,095,644	1,384,514
do. (bunkers) ..	1,146	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Coke ..	13,593	3,388	711	902	1,211	3,749
Tar and pitch ..	3,946	3,073	520	1,027	193	<i>n.a.</i>
Mexico—						
Coal and coke ..	—	—	—	29	4	8
United States—						
Anthracite ..	1,608,682	2,993,921	1,406,337	759,471	683,951	531,069
Bituminous ..	34,297,700	42,034,317	42,829,842	44,804,786	44,019,991	44,205,697
do. (bunkers) ..	190,322	199,234	225,701	216,815	191,531	<i>n.a.</i>
Coke (inc. briquettes of coke) ..	325,029	402,894	467,585	744,346	984,077	634,268
Briquettes of coal ..	16,604	72,260	15,944	79,023	105,312	106,869
Tar and pitch ..	52,978	r 85,219	r 209,346	r 79,902	102,487	103,071
Chile—						
Coal (including bunkers)	1,101	1,033	r 99	836	<i>n.a.</i>	<i>n.a.</i>
Peru—						
Coal ..	10,457	6,889	9,639	15,659	<i>n.a.</i>	—
Formosa—						
Coal (including bunkers)	126,341	89,302	94,833	1,907	15,236	<i>n.a.</i>
Indonesia—						
Coal (including bunkers)	202	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Iran (a)—						
Coal ..	608	249	113	303	369	151
Japan—						
Coal ..	62,452	90,464	67,636	65,691	32,542	57,886
do. (bunkers) ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Coke ..	14,463	16,054	9,466	28,246	57,525	45,720
Tar and pitch ..	r 30,373	r 31,648	r 36,957	r 25,244	14,931	13,195
Korea (South)—						
Anthracite ..	296,725	258,801	247,560	201,724	159,898	169,350
Lebanon—						
Coal and briquettes ..	<i>n.a.</i>	2,142	2,195	1,261	932	922
Coke ..	<i>n.a.</i>	376	690	835	798	979
Turkey—						
Coal ..	—	5,856	16,204	9,050	9,790	2,757
Vietnam (South)—						
Coal ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

(a) Years ended March 20 following that stated.

(b) Foreign coal (see imports).

IMPORTS OF COAL, COKE AND BY-PRODUCTS*

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967	
COMMONWEALTH COUNTRIES							
United Kingdom—							
Coal	21,829	32,123	351	2,571	29,651	6,754	
Coke	3,111	788	—	17	2,906	246	
Manufactured fuel	173	222	647	5,481	209	466	
Tar	<i>n.a.</i>	<i>n.a.</i>	3,309	16,840	10,893	18,126	
Channel Islands—							
Anthracite	79,556	84,204	62,971	49,279	30,393	} 56,685	
Bituminous	110,143	100,443	87,288	81,530	78,654		
Coke	7,316	8,006	4,831	5,101	7,757		
Gibraltar—							
Coal (b)	2,781	2,900	1,410	1,327	1,688	(a) 25	
Malta—							
Coal (b)	2,377	2,549	4,110	443	1,995	1,774	
Coke	1,225	267	387	165	673	—	
Gambia—							
Coal, coke and patent fuel	—	—	—	—	52	1	
Tar	1	3	4	243	13	16	
Ghana—							
Coal	28,451	41,033	44,581	26,886	51,117	28,661	
Coke and patent fuel	374	588	314	428	1,417	677	
Tar	338	940	140	164	27	184	
Kenya—							
Coal (b)	23,518	40,053	32,652	52,729	46,658	48,126	
Coke	1,562	1,572	1,567	1,143	1,858	1,217	
Tar	—	(a) 1	5	12	<i>n.a.</i>	7	
Malawi—							
Coal	<i>n.a.</i>	<i>n.a.</i>	61,472	66,649	78,027	52,732	
Coke	<i>n.a.</i>	<i>n.a.</i>	114	88	<i>n.a.</i>	46	
Mauritius—							
Coal	3,014	2,085	1,966	1,703	2,891	301	
Coke	198	182	213	240	157	297	
Tar	86	134	21	22	15	11	
Nigeria—							
Coal, coke and patent fuel	1,394	1,399	4,285	2,618	12,097	75,434	
Tar	1,137	1,261	666	815	587	264	
Rhodesia (c)—							
Coal	62,421	59,129	} 12,285	9,830	<i>n.a.</i>	<i>n.a.</i>	
Coke	241	35				<i>n.a.</i>	<i>n.a.</i>
Tar	523	171		264	253	<i>n.a.</i>	<i>n.a.</i>
St. Helena—							
Coal	94	110	63	73	40	40	
Sierra Leone—							
Coal, coke and briquettes	15,321	4,452	80	4,070	<i>n.a.</i>	<i>n.a.</i>	
Tar	193	113	139	93	119	<i>n.a.</i>	
Tanzania—							
Coal	407	383	144	200	135	109	
Coke	456	500	419	315	160	196	
Tar	5	10	7	9	19	15	
Uganda—							
Coal	80	72	114	82	59	66	
Coke	134	456	430	122	17	359	
Tar	20	4	10	2	—	<i>n.a.</i>	
Zambia—							
Coal	<i>n.a.</i>	<i>n.a.</i>	962,396	1,142,052	892,149	967,452	
Coke briquettes	<i>n.a.</i>	<i>n.a.</i>	64,711	59,178	69,841	73,095	
Tar	<i>n.a.</i>	<i>n.a.</i>	642	563	500	138	

*For ammonium sulphate, etc., see Nitrogen Compounds, pages 235-241.

(a) Excess of re-exports.

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

(c) Figures for years 1962 and 1963 relate to Rhodesia and Nyasaland.

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

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES (cont.)						
Canada—						
Anthracite	790,336	739,071	579,802	571,311	528,097	468,458
do. dust	26,035	17,470	3,982	262	2,432	868
Bituminous	10,214,035	10,936,295	12,798,206	14,242,996	14,144,344	13,918,238
do. (a)	218,678	236,357				
Briquettes	6,793	5,752	6,375	7,084	4,410	7,579
Coke	219,945	209,473	281,931	508,844	522,290	345,579
Tar	2,528	2,630	104,131	101,894	128,234	113,641
Pitch	84,191	101,384				
Bahamas—						
Coal	3	1	7	6	6	3
Barbados—						
Coal, coke and patent fuel	603	319	330	332	540	619
Bermuda—						
Bituminous	10	369	n.a.	38	54	14
British Honduras—						
Coal and coke	28	14	18	27	21	6
Grenada—						
Coal	3	2	2	—	1	—
Coke	—	—	—	10	2	2
Jamaica—						
Coal (b)	206	154	87	61	47	31
Coke	506	657	772	1,304	517	776
Tar	20	33	42	29	32	21
St. Kitts—						
Coal, coke and patent fuel	—	5	10	9	35	10
St. Lucia—						
Coal	9	10	12	15	8	1
Tar	3	—	6	6	3	3
St. Vincent—						
Coal	3	—	n.a.	3	2	—
Trinidad and Tobago—						
Coal (b)	1,007	399	796	516	(c) 276	316
Coke	113	94	221	120	(c) 23	20
Falkland Islands—						
Coal	5	123	115	166	113	156
Coke	—	200	—	2	45	49
Guyana—						
Coal	136	n.a.	(c) 145	88	68	70
Coke	84	n.a.	3	16	21	36
Patent fuel	85	n.a.	103	80	60	60
Tar	172	n.a.	138	99	145	73
Aden—						
Coal (b)	—	1,246	n.a.	n.a.	n.a.	—
Ceylon—						
Coal (b)	139,005	142,847	172,534	136,395	30,509	136,289
Coke	530	598	1,925	268	553	965
Tar	58	54	2	4,269	61	640
Cyprus—						
Coal (b)	82	283	401	201	514	174
Coke	196	232	215	372	344	402
Tar and pitch	3	1	8	5	—	12
Hong Kong—						
Coal	211,343	184,958	168,979	167,361	144,328	113,925
Coke	4,007	4,002	6,191	5,500	4,930	5,387

(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	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES (cont.)						
India—						
Coal	10,832	2,718	1,784	2,451	2,856	1,040
Coke	3,027	100	422	579	1,375	111
Tar and pitch (b)	155	59	18	23	34	292
Malaysia (West)—						
Anthracite	n.a.	n.a.	n.a.	16,845	17,660	10,871
Coke	n.a.	n.a.	n.a.	5,418	5,492	6,387
Pakistan—						
Coal	1,311,602	1,231,145	710,125	n.a.	n.a.	n.a.
Coke	—	—	488	n.a.	n.a.	n.a.
Tar and pitch	7,130	267	3,699	n.a.	n.a.	n.a.
Singapore—						
Anthracite	1,329	3,554	10	2,462	1,018	78
Other coal	7,457	—	4,856	—	2,816	—
Coke	3,099	5,333	3,187	3,741	3,309	4,287
Australia (a)—						
Coal	4,792	7,929	12,816	(e) 2,700	8,476	8,276
Coke	44	29,052	37,284	51,490	(e) 10,846	2,968
Tar and pitch	3,696	8,343	7,553	12,064	9,570	10,882
Fiji—						
Coal	7,026	6,324	4,008	3,029	2,003	5,601
Coke	165	224	336	314	265	171
Tar	43	35	21	29	—	28
New Guinea (a)—						
Coal and coke	18	8	n.a.	n.a.	n.a.	n.a.
New Zealand—						
Coal	7,535	(a) 2,906	(a) 588	(a) 6	(a) 17,505	(a) 38,618
Coke	100	(a) 88	(a) 92	(a) 67	(a) 64	(a) 60
Tar	5,383	n.a.	n.a.	n.a.	n.a.	n.a.
Pitch	367	n.a.	n.a.	n.a.	n.a.	n.a.
Sabah—						
Coal and coke	66	69	63	75	38	30
Papua (a)—						
Coal and coke	17	16	n.a.	n.a.	n.a.	n.a.
Sarawak—						
Coal and coke	(d) 19	20	21	12	21	11
Tar	92	95	557	219	1,101	94
Western Samoa—						
Coal and coke	30	3	31	12	20	7
Irish Republic—						
Anthracite	57,297	56,359	51,683	46,108	65,534	66,012
Bituminous (c)	1,405,217	1,378,503	1,285,898	1,222,375	1,247,298	1,171,566
Coke	15,613	12,058	12,384	11,914	15,076	17,011
Patent fuel	2,692	3,779	3,400	5,991	2,906	2,511
Tar	10,912	3,588	4,337	2,587	2,751	3,215
OTHER COUNTRIES						
Albania—						
Coke	17,676	5,399	10,228	17,206	n.a.	n.a.
Austria—						
Coal	3,593,228	3,888,509	3,748,377	3,539,692	3,319,308	3,074,538
Brown coal	40,868	85,697	118,087	113,915	39,458	41,375
Coke	783,320	948,141	894,393	950,536	974,006	947,789
Briquettes	610,142	684,744	631,190	601,447	522,296	564,040
Tar, pitch, etc.	8,247	19,336	17,830	17,182	15,557	24,081

(a) Years ended June 30 of that stated.

(b) Years ending March 31 following that stated.

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

(d) Coke only

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

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

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Belgium-Luxemburg						
E.U.—						
Coal	4,858,653	7,223,635	6,904,132	6,799,998	6,121,098	5,794,867
do. coke	3,917,714	3,830,069	4,243,848	3,998,881	3,570,153	3,643,976
do. briquettes .. .	163,814	191,788	236,608	328,512	340,097	325,344
Brown coal	26	—	—	—	25	—
do. do. coke	239	93	n.a.	1,071	521	312
do. do. briquettes .. .	233,338	246,536	223,453	195,423	171,462	134,765
Tar	31,829	26,227	34,372	37,641	37,478	41,030
Pitch	26,226	102,267	93,506	17,273	2,647	461
Bulgaria—						
Coal	n.a.	1,161,000	1,763,000	2,218,000	3,100,250	n.a.
Coke	321,330	312,322	346,785	259,679	295,262	n.a.
Czechoslovakia—						
Coal	3,959,000	4,277,000	4,964,000	4,466,000	3,966,000	n.a.
Denmark—						
Coal	3,867,021	3,904,546	3,718,425	3,382,984	3,620,785	3,571,807
Coke	1,339,783	1,394,703	1,127,848	843,074	810,592	577,626
Coal briquettes .. .	7,485	8,031	2,590	2,307	1,876	8,575
Brown coal briquettes .. .	215,611	189,954	156,788	148,084	135,513	103,669
Coke briquettes .. .	14,407	3,433	20,937	31,314	8,318	1,710
Tar	70	74	95	73	134	2,393
Pitch	149	234	195	329	325	357
Faroe Islands—						
Coal	1,218	3,584	2,275	2,280	2,534	2,357
Finland—						
Anthracite	243,527	277,987	255,752	184,201	204,504	127,382
Other coal	2,335,604	1,870,165	2,119,791	2,293,196	1,805,928	1,896,170
Briquettes	7,725	8,169	5,990	2,606	4,839	2,840
Coke	350,939	346,291	873,339	818,746	715,053	724,855
Tar	44	29	13	53	73	45
France—						
Anthracite	2,505,764	3,794,565	4,008,663	3,314,916	3,160,056	3,012,629
Bituminous	7,580,043	11,882,693	9,932,549	8,425,965	7,756,467	8,251,636
Lignite	1,528	1,724	1,826	3,998	4,643	14,795
Coke	4,602,265	5,442,467	4,860,499	4,391,403	3,675,090	3,273,349
Coal briquettes .. .	515,140	797,734	762,762	408,080	327,579	318,649
Brown-coal briquettes .. .	490,385	493,147	535,745	374,355	357,271	336,775
Tar and pitch	357,211	431,329	473,642	307,538	244,119	288,522
Germany (Federal)—						
Coal	7,180,036	7,639,393	6,946,361	7,052,934	6,675,104	6,473,250
Brown coal	1,103,717	1,143,996	1,011,539	915,330	1,037,210	1,106,851
Coke	431,969	426,052	358,683	526,238	499,090	557,451
Coal briquettes .. .	371,132	643,118	366,969	300,623	281,134	270,437
Brown-coal briquettes .. .	232,212	401,915	196,801	47,950	28,546	20,697
Tar and pitch	66,060	97,737	112,208	94,410	51,131	37,127
Germany (East)—						
Coal	8,741,000	8,709,000	10,247,000	9,315,000	9,023,000	8,143,000
Brown coal	5,637,000	5,696,000	5,363,000	5,136,000	4,986,000	3,673,000
Coke	2,919,000	3,179,000	3,257,000	3,154,000	3,181,000	2,833,000
Greece—						
Anthracite	10,886	12,032	9,117	8,740	6,479	6,449
Other coal	168,380	157,009	121,349	187,679	108,701	107,238
Coke	30,816	108,879	167,066	203,163	248,799	121,015
Tar and pitch	853	444	699	463	4,052	7,123
Hungary—						
Coal	1,685,207	2,473,615	3,227,785	2,663,000	2,346,000	1,714,488
Coke	950,013	1,058,855	1,137,482	2,102,000	1,181,000	2,171,160
Pitch	313	363	98	—	—	—
Iceland—						
Coal	15,881	10,555	12,494	7,895	4,928	5,038
Coke	2,090	1,109	860	925	742	354
Tar	6	19	35	20	18	18

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

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Italy—						
Anthracite	10,408,696	10,500,222	9,894,769	9,350,245 797,262	10,522,042	994,693
Bituminous						
Lignite	24,002	39,037	31,403	47,811	24,663	49,547
Coke	321,385	663,851	359,405	265,710	336,377	346,566
Briquettes	209,640	386,161	469,183	290,594	290,923	300,538
Tar	—	82	69	1,402	2,582	6,696
Pitch	1,538	2,123	6,314	2,921	4,854	4,513
Netherlands—						
Coal	8,782,016	9,791,606	9,152,089	6,994,381	6,573,537	6,928,287
Brown coal	211,995	187,806	200,508	146,412	132,447	89,109
Coke	354,820	515,303	305,220	276,313	205,221	184,631
Briquettes	132,803	196,544	91,661	53,925	44,139	24,347
Brown-coal briquettes	237,193	260,484	157,358	143,413	111,484	83,763
Tar	30,314	56,980	81,235	74,165	70,230	67,792
Pitch	41,048	48,515	53,168	32,231	57,586	54,341
Norway—						
Coal (a)	247,957	220,957	272,238	358,969	366,190	414,917
Coke	664,110	813,909	754,848	670,000	730,198	620,966
Briquettes	134	191	—	11	24	1
Tar and pitch .. .	45,002	52,300	54,235	61,876	65,834	77,739
Poland—						
Anthracite	<i>n.a.</i>	18,700	19,400	34,000	23,000	30,000
Other coal	1,025,500	1,245,000	1,259,100	1,191,000	1,123,000	1,194,000
Brown-coal briquettes	501,900	511,900	620,900	627,000	427,000	219,000
Portugal—						
Anthracite	9,107	11,926	10,118	10,099	4,847	7,164
Other coal	355,753	438,593	389,180	410,334	457,744	374,539
Coke	173,477	205,693	241,806	213,143	285,203	293,336
Briquettes	1,244	712	761	681	123	71
Tar and pitch .. .	2,978	2,036	2,468	6,396	3,727	3,578
Roumania—						
Coal	738,100	686,900	706,500	695,100	685,200	<i>n.a.</i>
Coke	707,300	903,500	930,700	915,100	1,074,200	<i>n.a.</i>
Spain—						
Anthracite	211	<i>n.a.</i>	40,586	83,082	64,035	33,596
Bituminous	1,510,191	1,656,395	1,779,888	1,605,027	1,369,614	1,283,675
Coke	301,152	125,716	99,826	65,664	65,468	124,390
Tar and pitch .. .	93,896	71,645	53,163	52,136	36,807	24,502
Sweden—						
Anthracite	51,716	69,614	79,443	95,511	91,535	97,342
Other coal	1,833,285	1,679,055	1,882,835	1,581,449	1,739,239	1,554,097
Coke	1,499,347	1,586,513	1,620,546	1,381,425	1,266,157	997,294
Briquettes	14,872	16,012	5,575	2,643	7,144	5,828
Tar, pitch, etc. ..	12,372	10,240	6,394	303	237	175
Switzerland—						
Coal	1,663,745	1,969,973	1,356,028	1,097,145	874,297	633,566
Lignite	260	338	319	276	396	667
Coke	516,729	680,885	483,024	468,173	361,090	278,267
Briquettes	223,010	266,082	217,696	176,602	139,608	123,102
Tar and pitch .. .	20,252	20,837	23,079	21,355	12,075	16,941
U.S.S.R.—						
Coal	4,800,000	5,000,000	5,000,000	6,700,000	7,200,000	7,700,000
Coke	597,400	643,700	650,600	652,000	644,000	674,181
Yugoslavia—						
Anthracite	120,460	118,559	136,773	149,548	132,228	141,684
Other coal	1,227,207	1,319,178	1,858,798	2,001,488	1,661,901	1,280,094
Coke	240,130	225,451	188,584	109,256	169,017	112,579
Coke dust	3,017	797	—	—	61	—
Tar and pitch .. .	1,082	673	76	62	25	68

(a) Excluding coal imported from Spitzbergen.

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

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Algeria—						
Coal	} <i>n.a.</i>	15,100	{ <i>n.a.</i>	12,655	10,523	<i>n.a.</i>
Coke				9,403	11,033	<i>n.a.</i>
Briquettes				<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Angola—						
Coal	15,362	4,120	21,202	19,912	31,643	19,546
Coke	1,425	5,328	9,583	750	620	543
Tar and pitch	465	262	160	243	225	181
Cameroun—						
Coal, coke, etc... .. .	306	469	377	440	<i>n.a.</i>	<i>n.a.</i>
Canary Islands—						
Coal	6,821	<i>n.a.</i>	<i>n.a.</i>	965	37	25
Cape Verde Islands—						
Coal (a)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Egypt—						
Coal	56,836	28,724	296,594	402,462	287,294	<i>n.a.</i>
Coke	235,039	263,767	212,589	32,000	5,000	<i>n.a.</i>
Tar and pitch	1,073	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Equatorial African Community—						
Coal, coke, briquettes	122	<i>n.a.</i>	143	219	136	108
Ethiopia (b)—						
Coal	<i>n.a.</i>	9,089	1,800	<i>n.a.</i>	<i>n.a.</i>	752
French Somaliland—						
Coal	—	61	—	—	—	—
Ivory Coast—						
Coal and briquettes	30	55	52	108	78	5
Coke	<i>n.a.</i>	25	236	151	129	185
Libya—						
Coal, coke, briquettes	6,082	8,426	2,271	6,644	97	2,215
Malagasy Republic—						
Coal and briquettes	5,332	14,295	13,113	14,634	14,962	16,943
Coke	46	42	88	71	71	69
Tar and pitch	38	72	55	163	93	95
Melilla—						
Coal	3,470	<i>n.a.</i>	<i>n.a.</i>	92	—	—
Morocco—						
Coal	69,353	92,487	105,007	33,383	18,940	42,007
Coke	6,629	8,862	14,187	9,707	13,130	13,888
Tar	—	—	26	—	—	—
Pitch	1,002	505	1,044	1,544	1,547	1,861
Mozambique—						
Coal	321,041	287,191	316,592	337,338	225,314	<i>n.a.</i>
Coke	1,047	1,202	1,402	1,317	1,385	<i>n.a.</i>
Tar, pitch and asphalt.. .. .	6,061	4,303	8,014	6,435	3,999	<i>n.a.</i>
Senegal—						
Coal and briquettes	27	182	685	622	205	143
Coke	279	131	131	261	67	151
South Africa—						
Coal	57,981	48,728	96,489	23,763	641	—
Coke	11	5	13	32,696	25,483	3,749
Sudan—						
Coal	8,261	17,630	—	6,262	—	—
Coke	1,477	591	295	895	295	—
Tar	118	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Togo—						
Coal and briquettes	32	73	104	25	53	13

(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	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Tunisia—						
Coal	27,051	28,187	33,709	30,053	29,146	37,042
Coke	8,666	8,752	6,510	20,670	54,985	106,476
Tar and pitch	75	21	15	78	42	15
Costa Rica—						
Coal	38	36	45	35	81	46
Coke	79	149	137	78	161	70
Cuba—						
Coke	27,872	27,871	18,861	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Bituminous	—	—	28,218	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Anthracite	25,353	47,430	60,672	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Greenland—						
Coal	14,950	16,893	9,763	8,672	5,872	14,247
Guatemala—						
Coal	149	63	32	60	48	91
Coke	45	215	139	202	253	94
Honduras—						
Coal	182	94	186	76	148	121
Coke	5	3	10	10	29	2
Mexico—						
Coal	46,048	44,055	48,890	53,586	61,614	59,228
Coke	9,022	20,910	27,168	55,362	122,836	144,994
Tar	548	2,615	3,536	1,907	2,426	663
Nicaragua—						
Coal	12	14	14	15	24	—
Coke	50	69	41	67	82	58
Panama Republic—						
Coal	23	33	20	45	<i>n.a.</i>	<i>n.a.</i>
Salvador—						
Coal	99	57	97	101	90	98
Coke	205	204	259	255	235	181
Tar	44	71	61	55	58	63
St. Pierre and Miquelon—						
Coal	7,358	10,032	8,409	6,898	7,486	8,159
United States—						
Anthracite	6,771	4,129	} 272,011	175,911	168,329	218,536
Bituminous	206,759	236,896				
Lignite	—	<i>n.a.</i>				
Slack and culm	762	<i>n.a.</i>				
Coke	126,681	136,246	92,220	80,018	85,501	82,144
Briquettes	7,496	4,125	10,351	11,244	<i>n.a.</i>	<i>n.a.</i>
Tar and pitch	33,551	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Argentina—						
Coal	609,998	756,796	680,345	646,400	686,901	793,257
Coke	22,259	1,886	68,243	80,583	50,843	38,633
Tar and pitch	412	68	293	73	55	33
Bolivia—						
Coal and coke	1,105	1,265	1,229	761	784	371
Brazil—						
Coal	877,873	852,622	1,330,639	1,031,260	1,716,875	1,513,181
Coke	27,061	38,606	150,166	122,837	56,926	42,813
Chile—						
Coal	871,900	101,765	r 430,307	31,856	<i>n.a.</i>	<i>n.a.</i>
Coke	628	342	r 103	541	<i>n.a.</i>	<i>n.a.</i>
Tar and pitch	20,104	26,776	r 18,001	19,656	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Coal	—	14	263	13	—	—
Coke	23	11	—	—	—	—
Peru—						
Coal	—	1,065	51	1,108	10	—
Coke	4,373	8,400	2,678	7,987	4,440	12,431
Tar	128	44	37	11	9	27

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

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES (cont.)						
Surinam—						
Coal	117	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Uruguay—						
Coal	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	32,434	13,980	14,825
Coke	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,903	1,922	2,116
Venezuela—						
Coal	3,091	14,704	694	9,930	3,810	4,380
Coke	122,964	124,895	179,064	190,500	153,858	205,582
Burma—						
Coal	325,328	205,921	205,911	118,262	<i>n.a.</i>	<i>n.a.</i>
Coke	11,413	5,531	1,080	5	<i>n.a.</i>	<i>n.a.</i>
Formosa—						
Coke	—	7,095	5,622	17,307	10,390	<i>n.a.</i>
Indonesia—						
Coal	17,360	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Coke						
Tar						
Iraq—						
Coal	681	500	290	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Coke	762	876	841	579	<i>n.a.</i>	<i>n.a.</i>
Tar and pitch	162	107	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Israel—						
Anthracite	20,122	12,730	18,269	2,600	1,356	262
Other coal						
Coke						
Coke	25,598	7,517	8,548	6,337	6,377	6,205
Japan—						
Anthracite	1,288,793	10,966,639	13,023,813	16,810,362	19,201,248	1,413,248
Other coal	10,452,607					
Coke	116,427					
Tar and pitch	7,528					
Coke	—	129	113	48,633	7	23,651,317
Tar and pitch	7,528	—	—	5,208	31	219,721
Coke	—	—	—	—	—	—
Tar and pitch	7,528	129	113	5,208	31	28
Jordan—						
Coal and briquettes	<i>n.a.</i>	496	607	545	466	<i>n.a.</i>
Korea (South)—						
Coal	177,175	128,152	158,549	98,015	62,315	55,914
Coke	<i>n.a.</i>	3,585	4,474	16,900	26,821	31,101
Lebanon—						
Coal and briquettes	2,542	2,072	4,457	1,875	1,722	2,165
Coke	2,846	8,485	9,955	10,089	3,608	2,244
Philippine Republic—						
Coal	78	231	39	64	<i>n.a.</i>	<i>n.a.</i>
Coke	12,191	14,373	11,339	20,372	<i>n.a.</i>	<i>n.a.</i>
Tar	588	837	59	19	<i>n.a.</i>	<i>n.a.</i>
Syria—						
Coal and briquettes	1,599	1,901	2,290	2,221	605	1,213
Coke	1,918	1,057	1,995	3,116	<i>n.a.</i>	1,071
Thailand—						
Coal	—	—	—	1,355	1,337	59
Coke	2,259	3,177	1,996	3,566	4,153	4,453
Tar	40	38	4	78	77	—
Turkey—						
Coal	<i>n.a.</i>	<i>n.a.</i>	295	130	328	326
Coke	566	4,078	4,019	4,134	7,807	11,662
Pitch	5	<i>n.a.</i>	49	98	74	—
Vietnam (South)—						
Coal, coke and briquettes	15,800	9,000	23,000	14,760	<i>n.a.</i>	<i>n.a.</i>
French Polynesia—						
Coal	12	16	16	21	—	<i>n.a.</i>
New Caledonia—						
Coal	46,759	79,676	182,726	246,382	215,880	243,653
Coke	101,809	91,091	100,405	52,822	137,638	82,897

COBALT
PRODUCTION OF COBALT ORE
(Metal content)

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Zambia (a)	846	959	1,394	1,510	1,490	1,430
Canada (c)	1,554	1,350	1,422	1,629	1,567	1,476
Australia (d)	15	17	17	18	17	17
OTHER COUNTRIES						
Congo Republic (b)	9,530	7,260	7,555	8,256	11,119	9,565
Morocco	1,413	1,349	1,545	1,644	1,788	1,725
Cuba (e)	162	460	690	790	901	893
TOTAL*	16,000	13,000	14,000	16,000	20,000	19,000

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

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

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

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

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

(d) Estimated cobalt content of cobalt oxide.

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

METAL PRODUCTION OF COBALT

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Zambia	715	671	1,341	1,510	1,490	1,430
OTHER COUNTRIES						
France	621	740	737	875	827	<i>n.a.</i>
Germany (Federal) (a)	1,620	1,484	1,422	1,335	1,091	869
Norway (b)	592	615	698	810	786	501
Congo Republic	8,929	6,715	7,057	8,231	11,119	9,565

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

Year	Long tons	Year	Long tons
1962 ..	645	1965 ..	880
1963 ..	696	1966 ..	899
1964 ..	772	1967 ..	917

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

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

EXPORTS OF COBALT, ETC.

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Cobalt (a)	42	110	90	157	186	370
Cobalt oxide	332	359	462	368	460	192
Other compounds	601	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Zambia (e)—						
Cobalt	880	529	1,443	1,411	1,602	2,058
Cobalt alloy	—	—	31	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Canada—						
Cobalt	242	330	265	130	280	669
Cobalt oxides and salts ..	728	490	739	631	584	863
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Cobalt (b) (c)	2,352	671	951	2,373	3,225	2,213
France—						
Ingots and scrap (a)	429	451	564	639	595	598
Cobalt salts	11	11	10	31	17	—
Germany (Federal)—						
Cobalt (c)	1,002	872	776	626	441	189
Cobalt oxide	19	30	24	456	56	39
Norway—						
Cobalt	635	629	559	872	797	427
Sweden—						
Cobalt	13	4	9	2	3	5
U.S.S.R.—						
Cobalt	200	197	197	200	100	100
Congo Republic (d)—						
Cobalt	8,900	6,700	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Cobalt-copper ingots	1,500	1,300	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Morocco—						
Ore	2,390	6,988	28,647	6,151	19,226	15,319
United States—						
Ore and metal (c)	865	958	573	555	456	669
Japan—						
Cobalt oxide	1	3	4	21	3	2

(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 1962 and 1963 relate to Rhodesia and Nyasaland.

IMPORTS OF COBALT, ETC.

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Cobalt	1,238	} 378	1,528	1,803	1,549	1,608
Cobalt alloys	3					
Cobalt oxide	1,048	n.a.	990	859	1,101	657
Canada—						
Cobalt oxide	18	13	n.a.	n.a.	n.a.	n.a.
Hong Kong—						
Cobalt oxide	34	45	35	37	46	51
India—						
Cobalt oxide	40	32	34	33	18	25
Australia (a)—						
Cobalt ingots, etc.	37	68	62	50	(d) 52	77
Cobalt oxide	12	10	23	30	22	38
Cobalt salts	3	2	11	6	3	—
New Zealand—						
Cobalt salts	172	(a) 1	(a) —	(a) 1	n.a.	(a) 1
OTHER COUNTRIES						
Denmark—						
Cobalt	12	10	26	21	20	22
France—						
Ore	9,542	10,356	10,228	11,488	11,933	11,736
Ingots and scrap (c)	168	266	227	308	430	392
Cobalt oxide	79	80	88	129	134	131
Germany (Federal)—						
Cobalt (b)	570	459	667	775	722	561
Cobalt oxide	211	212	257	259	315	306
Italy—						
Cobalt (b)	231	371	313	271	384	327
Cobalt oxide	124	276	243	216	206	211
Netherlands—						
Cobalt	140	120	161	244	160	234
Portugal—						
Cobalt oxide	5	4	3	2	3	4
Sweden—						
Cobalt	150	130	233	188	256	187
Yugoslavia—						
Cobalt	36	43	50	25	29	28
Mexico—						
Cobalt oxide	26	32	45	50	67	68
United States—						
Ore	—	13	n.a.	n.a.	n.a.	n.a.
Go content	—	12	n.a.	n.a.	n.a.	n.a.
Cobalt metal	5,257	4,608	5,077	6,628	7,978	3,547
Cobalt oxide	436	209	676	422	571	466
Cobalt salts	54	42	42	49	67	75
Argentina—						
Cobalt metal	14	22	46	46	44	59
Cobalt salts	7	12	23	15	10	10
Brazil—						
Cobalt oxide	43	36	31	30	42	36
Japan—						
Ingots, slabs and grains	1,093	853	1,603	1,270	2,005	2,604
Cobalt oxide	240	247	314	278	329	453

(a) Years ended June 30 of that stated.

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

(b) Including alloys and scrap.

(c) Including alloys.

COPPER
PRODUCTION OF COPPER ORE
(Metal content)

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom	6	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Kenya (f)	1,500	1,500	1,400	1,400	500	10
Rhodesia	13,524	16,508	16,376	17,678	(c) 16,900	17,678
Tanzania	—	—	—	—	—	<i>n.a.</i>
Uganda (h)	15,331	15,960	17,971	16,870	15,844	14,198
Zambia	553,442	578,784	622,362	684,753	613,594	652,500
Canada (g)	408,380	404,070	434,732	453,461	448,702	528,839
Cyprus (e)	24,763	25,893	16,530	18,960	24,347	15,200
India	10,054	10,170	10,048	10,000	10,000	9,000
Australia	106,972	112,967	104,050	90,388	109,537	89,298
New Zealand	10	20	70	10	—	150
TOTAL	1,134,000	1,166,000	1,223,000	1,294,000	1,239,000	1,327,000
Irish Republic	2,350	—	—	—	1,115	3,470
OTHER COUNTRIES						
Albania (c)	2,500	2,500	2,500	2,500	2,500	<i>n.a.</i>
Austria	2,003	1,902	1,588	1,551	1,872	1,930
Bulgaria	18,000	18,000	18,000	24,000	29,000	<i>n.a.</i>
Finland	34,600	33,400	31,800	29,300	25,970	28,377
France (d)	221	270	263	279	427	399
Germany—						
Federal Republic	1,815	2,246	1,557	960	1,153	1,171
East (b)	20,000	20,000	20,000	20,000	20,000	20,000
Italy	2,655	2,500	1,800	1,700	2,200	2,500
Norway	15,290	14,040	14,737	14,534	14,581	14,225
Poland	13,500	13,000	14,200	15,000	15,000	15,000
Portugal	3,341	3,238	4,296	3,801	3,676	3,605
Spain (i)	7,769	6,727	9,716	8,637	8,030	<i>n.a.</i>
Sweden	18,789	16,428	15,934	15,538	15,036	14,984
U.S.S.R. (b)	550,000	600,000	675,000	700,000	750,000	850,000
Yugoslavia	50,900	61,112	62,186	61,562	61,239	62,154
Algeria	767	(b) 1,000	1,023	956	1,045	1,033
Angola	1,754	63	—	—	—	—
Congo Republic (h)	292,296	266,692	272,623	284,047	310,679	313,938
Congo, Republic of	827	286	—	(c) 60	<i>n.a.</i>	—
Morocco	2,458	1,777	1,720	1,784	2,292	2,180
South Africa	45,638	54,279	58,552	59,500	122,692	125,521
South West Africa	23,000	32,000	34,000	39,000	38,000	33,000
Cuba (b)	5,500	6,000	6,000	6,000	6,000	6,300
Haiti	4,212	5,791	4,950	3,897	2,687	2,313
Mexico (d)	46,381	54,979	51,676	68,070	73,221	61,633
Nicaragua	7,157	7,168	9,094	10,025	9,610	9,188
United States (d)	1,096,804	1,083,184	1,113,196	1,206,905	1,276,029	851,843
Argentina	398	349	340	510	332	404
Bolivia (a)	2,325	2,946	4,607	4,656	5,612	6,229

(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): 1962—20,400; 1963—22,000; 1964—11,300; 1965—18,000; 1966—16,000; 1967—15,500.

(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	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES (cont.)						
Brazil (c)	1,600	1,500	2,000	2,000	2,000	2,900
Chile (d)	582,300	592,028	623,541	570,000	650,000	650,000
Ecuador	155	279	181	127	220	408
Peru (d)	164,156	174,650	173,658	177,488	173,606	178,275
Burma (c)	150	170	120	140	100	130
China (a) (b)	75,000	75,000	75,000	75,000	85,000	80,000
Formosa	2,074	1,593	1,711	1,522	1,962	2,207
Israel	5,816	7,598	(c) 8,000	(c) 8,000	(c) 8,500	n.a.
Japan	101,983	105,524	104,497	105,376	109,522	115,797
Korea (South)	550	600	600	1,100	1,000	770
Korea (North) (c)	7,900	7,900	10,000	12,000	12,000	12,000
Philippine Republic	53,864	62,680	59,503	61,749	72,592	84,490
Turkey (a)	25,368	24,398	25,571	25,885	26,197	24,989
TOTAL	3,300,000	3,400,000	3,500,000	3,600,000	3,900,000	3,600,000
WORLD'S TOTAL	4,400,000	4,500,000	4,700,000	4,900,000	5,100,000	5,000,000

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

(a) Smelter.

(b) Estimated.

(c) United States Bureau of Mines' estimate.

(d) Amount estimated as recoverable.

METAL PRODUCTION OF COPPER

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Rhodesia	12,142	14,453	14,998	17,000	(g) 17,000	(g) 17,000
Uganda	15,331	15,960	17,971	16,870	15,844	14,198
Zambia	537,769	567,888	633,368	674,282	577,077	606,486
Canada (a)	331,181	322,754	355,314	376,777	379,000	418,000
India	9,626	9,431	9,325	9,212	9,362	8,763
Australia	87,337	88,492	80,589	73,414	90,487	73,329
TOTAL	993,386	1,018,978	1,111,565	1,168,000	1,089,000	1,138,000
OTHER COUNTRIES						
Albania	1,830	2,010	2,169	(g) 2,000	(g) 2,000	n.a.
Austria (b)	12,666	12,844	14,411	15,950	16,756	17,168
Bulgaria	19,132	20,198	20,769	24,849	(g) 26,000	27,000
Finland	37,700	35,600	31,500	r 31,900	31,900	33,400
Germany—						
Federal Republic	67,700	65,800	67,200	73,000	69,100	71,700
East (e)	20,000	20,000	20,000	20,000	20,000	20,000
Italy	450	363	266	n.a.	n.a.	200
Norway	18,851	17,910	17,233	19,768	19,607	19,588
Poland	23,700	29,100	36,000	36,800	39,200	41,500
Spain	19,928	23,142	21,067	30,533	28,650	26,874
Sweden	22,410	28,616	28,246	29,359	28,418	25,600
U.S.S.R. (e)	550,000	600,000	675,000	700,000	750,000	800,000
Yugoslavia	45,019	49,977	50,899	56,020	73,717	77,400
Angola	700	100	—	—	—	—
Congo Republic	292,296	266,692	272,623	284,047	310,679	313,938
South Africa	45,451	53,647	53,652	53,591	113,214	125,520
South-West Africa	1,195	20,485	28,061	29,237	32,511	31,160
Mexico	44,791	53,479	50,054	66,451	54,366	54,000
United States (d)	1,180,905	1,157,768	1,195,029	1,280,402	1,309,318	769,946
Bolivia (c)	—	—	—	—	—	n.a.
Chile	548,686	548,379	577,292	531,279	623,384	621,101
Peru	145,498	152,757	150,323	156,641	150,000	154,236
China (e)	75,000	75,000	75,000	75,000	85,000	77,000
Formosa	2,451	1,458	1,857	2,154	2,373	2,954
Japan (f)	208,778	248,076	277,734	295,461	313,902	311,000
Korea (South)	2,175	2,341	2,766	2,243	2,854	3,195
Korea (North) (g)	10,000	10,000	10,000	12,000	12,000	12,000
Turkey	25,368	24,398	25,571	25,885	26,197	24,989
TOTAL	3,400,000	3,500,000	3,700,000	3,900,000	4,300,000	3,700,000
WORLD'S TOTAL	4,400,000	4,500,000	4,800,000	5,100,000	5,400,000	4,800,000

(a) Copper content of blister and anode copper.

(b) Including secondary metal.

(c) Exports.

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

1962—823,061; 1963—870,023; 1964—975,912; 1965—1,118,973; 1966—1,191,294; 1967—1,035,631.

(e) Estimated.

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

1962—57,381; 1963—42,463; 1964—58,569; 1965—64,442; 1966—84,547; 1967—69,700.

(g) United States Bureau of Mines' estimate.

EXPORTS OF COPPER, ETC.*

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Unwrought—Refined ..	108,906	45,836	37,814	43,026	49,533	57,943
Alloys ..	46,518	39,652	35,385	33,954	42,960	57,168
Scrap (a) ..	8,010	6,276	3,227	12,536	10,379	2,817
Semi-manufactures ..	35,426	29,971	35,260	51,939	53,922	46,716
do. alloys ..	27,213	25,994	24,972	24,758	27,105	24,175
Sulphate ..	18,382	17,805	18,122	15,627	13,284	12,457
Kenya—						
Unwrought (a) ..	4,006	3,041	3,358	3,665	1,564	—
Rhodesia (e)—						
Ore and concentrates ..	5,593	13,854	7,022	6,868	<i>n.a.</i>	<i>n.a.</i>
Unwrought Refined ..	<i>n.a.</i>	<i>n.a.</i>	15,160	16,467	<i>n.a.</i>	<i>n.a.</i>
Bar and rod ..	<i>n.a.</i>	<i>n.a.</i>	3,699	1,487	<i>n.a.</i>	<i>n.a.</i>
Uganda—						
Unwrought (a) ..	15,539	15,320	18,214	17,283	15,550	14,738
Zambia (e)—						
Matte ..	2,578	806	1,437	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Unwrought—						
Blister ..	118,941	132,612	151,175	150,389	84,305	77,562
Electrolytic ..	404,547	432,929	519,778	522,310	505,404	512,433
Other ..	12,808	12,561	<i>n.a.</i>	3	3	497
Semi-manufactures	985	946	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	84
Canada—						
Ore, matte, etc. (<i>Cu content</i>) ..	85,307	82,973	93,348	77,679	84,721	115,157
Unwrought ..	199,146	191,952	200,244	178,420	170,260	246,356
Scrap, slag, etc. ..	(d) 7,264	(d) 9,450	(d) 11,739	(d) 17,534	26,597	28,308
Scrap alloys ..	6,803	7,798	7,873	8,810	12,005	16,382
Semi-manufactures ..	25,099	30,590	39,954	41,317	44,133	33,343
do. alloys (c) ..	3,458	4,044	5,700	5,064	8,090	10,844
Cyprus—						
Ore and concentrates ..	92,889	108,456	61,139	69,649	57,755	44,625
Cupreous pyrites ..	105,622	103,848	86,128	173,513	161,653	183,673
Copper cement ..	1,667	3,096	3,873	4,915	14,545	8,773
Hong Kong—						
Scrap (a) ..	5,850	6,325	5,719	6,043	6,041	7,904
Semi-manufactures (a) ..	17	—	34	3	4	1
India—						
Semi-manufactures (a)(b) ..	274	641	845	1,053	474	305
Malaysia (West)—						
Ore ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,750	750	1,000
Singapore—						
Semi-manufactures (a) ..	835	928	408	434	484	713
Sulphate ..	54	51	40	59	89	45
Australia—						
Ores, concentrates and dross (<i>Cu content</i>) ..	21,828	11,881	18,982	13,928	15,379	14,173
Unwrought—						
Blister ..	—	464	40	2,115	6,538	6,893
Refined ..	16,497	24,485	13,817	11,703	7,484	9,325
Alloys ..	208	83	149	133	291	5
Scrap (a) ..	6,833	7,504	8,172	4,573	4,430	223
Semi-manufactures (a) ..	5,787	7,986	7,955	14,152	18,640	9,454

*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 1962 and 1963 relate to Rhodesia and Nyasaland.

EXPORTS OF COPPER, ETC. (cont.)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES (cont.)						
Fiji—						
Ore	—	20	—	22	1	1
New Zealand—						
Unwrought (a)	8	(c) —	(c) —	(c) 726	(c) 533	(c) 2,285
Scrap (a)	609	(c) 616	(c) 1,451	(c) 1,045	(c) 1,471	(c) 1,536
Semi-manufactures (a)	654	(c) 1,529	(c) 1,826	(c) 914	(c) 907	(c) 575
Irish Republic—						
Ore and concentrates ..	14,950	—	124	—	—	—
Scrap (a)	2,045	2,918	2,804	3,465	4,284	3,930
OTHER COUNTRIES						
Albania—						
Unwrought	1,544	1,904	2,300	3,625	n.a.	n.a.
Austria—						
Unwrought	1,828	1,369	2,708	4,402	4,401	3,921
do. alloys	598	1,155	938	381	228	549
Scrap (a)	709	595	306	177	393	297
Semi-manufactures (a)	4,354	6,789	8,017	5,153	5,223	4,703
Sulphate	1,338	373	517	758	258	537
Belgium-Luxemburg						
E.U.—						
Unwrought (a) (b) ..	206,804	244,379	245,872	259,003	258,830	281,884
Scrap	8,745	9,739	12,499	16,004	17,651	14,112
Semi-manufactures (a)	56,322	59,419	81,077	88,745	80,003	71,853
Sulphate	12,585	11,624	5,517	8,310	7,509	5,208
Denmark—						
Unwrought	27	—	477	99	3	36
do. alloys	227	416	215	368	748	448
Scrap (a)	5,342	5,116	3,304	4,458	3,492	4,312
Semi-manufactures (a)	712	784	1,561	1,740	1,844	1,994
Finland—						
Unwrought (a)	7,196	8,776	6,740	4,973	13,294	11,946
Semi-manufactures (a)	3,158	5,640	1,927	8,780	10,208	10,228
France—						
Ore	—	—	—	—	—	169
Matte	421	880	795	1,637	681	219
Unwrought—						
Unrefined	9,472	9,791	11,663	13,165	15,650	12,256
Refined	2,436	2,619	3,330	10,439	8,988	9,197
Alloys	5,773	4,674	4,655	5,143	6,205	4,512
Scrap	5,040	5,583	8,011	7,677	8,027	8,781
do. alloys	17,294	27,475	34,963	33,012	30,880	34,012
Semi-manufactures (a)	17,424	18,399	20,467	33,748	30,826	28,989
Sulphate	7,320	4,155	3,234	3,506	5,157	6,646
Germany (Federal)—						
Ore	472	—	—	3,941	2,209	574
Unwrought—						
Unrefined	89	251	367	858	2,145	2,988
Refined	114,215	71,903	75,501	101,251	147,633	156,082
Alloys	1,843	1,012	1,147	1,678	2,499	2,932
Scrap (a)	14,504	20,338	18,312	31,422	43,364	34,782
Semi-manufactures (a)	63,532	71,641	76,820	69,749	91,830	98,201
Sulphate	4,319	5,058	3,871	3,611	3,402	3,814
Greece—						
Semi-manufactures ..	1	63	420	1,316	1,142	1,314
Italy—						
Ore	3,327	2,158	2,442	999	2,366	6,008
Unwrought (a)	206	21	10,693	16,864	5,774	6,100
Scrap (a)	188	245	2,864	465	325	272

(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	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Italy <i>(cont.)</i> —						
Semi-manufactures (a)	9,982	9,695	27,038	35,614	23,564	18,096
Sulphate	7,250	4,681	1,491	17	2	13
Netherlands—						
Ore	263	—	—	—	—	—
Unwrought	122	601	1,402	826	1,114	876
do. alloys	5,434	4,852	6,050	4,819	7,830	4,610
Scrap (a)	17,338	19,684	24,087	31,912	34,243	33,674
Semi-manufactures (a)	7,992	9,314	13,484	15,917	15,803	13,304
Sulphate	36	26	61	147	36	41
Norway—						
Ore	11,205	9,889	14,091	10,559	15,106	12,955
Matte	15,510	1,107	—	—	—	—
Unwrought—						
Unrefined	4,161	4,488	4,821	4,831	5,022	6,456
Refined	13,512	10,667	9,361	11,914	13,642	13,964
Alloys	1,197	1,740	1,714	2,939	3,057	3,267
Scrap (a)	1,572	2,022	2,269	1,998	1,892	1,973
Semi-manufactures (a)	2,198	2,625	1,968	2,940	4,947	2,936
Portugal—						
Ore	2,102	2,153	180	18	—	32
Unwrought	471	256	1,091	742	1,351	861
Semi-manufactures (a)	62	68	71	341	343	148
Sulphate	201	183	211	755	311	341
Spain—						
Unwrought (a)	70	388	6,384	13,975	19,895	35,343
Scrap	—	—	86	191	210	178
Semi-manufactures (a)	26	185	13	12	26	348
Sweden—						
Unwrought	15,884	15,128	10,387	17,930	28,754	31,773
do. alloys	1,890	2,568	1,454	1,849	5,106	5,547
Scrap (a)	545	656	977	1,406	959	999
Semi-manufactures (a)	28,691	31,523	45,507	36,030	35,637	27,088
Sulphate	8	3	69	409	463	873
Switzerland—						
Unwrought (a)	2,052	2,050	2,808	3,784	4,089	4,543
Scrap (a)	1,802	6,901	9,897	12,047	11,026	10,286
Semi-manufactures (a)	7,705	8,482	10,198	8,110	10,836	9,809
Sulphate	65	106	147	753	1,059	1,260
U.S.S.R.—						
Unwrought (d)	70,200	70,900	88,100	91,600	118,200	92,510
Semi-manufactures	5,413	5,413	4,921	5,400	5,200	5,708
Sulphate	9,300	10,300	11,800	10,400	19,200	18,500
Yugoslavia—						
Matte	<i>n.a.</i>	1,229	1,033	<i>n.a.</i>	—	<i>n.a.</i>
Unwrought (a)	843	—	—	—	176	1,397
Semi-manufactures (a)	13,895	17,523	21,845	22,134	31,356	23,260
Sulphate	2,953	2,180	9,241	1,571	5,197	<i>n.a.</i>
Algeria—						
Ore	3,516	3,291	4,018	3,868	1,527	<i>n.a.</i>
Angola—						
Ore	90	—	—	—	—	—
Unwrought	764	190	9	50	300	53
Congo Republic—						
Unwrought (b)	280,000	260,000	300,000	280,000	290,000	280,000
Morocco—						
Ore	5,372	6,516	4,507	5,689	7,531	7,438
Scrap (a)	864	743	928	760	1,075	1,031
South Africa—						
Concentrates (Cu content) (c)	42	583	3,287	4,259	<i>n.a.</i>	9,272
Unwrought	43,447	68,495	81,128	82,208	119,822	145,703
do. alloys	<i>n.a.</i>	<i>n.a.</i>	88	3		
Semi-manufactures	<i>n.a.</i>	<i>n.a.</i>	1,012	1,528		

(a) Including alloys.
(b) Estimated.

(c) Including matte.
(d) Including wire.

EXPORTS OF COPPER, ETC. (cont.)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES (cont.)						
South West Africa—						
Ore (<i>Cu content</i>) ..	1,440	—	312	668	8,889	n.a.
Lead concentrates (<i>Cu content</i>)	21,938	11,492	5,834	7,895	4,372	n.a.
Tunisia—						
Unwrought and scrap ..	850	520	459	1,259	967	548
Cuba—						
Ore	15,396	2,746	22,016	20,982	n.a.	n.a.
Mexico—						
Ore, concentrates, etc..	6,912	2,085	7,178	6,635	5,651	2,055
Unwrought—						
Unrefined	24,049	22,061	15,686	7,821	7,163	6,272
Refined	4,930	2,735	620	824	246	—
Semi-manufactures (a)	1,213	1,985	1,606	4,136	5,213	825
United States—						
Ores, matte, blister, etc. (<i>Cu content</i>)	1,710	1,080	4,817	9,532	1,261	n.a.
Unwrought	300,468	278,107	282,349	290,147	243,814	142,280
do. alloys	306	529	1,774	1,356	1,287	1,082
Scrap	11,257	12,223	39,062	28,357	16,043	15,729
do. alloys	32,330	30,997	61,313	58,326	38,991	57,926
Semi-manufactures ..	9,692	9,337	5,626	9,921	17,820	19,380
do. alloys	6,265	5,771	5,917	10,918		
Sulphate	1,711	759	971	1,906	3,181	964
Argentina—						
Ores	1,681	2,121	1,292	184	263	138
Matte	206	17	349	—	—	—
Bolivia—						
Ore, etc. (<i>Cu content</i>) ..	2,325	2,946	4,607	4,656	5,612	6,229
Unwrought	—	—	—	—	—	—
Chile—						
Ores and concentrates	33,231	33,976	r 24,950	27,640	30,525	29,790
Precipitate	7,347	8,365	r 6,796			
Copper cement	3,070	9,329	8,679	12,047	n.a.	n.a.
Unwrought—						
Blister	289,775	278,132	304,787	255,770	231,371	236,924
Refined	73,006	78,157	70,886	67,199	94,339	83,668
Electrolytic	166,381	166,138	r 136,216	148,355	218,024	271,874
<i>Cu content</i> (b) ..	559,488	577,316	555,251	513,910	n.a.	n.a.
Semi-manufactures ..	3,776	2,107	r 44,703	64,169	33,014	8,799
Peru—						
Ore (<i>Cu content</i>)	14,579	15,648	22,022	23,488	22,763	25,078
Matte, etc. (<i>do.</i>)	2,889	2,156	551	r 726	543	753
Precipitate (<i>do.</i>)	1,476	1,057	914			
Unwrought (<i>do.</i>)	152,495	144,205	152,979	152,793	150,051	164,230
Burma—						
Matte	398	235	450	398	n.a.	n.a.
Formosa—						
Ore	12,598	9,252	14,256	12,638	15,164	n.a.
Unwrought	—	—	3	252	—	n.a.
Japan—						
Unwrought	2,050	1,458	1,541	2,627	1,538	1,386
Semi-manufactures (a)	15,897	18,018	26,232	49,643	39,116	33,103
Sulphate	211	23	33	9	987	1,402
Korea (South)—						
Unwrought	39	—	2,057	2,879	716	308

(a) Including alloys.

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

EXPORTS OF COPPER, ETC. (cont.)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Philippine Republic—						
Ore and concentrates ..	180,647	278,714	243,524	253,662	<i>n.a.</i>	<i>n.a.</i>
Copper-gold-silver concentrates	35,173	1,462	6,245	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Scrap	1,706	878	1,189	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Turkey—						
Ore	35	—	8,297	7,972	<i>n.a.</i>	<i>n.a.</i>
Unwrought	14,200	9,885	12,779	20,035	19,604	15,514

IMPORTS OF COPPER, ETC.*

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore and matte	—	115	1,394	798	456	51
Unwrought—						
Electrolytic	380,543	345,098	376,638	436,230	429,249	384,727
Other refined	30,109	36,616	42,639	62,577	31,798	24,798
Blister	103,984	99,163	98,901	75,010	37,316	31,060
Alloys	78	608	308	121	134	53
Scrap	514	496	768	2,887	1,413	842
do. alloys	1,811	1,643	2,619	2,768	3,495	1,142
Semi-manufactures (a)	3,917	4,435	10,090	7,164	6,285	7,062
Malta—						
Semi-manufactures ..	£18,575	£25,387	£40,665	£46,934	£113,543	£55,001
Ghana—						
Semi-manufactures (a)	715	760	471	993	447	391
Kenya—						
Unwrought (a)	32	62	31	74	61	43
Semi-manufactures (a)	164	202	147	275	317	544
Sulphate	25	38	63	53	76	21
Mauritius—						
Semi-manufactures (a)	46	88	107	81	45	26
Nigeria—						
Unwrought and semi-manufactures (a) ..	1,776	2,215	1,864	1,562	2,680	2,193
Rhodesia (c)—						
Semi-manufactures (a)	1,011	690	6,282	4,174	<i>n.a.</i>	<i>n.a.</i>
Sierra Leone—						
Semi-manufactures (a)	142	49	70	56	680	<i>n.a.</i>
Tanzania—						
Unwrought (a)	—	2	1	4	1	1
Semi-manufactures (a)	78	140	64	57	103	111
Sulphate	1	4	1	1	3	17
Uganda—						
Semi-manufactures (a)	67	65	80	122	155	146
Zambia—						
Unwrought (a)	<i>n.a.</i>	<i>n.a.</i>	39	131	11	19
Semi-manufactures (a)	<i>n.a.</i>	<i>n.a.</i>	349	710	466	383
Sulphate	<i>n.a.</i>	<i>n.a.</i>	35	12	30	223
Canada—						
Unwrought	124	5,846	(d) 6,045	(d) 5,131	(d) 9,368	(d) 4,740
Scrap (a)	489	2,995	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Semi-manufactures ..	1,234	1,511	r (d) 1,523	(d) 4,075	(d) 2,092	(d) 1,925
do. alloys	2,745	3,459	(d) 3,294	(d) 8,670	(d) 3,509	(d) 6,641
Sulphate	390	327	194	435	225	416
Barbados—						
Semi-manufactures (a)	75	77	207	75	53	38
Jamaica—						
Semi-manufactures (a)	135	116	160	151	223	209
Sulphate	2	(b) 50	2	1	—	10
Trinidad and Tobago—						
Semi-manufactures (a)	184	157	189	281	199	111
Sulphate	16	37	15	21	20	22
Guyana—						
Semi-manufactures (a)	19	<i>n.a.</i>	36	69	22	66
Ceylon—						
Unwrought (a)	26	32	29	43	52	123
Semi-manufactures (a)	395	471	753	596	564	1,061
Cyprus—						
Semi-manufactures (a)	87	68	57	25	107	76

*See footnote on p.106 concerning the descriptions "unwrought" copper and "semi-manufactures" used in these tables.

(a) Including alloys.

(b) Excess of re-exports.

(c) Figures for years 1962 and 1963 relate to Rhodesia and Nyasaland.

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

IMPORTS OF COPPER, ETC. (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
<i>(cont.)</i>						
Hong Kong—						
Unwrought (a)	95	204	508	3	121	115
Scrap (a)	1,546	734	354	12	611	2,548
Semi-manufactures (a)	7,337	8,355	11,881	8,831	7,626	9,450
Copper sulphate	10	27	29	10	10	82
India (e)—						
Unwrought	68,489	68,312	51,824	42,471	19,698	22,461
do. alloys	152	10	58	196	98	141
Scrap (a)	1,478	1,457	1,954	1,042	590	1,013
Semi-manufactures (a)	5,407	4,958	5,580	14,748	14,237	15,719
Malaysia (West)—						
Unwrought (a)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	33	18	23
Semi-manufactures (a)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	2,219	2,390	1,806
Sulphate	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	114	160	182
Pakistan—						
Unwrought	2,472	2,473	322	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Scrap	146	124	124	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Semi-manufactures	<i>n.a.</i>	5,144	702	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sulphate	183	285	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sabah—						
Semi-manufactures (a)	66	105	95	84	61	30
Sarawak—						
Semi-manufactures (a)	94	86	153	160	167	82
Singapore—						
Semi-manufactures (a)	1,436	1,437	1,066	1,767	1,954	2,186
Sulphate	114	141	132	127	77	85
Australia (c)—						
Unwrought	5,386	1,238	5,038	32,654	943	3,078
do. alloys (b)	4	289	1,090	—	192	46
Scrap (a)	118	205	535	526	374	1,190
Semi-manufactures (a)	5,560	2,638	1,818	4,136	2,110	1,737
Sulphate	1,131	2,077	1,223	2,586	1,276	1,675
Fiji—						
Semi-manufactures (a)	110	64	61	68	59	47
New Zealand—						
Unwrought (a)	148	(c) 133	(c) 184	(c) 120	(c) 258	(c) 173
Semi-manufactures (a)	11,126	(c) 12,130	(c) 12,934	(c) 13,447	(c) 15,370	(c) 12,739
Irish Republic—						
Unwrought (a)	196	126	98	129	156	146
Semi-manufactures (a)	4,339	5,348	5,002	7,172	7,046	6,213
Sulphate	1,578	1,913	1,481	850	894	630
OTHER COUNTRIES						
Austria—						
Ore	498	298	271	681	726	—
Unwrought—						
Unrefined	4,817	5,011	5,945	5,299	4,996	4,720
Refined	17,073	15,844	18,053	17,188	13,907	15,507
Alloys	129	334	425	625	678	167
Scrap	691	3,248	1,736	979	870	397
do. alloys	1,907	1,227	2,784	4,250	4,492	4,355
Semi-manufactures (a)	3,813	3,469	4,113	3,607	4,087	3,973
Belgium-Luxembourg						
E.U.—						
Ore	5,875	3,960	2,141	2,192	11,954	10,608
Unwrought (a) (d)	301,776	275,956	316,844	312,370	338,520	307,634
Scrap	31,559	35,926	48,172	66,606	55,954	48,569
Semi-manufactures (a)	6,636	6,936	8,300	8,881	8,173	8,584
Sulphate	121	126	344	206	236	276

 (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	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Bulgaria—						
Sulphate	6,271	6,655	7,991	6,595	<i>n.a.</i>	<i>n.a.</i>
Denmark—						
Unwrought	4,566	3,786	4,372	3,526	3,924	3,595
do. alloys	228	113	103	181	54	51
Scrap (a)	105	17	80	283	287	397
Semi-manufactures (a)	24,832	21,356	23,711	29,530	20,847	22,222
Sulphate	2,286	2,599	3,767	2,969	2,847	2,206
Finland—						
Unwrought (a)	6,229	2,696	5,643	12,059	11,546	6,524
Semi-manufactures (a)	2,022	2,079	1,995	3,766	4,403	4,258
Sulphate	708	710	794	1,328	1,697	989
France—						
Unwrought—						
Unrefined	4,839	6,109	9,648	4,643	6,776	11,426
Refined	223,100	208,907	244,863	257,864	297,171	231,575
Alloys	2,096	1,925	963	1,849	1,385	1,601
Scrap	2,678	1,789	2,075	2,898	2,323	1,711
do. alloys	6,215	6,750	4,988	8,786	16,099	9,603
Semi-manufactures (a)	6,086	10,564	14,854	15,504	20,715	23,258
Sulphate	3,247	1,906	1,320	60	281	127
Germany (Federal)—						
Ore	131,513	156,041	146,971	142,583	134,604	130,251
Burnt cupreous pyrites	1,095,231	979,785	1,112,599	1,253,434	1,245,012	1,231,635
Matte	7,335	2,320	2,259	1,430	1,609	351
Unwrought—						
Unrefined	99,424	120,171	133,717	139,832	144,029	162,164
Refined	296,063	251,181	304,991	294,510	261,062	267,909
Alloys	36,090	38,831	42,089	43,099	35,851	42,806
Scrap (a)	26,605	36,278	78,178	107,380	77,069	82,021
Semi-manufactures (a)	19,788	26,078	42,227	71,525	55,918	32,919
Sulphate	542	541	929	1,597	2,047	2,176
Greece—						
Unwrought—						
Unrefined	4,891	1,080	1,584	—	592	} 8,309
Refined	2,344	5,542	4,376	6,268	4,794	
Scrap	868	406	31	4	6	17
Semi-manufactures	461	650	581	719	380	414
Sulphate	6,127	3,994	4,608	232	3,764	2,614
Hungary—						
Unwrought	18,534	17,279	22,363	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sulphate	7,224	3,809	4,368	4,427	9,047	11,590
Iceland—						
Semi-manufactures (a)	283	210	187	225	192	177
Italy—						
Unwrought—						
Unrefined	12,468	9,837	5,422	2,027	2,743	4,352
Refined (a)	224,046	210,798	189,206	199,378	212,183	226,351
Scrap (a)	23,120	21,524	13,682	35,034	38,941	32,947
Semi-manufactures (a)	7,358	12,207	8,930	8,238	10,600	10,259
Sulphate	1,390	1,246	5,855	5,160	2,728	2,643
Netherlands—						
Unwrought	21,349	25,798	34,034	31,746	28,601	30,510
do. alloys	1,725	1,508	1,979	2,788	2,102	2,245
Scrap (a)	4,846	8,231	8,566	10,275	8,574	10,615
Semi-manufactures (a)	40,170	40,207	57,690	67,505	60,034	49,289
Sulphate	2,172	2,413	2,628	2,984	2,636	2,729
Norway—						
Copper-nickel matte	59,896	55,559	50,009	59,760	60,405	52,673
Unwrought	5,110	4,587	4,970	4,576	4,643	3,502
do. alloys	429	415	228	284	365	554
Scrap (a)	95	—	66	157	5	3
Semi-manufactures (a)	18,538	18,288	19,975	21,367	23,298	22,786
Sulphate	398	269	566	1,561	1,397	1,148

(a) Including alloys.

IMPORTS OF COPPER, ETC. (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Poland—						
Concentrates	9,060	12,137	18,798	16,177	20,552	18,337
Unwrought	35,923	34,592	27,485	28,550	35,887	37,098
Sulphate	5,305	1,754	1,566	1,371	2,917	3,012
Portugal—						
Ore and concentrates ..	9,060	10	—	—	—	—
Matte	118	22	—	—	—	3,912
Unwrought (a)	6,476	5,294	5,294	6,607	6,321	3,833
Scrap	230	235	353	134	117	78
Semi-manufactures (a)	3,446	4,578	5,137	5,473	6,727	5,954
Sulphate	5,305	4,210	4,542	2,472	74	644
Spain—						
Ore	22,547	17,602	19,569	22,503	22,462	33,271
Unwrought (a)	26,538	28,475	41,372	33,637	53,082	59,285
Scrap (a)	15,470	10,217	10,040	17,230	19,372	11,002
Semi-manufactures (a)	3,831	9,679	9,919	17,725	16,970	6,208
Sulphate	30	51	70	42	128	31
Sweden—						
Ore	21,293	77,555	65,908	75,694	73,755	61,734
Matte	9,255	7,231	10,653	8,298	9,114	17,471
Unwrought—						
Unrefined	1,876	1,973	1,465	307	—	—
Refined	69,143	63,131	56,278	62,344	54,791	63,261
Alloys	3,005	2,312	3,614	5,827	2,738	2,636
Scrap (a)	1,498	3,297	4,617	10,230	9,518	6,729
Semi-manufactures (a)	9,346	12,357	17,764	34,736	32,081	18,306
Sulphate	211	214	96	95	42	106
Switzerland—						
Unwrought	39,635	37,291	37,220	40,585	41,330	40,408
do. alloys	2,117	1,010	637	1,043	1,165	1,409
Scrap (a)	425	222	296	421	538	550
Semi-manufactures (a)	21,123	16,394	20,444	24,126	23,193	20,865
Sulphate (cu. content) ..	143	298	394	21	412	445
U.S.S.R.—						
Unwrought	104,700	86,600	9,400	700	7,300	13,779
Sulphate	5,905	8,661	8,858	—	—	—
Yugoslavia—						
Unwrought	6,999	5,911	9,347	6,179	3,536	15,546
Semi-manufactures (a)	549	591	2,551	2,151	4,838	5,283
Scrap	4,141	4,434	3,091	10,962	9,354	1,148
Angola—						
Semi-manufactures (a)	393	298	396	514	770	558
Sulphate	3	26	163	25	25	18
Egypt—						
Unwrought and scrap ..	6,481	10,131	5,222	3,348	4,133	n.a.
Semi-manufactures (a)	619	n.a.	379	n.a.	n.a.	n.a.
Malagasy Republic—						
Semi-manufactures (a)	170	114	179	140	96	89
Morocco—						
Semi-manufactures (a)	2,122	3,006	2,571	2,074	2,236	2,245
Sulphate	—	10	1	—	—	—
Mozambique—						
Semi-manufactures (a)	431	681	408	508	701	n.a.
South Africa—						
Ore and concentrates ..	n.a.	n.a.	4,947	6,021	6,143	8,279
Unwrought	24,571	25,614	30,809	32,479	38,495	32,126
do. alloys	39	66	—	37	—	—
Semi-manufactures (a)	2,121	1,344	4,308	3,746	3,973	4,260
Sudan—						
Unwrought	—	125	3	222	—	—
Semi-manufactures ..	589	271	242	—	59	18
Sulphate	255	1	2	396	3	353

(a) Including alloys.

IMPORTS OF COPPER, ETC. (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Tunisia—						
Semi-manufactures (a)	337	399	640	523	538	1,161
Sulphate	91	346	131	147	94	123
Costa Rica—						
Semi-manufactures (a)	212	241	163	312	280	237
Sulphate	157	11	26	30	26	28
Cuba—						
Ore	22	—	20	—	—	n.a.
Semi-manufactures ..	3,954	3,272	2,866	n.a.	n.a.	n.a.
Guatemala—						
Semi-manufactures (a)	106	85	183	200	104	151
Sulphate	19	12	16	31	8	53
Honduras—						
Sulphate	45	34	33	55	45	99
Mexico—						
Unwrought (a) ..	28	21	19	55	12	10
Semi-manufactures (a)	214	735	451	1,177	633	582
Sulphate	5	—	1	—	—	—
Nicaragua—						
Semi-manufactures ..	80	71	154	126	129	174
Panama Republic—						
Sulphate	11	—	—	n.a.	n.a.	n.a.
Salvador—						
Semi-manufactures ..	n.a.	8	586	975	1,712	1,621
United States (b)—						
Cu content of—						
Ore and concentrates	2,074	10,266	38,616	10,130	10,358	31,851
Matte, precipitate, etc.	19	2,500	96	378	331	71
Unwrought—						
Blister	999	106,456	360,605	290,549	398,418	241,722
Refined	116,540	109,954	100,620	104,793	145,637	294,722
Scrap	3,434	1,960	4,638	12,222	21,346	16,392
do. alloys	1,151	844	883	2,738	6,571	3,450
Semi-manufactures ..	17,251	n.a.	n.a.	57,398	109,141	83,658
do. alloys	23,389	n.a.	n.a.			
Sulphate	74	n.a.	n.a.	485	n.a.	n.a.
Argentina—						
Unwrought	17,177	15,647	20,861	22,873	13,941	12,102
Brazil—						
Ore	—	—	—	—	—	—
Unwrought (a) ..	41,447	47,448	27,371	22,417	42,229	35,861
Semi-manufactures (a)	374	231	337	315	494	264
Sulphate	4,653	4,081	3,335	2,713	3,115	1,970
Colombia—						
Unwrought	162	365	633	953	547	535
Semi-manufactures (a)	4,148	4,403	5,833	3,428	5,060	3,566
Sulphate	3	50	7	1	45	3
Peru—						
Semi-manufactures (a)	1,136	773	609	3,837	887	6,774
Sulphate	188	225	554	165	104	42
Uruguay—						
Unwrought	n.a.	n.a.	n.a.	1,029	600	792

(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):

	1962	1963	1964	1965	1966	1967
Ore and concentrates	38,319	43,427	45,924	32,522	37,117	32,372
Matte	566	666	537	458	331	79
Unwrought—						
Blister	296,148	329,519	347,838	296,929	312,426	265,068
Refined	88,232	106,397	123,213	122,683	145,180	325,130
Scrap	4,279	2,610	3,994	13,699	25,934	16,044

IMPORTS OF COPPER, ETC. (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Venezuela—						
Semi-manufactures (a)	5,094	5,857	6,376	6,634	7,767	6,774
Sulphate	303	223	55	2,068	46	22
Burma—						
Semi-manufactures (a)	—	374	134	264	<i>n.a.</i>	<i>n.a.</i>
Formosa—						
Unwrought (a) ..	2,405	2,250	1,996	1,450	975	<i>n.a.</i>
Semi-manufactures (a)	1,102	917	2,766	4,031	3,829	<i>n.a.</i>
Indonesia—						
Semi-manufactures (a)	2,087	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sulphate	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Iran (b)—						
Unwrought (a) ..	402	1,201	499	1,010	421	4,923
Scrap	1,106	1,233	784	108	44	71
Semi-manufactures (a)	3,709	2,451	3,179	3,403	3,660	6,761
Iraq—						
Semi-manufactures (a)	1,745	1,086	1,156	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Ore and concentrates ..	514,230	556,140	586,470	575,070	680,196	1,006,011
Matte	35,435	34,542	24,113	33,781	25,706	24,522
Unwrought	36,158	55,321	117,853	110,573	133,090	258,380
do. alloys	206	165	2,631	2,648	14,211	13,379
Scrap	7,812	17,079	28,829	12,531	9,699	13,023
do. alloys	74,953	64,463	77,373	51,392	65,827	62,873
Semi-manufactures (a)	1,428	1,255	5,884	11,345	7,682	1,730
Sulphate	1,142	—	—	—	520	—
Jordan—						
Semi-manufactures (a)	158	188	216	94	127	236
Korea (South)—						
Unwrought and						
Semi-manufactures ..	<i>n.a.</i>	97,099	233	112	351	2,084
Lebanon—						
Semi-manufactures (a)	524	501	668	529	480	587
Philippine Republic—						
Semi-manufactures (a)	4,622	3,427	4,580	4,898	<i>n.a.</i>	<i>n.a.</i>
Sulphate	<i>n.a.</i>	109	—	—	<i>n.a.</i>	<i>n.a.</i>
Thailand—						
Unwrought (a) ..	215	155	336	354	388	361
Semi-manufactures (a)	1,802	2,173	2,914	3,502	3,568	5,082
Turkey—						
Semi-manufactures (a)	104	418	363	196	507	401
Sulphate	1,540	34	3,152	4,687	90	—

(a) Including alloys.

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

DIAMONDS
PRODUCTION OF DIAMONDS†

Metric carats

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Ghana (b)	3,210,060	2,681,700	2,668,000	2,273,000	2,815,500	2,537,500
Lesotho	<i>n.a.</i>	<i>n.a.</i>	(a) 2,472	5,492	(a) 12,506	(a) 21,737
Sierra Leone	1,637,402	a) 1,738,547	a) 1,649,847	1,461,145	1,436,722	1,160,102
Tanzania	660,029	590,949	650,461	756,969	946,656	926,757
Guyana	100,145	99,748	109,682	112,873	98,887	97,351
India	1,131	1,432	2,260	4,466	2,113	7,626
TOTAL	5,609,000	5,112,000	5,083,000	4,614,000	5,312,000	4,751,000
OTHER COUNTRIES						
Angola—						
Gem	762,395	788,406	874,096	886,788	967,972	982,868
Industrial	318,709	295,165	274,972	268,937	300,169	305,632
Congo Republic—						
Gem	256,000	296,000	295,000	14,106	11,483	794
Industrial	14,400,000	14,468,000	14,457,000	12,489,768	12,417,000	13,153,602
Central African Republic	265,417	402,186	442,281	536,810	539,935	520,628
Ivory Coast	283,911	179,660	200,270	198,179	183,435	175,825
Guinea	(c) 350,000	54,000	(c) 50,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
South Africa	3,917,891	4,375,572	4,449,978	5,025,598	6,036,677	6,667,607
South West Africa	1,027,233	1,194,630	1,541,544	1,656,234	1,758,956	<i>n.a.</i>
Venezuela	176,493	69,674	115,604	88,800	84,695	69,630
TOTAL*	22,000,000	22,000,000	23,000,000	21,000,000	23,000,000	24,000,000
WORLD'S TOTAL* ..	28,000,000	28,000,000	28,000,000	26,000,000	28,000,000	29,000,000

†For values see next page.

*Including an estimate for diamonds produced in Brazil but excluding diamonds produced in the U.S.S.R., Liberia and Indonesia. Production in the U.S.S.R. is reported to have been as follows (metric carats): 1962—2,500,000; 1963—2,750,000; 1964—*n.a.*; 1965—*n.a.*; 1966—*n.a.*; 1967—*n.a.*

Note—Estimated production of synthetic diamond in the United States was as follows (metric carats): 1962—3,000,000; 1963—5,00,000; 1964—5,200,000; 1965—5,400,000; 1966—6,000,000; 1967—8,000,000.

(a) Exports.

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

		Companies	African diggers
1962	..	2,266,185	943,875
1963	..	2,119,400	562,300
1964	..	2,290,000	378,000
1965	..	2,222,000	51,000
1966	..	2,772,000	47,000
1967	..	2,519,000	18,800

(c) [■]Estimated.

PRODUCTION OF DIAMONDS†

£ sterling

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Ghana (b)	7,162,000	5,895,000	6,355,000	4,981,000	7,637,000	6,303,000
Lesotho	<i>n.a.</i>	<i>n.a.</i>	(a) 56,266	265,938	(a) 348,603	(a) 508,328
Sierra Leone	11,634,018	a16,163,671	a19,911,496	b17,701,000	b17,038,000	b14,870,785
Tanzania (b)	5,508,000	5,040,000	6,646,000	6,623,000	9,439,000	11,147,000
Guyana	(b) 800,000	(c) 800,000	(b) 966,000	(b)1,290,000	(b)1,110,000	b 1,701,000
India	28,100	38,900	91,350	185,300	86,000	158,000
TOTAL	25,000,000	28,000,000	r34,026,000	31,046,000	35,659,000	34,688,000
OTHER COUNTRIES						
Angola	(b)7,602,000	(b)8,020,000	(b)9,786,000	b11,260,000	14,537,610	b14,856,400
Congo Republic—						
Gem	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Industrial	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Central African Republic	(b)1,574,000	3,600,000	(b)4,700,000	(b)5,379,000	(b)5,698,000	5,361,000
Ivory Coast (b)	551,000	477,000	564,000	660,000	649,000	(c)1,310,000
Guinea	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
South Africa (c)	17,942,000	18,636,000	22,149,000	25,686,000	32,727,000	29,355,000
South West Africa (c)	18,635,000	18,417,000	30,411,000	36,729,000	43,952,000	<i>n.a.</i>
Venezuela (b)	1,965,000	953,000	1,581,000	1,214,000	1,158,000	952,000
TOTAL*	62,000,000	63,000,000	83,000,000	94,000,000	112,000,000	109,000,000
WORLD'S TOTAL*	87,000,000	91,000,000	117,000,000	125,000,000	147,000,000	144,000,000

†For quantities in metric carats see previous page.

*Including an estimate for diamonds produced in Brazil.

(a) Exports.

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

(c) Estimated.

SALES OF DIAMONDS

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

				(£ sterling)
				<i>Gem and Industrial</i>
1962 .. ..	..	..	..	96,271,340
1963 .. ..	..	..	..	115,978,441
1964 .. ..	..	..	..	133,186,049
1965 .. ..	..	..	..	148,316,941
1966 .. ..	..	..	..	177,845,823
1967 .. ..	..	..	..	178,763,764
1968 .. ..	..	..	..	250,129,109

EXPORTS OF DIAMONDS

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom— Diamonds .. £	<i>n.a.</i>	<i>n.a.</i>	151,239,797	158,384,070	196,109,871	188,297,234
Ghana— Industrial diamonds Ct.	3,327,506	1,513,740	2,569,376	3,084,365	1,998,683	1,989,890
	£ 7,424,285	£ 3,327,307	£ 6,120,369	£ 6,758,903	£ 5,421,633	£ 4,944,000
Sierra Leone .. Ct.	1,157,520	1,738,547	1,649,847	1,525,437	1,319,326	1,161,063
	£ 7,108,862	£ 16,163,671	£ 19,911,496	£ 18,479,519	£ 15,645,912	£ 14,878,774
Tanzania Ct.	323,978	275,958	337,711	417,097	452,988	} Ct. 987,605
Gem diamonds ..	£ 4,510,045	£ 4,173,247	£ 5,795,763	£ 6,185,707	£ 7,698,478	
Industrial diamonds Ct.	323,200	312,753	326,059	410,675	451,414	} £11,146,500
	£ 891,912	£ 848,698	£ 985,391	£ 1,069,662	£ 1,301,550	
Guyana Ct.	93,845	<i>n.a.</i>	106,607	105,355	94,579	72,948
	£ 772,233	<i>n.a.</i>	£ 938,842	£ 1,203,704	£ 1,062,063	£ 1,282,182
India (b)— Gem diamonds £	(c) 519	2,243,441	2,017,175	3,546,137	5,352,306	7,874,865
Malaysia (West)— Cut and polished £	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	20,238	1,804	—
Australia (a)— Gem diamonds Ct.	4	7	80	118	81	122
	£ 146	£ 2,764	£ 4,826	£ 5,423	£ 3,061	£ 12,000
OTHER COUNTRIES						
Belgium-Luxemburg E.U.— Cut and polished Ct.	1,183,562	1,347,032	1,520,733	1,561,285	1,646,844	1,643,915
	£ 48,942,384	£ 56,868,240	£ 69,582,566	£ 74,649,405	£ 89,378,579	£ 91,188,586
Industrial, rough and bort Ct.	6,764,984	9,018,333	8,943,065	9,373,860	12,075,495	11,887,839
	£ 20,487,001	£ 24,042,133	£ 29,477,700	£ 29,255,142	£ 37,762,590	£ 41,479,746
France— Uncut £	548,619	514,358	618,313	643,337	682,941	586,514
Cut £	1,003,052	1,083,090	1,605,013	1,205,007	1,553,013	1,283,526
Industrial diamonds £	41,497	35,277	32,885	34,812	3,644	7,400
Dust £	44,767	41,108	40,851	40,505	62,158	149,570
Netherlands .. Ct.	958,519	1,463,794	1,078,097	965,766	1,309,679	1,513,823
	£ 7,954,000	£ 9,233,929	£ 10,412,728	£ 10,102,000	£ 12,944,895	£ 10,482,423
Dust Ct.	655,214	671,432	695,156	879,989	1,078,617	1,118,363
	£ 665,000	£ 668,948	£ 671,168	£ 829,210	£ 1,014,840	£ 1,055,440
Sweden— Industrial diamonds £	57,500	64,938	68,136	64,300	109,700	20,786
Angola Ct.	985,776	1,293,243	1,094,541	1,157,411	1,264,020	1,315,890
	£ 6,931,325	£ 9,571,554	£ 9,321,830	£ 11,275,960	£ 13,992,259	£ 15,178,147
Central African Republic .. Ct.	175,267	395,542	421,040	509,445	552,451	479,025
	£ 1,039,244	£ 3,827,354	£ 4,474,569	£ 5,105,142	£ 5,829,775	£ 4,929,308
Congo (Republic of) Ct.	2,629,070	5,683,603	5,264,891	5,303,706	<i>n.a.</i>	<i>n.a.</i>
	£ 4,555,700	£ 6,885,700	£ 7,041,400	£ 7,127,500	<i>n.a.</i>	<i>n.a.</i>
Ivory Coast .. Ct.	415,910	213,515	235,975	199,015	181,090	191,285
	£ 807,000	£ 567,055	£ 664,398	£ 663,000	£ 640,700	£ 595,800
Liberia Ct.	905,000	748,000	571,868	540,000	555,000	1,025,625
	£ <i>n.a.</i>	£ <i>n.a.</i>	£ 1,392,000	<i>n.a.</i>	<i>n.a.</i>	£ 5,379,000
South Africa (d)— Uncut Ct.	1,743,794	2,043,307	1,809,284	2,203,752	2,630,320	2,776,500
	£ 25,198,054	£ 32,816,417	£ 37,027,602	£ 47,814,596	£ 60,848,827	£ 58,926,628
Cut and polished Ct.	132,968	124,118	111,429	146,209	174,701	184,670
	£ 11,395,195	£ 10,207,231	£ 10,444,073	£ 14,510,333	£ 18,132,667	£ 19,749,624

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

(c) Excluding diamonds sent by post.

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

	1962	1963	1964	1965	1966	1967
Ct.	998,519	1,475,231	2,638,598	<i>n.a.</i>	<i>n.a.</i>	1,971,751
£	550,494	1,156,355	810,418	<i>n.a.</i>	<i>n.a.</i>	1,115,288

EXPORTS OF DIAMONDS (cont.)

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
United States—						
Uncut Ct.	22,543	28,663	39,335	60,573	85,897	58,832
£	563,552	791,556	927,795	1,102,237	1,495,184	1,056,717
Cut Ct.	30,005	68,939	112,975	98,870	114,941	128,077
£	4,940,386	11,791,063	13,907,174	14,329,631	19,520,407	20,948,620
Industrial diamonds Ct.	715,042	1,068,239	1,324,195	2,003,218	1,097,346	147,564
£	807,423	1,179,434	1,686,715	2,616,860	1,600,202	335,300
Dust Ct.	828,611	1,095,737	1,892,097	1,147,838	2,403,000	4,317,410
£	791,906	1,065,309	1,467,212	1,168,736	2,472,158	4,543,983
Brazil Ct.	n.a.	n.a.	5,345	30,585	35,515	4,245
£	n.a.	n.a.	30,978	227,916	378,863	89,000
Venezuela .. Ct.	82,189	49,583	88,960	n.a.	n.a.	n.a.
£	915,000	678,000	n.a.	n.a.	n.a.	n.a.
Israel—						
Polished.. .. Ct.	975,576	1,152,787	1,240,737	1,332,728	1,450,017	1,448,627
£	31,804,487	41,421,821	49,161,000	54,966,168	67,856,000	70,025,500
Industrial .. Ct.	96,284	n.a.	n.a.	n.a.	n.a.	n.a.
£	279,167	n.a.	n.a.	n.a.	n.a.	n.a.
Dust Ct.	5,291	n.a.	n.a.	n.a.	n.a.	n.a.
£	4,879	n.a.	n.a.	n.a.	n.a.	n.a.
Japan—						
Industrial diamonds Ct.	44,475	56,910	64,380	109,455	361,085	473,315
£	43,948	56,291	63,806	108,371	356,803	563,708
Cut and polished ct.	32,890	15,530	2,005,685	676,465	587,105	647,920
£	229,700	294,857	250,495	306,044	233,554	391,420

IMPORTS OF DIAMONDS

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom	£ n.a.	n.a.	149,220,456	177,306,790	187,340,191	213,397,699
Malta—						
Rough diamonds	£ 31,346	69,968	2,901	7,546	3,399	1,836
Cut and polished	£ 1,515	2,283	3,804	6,204	6,421	6,733
Zambia—						
Industrial diamonds	Ct. n.a.	n.a.	144,323	9,857	17,505	11,750
	£ n.a.	n.a.	227,974	13,919	26,261	20,015
Canada—						
Unset	Ct. 55,865	57,166	r (b) 59,330	(b) 69,924	(b) 68,147	(b) 72,754
	£ 2,690,080	2,642,916	rb3,189,162	(b)4,090,331	(b)4,065,008	(b)4,514,245
Dust, bort, etc. . .	Ct. 997,396	999,454	r 894,208	1,285,945	1,398,853	1,383,487
	£ 1,764,130	1,704,873	r 1,472,208	2,168,271	2,443,118	2,479,746
Bermuda	£ (a) 31,582	n.a.	n.a.	—	—	—
Hong Kong—						
Gem diamonds ..	Ct. 306,790	332,925	136,284	254,894	310,798	286,568
	£ 12,866,232	12,678,209	4,790,550	9,133,870	14,971,776	15,315,089
Industrial diamonds	£ (a) 2,443	(a) 1,695	4,772	(a) 462	(a) 6,649	(a) 1,197
India (c)—						
Gem diamonds ..	£ 89,321	116,315	8,696	149,695	669,572	2,210,007
Industrial and bort	£ 32,279	39,516	192,683	139,552	379,549	603,128
Malaysia (West)—						
Gem diamonds	£ n.a.	n.a.	n.a.	1,276,317	615,844	491,269
Australia (d)—						
Industrial diamonds	Ct. 217,759	260,400	470,928	370,697	405,453	490,794
	£ 326,921	375,285	593,615	571,405	595,000	736,400
Other diamonds	Ct. 10,760	20,370	28,506	32,349	29,494	25,841
	£ 784,045	903,575	1,046,208	1,315,222	1,404,000	1,574,000
New Zealand—						
Industrial diamonds	£(N.Z.) 11,458	(d) 11,644	(d) 10,492	(d) 13,265	(d) 11,488	(d) 17,880
Other diamonds	£(N.Z.) 179,432	(d) 217,332	(d) 196,433	(d) 168,300	(d) 217,936	(d) 208,116
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Rough diamonds	Ct. 3,880,889	4,652,817	5,080,413	5,764,017	7,134,069	6,971,660
	£ 36,237,817	40,490,058	50,393,320	52,376,176	65,232,682	58,994,400
Cut diamonds ..	Ct. 245,103	404,554	428,975	484,589	566,405	597,876
	£ 14,689,707	23,868,326	27,962,424	29,984,182	40,872,859	41,189,797
Industrial, rough and bort	Ct. 8,038,843	8,706,554	9,440,154	8,827,020	10,297,150	9,530,780
	£ 13,824,796	14,763,283	16,659,322	16,821,049	20,602,264	18,982,312
France—						
Uncut	Ct. n.a.	n.a.	n.a.	n.a.	n.a.	767,780
	£ 2,604,433	2,273,907	2,346,682	2,389,651	2,868,688	2,893,358
Cut and polished	Ct. n.a.	n.a.	n.a.	n.a.	n.a.	82,675
	£ 3,121,584	4,115,598	5,337,109	4,638,958	6,379,727	6,136,175
Industrial diamonds	Ct. n.a.	n.a.	n.a.	n.a.	n.a.	153,195
	£ 6,977	3,790	5,408	32,769	8,161	9,695
Dust	Ct. n.a.	n.a.	n.a.	n.a.	n.a.	1,330,045
	£ 744,041	904,300	950,599	1,086,192	1,148,510	1,239,787
Netherlands ..	Ct. 1,304,671	1,826,812	1,438,384	1,183,579	1,544,472	1,647,356
	£ 7,934,000	8,398,214	10,275,512	10,747,441	12,257,024	11,063,001
Dust	Ct. 506,539	539,315	597,020	950,459	1,177,370	764,936
	£ 476,000	485,913	541,998	835,370	1,152,454	671,437
Norway	Ct. 12,765	4,980	5,000	95,000	5,000	40,000
	£ 2,216	1,085	1,952	2,451	2,954	3,159

(a) Excess of re-exports.

(b) Excluding uncut.

(c) Years ended March 31 following that stated.

(d) Years ended June 30 of that stated.

IMPORTS OF DIAMONDS (cont.)

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Sweden—						
Industrial diamonds £	293,900	389,982	284,224	452,200	462,800	379,354
Yugoslavia—						
Industrial diamonds Ct.	28,880	30,120	646,300	116,945	252,150	372,285
£	12,042	22,638	42,393	11,278	102,265	78,211
South Africa—						
Rough diamonds ..	(a)	(a)	(a)	(a)	(a)	(a)
Cut and polished Ct.	446	1,163	1,423	7,182	1,477	1,818
£	18,453	31,881	60,807	360,869	51,620	103,922
Mexico—						
Uncut Ct.	5,460	3,040	2,125	n.a.	n.a.	5,815
£	54,813	51,311	29,410	n.a.	n.a.	n.a.
Industrial diamonds Ct.	114,555	102,585	131,225	n.a.	n.a.	35,000
£	87,402	116,147	92,918	n.a.	n.a.	n.a.
United States—						
Uncut Ct.	1,420,443	1,749,641	1,547,955	1,900,936	2,032,432	2,505,763
£	36,457,710	46,382,143	53,474,506	62,663,214	74,480,654	77,231,000
Cut and polished Ct.	982,278	1,017,620	1,096,795	1,258,745	1,451,596	1,454,992
£	31,739,585	33,563,214	38,858,883	47,081,428	59,335,818	63,326,000
Industrial diamonds Ct.	7,725,194	9,551,542	6,529,209	5,412,395	7,408,160	6,043,063
£	13,868,802	15,646,013	13,775,968	12,355,677	14,293,492	12,735,000
Dust Ct.	4,555,949	2,295,486	2,752,382	4,259,995	5,453,374	4,752,930
£	4,295,036	2,164,991	2,371,582	3,772,443	4,639,805	3,910,000
Bort, manufactured Ct.	n.a.	n.a.	3,901,982	2,612,309	3,336,252	4,254,996
£	n.a.	n.a.	3,492,697	2,453,557	2,892,237	3,651,000
Argentina—						
Industrial diamonds Ct.	17,895,000	1,430,000	905,000	19,922	60,000	1,290,000
£	22,400	14,400	n.a.	n.a.	n.a.	20,200
Dust Ct.	10,000	2,775	12,060	2,007	3,000	5,000
£	400	700	1,200	n.a.	n.a.	n.a.
Israel—						
Rough diamonds Ct.	2,154,656	2,962,000	2,972,000	2,708,000	3,125,000	3,090,000
£	25,795,620	35,782,000	41,875,000	39,599,000	49,712,000	50,028,000
Industrial diamonds Ct.	n.a.	213,000	442,000	590,000	624,000	588,000
£	n.a.	620,000	1,231,000	2,043,000	2,091,000	1,763,000
Bort Ct.	n.a.	440,000	542,000	504,000	699,000	765,000
£	n.a.	376,000	426,000	387,000	490,000	576,000
Dust Ct.	17,030	n.a.	n.a.	n.a.	n.a.	n.a.
£	8,400	n.a.	n.a.	n.a.	n.a.	n.a.
Japan—						
Industrial diamonds Ct.	266,420	341,720	382,825	390,220	524,055	734,010
£	1,031,601	1,407,000	1,819,000	1,857,999	2,420,110	3,381,502
Uncut Ct.	1,774,905	29,490	34,300	44,815	32,705	24,195
£	220,832	205,445	198,246	189,730	213,270	223,055
Cut and polished Ct.	351,930	531,140	664,395	285,115	247,495	469,055
£	2,161,952	4,097,030	5,867,651	9,253,027	13,775,084	15,175,187
Dust Ct.	b 1,167,890	b 1,411,705	b 1,570,160	1,431,260	1,741,990	1,983,410
£	b 1,314,128	b 1,403,914	b 1,614,088	1,487,665	1,789,325	1,925,186

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

	Total imports		Re-exports	
	Carats	£	Carats	£
1962	16,046,826	12,535,491	16,644,518	28,578,832
1963	17,042,298	13,245,064	15,731,598	29,360,073
1964	15,737,300	13,818,406	18,389,917	30,567,203
1965	19,102,532	19,096,236	n.a.	n.a.
1966	13,286,020	14,757,100	19,850,338	23,549,404
1967	19,140,474	18,639,679	n.a.	n.a.

(b) Includes synthetic dust.

DIATOMACEOUS EARTH
PRODUCTION OF DIATOMACEOUS EARTH

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom ..	20,011	14,237	13,717	15,079	14,697	12,484
Kenya	2,863	3,283	3,007	2,183	1,744	1,856
Canada (a)	188	712	1,021	73	62	—
Australia	7,312	5,133	8,732	6,958	7,148	3,822
New Zealand	1,874	1,603	1,679	1,729	4,660	1,408
OTHER COUNTRIES						
Austria	4,119	3,874	3,771	3,970	3,695	3,599
Denmark—						
Diatomaceous earth (b)	11,000	6,000	5,000	4,000	6,862	9,267
Moler (b)	160,000	150,000	150,000	180,000	(h) 92,947	(h) 94,352
Finland	1,181	2,300	2,136	935	1,181	(e) 982
France (f)	125,083	130,629	130,981	148,256	139,027	157,103
Germany (Federal) ..	60,490	42,250	47,086	51,790	50,525	55,595
Italy	55,695	58,490	68,255	62,267	61,725	(e) 63,973
Portugal (f)	1,427	1,845	1,970	2,586	3,433	4,038
Spain (f)	11,922	10,026	11,167	11,724	n.a.	n.a.
Sweden	225	357	214	392	473	500
Yugoslavia (e) ..	4,000	10,000	10,000	10,000	10,000	n.a.
Algeria	27,290	17,369	20,080	15,500	15,579	17,975
Egypt	50	818	n.a.	n.a.	n.a.	n.a.
Mozambique	344	—	—	—	32	27
South Africa	578	196	487	961	214	576
Costa Rica	738	(e) 1,900	(e) 3,500	2,953	(e) 2,900	(e) 10,000
Nicaragua	1,262	(e) 1,600	—	—	—	n.a.
United States	(c) 430,543	(d) 518,105	(d) 518,105	(d) 518,105	(g) 625,000	612,500
Argentina	3,340	5,585	7,649	5,999	10,770	8,017
Colombia	150	2,200	227	200	—	n.a.
Peru	1,450	2,440	2,552	2,432	1,540	3,676
Korea (South)	677	1,667	36,635	570	252	2,203

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

(a) Shipments.

(b) Estimated.

(c) Average annual production 1960-1962.

(d) Average annual production 1963-1965.

(e) United States Bureau of Mines' estimate.

(f) Including tripoli.

(g) Estimated average annual production 1966-1968.

(h) Exports.

EXPORTS OF DIATOMACEOUS EARTH

Long tons

Exporting Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Kenya	1,210	1,929	1,646	1,161	763	723
OTHER COUNTRIES						
Austria	101	161	133	136	253	239
Belgium-Luxemburg E.U.	354	797	951	926	839	856
Denmark— Diatomaceous earth ..	9,837	9,413	8,711	9,065	7,966	10,290
Moler	92,388	81,648	80,950	102,041	92,747	94,352
Moler bricks	32,467	33,740	35,944	41,036	38,811	34,712
Finland	125	99	117	2,139	134	96
France	14,434	12,001	14,360	16,302	19,471	16,865
Germany (Federal) ..	3,747	3,582	4,501	5,869	4,984	3,559
Italy	2,903	1,311	818	4,060	1,503	1,616
Netherlands	107	111	93	142	131	267
Norway	2	1	—	2	25	—
Portugal	283	275	532	459	334	280
Spain	359	197	523	780	949	1,038
Sweden	26	32	90	106	101	217
Yugoslavia	8,966	5,108	5,459	3,572	3,504	1,651
Algeria	16,144	12,951	14,387	10,028	7,051	n.a.
South Africa	n.a.	n.a.	654	851	244	—
United States	n.a.	n.a.	114,287	101,632	128,313	132,571
Chile	5	—	n.a.	n.a.	n.a.	n.a.
Japan	221	153	449	436	429	647

IMPORTS OF DIATOMACEOUS EARTH

Long tons

Importing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
In bulk (a)	39,888	} 53,620	56,238	45,848	42,363	46,467
Other	23,720					
Canada	23,302	23,761	22,401	22,401	26,089	29,758
India (d)	1,291	1,067	1,528	1,753	1,247	1,929
Malaysia (West)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	238	273	337
Australia (b)	4,317	4,259	4,579	5,789	5,028	5,082
New Zealand	1,593	(b) 895	(b) 650	(b) 706	(b) 785	(b) 819
OTHER COUNTRIES						
Austria	1,398	1,422	1,642	2,156	2,721	2,318
Belgium-Luxemburg						
E.U.	4,414	6,353	7,589	8,391	7,541	6,943
Denmark	1,091	1,321	1,732	1,748	2,352	2,488
Finland	2,130	1,245	1,010	752	905	1,119
France	10,500	8,822	13,793	7,860	8,987	6,994
Germany (Federal)	74,089	61,656	61,732	85,876	75,217	68,017
Greece	109	149	886	453	1,407	1,367
Iceland	3	828	604	511	968	1,554
Italy	2,458	1,637	6,975	7,959	9,468	6,112
Netherlands	7,456	6,544	8,051	8,397	8,050	7,383
Norway	5,834	3,789	3,983	3,878	4,313	4,963
Portugal	641	848	1,197	1,493	1,572	2,022
Spain	1,512	1,649	1,696	1,528	1,755	1,412
Sweden	5,081	7,291	8,369	8,634	8,636	9,311
Switzerland	3,077	2,340	1,903	1,568	2,013	1,918
Yugoslavia	49	147	247	140	325	585
Angola	70	87	82	145	129	177
Egypt	1,839	2,275	397	2,305	1,381	<i>n.a.</i>
Morocco	457	730	751	763	735	921
South Africa	2,382	2,618	4,107	3,041	3,228	3,529
Costa Rica	14	379	1,275	1,085	457	428
Guatemala	115	141	186	292	307	754
Honduras	95	75	85	106	82	64
Mexico	(c) 3,025	(c) 1,208	(c) 1,108	270	78	48
Salvador	235	332	430	361	405	28
Brazil	1,103	1,653	1,187	1,667	1,993	1,365
Chile (c)	487	799	r 492	315	<i>n.a.</i>	<i>n.a.</i>
Colombia	1,417	856	1,166	1,124	912	906
Peru (c)	906	908	1,675	3,395	3,447	3,373
Uruguay	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	245	300	305
Venezuela	2,731	1,931	2,602	1,958	2,085	1,897
Israel	827	527	190	193	343	349
Japan	820	637	839	763	806	1,276
Lebanon	162	746	652	1,533	1,188	130
Philippine Republic	1,862	2,223	269	2,230	<i>n.a.</i>	<i>n.a.</i>
Thailand	—	5	7	30	7	—
Turkey	11	28	56	47	20	53

(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	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
China stone	51,661	50,000	57,000	29,456	29,631	29,720
Kenya	—	—	—	—	161	396
Canada	8,923	7,686	8,169	9,736	9,754	9,424
Ceylon	56	109	4	613	412	292
Hong Kong	937	1,680	1,556	1,119	1,343	1,135
India	15,743	20,901	23,997	25,232	27,530	25,375
Pakistan	55	1,220	48	—	—	n.a.
Australia (a)	8,513	8,842	9,021	8,726	7,259	4,390
OTHER COUNTRIES						
Austria	4,976	2,077	1,603	1,397	1,507	2,441
Finland	14,920	12,620	10,560	11,685	25,901	(c) 35,000
France	119,000	180,000	n.a.	n.a.	n.a.	n.a.
Germany (Federal) (b) ..	269,769	273,664	299,989	313,280	285,796	261,464
Italy	98,367	100,486	109,851	r 95,467	143,199	145,133
Norway—						
Unground	(e) 54,000	55,599	47,475	40,918	52,291	96,391
Ground	(e) 20,000	20,506	22,547	22,067	34,457	16,707
Poland	n.a.	26,300	(c) 26,300	(c) 26,300	(c) 27,600	n.a.
Portugal	3,674	396	10,895	8,165	1,603	n.a.
Spain	8,267	12,477	16,466	25,166	49,819	n.a.
Sweden (d)—						
Unground	28,454	17,409	21,606	18,295	12,396	9,800
Ground	24,894	27,512	29,353	27,909	24,205	25,100
U.S.S.R. (c)	195,000	r 205,000	r 215,000	r 225,000	235,000	235,000
Yugoslavia	31,578	29,413	33,260	55,052	40,914	42,000
Angola	—	796	493	—	—	—
Egypt	—	—	4,653	(c) 4,000	3,444	n.a.
Eritrea	425	(c) 490	(c) 9,800	—	1,526	n.a.
Malagasy Republic	—	—	1	—	—	—
South Africa	28,210	41,372	35,525	41,636	33,996	24,498
South West Africa	464	2,196	1,893	2,281	1,179	n.a.
Mexico	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
United States (d)	492,476	548,954	587,194	624,598	655,452	615,397
Argentina	7,245	12,599	6,390	19,822	21,071	18,911
Chile	1,138	417	814	408	1,099	n.a.
Colombia	15,000	12,500	11,426	10,600	18,779	n.a.
Peru	287	217	837	926	470	2,460
Uruguay	692	282	883	1,227	1,722	1,242
Japan	46,991	53,339	61,445	57,244	50,645	52,667
Korea (South)	4,651	11,392	13,468	15,595	15,053	16,551
Philippine Republic	15,325	6,564	7,924	12,095	8,479	n.a.
Turkey	n.a.	n.a.	2,000	n.a.	n.a.	n.a.
TOTAL*	1,600,000	1,700,000	1,900,000	1,900,000	2,000,000	1,900,000

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

(a) Including china stone.

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

(c) United States Bureau of Mines' estimate.

(d) Sold or used by producers.

(e) Estimated.

EXPORTS OF FELDSPAR

Long tons

Exporting Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Canada	3,302	2,930	3,023	3,345	3,057	<i>n.a.</i>
India (b)	710	2,076	5,282	4,960	4,587	7,863
OTHER COUNTRIES						
Austria (a)	2,245	553	645	1,725	2,131	404
Belgium-Luxemburg						
E.U.	—	222	84	41	73	61
Finland	10,999	7,821	5,443	8,845	21,739	36,063
France (a)	13,451	19,172	26,476	24,938	23,096	19,609
Germany (Federal) (a) ..	11,144	11,759	11,926	11,576	11,697	11,891
Italy	16,737	19,126	21,440	22,809	23,213	24,176
Netherlands (a)	2,290	4,201	5,033	2,048	534	473
Norway—						
Crude	35,972	35,282	43,158	31,339	31,614	30,924
Ground	14,140	15,345	22,077	18,621	18,087	12,370
Sweden (a)	30,580	25,816	26,807	19,617	16,148	13,660
Yugoslavia	18,451	16,336	20,901	24,779	20,058	20,305
South Africa	7,682	10,298	6,255	9,966	10,677	7,050
South-West Africa	470	874	2,476	1,410	816	<i>n.a.</i>
Japan	1,765	1,729	1,711	2,339	2,694	3,552
Korea (South)	<i>n.a.</i>	4,008	11,094	21,437	13,245	28,072

(a) May include some leucite and nephelite.

(b) Years ended March 31 following that stated.

IMPORTS OF FELDSPAR

Long tons

Importing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom	36,586	36,298	58,101	61,476	80,655	72,840
Canada	1,697	2,322	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
New Zealand	(a) 1,486	(a)(c) 2,854	(a)(c) 1,399	(a)(c) 1,349	(a)(c) 1,198	(a)(c) 1,656
OTHER COUNTRIES						
Austria (b)	4,311	5,952	7,285	8,366	8,010	7,507
Belgium-Luxemburg						
E.U. (b)	31,701	25,406	30,422	29,920	33,160	34,246
Denmark (b)	5,483	6,193	4,192	5,307	6,157	4,741
Finland (b)	648	1,064	727	891	1,023	1,245
France (b)	9,865	9,237	10,968	15,688	15,278	11,757
Germany (Federal) (b) ..	32,337	37,265	43,057	50,397	52,140	47,984
Italy	9,527	11,260	10,808	14,481	10,212	16,916
Netherlands (b)	19,618	28,456	28,489	26,540	25,638	26,112
Poland	<i>n.a.</i>	7,366	11,654	13,955	11,281	11,746
Sweden (b)	873	313	307	2,870	4,895	5,570
Morocco (b)	217	69	—	—	<i>n.a.</i>	39
South Africa (b)	<i>n.a.</i>	<i>n.a.</i>	104	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Cuba	1,476	862	7,509	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Mexico	1,270	1,346	1,413	1,041	1,439	1,925
United States	3,330	3,074	3,180	3,455	3,243	3,063
Colombia	(a) 297	(a) 509	(a) 202	84	19	17
Venezuela	6,492	4,927	7,864	7,827	8,399	8,187
Israel	1,909	1,639	2,048	2,658	1,946	1,624
Japan	2,543	2,666	5,880	4,251	4,339	4,635
Vietnam (South)	88	105	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Turkey	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	263

(a) Including fluorspar.

(c) Years ended June 30 of that stated.

(b) May include some leucite and nephelite.

FLUORSPAR
PRODUCTION OF FLUORSPAR

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom (a) ..	71,744	87,099	107,765	128,933	152,211	151,940
Rhodesia	18	306	69	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Canada (e)	£623,083	£654,285	£749,683	£888,365	£728,289	£807,584
India	647	697	383	641	2,130	1,588
Australia	—	15	—	—	—	—
OTHER COUNTRIES						
France	223,513	210,353	261,400	299,935	331,975	344,000
Germany—						
Federal Republic ..	104,100	102,921	88,357	81,609	83,210	85,554
East (b)	70,000	70,000	70,000	80,000	80,000	<i>n.a.</i>
Italy	157,776	132,507	122,725	r 150,911	192,137	201,955
Spain	147,640	150,977	147,317	217,186	232,020	256,700
Sweden (c)	3,442	2,904	—	—	—	—
U.S.S.R. (b)	235,000	270,000	300,000	350,000	350,000	375,000
Morocco	487	6,250	6,466	3,000	—	—
South Africa	99,717	51,572	59,313	64,747	80,595	93,802
South West Africa ..	214	429	—	—	—	<i>n.a.</i>
Tunisia	—	—	—	r 3,000	2,584	4,000
Mexico	494,325	474,012	632,719	723,766	714,925	772,714
United States (d) ..	183,952	178,525	193,872	215,118	225,954	263,967
Argentina	12,320	9,608	9,816	11,736	15,834	15,000
China (b)	200,000	200,000	200,000	220,000	225,000	250,000
Japan	15,286	20,569	18,820	16,254	(b) 15,700	11,487
Korea (South)	32,449	39,157	55,506	38,548	31,502	56,068
Mongolia	37,300	(b) 48,000	(b) 56,100	(b) 73,800	(b) 73,800	(b) 74,100
Thailand	10,541	28,768	62,535	51,013	47,268	131,049
Turkey	572	642	1,282	1,060	1,725	425
TOTAL	2,200,000	2,200,000	2,500,000	2,800,000	2,900,000	3,200,000

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

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

(b) United States Bureau of Mines' estimate.

(c) Sales.

(d) Shipments from mine.

(e) Official figures available by value only. Company figures of shipments, which exclude small amounts produced in British Columbia, are as follows (long tons): 1962—69,400; 1963—76,000; 1964—86,000; 1965—100,000; 1966—*n.a.*; 1967—*n.a.*

EXPORTS OF FLUORSPAR

Long tons

Exporting Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Canada	4	2,688	<i>n.a.</i>	<i>n.a.</i>	11	<i>n.a.</i>
OTHER COUNTRIES						
Finland	<i>n.a.</i>	—	592	19	2,371	—
France	43,471	45,836	57,699	84,968	87,001	107,381
Germany (Federal)	14,109	11,415	12,146	10,431	11,045	9,254
Italy	48,341	37,664	46,413	51,636	54,403	83,930
Spain	86,611	85,238	135,149	152,128	128,314	168,515
Sweden	474	148	58	—	348	430
Morocco	<i>n.a.</i>	1,499	8,905	1,422	<i>n.a.</i>	<i>n.a.</i>
South Africa	69,810	52,602	50,503	41,954	56,621	88,640
South-West Africa	91	—	—	—	—	—
Mexico	460,908	492,368	618,761	670,380	731,456	744,335
United States	1,168	1,073	3,305	8,419	5,118	9,236
Argentina	569	549	667	504	867	339
Bolivia	<i>n.a.</i>	<i>n.a.</i>	9	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Japan	57	44	37	238	268	459
Korea (South)	23,238	31,392	31,760	32,013	38,599	47,422
Thailand	6,852	15,624	38,055	47,140	72,507	124,120

IMPORTS OF FLUORSPAR

Long tons

Importing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Canada	60,578	59,625	62,487	62,364	67,254	84,146
India (c)	7,157	10,377	4,226	3,111	5,545	8,221
Australia (a)	2,692	7,585	5,915	8,430	15,529	17,983
OTHER COUNTRIES						
Austria	8,010	8,307	14,362	13,794	13,591	13,337
Belgium-Luxemburg	—	—	—	—	—	—
E.U.	6,339	6,328	8,005	7,059	6,487	9,775
Denmark	569	456	472	597	1,668	1,678
Finland	4,802	2,905	3,162	6,282	4,840	4,287
France	224	76	—	324	3,060	3,421
Germany (Federal)	64,581	46,642	59,773	109,095	118,441	116,572
Italy	7,998	9,778	14,559	5,587	14,612	32,346
Netherlands	10,937	8,702	14,243	18,672	15,558	19,556
Norway	1,512	1,534	1,859	3,094	2,738	2,383
Poland	<i>n.a.</i>	22,000	26,400	29,784	39,579	29,961
Sweden	14,097	10,698	11,020	20,553	20,858	10,498
U.S.S.R.	78,900	89,500	130,400	114,500	93,400	83,067
Yugoslavia	3,418	3,026	3,972	3,429	7,010	1,174
Mexico	—	50	11	8	70	2
United States	532,044	495,646	614,226	729,059	784,416	814,170
Brazil	543	443	—	—	—	25
Chile	<i>n.a.</i>	418	<i>n.a.</i>	742	<i>n.a.</i>	<i>n.a.</i>
Colombia	(b) 297	(b) 509	(b) 202	186	147	26
Venezuela	542	382	475	164	3,744	1,968
Israel	361	756	513	915	318	516
Japan	100,629	126,856	203,573	168,851	220,710	353,207
Turkey	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	3,469

(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	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
India	(b) 16,000	(b) r 30,000	(b) 25,000	n.a.	n.a.	n.a.
Pakistan	8,882	n.a.	n.a.	n.a.	n.a.	n.a.
Australia	392	70	159	152	—	75
OTHER COUNTRIES						
Algeria	37,820	80,319	52,087	58,940	(b) 60,000	(b) 60,000
Morocco	32,124	36,777	31,779	37,009	30,004	26,138
South Africa	934	879	161	580	—	1,131
United States (a)	366,062	430,194	492,755	602,162	678,248	717,785

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

(a) Sold or used by producers.

(b) Estimated.

EXPORTS OF FULLER'S EARTH*

Long tons

Exporting Country	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
Morocco	25,897	28,867	22,833	21,956	27,679	21,291
United States	(a) 214	n.a.	n.a.	16,585	20,784	27,096
Iran (b)	27	16	74	7	6	6

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

(a) As recorded by producers.

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

IMPORTS OF FULLER'S EARTH

Long tons

Importing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Malawi	n.a.	n.a.	48	128	146	n.a.
Zambia	n.a.	n.a.	n.a.	157	223	202
Canada	n.a.	n.a.	5,566	6,125	6,805	8,106
	(£57,827)	(£46,660)	(£61,410)	(£65,546)	(£72,968)	(£87,429)
Ceylon	147	211	354	201	433	150
India (a)	120	129	254	177	47	63
OTHER COUNTRIES						
South Africa	977	1,137	n.a.	n.a.	n.a.	n.a.
Chile	942	423	r 663	5	n.a.	n.a.
Peru	1,964	2,186	1,487	1,214	n.a.	896
Venezuela	501	439	549	913	797	987
Burma	978	48	139	337	n.a.	n.a.
Israel	2,376	3,666	4,526	n.a.	n.a.	n.a.

(a) Years ended March 31 following that stated.

GOLD
PRODUCTION OF GOLD
(Metal content)

Fine troy ounces

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Botswana	288	142	10	—	—	—
Ghana	888,700	920,895	864,918	755,191	684,395	762,609
Kenya	9,327	10,193	12,480	12,013	11,898	33,366
Nigeria	329	252	195	63	40	39
Rhodesia	544,647	566,278	575,386	544,100	(d) 550,000	(c) 515,000
Sierra Leone	26	n.a.	n.a.	n.a.	n.a.	n.a.
Swaziland	2,214	2,092	2,078	1,619	308	—
Tanzania	104,383	100,399	93,338	(b) 90,819	(b) 55,473	18,486
Uganda (b)	240	50	—	40	—	—
Zambia	5,326	4,960	5,130	5,196	5,100	(c) 5,000
Canada	4,178,396	4,003,127	3,835,454	3,606,031	3,318,006	2,986,092
Guyana	1,747	2,613	1,936	1,906	2,795	2,378
India	163,300	138,400	148,500	130,600	120,200	101,600
Malaysia (West) (c)	6,600	8,700	6,900	3,800	2,800	1,300
Sarawak	2,885	2,773	3,115	2,601	2,611	2,521
Australia	1,068,837	1,023,970	963,834	877,643	916,985	810,801
Fiji	87,354	107,262	100,493	109,095	112,567	110,033
New Guinea and Papua	39,052	43,599	38,978	32,494	28,106	27,671
New Zealand	21,742	14,206	8,948	12,136	8,964	10,703
Solomon Islands	—	48	113	310	n.a.	n.a.
TOTAL	7,125,000	6,950,000	6,662,000	6,185,000	5,820,000	5,388,000
OTHER COUNTRIES						
Finland	15,239	20,416	22,055	18,037	15,465	(d) 14,000
France	51,090	53,630	54,296	57,390	60,164	62,730
Germany (Federal)	1,704	2,048	2,402	1,865	(d) 1,800	(d) 1,100
Portugal	21,900	21,900	21,300	21,500	18,800	18,400
Spain	6,700	16,000	24,000	8,300	450	n.a.
Sweden	128,600	115,200	117,700	118,100	79,570	60,090
Yugoslavia	70,507	83,656	106,773	103,911	84,942	(d) 86,000
Angola	77	37	7	2	—	—
Cameroun	580	1,743	864	1,352	961	993
Central African Republic	90	90	70	20	40	—
Congo (Republic of)	3,470	2,700	3,270	3,390	3,730	4,590
Congo Republic	205,000	214,100	189,000	66,000	160,000	153,000
Egypt	—	—	—	—	—	n.a.
Eritrea	2,315	(d) 2,300	(d) 2,300	} 24,236	21,256	23,612
Ethiopia	25,700	(d) 25,000	(d) 25,000			
Gabon	14,900	32,700	39,100	34,000	31,500	29,386
Liberia (d) (a)	2,184	1,960	1,824	1,701	4,351	5,111
Malagasy Republic	309	900	420	568	809	755
Mozambique	91	29	40	30	11	22
Rwanda and Burundi	30	n.a.	n.a.	n.a.	n.a.	n.a.
South Africa	25,491,993	27,431,956	29,111,524	30,553,874	30,879,700	30,532,880
South-West Africa	183	3	32	14	12	—
Sudan	932	r 868	877	300	(c) 200	n.a.

- (a) Years ended August 31 of year stated.
(b) Exports.
(c) Estimated.
(d) United States Bureau of Mines' estimate.

PRODUCTION OF GOLD (cont.)

Fine troy ounces

Producing Country	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Upper Volta	35,790	40,310	29,400	29,250	14,470	<i>n.a.</i>
Costa Rica (c)	3,000	3,000	3,000	600	600	500
Cuba (e)	—	61	—	—	—	—
Guatemala	(e) 8	—	—	—	—	—
Haiti	7,149	6,778	8,090	6,719	5,071	<i>n.a.</i>
Honduras (e)	2,132	2,474	3,319	3,546	3,516	2,860
Mexico	236,800	237,900	210,000	215,800	213,600	183,227
Nicaragua	221,984	204,769	211,900	198,152	169,154	194,683
Salvador	(e) 692	(e) 230	(e) 390	(e) 290	(e) 236	673
United States	1,542,511	1,454,010	1,456,308	1,705,190	1,803,420	1,584,187
Argentina	960	480	300	60	160	—
Bolivia (d)	35,052	153,033	50,042	84,950	16,268	<i>n.a.</i>
Brazil (a)	127,200	132,000	142,500	155,000	168,000	173,000
Chile	58,320	75,880	63,080	57,100	67,770	58,130
Colombia	396,827	324,518	364,748	316,267	275,267	257,588
Ecuador	20,591	21,041	16,905	11,512	10,901	6,738
French Guiana	5,300	6,000	—	—	630	7,588
Peru	122,985	101,019	92,503	105,183	94,978	95,559
Surinam	2,604	3,548	8,258	6,269	5,159	(c) 4,500
Venezuela	28,774	26,947	33,536	22,390	16,895	18,917
Burma	(c) 200	(c) 200	(c) 200	(e) 200	(c) 200	(c) 200
Cambodia	965	6,687	(c) 6,000	(c) 4,500	(c) 4,000	<i>n.a.</i>
Formosa	24,000	31,700	17,700	32,100	41,800	32,400
Indonesia	4,469	4,437	5,813	6,752	4,128	7,748
Japan	286,593	262,142	253,300	264,900	254,400	252,100
Korea (South)	106,500	90,090	75,780	62,820	60,540	63,337
Philippine Republic	423,394	376,006	425,770	437,474	453,546	490,557
TOTAL*	29,700,000	31,600,000	33,200,000	34,700,000	35,100,000	34,700,000
WORLD'S TOTAL* (excl. U.S.S.R.)	36,800,000	38,500,000	39,900,000	40,900,000	40,900,000	40,100,000

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

(a) Mined gold only.

(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	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Bullion, refined	28,965,803	18,985,458	17,593,435	76,518,130	36,952,000	60,360,000
Coin	694,102	865,340	2,408,318	2,100,438	1,324,117	920,170
Ghana—						
Bullion	945,829	910,367	830,839	782,723	690,036	767,340
Kenya—						
Bullion	8,917	8,868	12,162	13,813	12,019	26,942
Rhodesia (d)—						
Concentrates, etc.*	1,400	1,200	1,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Bullion	548,999	557,271	565,110	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Tanzania—						
Bullion, refined	101,597	102,519	93,040	90,817	55,473	18,486
Uganda—						
Bullion	240*	50*	—	40*	—	—
Canada—						
Bullion—						
Unrefined	60,812	76,131	87,797	87,479	86,352	103,774
Refined	2,769,243	2,305,337	3,161,509	1,940,013	1,171,898	2,296,197
Coin*	39,200	47,700	71,800	124,400	249,700	177,500
Guyana—						
Bullion	21	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Hong Kong	986,776	1,175,590	766,209	1,462,979	1,431,726	1,732,887
India—						
Bullion	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Australia (a)—						
Ores, etc.	42,195	47,305	55,568	48,543	131,349	151,909
Bullion, refined	573,106	394,950	449,003	576,575	768,702	515,134
do. unrefined	7	16,018	562	157	1	61,280
Fiji—						
Bullion	84,926	111,260	(c) 100,193	(c) 109,760	(c) 109,732	(c) 112,698
New Guinea (a)—						
Bullion	45,910	42,576	42,003	34,262	30,038	28,473
New Zealand*—						
Beaten, rolled or drawn	16,000	(a) 18,000	(a) 8,000	(a) 7,000	(a) 5,000	(a) 3,000
Papua (a)—						
Bullion	19	48	28	56	56	30
Solomon Islands—						
Bullion	457	240	101	323	349	672
Irish Republic*—						
Bullion	5,200	1,502	1,338	1,380	3,900	1,800
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Bullion and scrap	79,000*	51,000	48,000	51,000	79,000*	119,000*
Coin	235,000	289,000	113,000	60,000	106,000	64,301
France—						
Bullion and scrap	632,000*	691,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Coin	—	57,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Beaten, rolled or drawn	30,000*	32,000	28,000	21,000*	47,000*	53,000*
Germany (Federal)—						
Bullion	157,000	204,000	241,000	316,800	300,000	358,000

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

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

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

(d) Figures for years 1962 and 1963 relate to Rhodesia and Nyasaland.

EXPORTS OF GOLD (cont.)

Fine troy ounces

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Netherlands—						
Bullion, etc.	76,000	13,000*	17,000*	78,000*	28,000*	28,000
Coin	400	—	1,100	—	29,000	—
Sweden*—						
Bullion	52,000	54,000	57,000	56,000	57,000	16,000
Switzerland—						
Bullion	272,000	377,000	497,000	702,000*	659,000*	239,000
Cameroun—						
Bullion	700*	1,600	800	700*	<i>n.a.</i>	<i>n.a.</i>
Equatorial African Community—						
Bullion	14,000*	33,000	35,000*	30,000*	25,000*	23,000
Mozambique—						
Bullion	228,000*	397,000*	393,000*	291,000	294,000	<i>n.a.</i>
South Africa—						
Ore and concentrates*	1,393	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Bullion	19,390,000	23,733,000	30,846,000	35,090,000	24,534,000	32,294,000
Sudan*—						
Bullion	600	—	200	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Upper Volta—						
Bullion	28,000	45,000	33,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Honduras—						
Ore and base bullion	10,819	3,044	2,200*	—	3,860	4,906
Mexico—						
Bullion	36,000	30,000	22,000	6,000	7,000	<i>n.a.</i>
Nicaragua—						
Bullion	221,325	203,386	200,749	153,900*	147,829	145,804
United States—						
Ore and base bullion	22,724	30,107	21,566	49,836	49,117	112,578
Refined bullion	10,861,510	5,789,826	12,056,841	36,667,207	13,017,549	28,607,404
Bolivia—						
Ore	430	336	488	300	555	1,149
Bullion	34,622	152,697	49,554	84,650	15,683	<i>n.a.</i>
Chile—						
Ores and concentrates	51,248	69,639	55,621	52,920	<i>n.a.</i>	<i>n.a.</i>
Ecuador—						
Concentrates*	20,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
French Guiana—						
Bullion	5,500*	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,100
Peru—						
Ores, concentrates, etc.	58,902	40,197	36,847	35,734	43,594	} 33,887
Bullion	12,497	3,658	2,487	8,900	10,044	
Philippine Republic—						
Ore and base bullion (a)	47,673	56,138	46,067	62,184	93,872	56,677
Refined bullion (a)	298,229	291,045	318,615	321,583	295,718	286,087

(a) Imports into the United States.

TOTAL IMPORTS OF GOLD*

(Metal content)

Fine troy ounces

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore, etc.*	59,300	70	300	8,200	5,000	—
Bullion—						
Unrefined	1,539,964	1,675,865	1,550,421	1,526,633	763,770	819,002
Refined	32,542,211	32,622,702	39,299,321	37,884,653	25,838,792	33,735,000
Coin	500,348	382,260	451,450	551,080	72,060	118,382
Malta*—						
Bullion and coin ..	6,300	7,000	9,200	11,000	13,200	14,528
Ghana—						
Bullion	1,425	7,034	4,942	—	<i>n.a.</i>	610
Partly worked ..	—	1,094	808	1,904	<i>n.a.</i>	<i>n.a.</i>
Coin	—	—	2,115	49,933	<i>n.a.</i>	<i>n.a.</i>
Kenya—						
Bullion	398	634	5,285	6,858	7,034	6,748
Rhodesia* (d)—						
Concentrates ..	3,900	2,800	2,200	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Tanzania—						
Bullion	—	1,269	1,434	2,700	3,676	556
Uganda—						
Bullion	—	1,152	2,599	1,172	3,810	2,745
Canada—						
Bullion	80,436	119,803	141,318	373,302	155,716	473,808
Coin*	50,000	520,000	75,000	442,000	29,000	133,000
Jamaica*—						
Bullion and coin ..	200	<i>n.a.</i>	200	<i>n.a.</i>	—	5,998
Trinidad and Tobago—						
Bullion	7,349	8,718	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Brunei—						
Bullion	<i>n.a.</i>	<i>n.a.</i>	52,750	38,588	59,217	61,116
Ceylon*—						
Bullion	11,000	40	100	11,000	—	30
Partly worked ..	—	11,200	13,500	100	12,700	—
Cyprus—						
Bullion	7,182	10,219	7,581	13,036	15,706	16,084
Hong Kong—						
Bullion	969,207	1,178,742	753,366	1,496,147	1,371,774	1,756,121
India—						
Bullion	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Coin	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sabah—						
Bullion	<i>n.a.</i>	<i>n.a.</i>	4,610	15,528	<i>n.a.</i>	12,599
Sarawak—						
Bullion (b)	29,000	24,000	23,000	30,000	26,000	18,000
Australia (a)—						
Bullion	135,715	155,595	149,109	129,415	(e) 197,748	151,792
Fiji*—						
Bullion	300	200	400	200	300	300
New Zealand—						
Bullion	3,598	(a) 47	(a) 1,257	(a) 429	(a) 1,838	(a) 588
Beaten, rolled or drawn	6,662	(a) 10,837	(a) 9,746	(a) 10,150	(a) 10,744	(a) 13,088
Irish Republic*—						
Bullion	1,300	4,800	12,800	21,200	20,400	23,500

*See note on page 133.

(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 1962 and 1963 relate to Rhodesia and Nyasaland.

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

IMPORTS OF GOLD (cont.)

Fine troy ounces

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
Austria—						
Bullion	963,000*	211,000	683,000*	986,000*	1,161,000*	1,507,000
Belgium-Luxemburg						
E.U.—						
Bullion, scrap, etc. ..	284,000*	293,000	418,000	1,140,000*	656,000*	1,275,000
Coin	260,000	309,000	270,000	610,000*	579,000	479,000
Finland—						
Bullion and scrap ..	<i>n.a.</i>	800	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	77,700
France—						
Bullion and scrap ..	2,569,000*	10,011,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Coin	6,000	9,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Beaten, rolled or drawn	8,000	12,000	15,000	14,000	15,000	18,000
Germany (Federal)—						
Bullion	2,898,000	2,174,000	2,694,000	3,656,900*	3,686,000*	5,256,000
Coin	253,000	83,000	99,000	251,100	345,000	345,000
Italy—						
Bullion and scrap ..	3,782,000	2,413,000*	1,299,000*	1,578,000	1,071,000*	1,620,000
Netherlands—						
Bullion	188,000	146,000*	197,000	235,000*	38,000	35,000
Coin	—	—	100	—	1,000	39
Norway—						
Bullion	18,000	16,000	24,000	29,800	26,200	40,000
Sheets and rolled	1,500*	3,000*	5,000	4,400*	5,500*	6,500
Sweden—						
Bullion*	354,000	158,000	176,000	270,000	202,000	161,000
Switzerland—						
Bullion	46,000	64,000	162,900	245,000	247,000	680,000
Egypt—						
Bullion	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Mozambique—						
Bullion	110,000	112,000*	102,000*	200*	266,000	<i>n.a.</i>
Sudan—						
Bullion	—	—	64	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Mexico—						
Bullion	<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—						
Ore and base bullion ..	382,468	313,280	314,674	292,167	333,119	219,382
Refined bullion ..	3,929,718	967,339	854,211	2,613,161	866,926	710,487
Brazil—						
Bullion	400	600	1,300	125	250*	2,128
Formosa—						
Bullion	71,000*	110,000	112,000	11,000	215,000	<i>n.a.</i>
Lebanon—						
Bullion and scrap ..	2,450,000	1,418,000	2,272,000	2,610,000*	3,284,000	2,939,000
Syria—						
Bullion and scrap (a) ..	<i>n.a.</i>	<i>n.a.</i>	11,800	<i>n.a.</i>	<i>n.a.</i>	360,000

*See note on page 133.

(a) Gross weight.

GRAPHITE
PRODUCTION OF GRAPHITE

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Ceylon (c)	8,630	8,286	10,676	8,740	9,867	10,203
Hong Kong—						
72%-80% fixed carbon	351	537	617	—	—	3
50% fixed carbon ..	454	259	93	—	—	16
OTHER COUNTRIES						
Austria (a)	87,872	98,016	100,622	84,401	78,283	31,043
Germany (Federal) ..	11,727	12,609	13,211	13,397	12,935	11,666
Italy	2,970	1,833	1,664	r 1,152	1,053	1,847
Norway	6,449	7,508	7,128	8,346	7,818	7,439
U.S.S.R. (b)	55,000	55,000	r 59,000	r 59,000	64,000	64,000
Malagasy Republic—						
Flake	} 16,203	8,986	6,953	8,012	7,873	} 16,146
Powder		9,954	6,011	8,734	8,234	
South Africa	1,168	599	930	399	1,037	629
South-West Africa ..	—	—	246	354	357	n.a.
Mexico	28,565	29,519	29,857	39,775	38,140	40,047
Argentina	467	205	218	114	155	211
Brazil	1,486	5,929	4,598	6,851	9,018	9,080
China (b)	40,000	40,000	40,000	40,000	40,000	30,000
Formosa	(b) 800	(b) 800	n.a.	n.a.	n.a.	n.a.
Japan—						
Flake	2,982	2,501	2,024	} 2,216	2,168	n.a.
Amorphous	421	450	388			
Korea (South)—						
Flake	1,197	1,664	2,043	2,724	2,126	2,388
Amorphous	180,975	332,651	258,238	250,235	126,746	60,484
Korea (North) (b) ..	65,000	70,000	70,000	70,000	75,000	75,000
TOTAL*	530,000	700,000	r 630,000	615,000	495,000	379,000

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

(a) Crude.

(b) United States Bureau of Mines' estimate.

(c) Exports.

EXPORTS OF GRAPHITE

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Crucibles	2,964	2,644	3,527	3,553	3,391	3,650
Kenya	81	—	—	—	—	—
Ceylon	8,630	8,286	10,676	8,740	9,867	10,203
Hong Kong	461	100	460	352	305	30
India (b)	19	14	14	8	11	33
Australia (a)	3	10	3	20	21	—
OTHER COUNTRIES						
Austria	17,938	19,212	18,850	20,852	16,610	17,923
Belgium-Luxemburg						
E.U.	41	13	44	8	28	5
Denmark	4	3	10	13	7	2
France	1,166	1,738	2,250	1,871	1,760	1,667
Germany (Federal)	6,531	6,454	6,589	7,636	7,065	7,554
Italy	1,588	1,492	1,272	1,654	1,398	1,467
Netherlands	153	3	81	27	59	68
Norway	6,550	7,138	7,389	8,211	7,638	7,274
Sweden	26	35	8	24	133	155
U.S.S.R.	5,100	6,300	7,400	6,000	8,200	9,349
Malagasy Republic	16,203	15,547	13,833	17,661	16,549	15,943
South Africa	18	—	38	65	24	16
Mexico	29,741	29,418	31,194	36,871	36,586	38,110
United States	1,035	803	1,753	2,854	2,822	3,187
Formosa	<i>n.a.</i>	20	261	192	185	<i>n.a.</i>
Japan	3,248	414	345	689	666	640
Korea (South)	46,631	46,667	42,045	48,102	55,183	50,422

(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	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Natural	8,732	7,963	9,137	10,284	10,011	8,280
Artificial	262	205	531	2,635	737	1,831
Rhodesia (d)	47	40	n.a.	n.a.	n.a.	n.a.
Canada—						
Unground	(£19,525)	(£28,805)	n.a.	n.a.	n.a.	n.a.
Ground, including manufactures	(£455,912)	(£779,409)	n.a.	n.a.	n.a.	n.a.
Crucibles	(£85,142)	(£94,108)	(£81,196)	(£92,367)	n.a.	n.a.
Hong Kong	(c) 954	110	417	60	31	5
India (a)—						
Graphite	2,285	1,051	2,183	13,359	908	1,409
Crucibles	(£185,635)	(£171,540)	(£221,320)	(£257,062)	(£123,353)	(£253,131)
Malaysia West	n.a.	n.a.	n.a.	109	145	144
Pakistan—						
Graphite	391	441	474	n.a.	n.a.	n.a.
Australia (b)	(e) 836	(e) 1,223	(e) 1,268	(e) 1,543	1,211	1,449
New Zealand	34	(b) 41	(b) 27	(b) 36	(b) 89	(b) 207
OTHER COUNTRIES						
Austria—						
Graphite	216	141	219	293	231	293
Crucibles, etc.	167	160	174	227	259	412
Belgium-Luxemburg						
E.U.	906	870	997	887	617	537
Denmark	574	364	405	361	403	283
Finland	322	326	242	424	386	341
France	4,778	5,014	4,375	4,928	4,803	4,805
Germany (Federal)	14,227	13,109	15,955	17,449	14,284	16,706
Germany (East)	4,511	5,399	5,482	5,447	4,379	5,460
Greece	240	257	270	363	290	255
Iceland	11	1	—	—	1	—
Italy	8,788	10,203	9,181	11,275	9,385	13,567
Netherlands	390	386	358	337	242	182
Norway	413	245	244	280	452	380
Poland	n.a.	9,781	10,352	10,405	12,266	9,854
Portugal	112	104	109	130	142	156
Spain	475	677	796	788	926	761
Sweden	819	909	897	924	1,438	966
Switzerland	646	658	552	547	616	463
Yugoslavia	1,208	1,102	1,043	1,032	919	1,123
Egypt	328	n.a.	n.a.	n.a.	n.a.	n.a.
Morocco	19	21	14	18	18	8
Mozambique	4	3	33	6	4	n.a.
South Africa	554	771	540	442	422	465
Sudan	—	10	—	—	9	—
Tunisia	—	—	—	12	10	2
Mexico—						
Graphite	82	60	65	266	131	204
Crucibles	215	229	299	157	155	n.a.

(a) Years ended March 31 following that stated.

(b) Years ended June 30 of that stated.

(c) Excess of re-exports.

(d) Figures for years 1962 and 1963 relate to Rhodesia and Nyasaland.

(e) Including artificial.

IMPORTS OF GRAPHITE (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
United States (a)	31,151	46,263	42,093	51,798	50,568	50,322
Argentina	119	207	149	333	340	177
Brazil—						
Graphite	189	3	133	177	124	165
Crucibles	372	456	401	218	587	260
Chile	59	145	r 170	84	n.a.	n.a.
Colombia (b)	39	45	39	54	107	45
Peru (b)	50	37	87	107	72	251
Uruguay	n.a.	n.a.	n.a.	32	3	7
Venezuela	143	88	184	295	524	266
Burma	75	n.a.	96	472	n.a.	n.a.
Formosa	1,545	1,823	1,522	2,846	2,750	n.a.
Israel—						
Crucibles	25	n.a.	n.a.	n.a.	n.a.	n.a.
Lebanon (b)	19	37	538	105	10	34
Japan	65,256	60,330	55,773	51,437	51,909	54,325
Philippine Republic	270	74	107	34	n.a.	n.a.
Thailand	452	490	482	471	431	842
Turkey—						
Graphite	78	105	137	138	143	232
Crucibles, etc.	106	140	118	165	152	206

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

Year			Long tons
1962	..	..	4,142
1963	..	..	329
1964	..	..	50
1965	..	..	37
1966	..	..	99
1967	..	..	279

(b) Including artificial graphite.

GYPSUM
PRODUCTION OF GYPSUM

Long tons.

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Gypsum	1,966,600	1,990,800	2,467,100	2,596,200	2,534,000	2,671,000
Anhydrite	2,032,300	2,079,000	2,048,000	1,799,000	1,724,000	1,850,000
Kenya	26,420	20,401	27,552	33,929	33,210	39,807
Tanzania	1,965	1,847	2,910	r 6,126	3,190	15,235
Zambia	—	—	—	—	1,058	1,478
Canada (a)	4,820,113	5,430,622	rf 5,732,177	f 5,630,006	f 5,335,861	f 4,571,388
Jamaica	225,307	228,303	192,128	208,492	189,546	183,857
Trinidad	3,587	2,958	2,260	1,836	1,981	3,589
Cyprus (b)	140,000	120,000	70,000	80,000	70,000	60,000
India	1,106,689	1,172,103	868,555	1,142,000	1,273,000	1,011,764
Pakistan (g)	179,305	194,578	192,283	147,068	111,210	n.a.
Australia	630,910	725,444	795,003	833,521	801,552	790,014
Irish Republic	173,593	200,757	228,036	n.a.	n.a.	n.a.
OTHER COUNTRIES						
Austria—						
Gypsum	483,704	421,546	376,441	459,911	616,064	579,157
Anhydrite	189,631	153,845	182,657	148,250	148,653	147,232
Bulgaria	115,000	100,000	127,000	171,000	160,000	(e) 179,000
Czechoslovakia	367,000	297,000	345,000	366,000	(e) 374,000	n.a.
France (a)	3,933,861	4,141,636	4,834,477	4,933,544	5,188,513	5,108,097
Germany (Federal)—						
Gypsum	(c)1,095,387	(c)1,120,340	(c)1,258,200	(c)1,279,000	1,295,513	1,221,753
Anhydrite	96,215	57,414	99,819	140,643	142,710	99,203
Germany (East) (d)	266,000	250,000	261,000	254,000	255,000	268,000
Greece	92,795	121,925	138,394	157,248	200,516	207,000
Italy (including alabaster)	2,123,039	r 2,358,017	2,509,342	3,124,212	3,315,561	n.a.
Luxemburg	8,030	6,639	7,045	7,565	6,000	9,307
Poland	540,000	576,000	(e) 748,000	(e) 750,000	(e) 750,000	n.a.
Portugal	71,118	59,141	63,953	79,650	111,117	102,586
Spain—						
Gypsum (b)	3,455,000	4,475,000	3,307,000	3,588,000	n.a.	n.a.
Anhydrite (b)	46,000	50,000	n.a.	n.a.	n.a.	n.a.
Switzerland (e)	100,000	100,000	100,000	100,000	100,000	n.a.
U.S.S.R.	4,307,000	4,172,000	4,137,000	4,275,000	(e)4,330,000	e 4,500,000
Yugoslavia	116,000	136,000	153,000	164,000	166,000	167,000
Angola	16,047	13,983	9,890	10,000	(e) 10,000	(e) 10,000
Egypt	460,185	446,552	332,120	225,316	450,850	n.a.
Libya	—	—	400	1,836	3,000	3,000
Niger	—	—	—	1,500	(e) 2,000	1,702
South Africa	188,970	184,504	236,292	299,141	291,857	302,734
Sudan	7,384	4,450	4,000	4,000	2,000	(b) 4,000
Tunisia	16,000	18,000	n.a.	n.a.	n.a.	n.a.
Dominican Republic	432,466	34,760	107,962	88,085	89,000	n.a.
Guatemala	(e) 10,000	14,560	7,000	9,000	12,000	11,000
Mexico	782,000	1,080,000	1,146,654	1,064,660	1,133,000	n.a.
Nicaragua	3,200	2,500	5,500	5,000	9,000	10,000
United States	8,901,000	9,275,000	9,539,000	8,960,000	8,613,000	8,387,000
Argentina (a)	211,594	139,334	148,125	201,046	283,650	264,000
Brazil	106,372	103,952	83,072	71,392	78,956	70,322
Chile	(e) 113,000	104,000	117,278	105,466	118,000	130,653
Colombia	82,000	100,000	105,800	110,000	113,000	n.a.
Paraguay	n.a.	n.a.	770	2,200	3,000	n.a.
Peru	60,200	51,726	49,246	65,425	62,000	65,000
Venezuela	(e) 62,000	63,449	75,000	89,000	(e) 74,000	n.a.

(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	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES (cont.)						
Burma	(a) 1,000	(a) 1,000	(a) 1,000	(a) 1,000	(a) 1,000	(a) 1,000
Formosa	16,028	26,168	16,824	27,320	8,280	16,197
Israel	75,000	105,000	74,000	90,000	100,000	90,000
Japan	787,517	770,306	738,914	639,000	588,000	n.a.
Jordan	9,000	(b) 8,600	n.a.	n.a.	n.a.	n.a.
Philippine Republic	14,225	30,209	40,311	27,054	24,000	14,944
Saudi Arabia	(b) 10,500	(b) 35,000	(b) 30,000	22,242	25,000	(b) 25,000
Syria	15,000	(b) 15,000	20,000	(b) 15,000	(b) 15,000	(b) 15,000
Thailand	21,000	23,512	41,238	11,063	39,003	60,722
Turkey (a)	140,000	180,000	200,000	220,000	250,000	275,000
TOTAL*	41,000,000	44,000,000	45,000,000	44,000,000	44,000,000	44,000,000

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

(a) Estimated.

(b) United States Bureau of Mines' estimate.

EXPORTS OF GYPSUM

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Calcined	7,516	6,723	7,602	10,570	11,589	8,653
Tanzania	2,165	1,864	2,910	4,488	1,526	—
Canada—						
Crude	3,716,962	4,199,212	4,515,404	4,238,070	4,171,891	3,478,691
Jamaica	256,786	134,492	137,463	192,738	197,769	188,696
Cyprus—						
Crude	35,099	54,279	42,523	41,042	55,650	12,954
Calcined	1,919	1,616	1,670	1,418	1,196	293
India (b)	—	—	5	1	—	—
Malaysia (West)—						
Crude and calcined ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	228	20	34
Singapore—						
Crude and calcined ..	1,771	476	306	756	1,157	593
Australia (a)—						
Crude	94,008	157,375	181,021	166,557	184,450	238,873
Calcined	4,008	351	269	543	617	516
Irish Republic—						
Crude	85,262	94,399	98,072	97,463	93,509	96,310
OTHER COUNTRIES						
Austria—						
Crude	38,399	48,157	56,078	57,139	77,665	92,600
Calcined	838	745	998	1,177	804	818
Belgium-Luxemburg						
E.U.—						
Crude	238	617	338	722	299	44
Calcined	13,891	13,647	15,261	15,482	13,789	10,481
Denmark—						
Crude and calcined ..	27	20	7	11	29	125
France—						
Crude	553,907	513,583	636,357	649,802	665,445	689,472
Calcined	119,517	124,327	118,063	124,348	129,210	134,715
Germany (Federal)—						
Crude and calcined ..	184,008	187,466	262,879	246,017	354,734	291,752
Germany (East)—						
Calcined	35,251	36,460	49,943	59,771	32,571	58,266
Italy—						
Crude	422	1,497	2,155	14,841	17,114	16,152
Calcined	6,649	7,722	11,007	3,237		
Netherlands—						
Calcined	148	167	155	167	100	229
Poland	<i>n.a.</i>	25,343	385,666	480,627	447,000	441,130
Portugal—						
Crude	146	194	153	130	216	122
Calcined	78	106	107	70	165	85
Spain—						
Crude and calcined ..	4,694	4,654	4,433	6,523	3,756	4,762
Sweden—						
Calcined	109	215	8	—	—	—
Switzerland—						
Ground and calcined ..	62	75	108	68	109	1,334
Yugoslavia—						
Crude	—	—	15	49	157	—
Ground and calcined ..	—	—	—			
Angola—						
Crude	6,651	2,968	5,592	5,478	5,613	9,486
Egypt—						
Crude and ground ..	53,769	51,179	77,752	37,742	52,199	<i>n.a.</i>
Calcined						

(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	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Morocco—						
Crude	22,098	16,581	13,178	34,356	48,772	49,887
Calcined	922	1,870	11,009	10,885	1,240	962
South Africa	16,429	15,213	16,575	19,507	21,293	20,373
Mexico—						
Crude	628,768	1,043,436	1,118,913	1,058,873	964,142	860,142
Calcined	6	6	13	80	22	69
United States—						
Crude and calcined	17,531	15,000	18,468	25,340	34,045	35,114
Argentina	3,899	8,237	9,122	13,922	17,945	13,097
Bolivia	<i>n.a.</i>	<i>n.a.</i>	687	467	1,929	1,920
Venezuela	1	5,571	3,423	1,183	2,166	6,693
Iran (a)—						
Crude	907	} 4,002	2,519	{ 46	—	—
Calcined	3,187					
Japan—						
Crude	4,704	6,978	6,526	6,439	6,438	6,726
Calcined	589	405	365	780	7,266	3,949
Syria	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	8,319	25,920	16,633

(a) Years ended March 20 following that stated.

IMPORTS OF GYPSUM

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Crude	131,579	} 139,864	154,481	156,212	147,010	143,378
Calcined	1,251					
Ghana	—	3	25	4,577	2,520	5,483
Malawi	<i>n.a.</i>	<i>n.a.</i>	675	1,357	904	<i>n.a.</i>
Nigeria—						
Crude	33,539	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Rhodesia (c)—						
Crude and calcined	19,044	15,130	9,252	7,707	<i>n.a.</i>	<i>n.a.</i>
Zambia	<i>n.a.</i>	<i>n.a.</i>	7,617	9,250	16,044	2,870
Bermuda—						
Calcined	396	828	601	306	325	267
Canada—						
Crude and ground	62,453	66,632	72,309	67,351	} 76,708	61,707
Calcined	6,296	7,484	3,712	4,216		
Hong Kong	<i>n.a.</i>	<i>n.a.</i>	9,870	9,832	17,766	4,329
India (a)—						
Crude	32,418	41,627	98,872	} 15,434	8	—
Calcined	10	10	14			
Malaysia (West)—						
Crude and calcined	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	18,026	25,671	29,928
Singapore—						
Crude and calcined	6,555	9,283	18,747	15,064	17,895	11,243
New Zealand—						
Crude	85,800	(b) 89,014	(b) 87,234	(b) 104,419	(b) 108,186	(b) 109,641
Calcined	4,103	(b) 1,696	(b) 2,362	(b) 1,858	(b) 1,650	(b) 1,279
OTHER COUNTRIES						
Austria—						
Crude	14,301	179	3,876	7,298	11,620	16,066
Calcined	3,456	4,409	3,736	42	7,546	11,008
Belgium-Luxemburg						
E.U.—						
Crude	305,245	305,399	372,748	375,278	388,658	378,147
Calcined	43,649	45,797	50,469	58,151	53,357	54,070
Denmark—						
Crude	59,038	50,029	77,806	92,621	89,038	100,299
Calcined	6,289	6,332	6,739	6,423	5,069	6,667
Finland—						
Crude	59,135	79,206	76,309	85,367	69,425	73,251
Calcined	36,702	41,658	43,947	45,463	38,041	39,676
France—						
Crude	18,006	13,478	17,479	17,644	18,234	16,715
Calcined	2,490	3,383	2,595	4,115	4,496	21,011
Germany (Federal)—						
Crude and calcined	64,668	72,813	78,809	76,482	98,229	119,380
Greece—						
Crude	37	41	44	51	72	<i>n.a.</i>
Calcined	174	221	197	318	333	700
Iceland	900	4,529	9,625	4,105	2,970	4,861
Italy—						
Crude	20	66	45	635	} 1,049	{ 1,550
Calcined	361	481	561	65		
Netherlands—						
Crude	89,903	99,870	185,512	140,610	231,693	154,450
Calcined	48,213	50,983	57,468	59,993	62,909	70,910
Norway—						
Crude	49,252	52,056	41,608	54,657	72,172	91,026
Calcined	4,461	4,408	4,926	5,142	4,294	4,271
Portugal—						
Crude	12,598	11,161	15,380	14,009	15,379	14,104
Calcined	5	9	17	10	7	11

(a) Years ended March 31 following that stated.

(b) Year ended June 30 of that stated.

(c) Figures for years 1962 and 1963 relate to Rhodesia and Nyasaland.

IMPORTS OF GYPSUM (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
(cont.)						
Sweden—						
Crude	242,181	204,283	307,065	368,307	333,235	333,207
Calcined	23,054	23,774	23,532	23,654	22,927	25,448
Switzerland—						
Crude	16,628	21,424	27,740	33,408	50,678	52,877
Ground and calcined	5,593	4,441	3,980	5,533	4,541	6,043
Angola—						
Crude and calcined	185	87	91	131	215	129
Malagasy Republic	1,125	2,159	1,228	2,120	2,342	n.a.
Morocco	48	—	—	—	11	—
Mozambique—						
Crude	6,950	5,609	4,502	5,694	8,319	n.a.
Calcined	128	201	94	83	88	n.a.
South Africa—						
Crude and calcined	2,397	2,562	3,167	3,451	4,600	4,701
Sudan	201	395	260	193	672	—
Tunisia—						
Calcined	290	207	541	300	393	397
Costa Rica	155	160	460	3,910	3,287	4,422
Honduras—						
Calcined	2	16	16	19	28	15
Mexico—						
Crude	88	75	43	121	41	114
Panama Republic	5,855	6,290	5,999	5,237	n.a.	n.a.
Salvador—						
Crude	1,382	998	984	2,743	1,991	7,589
Calcined	35	49	46	61	66	57
United States—						
Crude	4,840,068	4,902,052	5,587,234	5,277,909	4,892,000	4,216,071
Ground and calcined	1,589	202	1,218	1,366	2,000	437,500
Argentina—						
Crude	22	47	27	28	1	10
Brazil—						
Crude	31	39	916	841	2,014	1,225
Colombia—						
Crude	3,467	1	7,876	10,015	3,779	9,313
Calcined	586	463	596	196	709	68
Peru—						
Crude and calcined	69	23	148	104	209	424
Uruguay—						
Crude and ground	n.a.	n.a.	n.a.	12,482	18,929	19,287
Venezuela	37	57	86	81	124	206
Formosa	35,423	22,263	58,669	44,488	71,445	n.a.
Iran (a)	40	65	144	220	129	934
Israel—						
Crude	—	—	—	—	—	—
Calcined	46	70	49	111	172	170
Japan	78,411	106,601	89,551	49,537	48,308	43,267
Korea (South)	21,744	29,499	45,472	40,951	70,327	81,130
Lebanon	30,988	37,468	34,283	31,114	23,602	20,223
Philippine Republic—						
Crude	39,225	19,790	27,145	25,525	n.a.	n.a.
Calcined						
Thailand—						
Crude	30	89	102	157	147	111

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

IODINE
PRODUCTION OF IODINE

Lb. avdp.

Producing Country	1962	1963	1964	1965	1966	1967
Italy	23,953	7,209	—	—	—	—
Chile	4,826,785	4,757,112	4,763,265	5,027,000	6,462,000	4,886,000
Indonesia.. ..	<i>n.a.</i>	9,642	8,900	4,000	3,913	4,000
Japan	3,106,000	3,117,870	4,464,000	4,841,000	5,792,000	6,417,000

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

EXPORTS OF IODINE

Lb. avdp.

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom ..	45,780	36,053	54,215	54,718	76,932	87,376
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Crude	700	16,535	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Resublimed	65,900	65,036	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
France—						
Resublimed	7,000	15,400	16,400	24,300	13,000	24,000
Germany (Federal) ..	43,700	38,140	25,353	100,972	14,000	17,000
Netherlands—						
Crude	7,000	2,205	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Resublimed	4,000	4,409	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Chile	5,021,741	3,875,649	4,392,558	3,860,000	5,380,600	<i>n.a.</i>
Japan—						
Crude	} 1,925,766	2,486,664	2,930,236	3,077,390	5,215,078	4,680,404
Resublimed						

IMPORTS OF IODINE

Lb. avdp

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom ..	1,167,163	813,775	939,502	1,174,108	1,242,474	1,428,663
Canada—						
Crude	150,558	240,292	178,800	228,900	213,400	371,900
India (a)	224,673	143,029	220,498	349,413	297,370	216,326
Australia (b)—						
Crude	6,700	4,900	200	7,728	19,600	—
New Zealand	<i>n.a.</i>	(b) 1,350	(b) 1,455	(b) 3,593	(b) 1,653	(b) 1,752
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Crude	179,700	257,941	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Resublimed	700	1,323	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Denmark	7,000	2,205	4,409	22,000	22,000	8,800
France—						
Crude	313,000	354,944	630,522	881,849	1,113,000	798,073
Germany (Federal) ..	701,500	690,047	644,411	953,279	915,400	1,026,100
Greece	7,663	4,850	9,004	7,822	7,562	5,450
Italy—						
Crude	62,563	79,587	284,760	91,500	303,100	312,836
Resublimed	45,768	64,816	3,047	900	10,582	3,527
Netherlands	13,440	15,432	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Portugal—						
Crude	4,900	4,630	—	9,000	8,818	4,409
Resublimed	1,500	3,968	2,866	2,000	5,732	882
Spain—						
Crude	41,910	31,526	52,933	37,479	110,231	50,696
Resublimed	1,764	5,320	79	59	919	64
Sweden	7,000	11,000	4,000	9,000	7,000	7,000
Yugoslavia	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	12,352	24,978	10,538
Morocco—						
Resublimed	648	712	847	53	359	752
Costa Rica	791	351	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	—
Mexico	21,905	25,554	81,847	45,746	78,207	97,305
United States—						
Crude	3,025,711	3,336,000	2,592,000	2,847,133	7,133,000	3,459,000
Resublimed	9,050	3,000	3,000	2,000	<i>n.a.</i>	<i>n.a.</i>
Argentina—						
Crude	48,596	33,116	113,016	90,423	52,408	37,055
Resublimed	12,337	14,826	12,547	15,503	66	—
Brazil	35,784	23,343	24,959	36,100	49,364	41,692
Colombia	4,786	6,788	4,676	2,599	5,031	4,274
Peru—						
Crude	1,387	115	1,618	1,570	1,124	<i>n.a.</i>
Resublimed	1,204	1,556	2,928	2,100	2,211	<i>n.a.</i>
Venezuela	6,065	9,841	7,328	11,391	6,515	7,961
Turkey	6,206	6,640	5,844	9,504	10,926	10,556

(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				
	1962	1963	1964	1965	1966	1967	1962	1963	1964	1965	1966	1967			
COMMONWEALTH COUNTRIES															
United Kingdom (a)	15,277,100	14,912,000	16,325,700	15,414,700	13,657,900	12,739,100	4,125,000	4,026,000	4,408,000	4,162,000	3,688,000	3,567,000			
Rhodesia	608,845	645,025	810,981	n.a.	n.a.	n.a.	359,000	381,000	478,000	n.a.	n.a.	n.a.			
Sierra Leone (f)	1,983,025	1,953,651	1,980,535	2,296,983	2,182,792	2,224,467	1,281,000	1,260,000	1,276,000	1,475,000	1,410,000	1,446,000			
Swaziland	—	—	59,242	1,003,848	1,566,091	1,715,985	—	—	37,000	632,000	987,000	1,032,000			
Canada	24,428,282	26,913,972	34,219,484	35,677,621	36,331,003	36,878,054	13,436,000	14,803,000	18,821,000	19,623,000	19,982,000	20,283,000			
Hong Kong	111,537	111,865	114,784	131,955	134,785	141,324	62,000	63,000	64,000	74,000	75,000	79,000			
India	13,128,006	14,758,570	15,069,580	23,363,000	19,620,000	18,648,743	8,010,000	9,000,000	8,440,000	11,970,000	11,350,000	11,350,000			
Goa	6,033,000	5,422,000	5,956,000	6,480,000	6,480,000	6,645,000	3,499,000	3,145,000	3,454,000	3,454,000	3,760,000	3,854,000			
Malaysia (West)	6,507,302	7,264,543	6,465,695	6,872,711	5,762,440	5,349,780	3,644,000	4,068,000	3,621,000	3,849,000	3,227,000	2,996,000			
Pakistan (g)	4,843,494	5,514,562	5,668,518	6,695,269	11,552,985	18,535,985	3,119,000	3,558,000	3,655,000	4,297,000	7,385,000	11,931,000			
Fiji	1,220	1,062	—	—	—	—	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.			
New Zealand (b)	4,501	3,074	2,550	2,236	2,624	2,575	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.			
TOTAL	72,928,000	77,500,000	86,677,000	92,000,000	98,000,000	104,000,000									
OTHER COUNTRIES															
Albania	420,000	255,000	345,000	(h) 360,000	(h) 360,000	(h) 360,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.			
Austria	3,652,152	3,675,420	3,506,826	3,480,400	3,420,460	3,419,400	1,745,000	1,610,000	1,110,000	1,093,000	1,081,000	1,082,000			
Belgium	79,100	94,000	60,000	70,000	72,000	67,000	38,000	35,000	21,000	32,000	30,000	30,000			
Bulgaria	625,000	645,000	710,000	1,776,000	2,567,000	2,571,000	390,000	400,000	446,000	1,106,000	1,603,000	1,570,000			
Czechoslovakia	3,422,000	3,357,000	2,801,000	2,407,000	2,202,000	1,884,000	1,050,000	1,010,000	849,000	726,000	660,000	570,000			
Finland (c)	259,034	357,942	469,000	670,000	646,000	633,000	194,000	235,000	305,000	446,000	420,000	412,000			
France	65,254,080	56,977,556	59,975,576	58,591,587	54,550,015	48,445,000	19,569,000	17,124,000	18,148,000	17,812,000	16,843,000	15,232,000			
Germany	11,250,510	8,454,152	8,559,334	7,827,626	7,083,399	6,679,268	3,838,000	3,074,000	2,752,000	2,512,000	2,265,000	2,152,000			
Federal Republic (e)	1,016,000	1,635,000	1,608,000	1,604,000	1,694,000	1,693,000	465,000	401,000	482,000	481,000	508,000	494,000			
Eastern	208,738	724,479	724,479	6,000	29,440	16,531	107,000	145,000	185,000	3,000	150,000	8,000			
Greece	1,152,671	1,007,937	762,460	750,000	729,000	705,000	573,000	523,000	185,000	184,000	184,000	172,000			
Hungary	6,404,404	6,879,912	6,574,381	6,215,756	6,424,516	6,204,392	1,741,000	1,868,000	1,832,000	2,000,000	3,804,000	3,750,000			
Italy	1,906,913	1,966,912	2,069,812	2,411,539	2,411,539	3,524,352	1,218,000	1,268,000	1,348,000	1,572,000	1,563,000	1,689,000			
Luxemburg	2,598,000	2,968,000	2,638,000	2,816,000	3,005,000	3,028,000	820,000	870,000	900,000	960,000	1,020,000	1,029,000			
Norway	258,000	258,000	212,000	208,000	189,000	194,000	129,000	120,000	106,000	102,000	102,000	97,000			
Poland	1,714,107	2,250,000	1,901,000	2,440,000	2,639,000	2,753,000	1,010,000	850,000	889,000	1,190,000	1,190,000	1,246,000			
Portugal	5,669,812	5,111,433	5,026,800	5,601,478	5,118,000	5,118,000	2,812,000	2,518,000	2,890,000	2,721,000	2,500,000	2,500,000			
Roumania	22,170,364	23,263,601	26,198,490	28,890,053	27,545,300	27,889,500	13,509,000	14,208,000	16,036,000	17,760,000	17,189,000	17,156,000			
Spain	103,000	94,000	90,000	111,000	111,000	4,000	40,000	40,000	40,000	40,000	25,000	2,000			
Sweden	126,079,000	135,304,000	143,285,000	151,000,000	157,600,000	165,594,000	75,600,000	81,200,000	86,000,000	91,000,000	95,000,000	99,000,000			
Switzerland (d)	—	—	—	—	—	—	—	—	—	—	—	—			
U.S.S.R.	—	—	—	—	—	—	—	—	—	—	—	—			

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

PRODUCTION OF IRON ORE (cont.)

Long tons

Producing Country	ORE										Estimated Iron Content		
	1962	1963	1964	1965	1966	1967	1962	1963	1964	1965	1966	1967	
OTHER COUNTRIES (cont.)													
Yugoslavia	2,155,000	2,261,000	2,271,000	2,464,000	2,454,000	2,540,000	970,000	1,000,000	1,000,000	1,000,000	1,100,000	1,100,000	
Algeria	2,029,000	1,945,000	2,696,000	3,083,000	1,457,000	f 1,970,000	1,092,000	1,050,000	1,460,000	1,570,000	790,000	1,060,000	
Angola	741,710	626,620	885,184	802,321	778,062	f 1,196,072	480,000	410,000	580,000	520,000	510,000	738,000	
Egypt	453,711	481,176	440,150	499,002	433,083	(f) 490,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Guinea	689,000	652,000	1894,000	743,000	6,200,000	345,000	345,000	330,000	450,000	370,000	305,000	n.a.	
Liberia (b)	3,741,059	6,355,687	12,029,388	15,086,547	17,163,135	17,163,135	2,544,000	4,322,000	8,180,000	10,259,000	11,077,000	11,671,000	
Mauritania	984,000	1,651,000	5,000,000	6,185,000	7,044,000	6,933,000	6,646,000	1,083,000	3,280,000	4,660,000	4,620,000	4,548,000	
Morocco	1,130,709	1,018,249	873,611	936,007	1,000,661	870,447	664,000	598,000	518,000	558,000	597,000	519,000	
South Africa (h)	4,539,476	4,910,589	5,599,642	6,616,761	7,568,104	7,614,987	2,720,000	2,950,000	3,360,000	3,970,000	4,540,000	4,570,000	
South West Africa	14,792	300	9,331	32,316	37,312	(a) 50,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Sudan	4,400	300	n.a.	32,316	37,312	50,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Tunisia	749,000	851,000	925,000	1,099,000	1,267,000	903,000	400,000	460,000	500,000	590,000	680,000	506,000	
Guatemala (f)	5,000	6,000	7,000	8,000	8,000	9,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Mexico	2,220,000	2,290,000	2,290,000	2,610,000	2,460,000	2,653,243	1,332,243	1,374,820	1,370,475	1,507,581	1,474,254	1,593,000	
United States (c)	71,959,000	73,737,000	84,864,000	87,472,000	90,151,000	84,179,000	39,000,000	41,000,000	48,000,000	50,000,000	52,000,000	48,000,000	
Argentina	119,153	92,916	93,008	111,109	153,488	220,650	60,000	46,000	47,000	56,000	68,000	97,000	
Brazil	10,567,268	11,041,748	16,694,380	17,873,111	22,887,115	23,129,000	7,400,000	7,730,000	11,690,000	12,510,000	16,020,000	16,200,000	
Chile	7,962,415	8,375,886	9,731,793	11,953,264	12,018,781	10,613,141	5,078,125	5,394,219	6,260,747	7,698,000	7,740,000	6,792,000	
Colombia	670,000	684,000	700,000	694,960	649,424	842,136	3,391,000	4,897,000	5,204,000	5,914,000	4,440,000	4,300,000	
Peru	5,854,981	8,267,202	8,593,913	10,134,020	7,664,000	7,538,000	3,391,000	4,897,000	5,204,000	5,914,000	4,440,000	4,300,000	
Uruguay	1,000	1,000	2,000	(f) 2,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Venezuela	13,056,364	11,561,612	15,397,909	17,371,381	17,559,212	16,853,101	8,356,000	7,599,000	9,855,000	11,118,000	11,238,000	10,786,000	
Burma (e)	9,017	4,192	n.a.	5,000	5,000	n.a.	5,000	2,000	n.a.	3,000	n.a.	n.a.	
China (e)	35,000,000	50,000,000	50,000,000	50,000,000	50,000,000	35,000,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Iran (e)	10,000	21,000	20,000	59,000	(f) 50,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Japan (f)	2,545,935	2,386,915	2,516,975	2,468,000	2,357,000	2,184,000	1,419,000	1,342,000	1,409,000	1,400,000	1,300,000	1,200,000	
Korea (South)	463,300	492,800	474,000	723,500	777,200	687,200	236,000	251,000	344,000	369,000	396,000	350,000	
Korea (North)	3,287,000	3,799,000	4,700,000	5,800,000	f 6,000,000	6,400,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Philippines Republic	1,365,054	1,362,835	1,345,369	1,435,070	1,485,295	1,432,737	792,000	790,000	780,000	820,000	840,000	831,000	
Thailand	44,592	15,493	1,185,000	1,135,070	686,776	540,000	28,000	10,000	120,000	460,000	430,000	350,000	
Turkey	800,000	734,800	940,248	1,508,656	1,508,656	1,499,000	450,000	410,000	540,000	840,000	890,000	840,000	
New Caledonia	298,300	294,200	302,500	274,800	216,800	201,000	164,000	164,000	168,000	151,000	121,000	110,000	
TOTAL	429,000,000	451,000,000	498,000,000	527,000,000	534,000,000	515,000,000	515,000,000	515,000,000	515,000,000	515,000,000	515,000,000	515,000,000	
WORLD'S TOTAL	502,000,000	528,000,000	585,000,000	619,000,000	632,000,000	619,000,000	619,000,000	619,000,000	619,000,000	619,000,000	619,000,000	619,000,000	

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

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

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

1962—419,738; 1963—1,274,743; 1964—1,402,809; 1965—1,369,000; 1966—1,239,000; 1967—1,110,000.

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

(f) United States Bureau of Mines estimate.

(g) Years ended March 20 following the stated.

(h) Including by-product magnetite as follows (long tons): 1962—276,547; 1963—521,261; 1964—845,451; 1965—892,513; 1966—878,220; 1967—860,000.

DETAILS OF PRODUCTION OF IRON ORE IN CERTAIN COUNTRIES

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Hematite	378,200	393,900	427,100	408,200	397,900	399,500
Jurassic ironstones—						
Lower lias	5,516,000	5,268,900	5,440,900	5,065,300	4,754,300	4,732,100
Middle lias	1,507,700	1,392,000	1,590,000	1,456,500	1,061,000	537,600
Inferior oolite	7,875,200	7,857,200	8,867,700	8,484,700	7,444,700	7,069,100
Sierra Leone (c)—						
Lump	—	—	—	—	—	—
Concentrates	1,875,822	1,814,687	1,827,018	2,054,882	2,076,522	2,168,160
Fines	106,696	138,189	153,298	241,930	105,131	55,483
Ferromax	507	775	219	171	1,139	824
OTHER COUNTRIES						
France—						
Phosphoric	61,436,403	53,518,180	56,547,534	55,238,426	50,807,451	45,316,000
Medium phosphoric	3,624,684	3,378,933	3,346,263	3,274,033	3,624,059	3,087,000
Non-phosphoric	192,993	80,443	81,779	79,128	58,505	41,000
Luxemburg—						
Siliceous iron ore	3,081,546	3,343,640	3,419,260	3,001,948	2,965,075	2,862,828
Calcareous iron ore	2,883,330	3,103,315	2,787,177	2,901,279	3,151,375	3,067,740
Ferruginous limestone	439,528	432,957	367,744	312,479	308,069	273,780
Portugal—						
Hematite	69,000	58,000	42,000	52,000	51,000	55,000
Magnetite	160,000	162,000	128,000	110,000	86,000	86,000
Manganiferous iron ore	29,000	38,000	42,000	46,000	52,000	53,000
Sweden—						
Manganiferous iron ore	138,000	181,000	133,000	133,000	106,000	n.a.
Other iron ore	22,032,000	23,083,000	26,066,000	28,757,000	27,439,000	n.a.
By phosphorus content (a)						
Under 0.006%	1,491,971	1,454,568	1,358,059	1,404,705	1,207,245	n.a.
0.006% to under 0.04%	2,302,191	2,647,784	3,306,509	3,622,682	3,686,296	n.a.
0.04% to under 0.1%	1,607,100	1,244,866	1,426,243	2,371,340	3,839,754	n.a.
0.1% to under 0.7%	6,020,284	6,313,641	6,674,363	7,946,280	6,457,254	n.a.
0.7% to under 1%	1,395,855	1,482,344	2,045,676	2,447,422	2,423,490	n.a.
1% and over	9,352,963	10,120,398	11,387,640	11,097,624	9,931,267	n.a.
United States—						
Ore containing less than 5% Mn—						
Hematite (b)	46,863,000	46,509,000	47,603,000	47,043,000	46,602,000	40,991,000
Magnetite (b)	20,788,000	23,891,000	34,395,000	36,927,000	39,841,000	40,656,000
Limonite	3,599,000	2,443,000	1,806,000	2,664,000	2,913,000	} 2,532,000
Pyrite cinder and sinter	579,000	757,000	1,032,000	805,000	791,000	
Ore containing 5 to under 10% Mn	129,979	136,569	27,725	32,935	4,035	

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

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

(c) Exports.

EXPORTS OF IRON ORE
(including Manganiferous Iron Ore)

Long tons

Exporting Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom ..	364	482	403	273	217	213
Rhodesia (d)	118,557	207,239	282,045	316,270	<i>n.a.</i>	<i>n.a.</i>
Sierra Leone	1,983,025	1,953,651	1,980,535	2,296,983	2,182,792	2,224,667
Canada	21,645,758	23,854,973	30,473,700	30,799,252	30,693,745	31,406,529
Hong Kong	114,652	119,826	129,569	142,948	138,566	167,015
India (b)	3,737,436	} 9,712,220	10,407,378	12,075,253	13,191,038	13,516,997
Goa	5,195,255					
Malaysia (West) ..	6,441,107	6,581,755	6,316,970	6,634,197	5,680,684	5,245,852
Australia (e)—						
Iron ore	110	113	12,201	96,651	337,856	f 5,468,386
Burnt pyrites ..	171,661	118,337	106,715	73,912	70,070	—
Fiji	7,339	1,227	—	—	—	—
Irish Republic—						
Burnt pyrites ..	12,576	1,639	6,067	1,610	1,259	—
OTHER COUNTRIES						
Albania—						
Iron ore	410,700	78,900	454,600	497,000	<i>n.a.</i>	<i>n.a.</i>
Austria	30	39	63	39	120	389
Belgium-Luxemburg						
E.U.—						
Iron ore	232,968	271,060	222,103	66,334	22,083	61,126
Burnt pyrites ..	199,509	210,810	184,691	195,922	206,658	226,790
Bulgaria	27,511	14,096	10,651	10,441	—	<i>n.a.</i>
Denmark—						
Bog ore (a)	67,689	50,169	56,862	35,530	25,756	27,171
Burnt pyrites ..	93,310	84,442	101,999	93,503	86,790	81,975
Finland—						
Iron ore	171,626	85,674	167,236	17,019	3,297	12,008
Burnt pyrites ..	169,218	163,855	122,807	105,868	68,902	5,530
France—						
Iron ore	25,277,522	20,869,283	21,741,834	20,419,735	17,907,510	17,260,172
Burnt pyrites ..	355,744	338,289	286,846	238,875	298,446	223,365
Germany (Federal)—						
Iron ore	277,833	281,577	285,072	274,323	295,609	326,973
Burnt pyrites ..	4,436	2,566	14,259	37,372	60,747	50,606
Greece—						
Iron ore	243,811	50,089	<i>n.a.</i>	4,409	<i>n.a.</i>	—
Burnt pyrites ..	24,357	42,488	<i>n.a.</i>	24,641	<i>n.a.</i>	57,481
Italy—						
Iron ore	238	43	6,427	36,437	19,043	19
Burnt pyrites ..	603,338	645,669	657,388	631,391	740,234	706,466
Netherlands—						
Iron ore	11,070	6,652	3,070	6,587	3,837	3,277
Burnt iron pyrites	120,076	125,148	244,879	254,159	187,327	88,911
Norway—						
Iron ore	1,248,534	1,203,570	1,527,988	1,351,992	1,414,106	2,345,625
Burnt pyrites ..	78,067	63,374	74,896	69,499	66,781	120,555
Portugal—						
Iron ore	97,937	71,771	36,277	2,731	—	—
Burnt pyrites ..	28,909	15,403	22,775	3,986	335	—
Spain (c)	1,873,512	1,904,347	2,414,014	1,854,492	957,471	1,516,294
Sweden—						
Iron ore	19,090,000	19,936,000	23,973,000	24,075,000	23,935,000	22,692,000
Burnt pyrites ..	197,000	227,000	341,000	417,000	254,000	294,000
Switzerland (c) ..	74,253	88,509	62,634	95,304	31,152	14,338

- (a) Used for purposes other than iron making. (e) Years ended June 30 of that stated.
 (b) Years ended March 31 following that stated. (f) Including iron ore pellets.
 (c) Including burnt pyrites.
 (d) Figures for years 1962 and 1963 relate to Rhodesia and Nyasaland.

EXPORTS OF IRON ORE (cont.)

Long tons

Exporting Country	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
U.S.S.R.—						
Iron ore	18,636,000	20,460,700	22,243,000	23,757,000	25,706,000	24,167,200
Burnt pyrites	768,665	999,954	927,122	1,213,000	1,478,000	1,586,000
Yugoslavia—						
Iron ore	100,334	151,547	198,169	97,231	<i>n.a.</i>	89,714
Burnt pyrites	—	—	1,037	2,358	<i>n.a.</i>	516
Algeria—						
Iron ore	2,097,344	1,928,060	2,783,645	2,945,431	1,574,730	<i>n.a.</i>
Burnt pyrites	34,144	32,381	31,642	35,313	29,944	<i>n.a.</i>
Angola	438,944	645,183	1,109,740	682,450	616,893	768,290
Guinea	685,000	551,000	<i>n.a.</i>	<i>n.a.</i>	333,000	<i>n.a.</i>
Liberia	3,741,059	6,355,687	12,029,388	15,086,547	16,290,151	17,163,135
Mauritania	<i>n.a.</i>	128,000	4,900,000	5,871,000	7,044,260	7,330,200
Morocco—						
Iron ore	1,130,303	1,061,784	977,997	942,141	777,301	901,297
Burnt pyrites	23,241	19,547	25,738	13,860	14,369	5,049
South Africa	732,216	679,779	1,116,077	1,220,301	1,287,963	2,350,630
Sudan	—	—	—	34,023	46,941	8,612
Tunisia	702,301	755,771	817,634	895,842	862,492	762,642
Dominican Republic	—	—	5,567	—	<i>n.a.</i>	<i>n.a.</i>
Mexico	144,733	1,095	21,148	9,757	118	77
United States	5,897,667	6,812,793	6,963,375	7,084,682	7,778,916	5,943,198
Brazil	7,529,034	8,137,174	9,575,964	12,530,156	12,706,562	14,053,619
Chile	7,131,117	6,979,980	8,969,654	10,555,000	10,559,486	<i>n.a.</i>
Peru	5,067,878	5,657,870	5,122,981	6,274,264	6,207,798	5,230,481
Venezuela	13,075,372	12,124,597	14,658,189	16,737,405	16,767,674	16,226,490
Iran (a)	4,823	1,968	5,234	—	—	—
Korea (South)	358,245	540,966	577,629	697,675	631,229	657,835
Philippine Republic—						
Iron ore	1,313,820	1,442,499	1,324,083	1,367,091	1,489,319	1,360,616
Burnt pyrites	11,220	8,169	3,740	8,651	<i>n.a.</i>	<i>n.a.</i>
Turkey	168,930	11,909	—	—	—	99,523
New Caledonia	289,779	289,502	308,397	271,501	210,621	195,106

(a) Years ended March 20 following that stated.

IMPORTS OF IRON ORE
(including Manganiferous Iron Ore)

Long tons

Importing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Iron ore	} 12,897,165 ^x	{ 13,940,164	18,000,505	18,299,984	15,542,087	15,521,447
Burnt pyrites			383,248	597,774	556,972	400,501	553,417
Kenya	2,781	1,355	2,511	5,598	6,642	5,500
Canada	4,604,779	5,325,713	5,232,404	4,763,029	4,323,121	2,400,669
Hong Kong	4,270	12,250	1,545	9,838	12,100	1,984
India (d)	270	100	150	—	116	—
Singapore	6	40	—	—	16,081	—
Australia (a)	273,481	293,467	274,241	277,496	283,761	204,056
Irish Republic	15	202	267	1,242	713	555
OTHER COUNTRIES						
Austria—						
Iron ore	1,028,169	972,994	1,089,893	1,101,776	1,156,800	889,978
Burnt pyrites	371,504	356,078	368,068	355,247	340,519	329,489
Belgium-Luxemburg						
E.U.—						
Iron ore	20,810,570	19,409,036	22,535,724	23,369,882	21,068,540	21,533,065
Burnt pyrites	58,059	43,483	113,197	151,382	142,590	125,126
Czechoslovakia	8,188,000	9,186,000	9,162,000	9,402,000	9,189,000	n.a.
Denmark	1,422	(b) 2,053	(b) 2,048	(b) 7,950	(b) 12,000	(b) 7,517
Finland	441,585	377,101	505,459	953,519	824,090	627,820
France—						
Iron ore	1,866,118	3,423,086	3,545,327	3,846,865	4,178,100	4,766,596
Burnt pyrites	18,668	26,865	38,921	75,536	57,794	44,873
Germany (Federal)—						
Iron ore	28,609,917	26,573,630	34,470,471	34,911,085	30,774,166	34,357,416
Burnt pyrites	1,834,503	1,885,295	1,918,140	1,858,488	1,715,370	1,587,537
Germany (East) (c)	1,240,500	1,312,400	1,382,500	1,429,500	1,433,200	1,524,500
Greece	n.a.	119,215	228,793	456,115	398,815	175,245
Hungary	2,207,495	2,314,180	2,619,766	2,442,000	2,653,000	2,763,652
Italy	4,354,281	5,144,832	4,959,134	7,886,661	8,032,473	9,769,503
Netherlands	2,280,542	2,501,403	3,011,856	3,519,462	3,396,862	3,583,135
Norway	21,163	10,870	19,635	17,105	8,522	7,606
Poland	7,976,000	8,666,900	8,943,200	9,127,000	9,280,000	9,897,000
Roumania	1,897,300	2,201,200	2,268,700	2,581,800	2,809,000	n.a.
Spain	248,866	91,701	92,823	347,287	561,184	588,547
Sweden—						
Iron Ore	3,000	2,000	72,000	169,000	211,000	3,000
Burnt pyrites	19,684	15,000	10,000	20,000	6,000	3,000
Switzerland (b)	1,309	3,669	1,958	2,562	7,126	21,149
Yugoslavia	347,565	424,751	375,248	358,162	386,898	126,182
Morocco	—	806	24,605	442	984	443
United States—						
Iron ore	33,431,077	33,262,892	42,408,092	45,103,418	} 46,259,167	} 44,627,059
Burnt pyrites	4,248	3,263	8,635	1,563		
Argentina	506,912	745,428	1,003,020	1,032,519	695,738	866,155
Formosa	10,287	43,020	76,277	30,612	104,957	n.a.
Japan—						
Iron ore	21,947,378	25,661,157	30,678,093	38,370,349	45,361,775	55,790,332
Burnt pyrites	143,461	191,905	64,820	31,538	5,149	9,389

(a) Years ended June 30 of that stated.

(d) Years ended March 31 following that stated.

(b) Including burnt pyrites.

(c) Fe content.

PRODUCTION OF PIG-IRON AND FERRO-ALLOYS*

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom	13,692,100	14,591,400	17,273,600	17,459,900	15,709,700	15,153,000
Rhodesia	237,600	232,262	312,706	246,000	256,000	256,000
Canada	4,838,000	5,433,000	5,994,000	6,470,038	6,607,515	6,346,755
India	5,830,000	6,630,000	6,489,000	7,030,000	7,085,026	6,957,588
Australia (e)	3,434,336	3,629,771	3,930,107	4,183,678	4,666,885	4,977,334
TOTAL	28,032,000	30,520,000	34,000,000	35,390,000	34,370,000	33,691,000
OTHER COUNTRIES						
Austria	2,088,000	2,076,600	2,174,200	2,170,400	2,164,700	2,111,400
Belgium	6,633,876	6,789,554	7,919,500	8,233,933	8,099,687	8,761,394
Bulgaria	219,459	261,135	450,000	684,000	855,000	1,014,000
Czechoslovakia	5,095,500	5,171,000	5,627,000	5,776,000	6,170,000	6,714,000
Finland	325,771	326,692	583,000	921,000	919,000	1,021,600
France (a)	13,738,471	14,080,508	15,612,174	15,520,937	15,343,969	15,461,000
Germany—						
Federal Republic	23,977,000	22,652,000	26,882,000	26,706,000	25,158,000	26,933,000
Eastern	2,042,400	2,115,900	2,224,200	2,301,100	2,409,000	2,485,000
Hungary	1,378,278	1,379,266	1,476,414	1,564,000	1,614,000	1,631,000
Italy	3,619,510	3,806,758	3,567,441	5,539,551	6,315,450	7,346,375
Luxemburg	3,540,045	3,530,158	4,124,824	4,079,129	3,899,902	3,899,996
Netherlands	1,546,500	1,681,400	1,916,200	2,327,000	2,173,900	2,545,000
Norway	711,716	737,028	879,469	1,072,950	1,121,240	1,212,481
Poland	5,227,000	5,310,000	5,554,000	5,669,000	5,763,000	6,477,000
Portugal	221,455	236,453	264,217	271,404	244,880	280,836
Roumania	1,486,942	1,679,000	1,894,000	1,987,000	2,163,000	2,417,000
Spain	2,120,045	1,952,717	1,938,618	2,369,210	2,151,933	2,637,000
Sweden	1,932,333	1,993,065	2,324,201	2,420,780	2,367,217	2,535,000
Switzerland	50,000	41,000	30,000	25,000	25,000	24,000
U.S.S.R.	54,392,000	57,764,000	61,392,000	65,200,000	69,154,000	73,630,000
Yugoslavia	1,086,000	1,043,450	1,056,616	1,156,395	1,198,072	1,236,000
Egypt	173,000	201,473	189,062	170,000	(d) 170,000	n.a.
South Africa	2,361,100	2,389,200	2,853,700	3,595,600	3,740,000	3,718,900
Mexico	814,001	845,468	954,000	973,000	1,162,569	1,318,669
United States	60,352,980	65,817,167	78,511,112	81,176,821	83,931,600	79,885,000
Argentina	390,200	415,800	580,000	652,700	510,400	600,000
Brazil	2,086,070	2,474,955	2,625,321	2,364,795	2,916,917	2,950,000
Chile (b)	377,000	411,000	430,000	304,000	426,000	498,000
Colombia	143,000	199,000	201,728	200,727	166,000	203,352
Peru (b)	38,000	29,000	27,000	20,000	28,000	29,000
Venezuela	121,000	297,000	318,000	329,000	345,000	416,000
China (d)	15,000,000	17,000,000	18,000,000	19,000,000	20,000,000	14,000,000
Formosa (f)	62,380	52,763	60,860	70,900	69,712	83,472
Japan	18,197,975	20,154,399	24,100,000	27,700,000	32,200,000	40,400,000
Korea (South)	—	5,340	1,314	18,092	20,270	22,039
Korea (North)	1,219,000	1,165,000	1,348,000	(d)1,462,000	(d)1,500,000	d 1,722,000
Thailand	5,000	6,000	5,000	5,000	2,000	6,000
Turkey	288,000	392,000	400,000	499,000	816,000	842,000
TOTAL	233,000,000	246,000,000	278,000,000	295,000,000	307,000,000	317,000,000
WORLD'S TOTAL	261,000,000	276,000,000	312,000,000	330,000,000	341,000,000	351,000,000

* For details see page 156.

(a) Excluding electric furnace and aluminio-thermic ferro-alloys. For these see page 157.

(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 156.

(f) Including recovery from scrap.

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

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Hematite	875,700	816,800	956,800	877,300	677,900	641,500
Basic	11,568,300	12,644,400	15,069,300	15,377,100	13,945,100	13,681,100
Foundry	1,054,000	1,005,800	1,079,100	1,012,300	926,700	678,700
Forge						
Direct castings						
Blast furnace ferro-alloys—						
Spiegeleisen	41,100	23,000	16,900	21,200	9,100	151,700
Ferro-manganese	153,000	101,400	151,500	172,000	150,900	
Canada—						
Basic	4,072,565	4,549,179	5,060,871	5,634,602	5,683,266	5,509,085
Foundry	227,506	279,153	389,620	427,926	417,529	475,142
Malleable	411,315	469,230	398,469	245,401	338,975	212,535
Ferro-alloys (a)	127,000	135,000	145,000	162,109	167,745	149,993
India—						
Basic	4,240,000	4,750,000	4,640,000	6,860,000	6,930,000	6,802,000
Foundry	1,100,000	1,364,000	1,297,000			
Other pig-iron	319,000	365,000	552,000			
Direct castings	48,000	20,000	123,749	146,973	135,311	133,684
Ferro-manganese	110,000	115,711				
Ferro-silicon	12,000	14,982	17,245	20,215	19,088	21,836
Ferro-chrome	—	—	319	—	627	68
Australia—						
Pig-iron	3,434,336	3,629,771	3,930,107	4,183,678	4,666,885	4,977,334
Ferro-manganese (b)	17,000	34,000	33,729	40,254	44,729	56,168
Ferro-silicon (b)	7,438	8,302	5,015	4,404	4,225	8,807
Ferro-nickel (b)	—	—	—	—	—	—
Silico-manganese (b)	5,039	4,322	13,510	15,748	10,716	18,940
Ferro-chrome (b)	571	1,094	2,441	1,337	1,753	2,182
Chrome silicide (b)	—	—	238	—	—	—
Ferro-silicon zirconium	—	—	—	—	180	n.a.
OTHER COUNTRIES						
Austria—						
Basic	2,061,747	2,037,632	2,139,502	2,111,378	2,131,090	2,071,705
Hematite	16,057	35,102	29,575	53,954	28,847	34,024
Other	6,417	—	—	—	—	—
Electric furnace ferro-alloys						
Belgium—	3,800	3,900	5,100	5,100	4,800	5,700
Basic	6,521,320	6,695,583	7,816,863	8,122,069	7,977,674	8,655,058
Forge	4,729	481	1,021	—	—	—
Foundry	92,703	76,155	89,704	98,590	105,223	93,134
Ferro-alloys	15,124	17,335	11,912	13,274	16,790	13,202
Czechoslovakia—						
Basic	4,522,000	4,550,000	4,944,000	5,048,000	5,471,000	6,714,000
Foundry	498,000	544,000	591,000	636,000	651,000	
Ferro-alloys	75,000	77,000	92,000	92,000	48,000	
France—						
Phosphoric (over 1.4% P)—						
Basic	11,946,528	11,872,295	12,793,864	12,357,070	12,048,514	11,894,000
Foundry	146,726	146,518	156,782	141,593	82,489	107,000
Semi-phosphoric (from 0.5% to 1.4% P)—						
Foundry	294,265	293,879	288,060	267,647	195,494	96,000
Open hearth, basic	—	(c)	(c)	(c)	(c)	(c)
Hematite (less than 0.5% P)—						
Foundry	366,023	436,753	443,040	500,599	542,941	615,000
Open hearth and Bessemer	265,488	769,698	1,279,228	1,653,051	1,951,609	2,322,000

(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	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
France <i>(cont.)</i> —						
Blast furnace ferro-alloys—						
Spiegeleisen	135,723	110,153	90,725	103,703	52,252	56,000
Ferro-manganese	267,393	252,510	315,021	321,945	296,762	258,000
Other pig-iron	316,325	198,702	245,454	175,329	173,908	113,000
Electric furnace and alumino-thermic ferro-alloys—						
Ferro-silicon (50% Si)	102,095	86,649	101,720	117,550	119,723	112,569
Silico-spiegeleisen and silico-manganese	12,279	18,442	11,505	14,285	12,855	15,059
Silico-aluminium and silico-manganese-aluminium	1,506	938	844	1,052	<i>n.a.</i>	<i>n.a.</i>
Ferro-manganese	28,080	28,500	28,864	29,845	<i>n.a.</i>	<i>n.a.</i>
Ferro-chrome	56,019	53,722	61,480	70,356	} 83,806	} 93,586
Silico-chrome	2,337	3,370	4,097	3,907		
Ferro-tungsten (<i>W content</i>)	898	657	458	559	} (a) 766	} <i>n.a.</i>
Ferro-molybdenum (<i>Mo content</i>)	1,593	1,772	1,786	1,428		
Ferro-vanadium (<i>V content</i>)	275	269	306	392	<i>n.a.</i>	<i>n.a.</i>
Titanium alloys	2,734	3,424	3,915	4,876	<i>n.a.</i>	<i>n.a.</i>
Silico-zirconium	266	338	506	1,277	<i>n.a.</i>	<i>n.a.</i>
Ferro-silico-magnesium and silico-magnesium	1,673	2,662	2,227	3,268	<i>n.a.</i>	<i>n.a.</i>
Ferro-niobium (<i>Nb + Ta content</i>)	17	13	70	47	<i>n.a.</i>	<i>n.a.</i>
Germany (Federal)—						
Hematite and malleable						
Basic	14,941,000	13,858,000	15,282,000	14,681,000	13,493,000	13,272,000
Foundry	657,000	593,000	493,000	446,000	299,000	244,000
Stahleisen	6,777,000	6,599,000	9,224,000	9,614,000	9,545,000	11,798,000
Spiegeleisen (blast-furnace)	} 271,000	} 286,000	} 283,000	} 276,000	} 291,000	} 250,000
Ferro-manganese (blast furnace)						
Siegerland special	} 271,000	} 253,000	} 237,000	} 276,000	} 264,000	} 370,000
Other pig-iron						
Ferro-silicon (blast-furnace)	} 271,000	} 253,000	} 237,000	} 276,000	} 264,000	} 370,000
Electric furnace and alumino-thermic ferro-alloys						
Foundry	110,056	103,635	129,371	141,721	145,506	129,648
Germany (East)—						
Foundry	530,000	524,700	541,700	596,200	594,100	602,200
Open hearth	1,058,800	1,140,300	1,225,200	1,238,700	1,342,300	1,408,100
Basic Bessemer	432,600	430,100	437,400	449,300	455,500	464,200
Spiegeleisen	20,500	20,300	19,100	16,600	17,100	10,600
Other	500	500	800	300	—	—
Hungary—						
Basic	1,245,516	1,264,456	1,382,027	1,489,000	1,559,000	1,614,000
Foundry	110,357	99,149	87,698	64,000	48,000	9,000
Spiegeleisen	3,820	2,535	917	4,000	—	2,000
Ferro-manganese	12,704	6,952	161	1,536	2,223	7,558
Ferro-silicon	5,881	6,174	5,611	5,542	5,035	6,544
Italy—						
Pig-iron	3,499,821	3,681,586	3,442,542	5,403,225	6,158,206	7,177,487
Spiegeleisen	4,333	5,481	1,330	2,829	3,420	4,120
Ferro-manganese	26,091	28,657	24,564	18,792	21,847	25,511
Ferro-silicon	43,212	43,514	44,099	48,226	61,427	62,172

(a) Excluding alumino-thermic.

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

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Italy (cont.)—						
Silico-manganese	24,789	33,739	26,990	33,817	31,534	32,488
Ferro-chrome	10,016	5,146	15,208	21,795	28,798	31,398
Ferro-titanium	162	199	232	76	99	203
Ferro-tungsten	34	33	21	r 2	15	—
Ferro-vanadium	49	80	129	140	147	170
Ferro-molybdenum	942	833	859	957	947	665
Silico-aluminium	619	634	1,090	—	814	711
Silicon pig iron (10-12% Si)	2,217	967	1,631	1,752	1,852	1,947
Silico-spiegeleisen	1,326	1,750	2,053	1,318	1,597	1,949
Silico-chrome	1,117	—	2,885	2,047	802	—
Calcium silicide	4,081	3,676	3,049	3,670	3,340	4,699
Ferro-phosphorus	700	463	759	905	n.a.	n.a.
Luxemburg—						
Basic	3,540,045	3,530,158	4,124,824	4,079,129	3,899,902	3,899,996
Norway—						
Pig-iron	389,572	400,594	429,815	516,061	619,702	626,776
Ferro-silicon	168,910	155,721	220,970	273,710	232,745	283,304
Ferro-manganese	54,423	57,091	74,684	118,701	115,221	133,226
Ferro-silico-manganese	77,149	89,026	107,809	124,318	119,454	131,800
Ferro-chrome and silico- chrome	21,022	33,346	45,112	39,023	30,948	32,222
Other ferro-alloys	1,259	1,250	1,079	1,137	3,170	5,153
Portugal—						
Basic	181,586	199,597	222,671	244,065	221,008	263,060
Foundry	36,689	31,284	35,930	20,490	15,772	10,395
Ferro-manganese	393	706	661	672	825	938
Ferro-silicon	2,787	4,866	4,633	5,962	7,034	6,079
Ferro-tungsten	—	—	322	215	241	364
Spain—						
Pig-iron	2,066,682	1,880,923	1,873,333	r 2,300,843	2,081,000	2,637,000
Ferro-manganese	27,571	27,145	32,326	37,163	35,396	38,280
Ferro-silicon	24,771	27,601	16,364	14,867	18,237	23,200
Ferro-tungsten	153	—	—	—	—	—
Ferro-chrome	868	17,048	16,595	r 16,337	17,300	n.a.
Ferro-phosphorus	—	—	—	—	—	—
Other ferro-alloys	—	—	—	—	—	—
Sweden—						
Pig-iron	1,792,577	1,854,282	2,161,175	2,243,506	2,188,509	2,320,400
Ferro-manganese	22,903	25,480	26,250	25,703	25,014	39,000
Ferro-silicon	25,561	23,148	26,862	30,379	28,749	29,900
Ferro-silico-manganese	14,023	10,970	10,733	14,428	20,718	24,900
Ferro-chrome	43,666	45,067	50,036	56,217	55,192	54,000
Ferro-titanium	60	—	—	—	—	—
Ferro-tungsten	519	237	208	78	51	—
Ferro-molybdenum	1,241	1,460	2,043	2,397	2,304	2,200
Ferro-vanadium	282	312	319	370	430	400
Metallic silicon	5,919	8,026	7,145	9,168	8,805	8,800
Silico-chrome	25,253	23,816	39,206	38,386	37,259	55,300
Other ferro-alloys	329	267	224	148	186	n.a.
U.S.S.R.—						
Basic	44,859,000	47,602,000	50,779,000	n.a.	58,887,000	63,134,000
Foundry	7,943,000	8,481,000	8,835,000	n.a.	8,837,000	9,161,000
Spiegeleisen	89,000	90,000	80,000	n.a.	91,000	90,000
Ferro-manganese	799,000	808,000	902,000	n.a.	888,000	897,000
Other blast furnace ferro-alloys	702,000	783,000	796,000	n.a.	451,000	349,000
Yugoslavia—						
Pig-iron	1,033,000	980,673	1,009,814	1,097,447	1,125,155	1,158,000
Ferro-alloys	52,626	62,777	46,802	58,948	72,917	77,422
South Africa—						
Pig-iron	2,192,700	2,182,800	2,614,500	3,219,600	3,367,900	3,366,200
Ferro-alloys	168,400	206,400	239,200	376,000	372,100	353,000

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

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
United States—						
Basic	52,505,467	57,991,137	69,997,803	71,813,215	74,529,700	72,629,000
Bessemer	2,520,245	2,472,682	2,435,272	2,425,000	2,573,200	1,537,000
Low phosphorus	156,012	167,561	174,737	195,939	186,600	148,000
Foundry	1,275,548	1,368,587	1,449,111	1,428,054	1,493,800	1,384,000
Malleable	1,923,176	1,952,204	2,029,979	2,505,409	2,542,900	1,634,000
Other pig-iron	227,431	194,306	279,691	368,902	370,500	332,000
Ferro-manganese and spiegeleisen	716,067	606,635	773,712	901,041	816,100	842,000
Ferro-silicon and silvery pig-iron	487,405	493,874	598,416	(b) 628,712	(b) 463,400	(b) 471,000
Other ferro-alloys	541,629	570,181	772,391	910,549	955,400	908,000
Brazil—						
Pig-iron	2,048,116	2,437,428	2,586,979	2,317,477	2,865,576	3,050,000
Spiegeleisen	124	—	—	—	—	n.a.
Ferro-chrome	1,982	1,684	128	2,150	2,978	n.a.
Ferro-columbium	—	—	18	272	452	520
Ferro-manganese	22,646	20,132	20,317	22,829	27,795	n.a.
Ferro-nickel	326	237	3,172	3,525	3,708	n.a.
Ferro-silicon	7,931	9,930	8,120	7,489	9,178	n.a.
Ferro-silico-manganese	4,945	5,544	6,587	11,053	7,230	n.a.
Japan—						
Pig-iron	17,688,051	19,621,124	23,402,839	27,068,000	31,512,000	39,462,000
Spiegeleisen	3,583	717	535	100	500	700
Ferro-chrome	83,193	80,587	134,632	115,000	135,100	194,300
Ferro-manganese	163,962	162,979	208,248	217,200	233,800	297,800
Ferro-molybdenum	497	1,001	1,406	1,200	1,700	2,000
Ferro-phosphorus	1,130	1,241	1,703	1,500	2,000	2,400
Ferro-silicon	74,165	92,687	111,995	118,900	136,400	144,000
Ferro-titanium	450	169	n.a.	n.a.	n.a.	n.a.
Ferro-tungsten	869	748	1,159	700	700	1,100
Ferro-nickel	35,404	46,143	77,086	72,600	70,400	105,200
Ferro-vanadium	598	1,267	1,110	n.a.	n.a.	n.a.
Silico-manganese	88,056	95,353	112,906	113,400	124,100	173,100
Silico-chrome	43,206	31,989	58,209	n.a.	n.a.	n.a.
Calcium-silicon	7,361	6,922	9,477	5,500	7,200	7,800
Other ferro-alloys	7,450	11,472	n.a.	n.a.	n.a.	n.a.
Turkey—						
Pig-iron	288,000	388,000	395,000	492,000	809,000	834,000
Ferro-chrome	—	3,700	4,745	7,355	7,000	8,337

(a) Estimated.

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

PRODUCTION OF STEEL INGOTS AND CASTINGS*

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom	20,491,000	22,520,200	26,229,900	27,006,100	24,315,300	23,895,200
Rhodesia (c)	86,600	82,555	125,597	128,000	128,000	134,000
Canada	6,404,941	7,318,813	8,150,417	8,954,374	8,931,132	8,655,688
India	5,070,600	(c)5,874,324	(c)5,937,477	(c)6,311,398	(c)6,502,000	c) 6,216,000
Pakistan	10,537	11,590	12,067	n.a.	n.a.	n.a.
Australia (f)	4,170,767	4,579,892	4,967,744	5,373,049	5,796,813	6,188,780
TOTAL	36,230,000	40,390,000	45,420,000	47,800,000	45,700,000	45,100,000
Irish Republic (d)	18,800	19,400	51,800	52,100	55,600	n.a.
OTHER COUNTRIES						
Austria	2,923,119	2,900,761	3,143,976	3,170,438	3,142,383	2,975,224
Belgium	7,181,300	7,298,575	8,600,000	9,000,000	8,700,000	9,546,000
Bulgaria	415,993	453,334	467,000	579,000	689,000	1,219,000
Czechoslovakia	7,518,000	7,480,000	8,244,000	8,463,000	8,984,000	9,844,000
Denmark	361,000	353,200	389,900	405,400	398,300	386,000
Finland	299,064	303,543	352,000	373,000	409,000	421,000
France	16,968,015	17,279,305	19,467,773	19,294,145	19,275,848	19,344,000
Germany—						
Federal Republic	32,045,000	31,098,000	36,749,000	36,240,000	34,758,000	36,164,000
Eastern	3,564,800	3,568,600	3,790,900	3,828,500	4,020,000	4,176,000
Greece	(e) 150,000	206,000	207,000	207,000	196,000	269,000
Hungary	2,295,710	2,336,539	2,327,404	2,480,294	2,607,000	2,696,000
Italy	9,603,344	9,996,123	9,638,613	12,481,118	13,423,208	15,648,746
Luxemburg	3,946,610	3,967,985	4,486,546	4,512,400	4,320,794	4,410,262
Netherlands	2,053,300	2,310,100	2,604,600	3,088,800	3,216,300	3,350,000
Norway	480,076	535,000	605,720	675,118	716,300	766,000
Poland	7,563,000	7,878,000	8,437,000	8,944,000	9,694,000	10,289,000
Portugal	171,840	218,879	245,703	264,929	261,288	305,864
Roumania	2,412,000	2,661,000	2,991,000	3,372,000	3,612,000	4,023,000
Spain	2,498,000	2,721,000	3,101,000	3,460,000	3,700,000	4,452,000
Sweden	3,553,879	3,838,965	4,438,938	4,637,290	4,678,726	4,570,000
Switzerland	313,000	317,000	340,000	342,000	421,000	438,000
U.S.S.R.	75,101,000	78,959,000	83,691,000	89,563,000	95,376,000	100,620,000
Yugoslavia	1,570,000	1,562,776	1,650,679	1,741,298	1,836,926	1,803,000
Egypt	187,000	193,964	179,791	183,278	194,204	n.a.
South Africa (a)	2,537,600	2,707,400	2,954,400	3,080,100	3,092,300	3,521,300
Mexico	1,656,000	1,935,398	2,300,000	2,341,091	2,743,454	2,991,642
United States (b)	87,792,666	97,554,418	113,460,506	117,376,430	119,733,400	113,584,000
Argentina (c)	634,300	880,600	1,247,000	1,324,900	1,250,300	1,304,000
Brazil	2,524,700	2,787,100	3,024,400	2,969,200	3,800,000	3,500,000
Chile (c)	486,748	481,274	535,655	434,000	531,000	586,881
Colombia	136,100	195,422	192,979	200,490	171,000	n.a.
Peru	70,000	75,000	81,000	93,000	76,000	75,000
Uruguay	9,000	7,000	14,000	13,000	23,000	n.a.
Venezuela	221,000	358,000	433,000	1,068,000	514,000	656,000
Burma (e)	13,000	15,000	15,000	15,000	15,000	n.a.
China	10,000,000	12,000,000	e 14,000,000	e15,000,000	e16,000,000	e11,000,000
Formosa	179,000	271,000	296,000	433,000	295,000	(e) 246,000
Israel	79,000	82,000	(e) 82,000	(e) 83,000	(e) 83,000	n.a.
Japan	27,111,196	31,003,913	39,170,588	40,511,000	47,029,100	61,172,000
Korea (North)	1,033,000	1,006,000	1,032,000	1,210,000	(e)1,300,000	(e)1,427,000
Korea (South)	146,057	159,800	131,634	191,793	214,418	324,000

* For details see page 162.

(a) Excluding steel castings for which the amounts produced for sale were 62,300 tons, 82,000 tons, 93,200 tons, 106,900 tons 99,700 tons and 97,400 tons, in 1962, 1963, 1964, 1965, 1966, and 1967 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	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES (cont.)						
Philippine Republic ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Thailand	7,000	3,000	4,000	7,000	5,000	3,000
Turkey (b)	308,000	382,000	477,000	655,000	924,000	1,075,000
TOTAL	318,000,000	340,000,000	386,000,000	404,000,000	422,000,000	440,000,000
WORLD'S TOTAL ..	354,000,000	380,000,000	431,000,000	452,000,000	468,000,000	485,000,000

(a) United States Bureau of Mines' estimate.

(b) Ingots only.

**DETAILS OF PRODUCTION OF STEEL INGOTS AND CASTINGS
IN CERTAIN COUNTRIES**

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ingots and castings—						
Open hearth, acid ..	445,400	383,500	419,300	392,000	255,900	131,700
do. basic ..	16,274,700	16,725,600	18,069,600	16,822,200	14,114,700	13,518,400
Bessemer, acid (a) ..	193,000	213,700	290,300	258,400	} 6,601,300	6,826,700
do. basic (a) ..	2,013,700	3,041,900	4,432,300	6,026,300		
Ingots, electric ..	1,102,900	1,692,300	} 2,938,700	3,437,300	3,343,400	3,418,400
Castings, electric ..	377,700	384,600				
All other ingots and castings	83,600	78,600	79,700	69,900	(b)	(b)
Canada—						
Ingots—						
Open hearth, basic and oxygen ..	5,709,331	6,537,118	7,249,831	7,809,471	7,728,426	7,530,912
do. electric ..	583,796	669,098	756,881	999,099	1,034,132	996,922
Castings—						
Open hearth, basic ..	2,790	2,360	1,206	} 145,804	168,574	127,855
Electric	109,024	110,237	142,499			
India—						
Ingots—						
Open hearth, basic ..	4,934,779	5,791,632	5,851,577	6,205,109	} 6,502,000	6,216,000
Electric	75,362	82,692	85,900	106,289		
Castings	60,500	n.a.	n.a.	n.a.	n.a.	n.a.
OTHER COUNTRIES						
Austria—						
Open hearth	800,888	735,861	810,409	826,662	823,472	594,763
Electric	321,532	345,409	400,627	405,712	391,727	388,085
L.D.	1,800,699	1,819,491	1,932,940	1,938,064	1,927,184	1,992,376
Belgium—						
Ingots, open hearth ..						
do. Bessemer, basic	496,606	317,964	435,767	377,825	245,521	211,472
do. electric	6,265,329	6,599,526	7,088,736	6,780,051	6,144,916	6,339,768
do. oxygen	350,868	183,935	340,904	333,607	302,787	285,813
do.	—	134,091	625,682	1,424,108	1,987,332	2,645,852
Castings	68,497	63,059	n.a.	n.a.	n.a.	n.a.
Czechoslovakia—						
Open hearth	6,266,000	6,198,000	6,897,000	7,087,000	7,285,000	7,318,000
Bessemer	226,000	219,000	230,000	233,000	238,000	243,000
Electric	1,026,000	1,063,000	1,117,000	1,143,000	1,190,000	1,240,000
Denmark—						
Ingots, open hearth ..						
Castings do.	334,500	328,600	362,700	376,300	373,400	} 379,900
do. electric	4,000	9,000	5,400	6,100	8,100	
do.	22,500	15,600	21,800	23,000	16,800	14,800
Finland—						
Ingots	288,272	289,220	338,000	357,000	393,000	405,000
Castings	10,792	14,323	14,000	16,000	16,000	16,000
France—						
Ingots and castings—						
Bessemer, acid	99,836	79,742	92,019	87,018	65,673	66,000
do. basic	9,867,543	9,678,178	10,435,836	10,231,772	10,138,067	9,952,000
Open hearth, acid ..	} 4,848,203	4,698,713	5,100,438	4,699,518	4,412,322	4,216,000
do. basic						
Crucible	2,500	2,086	1,957	1,995	566	—
Electric	1,502,105	1,501,032	1,648,653	1,746,371	1,833,469	1,875,000
Kaldo, L.D., etc. ..	647,828	1,319,554	2,188,870	2,527,471	2,825,751	3,235,000
Of which—						
Ingots	16,603,902	16,938,984	19,106,958	18,933,262	18,943,472	19,004,000
Castings	364,113	340,321	360,815	360,883	332,376	340,000

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

(b) Included with Bessemer.

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

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
(cont.)						
Germany (Federal)—						
Ingots—						
Open hearth	14,693,000	13,724,000	16,482,000	15,479,000	13,488,000	13,335,000
Bessemer, basic	13,002,000	12,244,000	12,046,000	10,640,000	9,640,000	8,333,000
Electric	2,035,000	2,150,000	2,451,000	2,557,000	2,545,000	2,598,000
Oxygen	1,657,000	2,414,000	5,143,000	6,924,000	8,516,000	11,379,000
Castings—						
Open hearth	117,000	72,000	87,000	78,000	57,000	49,000
Electric	490,000	454,000	501,000	530,000	497,000	462,000
Other	51,000	40,000	39,000	32,000	15,000	8,000
Germany (East)—						
Open hearth	2,816,400	2,820,200	3,020,900	3,044,300	3,209,300	3,834,000
Bessemer, basic	375,900	369,800	373,500	368,700	371,900	367,700
Electric	363,700	378,600	396,500	415,500	438,800	474,500
Other	8,800	—	—	—	—	—
Italy—						
Ingots	9,409,042	9,803,095	9,473,766	12,324,239	13,252,048	15,401,724
Castings	194,302	193,028	164,847	156,879	171,160	237,180
Luxembourg—						
Bessemer, basic and oxygen	3,883,634	3,903,032	4,418,512	4,456,700	4,270,272	4,369,809
Electric	62,976	64,953	68,034	55,665	50,522	40,453
Norway—						
Ingots	456,552	511,021	580,979	648,096	687,042	750,501
Castings	23,524	24,000	24,741	27,022	29,300	27,000
Portugal—						
Ingots—						
L.D.	160,918	179,327	203,807	228,411	210,259	261,855
Electric	3,761	30,230	32,242	29,456	43,254	35,178
Castings	7,161	9,322	9,654	7,062	7,775	8,831
Spain—						
Open hearth and Bessemer	1,858,000	1,822,000	1,947,000	2,010,000	2,100,000	2,030,400
Electric	640,000	798,000	824,000	1,045,000	1,196,000	1,529,400
Oxygen	—	101,000	330,000	405,000	400,000	880,900
Sweden—						
Open hearth, acid	347,313	348,458	412,217	455,955	445,684	1,339,500
do. basic	799,583	866,142	989,384	1,040,939	1,013,869	
Bessemer, acid	—	—	—	—	—	94,500
do. basic	438,372	437,336	456,704	364,410	140,908	
Electric	1,541,204	1,658,952	1,861,594	1,765,118	1,708,534	1,721,400
Other	427,407	528,077	719,039	1,010,868	1,369,731	1,537,300
U.S.S.R.—						
Open hearth	63,899,000	66,994,000	70,496,000	75,321,000	78,378,000	80,476,000
Bessemer	1,879,000	1,940,000	1,954,000	2,060,000	1,930,000	1,851,000
Electric	6,710,000	7,346,000	8,043,000	8,420,000	8,736,000	9,082,000
Other	2,613,000	2,679,000	3,198,000	3,762,000	6,332,000	9,211,000
of which—						
Ingots	69,761,000	73,236,000	77,675,000	n.a.	89,063,000	94,438,000
Castings	5,340,000	5,723,000	6,016,000	n.a.	6,313,000	6,478,000
Yugoslavia—						
Open hearth	1,413,000	1,369,682	1,459,240	1,515,310	1,547,713	1,525,519
Electric	157,300	193,094	191,439	225,988	289,213	277,546
South Africa—						
Ingots—						
Open hearth (including duplex)	2,234,500	1,656,200	1,675,200	1,638,500	1,649,400	1,747,200
Oxygen		675,000	873,700	971,100	1,002,800	1,256,900
Electric		303,100	376,200	405,500	470,500	440,100	517,200
Castings (a)	62,300	82,000	93,200	106,900	99,700	97,400

(a) Produced for sale.

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

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
United States—						
Ingots and castings (a)—						
Open hearth, acid ..	338,468	354,656	395,298	292,246	197,300	125,000
do. basic ..	73,730,566	78,961,348	87,191,754	83,808,848	75,718,100	62,991,000
Bessemer	718,719	859,517	765,702	523,183	248,200	(b)
Oxygen	4,957,765	7,628,641	13,787,666	20,427,326	30,293,000	36,995,000
Electric	8,047,148	9,750,256	11,320,086	12,324,827	13,276,800	13,473,000
Of which—						
Ingots	87,631,707	97,395,545	113,261,201	117,137,796	119,450,400	113,410,000
Castings	160,959	158,873	199,305	238,634	283,000	173,000
Japan—						
Open hearth	13,074,666	12,001,986	13,634,591	10,003,800	8,498,500	8,899,100
Bessemer, basic ..	8,307,354	11,854,960	17,303,032	22,271,100	29,439,900	n.a.
Electric	5,729,176	7,146,967	8,232,965	8,236,100	9,090,700	11,181,500

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

(b) Included with open hearth.

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

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Pig-iron—						
Forge and foundry ..	88,730	20,780	10,877	24,189	6,856	8,637
Refined	20,082	16,155	7,422	9,228	7,000	6,516
Other	110,611	49,656	19,922	54,161	26,078	116,924
Iron and steel powders, shot and sponge						
Spiegeleisen	<i>n.a.</i>	18,078	18,907	20,022	18,122	15,614
Ferro-manganese	873	76	60	93	—	10
Ferro-tungsten	1,584	940	10,036	13,076	22,101	17,794
Ferro-molybdenum	229	1,225	896	1,005	1,175	1,176
Ferro-titanium	552	160	130	277	478	209
Ferro-vanadium	5	1,024	1,076	1,281	1,085	977
Ferro-niobium and ferro-niobium-tantalum	5	3	5	117	61	41
Other ferro-alloys	68	173	153	212	196	175
Ingots, blooms, billets	2,810	3,240	3,371	2,966	3,173	4,721
Old and scrap (a)	85,283	32,579	81,053	89,983	82,742	277,071
Channel Islands—	1,084,785	1,066,609	703,085	422,811	274,490	1,116,374
Scrap	3,584	4,336	(c) 1,329	(c) 3,066	(c) 1,864	(c) 2,518
Malta—						
Scrap	4,276	5,879	9,749	8,935	5,624	7,142
Kenya—						
Scrap	<i>n.a.</i>	2,908	22,562	8,618	5,628	5,490
Nigeria—						
Scrap	4,551	5,232	10,755	6,110	9,519	6,656
Rhodesia (d)—						
Pig-iron	201,960	213,277	214,947	211,046	<i>n.a.</i>	<i>n.a.</i>
Ferro-alloys	8,078	13,728	22,341	20,990	<i>n.a.</i>	<i>n.a.</i>
Ingots, etc.	9,153	184	33,421	22,847	<i>n.a.</i>	<i>n.a.</i>
Scrap	10,712	21,376	<i>n.a.</i>	30	<i>n.a.</i>	<i>n.a.</i>
Tanzania—						
Scrap	—	1,599	8,148	2,317	2,283	3,633
Barbados—						
Scrap	—	643	300	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Jamaica—						
Scrap	1,041	5,048	20	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Trinidad and Tobago—						
Old and scrap	—	742	3,891	3,447	6,644	2,877
Canada—						
Pig-iron	414,215	435,745	527,711	522,210	452,892	433,656
Ferro-chrome	5,895	2,598	154	183	31	—
Ferro-manganese	121	9	2,999	3,408	5,109	3,874
Ferro-silicon	38,615	32,800	41,060	41,453	33,949	37,437
Other ferro-alloys	2,971	1,271	214	1,654	5,314	1,056
Ingots, blooms, billets	236,238	336,884	394,853	271,220	197,307	156,988
Old and scrap	349,063	383,919	554,071	214,029	266,639	389,044
Tin-plate scrap	19,707	21,776	25,033	19,605	20,903	21,055
Aden—						
Scrap	39	r 1,627	r 1,688	r 848	<i>n.a.</i>	507
Hong Kong—						
Old and scrap	103,988	132,388	148,947	126,773	92,968	115,310
Tinplate scrap	4,059	3,462	4,699	4,027	1,230	1,276
India(b)—						
Pig-iron	19,011	—	—	6	168,165	550,724
Ferro-manganese	12,093	21,581	85,398	55,532	10,127	28,833
Ingots, blooms, billets	—	—	—	2,115	2,231	47,750
Old and scrap	176,325	377,863	442,780	439,378	444,917	563,398

(a) Excluding ships intended for breaking up as follows (gross tonnage): 1962—126,362; 1963—105,581; 1964—67,390; 1965—99,820; 1966—59,960; 1967—89,130.

(b) Years ended March 31 following that stated. (d) Figures for the years 1962 and 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	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES (cont.)						
Malaysia (West)—						
Scrap	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	34,370	31,939	36,642
Singapore—						
Pig-iron	1,258	880	853	342	2,359	1,433
Ingots, blooms, etc. .. .	128	85	25	377	2,044	1,100
Scrap	21,834	27,103	23,113	11,376	8,455	3,535
Australia (a)—						
Pig-iron	225,647	159,359	73,408	59,607	49,831	(b) 129,751
Ferro-alloys	48	8	8	131	51	(b) 16,922
Ingots, blooms, billets .. .	159,248	23,885	20,291	5,843	80,768	(b) 365,359
Old and scrap	151,038	196,453	336,041	353,963	250,082	338,005
Tin-plate scrap	14,819	22,629	15,576	14,518	14,989	65,123
New Zealand—						
Scrap	<i>n.a.</i>	(a) 285	(a) 578	(a) 529	(a) 4,985	(a) 5,448
Irish Republic—						
Old and scrap	14,226	26,032	44,875	34,558	18,346	31,533
OTHER COUNTRIES						
Austria—						
Pig-iron	2,167	1,022	729	49,898	660	8,811
Ferro-silicon	2,380	2,361	3,354	3,659	3,903	4,317
Other ferro-alloys	r 25,862	11,642	r 3,665	r 1,744	r 5,123	6,052
Ingots and blooms	4,427	3,386	3,825	3,686	5,441	11,377
Scrap						
Belgium-Luxemburg						
E.U.—						
Pig-iron	53,204	137,478	64,931	78,582	73,693	89,882
Spiegeleisen	4,163	1,964	4,080	1,076	2,066	3,150
Ferro-manganese	22,946	29,017	36,731	43,021	63,070	64,106
Other ferro-alloys	8,264	5,467	1,468	2,305	2,954	2,179
Ingots	42,630	45,910	41,290	7,436	20,520	6,948
Blooms, billets, etc. .. .	456,788	400,985	647,265	747,398	641,885	552,521
Old and scrap	356,644	512,353	161,640	165,751	728,682	805,505
Bulgaria—						
Pig-iron	<i>n.a.</i>	8,292	128,851	296,243	<i>n.a.</i>	<i>n.a.</i>
Steel ingots	—	15,255	3,875	6,566	<i>n.a.</i>	<i>n.a.</i>
Denmark—						
Blooms, billets, etc. .. .	2,143	3,742	3,329	3,085	3,042	2,344
Old and scrap	27,501	38,174	48,868	41,038	37,252	61,589
Finland—						
Pig-iron	106,425	229,944	473,189	784,588	771,419	779,296
Ferro-alloys	—	16,844	39	—	—	—
Blooms, billets, etc. .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	5,950	5,395	1,433
Old and scrap	3,055	2,974	4,173	3,036	3,566	4,828
France—						
Pig-iron	218,112	149,744	99,370	98,501	55,865	70,546
Spiegeleisen	17,332	12,733	15,821	16,872	12,073	7,492
Ferro-manganese	152,040	147,755	192,878	200,442	184,815	167,227
Ferro-silicon	18,534	18,677	23,653	20,409	20,470	23,557
Ferro-chrome	15,070	16,112	15,980	18,175	22,727	19,536
Other ferro-alloys	4,682	7,074	8,428	13,225	19,693	23,067
Ingots	12,875	18,264	130,989	79,475	91,797	109,488
Blooms, billets, etc. .. .	147,177	345,805	513,941	354,357	406,003	448,157
Old and scrap	1,171,229	1,176,547	1,478,046	1,802,489	1,793,996	2,156,413
Germany (Federal)—						
Pig-iron	882,775	796,781	636,879	421,683	497,591	1,114,137
Spiegeleisen	16,771	17,619	10,034	9,214	11,533	12,278
Ferro-alloys	43,387	77,314	74,149	72,023	118,102	69,465
Ingots, blooms, billets .. .	r 1,028,360	r 1,080,268	r 942,089	r 1,045,167	r 892,747	1,333,789
Old and scrap	1,188,214	1,278,191	1,287,500	1,929,245	1,948,780	2,091,848

(a) Years ended June 30 of that stated.

(b) Owing to reclassification, not comparable with earlier years (includes cast iron).

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

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Hungary—						
Pig iron	27,050	14,588	61,754	81,531	78,318	78,240
Iceland—						
Scrap	2,645	n.a.	3,223	1,219	1,399	1,760
Italy—						
Pig-iron	126	143	63	203	195	157
Spiegeleisen	6	8	37	516	29	6
Ferro-manganese	1,276	2,008	7,497	6,969	9,125	8,478
Ferro-molybdenum	(a)	(a)	13	1	1	1
Ferro-silicon	3,724	1,682	572	1,500	1,854	1,442
Ferro-silico-manganese	290	59	9	38	540	117
Ferro-chrome	2,276	1,942	4,137	7,011	7,941	7,498
Ferro-vanadium	(a)	(a)	39	18	5	n.a.
Other ferro-alloys	2	20	99	2	249	595
Ingots	120,390	100,397	111,073	84,723	34,157	14,588
Blooms, billets, etc.						
Scrap						
Netherlands—	884	1,709	4,829	1,798	2,030	2,504
Pig-iron	200,698	142,883	93,188	83,196	97,069	291,919
Sponge iron	421	154	209	80	61	18
Ferro-alloys	209	333	257	221	727	658
Ingots, blooms and billets	8,286	34,074	81,557	193,728	266,145	800,116
Old and scrap	230,706	277,612	415,942	442,971	387,647	556,792
Norway—						
Pig-iron	132,985	172,507	121,942	135,528	180,263	152,893
Ferro-chrome	16,797	27,043	33,672	30,384	28,797	27,065
Ferro-manganese	45,844	59,499	72,177	100,180	112,460	118,611
Ferro-silicon	133,763	151,627	215,382	236,363	216,214	263,125
Ferro-silico-manganese	70,570	83,022	105,999	116,953	106,830	111,466
Other ferro-alloys	3,540	6,550	10,244	6,694	3,423	4,714
Ingots, blooms, billets	48,119	86,990	103,908	104,188	110,951	172,273
Old and scrap	2,352	4,574	8,661	11,067	14,860	6,267
Poland—						
Pig-iron	27,500	57,576	15,200	1,118	9,842	262,883
Ferro-alloys	3,900	3,536	6,239	4,334	3,024	284
Portugal—						
Pig-iron	10,017	19,090	17,309	51	535	8
Ferro-alloys	2,398	3,464	5,627	4,316	6,282	7,789
Old and scrap	14,782	18,089	56,817	30,389	11,562	13,295
Spain—						
Pig-iron	142,339	148,192	145,569	107,969	88,944	14,418
Ferro-silicon	9,700	9,854	7,888	3,123	8,537	9,275
Other ferro-alloys	5,602	9,816	9,680	6,477	2,715	4,399
Ingots, blooms, billets	62,319	49,273	49,165	n.a.	23,583	—
Sweden—						
Pig-iron	34,413	56,000	37,134	30,208	13,616	81,342
Sponge iron	28,485	35,577	44,127	62,213	64,152	51,189
Ferro-manganese	2,537	4,183	2,913	3,130	8,028	12,561
Ferro-silicon	4,549	2,825	4,667	1,155	1,544	4,401
Ferro-silico-manganese	25	20				
Ferro-chrome	17,057	22,613	20,231	18,685	22,555	22,979
Ferro-tungsten	104	169	71	86	147	104
Other ferro-alloys	2,902	2,318	2,321	2,341	2,600	9,425
Ingots	2,623	103,498	118,742	99,725	57,180	55,114
Blooms, billets, etc.						
Old and scrap						
Switzerland—	11,288	11,616	21,469	18,443	18,367	16,975
Pig-iron and steel, etc.	507	437	—	2	—	3
Ferro-alloys	8,929	13,911	15,086	12,807	9,790	11,761
Old and scrap	6,971	14,622	30,562	32,174	16,575	30,027

(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	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES (cont.)						
U.S.S.R.—						
Pig iron	2,238,300	2,498,100	3,147,900	3,601,300	4,314,500	4,362,100
Ferro-manganese	54,800	56,000	58,700	66,200	86,000	85,626
Ferro-silicon	53,300	13,900	65,600	82,700	90,000	98,800
Other ferro-alloys	36,900	61,000	22,200	30,900	30,800	32,800
Steel ingots and billets	829,700	782,600	802,300	837,600	1,010,000	1,025,937
Scrap	221,200	266,800	464,200	555,600	605,600	666,900
Yugoslavia—						
Pig-iron	59	—	—	—	1,377	75,746
Spiegeleisen	167	—	—	—	—	—
Ferro-chrome	5,763	7,184	6,906	9,948	9,090	8,028
Ferro-manganese	7,693	8,130	4,631	3,038	701	389
Silico-manganese	1,794	4,564	1,812	2,105	8,960	11,215
Ferro-silicon	9,561	16,168	7,191	10,198	10,481	16,312
Steel ingots	50,507	27,397	46	—	1,911	7,366
Scrap	2,757	682	281	2,270	720	32,664
Algeria—						
Old and scrap	n.a.	92,000	n.a.	r 18,000	—	n.a.
Morocco—						
Old and scrap	20,138	27,152	30,884	31,634	27,811	34,353
Mozambique—						
Scrap	—	4,701	8,479	8,724	5,304	n.a.
South Africa—						
Pig-iron	212,595	215,365	348,027	554,386	757,757	766,330
Ferro-manganese	104,861	77,444	120,310	155,110	154,400	125,816
Other ferro-alloys	15,131	38,322	52,988	78,183	110,545	2,363
Ingots, blooms, billets	30,469	2,889	3,493	909	3,855	709
Sudan—						
Scrap	—	1,705	2,021	1,653	8,969	7,733
Tunisia—						
Scrap	18,238	7,978	10,926	7,894	5,180	21,489
Mexico—						
Ferro-alloys	2,795	1,260	—	—	3,792	—
United States—						
Pig-iron	137,839	62,637	157,193	25,201	10,823	6,653
Spiegeleisen	638	1,050	701	n.a.	n.a.	n.a.
Powders and sponge	710	333	766	4,611	5,020	7,178
Ferro-phosphorus	12,616	36,930	145,684	71,349	56,198	20,447
Ferro-manganese	3,673	605	3,485	2,922	487	1,662
Ferro-chrome	2,745	2,102	8,957	10,716	6,828	12,012
Ferro-molybdenum	85	107	779	1,001	982	684
Ferro-vanadium	179	164	92	197	430	314
Ferro-silicon	3,662	2,795	5,165	4,094	5,189	10,512
Ferro-tungsten	5	1	—	—	—	—
Ferro-titanium	116	188	483	7,539	6,519	7,122
Other ferro-alloys	308	384	568	—	—	—
Steel ingots, slabs, blooms, billets and sheet bars	225,596	271,889	882,731	605,542	304,610	275,337
Scrap (a)	4,499,930	5,681,801	6,948,033	6,619,765	5,230,523	6,816,662
Argentina—						
Ingots, blooms, billets	1,633	43,876	11,725	4,142	11,941	3,823
Brazil—						
Pig-iron	—	—	146,601	99,696	1,968	259,564
Ferro-manganese	4,937	—	—	7,145	764	305
Other ferro-alloys	n.a.	n.a.	1,561	3,070	1,282	2,439
Chile—						
Pig-iron	364	—	r —	—	n.a.	n.a.
Ferro-manganese	13,509	10,818	r 5,537	2,796	n.a.	n.a.
Formosa—						
Pig-iron	n.a.	3,160	4,461	5,851	9,551	n.a.
Ferro-manganese	n.a.	1,548	168	132	1,487	n.a.
Ferro-silicon	n.a.	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	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Indonesia—						
Scrap	984	1,673	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Israel—						
Scrap	1,342	1,199	1,418	1,253	351	952
Japan—						
Pig-iron	1,867	288	514	3,444	20,503	5,668
Ferro-chrome	12,288	7,840	3,800	23,358	21,904	6,228
Ferro-manganese	21,091	14,158	8,724	15,072	14,808	4,736
Ferro-silicon	2,646	557	157	993	1,341	2,350
Ferro-silico-manganese	6,463	3,701	427	712	589	343
Other ferro-alloys	648	767	738	1,405	1,956	1,022
Ingots, blooms, billets..	28,913	56,443	57,994	451,273	161,881	49,853
Scrap	663	1,715	4,239	2,757	2,767	4,424
Korea (South)—						
Scrap	445	90	30	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Lebanon—						
Scrap	<i>n.a.</i>	154	795	764	4,356	30,032
Philippine Republic—						
Scrap	—	492	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Thailand—						
Scrap	576	2,847	2,526	3,225	202	—
Turkey—						
Pig iron	<i>n.a.</i>	<i>n.a.</i>	—	492	—	—
Old and scrap	584	276	133	492	365	1,838
Ferro-chrome	<i>n.a.</i>	1,348	5,770	5,852	7,251	5,123

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

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Pig-iron—						
Charcoal	808	22,234	88,608	69,212	71,738	28,292
Forge and foundry ..	1,436					
Hematite	59,088	122,336	166,869	160,502	232,514	197,735
Basic	66,760	42,139	77,854	83,476	78,853	35,971
Other (vanadium-titanium pig-iron produced in electric furnace)		2,558	2,395	2,859	1,922	1,948
Sponge-iron	5,693	7,769	9,856	9,276	9,325	8,686
Spiegeleisen	44,206	345	35	151	49	—
Ferro-manganese		54,205	62,037	80,387	75,849	73,324
Ferro-silicon	75,804	87,825	109,673	117,817	98,290	94,732
Ferro-silicon-chrome ..	3,043	3,848	4,473	4,495	4,133	5,998
Ferro-chrome	24,510	34,458	47,254	60,894	50,065	44,627
Ferro-vanadium	24	59	85	239	81	141
Silico-manganese	25,056	27,297	35,837	32,722	27,847	24,390
Other ferro-alloys	2,016	2,578	4,339	6,740	5,662	7,365
Iron and steel ingots, etc.	4,627	556	15,019	13,229	32,697	113,298
Blooms, billets, slabs—						
Iron	127	1	11,089	13,894	68,960	166,220
Steel	151,719	255,428	430,383			
Old and scrap (a)	4,524	4,201	5,004	72,430	5,261	3,154
Malta—						
Ingots, etc.	306	1,093	2,590	22	79	10
Ghana—						
Pig-iron	191	288	231	241	1,213	394
Ferro-manganese	—	—	21	25	4	45
Ingots, blooms, etc. ..	27	22	2,031	3,098	160	315
Kenya—						
Pig-iron	493	493	619	997	1,499	1,340
Ferro-alloys	2	37				
Ingots, blooms, etc. ..	1,496	2,554	33	82	27	148
Mauritius—						
Pig-iron, ingots, etc. ..	62	33	43	28	22	53
Rhodesia (b)—						
Pig-iron, ingots, etc. ..	1,491	42	371	262	<i>n.a.</i>	<i>n.a.</i>
Ferro-alloys	1,820	1,904	1,164	1,370	<i>n.a.</i>	<i>n.a.</i>
Tanzania—						
Pig-iron	94	94	240	807	1,433	1,607
Ferro-alloys	723	860				
Ingots, blooms, etc. ..	163	282	<i>n.a.</i>	—	—	202
Uganda—						
Pig-iron	45	50	86	518	571	567
Ferro-alloys	192	162				
Ingots, blooms, etc. ..	338	182	<i>n.a.</i>	73	—	492
Zambia—						
Pig-iron	<i>n.a.</i>	<i>n.a.</i>	2,472	6,800	5,084	2,311
Ferro-alloys	<i>n.a.</i>	<i>n.a.</i>	389	1,282	28	478
Ingots	<i>n.a.</i>	<i>n.a.</i>	33	1	123	95
Canada—						
Pig-iron	9,023	15,751	14,188	29,887	28,979	25,663
Sponge iron	795	1,096	2,046	1,673	1,753	1,771
Ferro-manganese and spiegeleisen	13,332	20,211	19,491	30,859	43,855	14,325
Ferro-chrome	(c)	(c)	9,359	13,693	11,193	19,411
Ferro-silicon	5,332	3,415	3,065	5,589	5,247	5,182
Ferro-tungsten	127	279	77	158	86	86
Ferro-vanadium	(c)	(c)	232	290	427	346
Silico-manganese and silico-spiegel	2,434	2,102	1,557	703	1,724	3,752

(a) Excluding ships intended for breaking up as follows (gross tonnage): 1962—16,413; 1963—14,956; 1964—13,511; 1965—25,316; 1966—*n.a.*; 1967—1,048.

(b) Figures for the years 1962 and 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	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES (cont.)						
Canada (cont.)—						
Other ferro-alloys ..	8,468	8,144	1,334	2,565	2,029	3,168
Ingots, blooms, billets ..	5,595	3,743	5,715	26,433	33,816	29,190
Scrap	400,618	580,971	766,296	911,427	640,819	503,276
Jamaica—						
Pig-iron	76	210	587	238	350	429
Trinidad and Tobago—						
Pig-iron	11	14	11	4	20	28
Ingots, etc.	733	930	275	162	591	595
Guyana—						
Pig-iron, ingots, etc. ..	65	n.a.	229	1,369	715	853
Ceylon—						
Pig-iron	586	519	1,091	777	1,384	997
Ingots, blooms, billets etc.	4,385	2,142	3,714	1,302	6,963	26,621
Cyprus—						
Pig-iron	50	199	145	59	255	355
Ingots, etc.	714	961	972	778	356	388
Hong Kong—						
Pig-iron	5,260	9,576	7,080	9,328	12,101	2,810
Ingots, blooms, billets ..	4,619	2,982	813	7,377	10,542	25,961
Old and scrap	40,464	39,974	58,872	90,012	35,915	47,389
Tinplate scrap	11,922	14,347	16,992	15,780	16,806	55
India (b)—						
Pig-iron	826	207	104,690	75,161	1,839	315
Ingots, blooms, billets ..	76,647	50,397	53,069	40,970	23,929	20,759
Ferro-chrome	656	477	1,280	861	519	1,185
Ferro-manganese	453	677	462	534	539	317
Ferro-silicon	534	118	403	97	57	89
Other ferro-alloys	760	2,486	1,318	628	675	1,339
Old and scrap	1,710	1,213	686	4,219	7,008	10,444
Malaysia (West)—						
Pig-iron	n.a.	n.a.	n.a.	5,568	7,805	5,602
Ingots, slabs, etc.	n.a.	n.a.	n.a.	401	215	11,906
Scrap	n.a.	n.a.	n.a.	1,119	4,268	5,593
Pakistan—						
Pig-iron	76,343	50,714	64,364	n.a.	n.a.	n.a.
Ferro-alloys	930	573	289	n.a.	n.a.	n.a.
Ingots, blooms, billets ..	229,705	226,273	340,786	n.a.	n.a.	n.a.
Old and scrap	49	872	972	n.a.	n.a.	n.a.
Sabah—						
Ingots, etc.	730	1,954	248	116	215	116
Singapore—						
Pig-iron	7,656	10,303	5,778	8,163	10,445	20,512
Ferro-alloys	14	88	143	422	606	1,552
Ingots, blooms, etc.	4,950	6,936	5,826	16,094	4,945	22,449
Scrap	3,799	10,763	18,134	23,918	24,005	35,260
Australia—						
Ferro-manganese	8,723	12,897	5,893	9,896	7,832	4,955
Ferro-chrome	1,974	2,713	2,993	5,864	2,420	3,430
Ferro-molybdenum	63	149	249	279	366	131
Ferro-silicon	3,798	9,558	7,630	13,002	7,500	9,291
Other ferro-alloys	1,660	3,461	2,506	3,546	1,889	5,684
Ingots and billets, etc.(c)	(a) 191	117	245	54,195	187	79
Scrap (c)	15	81	224	527	(a) 8	(a) 8
New Zealand—						
Pig-iron	8,896	(c) 7,235	(c) 6,336	(c) 8,362	(c) 7,142	(c) 6,794
Ferro-manganese	(d) 709	(c) 603	(c) 524	(c) 525	(c) 840	(c) 742
Other ferro-alloys	709	(c) 266	(c) 352	(c) 281	(c) 576	(c) 622
Billets and blooms	6,729	(c) 2,817	(c) 47	(c) 97	(c) 240	(c) 41
Solomon Islands—						
Billets and blooms	—	—	—	—	1,094	806

(a) Excess of re-exports.

(b) Years ended March 31 following that stated.

(c) Years ended June 30 of that stated.

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

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

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
Irish Republic—						
Pig-iron and sponge iron	3,354	8,507	27,158	20,965	19,998	27,490
Ferro-alloys	491	541	950	1,053	884	646
Ingots, blooms, billets, etc.	9,349	1,403	20,096	51,027	10,503	1,703
OTHER COUNTRIES						
Albania—						
Pig-iron	4,960	2,904	2,642	1,806	<i>n.a.</i>	<i>n.a.</i>
Austria—						
Pig-iron	35,299	95,090	188,679	230,527	151,170	94,954
Spiegeleisen	2,255	2,331	2,654	3,063	2,485	1,765
Ferro-manganese	8,481	9,407	11,784	11,230	12,095	11,291
Ferro-silicon	7,787	7,825	8,410	9,151	9,130	9,400
Other ferro-alloys	14,285	16,300	20,097	25,027	25,186	20,262
Ingots and blooms	378	8,531	5,647	27,893	47,894	88,626
Scrap	41,119	52,361	141,326	106,150	53,719	12,366
Belgium-Luxemburg						
E.U.—						
Pig-iron	418,972	465,048	281,271	227,560	206,274	167,748
Sponge-iron	2,094	40	30	572	1,348	3,152
Spiegeleisen	22,537	19,010	18,284	13,768	12,672	14,749
Ferro-chrome, etc.	4,672	4,469	6,950	6,325	6,571	6,721
Ferro-manganese	56,141	37,914	74,556	67,986	67,754	73,062
Ferro-silico-manganese	3,578	3,601	4,488	7,523	4,643	5,924
Ferro-molybdenum	498	297	379	152	100	83
Ferro-silicon	15,636	14,311	17,808	20,028	20,574	17,631
Ferro-tungsten	132	82	57	14	22	33
Other ferro-alloys	744	1,115	1,771	1,034	2,033	2,273
Ingots	14,344	25,175	196,335	145,147	182,553	219,193
Blooms, billets, etc.	81,943	125,637	167,059	89,124	99,827	150,920
Old and scrap	120,620	85,966	61,962	56,747	190,389	193,770
Bulgaria—						
Pig-iron	132,477	146,720	131,990	162,247	142,710	<i>n.a.</i>
Czechoslovakia—						
Pig iron	250,000	186,000	116,000	116,000	106,000	200,000
Denmark—						
Pig-iron	108,880	80,361	117,078	106,421	92,401	30,555
Ferro-chrome	413	308	347	414	480	401
Ferro-manganese, etc.	2,209	2,932	2,896	2,760	4,159	2,197
Ferro-silicon	2,832	2,557	3,756	3,328	4,275	3,967
Other ferro-alloys	97	118	37	84	104	126
Ingots, blooms, billets	11,656	12,163	36,362	65,813	47,307	91,470
Old and scrap	905	1,172	2,212	271	583	593
Finland—						
Pig-iron	3,379	6,945	13,063	1,241	2,730	4,720
Billets	78,928	58,989	36,024	59,495	65,167	50,354
Ferro-manganese and spiegeleisen	2,545	2,598	1,530	1,789	1,258	2,153
Other ferro-alloys	7,026	7,266	5,576	9,056	8,111	8,588
Old and scrap	126,029	81,072	138,641	136,709	120,548	108,873
France—						
Pig-iron—hematite	138,468	169,837	158,757	90,765	120,169	132,084
do. other	23,837	41,134	30,815	22,658	25,280	24,205
Sponge-iron	2,163	2,275	2,674	3,685	1,629	7,381
Spiegeleisen	2,022	2,658	2,046	1,387	2,262	4,303
Ferro-manganese	7,626	9,963	10,098	8,819	16,421	21,546
Ferro-silicon	74	915	545	356	834	687
Ferro-chrome	942	889	1,218	449	356	3,061
Ferro-nickel	12,238	19,587	22,349	32,388	28,202	44,100
Other ferro-alloys	1,073	1,716	3,083	3,672	2,755	1,965
Ingots	126,196	145,552	154,117	109,695	132,133	129,311
Blooms, billets, etc.	495,074	495,417	499,818	448,246	449,057	481,273
Old and scrap	361,304	568,078	575,246	485,875	502,989	456,607

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

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (Federal)—						
Pig-iron	586,139	457,467	253,542	124,034	133,805	105,910
Spiegeleisen	14,930	13,697	16,002	9,859	10,013	3,331
Ferro-alloys	205,761	207,646	274,844	276,378	182,007	250,946
Rough blooms, ingots, bars, etc.	r 232,093	r 222,085	r 503,911	r 351,255	r 425,374	342,746
Old and scrap	611,407	628,197	1,736,761	1,070,560	659,187	1,086,015
Germany (East)—						
Pig-iron	619,300	647,300	779,700	757,200	638,800	708,600
Greece—						
Pig-iron	43,833	28,671	15,128	26,247	26,960	27,310
Spiegeleisen	125	189	60	147	n.a.	572
Ferro-alloys	722	836	1,170	1,425	1,920	1,866
Ingots, blooms, slabs, etc.	107,322	69,327	41,875	70,674	79,488	48,216
Old and scrap	5,023	534	1,100	1,155	635	732
Hungary—						
Pig iron	100,939	87,394	76,289	103,000	129,000	160,426
Ferro-chrome	4,035	5,632	4,215	4,556	10,254	9,303
Ferro-manganese	10,485	11,208	11,651	11,774	14,634	12,233
Ferro-silicon	2,087	2,466	2,647	3,024	2,393	2,371
Other ferro-alloys	422	355	343	n.a.	n.a.	n.a.
Ingots	323,002	366,817	370,803	n.a.	n.a.	n.a.
Italy—						
Pig-iron	784,466	876,391	526,675	641,875	799,585	1,030,248
Spiegeleisen	13,476	19,064	6,524	5,223	13,716	24,861
Ferro-chrome	10,118	14,753	16,711	14,673	24,291	23,336
Ferro-manganese	42,952	53,853	53,145	77,451	76,652	85,550
Ferro-molybdenum	—	(a) 453	453	616	722	797
Ferro-silicon	6,000	7,386	7,241	9,554	13,956	19,979
Ferro-silico-manganese	2,700	5,535	3,203	5,914	6,710	12,005
Ferro-titanium	458	401	528	866	607	502
Ferro-tungsten	185	129	107	96	178	165
Ferro-vanadium	840	(a) 179	179	334	334	616
Other ferro-alloys	683	1,672	1,000	2,708	5,825	6,664
Ingots	990,023	712,099	1,372,133	843,731	281,136	460,633
Blooms, billets, etc.						
Old and scrap	3,906,685	3,783,838	3,103,493	4,520,086	4,035,596	4,891,020
Netherlands—						
Pig-iron	13,063	31,940	84,425	32,112	70,154	19,408
Sponge iron	1,542	1,887	1,730	2,144	2,928	2,456
Spiegeleisen	483	1,075	708	458	915	317
Ferro-manganese	8,297	12,009	16,649	19,824	17,236	23,255
Ferro-chrome	438	396	820	2,207	2,551	1,106
Ferro-silicon	4,792	4,556	5,964	6,922	6,900	6,460
Ferro-silico-manganese	405	282	372	252	323	899
Ferro-molybdenum	99	56	50	87	87	55
Other ferro-alloys	1,476	1,018	1,142	1,464	1,990	979
Ingots, blooms, billets	57,835	257,322	219,732	134,003	214,439	420,298
Old and scrap	81,097	88,131	42,920	96,763	50,250	161,518
Norway—						
Pig-iron	8,352	10,036	8,679	12,100	17,505	15,400
Ferro-alloys	317	212	274	2,101	486	2,461
Ingots, blooms, billets	8,376	76,022	77,808	80,932	68,898	55,722
Old and scrap	43,490	33,398	26,885	60,471	38,486	23,642
Poland—						
Pig-iron	1,000	63,186	308,500	780,541	763,184	683,136
Ferro-alloys	1,000	1,884	2,504	1,819	3,855	5,836
Scrap	n.a.	1,128	1,690	2,811	3,787	2,999
Portugal—						
Iron and steel ingots	1,223	224	131	1,105	3,228	39
Old and scrap	1,108	1,340	1,371	4,597	4,246	4,501

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

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

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Roumania—						
Ferro-alloys	34,800	33,300	42,300	51,800	50,600	<i>n.a.</i>
Spain—						
Pig-iron	3,670	3,204	1,801	15,242	14,167	13,474
Ferro-manganese	1,397	1,483	1,610	1,558	1,324	949
Other ferro-alloys	2,670	3,468	5,252	5,322	6,099	4,161
Ingots and blooms	172,545	138,083	271,775	936,868	597,585	677,387
Old and scrap	301,751	145,188	303,755	423,961	376,939	345,758
Sweden—						
Pig-iron	178,431	185,024	225,753	330,193	418,530	230,830
Sponge iron	478	854	—	—	49	—
Spiegeleisen	100	200	167	492	—	108
Ferro-manganese	9,982	12,170	12,347	16,052	22,727	20,834
Ferro-chrome	3,060	5,059	7,516	23,407	16,889	13,744
Ferro-silicon and ferro-silico-manganese	9,628	14,631	11,984	15,430	15,560	15,437
Ferro-tungsten	260	256	402	693	709	380
Other ferro-alloys	1,289	3,568	6,775	12,770	15,897	10,910
Blooms, billets, etc.	4,814	6,862	5,497	23,361	11,622	9,796
Old and scrap	28,946	121,059	235,680	244,348	215,562	92,963
Switzerland—						
Pig-iron	81,618	63,997	53,483	61,656	59,698	51,881
Ferro-alloys	9,118	13,019	12,798	12,971	16,266	10,930
Ingots, blooms, billets	278,244	299,047	214,904	185,767	166,442	156,999
Old, filings and scrap	37,900	10,998	5,307	4,923	52,107	22,436
U.S.S.R.—						
Pig-iron	138,800	226,000	192,300	145,600	136,300	151,568
Ferro-alloys	12,200	12,200	2,900	5,900	7,200	7,086
Ingots	121,800	55,300	76,000	30,100	—	—
Yugoslavia—						
Pig-iron	112,468	78,791	187,952	221,336	240,579	138,700
Ferro-alloys	1,030	1,460	1,449	1,971	1,559	1,597
Ingots	3,329	20,302	3,723	26,078	44,406	84,016
Scrap	78,421	48,026	118,572	97,495	118,487	32,427
Egypt—						
Pig-iron and spiegeleisen	121,231	49,158	46,253	129,182	73,294	<i>n.a.</i>
Ferro-alloys	4,680	5,021	3,751	7,277	4,461	<i>n.a.</i>
Ingots, billets, etc.	16,851	<i>n.a.</i>	105,045	40,038	104,442	<i>n.a.</i>
Scrap	26,244	50,962	43,653	29,767	139,465	<i>n.a.</i>
Morocco—						
Pig-iron	863	1,408	1,046	880	1,034	923
Ferro-alloys	189	232	222	289	240	193
Scrap, etc.	409	342	44	75	81	5
South Africa—						
Pig-iron and steel ingots	148	359	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ferro-silicon	453	843	1,822	1,335	1,393	1,673
Other ferro-alloys	417	141	234	265	308	288
Sudan—						
Crude iron and steel	49,806	<i>n.a.</i>	<i>n.a.</i>	56	<i>n.a.</i>	39
Tunisia—						
Pig-iron	120	99	480	605	72	104
Old and scrap	12	545	103	104	36	64
Cuba—						
Pig-iron	42,836	24,461	25,700	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ferro-alloys	705	633	304	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Honduras—						
Ingots, blooms, etc.	<i>n.a.</i>	950	1,865	3,953	5,884	10,636
Mexico—						
Pig-iron	—	38	546	(a) 29,792	(a) 34,480	(a) 9,787
Ferro-manganese	97	530	424	326	308	423
Other ferro-alloys	1,415	1,413	2,547	1,186	972	2,743
Ingots, blooms, billets	7	1	1	29,085	(a) 58,273	(a) 113,993

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

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

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Mexico (cont.)—						
Scrap	269,289	142,531	696,494	} 751,477	709,296	686,227
Tin-plate scrap	12,348	15,163	13,108			
Salvador—						
Ingots, blooms, billets	47	337	1,378	5,326	19,457	24,845
Scrap	411	401	106	667	706	1,003
United States—						
Pig-iron	446,437	576,191	657,564	787,524	1,059,589	540,388
Ferro-chrome	32,428	25,931	23,321	49,216	59,151	34,350
Ferro-manganese	112,156	132,705	189,847	229,767	173,717	149,596
Ferro-silicon	14,580	13,055	11,751	14,726	11,726	13,695
Ferro-titanium	107	37	25	15	—	—
Ferro-tungsten	294	487	108	172	169	151
Sponge iron	5,126	4,338	11,138	15,292	46,558	10,416
Bar-iron, slabs, blooms, etc.	189	237	222	} 185,078	200,300	196,960
Steel ingots, blooms, etc.	152,326	232,460	307,822			
Scrap	215,016	174,449	231,409	172,752	348,397	192,531
Tin-plate scrap	18,832	19,486	20,143	16,954	14,687	12,078
Argentina—						
Pig-iron	12,035	35	22,937	139,686	105,692	94,593
Ferro-manganese	452	178	292	2,294	474	298
Ferro-silicon	706	173	1,143	2,593	878	207
Ingots	270,872	81,147	149,160	599,146	1,336	146,505
Blooms and billets	457,262	160,271	312,691	422,915	302,176	349,209
Old and scrap	70	9,195	141	156	24,980	29,413
Brazil—						
Ferro-manganese	44	58	24	37	319	479
Ferro-silicon	160	82	85	44	538	353
Ferro-chrome	895	985	472	243	1,174	777
Other ferro-alloys	304	113	210	243	677	188
Chile—						
Pig-iron	} 100	6	74	939	n.a.	n.a.
Ferro-alloys						
Colombia—						
Pig-iron	9	—	—	633	1,302	1,327
Ingots, etc.	—	1,124	—	} 16,682	35,046	n.a.
Blooms, billets, etc.	4,867	10	44,658			
Ferro-alloys	1,855	3,634	3,447	2,609	3,322	2,628
Peru—						
Pig-iron	298	81	1,053	168	n.a.	214
Ferro-alloys	371	429	620	1,049	1,454	1,218
Uruguay—						
Ingots etc.	n.a.	n.a.	n.a.	26,094	35,422	23,246
Ferro-alloys	n.a.	n.a.	n.a.	233	154	195
Venezuela—						
Pig-iron	741	6,355	97	1,263	161	62
Ferro-alloys	4,556	1,973	3,959	8,939	5,850	3,527
Scrap	11,000	n.a.	n.a.	5,781	4,008	4,635
Ingots, blooms and billets	43,225	6,503	1,007	1,976	363	5,222
Formosa—						
Blooms, billets, etc.	10,956	994	3,007	6,234	14,298	n.a.
Ferro-alloys	600	125	240	178	329	n.a.
Old and scrap	291,292	170,944	246,196	432,437	268,138	n.a.
Iran (a)—						
Pig-iron	6,586	2,591	19,045	20,796	9,210	22,305
Old and scrap	2,897	5,012	5,547	5,972	4,307	5,088
Israel—						
Pig-iron	18,240	19,854	42,748	11,376	9,918	3,994
Spiegeleisen	1,676	984	980	n.a.	n.a.	n.a.
Ferro-alloys	4,471	4,467	2,106	1,091	475	546

(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	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES (cont.)						
Japan—						
Pig-iron	1,424,473	1,524,730	3,305,559	2,582,652	2,814,460	6,347,989
Ferro-alloys	6,541	2,081	25,303	8,932	3,056	72,165
Ingots, blooms, billets..	113,727	4,206	7,299	1,977	4,452	278,554
Old and scrap	3,577,393	4,518,587	5,018,222	3,352,764	3,478,335	6,602,009
Jordan—						
Ingots, blooms, billets..	34,702	40,858	43,122	49,301	64,613	66,981
Korea (South)—						
Pig-iron	<i>n.a.</i>	2,276	18,488	9,106	50,418	45,682
Ferro-alloys	5,385	4,778	3,081	417	170	10,424
Scrap	<i>n.a.</i>	60,074	43,779	75,911	192,534	308,129
Ingots, blooms, etc. ..	1,465	43,719	25,207	13,146	56,965	41,642
Lebanon—						
Pig-iron	4,030	6,016	7,037	10,697	10,207	5,110
Ferro-alloys	303	540	1,274	552	69	18
Old and scrap	1,672	2,665	11,406	5,261	689	2,133
Ingots, blooms, etc. ..	<i>n.a.</i>	41,420	29,139	31,975	72,311	85,049
Philippine Republic—						
Pig-iron	10,945	9,944	20,758	14,325	<i>n.a.</i>	<i>n.a.</i>
Ferro-alloys	1,098	958	1,959	1,428	<i>n.a.</i>	<i>n.a.</i>
Ingots, blooms, billets..	2,237	30,315	65,265	102,157	<i>n.a.</i>	<i>n.a.</i>
Syria—						
Pig-iron	1,414	968	1,913	311	1,308	1,038
Scrap	1,952	2,086	1,626	1,560	931	312
Thailand—						
Pig-iron	296	298	—	90	694	950
Ferro-alloys	602	607	1,122	1,000	1,829	1,706
Turkey—						
Pig-iron	8,033	12,819	27,040	25,237	21,453	20,977
Ferro-alloys	4,400	1,077	6,258	8,359	10,376	7,615
Blooms, billets, etc. ..	8,079	73,695	88,333	99,919	175,036	124,463
Scrap	939	9,535	25,384	28,577	31,476	38,411

LEAD
PRODUCTION OF LEAD ORE
(Metal content)

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom ..	903	1,600	1,500	2,400	2,900	3,200
Nigeria (a) ..	—	—	—	700	690	n.a.
Rhodesia ..	—	—	—	—	—	n.a.
Tanzania (c) ..	—	—	—	—	—	—
Zambia (b) ..	14,592	19,300	12,953	21,008	18,464	19,100
Canada (d) ..	192,258	179,611	181,890	260,542	267,520	283,984
India ..	4,523	4,248	4,421	3,918	3,675	3,932
Australia ..	370,110	410,291	374,856	362,137	364,898	374,799
TOTAL ..	582,386	615,100	575,600	650,700	657,500	685,700
Irish Republic ..	—	—	—	2,311	37,481	58,550
OTHER COUNTRIES						
Austria ..	5,887	5,442	5,830	5,798	5,595	5,549
Bulgaria ..	92,900	87,500	89,800	89,600	(e) 100,000	101,000
Czechoslovakia (e) ..	13,300	13,300	13,300	14,000	14,000	14,000
Finland (f) ..	2,822	1,127	1,860	6,207	4,560	(e) 4,100
France ..	14,050	8,263	11,997	17,766	26,331	26,900
Germany—						
Federal Republic ..	48,968	51,069	48,164	47,880	54,804	58,704
East (g) ..	7,000	10,000	10,000	10,000	10,000	11,000
Greece ..	12,597	8,709	7,999	r 9,485	9,596	8,200
Hungary ..	900	1,000	1,200	1,400	(e) 1,400	n.a.
Italy ..	42,188	r 32,274	30,622	31,951	32,209	38,100
Norway ..	2,815	2,944	3,522	3,448	3,470	3,268
Poland ..	37,300	38,100	37,700	40,500	44,400	44,000
Portugal ..	43	220	193	150	1,688	1,569
Roumania (b) (g) ..	12,000	12,000	12,000	15,000	20,000	20,000
Spain ..	69,877	61,212	57,363	55,745	31,035	61,710
Sweden ..	66,715	69,904	66,404	67,861	69,766	72,456
U.S.S.R. (b) (g) ..	400,000	400,000	400,000	410,000	410,000	400,000
Yugoslavia ..	100,383	99,972	99,991	104,571	101,006	106,371
Algeria ..	8,897	(g) 8,000	9,514	10,275	4,872	3,523
Congo (Republic of) ..	329	325	2,135	(e) 2,800	(e) 3,500	(e) 3,500
Egypt (e) ..	530	500	—	—	15	n.a.
Morocco ..	88,681	72,804	70,164	75,893	78,360	76,466
South Africa ..	5	14	—	3	—	18
South West Africa ..	73,038	81,000	94,730	86,000	85,000	(g) 80,000
Tunisia ..	12,864	13,620	12,450	15,620	13,965	12,665
Greenland ..	795	—	—	—	—	—
Guatemala (f) ..	953	735	(e) 500	668	460	(e) 590
Honduras ..	5,823	(e) 8,200	7,366	9,502	10,899	11,500
Mexico (f) ..	190,245	186,986	172,063	167,406	179,195	165,048
United States (f) ..	211,568	226,222	255,366	268,880	292,293	282,974
Argentina ..	29,113	26,047	25,515	29,178	29,017	31,000
Bolivia (h) ..	18,184	19,622	16,951	16,404	19,815	19,623
Brazil (e) ..	15,000	17,100	14,500	14,500	22,000	19,000

(a) Excluding native production.

(b) Smelter.

(c) Exports.

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

(e) United States Bureau of Mines' estimate.

(f) Amount estimated as recoverable.

(g) Estimated.

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

PRODUCTION OF LEAD ORE (cont.)

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Chile	1,378	1,135	989	1,000	1,000	400
Colombia	(c) 392	295	476	453	588	n.a.
Ecuador	122	159	137	112	68	—
Peru (a)	126,152	144,882	148,294	151,906	142,474	155,694
Burma	20,000	19,700	18,500	r 19,700	18,200	14,800
China (d)	90,000	100,000	100,000	100,000	100,000	90,000
Iran (d) (e)	10,000	10,000	15,000	17,000	20,000	n.a.
Japan	52,611	51,884	53,218	54,062	62,099	62,598
Korea (South)	1,400	1,900	3,300	4,400	6,800	8,700
Korea (North) (b)	50,000	50,000	55,000	60,000	60,000	65,000
Philippine Republic	81	70	102	102	90	88
Thailand	2,500	2,200	3,600	5,500	6,600	3,500
Turkey	3,838	976	1,600	1,655	921	2,321
TOTAL	1,900,000	1,900,000	2,000,000	2,000,000	2,100,000	2,200,000
WORLD'S TOTAL	2,500,000	2,600,000	2,500,000	2,700,000	2,800,000	2,900,000

- (a) Amount estimated as recoverable.
- (b) Estimated.
- (c) Imports into the United States.
- (d) United States Bureau of Mines' estimate.
- (e) Years ended March 20 of year following that stated.

METAL PRODUCTION OF LEAD

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom (h) ..	29,152	27,942	24,428	22,594	15,890	26,400
Zambia	14,592	19,300	12,953	21,008	18,464	18,799
Canada	135,908	138,393	135,154	166,504	165,063	172,530
India	2,804	3,481	3,567	2,347	2,599	2,435
Australia (c) ..	263,235	305,266	281,404	260,213	267,423	290,959
TOTAL	455,691	494,382	457,506	472,666	469,243	511,123
OTHER COUNTRIES						
Austria (b)	11,031	8,820	11,962	11,648	9,509	10,544
Belgium (b) .. .	91,685	96,878	82,001	109,008	91,196	106,097
Bulgaria	43,019	50,521	86,118	91,946	(d) 89,500	90,500
Czechoslovakia (a) ..	14,000	15,000	15,000	20,000	20,000	20,000
France	69,452	76,401	88,372	96,803	106,922	112,209
Germany—Federal ..	125,363	108,496	105,805	102,388	107,894	134,152
do. East (a) (b) ..	25,000	25,000	25,000	25,000	25,000	25,000
Greece	4,392	3,500	5,000	(d) 5,100	5,400	6,400
Hungary	500	400	200	200	(d) 200	n.a.
Italy	38,127	41,275	37,576	38,803	52,709	59,544
Norway	—	—	4,000	1,700	n.a.	1,400
Poland	40,100	38,300	40,800	40,700	42,800	43,600
Portugal	1,988	1,100	1,344	1,287	1,041	1,056
Roumania (a) .. .	12,000	12,000	12,000	15,000	20,000	40,000
Spain	71,131	61,103	57,078	52,965	52,171	53,000
Sweden	38,158	40,124	39,725	39,614	43,010	58,000
U.S.S.R. (a) .. .	400,000	400,000	400,000	410,000	410,000	410,000
Yugoslavia	96,379	102,529	99,489	99,901	95,985	92,368
Morocco	23,762	18,464	18,541	16,960	18,479	21,021
South West Africa ..	—	1,783	47,040	64,992	74,087	(d) 72,000
Tunisia	15,578	12,600	11,890	14,000	14,000	14,000
Guatemala	62	46	74	112	212	70
Mexico	178,734	179,438	167,321	169,677	178,238	128,206
United States (e) ..	335,736	352,439	401,276	373,430	393,513	339,191
Argentina	24,000	23,621	22,637	31,495	21,652	21,652
Bolivia (f)	—	—	1	67	11	13
Brazil	13,423	15,740	12,995	5,232	9,781	4,085
Chile	250	217	—	—	—	—
Peru	67,282	79,845	88,307	85,436	87,360	80,523
Burma	17,110	17,458	17,768	(d) 16,000	(d) 14,000	(d) 13,000
China (a) (b) .. .	85,000	85,000	100,000	100,000	100,000	90,000
Iran (g)	393	(d) 500	369	(d) 400	(d) 400	n.a.
Japan	86,371	93,237	97,788	106,637	116,710	147,604
Korea (North) (a) ..	40,000	40,000	45,000	50,000	50,000	55,000
Turkey	627	1,851	1,929	904	500	(d) 1,161
TOTAL	2,000,000	2,000,000	2,100,000	2,200,000	2,300,000	2,200,000
WORLD'S TOTAL ..	2,400,000	2,500,000	2,600,000	2,600,000	2,700,000	2,700,000

(a) Estimated.

(b) Including secondary metal.

(c) Including lead in base bullion as follows:

Year	Long tons	Year	Long tons
1962	73,110	1965	66,907
1963	80,661	1966	74,295
1964	78,304	1967	100,264

(d) United States Bureau of Mines' estimate.

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

Year	Long tons	Year	Long tons
1962	396,609	1965	514,214
1963	440,599	1966	511,459
1964	483,555	1967	494,439

(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	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Unwrought	32,076	38,657	35,781	37,599	34,959	61,028
do. alloys	3,570	3,657	3,729	4,810	8,013	10,153
Semi-manufactures (a)	2,049	1,963	1,887	1,827	1,740	1,901
White lead	3,614	1,690	1,510	1,146	1,171	920
Red lead, etc.	3,928	4,050	4,269	4,699	4,757	5,145
Nigeria—						
Ore and concentrates ..	610	195	938	1,575	1,282	908
Zambia (c)—						
Unwrought	13,916	14,029	13,177	15,401	24,265	17,141
Canada—						
Ore (Pb content)	53,120	47,996	71,747	95,504	100,834	112,673
Unwrought	112,323	86,736	85,596	115,237	95,061	118,143
Scrap (a)	1,589	3,561	4,712	8,214	4,005	5,387
Hong Kong—						
Unwrought (a)	20	—	—	—	—	—
Scrap	45	13	4	110	379	892
Singapore—						
Semi-manufactures (a)	141	147	193	214	368	238
Australia (b)—						
Ores and concentrates (Pb content)	59,802	106,289	95,928	74,104	69,464	81,830
Base bullion (Pb content)	46,140	77,564	82,715	56,380	89,140	80,889
Unwrought	199,942	169,264	169,035	151,211	159,811	152,145
do. alloys	1,390	1,495	6,829	2,701	4,370	3,311
Scrap (a)	6	73	2,547	2,575	1,642	97
Semi-manufactures ..	351	1,106	2,226	2,881	1,248	287
Red and white lead, etc.	2,468	2,373	1,981	2,503	2,072	1,419
Irish Republic—						
Ore and concentrates ..	—	—	—	—	87,178	133,435
Scrap	912	283	310	871	796	401
OTHER COUNTRIES						
Austria—						
Unwrought (a)	2,680	1,733	3,751	2,719	1,950	2,690
Scrap	—	6	14	19	1	66
Red and white lead, etc.	611	1,078	655	170	1,522	1,310
Belgium-Luxemburg						
E.U.—						
Ore	—	7	590	259	6,418	1,034
Unwrought	57,781	63,833	41,769	61,598	49,832	48,254
do. alloys	2,923	5,610	7,061	9,078	6,219	8,899
Scrap	2,031	2,088	3,298	2,204	2,228	2,226
Semi-manufactures (a)	6,994	6,351	6,209	7,739	7,986	7,164
Red and white lead, etc.	4,922	4,406	3,682	3,605	5,147	5,718

*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 1962 and 1963 relate to Rhodesia and Nyasaland.

EXPORTS OF LEAD, ETC. (cont.)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Denmark—						
Unwrought	1,091	1,443	2,623	3,209	2,882	2,247
do. alloys	3,267	2,566	2,188	1,403	2,762	3,341
Scrap	—	—	—	5	—	20
Semi-manufactures (a)	218	314	303	272	144	39
Finland—						
Unwrought (a) ..	57	2	67	—	1	1
France—						
Ore	4,837	123	4,976	3,130	1,613	3,833
Unwrought	3,408	2,792	3,316	10,532	6,229	15,171
do. alloys	1,993	1,340	2,570	4,156	2,849	2,567
Scrap	7,432	8,237	9,568	11,939	2,240	9,463
Semi-manufactures (a)	757	709	1,376	1,137	988	886
Red and white lead, etc.	4,809	4,897	6,334	5,784	7,073	7,661
Germany (Federal)—						
Ore	5	10,054	941	6,918	3,870	5,548
Unwrought (a) ..	22,482	17,684	21,251	12,629	40,897	79,081
Scrap (a)	5,066	8,690	9,215	14,639	25,620	19,854
Semi-manufactures (a)	3,268	2,950	3,855	5,432	8,678	7,070
Red and white lead ..	9,884	9,943	9,334	8,147	7,963	9,325
Greece—						
Ore	12,066	9,430	6,800	10,273	10,088	10,937
Italy—						
Ore	5,442	4,370	5,321	4,588	2,860	3,403
Unwrought (a) ..	89	112	190	125	101	18
Semi-manufactures (a)	46	400	53	61	153	245
Red and white lead ..	1,586	942	1,371	1,546	1,678	258
Netherlands—						
Unwrought	5,859	5,381	7,243	7,595	7,912	6,291
do. alloys	1,207	1,843	1,827	2,088	3,516	4,914
Scrap (a)	2,683	3,196	8,297	7,484	4,599	6,545
Semi-manufactures (a)	2,477	2,882	1,817	1,230	2,006	1,981
Red and white lead ..	2,038	1,664	1,502	1,467	2,406	2,947
Norway—						
Ore	5,070	3,378	7,338	5,810	7,293	7,006
Unwrought (a) ..	251	183	171	354	576	524
Semi-manufactures (a)	341	412	338	275	255	192
Scrap	2,369	2,692	3,297	2,898	2,944	3,952
Poland—						
Concentrates	n.a.	5,814	6,042	12,170	16,025	18,604
Portugal—						
Unwrought (a) ..	5	11	13	34	31	29
Semi-manufactures (a)	22	37	52	88	100	157
Red and white lead ..	41	10	133	72	98	99
Spain—						
Ore	533	20	—	—	—	—
Unwrought (a) ..	28,791	11,444	1,879	312	153	16
Semi-manufactures (a)	152	42	32	20	19	20
Sweden—						
Ore	41,966	41,385	48,282	40,814	44,141	35,355
Unwrought	12,686	11,820	6,396	8,109	9,795	13,579
do. alloys	1,567	2,111	1,766	905	200	37
Scrap	52	170	238	158	91	49
Semi-manufactures (a)	233	27	19	25	38	4
Red and white lead, etc.	1,352	1,469	1,879	1,572	1,506	1,932
Switzerland—						
Unwrought	1	15	854	345	36	19
Scrap	2,377	3,405	6,929	10,452	5,396	5,203
Semi-manufactures ..	101	105	83	133	160	252
U.S.S.R.—						
Unwrought	92,900	108,500	94,600	100,900	86,500	85,528

(a) Including alloys.

EXPORTS OF LEAD, ETC. (cont.)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Yugoslavia—						
Unwrought	51,251	51,766	52,577	53,289	51,591	45,393
do. alloys	863	828	4,437	4,907	6,587	8,189
Semi-manufactures (a)	14,424	7,652	4,971	2,921	2,309	1,525
Red lead	411	695	736	704	1,012	351
Algeria—						
Ore	11,972	11,867	10,868	12,594	8,210	<i>n.a.</i>
Congo (Republic of)—						
Ore	—	—	<i>n.a.</i>	—	—	5
Morocco—						
Ore	91,975	135,410	94,272	140,943	90,545	85,066
Unwrought	23,758	11,034	16,806	13,930	15,331	19,744
do. alloys	20	2,760	—	48	—	—
Scrap	—	—	20	40	—	—
South Africa—						
Unwrought	36	375	37,181	57,076	58,908	69,054
Semi-manufactures	—	<i>n.a.</i>	96	65	27	—
South West Africa—						
Complex concentrates (Pb content)	69,115	67,008	34,977	36,143	20,287	<i>n.a.</i>
Lead-vanadium concentrates	7,594	10,510	10,548	9,762	12,286	<i>n.a.</i>
Tunisia—						
Unwrought (a)	14,993	13,069	10,653	14,076	12,797	12,036
Scrap	329					
Greenland—						
Ore	2,290	—	—	—	—	—
Guatemala—						
Ore	2,929	1,392	902	29	851	198
Honduras—						
Ore and concentrates	8,438	9,743	10,223	15,452	8,236	10
Mexico—						
Ores and concentrates	4,344	2,894	3,125	<i>n.a.</i>	2,454	905
Unwrought—						
Refined	121,557	122,433	91,943	95,199	97,003	83,440
Base bullion	10,408	11,752	10,983	10,202	14,991	11,893
Antimonial	335	368	363	<i>n.a.</i>	127	16
Semi-manufactures	—	—	375	<i>n.a.</i>	—	—
Red and white lead	22,356	29,114	32,131	32,836	31,048	33,393
United States—						
Ore, mattes and base bullion (Pb content)	2,588	4	17	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Unwrought (a)	1,882	972	9,470	5,143	3,114	3,806
Scrap	2,197	2,162	11,739	3,387	444	351
Semi-manufactures (a)	836	710	1,189	1,830	1,739	2,030
Red and white lead, etc.	1,714	<i>n.a.</i>	1,500	2,041	2,321	1,705
Argentina—						
Ore	—	266	309	150	215	56
Unwrought	1	2	—	—	—	—
Bolivia—						
Ore, etc. (Pb content)	18,184	19,622	16,950	16,337	19,815	19,623
Unwrought	—	—	1	67	11	13
Brazil—						
Ore	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	12,721	4,921	<i>n.a.</i>
Chile—						
Ore and concentrates	2,128	2,819	1,601	433	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Ore	—	—	216	714	1,117	423
Ecuador—						
Concentrates	<i>n.a.</i>	997	2,455	696	<i>n.a.</i>	<i>n.a.</i>

(a) Including alloys.

EXPORTS OF LEAD, ETC. (cont.)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Peru—						
Ore and concentrates (Pb content)	125,901	64,496	63,604	64,523	64,865	138,478
Unwrought (Pb content)						
Refined	71,734	54,103	100,451	84,052	79,553	77,932
Unrefined	224	37	48	53	n.a.	n.a.
Burma—						
Ore	450	576	360	162	n.a.	n.a.
Unwrought	18,643	16,579	11,263	11,778	n.a.	n.a.
do. alloys	468	486	854	227	n.a.	n.a.
Iran (b)—						
Ore	30,045	28,048	43,590	50,737	44,225	46,735
Japan—						
Unwrought (a)	68	108	313	8,406	7,430	867
Semi-manufactures (a)	339	3,727	968	2,947	325	6,986
Red lead	17	4	12	219	283	21
Korea (South)—						
Ore	1,420	4,903	10,817	6,978	11,586	12,619
Thailand—						
Ore	4,262	4,998	7,022	10,367	12,209	9,074
Turkey—						
Ore	2,411	5,008	2,500	1,476	4,489	3,476

(a) Including alloys.

(b) Years ended March 20 following that stated.

IMPORTS OF LEAD, ETC.*

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore and concentrates (Pb content) (c) ..	26,647	25,404	29,258	20,829	21,983	24,551
Unwrought (a) ..	180,282	179,622	189,767	169,170	203,863	176,913
Scrap (a) ..	2,135	1,593	4,173	2,672	2,821	2,679
Semi-manufactures (a)	203	232	202	17	77	424
Channel Islands—						
Unwrought and semi-manufactures (a) ..	139	78	1,262	184	111	1,581
Ghana—						
Unwrought (a) ..	40	18	3	10	4	1
Semi-manufactures (a)	235	383	36	455	1,330	379
Kenya—						
Unwrought (a) ..	119	104	94	200	197	299
Semi-manufactures (a)	17	7	10	1	10	9
Mauritius—						
Unwrought (a) ..	6	1	28	13	24	6
Semi-manufactures (a)	34	25	29	28	36	57
Nigeria—						
Unwrought and semi-manufactures (a) ..	1,179	414	1,123	519	149	456
Rhodesia (d)—						
Semi-manufactures (a)	67	84	728	836	n.a.	n.a.
Red and white lead, etc.	127	117	n.a.	n.a.	n.a.	n.a.
Sierra Leone—						
Semi-manufactures (a)	45	36	30	44	44	n.a.
Tanzania—						
Unwrought (a) ..	21	64	22	55	26	24
Semi-manufactures (a)	10	6	6	3	11	5
Uganda—						
Unwrought (a) ..	24	8	43	56	105	118
Semi-manufactures (a)	9	5	12	14	12	2
Barbados—						
Unwrought (a) ..	11	4	10	(b) 56	(b) 25	—
Semi-manufactures (a)	35	80	63	107	117	145
Jamaica—						
Unwrought (a) ..	110	134	156	111	47	29
Semi-manufactures (a)	53	76	85	93	76	53
Trinidad and Tobago—						
Unwrought (a) ..	2	9	4	7	2	60
Semi-manufactures (a)	46	119	108	39	56	19
Red and white lead, etc.	13	9	13	13	11	30
Canada—						
Unwrought ..	516	1,555	65	63	559	391
Scrap ..	41	49	n.a.	n.a.	n.a.	n.a.
Semi-manufactures, etc.	61	87	n.a.	230	203	271
Red and white lead, etc.	921	1,122	1,357	1,058	1,342	2,179
Guyana—						
Semi-manufactures (a)	19	n.a.	17	34	47	40
Ceylon—						
Unwrought (a) ..	156	428	243	543	364	525
Semi-manufactures (a)	91	4	34	128	17	22
Cyprus—						
Semi-manufactures (a)	164	63	81	62	277	96
Hong Kong—						
Unwrought (a) ..	(b) 166	(b) 409	(b) 355	52	366	321
Scrap ..	1	19	19	16	20	3
Semi-manufactures (a)	106	112	227	117	190	103
Red and white lead ..	—	—	77	132	123	104

*See footnote on p. 180 concerning the descriptions "unwrought" lead and "semi-manufactures" used in these tables.

(a) Including alloys.

(b) Excess of re-exports.

(c) Source: World Bureau of Metal Statistics.

(d) Figures for the years 1962 and 1963 relate to Rhodesia and Nyasaland.

IMPORTS OF LEAD, ETC. (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
<i>(cont.)</i>						
India (b)—						
Ore	30	9	6	27	17	27
Unwrought	33,088	35,955	32,514	33,833	47,750	33,923
do. alloys	346	511	732	324	1,225	221
Semi-manufactures (a)	96	166	322	499	323	249
Malaysia (West)—						
Unwrought (a) ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	185	184	153
Semi-manufactures (a)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	867	440	301
Pakistan—						
Ore	233	255	333	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Unwrought (a) ..	<i>n.a.</i>	1,126	6,063	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Semi-manufactures (a)	<i>n.a.</i>	15	96	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Litharge, red and white lead, etc. ..	148	124	90	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sabah—						
Semi-manufactures (a)	24	90	31	45	38	52
Singapore—						
Semi-manufactures (a)	118	135	88	135	177	191
Australia (c)—						
Unwrought and semi-manufactures (a) ..	4,296	2,283	235	440	(d) 69	(d) 43
Red and white lead, etc.	137	97	108	170	167	13
Fiji—						
Unwrought and semi-manufactures (a) ..	78	80	89	79	52	68
New Zealand—						
Unwrought (a) ..	4,379	} (c) 5,099	{ (c) 5,773	(c) 6,110	(c) 7,280	(c) 5,616
Semi-manufactures (a)	111			(c) 179	(c) 28	(c) 56	(c) 23
Red and white lead, etc.	1,056	(c) 1,156	(c) 502	(c) 487	(c) 955	(c) 870
Irish Republic—						
Unwrought (a) ..	493	614	420	364	330	334
Semi-manufactures (a)	44	87	92	97	100	82
OTHER COUNTRIES						
Austria—						
Ore	4,217	3,642	5,354	4,458	2,559	3,051
Unwrought (a) ..	12,647	12,698	12,027	12,244	12,700	12,791
Scrap	65	43	449	489	1,101	953
Semi-manufactures (a)	232	306	389	198	222	515
Belgium-Luxemburg						
E.U.—						
Ore	149,660	123,621	100,008	194,331	181,622	128,103
Unwrought	19,048	18,028	16,210	13,860	13,112	6,683
do. alloys	754	670	773	544	436	1,331
Scrap	3,522	3,988	17,441	20,634	13,289	8,443
Semi-manufactures (a)	632	812	823	900	1,327	908
Red and white lead, etc.	1,139	1,069	1,268	1,627	2,318	2,086
Denmark—						
Unwrought	15,412	13,147	13,819	13,679	12,699	10,546
do. alloys	308	581	1,199	592	1,424	623
Scrap	3,789	3,631	4,574	5,411	5,705	7,824
Semi-manufactures (a)	625	871	794	719	526	621
Red and white lead ..	1,637	1,540	1,485	513	517	360

(a) Including alloys.

(c) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated. (d) Owing to reclassification not strictly comparable with earlier years.

IMPORTS OF LEAD, ETC. (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Finland—						
Unwrought (a) ..	10,655	15,254	10,853	10,063	14,165	8,394
Semi-manufactures (a)	969	685	643	541	1,213	912
Red and white lead, etc.	548	570	514	570	530	473
France—						
Ore	96,096	130,182	141,813	128,328	119,109	126,427
Unwrought	63,725	64,404	54,729	26,121	32,679	35,403
do. alloys	2,602	2,316	2,516	1,543	2,162	3,575
Scrap	2,313	3,938	1,425	2,902	4,082	4,444
Semi-manufactures (a)	164	136	343	475	687	737
Red and white lead, etc.	2,511	2,764	2,172	2,605	2,129	2,133
Germany (Federal)—						
Ore	142,462	107,473	107,333	137,294	185,610	219,687
Unwrought (a) ..	98,382	98,974	98,468	114,835	86,638	80,187
Scrap (a)	1,265	1,226	10,184	5,470	1,571	2,581
Semi-manufactures (a)	1,214	1,815	2,115	2,025	2,090	1,569
Red and white lead, etc.	4,429	3,355	3,613	3,739	2,817	2,548
Greece—						
Ore	5,010	4,203	3,887	6,823	6,951	8,158
Unwrought	1,722	495	286	967	2,644	1,842
Semi-manufactures (a)	86	185	90	345	104	<i>n.a.</i>
Red and White lead ..	553	553	595	474	822	923
Hungary—						
Unwrought	10,286	10,951	12,231	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Iceland—						
Unwrought	278	255	262	232	142	155
Semi-manufactures (a)	30	70	85	72	100	90
Red and white lead ..	11	19	14	7	6	6
Italy—						
Ore	8,027	20,635	9,218	32,244	19,677	20,521
Unwrought (a) ..	47,189	38,350	36,047	29,778	45,113	58,652
Scrap	20,298	21,044	15,969	30,384	24,598	29,752
Semi-manufactures (a)	4,656	3,752	3,251	3,177	2,578	1,758
Red and white lead ..	2,158	3,839	4,251	3,677	2,894	4,864
Netherlands—						
Ore	3	2	—	707	5	11
Unwrought	39,738	31,846	35,948	42,145	39,441	41,085
do. alloys	10,007	8,086	12,270	12,681	11,539	13,685
Scrap (a)	1,178	3,649	5,098	3,402	2,930	5,135
Semi-manufactures (a)	2,322	2,672	3,037	3,063	2,992	3,474
Red and white lead ..	6,545	4,029	4,414	4,291	4,180	4,708
Norway—						
Unwrought	7,990	9,348	8,017	7,617	8,699	9,377
do. alloys	1,381	1,692	2,129	1,720	2,507	2,172
Semi-manufactures (a)	1,334	1,041	1,096	1,272	1,416	1,012
Red and white lead ..	714	847	785	936	1,025	1,013
Poland—						
Unwrought	<i>n.a.</i>	13,352	20,532	19,163	17,122	16,819
Portugal—						
Unwrought (a) ..	6,385	7,784	8,909	6,665	8,277	7,509
Scrap	47	44	94	73	131	88
Semi-manufactures (a)	4	10	26	72	77	17
Red and white lead, etc.	145	119	86	93	59	82
Spain—						
Ore	—	—	—	210	3,708	—
Unwrought	20	1	1,632	22,706	13,601	456
Scrap	12	15	29	415	887	35
Red and white lead ..	232	350	495	223	95	158
Sweden—						
Unwrought	11,782	6,957	6,382	6,711	6,079	6,498
do. alloys	893	1,133	680	836	774	1,076
Scrap	307	584	409	655	—	18
Semi-manufactures (a)	2,333	2,038	2,160	1,973	1,828	1,492
Red and white lead ..	1,711	1,404	1,569	2,302	1,787	1,655

(a) Including alloys.

IMPORTS OF LEAD, ETC. (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Switzerland—						
Unwrought	23,738	19,529	21,063	23,547	20,593	19,918
Semi-manufactures	677	560	439	329	509	558
Red and white lead	631	598	770	823	518	552
U.S.S.R.—						
Unwrought	25,700	38,200	49,100	47,100	30,600	31,789
Yugoslavia—						
Ore	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	12,536	6,676
Unwrought	738	2,998	1,546	312	1,564	1,351
Scrap	<i>n.a.</i>	<i>n.a.</i>	2,194	2,225	3,413	1,740
Angola—						
Semi-manufactures	59	74	85	138	124	179
Red and white lead	39	54	50	39	48	49
Egypt—						
Unwrought and scrap	5,993	5,241	5,529	1,357	2,795	<i>n.a.</i>
Semi-manufactures	37	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Red and white lead	1,757	<i>n.a.</i>	1,104	1,269	<i>n.a.</i>	<i>n.a.</i>
Malagasy Republic—						
Unwrought (a)	81	126	112	123	211	135
Semi-manufactures (a)	58	50	33	51	48	64
Red and white lead	18	25	17	11	10	15
Morocco—						
Semi-manufactures (a)	86	90	48	36	36	47
Red and white lead	160	110	105	173	144	145
Mozambique—						
Semi-manufactures (a)	35	109	120	144	148	<i>n.a.</i>
Red and white lead	27	42	35	24	37	<i>n.a.</i>
South Africa—						
Unwrought	13,431	15,241	9,624	8,471	4,631	5,237
Semi-manufactures	75	48	98	1,408	2,610	1,196
Red and white lead	89	80	(b) 72	(b) 74	(b) 47	(a) —
Sudan—						
Semi-manufactures	41	144	300	129	144	63
Tunisia—						
Ore	1	8	6	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Costa Rica—						
Unwrought (a)	54	183	40	79	34	30
Cuba—						
Ore	2,143	2,908	2,536	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Semi-manufactures	258	183	166	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Mexico—						
Unwrought	7	9	10	14	9	38
Nicaragua—						
Unwrought	35	50	90	133	210	109
Salvador—						
Unwrought	100	101	56	46	113	150
Semi-manufactures	89	88	135	223	213	219
United States—						
Ore, matte and flue dust						
<i>(Pb content)</i>	118,821	120,040	114,345	115,119	57,009	128,711
Bullion and base bullion						
<i>(Pb content)</i>	1,860	3,355	6,371	505	1,721	511
Unwrought <i>(Pb content)</i>	230,273	196,784	183,530	199,519	255,168	324,640
do. alloys <i>(Pb</i>						
<i>content)</i>	7,626	3,966	4,988			
Scrap <i>(Pb content)</i>	1,856	13,764	1,674			
Semi-manufactures	2,032	2,169	2,890	1,828	1,888	2,100
Red and white lead, etc.	16,530	<i>n.a.</i>	19,085	21,753	24,793	24,937
Argentina—						
Unwrought	801	3,249	1	3	2	—

(a) Including alloys.

(b) Red lead only.

IMPORTS OF LEAD, ETC. (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES (cont.)						
Brazil—						
Unwrought	7,953	15,585	4,149	2,136	5,466	6,405
do. alloys						
Red and white lead ..	354	1,771	425	266	520	874
Chile—						
Unwrought	724	1,536	r 1,774	1,756	n.a.	n.a.
Bars and sheets	182	122	r 57	—	n.a.	n.a.
Red and white lead ..	196	209	r 41	97	n.a.	n.a.
Colombia—						
Unwrought (a)	228	1,275	1,383	468	2,301	1,442
Semi-manufactures (a)	11	43	30	109	194	12
Red and white lead ..	767	998	1,102	638	1,130	1,081
Ecuador—						
Unwrought	152	176	162	209	n.a.	n.a.
Red and white lead ..	93	106	126	123	n.a.	n.a.
Peru—						
Semi-manufactures (a)	48	89	51	30	33	37
Red and white lead ..	40	47	12	34	7	4
Uruguay—						
Unwrought	n.a.	n.a.	n.a.	907	809	1,092
Red and white lead, etc.	n.a.	n.a.	n.a.	164	270	115
Venezuela—						
Unwrought	1,855	2,767	2,721	1,666	4,352	4,896
Semi-manufactures ..	268	147	315	490	711	544
Red and white lead ..	1,575	1,140	656	1,075	697	970
Burma—						
Semi-manufactures (a)	62	5	5	—	n.a.	n.a.
Formosa—						
Unwrought (a)	1,873	2,481	2,443	3,129	3,656	n.a.
Semi-manufactures (a)	24	84	142	74	23	n.a.
Red and white lead, etc.	91	41	25	50	51	n.a.
Iran (b)—						
Unwrought	38	59	367	1,047	2,658	3,315
Semi-manufactures ..	177	26	59	43	29	29
Red and white lead ..	376	506	692	662	840	593
Iraq—						
Semi-manufactures ..	24	58	7	n.a.	n.a.	n.a.
Israel—						
Unwrought	1,314	904	1,131	1,111	1,284	1,178
Scrap	311	14	65	24	9	—
Semi-manufactures ..	100	192	125	695	389	408
Red and white lead ..	538	581	691	683	n.a.	606
Japan—						
Ore	38,005	67,565	50,886	66,185	79,753	128,072
Unwrought	25,781	23,802	67,896	37,665	22,655	17,854
Scrap	781	873	1,409	2,911	470	1,108
Semi-manufactures (a)	4	13	—	34	21	3
Red and white lead ..	1	1	5	4	7	14
Jordan—						
Unwrought	275	281	n.a.	222	772	423
Red lead	n.a.	n.a.	n.a.	117	158	175
Korea (South)—						
Unwrought and semi-manufactures ..	n.a.	3,625	527	1,492	3,551	655
Lebanon—						
Unwrought	274	299	499	655	953	1,252
Semi-manufactures (a)	75	43	40	31	73	53
Philippine Republic—						
Unwrought (a)	3,577	1,911	1,972	3,181	n.a.	n.a.
Semi-manufactures (a)	364	112	421	409	n.a.	n.a.
Red and white lead ..	473	393	96	525	n.a.	n.a.
Syria—						
Unwrought	n.a.	594	351	263	218	374
Red and white lead ..	n.a.	n.a.	112	114	120	56

(a) Including alloys.

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

IMPORTS OF LEAD, ETC. (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES (cont.)						
Thailand—						
Unwrought (a) ..	1,023	674	816	969	1,340	1,598
Semi-manufactures (a) ..	48	130	100	216	102	71
Turkey—						
Unwrought (a) ..	2,103	2,303	1,432	16	2,517	4,495
Scrap	73	93	49	65	156	277
Semi-manufactures (a) ..	99	16	5	6	18	10
Red and white lead ..	450	548	289	119	377	1,236

(a) Including alloys.

LITHIUM MINERALS
PRODUCTION OF LITHIUM MINERALS

Long tons

Producing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Rhodesia—						
Amblygonite	31	46	—	(b) —	<i>n.a.</i>	<i>n.a.</i>
Eucryptite	773	1,039	720	(b) 476	<i>n.a.</i>	<i>n.a.</i>
Lepidolite	18,967	14,426	20,485	(b) 11,867	<i>n.a.</i>	<i>n.a.</i>
Petalite	19,379	26,738	32,544	(b) 20,034	<i>n.a.</i>	<i>n.a.</i>
Spodumene	1,336	1,996	6,219	(b) 10,278	<i>n.a.</i>	<i>n.a.</i>
Uganda—						
Amblygonite	20	47	—	r 75	—	(a) 50
Canada—						
Lithium minerals (<i>Li₂O content</i>)	223	288	472	452	113	252
Australia—						
Petalite	84	390	208	310	933	} 667
Amblygonite	28	20	—	—	—	
Spodumene	24	22	52	—	—	
OTHER COUNTRIES						
Mozambique—						
Lepidolite	270	102	—	75	<i>n.a.</i>	246
Rwanda and Burundi—						
Amblygonite	321	362	290	—	<i>n.a.</i>	<i>n.a.</i>
South Africa—						
Spodumene	1,128	372	160	855	301	—
South West Africa—						
Amblygonite	126	115	12	35	27	<i>n.a.</i>
Lepidolite	1,590	77	363	266	326	<i>n.a.</i>
Petalite	899	772	712	1,189	1,200	<i>n.a.</i>
Argentina—						
Lithium minerals	443	1,413	713	612	266	236
Brazil—						
Amblygonite (a)	—	—	—	25	—	(c) 6,022
Spodumene (a)	148	25	—	6,707	98	49
Surinam—						
Amblygonite (a)	738	507	<i>n.a.</i>	<i>n.a.</i>	<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.

(c) Lithium minerals other than spodumene.

EXPORTS OF LITHIUM MINERALS

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Rhodesia (a)—						
Lithium minerals	29,203	35,931	66,325	49,932	<i>n.a.</i>	<i>n.a.</i>
Uganda—						
Amblygonite	50	—	20	—	70	50
Australia (b)—						
Lithium minerals	<i>n.a.</i>	<i>n.a.</i>	—	—	345	—
OTHER COUNTRIES						
Germany (Federal)—						
Lithium minerals	331	406	621	606	243	148
Mozambique—						
Lepidolite	270	102	<i>n.a.</i>	75	<i>n.a.</i>	<i>n.a.</i>
South Africa—						
Lithium minerals	916	380	335	409	486	—
South West Africa—						
Amblygonite	130	176	—	597	12	<i>n.a.</i>
Lepidolite	1,318	281	484	152	534	<i>n.a.</i>
Petalite	310	681	1,028	991	1,185	<i>n.a.</i>
Brazil—						
Amblygonite	—	—	—	25	—	6,022
Spodumene	148	25	—	6,707	98	49
Surinam—						
Amblygonite	738	507	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

(a) Figures for years 1962 and 1963 relate to Rhodesia and Nyasaland.

(b) Years ended June 30 of that stated.

IMPORTS OF LITHIUM MINERALS*

Long tons

Importing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom (a)	3,400	4,300	10,300	7,000	<i>n.a.</i>	<i>n.a.</i>
OTHER COUNTRIES						
Belgium-Luxemburg E.U.	164	118	90	227	311	635
France	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	4,602	2,498
Germany (Federal)	10,307	9,809	14,701	10,766	9,667	6,207
Italy	17	407	2,347	3,551	12,796	992
Netherlands (a)	3,000	3,200	4,400	6,500	<i>n.a.</i>	<i>n.a.</i>
Spain	9	57	60	130	241	360
United States	27,419	20,056	24,123	10,040	8,268	23,154
Japan (a)	4,000	3,100	7,000	3,500	<i>n.a.</i>	<i>n.a.</i>

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

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

MAGNESITE AND DOLOMITE
PRODUCTION OF MAGNESITE AND DOLOMITE

Long tons

Producing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Dolomite, crude (a) ..	2,700,000	3,000,000	3,700,000	3,800,000	4,200,000	4,700,000
Kenya—						
Magnesite, crude ..	—	257	167	66	667	415
Rhodesia—						
Magnesite, crude ..	10,375	10,774	37,867	35,037	(e) 29,000	n.a.
Tanzania—						
Magnesite, crude ..	—	(c) 84	(c) 487	r 1,404	4,488	2,006
Canada—						
Magnesitic dolomite (b)	n.a.	n.a.	n.a.	69,441	n.a.	n.a.
	£1,143,386	£1,138,999	£1,184,739	£1,330,810	£1,312,306	£1,161,695
Ceylon—						
Dolomite	n.a.	n.a.	n.a.	5,004	n.a.	n.a.
India—						
Magnesite, crude ..	213,938	230,861	204,652	234,936	228,000	242,000
Dolomite	856,294	1,068,300	512,901	953,000	1,037,354	1,125,932
Pakistan—						
Magnesite	300	864	607	515	(e) 724	(e) 2,010
Dolomite	509	n.a.	n.a.	n.a.	n.a.	n.a.
Australia—						
Magnesite, crude ..	62,191	56,946	31,250	26,362	19,556	23,618
Dolomite	180,697	214,339	236,068	258,661	256,008	279,321
New Zealand—						
Magnesite, crude ..	635	781	603	837	557	568
Dolomite	5,748	4,387	9,164	7,556	13,251	8,310
OTHER COUNTRIES						
Austria—						
Magnesite—						
Crude	1,582,022	1,292,054	1,630,411	1,786,933	1,589,135	1,511,061
Caustic (d) ..	130,450	129,961	133,355	133,530	135,663	125,099
do. powder (d) ..	47,925	37,721	55,332	61,690	60,330	48,455
Dead-burned (d) ..	476,524	404,598	513,756	556,958	483,533	442,498
Bricks (d)	270,260	219,540	272,472	277,978	265,125	234,704
Belgium—						
Dolomite—						
Crude	576,760	681,420	894,140	854,020	791,233	938,933
Calcined	291,470	318,450	332,160	312,840	314,075	299,199
Finland—						
Dolomite	90,800	n.a.	n.a.	n.a.	n.a.	n.a.
France—						
Dolomite, crude ..	832,941	935,076	1,102,505	1,279,800	1,363,674	1,444,989
Germany (Federal)—						
Dolomite	n.a.	n.a.	133,478	276,360	159,128	179,259
Greece—						
Magnesite—						
Crude	214,522	262,999	354,513	r 310,226	336,723	468,281
Caustic (d)	67,585	47,335	53,977	48,700	35,952	32,671
Dead-burned (d) ..	28,872	41,648	46,048	63,241	89,235	96,394
Hungary—						
Dolomite	423,966	424,981	474,500	551,000	612,000	640,000
Italy—						
Magnesite, crude ..	8,281	6,707	6,209	3,480	2,560	4,864
Dolomite—						
Metallurgical ..	69,955	r 74,869	80,222	68,474	64,568	n.a.
Refractory, etc. ..	693,604	772,818	821,303	898,714	950,982	n.a.

(a) Estimated.

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

(c) Exports.

(d) Derived from crude shown and not additional.

(e) United States Bureau of Mines' estimate.

PRODUCTION OF MAGNESITE AND DOLOMITE (cont.)

Long tons

Producing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES (cont.)						
Norway— Dolomite	213,811	251,175	444,512	307,000	360,400	433,645
Poland— Magnesite, crude	33,600	26,200	37,400	41,300	<i>n.a.</i>	<i>n.a.</i>
Portugal— Dolomite	3,740	3,858	5,285	2,928	4,466	5,256
Spain— Magnesite	70,260	83,317	91,852	99,057	<i>n.a.</i>	<i>n.a.</i>
Sweden— Dolomite— Crude	50,692	53,499	72,443	89,983	181,318	112,200
Calcined (c)	47,225	54,885	58,066	62,665	61,698	49,400
Yugoslavia— Magnesite, crude	367,465	405,453	489,564	517,634	518,367	418,053
South Africa— Magnesite, crude	91,386	96,704	83,431	85,526	91,828	78,749
United States— Magnesite— Crude	439,706	471,121	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Caustic (a) (b)	77,508	120,426	143,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Dead-burned (a) (b)	514,038	636,370	751,797	800,966	760,829	614,022
Dolomite— Dead-burned (b)	1,658,427	1,740,137	1,935,288	1,942,679	1,958,069	1,679,000
Argentina— Dolomite	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	97,074	137,362	167,091
Brazil— Magnesite	92,275	88,872	92,260	122,673	125,064	107,528
Dolomite	414,673	470,259	325,169	219,684	197,363	221,419
Colombia— Magnesite	100	250	217	190	—	<i>n.a.</i>
Dolomite	2,638	5,000	3,166	11,519	6,378	<i>n.a.</i>
Peru— Dolomite	963	558	1,470	2,169	2,896	4,700
Uruguay— Dolomitic limestone	692	26,383	26,512	20,091	28,483	14,683
Formosa— Dolomite	29,366	30,416	32,168	49,778	50,763	56,072
Japan— Dolomite	1,767,642	1,723,823	1,805,922	1,647,000	1,684,000	2,104,000
Philippine Republic— Dolomite	4,916	5,009	5,138	5,068	4,070	6,687
Turkey— Magnesite	9,586	17,634	38,451	74,393	64,750	83,617
Dolomite	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	364,600	<i>n.a.</i>
New Caledonia— Magnesite	1,157	12	991	743	625	1,396

Magnesite is known to have been produced in Bulgaria, Czechoslovakia, U.S.S.R., Iran, 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) Derived partly from crude shown and partly from other sources, e.g. sea-water, brucite, dolomite.

(b) Sold or used by producers.

(c) Derived partly from crude shown.

PRODUCTION OF MAGNESIUM

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom (a) ..	5,000	4,600	4,700	5,300	3,700	4,000
Canada	7,871	7,951	8,351	9,025	6,003	7,754
OTHER COUNTRIES						
France	2,087	1,715	973	4,180	3,300	4,133
Germany (Federal) (b) ..	500	500	500	500	200	—
Italy	5,614	5,718	5,933	6,213	6,412	6,217
Norway	14,352	17,795	20,604	23,526	25,388	29,973
U.S.S.R. (b)	31,000	31,000	31,000	33,000	34,000	35,000
United States	61,567	67,719	70,971	72,644	71,245	86,970
Japan	2,054	2,401	2,891	3,700	5,200	6,700
WORLD'S TOTAL* ..	130,000	139,000	146,000	157,000	155,000	181,000

*Excluding magnesium known to have been produced in China.

(a) Including re-melt alloys.

(b) "Metallgesellschaft" estimate.

EXPORTS OF MAGNESITE, ETC.*

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Magnesium and alloys..	2,013	(e) 2,967	(e) 2,324	1,740	1,208	1,109
Magnesium compounds	21,397	n.a.	n.a.	n.a.	n.a.	n.a.
Rhodesia (d)—						
Crude and calcined	8,826	9,363	23,395	33,563	n.a.	n.a.
Dolomite	n.a.	n.a.	115	n.a.	n.a.	n.a.
Tanzania—						
Crude	—	84	487	1,025	1,079	1,177
Canada—						
Magnesium	5,867	(£1,217,459)	(£1,311,446)	(£1,478,028)	(£1,144,942)	(£1,247,637)
India (c)—						
Crude and calcined	31,270	34,823	37,466	50,149	29,871	17,796
Chloride	211	106	—	—	5	—
Malaysia (West)—						
Dolomite	n.a.	n.a.	n.a.	1,853	2,150	2,381
Singapore—						
Crude	132	98	638	998	988	1,308
Australia (b)—						
Crude and calcined	2,629	318	731	2,573	2,270	1,889
OTHER COUNTRIES						
Austria—						
Crude	761	413	754	567	406	379
Caustic	95,074	93,080	99,766	97,854	90,084	78,365
Dead-burned	185,998	161,699	233,223	270,915	220,432	180,415
Bricks	231,187	89,133	117,249	100,427	95,479	80,774
Dolomite	15,234	18,358	33,241	41,266	38,136	31,786
Belgium-Luxemburg						
E.U.—						
Crude	—	—	—	12	8	—
Calcined	25	36	43	8	218	1
Carbonate	—	4	—	63	31	63
Chloride	1	1	—	1	6	5
Oxide and hydroxide	1	4	1	81	2	7
Sulphate	15	25	30	22	158	323
Dolomite, crude	212,206	271,599	313,567	369,675	276,291	422,671
do. calcined	166,637	169,707	175,390	173,073	191,538	190,328
Czechoslovakia	116,000	101,000	142,000	190,000	204,000	n.a.
France—						
Crude and calcined	810	435	216	734	225	328
Magnesium metal (a)	62	92	148	132	140	148
Carbonate	823	830	1,391	1,147	1,175	1,160
Chloride	2,662	1,139	1,394	1,017	567	2,703
Oxide and hydroxide	1,589	1,404	1,491	1,429	1,593	1,928
Sulphate	119	85	386	100	165	210
Dolomite, crude	17,085	18,725	21,108	19,575	23,347	52,903
do. calcined	5,835	5,346	3,750	3,821	4,108	4,306
Germany (Federal)—						
Crude and calcined	2,484	3,858	8,132	5,542	6,519	8,821
Magnesium metal	231	427	900	1,135	1,008	304
Carbonate	358	277	456	348	298	244
Chloride	33,807	63,091	72,706	70,920	77,484	82,531
Oxide and hydroxide	1,104	1,574	1,874	2,242	2,727	1,956
Sulphate	52,651	40,299	39,188	39,169	39,727	34,142
Dolomite	83,540	56,597	72,729	89,165	98,338	84,564
Kieserite	159,845	168,346	195,824	206,839	230,344	234,407
Germany (East)—						
Sulphate	20,309	20,297	21,438	24,402	28,414	27,717

* 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 1962 and 1963 relate to Rhodesia and Nyasaland.

(e) Including scrap.

EXPORTS OF MAGNESITE, ETC. (cont.)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Greece—						
Crude	23,065	20,040	20,602	17,887	12,448	16,722
Calcined	79,637	90,249	94,053	115,634	130,549	129,160
Italy—						
Crude	66	19	20	20	11	9
Calcined	100	88	40	70	250	70
Magnesium metal including alloyed	4,491	4,100	5,626	5,826	4,558	3,117
Carbonate	128	138	147	109	74	51
Chloride	17	10	16	5	36	48
Oxide	252	290	348	9,191	23,563	21,947
Dolomite, crude	2,313	11,344	1,526	8,649	15,068	14,851
do. calcined	8,826						8,889
Netherlands—						
Crude	775	802	1,073	1,185	1,318	875
Magnesium metal	245	362	239	289	273	262
Calcined	30,100	35,234	37,150	31,033	27,165	16,840
Chloride	452	533	672	383	284	984
Sulphate	374	716	425	493	550	282
Norway—						
Crude	—	—	—	1	—	—
Magnesium metal	14,526	18,889	22,748	24,608	29,946	29,636
Dolomite, crude	58,834	65,095	76,303	76,547	89,905	89,645
Poland—						
Dolomite	<i>n.a.</i>	2,226	2,426	2,557	2,796	3,300
Spain—						
Crude and calcined	7,733	17,571	28,620	30,382	15,793	10,263
Dolomite, crude	6,036	4,387	614	2,050	3,597	24,986
Sweden—						
Crude and calcined	196	193	156	202	114	61
Dolomite	5,793	3,836	4,373	3,662	3,923	4,576
Bricks	111	441	12	14	4	204
U.S.S.R.—						
Magnesium metal	1,900	2,100	2,800	3,400	8,000	8,400
Yugoslavia—						
Crude	486	3,779	6,055	1,770	—	—
Ground and dead-burned	61,787	84,285	119,744	117,396	101,385	83,141
Bricks	13,651	11,533	25,904	47,054	21,409	22,673
South Africa—						
Crude and calcined	10	—	7,612	2,309	3,302	3,021
Mexico—						
Crude	49	—	—	—	—	—
United States—						
Crude and calcined	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	5,145	6,359	6,953
Dead-burned	64,166	69,312	70,821	63,972	65,420	57,472
Magnesium metal (a)	5,737	2,918	15,010	16,357	13,275	10,705
Dolomite	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	226,282	90,394	100,884
Brazil	4,796	15,477	1,935	12,166	4,580	4,626
Uruguay—						
Dolomite, crude	14,724	10,472	13,717	4,724	14,833	<i>n.a.</i>
Formosa—						
Carbonate	<i>n.a.</i>	525	477	672	633	<i>n.a.</i>
Japan—						
Dolomite	1,403	1,816	2,279	2,241	41,689	3,568
Magnesium metal	50	19	22	72	119	72
Carbonate	2,438	3,334	2,448	3,414	3,433	4,339
Chloride and sulphate	57	145	136	185	451	221
Korea (South)—						
Dolomite	<i>n.a.</i>	4,527	11,810	19,401	12,996	11,404
Turkey—						
Carbonate	3,297	10,437	28,482	34,183	66,008	36,243
Oxide	<i>n.a.</i>	<i>n.a.</i>	97	98	49	315

(a) Including alloys and scrap.

IMPORTS OF MAGNESITE, ETC.*

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Crude and calcined ..	46,833	37,378	85,728	107,745	109,004	60,945
Magnesium (c) ..	5,516	4,086	3,157	4,506	4,777	6,060
Chloride ..	4,930	3,974	6,826	5,079	3,832	4,088
Dolomite ..	n.a.	10,051	12,061	13,768	19,322	21,763
Zambia—						
Crude ..	n.a.	n.a.	n.a.	253	762	n.a.
Salts ..	n.a.	n.a.	n.a.	75	340	632
Canada—						
Calcined and dead-burned ..	24,613	16,644	27,482	32,161	31,087	34,145
Magnesium metal ..	n.a.	n.a.	1,425	1,465	2,685	1,333
do. alloys ..	n.a.	n.a.	165	148	294	184
	(£59,815)	(£60,178)	(£255,000)	(£187,799)	(£301,824)	(£271,064)
Oxide ..	780	681	3,237	812	1,070	887
Carbonate ..			n.a.	n.a.	n.a.	n.a.
Sulphate ..	2,505	3,001	n.a.	n.a.	n.a.	n.a.
Other salts ..	1,889	10,581	n.a.	n.a.	n.a.	n.a.
Bricks ..	(£153,600)	(£71,261)	(£276,825)	(£359,803)	(£545,937)	(£465,501)
Dolomite, calcined ..	n.a.	n.a.	13,387	26,568	15,382	9,318
Trinidad and Tobago—						
Crude ..	39	31	80	83	27	76
Hong Kong—						
Crude ..	59	99	220	236	100	161
Magnesium carbonate ..	—	—	681	570	827	1,302
India (b)—						
Crude and calcined ..	—	—	—	343	—	71
Magnesium metal ..	147	270	157	79	100	123
Carbonate ..	676	439	550	425	144	231
Chloride ..	—	—	—	9	4	—
Oxides ..	43	37	53	136	81	40
Other salts ..	26	69	34	n.a.	n.a.	n.a.
Malaysia (West)—						
Crude ..	n.a.	n.a.	n.a.	72	154	204
Dolomite ..	n.a.	n.a.	n.a.	128	126	145
Pakistan—						
Chloride ..	32	130	140	n.a.	n.a.	n.a.
Sulphate ..	12	n.a.	3	n.a.	n.a.	n.a.
Other salts ..	n.a.	248	41	n.a.	n.a.	n.a.
Singapore—						
Crude ..	25	121	301	527	299	93
Dolomite ..	628	1,038	2,322	1,912	2,185	2,831
Australia (a)—						
Crude and calcined ..	12,558	3,863	50,054	41,673	22,524	17,218
Magnesium metal and powder ..	125	203	489	455	872	1,028
Oxide ..	269	389	255	234	312	3,347
Carbonate ..	135	153	201	257	175	187
Sulphate ..	—	—	218	211	383	—
Dolomite ..	n.a.	n.a.	n.a.	n.a.	411	448
New Zealand—						
Crude ..	302	(a) 146	(a) 174	(a) 167	(a) 279	(a) 267
Magnesium metal ..	n.a.	(a) 23	(a) 21	(a) 84	(a) 14	(a) 2
Sulphate ..	689	(a) 590	(a) 596	(a) 705	(a) 506	(a) 613
Irish Republic—						
Magnesium salts ..	378	n.a.	n.a.	n.a.	n.a.	n.a.

* Magnesite unless otherwise stated.

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

(c) Unwrought including alloys.

IMPORTS OF MAGNESITE, ETC. (cont.)

Long ton

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
Austria—						
Crude	4,176	10,621	25,751	19,905	31,803	3,925
Caustic and dead burned	1,554	904	1,857	17,393	23,046	23,411
Magnesium metal ..	318	451	506	532	502	536
Chloride	2,481	1,764	1,685	1,468	1,403	1,228
Dolomite	1,982	2,470	3,084	3,058	3,243	3,254
Belgium-Luxemburg						
E.U.—						
Crude	406	757	481	244	428	210
Calcined	3,545	2,816	3,569	6,064	3,244	3,334
Magnesium metal ..	510	479	714	706	1,074	627
Carbonate	249	261	284	300	247	224
Chloride	458	646	668	849	889	2,076
Oxide and hydroxide ..	455	642	734	913	985	1,026
Sulphate	1,807	2,128	2,076	1,911	2,153	1,622
Dolomite, crude ..	8,519	7,341	9,503	6,997	10,674	24,695
do. calcined ..	5,292	5,527	6,874	11,720	12,441	14,438
Denmark—						
Crude	2,506	3,315	3,756	4,640	5,466	4,062
Carbonate	90	1,005	107	104	77	62
Chloride	486	537	445	707	587	1,007
Sulphate	1,754	2,210	4,760	2,488	1,812	1,577
Dolomite	17,457	16,669	17,823	15,373	19,287	21,253
Finland—						
Crude and calcined ..	1,862	1,884	1,546	1,998	2,006	2,027
Bricks	3,875	3,574	3,960	4,755	4,427	8,813
Carbonate	88	60	63	113	98	214
Chloride	214	222	263	288	307	800
Sulphate	215	309	370	1,202	609	3,733
France—						
Crude	4,456	3,163	1,689	767	1,369	1,044
Calcined	23,729	22,714	33,114	41,516	40,121	37,954
Bricks	n.a.	29,477	32,540	36,313	31,629	31,724
Magnesium metal (a) ..	1,176	1,847	2,622	1,183	1,029	1,126
Carbonate	217	275	234	221	272	246
Chloride	96	30	121	370	1,839	2,832
Oxide and hydroxide ..	420	567	472	311	265	785
Sulphate	2,765	2,621	1,974	3,041	2,630	2,975
Dolomite, crude ..	47,669	49,733	50,063	49,470	58,778	51,052
do. calcined ..	139,253	132,452	131,113	125,815	121,592	118,996
Germany (Federal)—						
Crude	1,371	1,182	8,745	3,018	1,124	1,484
Caustic	110,152	102,475	113,603	121,437	119,658	98,257
Dead-burned	99,274	97,513	174,708	220,402	189,379	199,228
Magnesium metal (a) ..	29,538	30,528	33,963	40,398	35,295	32,264
Carbonate	210	223	783	949	1,068	793
Chloride	33	92	15	17	17	26
Oxide and hydroxide ..	3,170	4,007	2,361	2,081	2,014	1,686
Sulphate	3	17	41	50	67	131
Dolomite	59,155	117,379	116,361	118,524	145,671	237,515
Greece—						
Crude and calcined ..	301	250	409	496	334	n.a.
Magnesium metal ..	6	15	27	4	13	n.a.
Chloride	124	86	79	88	76	n.a.
Sulphate	79	366	312	263	251	n.a.
Dolomite	242	41	106	194	142	n.a.
Hungary—						
Dead-burned	68,226	64,118	58,037	62,375	76,945	74,580
Italy—						
Crude	13,949	12,413	15,282	12,780	9,359	15,236
Calcined	32,004	26,054	29,363	35,996	35,363	36,906
Chloride	3,917	4,259	4,204	4,060	3,946	5,103
Oxide	271	379	312	331	620	813
Sulphate	1,808	2,518	4,956	5,834	6,733	7,985
Dolomite	2,146	1,065	1,070	429	1,123	1,397

(a) Including alloys and scrap.

IMPORTS OF MAGNESITE, ETC. (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Netherlands—						
Crude	1,910	2,150	2,519	2,808	2,930	1,747
Calcined	34,188	37,580	48,778	40,123	33,394	20,247
Magnesium metal	309	387	485	388	397	480
Carbonate	455	457	6,576	458	403	423
Oxide and hydroxide	238	347	410	444	533	366
Sulphate	7,122	8,225	7,285	6,562	6,549	4,890
Chloride	2,386	2,593	2,688	2,888	2,870	3,477
Dolomite, crude	204,108	210,260	260,935	361,519	315,309	380,798
do. calcined	45,894	49,478	47,650	53,840	60,485	51,189
Norway—						
Crude and calcined	7,547	7,221	7,643	3,895	3,964	2,311
Chloride	14,061	41,477	51,500	51,890	54,418	55,319
Sulphate	8,445	482	381	268	333	236
Dolomite	3,695	6,657	12,326	15,580	4,619	2,930
Poland—						
Calcined and caustic	<i>n.a.</i>	123,700	120,600	157,095	152,248	102,502
Magnesium metal	<i>n.a.</i>	422	276	295	394	464
Chloride	<i>n.a.</i>	7,860	5,867	6,376	6,929	7,097
Portugal—						
Crude and calcined	1,066	750	533	245	1,016	361
Carbonate	76	107	123	117	142	91
Oxide	29	18	73	245	48	168
Sulphate	1,240	1,586	1,728	1,836	496	1,128
Spain—						
Crude and calcined	3,190	1,140	3,859	11,547	7,096	6,318
Magnesium metal	173	161	205	298	339	321
Dolomite, crude	1,191	1,885	1,809	687	925	1,386
do. calcined	32	157	163	146	122	72
Sweden—						
Crude and calcined	4,417	6,722	9,204	7,872	15,673	7,135
Bricks	22,619	20,121	28,568	38,804	41,961	35,922
Magnesium metal	487	490	582	471	380	695
Carbonate	223	167	201	188	226	156
Chloride	1,243	1,482	1,154	2,157	3,704	4,091
Sulphate	2,302	4,512	11,976	9,372	10,004	13,023
Dolomite	24,488	20,043	31,187	27,443	22,781	23,996
Switzerland—						
Magnesium metal	689	573	745	510	644	1,018
Calcined	3,933	3,557	4,242	3,867	4,049	3,309
Carbonate	184	126	283	191	236	169
Chloride	5,596	5,547	5,729	4,650	4,315	3,255
Sulphate	1,632	923	641	747	734	682
Dolomite, calcined	8,094	7,777	8,870	11,670	12,882	12,476
U.S.S.R.—						
Crude (a)	69,200	96,000	78,800	135,700	104,700	156,390
Yugoslavia—						
Bricks	10	2,015	—	7	318	622
Magnesium metal	153	269	487	651	491	468
Carbonate	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	203	91	43
Dolomite	<i>n.a.</i>	<i>n.a.</i>	663	1,217	2,275	2,307
Angola—						
Sulphate	9	23	1,032	49	81	58
Egypt—						
Magnesite and dolomite	4,551	4,587	623	3,518	2,664	<i>n.a.</i>
Sulphate	696	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Morocco—						
Crude	59	2	<i>n.a.</i>	54	6	63
Chloride	204	346	262	228	190	937
Sulphate	123	227	168	362	220	265
Dolomite	448	692	<i>n.a.</i>	154	492	647

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

IMPORTS OF MAGNESITE, ETC. (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
South Africa—						
Crude	<i>n.a.</i>	<i>n.a.</i>	25,745	35,615	34,681	98,904
Carbonate	10,214	9,832	25,744	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Chloride	125	174	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sulphate	1,321	904	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Mexico—						
Crude	8,222	56	53	22	993	31,296
Magnesium metal	357	586	476	466	639	332
Oxide	1,139	1,187	1,011	295	376	592
Sulphate	263	370	289	127	92	73
United States—						
Crude	1,493	<i>n.a.</i>	2	45	278	292
Calcined	6,908	8,868	8,379	10,625	11,876	8,187
Dead-burned	87,283	77,348	53,657	64,261	115,135	67,898
Bricks	13,431	10,266	16,439	18,694	17,977	20,338
Magnesium metal, etc.	2,106	1,652	1,988	2,278	1,562	6,820
Oxide	163	83	113	132	68	57
Carbonate, precipitated	355	556	993	1,116	973	804
Chloride	1,316	596	671	327	157	403
Sulphate	8,301	7,628	8,526	5,929	8,273	5,823
Kieserite	45,366	21,495	37,478	44,966	41,682	<i>n.a.</i>
Argentina—						
Crude	2,718	2,367	4,712	4,992	2,153	3,275
Carbonate	347	368	536	108	211	373
Chloride	50	25	113	124	207	152
Oxide	31	23	44	37	75	57
Brazil—						
Magnesium metal	601	1,779	1,478	1,309	2,772	1,954
Carbonate	11	229	170	168	324	263
Chloride	140	58	64	54	46	64
Oxide	87	117	102	79	123	106
Sulphate	552	772	410	112	193	146
Chile—						
Crude	20	52	<i>r</i> 44	42	<i>n.a.</i>	<i>n.a.</i>
Calcined	3,579	3,406	<i>r</i> 10,281	7,291	<i>n.a.</i>	<i>n.a.</i>
Dolomite, crude	7,538	11,521	<i>r</i> 36,179	11,265	<i>n.a.</i>	<i>n.a.</i>
do. calcined	2,955	3,347	<i>r</i> 12,635	5,938	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Crude and calcined	19	36	47	52	75	69
Carbonate	14	14	9	14	23	5
Chloride	44	58	64	97	115	98
Oxide	121	159	127	155	767	121
Sulphate	338	600	296	197	752	191
Dolomite	2,605	4,724	4,524	1,966	3,320	3,203
Peru—						
Crude and calcined	1,172	941	990	1,187	1,253	3,183
Carbonate	41	46	55	63	35	<i>n.a.</i>
Oxide	8	54	26	—	115	93
Hydroxide	16	27	73	227	171	630
Sulphate	301	67	128	285	9	13
Chloride	8	16	27	17		
Venezuela—						
Crude	754	635	804	2,146	2,868	1,771
Sulphate	350	375	329	766	362	255
Iran (a)—						
Sulphate	260	256	319	451	144	220
Israel—						
Crude	1,319	948	1,443	2,276	1,278	1,118
Japan—						
Crude	2,914	2,849	4,408	4,442	3,950	3,957
Dead-burn	67,062	20,234	19,220	21,316	19,806	30,487

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

IMPORTS OF MAGNESITE, ETC. (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Japan <i>cont.</i> —						
Magnesium metal	3	488	917	560	1,030	828
Dolomite	185	4,828	12,471	20,323	11,691	11,912
Korea (South)—						
Crude	1,695	2,044	1,972	1,250	294	—
Philippine Republic—						
Crude and calcined	741	768	387	274	<i>n.a.</i>	<i>n.a.</i>
Sulphate	<i>n.a.</i>	180	584	200	<i>n.a.</i>	<i>n.a.</i>
Dolomite	2,263	2,803	2,656	3,225	<i>n.a.</i>	<i>n.a.</i>
Syria—						
Sulphate	<i>n.a.</i>	<i>n.a.</i>	40	<i>n.a.</i>	<i>n.a.</i>	69
Thailand—						
Chloride	66	41	67	59	117	87
Sulphate	321	393	677	396	617	561
Turkey—						
Crude	76	92	3	7	68	1
Carbonate	70	43	56	64	68	213
Chloride	212	144	205	169	182	248
Oxide	12	10	27	28	21	23
Sulphate	535	422	381	369	629	415

MANGANESE
PRODUCTION OF MANGANESE ORE
(including Ferruginous Manganese Ore)

Long tons

Producing Country	Estimated Manganese Content						1967	1966	1965	1964	1963	1962	1967	1966	1965	1964	1963	1962				
	1962	1963	1964	1965	1966	1967																
COMMONWEALTH COUNTRIES																						
Botswana ..	23,623	10,605	27,356	8,676	—	4,186	490,500	—	568,100	—	—	179,000	n.a.	192,000	n.a.	218,000	n.a.	284,000	n.a.	273,000	n.a.	245,000
Ghana ..	373,400	401,000	454,800	592,500	568,100	490,500	n.a.	n.a.	n.a.	n.a.	n.a.	27,000	18,400	18,400	20,200	20,200	20,200	16,400	n.a.	14,200	14,200	13,000
Rhodesia ..	7,123	—	143	n.a.	n.a.	n.a.	24,955	26,280	30,326	37,410	37,410	27,000	59,000	59,000	49,000	49,000	70,000	70,000	70,000	76,000	76,000	74,000
Zambia ..	56,636	34,694	116,881	166,194	180,000	175,724	1,512,725	1,571,000	1,512,725	1,571,000	1,571,000	500,000	450,000	450,000	540,000	540,000	640,000	640,000	640,000	660,000	660,000	640,000
Guyana ..	1,189,912	1,083,395	1,282,969	1,093,375	1,282,969	1,512,725	42,106	42,106	1,512,725	1,512,725	1,512,725	30,000	64,000	64,000	34,000	34,000	37,000	37,000	37,000	24,000	24,000	15,000
India ..	86,368	192,000	100,024	2,666	82,127	84,000	84,000	84,000	82,127	82,127	84,000	n.a.	400	400	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Goa ..	304	6,872	—	—	—	84,000	84,000	84,000	82,127	82,127	84,000	n.a.	400	400	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Malaysia (West) ..	925	1,387	980	—	—	84,000	84,000	84,000	82,127	82,127	84,000	n.a.	400	400	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Fakistan ..	71,646	36,061	61,109	100,369	312,540	548,219	n.a.	n.a.	312,540	312,540	548,219	34,600	30,800	17,700	30,800	30,800	49,900	49,900	49,900	149,108	149,108	256,162
Australia ..	—	3,233	897	5,392	5,242	5,845	5,845	5,845	5,242	5,242	5,845	—	500	1,500	400	400	2,600	2,600	2,600	2,500	2,500	2,800
Papua ..	1,073	87,965	54,082	76,534	82,629	71,072	71,072	71,072	82,629	82,629	71,072	17,000	26,000	26,000	16,000	16,000	23,000	23,000	23,000	25,000	25,000	18,000
Fiji ..	68,530	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
New Hebrides (b) ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
TOTAL ..	2,150,600	1,998,000	2,136,700	2,604,000	2,900,000	2,960,000	2,960,000	2,960,000	2,900,000	2,900,000	2,960,000	2,150,600	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
OTHER COUNTRIES																						
Bulgaria ..	34,500	37,900	51,200	41,000	29,500	42,000	42,000	42,000	29,500	29,500	42,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Czechoslovakia ..	82,000	84,000	83,000	79,000	89,000	79,000	79,000	79,000	89,000	89,000	79,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
France ..	1,340	1,285	1,257	1,378	1,788	2,268	2,268	2,268	1,788	1,788	2,268	300	280	280	277	277	303	303	303	394	394	501
Greece ..	13,480	18,998	18,188	10,633	14,269	7,590	7,590	7,590	14,269	14,269	7,590	5,000	8,000	8,000	8,000	8,000	5,000	5,000	5,000	7,000	7,000	3,500
Hungary ..	127,185	149,965	168,492	210,000	207,000	206,000	206,000	206,000	207,000	207,000	206,000	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Italy ..	43,719	44,542	47,126	47,055	43,289	46,354	46,354	46,354	43,289	43,289	46,354	13,100	14,200	14,200	14,100	14,100	14,100	14,100	14,100	13,000	13,000	14,800
Portugal ..	11,309	8,423	6,885	7,642	8,471	9,677	9,677	9,677	8,471	8,471	9,677	4,750	3,201	3,201	2,616	2,616	3,179	3,179	3,179	3,262	3,262	3,503
Roumania ..	186,000	256,000	100,000	124,000	18,636	9,840	9,840	9,840	18,636	18,636	9,840	65,000	90,000	90,000	35,000	35,000	43,000	43,000	43,000	47,000	47,000	90,000
Spain ..	12,590	15,051	15,859	17,185	18,636	9,840	9,840	9,840	18,636	18,636	9,840	4,200	5,000	5,000	5,000	5,000	5,500	5,500	5,500	5,933	5,933	2,900
Sweden ..	3,266	7,201	5,850	25,539	21,308	17,800	17,800	17,800	21,308	21,308	17,800	572	1,210	1,210	860	860	3,831	3,831	3,831	2,834	2,834	2,500
U.S.S.R. ..	6,301,000	6,558,000	6,984,000	7,456,000	7,584,000	7,062,000	7,062,000	7,062,000	7,584,000	7,584,000	7,062,000	2,840,000	2,950,000	2,950,000	3,140,000	3,140,000	3,360,000	3,360,000	3,410,000	3,410,000	3,180,000	
Yugoslavia ..	14,605	8,004	7,661	7,969	8,480	9,643	9,643	9,643	8,480	8,480	9,643	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Angola ..	12,668	—	—	—	18,257	32,656	32,656	32,656	18,257	18,257	32,656	5,000	—	—	—	—	—	—	—	8,000	8,000	14,000

(a) United States Bureau of Mines' estimate.

(b) Production of ore as mined. Production of sintered ore (about 50% Mn) was as follows (long tons): 1962—19,517; 1963—25,015; 1964—59,312; 1965—65,066; 1966—75,036; 1967—70,272.

PRODUCTION OF MANGANESE ORE (cont.)

Long tons

Producing Country	Estimated Manganese Content						1967	1966	1965	1964	1963	1962	1967
	1962	1963	1964	1965	1966	1967							
OTHER COUNTRIES—(cont.)													
Congo Republic ..	311,203	265,768	304,808	371,612	236,000	267,000	267,000	236,000	371,612	150,000	130,000	150,000	267,000
Egypt ..	182,749	47,883	322,831	179,268	183,341	144,600	144,600	183,341	179,268	55,000	15,000	95,000	110,000
Ethiopia ..	5,905	—	—	—	—	—	—	—	—	3,000	—	—	—
Gabon ..	200,034	626,533	944,421	1,260,174	1,253,407	1,128,885	1,128,885	1,253,407	1,260,174	102,000	320,000	482,000	639,000
Ivory Coast ..	105,274	136,867	134,407	165,688	173,138	147,073	147,073	173,138	165,688	51,000	66,000	65,000	83,000
Morocco ..	461,944	329,658	335,691	369,944	356,696	281,619	281,619	356,696	369,944	210,000	150,000	150,000	160,000
South Africa ..	1,441,606	1,336,420	1,444,512	1,747,395	1,950,981	2,087,294	2,087,294	1,950,981	1,747,395	567,800	558,600	574,800	777,400
South West Africa ..	—	—	—	5,989	22,650	27,000	27,000	22,650	5,989	—	—	—	2,900
Sudan ..	1,000	(d)	8,500	1,000	1,500	(d)	1,400	1,500	1,000	n.a.	n.a.	n.a.	n.a.
Costa Rica (a) ..	—	590	—	—	—	—	—	—	—	n.a.	n.a.	—	n.a.
Mexico ..	d 140,000	rd170,000	rd188,000	rd183,000	d113,000	d109,000	d109,000	d113,000	rd183,000	61,876	53,483	63,077	57,882
United States (e) ..	194,360	357,848	208,734	290,298	298,940	269,415	269,415	298,940	290,298	33,621	47,084	34,707	46,271
Argentina ..	28,783	37,949	35,679	28,314	27,331	30,000	30,000	27,331	28,314	12,000	16,000	16,000	12,000
Bolivia (a) ..	260	—	—	—	—	—	—	—	—	n.a.	—	—	—
Brazil ..	1,152,199	1,234,579	1,327,764	1,374,013	1,431,919	1,336,916	1,336,916	1,431,919	1,374,013	518,000	556,000	597,000	618,000
Chile ..	42,640	45,830	19,547	16,326	17,638	14,620	14,620	17,638	16,326	19,000	21,000	9,000	7,000
Peru ..	6,610	510	366	974	840	1,056	1,056	840	974	3,000	200	200	400
Burma (b) ..	190	n.a.	—	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	80	n.a.	—	n.a.
China (d) ..	790,000	980,000	980,000	980,000	980,000	690,000	690,000	980,000	980,000	n.a.	n.a.	n.a.	n.a.
Indonesia ..	6,407	r 2,796	(d) 500	—	—	n.a.	n.a.	—	—	n.a.	n.a.	n.a.	n.a.
Iran (e) ..	5,400	15,000	31,000	33,000	d37,000	(d)40,000	(d)40,000	d37,000	33,000	n.a.	n.a.	n.a.	n.a.
Japan ..	303,716	272,347	280,202	297,000	306,000	335,000	335,000	306,000	297,000	105,000	94,000	94,000	100,000
Korea (South) ..	986	4,089	4,244	6,585	5,879	7,127	7,127	5,879	6,585	400	1,600	1,700	2,600
Philippine Republic ..	11,750	7,545	7,879	50,927	78,923	78,923	78,923	78,923	50,927	5,200	3,400	3,500	23,000
Thailand ..	2,853	6,505	10,880	32,901	69,487	77,324	77,324	69,487	32,901	1,500	3,400	5,800	17,400
Turkey ..	20,912	6,204	19,973	13,995	21,618	17,034	17,034	21,618	13,995	9,000	3,000	9,000	6,000
TOTAL ..	12,300,000	r13,000,000	14,100,000	15,400,000	15,800,000	15,000,000	15,000,000	15,800,000	15,400,000	15,000,000	15,000,000	15,000,000	15,000,000
WORLD'S TOTAL ..	14,500,000	r15,000,000	16,200,000	18,000,000	18,700,000	18,000,000	18,000,000	18,700,000	18,000,000	18,000,000	18,000,000	18,000,000	18,000,000

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	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Metal	25	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Spiegeleisen	873	76	60	93	—	10
Ferro-manganese		940	10,036	13,076	22,101	17,794
Ghana—						
Ore	476,379	387,866	497,993	564,797	589,506	445,310
Zambia (e)—						
Ore	45,138	42,874	26,546	32,113	25,695	27,244
Canada—						
Ferro-manganese	121	9	2,999	3,408	5,109	3,874
Guyana—						
Ore and concentrates	230,162	191,892	136,124	157,607	194,050	191,668
Cyprus—						
Ore and concentrates	—	104	—	—	—	—
India (b)—						
Ore	616,843	634,422	1,011,827	630,936	688,955	451,018
Ferruginous manganese ore	121,899	304,902	533,795	699,593	478,503	578,363
Ferro-manganese	12,093	21,581	86,768	55,532	10,127	28,833
Goa—						
Ore	118,429	(d)	(d)	(d)	(d)	(d)
Malaysia (West)—						
Ore	2,000	6,885	—	1,100	68,220	59,329
Singapore—						
Ore	511	691	1,057	817	1,485	1,739
Australia (a)—						
Ore	87,361	25,054	27,157	54,737	69,031	271,524
Fiji—						
Ore	10,335	10,182	761	4,809	5,089	4,360
New Hebrides—						
Concentrates—						
Unsintered	—	—	4,630	7,854	1,370	—
Sintered	14,188	22,791	64,703	70,276	62,762	73,429
Papua (a)—						
Ore	2	2	6	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
OTHER COUNTRIES						
Belgium-Luxemburg E.U.—						
Ore	2,188	2,438	1,987	7,397	1,202	2,545
Ferro-manganese	22,946	29,017	36,731	43,021	63,070	64,106
Ferro-silico-manganese	7,743	4,912	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Spiegeleisen	4,163	1,964	4,080	1,076	2,066	3,150
France—						
Ore (c)	1,596	1,812	1,731	1,567	751	1,118
Metal	20	199	1,027	1,565	3,389	3,270
Ferro-manganese	152,040	147,755	192,878	200,471	184,815	167,227
Spiegeleisen	17,332	12,733	15,821	16,872	12,073	7,492
Germany (Federal)—						
Ore	5,885	6,600	7,197	8,869	5,766	601
Metal	1,163	1,224	2,118	2,589	1,460	12
Ferro-manganese	30,440	66,252	61,279	54,904	90,111	39,852
Spiegeleisen	16,771	17,619	10,034	9,214	11,533	12,278
Greece—						
Ore	7,657	12,254	13,179	21,261	23,662	6,019
Italy—						
Ore (c)	634	726	668	1,035	548	295
Ferro-manganese	1,276	2,008	7,497	6,969	9,125	8,478

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

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

(e) Figures for the years 1962 and 1963 relate to Rhodesia and Nyasaland.

(c) Including manganiferous iron ore.

EXPORTS OF MANGANESE ORE, ETC. (cont.)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Netherlands—						
Ore (b)	5,590	6,983	8,452	8,589	10,596	18,436
Norway—						
Ore	200	2,600	4,300	8,237	3,000	2,000
Ferro-manganese	45,844	59,499	72,177	100,190	112,460	118,611
Ferro-silico-manganese	70,570	83,022	105,999	116,953	106,830	111,466
Portugal—						
Ore	866	6,048	8,326	2,839	7,705	6,333
Roumania—						
Ore	71,000	70,900	72,700	78,600	47,700	<i>n.a.</i>
Sweden—						
Ore	484	1,290	581	24,495	23,385	4,256
Metal	17	69	129	62	37	9
Ferro-manganese	2,537	4,281	2,913	3,129	8,028	12,561
Ferro-silico-manganese	25	20	1,004	25	15	494
U.S.S.R.—						
Ore	947,800	970,400	963,500	1,004,000	1,198,800	1,230,258
do. (dioxide)	11,300	8,800	12,900	15,600	16,600	16,700
Ferro-manganese	54,800	56,000	58,700	66,200	86,000	85,600
Yugoslavia—						
Ferro-manganese	7,693	8,130	4,631	3,038	701	389
Silico-manganese	1,794	4,564	1,812	2,105	8,960	11,216
Angola—						
Ore	9,375	2,869	9,484	848	5,674	12,895
Congo Republic—						
Ore (a)	250,000	350,000	325,000	400,000	230,000	180,000
Egypt—						
Ore	157,095	120,830	179,566	160,505	120,297	<i>n.a.</i>
Gabon—						
Ore	91,108	594,139	867,823	1,131,308	1,162,374	1,207,049
Ivory Coast—						
Ore	96,018	103,638	114,530	166,907	173,420	103,919
Morocco—						
Ore	427,156	344,135	281,109	315,869	299,608	211,171
South Africa—						
Ore	820,508	922,200	870,787	993,244	1,482,352	1,425,916
Metal	3,604	4,460	4,749	5,023	5,883	7,859
Ferro-manganese	104,861	77,444	120,310	155,110	154,400	125,816
South West Africa—						
Ore	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	—	24,329	<i>n.a.</i>
Costa Rica—						
Ore	—	590	—	—	—	—
Cuba—						
Ore	<i>r</i> 1,834	<i>r</i> 2,901	<i>r</i> 901	<i>r</i> 2,273	<i>n.a.</i>	<i>n.a.</i>
Mexico—						
Ore	130,322	108,024	118,316	86,865	39,965	10,284
<i>Mn content</i>	61,060	53,085	53,749	42,287	18,227	<i>n.a.</i>
United States—						
Ore	7,717	7,407	12,896	12,634	14,721	13,728
Metal	1,976	1,841	3,124	2,167	1,698	1,239
Ferro-manganese	3,673	605	3,485	2,922	487	1,662
Spiegeleisen	638	1,050	701	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Bolivia—						
Ore	260	—	—	—	—	—
Brazil—						
Ore	747,913	827,431	819,763	1,050,899	941,450	533,453
Ferro-manganese	4,937	—	—	7,145	764	305
Chile—						
Ore	9,723	4,651	3,412	12,641	<i>n.a.</i>	<i>n.a.</i>
Ferro-manganese	13,509	10,818	5,526	2,796	<i>n.a.</i>	<i>n.a.</i>
Silico-manganese	—	—	—	1,614	<i>n.a.</i>	<i>n.a.</i>

(a) Estimated.

(b) Including manganiferous iron ore.

EXPORTS OF MANGANESE ORE, ETC. (cont.)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Peru—						
Ore	6,858	694	831	463	—	188
Indonesia—						
Ore	6,517	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Iran (a)—						
Ore	246	11,950	26,431	34,459	39,171	10,654
Japan—						
Ore	805	478	50	356	386	924
Ferro-manganese ..	21,091	14,158	8,724	15,072	14,808	4,736
Ferro-silico-manganese	6,463	3,701	427	712	589	343
Korea (South)—						
Ore	<i>n.a.</i>	276	1,097	2,766	<i>n.a.</i>	<i>n.a.</i>
Philippine Republic—						
Ore	8,370	5,257	7,666	16,276	<i>n.a.</i>	<i>n.a.</i>
Thailand—						
Ore	296	2,712	6,629	18,319	65,404	79,084
Turkey—						
Ore	22,127	11,854	17,854	14,707	6,605	5,738

(a) Years ended March 20 following that stated.

IMPORTS OF MANGANESE ORE, ETC.

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore	342,390	305,196	524,393	494,188	364,962	404,526
Metal	1,056	2,061	3,135	2,135	1,861	2,494
Ferro-manganese	44,206	54,205	62,037	80,387	75,849	73,324
Spiegeleisen			35	151	49	—
Silico-manganese	28,056	27,297	35,837	32,722	27,847	24,390
Canada—						
Ore	81,004	95,439	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
<i>Mn content</i>	<i>n.a.</i>	<i>n.a.</i>	56,083	79,893	164,377	73,803
Ferro-manganese and spiegeleisen	13,332	20,211	19,491	30,859	43,855	14,325
Silico-manganese and silico-spiegel	2,434	2,102	1,557	703	1,724	3,752
Hong Kong—						
Ore	1	—	406	151	311	10
India (c)—						
Ore	14,430	12,673	4,706	761	8,740	3,147
Ferro-manganese	453	677	462	534	539	317
Malaysia (West)—						
Ore	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	817	1,382	1,622
Singapore—						
Ore	2,295	2,726	3,387	3,424	5,576	4,032
Australia (b)—						
Ore	12,151	54,365	49,542	73,340	34,340	7,370
Metal	177	208	346	327	(d) 241	353
Ferro-manganese	31,300	6,364	11,672	9,575	11,122	2,775
New Zealand (b)—						
Ferro-manganese	<i>n.a.</i>	603	524	525	840	742
OTHER COUNTRIES						
Austria—						
Ore	14,018	681	621	949	1,285	580
Spiegeleisen	2,255	2,331	2,654	3,063	2,485	1,765
Ferro-manganese	8,481	9,407	11,784	11,230	12,095	11,291
Belgium-Luxemburg						
E.U.—						
Ore (a)	205,208	219,683	266,806	304,467	254,802	280,990
Ferro-manganese	56,141	60,318	74,556	67,986	67,754	73,062
Ferro-silico-manganese	3,578	3,601	4,488	7,523	4,643	5,924
Spiegeleisen	22,537	19,108	18,284	13,768	12,672	14,749
Czechoslovakia—						
Ore	206,000	232,000	314,000	329,000	282,000	<i>n.a.</i>
Denmark—						
Ore	5,660	6,327	8,450	6,260	8,056	8,517
Ferro-manganese	1,599	1,242	945	508	1,665	2,197
Ferro-silico-manganese	710	1,690	1,951	2,252	2,494	2,855
Finland—						
Ferro-manganese and spiegeleisen	2,545	2,598	1,530	1,789	1,258	2,153
France—						
Ore (a)	705,956	701,050	778,700	841,229	826,816	678,933
Metal	302	953	603	714	547	665
Ferro-manganese	7,626	9,963	10,098	8,819	16,421	21,546
Spiegeleisen	2,022	2,658	2,046	1,387	2,262	4,303
Germany (Federal)—						
Ore	440,778	639,156	679,792	626,248	607,071	347,500
do. (ferruginous)	69,350	79,987	71,865	93,905	246,627	314,234
Metal	1,638	1,452	2,711	2,380	1,831	2,615
Ferro-manganese	78,794	70,203	88,867	86,762	87,323	71,605
Spiegeleisen	14,930	13,697	16,002	9,859	10,013	3,331

(a) Including manganiferous iron ore.

(b) Years ended June 30 of that stated.

(c) Years ended March 31 following that stated.

(d) Excluding waste and scrap.

IMPORTS OF MANGANESE ORE, ETC. (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (East)—						
Ore (b)	86,511	85,199	70,919	84,000	72,613	75,236
Greece—						
Ore	22	1,617	7,636	67	56	n.a.
Hungary—						
Ferro-manganese ..	10,485	11,208	11,651	11,774	14,634	12,233
Italy—						
Ore (a)	101,732	165,732	104,179	104,553	90,339	150,549
Metal	115	144	559	500	1,104	1,384
Spiegeleisen	13,476	19,064	6,524	5,223	13,716	24,861
Ferro-manganese ..	42,952	53,853	53,145	77,451	76,652	85,550
Ferro-silico-manganese	2,700	5,535	3,203	5,914	6,710	12,005
Netherlands—						
Ore (a)	36,650	12,723	16,561	16,309	26,829	42,095
Ferro-manganese ..	8,297	12,009	16,649	19,824	17,236	23,255
Ferro-silico-manganese	405	282	372	252	323	899
Spiegeleisen	483	1,075	708	458	915	317
Norway—						
Ore	279,620	229,759	354,317	502,055	480,844	526,259
Poland—						
Ore	294,277	299,494	374,200	342,215	391,293	348,434
Spain—						
Ore	60,762	100,754	147,304	85,257	140,683	132,715
Ferro-manganese ..	1,397	1,483	1,610	1,580	1,324	949
Sweden—						
Ore	56,894	76,133	56,085	94,459	45,230	106,621
Metal	918	1,115	1,120	1,052	1,256	1,193
Ferro-manganese ..	9,982	12,170	12,347	16,052	22,727	20,834
Spiegeleisen	100	200	167	492	—	108
Ferro-silico-manganese	3,583	7,277	6,214	8,265	8,567	7,382
Yugoslavia—						
Ore	44,225	35,465	40,038	43,417	34,502	48,218
Metal	41	17	98	75	110	50
Ferro-manganese ..	265	334	362	434	267	522
South Africa—						
Ore	n.a.	n.a.	617	509	930	n.a.
Mexico—						
Ferro-manganese ..	97	530	424	326	308	423
United States—						
Ore (over 35% Mn) ..	1,764,840	2,133,500	2,700,211	3,442,497	2,367,784	1,844,547
Mn content	842,553	1,003,669	1,277,171	1,630,097	1,126,325	872,467
Ore (10% to 35% Mn) ..	6,536	7,373	9,862	33,061	n.a.	n.a.
Mn content	2,101	n.a.	n.a.	10,087	11,088	1,839
Metal	1,343	2,108	784	1,235	1,803	1,998
Ferro-manganese ..	112,156	132,705	189,847	229,767	230,270	192,660
Mn content	86,643	103,015	144,710	176,887	173,717	149,596
Silico-manganese						
Mn content	15,315	12,883	6,133	10,358	21,470	20,907
Argentina—						
Ferro-manganese ..	452	178	292	2,294	474	298
Brazil—						
Ferro-manganese ..	44	58	24	37	319	479
Chile—						
Ferro-manganese ..	n.a.	—	r 14	—	n.a.	n.a.
Silico-manganese ..	3	—	r 1	13	n.a.	n.a.
Japan—						
Ore	316,740	361,922	550,123	1,048,021	1,122,356	1,482,975
Manganiferous iron ore	169,237	96,698	68,851	213,868	239,632	324,889
Ferro-manganese ..	—	—	—	2	—	9,243
Turkey—						
Ferro-manganese ..	3,502	766	4,977	6,977	8,507	5,478

(a) Including manganiferous iron ore.

(b) Mn content.

MERCURY
PRODUCTION OF MERCURY

Lb. avdp.

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Canada	—	—	5,548	1,520	—	—
OTHER COUNTRIES						
Italy	4,142,000	4,138,000	4,332,000	4,354,000	4,070,000	3,653,440
Roumania	16,890	14,780	14,780	14,520	14,440	14,440
Spain	4,012,668	4,328,536	5,952,000	5,674,263	5,324,104	3,724,000
U. S. S. R. (c)	2,700,000	2,700,000	2,700,000	3,000,000	3,000,000	3,400,000
Yugoslavia	1,240,000	1,200,000	1,320,000	1,250,000	1,210,000	1,201,536
Tunisia	—	—	—	13,200	19,300	22,333
Mexico	1,430,000	1,240,000	953,748	1,458,440	1,680,000	1,095,360
United States	1,997,100	1,452,900	1,074,800	1,488,200	1,672,600	1,807,600
Bolivia (a)	840	7,980	<i>n.a.</i>	4,489	<i>n.a.</i>	<i>n.a.</i>
Chile	60,142	46,632	20,310	32,498	7,295	13,995
Colombia	—	242	265	3,520	6,395	<i>n.a.</i>
Peru	264,700	234,966	248,902	236,873	240,616	226,480
China (c)	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	1,500,000
Japan	1,246,750	1,413,730	788,695	717,000	690,000	660,000
Philippine Republic	210,300	201,500	189,700	181,200	185,700	198,400
Turkey	202,200	226,600	196,200	187,000	260,000	315,000
WORLD'S TOTAL (b) ..	19,000,000	19,000,000	20,000,000	20,000,000	21,000,000	18,000,000

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

(a) Exports.

(b) Estimated.

(c) United States Bureau of Mines' estimate.

EXPORTS OF MERCURY, ETC.

Lb. avdp

Exporting Country and Description	1962	1963	1964	1965	1966	1967
Belgium-Luxemburg						
E.U.—						
Mercury	63,100	27,800	22,000	24,900	30,000	15,400
Mercury compounds ..	<i>n.a.</i>	<i>n.a.</i>	25,800	1,100	200	200
Denmark—						
Mercury oxide	882	2,646	6,614	2,000	—	—
France—						
Mercury	18,000	24,300	11,000	8,800	11,000	20,000
Mercury compounds ..	4,000	8,800	13,200	50,700	—	4,000
Germany (Federal)—						
Mercury	78,500	58,000	102,500	134,700	125,700	87,300
Italy—						
Mercury	2,715,213	5,755,400	6,348,232	3,883,000	3,452,000	2,809,600
Mercury compounds ..	1,179	220	33	—	—	661
Netherlands—						
Mercury	40,000	8,800	15,400	46,000	49,000	85,980
Mercury oxide	17,637	6,614	6,614	7,000	4,000	—
Spain—						
Mercury	3,487,713	3,733,598	5,376,789	4,923,360	3,999,829	3,839,764
Mercury compounds ..	285,106	394,003	111,567	133,721	64,177	415,238
Sweden—						
Mercury	7,000	6,600	20,000	35,000	51,000	18,000
Switzerland—						
Mercury	6,609	1,435	32,809	2,410	7,476	7,161
U.S.S.R.—						
Mercury	1,323,000	1,102,000	220,000	53,000	44,000	46,000
Yugoslavia—						
Mercury	724,452	800,928	824,348	1,049,014	1,088,005	1,115,766
Mercury compounds ..	381,483	199,018	181,855	89,728	44,101	56,859
Mexico—						
Mercury	1,651,791	1,433,005	1,017,819	1,468,000	1,485,000	965,000
United States—						
Mercury	17,053	14,212	14,288	573,268	27,132	199,682
Bolivia—						
Mercury	840	7,980	<i>n.a.</i>	4,489	<i>n.a.</i>	<i>n.a.</i>
Chile—						
Mercury	80,826	29,507	<i>r</i> 2,637	7,450	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Mercury	—	—	—	—	2,191	—
Peru—						
Mercury	279,365	196,095	293,918	124,762	210,369	225,595
Japan—						
Mercury	1,786	3,492	58,956	199,304	120,359	65,832
Philippine Republic—						
Mercury	261,753	146,579	110,194	167,919	<i>n.a.</i>	<i>n.a.</i>
Turkey—						
Mercury	166,000	208,500	245,700	176,300	236,602	340,523

IMPORTS OF MERCURY, ETC.

Lb. avdp.

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Mercury	1,136,261	1,575,810	1,689,576	1,381,274	1,140,702	1,101,330
Rhodesia (c)—						
Mercury	11,079	10,402	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Canada—						
Mercury	245,059	447,592	293,900	1,071,900	404,600	356,300
Mercury compounds ..	(£1,284)	(£3,153)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Hong Kong—						
Mercury	38,244	40,160	31,428	19,704	25,438	24,006
India (b)—						
Mercury	477,625	398,545	407,540	484,635	242,012	582,814
Mercury compounds ..	47,329	26,579	38,287	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Malaysia (West)—						
Mercury	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	27,526	9,066	3,758
Pakistan—						
Mercury	22,343	70,336	11,648	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Australia (a)—						
Mercury	128,728	139,623	114,316	203,742	102,215	141,970
Mercury compounds ..	26,178	34,645	18,327	6,551	13,390	3,356
New Zealand—						
Mercury	8,360	(a) 11,445	(a) 15,563	(a) 7,294	(a) 9,933	(a) 10,864
OTHER COUNTRIES						
Austria—						
Mercury	61,300	52,690	29,321	51,600	44,300	24,700
Belgium-Luxemburg						
E.U.—						
Mercury	46,500	235,700	126,500	271,400	103,800	310,000
Mercury compounds ..	15,900	15,200	15,200	14,600	20,300	10,400
Denmark—						
Mercury	44,000	57,300	77,200	46,000	46,000	39,683
Mercury compounds ..	52,911	70,547	57,320	37,000	13,000	15,432
Finland—						
Mercury	62,000	57,320	33,069	117,000	77,000	48,502
France—						
Mercury	1,138,000	1,164,000	754,000	983,300	637,000	739,000
Mercury compounds ..	29,000	77,200	70,500	68,300	64,000	55,000
Germany (Federal)—						
Mercury	1,789,900	1,241,200	1,849,000	1,745,800	1,479,100	945,600
Greece—						
Mercury	6,598	7,919	1,828	3,488	81,952	22,000
Italy—						
Mercury	46,445	29,762	22,688	83,300	79,600	87,083
Mercury compounds ..	45,876	40,124	12,641	8,200	27,100	19,400
Netherlands—						
Mercury	110,000	139,000	152,000	439,000	269,000	101,413
Mercury compounds ..	126,000	132,000	143,000	119,000	146,000	125,663
Norway—						
Mercury	64,000	55,000	77,000	51,000	46,000	46,000
Poland—						
Mercury	<i>n.a.</i>	342,400	366,600	692,000	622,000	769,400
Portugal—						
Mercury	33,300	23,000	51,600	19,000	58,000	15,873
Mercury compounds ..	4,400	4,900	5,700	3,500	2,000	4,409
Sweden—						
Mercury	282,000	309,000	139,000	161,000	185,000	90,400
Switzerland—						
Mercury	81,606	97,089	118,759	73,224	54,820	23,239
Yugoslavia—						
Mercury	<i>n.a.</i>	227,764	235,288	—	26	650
Mercury compounds ..	53	78,055	40,512	922	2,465	26,660

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

(c) Figures for years 1962 and 1963 relate to Rhodesia and Nyasaland.

IMPORTS OF MERCURY, ETC. (cont.)

Lb. avdp.

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Angola—						
Mercury	212	18,365	137	7,948	522	1,245
Mercury compounds ..	119	538	483	14,482	24,260	20
Egypt—						
Mercury	38,638	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Morocco—						
Mercury	2,405	7,994	580	518	1,054	267
Mozambique—						
Mercury	123	35	104	104	251	<i>n.a.</i>
South Africa—						
Mercury	72,191	61,175	48,354	61,531	255,025	85,519
Tunisia—						
Mercury	1,499	48,998	661	216	3,071	683
Costa Rica—						
Mercury	<i>n.a.</i>	3,968	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	261
United States—						
Mercury	2,395,216	3,277,576	3,127,629	1,234,088	2,383,747	1,850,391
Mercury compounds ..	46,368	14,899	8,625	12,452	<i>n.a.</i>	<i>n.a.</i>
Argentina—						
Mercury	24,332	38,116	216,113	28,894	54,168	18,867
Mercury compounds ..	3,840	4,810	6,920	11,184	6,027	293
Brazil—						
Mercury	101,071	255,134	228,231	131,519	122,820	54,476
Chile—						
Mercury	232	1,065	<i>r</i> 1,250	254	<i>n.a.</i>	<i>n.a.</i>
Mercury compounds ..	2,821	2,066	<i>r</i> 1,995	1,733	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Mercury	6,764	14,162	16,133	6,413	10,029	15,159
Mercury compounds ..	14,597	14,511	10,357	2,389	14,561	5,875
Peru—						
Mercury	<i>n.a.</i>	1,239	2,355	2,319	1,197	2,533
Mercury compounds ..	419	456	547	1,093	4,037	1,614
Uruguay—						
Mercury	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	132	1,750	—
Venezuela—						
Mercury	10,225	31,337	3,296	8,854	11,449	4,204
Mercury compounds ..	6,740	15,849	11,942	19,571	11,956	15,646
Formosa—						
Mercury	19,941	20,979	97,228	151,109	69,845	<i>n.a.</i>
Iran (a)—						
Mercury	45,365	1,316	3,386	3,314	8,056	981
Japan—						
Mercury	1,570,328	1,961,444	3,849,145	2,087,709	1,748,184	2,443,456
Korea (South)—						
Mercury	55,000	<i>r</i> 29,000	<i>r</i> 74,784	<i>r</i> 41,724	—	<i>n.a.</i>
Philippine Republic—						
Mercury	276	606	1,462	666	<i>n.a.</i>	<i>n.a.</i>
Thailand—						
Mercury	1,179	2,427	7,068	3,702	27,302	1,208
Mercury compounds ..	2,434	2,663	3,777	3,239	5,298	4,601
Turkey—						
Mercury compounds ..	2,942	3,399	5,172	6,312	4,559	5,822

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

MICA
PRODUCTION OF MICA

L.O. avdp.

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Kenya—						
Block and sheet	2,293	1,760	—	—	—	n.a.
Rhodesia—						
Crude	172,888	225,819	156,355	180,000	n.a.	n.a.
Block and sheet	33,136	58,452	74,910	64,000	n.a.	n.a.
Tanzania—						
Sheet	210,000	235,000	211,500	228,500	199,000	170,900
Waste	—	—	323,790	371,240	880,700	276,800
Uganda	180	—	—	30	360	n.a.
Zambia—						
Sheet	—	—	3,305	8,731	—	—
Canada (a)—						
Rough mine-run or						
rified	72,187	12,021	—	—	—	—
Trimmed	33,437	4,235	20,454	1,261	—	—
Splittings	—	—	—	—	—	—
Sold for mechanical						
splitting	26,400	—	68,100	10,800	4,000	—
Ground	609,968	813,935	615,968	299,500	339,800	—
Scrap	455,805	352,850	493,640	236,050	200,000	—
Ungraded	6,237	—	—	—	—	—
By varieties—						
Phlogopite and						
biotite	1,204,034	1,182,041	1,198,114	n.a.	n.a.	—
Muscovite and schist	—	1,000	48	n.a.	n.a.	—
India (c)(d)—						
Block	4,274,029	3,896,919	4,032,120	3,147,892	3,846,576	3,433,662
Splittings	18,562,593	17,408,950	18,433,579	19,604,512	12,805,646	13,110,830
Ground and waste	52,112,644	43,961,185	46,079,728	70,276,740	22,067,733	30,431,449
Other unmanufactured	404,958	216,734	216,498	173,629	212,177	182,210
Pakistan (e)	—	2,000	9,000	15,000	—	n.a.
Australia (b)—						
Scrap	—	16,352	32,032	—	—	—
OTHER COUNTRIES						
Austria	33,000	—	—	—	—	—
France	190,000	388,000	646,000	430,000	492,000	630,560
Germany (Federal)	20,000	11,000	18,000	26,000	—	—
Italy	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Norway—						
Crude	—	} f6,610,000	8,818,000	6,614,000	f 6,610,000	{ n.a.
Waste	n.a.					
Sweden (a)—						
Ground	130,000	44,000	46,000	—	—	n.a.
Yugoslavia	4,000	77,000	26,000	119,000	44,000	(f) 120,000
Malagasy Republic—						
Phlogopite (block and						
splittings)	2,961,000	2,120,000	1,500,000	1,390,000	1,580,000	1,633,000
Mozambique	1,214	—	—	22,000	n.a.	n.a.
South Africa—						
Sheet	2,608	} 4,680,000	{ 103,633	2,000	1,068	9,331
Waste	4,900,000					
South West Africa	150,000	1,200,000	832,000	5,000,000	4,926,000	10,180,000
Mexico	—	—	—	260,000	56,000	n.a.
					873,000	n.a.

(a) Sales.

(b) The following amounts of damourite were also produced (lb. avdp.): 1962—1,090,000; 1963—1,100,000; 1964—1,270,000; 1965—1,510,000; 1966—1,380,000; 1967—1,091,000

(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	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
United States (a)—						
Sheet (uncut)	363,016	102,961	242,662	716,086	4,000	20,000
Scrap (b)	215,404,000	218,646,000	229,458,000	240,509,000	226,266,000	237,006,000
Argentina—						
Sheet	110,000	200,000	241,191	205,510	290,279	300,000
Waste	—	—	456,760	259,420	2,111,451	<i>n.a.</i>
Brazil	3,885,000	3,289,000	3,241,000	3,089,000	2,244,000	<i>n.a.</i>
Uruguay	<i>n.a.</i>	95,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
TOTAL*	307,000,000	298,000,000	314,000,000	347,000,000	288,000,000	310,000,000

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

(a) Sold or used by producers.

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

EXPORTS OF MICA

Lb. avdp.

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Splittings	} 6,279,000	7,728,000	9,538,000	5,593,000	5,472,000	1,693,000
Ground and waste						
Kenya—						
Unmanufactured (a)	500	1,800	—	—	—	—
Rhodesia (e)—						
Unmanufactured (a)	33,327	99,877	777,053	n.a.	n.a.	n.a.
Tanzania—						
Unmanufactured (a)	218,600	241,100	535,800	598,080	1,097,300	587,000
Zambia—						
Block or sheet	n.a.	n.a.	5,760	887	n.a.	2,808
Waste	n.a.	n.a.	960	—	n.a.	4,383
Canada—						
Rough	97,900	—	—	—	—	—
Trimmed block or sheet	102,300	—	—	—	—	—
Waste	(d)	—	—	—	—	—
Hong Kong—						
Manufactured	—	560	560	1,120	—	—
India (c)—						
Block	4,274,029	3,896,919	4,032,120	3,147,892	3,847,612	3,433,662
Splittings	18,562,593	17,408,950	18,433,579	19,604,512	12,805,646	13,110,830
Ground and waste	52,112,644	43,961,185	46,079,728	70,276,740	22,067,733	30,431,449
Other unmanufactured	404,958	216,734	216,498	173,629	212,177	182,210
Manufactured	175,113	459,205	532,485	2,607,211	2,611,234	3,866,941
Singapore—						
Unmanufactured (a)	900	2,000	400	—	1,300	—
Manufactured	4,482	1,282	511	287	845	721
Australia (b)—						
Unmanufactured	57,344	60,397	68,418	73,564	64,991	n.a.
Manufactured	(£12,858)	(£16,367)	(£23,813)	(£20,153)	(£19,898)	(£21,600)
OTHER COUNTRIES						
Austria—						
Unmanufactured	(a) 11,000	66,800	11,000	21,800	23,400	4,600
Manufactured	40,800	17,000	24,000	20,300	32,000	21,200
Belgium-Luxemburg						
E.U.—						
Unmanufactured (a)	45,000	19,600	50,900	30,400	73,200	193,600
Manufactured	257,900	285,500	435,200	381,400	442,700	655,900
Denmark—						
Ground	2,000	2,200	2,200	7,000	51,000	66,138
Manufactured	2,000	—	1,100	—	2,000	—
Finland—						
Unmanufactured (a)	165,000	132,000	110,000	110,000	55,000	55,000
France—						
Unmanufactured (a)	110,000	53,000	390,200	136,700	62,000	86,000
Ground	254,000	n.a.	388,000	1,135,400	1,550,000	1,905,000
Manufactured	518,000	615,100	716,500	623,900	547,000	721,000
Germany (Federal)—						
Unmanufactured (a)	945,100	1,072,300	1,218,700	1,065,900	1,350,000	1,506,000
Manufactured	220,700	187,600	277,300	265,900	374,600	398,400
Italy—						
Ground	81,467	106,000	131,219	170,400	968,000	567,200
Waste	—	—	—	113,300	315,000	155,600
Manufactured	49,650	52,700	69,856	69,000	76,000	58,860
Netherlands—						
Unmanufactured	247,000	346,000	392,000	229,000	168,000	220,462
Manufactured	15,400	24,300	—	—	4,000	6,614
Norway—						
Unmanufactured	6,446,000	7,917,000	8,768,000	9,074,000	9,458,000	9,886,000
Waste	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 1962 and 1963 relate to Rhodesia and Nyasaland.

EXPORTS OF MICA (cont.)

Lb. avdp.

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Spain—						
Manufactured	—	992	24,467	16,149	31,802	46,425
Sweden—						
Unmanufactured ..	18,000	13,000	20,000	57,000	—	—
Switzerland—						
Unmanufactured (a) ..	44,509	45,102	25,904	10,293	11,643	131,537
Manufactured	528,302	367,881	434,456	335,872	354,406	459,972
U.S.S.R.—						
Unmanufactured ..	—	15,000	7,000	—	—	—
Angola—						
Unmanufactured ..	<i>n.a.</i>	} 5,732	—	—	33,000	—
Waste	<i>n.a.</i>					
Malagasy Republic—						
Unmanufactured ..	2,356,741	1,856,881	2,125,805	2,099,050	2,109,698	2,242,736
Mozambique—						
Unmanufactured ..	1,214	—	—	22,000	13,000	<i>n.a.</i>
South Africa—						
Unmanufactured (a) ..	5,312,000	4,704,000	5,402,000	3,936,000	3,446,000	16,510,416
Mexico—						
Unmanufactured ..	16,405	—	—	227	—	—
United States—						
Unmanufactured ..	430,856	594,427	542,516	} 7,802,539	10,810,194	14,301,524
Ground	7,427,420	7,244,428	8,263,497			
Manufactured	197,441	204,246	281,131	523,338	537,556	526,690
Argentina—						
Unmanufactured ..	650,088	1,067,716	2,011,037	1,087,573	732,856	690,600
Brazil—						
Unmanufactured ..	1,944,902	2,759,680	3,837,220	4,989,404	4,172,724	1,317,542
Manufactured	60,197	33,600	22,540	12,763	9,233	12,070
Japan—						
Unmanufactured (a) ..	40,000	33,000	126,000	88,200	379,000	224,872
Manufactured	88,851	33,788	32,952	91,717	77,640	201,573

(a) Including waste.

IMPORTS OF MICA

Lb. avdp.

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Block	473,000	677,000	867,000	(c) 16,000	(c) 999,000	264,000
Splittings	1,693,000	2,556,000	2,589,000	3,011,000	1,516,000	898,000
Ground and waste	10,385,000	21,726,000	10,940,000	22,118,000	13,104,000	11,101,000
Manufactured	n.a.	81,000	164,000	210,000	279,000	321,000
Kenya—						
Unmanufactured (a)	15,500	29,400	20,200	74,300	33,700	48,400
Malawi—						
Manufactured	n.a.	n.a.	n.a.	n.a.	8,160	n.a.
Mauritius—						
Unmanufactured	351	—	—	—	110	481
Manufactured	7	271	—	(c) 143	172	11
Tanzania—						
Unmanufactured (a)	24,500	16,700	8,800	—	21,800	21,800
Zambia—						
Block or sheet	n.a.	n.a.	42,540	6,020	13,250	28
Canada—						
Unmanufactured	2,296,300	d 4,451,387	d 5,884,000	d 6,235,600	d 6,368,300	d 6,984,700
Manufactured	(£146,920)	d(£167,443)	d(£246,135)	d(£200,788)	d(£227,000)	d(£245,072)
Jamaica—						
Unmanufactured	187,889	142,779	203,120	230,320	225,781	412,084
Manufactured	147	842	270	152	697	1,933
Trinidad and Tobago—						
Unmanufactured (a)	2,500	16,500	21,000	59,500	55,700	55,600
Manufactured	165	245	85	325	432	29
Hong Kong—						
Unmanufactured (a)	9,000	6,700	4,400	3,800	(c) 89,824	(c) 16,800
Manufactured	12,300	11,000	22,000	17,800	27,000	36,064
India—						
Unmanufactured	8,800	—	—	—	—	—
Manufactured	2,200	4,400	—	2,240	9,389	1,874
Malaysia (West)—						
Unmanufactured (a)	n.a.	n.a.	n.a.	4,210	11,600	3,450
Manufactured	n.a.	n.a.	n.a.	8,584	10,441	4,570
Sarawak—						
Unmanufactured (a)	—	—	22	—	38,640	—
Singapore—						
Unmanufactured (a)	1,600	22	1,100	14,700	6,030	14,358
Manufactured	6,938	5,822	4,905	2,992	4,682	2,860
Australia (b)—						
Block or sheet	15,150	40,393	74,571	97,900	75,225	42,903
Splittings	144,714	178,034	246,699	316,491	223,749	172,071
Ground	310,592	590,616	567,760	768,639	725,289	757,220
Waste	663,261	575,472	718,587	1,528,894	872,844	867,047
Manufactured	(£8,583)	(£5,828)	(£6,094)	(£11,990)	(£10,000)	(£14,000)
New Zealand—						
Unmanufactured	} £NZ12,407	b £NZ9,542	b £NZ12,414	b £NZ11,317	b £NZ19,672	b £NZ10,905
Waste						
Manufactured	n.a.	b £NZ27,121	b £NZ37,348	b £NZ38,694	b £NZ28,823	b £NZ29,870
OTHER COUNTRIES						
Austria—						
Unmanufactured (a)	515,700	817,700	744,900	571,200	842,400	522,900
Manufactured	56,000	45,000	63,000	38,800	59,700	71,000
Belgium-Luxemburg						
E.U.—						
Unmanufactured (a)	1,965,400	1,675,300	2,330,300	3,021,900	2,650,600	2,958,400
Manufactured	89,100	72,500	109,100	89,100	88,200	37,700

(a) Including waste.

(b) Years ended June 30 of that stated.

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

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

IMPORTS OF MICA (cont.)

Lb. avdp.

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Denmark—						
Unmanufactured ..	13,000	26,500	8,800	97,000	22,000	13,228
Ground	245,000	482,800	412,300	538,000	650,000	751,776
Manufactured ..	152,000	108,000	128,000	161,000	112,000	138,891
Finland—						
Unmanufactured (a) ..	686,709	1,091,337	801,400	1,052,910	1,638,059	1,095,543
Manufactured	62,000	59,500	53,000	68,000	46,000	52,911
France—						
Unmanufactured (a) ..	4,409,000	4,334,300	8,474,600	7,209,100	12,577,000	8,051,000
Ground	2,919,000	3,661,900	3,785,300	3,388,500	4,063,000	4,259,000
Manufactured	88,000	68,300	94,800	502,700	120,000	123,000
Germany (Federal)—						
Unmanufactured (a) ..	9,882,700	9,886,800	14,050,500	15,114,500	12,075,000	12,474,000
Manufactured	181,200	237,400	318,800	450,000	2,898,000	2,474,000
Greece—						
Unmanufactured ..	63,160	50,797	62,576	49,547	65,389	48,713
Manufactured	11,438	16,976	12,483	17,666	20,507	n.a.
Italy—						
Unmanufactured ..	3,670,264	1,475,300	1,110,823	751,100	} 4,184,600	} 6,124,882
Ground	2,682,448	} 2,568,400	{ 2,061,999	1,827,900		
Waste	1,799,034			903,329			2,294,600
Manufactured	534,090	283,000	219,814	163,600			256,398	300,049
Netherlands—						
Unmanufactured (a) ..	1,565,000	1,389,000	1,748,000	2,110,000	1,810,000	2,061,322
Manufactured	123,000	126,000	4,000	132,000	123,000	119,050
Norway—						
Unmanufactured ..	55,000	71,000	754,000	2,769,000	337,000	148,000
Waste	9,231,000	7,520,000	7,416,000	11,510,000	10,644,000	10,598,000
Manufactured	368,000	88,000	77,000	86,000	44,000	86,000
Poland—						
Unmanufactured ..	n.a.	1,351,200	2,100,800	2,429,000	2,282,000	2,332,000
Portugal—						
Unmanufactured ..	284,400	205,500	289,500	323,400	190,700	203,928
Manufactured	15,000	15,200	16,800	21,800	90,610	16,535
Spain	838,257	1,467,831	1,037,292	2,031,910	1,461,885	1,553,323
Sweden—						
Unmanufactured (a) ..	2,496,000	2,544,000	2,324,000	2,709,000	2,710,000	2,097,000
Manufactured	93,000	90,000	108,000	88,000	93,000	84,000
Switzerland—						
Unmanufactured (a) ..	2,042,483	2,027,829	1,519,957	1,884,698	1,381,818	1,411,020
Manufactured	228,820	130,218	265,756	356,807	206,763	471,749
U.S.S.R.—						
Unmanufactured ..	730,000	441,000	529,000	829,000	194,000	341,700
Yugoslavia—						
Unmanufactured ..	13,227	50,521	—	1,323	14,090	1,182,238
Manufactured	21,314	73,921	101,911	84,210	82,124	78,026
Egypt—						
Unmanufactured ..	15,926	n.a.	n.a.	n.a.	n.a.	n.a.
Manufactured	3,865	n.a.	n.a.	n.a.	n.a.	n.a.
Malagasy Republic—						
Unmanufactured ..	17,637	1,653	4,411	77	478	5,710
Morocco—						
Ground	2,425	7,055	3,300	3,300	11,000	13,283
Manufactured	2,383	2,077	2,354	—	—	—
South Africa—						
Unmanufactured ..	n.a.	n.a.	1,003,600	497,900	838,100	n.a.
Manufactured	n.a.	n.a.	377,532	(£271,000)	(£217,211)	(£231,194)
Mica and micanite sheets	64,146	89,791	(b)	(b)	(b)	(b)
Sudan—						
Unmanufactured ..	n.a.	16,199	11,000	2,000	7,000	n.a.
Manufactured	n.a.	35,713	9,004	22,159	29,000	22,000

(a) Including waste.

(b) Included with "manufactured"

IMPORTS OF MICA (cont.)

Lb. avdp.

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Tunisia—						
Unmanufactured	11,023	14,980	37,593	302,069	18,490	33,770
Ground						
Manufactured	1,700	1,900	1,000	1,528	2,211	1,594
Guatemala—						
Unmanufactured	7,857	14,145	17,379	19,427	21,208	35,554
Manufactured	18	42	227	260	225	68
Mexico—						
Unmanufactured	201,474	177,126	124,035	360,617	527,520	412,181
Waste	417,604	263,946	77,329			
United States—						
Unmanufactured	1,110,739	1,133,521	942,547	653,734	3,810,703	1,946,797
Ground	69,000	31,000	23,000	87,000		
Waste	8,916,421	16,075,434	5,465,748	3,043,355		
Films and splittings	10,460,437	8,442,887	9,830,594	11,117,748	9,318,008	6,025,548
Other manufactures	276,196	231,283	244,495	384,026	298,460	216,605
Argentina	4,031	28,590	42,443	43,297	18,894	27,084
Bolivia	265	31,200	18	—	—	—
Brazil—						
Unmanufactured	2,244	661	500	701	3,955	220
Manufactured	11,188	58,784	14,654	48,264	49,582	49,134
Chile—						
Unmanufactured	64,146	39,930	r 10,540	14,559	n.a.	n.a.
Manufactured	6,942	10,699	r 11,047	20,681	n.a.	n.a.
Colombia—						
Unmanufactured	425,915	300,587	259,841	186,876	319,121	261,819
Manufactured	12,807	22,306	21,272	24,690	38,638	40,605
Peru—						
Ground and waste	205,594	225,046	285,307	302,620	296,143	354,371
Venezuela—						
Unmanufactured	733,473	312,657	657,489	846,740	863,182	1,075,565
Manufactured	21,308	4,376	7,553	5,280	14,974	12,341
Iran (a)—						
Unmanufactured	251,911	835,420	453,650	1,072,300	601,483	324,884
Manufactured	11,764	11,508	64,137	202,984		
Japan—						
Unmanufactured	3,851,000	3,126,000	9,301,000	11,105,000	5,483,000	10,523,000
Ground						
Waste						
Manufactured	3,538,000	3,258,000	3,018,000	3,472,000	4,475,000	6,283,000
Lebanon—						
Unmanufactured	2,185	1,468	840	637	952	8,574
Lebanon—						
Unmanufactured	8,234	21,566	54,611	71,564	55,281	13,977
Philippine Republic—						
Unmanufactured	84,957	109,989	82,642	143,772	n.a.	n.a.
Thailand—						
Unmanufactured	1,107	4,273	10,911	20,049	22,048	37,479
Manufactured	3,565	7,824	4,969	10,190	12,233	16,581
Turkey—						
Unmanufactured	25,026	39,979	116,845	72,753	18,023	98,822
Manufactured	5,150	16,506	356,024	18,435	39,110	55,126

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

MOLYBDENUM
PRODUCTION OF MOLYBDENUM ORE
(MoS₂ content or equivalent)

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Nigeria	—	2	—	3	2	<i>n.a.</i>
Canada (a)	609	621	912	7,116	15,336	15,803
Australia	1	10	—	19	2	—
OTHER COUNTRIES						
Norway	427	345	375	393	398	479
U.S.S.R. (b)	9,300	9,300	9,800	10,200	10,600	<i>n.a.</i>
Mexico	96	68	88	80	147	63
United States	38,156	48,407	48,849	57,611	67,410	39,700
Chile	4,005	4,770	6,323	7,702	7,016	7,781
Peru	—	836	648	1,116	1,243	1,517
China (b)	2,500	2,500	2,500	2,500	2,500	<i>n.a.</i>
Japan	613	544	460	455	465	473
Korea (South)	122	115	200	334	491	457
Philippine Republic	186	176	173	130	(b) 80	70
TOTAL*	56,000	67,700	70,300	87,700	105,700	79,400

*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	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ferro-molybdenum ..	229	160	130	277	478	209
Canada—						
Ore and concentrates (MO content) (a) ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	10,622
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Ferro-molybdenum ..	143	2	—	—	—	—
France—						
Ferro-molybdenum ..	412	569	618	467	507	318
Oxide and molybdates ..	10	57	38	61	73	31
Germany (Federal)—						
Ore	<i>n.a.</i>	<i>n.a.</i>	114	83	35	25
Metal	22	35	80	83	94	74
Italy—						
Ferro-molybdenum ..	<i>n.a.</i>	<i>n.a.</i>	13	1	1	1
Netherlands—						
Metal	70	55	65	123	153	90
Norway—						
Ore	480	417	400	417	426	494
Sweden—						
Ferro-molybdenum ..	326	271	308	420	607	684
U.S.S.R.—						
Ferro-molybdenum ..	2,500	3,000	5,300	4,600	1,100	—
Mexico—						
Ore and concentrates (MoS ₃ content) ..	96	68	88	107	64	11
United States—						
Ore and concentrates (MoS ₃ content) ..	11,582	19,765	18,570	16,388	13,289	13,393
Metal, alloys and scrap ..	34	62	627	49	26	22
Ferro-molybdenum ..	85	107	779	1,001	982	684
Wire, powder and semi-fabricated	21	25	128	309	94	253
Chile—						
Ore	5,049	5,844	7,559	5,574	7,261	<i>n.a.</i>
Peru—						
Ore (MoS ₃ content) ..	8	264	773	579	825	1,917
Korea (South)—						
Ore	<i>n.a.</i>	302	358	524	1,012	506
Philippine Republic—						
Concentrates	235	169	271	148	<i>n.a.</i>	<i>n.a.</i>

(a) Not recorded as a separate export item prior to 1967.

IMPORTS OF MOLYBDENUM ORE, ETC.

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore	5,510	5,780	6,398	7,823	8,997	8,880
Metal	30	42	81	120	67	84
Canada—						
Oxide	147	116	219	339	297	202
Australia (a)—						
Oxide	66	61	90	146	84	74
Ferro-molybdenum ..	74	77	260	182	244	193
OTHER COUNTRIES						
Austria—						
Oxide	237	291	296	393	529	332
Ferro-molybdenum ..	121	65	37	10	10	5
Belgium-Luxemburg E.U.—						
Oxide	14	9	86	15	15	29
Ferro-molybdenum ..	498	297	379	152	100	83
Denmark—						
Ferro-molybdenum ..	42	15	29	34	47	27
Finland—						
Ferro-molybdenum ..	133	59	67	76	124	102
France—						
Ore	3,190	4,547	4,785	4,105	5,576	5,350
Metal and alloys ..	26	34	73	86	84	81
Oxide and molybdates ..	42	39	7	18	79	32
Germany (Federal)—						
Ore	4,790	9,227	7,847	8,886	9,802	9,420
Metal	88	64	438	311	381	245
Hungary—						
Ferro-molybdenum ..	195	158	116	—	<i>n.a.</i>	<i>n.a.</i>
Italy—						
Ore	1,150	1,115	1,273	1,501	1,974	2,479
Metal	52	20	40	121	28	1
Ferro-molybdenum ..	—	<i>n.a.</i>	453	616	722	797
Netherlands—						
Metal	14	12	12	34	91	8
Ferro-molybdenum ..	99	56	50	86	87	55
Oxide and molybdates ..	206	183	218	207	78	88
Norway—						
Ferro-molybdenum ..	50	43	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Poland—						
Concentrates	<i>n.a.</i>	239	324	105	244	156
Sweden—						
Ore	1,891	2,295	3,022	3,400	3,950	3,414
Metal	24	22	69	44	70	23
Ferro-molybdenum ..	351	596	405	592	1,611	932
United States—						
Metal	20	154	110	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Semi-fabricated ..	14	8	5	15	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Ore and concentrates ..	1,285	1,619	4,998	4,962	7,220	8,648
Molybdenum metal ..	6	6	111	61	25	33

(a) Years ended June 30 of that stated.

NICKEL
PRODUCTION OF NICKEL ORE
(Metal content)

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Rhodesia	105	159	231	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Canada (b)	207,359	193,777	204,015	231,413	199,652	223,375
TOTAL	207,464	193,936	204,246	232,000	200,000	223,400
OTHER COUNTRIES						
Finland (c)	2,584	3,040	3,260	3,060	(a) 3,000	(a) 3,000
Poland	1,302	1,088	1,186	1,804	(a) 1,300	(a) 1,300
U.S.S.R. (d)	80,000	80,000	80,000	80,000	90,000	90,000
Morocco	282	270	331	354	384	(a) 370
Cuba (a) (e)	16,340	19,474	22,061	27,000	26,000	23,000
United States (f)	10,015	10,207	10,879	12,062	11,819	13,049
Brazil (i)	236	1,014	(a) 1,000	1,096	(a) 1,362	1,054
Burma (g)	106	90	70	50	70	50
Indonesia	440	1,600	1,700	2,800	(a) 4,000	5,900
Korea (South)	26	25	18	1	—	—
Philippine Republic	11	—	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
New Caledonia (h)	33,000	44,000	61,000	61,000	66,000	88,000
TOTAL*	150,000	160,000	180,000	190,000	200,000	230,000
WORLD'S TOTAL*	360,000	350,000	380,000	420,000	400,000	450,000

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

(a) United States Bureau of Mines' estimate.

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

(c) Nickel content of concentrates and nickel sulphate.

(d) Estimated. Source: Metallgesellschaft.

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

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

Secondary metal was recovered in the United States as follows:

	Long tons				Long tons			
1962	9,918	1965 .. ..	..	..	17,328
1963	16,961	1966 .. ..	..	..	23,908
1964	20,637	1967 .. ..	..	..	18,510

(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			
1962	15,062	1965 .. ..	..	..	30,873
1963	22,095	1966 .. ..	..	..	33,881
1964	26,167	1967 .. ..	..	..	33,951

(i) Content of ferro-nickel.

EXPORTS OF NICKEL*

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Unwrought (a) ..	20,129	23,604	26,882	27,783	25,385	30,203
Semi-manufactures ..	2,273	2,910	3,072	2,979	3,822	4,494
do. alloys ..	3,292	3,528	4,441	3,745	4,206	4,973
Scrap (a)	2,141	2,738	3,237	3,398	2,995	2,407
Nickel oxide	476	481	149	38	11	126
Rhodesia (d)—						
Ore	262	570	698	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Canada—						
Matte or speiss (Ni content)	69,116	74,457	66,755	73,506	74,631	74,698
Unwrought	108,672	97,461	114,580	120,712	118,493	114,874
Scrap (a)	865	854	965	934	1,056	1,797
Nickel oxide (Ni content) ..	9,929	13,579	31,965	36,568	30,028	30,539
Hong Kong—						
Scrap	18	62	56	20	43	94
Australia (c)						
Unwrought and semi-manufactures (a) ..	103	115	192	252	255	<i>n.a.</i>
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Unwrought	4	—	2	9	172	23
do. alloys	6	5	28	—	15	—
Scrap	367	606	494	454	463	589
Semi-manufactures (a) (b)	141	126	116	163	259	266
Denmark—						
Unwrought	—	—	—	—	5	—
Scrap (a)	199	221	201	173	405	245
Finland—						
Unwrought	2,190	2,329	3,122	2,508	2,585	2,604
France—						
Matte and speiss	429	1,201	656	55	22	252
Unwrought	5,231	5,494	3,041	4,704	7,010	8,382
do. alloys	20	—	14	27	26	27
Scrap (a)	1,077	3,099	828	1,357	1,565	2,267
Semi-manufactures (a)	961	1,066	1,114	1,729	1,921	2,574
Germany (Federal)—						
Unwrought and scrap (a)	913	824	1,085	1,194	2,571	3,011
Semi-manufactures (a)	5,031	4,312	4,307	5,047	5,964	6,621
Greece—						
Unwrought	220	595	45	56	<i>n.a.</i>	<i>n.a.</i>
Italy—						
Semi-manufactures (a)	717	972	777	1,071	1,020	803
Netherlands—						
Scrap (a)	976	1,524	1,534	1,167	1,270	2,136
Semi-manufactures (a)	181	90	106	123	195	196
Norway—						
Unwrought	27,243	23,559	33,330	30,745	30,138	28,753
Scrap	244	212	150	64	130	84
Semi-manufactures (a)	602	507	498	266	216	235

*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 1962 and 1963 relate to Rhodesia and Nyasaland.

EXPORTS OF NICKEL (*cont.*)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Sweden—						
Unwrought	122	9	—	70	33	434
Scrap	75	55	74	343	364	721
Semi-manufactures (a)	588	703	763	812	1,008	1,275
Switzerland—						
Unwrought and scrap (a)	517	474	589	802	675	583
Semi-manufactures (a)	675	775	773	1,061	994	935
South Africa—						
Unwrought	<i>n.a.</i>	<i>n.a.</i>	740	1,077	1,266	2,521
United States—						
Ore, concentrates and matte	41	11	7	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Unwrought (a)	7,134	8,920	10,661	4,739	10,208	6,655
Semi-manufactures (a)	1,862	1,614	2,130	5,676	5,285	6,027
Scrap (a)	15,643	43,854	48,364	6,003	5,247	12,404
Burma—						
Unwrought	—	706	615	—	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Ferro-nickel	—	11	—	3	186	5
Unwrought	—	—	7	1	1	5
do. alloys	—	—	—	—	—	—
Semi-manufactures (a)	176	133	240	388	3,059	1,857
Korea (South)—						
Ore	902	537	—	—	—	—
Philippine Republic—						
Ore	54	34	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
New Caledonia—						
Ore	607,603	606,969	1,066,559	879,821	1,069,493	1,484,452
Matte	11,377	17,581	16,901	18,107	19,372	16,411
Ferro-nickel	20,943	29,003	46,591	54,543	71,112	72,419

(a) Including alloys.

IMPORTS OF NICKEL*

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore, concentrates and matte	53,712	61,621	56,183	63,038	55,270	57,487
Unwrought	7,594	7,485	18,612	16,592	23,763	23,286
do. alloys	10	934	121	124	361	690
Semi-manufactures (a)	4,162	3,078	4,818	2,015	1,721	1,169
Scrap (a)	2,349	2,508	3,722	3,091	2,883	4,576
Nickel oxide	1,064	1,027	1,674	97	643	608
Rhodesia (f)—						
Semi-manufactures (a)	12	10	17	48	<i>n.a.</i>	<i>n.a.</i>
Canada—						
Unwrought (a)	132	8,212	} (e) 11,257	(e) 13,437	(e) 28,256	(e) 11,630
Semi-manufactures (a)	6,559	1,586				
Cyprus—						
Semi-manufactures (a)	5	1	2	—	2	9
Hong Kong—						
Semi-manufactures (a)	104	103	143	125	116	79
India (c)—						
Unwrought	1,304	1,663	1,249	634	265	390
do. alloys	45	39	60	480	113	339
Scrap	431	190	752	799	298	(a) 580
Semi-manufactures (a)	202	266	396	676	567	1,234
Australia (b)—						
Matte, speiss, etc.	—	300	82	1,409	456	136
Unwrought	355	624	947	1,252	972	980
do. alloys	(d) 96	(d) 162	(d) 213	(d) 318	319	707
Semi-manufactures (a)	845	1,054	996	1,104	(e) 793	(e) 1,141
New Zealand—						
Unwrought (a)	34	(b) 28	(b) 31	(b) 41	(b) 53	(b) 46
Semi-manufactures (a)	140	(b) 180	(b) 164	(b) 176	(b) 228	(b) 368
Irish Republic—						
Unwrought (a)	} 155	{ 10	23	32	13	28
Semi-manufactures (a)		{ 141	116	61	101	270
OTHER COUNTRIES						
Austria—						
Matte and speiss	120	293	385	363	726	700
Unwrought	2,049	3,020	2,788	2,488	2,210	1,862
Scrap	1	2	9	23	117	123
Semi-manufactures (a)	365	341	423	431	559	516
Belgium-Luxemburg						
E.U.—						
Unwrought	1,098	984	1,143	1,030	1,194	1,020
do. alloys	232	137	176	138	167	273
Scrap	287	403	349	523	550	1,232
Semi-manufactures (a)	536	611	689	678	657	968
Denmark—						
Unwrought	93	69	65	100	110	82
do. alloys	38	8	18	17	13	16
Semi-manufactures (a)	613	568	574	684	792	519

*See footnote on p. 224 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. (f) Figures for years 1962 and 1963 relate to

(d) Including scrap.

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

Rhodesia and Nyasaland.

IMPORTS OF NICKEL (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Finland—						
Unwrought (a) ..	387	145	227	263	249	238
France—						
Matte and speiss ..	13,554	12,501	11,079	16,556	12,963	18,322
Ferro-nickel	12,238	19,587	22,349	32,388	28,202	44,100
Unwrought	4,057	4,783	8,236	8,005	8,363	8,619
do. alloys	4	27	57	122	58	92
Scrap (a)	1,641	1,804	1,324	476	578	375
Semi-manufactures (a)	1,704	1,727	2,488	2,083	2,607	2,446
Germany (Federal)—						
Ore	20	682	119	521	5	239
Matte and speiss ..	481	1,240	3,622	4,067	6,069	3,978
Unwrought (a) ..	18,610	18,914	23,033	23,555	23,439	27,809
Scrap (a)	3,758	4,257	3,158	1,865	2,700	6,486
Semi-manufactures (a)	1,201	893	1,354	1,824	1,736	1,877
Italy—						
Matte and speiss ..	1,003	1,046	999	620	1,717	1,776
Unwrought (a) ..	4,325	6,067	7,114	8,322	10,983	11,870
Scrap	679	598	179	602	957	1,538
Semi-manufactures (a)	1,683	1,457	1,060	981	1,571	1,768
Nickel oxide	142	232	182	113	131	139
Netherlands—						
Unwrought	405	528	628	749	1,590	<i>n.a.</i>
do. alloys	42	57	102	63	64	231
Scrap (a)	446	862	896	733	1,042	1,502
Semi-manufactures (a)	1,514	1,343	1,875	1,908	1,892	2,181
Nickel oxide	166	206	228	127	65	71
Norway—						
Ore	211	—	—	—	—	—
Matte (copper-nickel) ..	59,896	55,559	50,009	59,760	60,405	52,673
Scrap (a)	524	165	1,397	2,727	1,845	187
Semi-manufactures (a)	333	283	264	243	266	344
Portugal—						
Unwrought and semi-manufactures ..	200	82	151	201	238	203
Spain—						
Matte and speiss ..	374	291	326	434	463	241
Unwrought (a) ..	691	817	888	1,191	1,153	1,392
Semi-manufactures (a)	537	765	698	1,103	1,089	1,049
Sweden—						
Matte and speiss ..	358	340	375	575	2,276	964
Unwrought	6,980	8,047	11,352	12,795	12,072	12,127
do. alloys	398	198	246	181	302	347
Scrap (a)	94	266	620	824	1,277	1,358
Semi-manufactures (a)	965	968	815	782	936	872
Switzerland—						
Unwrought and scrap (a)	1,591	1,084	1,317	972	1,387	1,307
Semi-manufactures (a)	743	637	741	1,397	1,088	1,095
Yugoslavia—						
Unwrought	353	566	576	562	354	396
Semi-manufactures (a)	17	82	92	96	121	522
Egypt—						
Semi-manufactures ..	45	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Mexico—						
Unwrought	240	146	222	204	93	70
Semi-manufactures ..	209	253	214	817	898	1,310
United States—						
Ore and matte	21	30	—	72	—	—
Unwrought and scrap ..	104,083	97,170	95,241	121,066	101,586	102,945
Semi-manufactures ..	362	<i>n.a.</i>	3,014	2,304	4,129	3,950
Nickel oxide	7,733	11,506	15,056	12,136	6,884	5,472

(a) Including alloys.

IMPORTS OF NICKEL (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Argentina—						
Unwrought	62	73	177	202	201	130
Semi-manufactures ..	136	127	331	307	280	236
Brazil—						
Unwrought (a) ..	866	322	352	273	468	381
Semi-manufactures (a)	307	267	142	230	397	358
Chile—						
Unwrought	19	<i>n.a.</i>	37	74	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Unwrought (a) ..	34	48	37	7	18	6
Semi-manufactures (a)	101	340	616	108	170	86
Formosa—						
Unwrought (a) ..	99	177	101	106	129	<i>n.a.</i>
Iran—						
Semi-manufactures ..	319	290	196	132	160	218
Japan—						
Ore	664,212	668,764	1,125,173	951,474	1,249,886	1,634,360
Matte	676	3,869	5,343	4,288	4,974	9,620
Soap (a)	8	21	12	—	4,839	10,650
Ferro-nickel	<i>n.a.</i>	<i>n.a.</i>	6,495	6,601	670	2,782
Unwrought (a) ..	1,054	169	2,438	2,615	3,034	12,082
Semi-manufactures (a)	669	776	1,351	654	629	2,016
Philippine Republic—						
Semi-manufactures (a)	21	12	58	39	<i>n.a.</i>	<i>n.a.</i>
Turkey—						
Semi-manufactures (a)	86	101	87	68	77	211

(a) Including alloys.

NITROGEN COMPOUNDS
PRODUCTION OF NITROGEN COMPOUNDS*

Long tons

Producing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom (a)—						
Nitrogenous fertilizers expressed as 25% NH ₃	2,257,300	2,630,200	2,784,400	2,952,000	3,188,300	3,848,000
Actual ammonium sulphate	1,090,000	1,152,600	1,170,000	990,000	913,600	824,400
Canada—						
Ammonium sulphate	253,589	246,740	284,504	260,437	307,125	n.a.
Ammonium nitrate	311,312	404,538	380,441	462,882	553,735	628,871
Trinidad (b)—						
(N content)						
Nitrogen fertilizers	25,546	(f) 26,000	(f) 30,000	(f) 30,000	37,200	45,800
India—						
Ammonium sulphate	411,000	436,000	421,110	431,658	n.a.	n.a.
do. (N content)	82,300	87,100	84,200	81,600	85,000	82,300
Pakistan (d)—						
Ammonium sulphate	51,964	49,724	40,002	37,931	40,456	45,058
Ammonium nitrate	41,884	66,955	61,199	n.a.	n.a.	n.a.
Australia—						
Ammonium sulphate	100,980	86,410	97,370	107,830	111,000	77,680
OTHER COUNTRIES						
Austria (b)—						
(N content)						
Nitrogen fertilizers	169,600	170,700	167,100	181,800	207,736	230,816
Belgium—						
(N content)						
Synthetic ammonia, etc.	276,710	309,740	351,610	391,660	396,609	n.a.
Ammonium sulphate	16,950	13,520	15,930	14,700	13,819	n.a.
Mixed fertilizers	38,450	50,690	59,540	67,950	70,471	n.a.
Technical products	14,520	19,760	23,690	18,790	17,563	n.a.
Bulgaria—						
(N content)						
Nitrogen fertilizers	92,530	99,353	202,150	241,951	292,700	n.a.
Czechoslovakia—						
(N content)	151,485	151,382	155,881	216,313	246,566	(f) 266,000
Denmark—						
Lime ammonium nitrate	—	—	14,566	70,161	n.a.	n.a.
Finland (b)—						
(N content)						
Cyanamide	—	76	135	143	86	50
Ammonium nitrate	13,778	13,262	19,783	23,239	28,261	28,895
Calcium nitrate	—	882	1,312	1,929	3,368	3,536
Other nitrogen fertilizers	30,451	23,042	29,296	38,972	43,351	43,863
Mixed fertilizers	6,029	7,879	8,858	8,619	17,044	28,951
France (e)—						
(N content)						
Ammonium sulphate	79,600	71,800	86,300	87,400	84,500	80,400
Cyanamide	2,533	2,859	2,347	2,573	2,350	3,070
Sodium nitrate	—	3	80	3	800	900
Calcium nitrate	39,200	32,200	41,700	35,100	32,100	n.a.
Ammonium nitrate	451,000	425,800	508,600	611,400	n.a.	n.a.
Ammonium phosphate	(c) 700	700	1,500	500	n.a.	n.a.
Other nitrogen fertilizers	47,100	53,100	64,100	84,800	n.a.	n.a.
Mixed fertilizers	140,900	147,700	193,400	233,600	n.a.	n.a.

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

(a) Source: British Sulphate of Ammonia Federation.

(d) West Pakistan.

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

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

(c) Included with mixed fertilizers.

(f) Estimated.

PRODUCTION OF NITROGEN COMPOUNDS (cont.)

Long tons

Producing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (Federal)—						
Chemical nitrogen						
<i>(N content)</i>						
Fertilizer	1,154,680	1,201,683	1,244,842	1,339,555	1,426,323	1,538,145
Technical use ..	258,164	277,163	330,800	356,399	n.a.	n.a.
Germany (East)—						
<i>(N content)</i>						
Ammonium sulphate	170,405	173,669	168,705	168,717	161,251	157,731
Cyanamide	16,401	15,947	17,854	17,215	16,685	15,502
Lime ammonium nitrate	119,377	117,790	119,436	121,073	123,427	117,643
Potassium ammonium nitrate	13,420	12,492	5,324	15,800	17,658	15,595
Hungary—						
Nitrogen fertilizers ..	347,533	380,839	441,674	711,000	803,000	903,000
Iceland (a)—						
Ammonium nitrate						
<i>(N content)</i>	7,300	6,400	6,600	6,400	8,392	7,993
Italy—						
Ammonium sulphate ..	1,315,190	1,312,500	1,313,346	1,468,058	1,609,749	1,699,476
Ammonium sulpho-						
nitrate	28,299	59,110	43,109	48,703	59,211	31,040
Cyanamide	119,298	111,750	81,181	84,976	121,439	114,638
Sodium nitrate	7,534	6,873	8,728	8,781	6,951	8,667
Potassium nitrate ..	9,441	17,419	71,160	11,546	13,144	25,812
Calcium nitrate	324,875	331,488	354,159	336,605	315,769	324,590
Ammonium nitrate ..	779,442	707,020	584,634	770,889	654,364	745,202
Di-ammonium phosphate						
Ammonium phosphate	339,535	387,151	491,722	456,831	487,161	417,321
Netherlands (a)—						
<i>(N content)</i>						
Ammonium sulphate ..	79,800	69,900	69,900	68,600	77,756	79,144
Ammonium nitrate ..	214,000	214,000	269,900	304,300	258,751	302,810
Calcium nitrate	20,500	23,600	24,600	22,900	22,047	23,274
Other nitrogen fertilizers	79,500	81,700	72,800	98,200	n.a.	n.a.
Mixed fertilizers	34,700	60,600	30,800	24,900	n.a.	n.a.
Norway—						
Cyanamide	2,788	4,104	4,713	4,261	4,392	4,496
Ammonium nitrate ..	13,856	14,034	18,455	19,596	22,270	23,053
Calcium nitrate	1,576,278	1,161,066	1,160,136	1,154,272	1,166,284	785,444
Sodium nitrate	3,015	1,402	1,775	1,401	—	—
Lime ammonium nitrate	115,266	95,265	118,356	147,101	39,821	109,181
Poland—						
Ammonium sulphate ..	159,000	170,000	194,000	217,000	246,000	254,000
Cyanamide	161,000	149,000	179,000	165,000	n.a.	n.a.
"Saletrzak"	571,000	613,000	634,000	601,000	675,000	726,000
Portugal—						
Cyanamide	5,511	10,369	8,724	8,174	9,850	10,036
Ammonium sulphate ..	178,479	244,985	240,856	273,301	247,649	205,433
Ammonium nitrate ..	82,766	166,092	195,646	194,329	200,200	225,023
Calcium nitrate	17,042	15,499	20,367	22,859	14,271	5,033
Roumania—						
Nitrogen fertilizers						
<i>(N content)</i>	43,256	83,510	106,276	163,680	260,063	366,000
Spain—						
<i>(N content)</i>						
Cyanamide	775	747	764	1,353	935	n.a.
Lime ammonium nitrate	49,415	65,676	74,685	90,264	129,374	n.a.
Ammonium sulphate ..	83,180	103,840	128,382	135,100	150,259	n.a.

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

PRODUCTION OF NITROGEN COMPOUNDS (cont.)

Long tons

Producing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES (cont.)						
Sweden—						
Ammonium nitrate ..	12,672	14,032	16,987	13,389	18,750	n.a.
Ammonium sulphate ..	10,059	9,369	8,446	8,160	8,761	n.a.
Cyanamide ..	17,977	9,057	714	8,297	16,305	n.a.
Lime ammonium nitrate	150,440	157,334	187,197	175,813	202,814	n.a.
Mixed fertilizers ..	92,751	141,078	176,029	220,484	235,369	n.a.
Switzerland (a)—						
<i>(N content)</i>						
Cyanamide ..	2,100	2,000	2,000	2,200	2,400	3,200
Ammonium sulphate	4,100	5,200	5,200	5,300	9,300	9,300
Ammonium nitrate ..	5,700	8,100	8,100	8,500	10,000	13,400
Calcium nitrate ..	3,000	3,800	3,500	3,500	3,700	3,500
Mixed fertilizers ..	2,100	4,000	4,000	4,000	n.a.	n.a.
U.S.S.R.—						
Nitrogen fertilizers						
<i>(N content)</i> ..	1,392,000	1,731,000	2,066,000	2,670,000	3,050,000	n.a.
Yugoslavia—						
Ammonium nitrate ..	20,440	11,356	n.a.	n.a.	n.a.	n.a.
Ammonium sulphate ..	10,954	11,269	12,220	11,981	n.a.	n.a.
Cyanamide ..	29,274	29,227	874	1,854	n.a.	n.a.
Egypt—						
Ammonium nitrate ..	338,000	324,618	428,788	370,770	385,461	n.a.
Calcium nitrate ..	268,323	256,916	251,288	273,258	256,614	n.a.
Ammonium sulphate ..	—	28,375	90,205	58,768	96,260	n.a.
South Africa—						
Nitrogen fertilizers						
<i>(N content)</i> ..	58,400	(b) r 70,000	(b) r 71,000	r 75,000	n.a.	n.a.
Mexico—						
Ammonium sulphate ..	154,776	135,804	n.a.	185,867	210,856	225,609
Ammonium nitrate ..	121,989	136,295	n.a.	92,554	143,859	157,078
Netherlands Antilles—						
Nitrogen compounds ..	n.a.	n.a.	102,168	129,077	n.a.	n.a.
Mixed fertilisers ..	n.a.	n.a.	38,840	46,015	n.a.	n.a.
United States—						
Sulphate equivalent of ammonia produced (coke-ovens) ..	598,777	641,766	708,846	717,641	769,649	745,000
Actual ammonium sulphate (coke-ovens)	522,661	553,286	607,935	619,011	681,938	658,000
Actual ammonium sulphate (synthetic plants)	992,000	1,049,000	1,452,000	1,784,000	1,886,000	n.a.
Anhydrous ammonia (synthetic plants) ..	5,187,231	5,975,911	r 6,816,332	r 7,919,162	9,484,364	10,597,935
Ammonium nitrate, original ..	3,041,000	3,536,000	4,056,000	4,128,000	4,479,000	4,996,000
Ammonium phosphate	(b) 1,420,000	2,353,000	2,764,000	2,601,000	3,313,000	3,976,000
Brazil—						
Ammonium sulphate ..	8,151	8,034	10,032	11,646	12,205	12,281
Lime ammonium nitrate	56,144	54,484	24,738	57,707	18,954	25,431
Chile—						
Sodium and potassium nitrate (natural) ..	1,085,129	1,117,932	1,154,386	1,140,152	1,047,081	860,000
Peru (a)—						
Nitrogen fertilizers						
<i>(N content)</i> (c) ..	(b) 61,400	(b) 65,200	n.a.	n.a.	n.a.	n.a.
Formosa—						
Cyanamide ..	77,364	63,064	50,648	26,267	11,440	5,695
Ammonium sulphate ..	69,371	109,633	219,512	275,520	273,036	313,323
Nitro-phosphate ..	—	—	3,521	7,898	5,118	3,809
Nitro-chalk ..	56,743	54,221	62,148	47,843	42,382	63,188
Israel—						
Ammonium sulphate ..	65,438	68,252	78,520	76,522	75,958	66,660

(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	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Japan—						
Ammonium sulphate ..	2,470,000	2,224,000	2,256,000	2,449,000	2,612,000	2,667,000
Cyanamide	297,000	314,000	329,000	339,000	372,000	245,000
Ammonium nitrate ..	51,210	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ammonium chloride ..	485,965	486,656	472,398	494,490	549,540	608,409
Philippine Republic (a)—						
<i>(N content)</i>						
Ammonium sulphate	7,300	} 7,600	(b) 8,000	(b) 9,000	(b) 16,000	(b) 25,000
Ammonium phosphate	—					
Turkey—						
Ammonium sulphate ..	<i>n.a.</i>	87,401	62,484	90,200	85,000	84,900
Ammonium nitrate ..	<i>n.a.</i>	57,865	84,556	62,900	64,000	62,600

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

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

(b) Estimated.

EXPORTS OF NITROGEN COMPOUNDS

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ammonium sulphate ..	359,439	384,722	366,239	417,976	339,010	290,834
Ammonium chloride ..	11,162	11,248	13,938	11,232	11,818	9,601
Ammonium nitrate ..						
Other manufactured nitrogen fertilizers ..	454	3,104	11,621	14,326	17,544	75,988
Anhydrous and liquid ammonia ..	4,346	3,736	3,954	5,697	6,306	15,263
Canada—						
Anhydrous ammonia ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	54,865
Ammonium sulphate ..	(£2,376,851)	(£2,167,006)	(£2,010,432)	(£2,965,482)	(£2,747,264)	(£2,275,520)
Ammonium nitrate ..	(£3,891,663)	(£4,352,326)	(£3,654,737)	(£3,381,919)	(£2,986,401)	(£3,259,519)
Nitrogen-phosphate fertilizers ..	(£6,475,384)	(£4,329,440)	(£3,403,812)	(£6,453,415)	(£7,558,541)	(£8,978,193)
Other nitrogen fertilizers ..	(£4,654,386)	(£5,241,100)	(£5,150,709)	(£4,940,746)	(£4,591,045)	(£5,331,488)
Trinidad and Tobago—						
Ammonium sulphate ..	73,733	82,287	78,825	91,837	115,054	108,173
India (a)—						
Potassium nitrate ..	8	5	—	3	6	—
Sodium nitrate ..	32	4	3	—	—	—
Malaysia (West)—						
Nitrogen fertilizers ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,291	841	2,500
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Potassium nitrate ..	1	1	1	1	—	—
Sodium nitrate ..	60	246	8	26	18	43
Calcium nitrate ..	—	—	—	1	2	27
Ammonium sulphate ..	390,206	390,893	259,044	402,245	(b) 48,366	(b) 55,567
Ammonium chloride ..	106	23	35	46	77	18
Ammonium nitrate ..	167,488	195,161	208,985	281,521	(b) 23,776	(b) 10,320
Cyanamide ..	3,794	2,988	6,597	17,534	(b) 4,368	(b) 3,149
Anhydrous ammonia ..	<i>n.a.</i>	25,887	45,952	49,138	53,692	60,205
Bulgaria—						
Nitrogen fertilizers ..	93,471	75,966	98,599	57,054	18,668	<i>n.a.</i>
France—						
Potassium nitrate ..	2,322	2,762	2,076	1,935	1,939	2,773
Sodium nitrate ..	455	800	571	756	686	1,011
Calcium nitrate ..	15,450	16,667	30,551	95,825	31,202	28,590
Ammonium sulphate ..	149,272	250,820	210,348	215,837	238,641	259,910
Ammonium chloride ..	4	4	47	52	176	1,215
Ammonium nitrate ..	206,484	46,514	44,005	53,364	63,790	63,121
Cyanamide ..	195	57	30	1,661	1,111	705
Anhydrous ammonia ..	5,138	16,040	7,858	27,289	34,468	12,428
Germany (Federal)—						
Potassium nitrate ..	12,254	12,746	14,305	13,949	14,033	16,688
Sodium nitrate ..	19,881	10,706	9,918	5,319	2,358	1,314
Calcium nitrate ..	104,923	109,446	122,481	129,820	94,796	58,972
Ammonium nitrates ..	886,430	1,012,752	700,956	448,740	563,366	688,020
Other nitrogen fertilizers ..	759,096	814,711	728,474	759,463	711,342	911,942
Germany (East)—						
Nitrogen fertilizers (b)	99,512	91,245	65,620	72,014	47,503	69,732
Anhydrous ammonia ..	5,102	755	811	873	977	904
Greece—						
Anhydrous ammonia ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	6,086	17,336
Hungary—						
Nitrogen fertilizers ..	25,313	—	—	—	—	—

(a) Years ended March 31 following that stated.

(b) N content.

EXPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
(cont.)						
Italy—						
Potassium nitrate ..	925	910	80	999	2,476	1,504
Sodium nitrate ..	15	477	65	135	111	275
Calcium nitrate ..	12,795	16,999	4,669	1,986	396	1,482
Ammonium nitrate ..	553,468	411,979	197,956	352,112	206,249	237,289
Ammonium sulphate ..	674,536	908,035	728,796	746,339	754,055	900,260
Cyanamide	514	3,451	1,769	6,826	n.a.	49
Netherlands—						
Potassium nitrate ..	134	70	104	421	639	302
Sodium nitrate ..	63	274	240	372	610	948
Calcium nitrate ..	47,774	37,502	48,750	45,422	7,621	6,714
Ammonium sulphate ..	296,552	363,209	277,931	354,270	47,552	89,952
Ammonium chloride ..	66	22	30	129	156	116
Ammonium nitrate ..	314,819	154,942	120,442	172,137	37,773	58,312
Lime ammonium nitrate						
Anhydrous ammonia ..	2,053	2,140	2,283	5,013	37,845	80,979
Norway—						
Sodium nitrate ..	1,912	1,625	1,901	—	n.a.	n.a.
Calcium nitrate ..	1,119,803	1,173,265	1,138,565	1,231,470	1,005,686	707,423
Ammonium nitrate ..	2,624	7,422	8,549	6,813	5,412	5,196
Cyanamide	536	1,718	1,215	1,471	1,241	1,573
Anhydrous ammonia ..	185	849	737	2,798	9	2
Poland—						
Ammonium chloride ..	n.a.	4,335	3,614	3,595	4,326	4,001
Nitrogen fertilizers ..	n.a.	19,979	25,500	44,000	41,000	84,000
Portugal—						
Ammonium sulphate ..	36,726	39,294	44,808	25,233	37,106	43,903
Ammonium nitrate ..	24	23,146	56,754	34,055	30,240	43,581
Sodium nitrate ..	458	73	140	245	—	1
Calcium nitrate ..	4,440	8,391	10,257	9,198	3,614	4,814
Sweden—						
Ammonium nitrate ..	185	278	1,370	648	1,520	3,019
Switzerland—						
Potassium and sodium nitrates (purified) ..	—	—	—	—	4	4
Ammonium sulphate, etc.	11,883	20,046	26,519	28,589	31,271	21,904
U.S.S.R.—						
Ammonium nitrate ..	75,400	157,000	41,800	8,200	71,000	125,486
Ammonium sulphate ..	397,400	404,000	220,300	325,200	488,000	682,843
Yugoslavia—						
Ammonium nitrate ..	n.a.	n.a.	n.a.	415	1,057	n.a.
Lime ammonium nitrate	n.a.	n.a.	n.a.	n.a.	4,921	n.a.
Cyanamide	598	2,181	46	262	975	1,044
United States—						
Sodium nitrate ..	852	2,129	848	416	562	246
Ammonium nitrate ..	37,699	22,386	78,783	92,604	77,675	36,564
Ammonium sulphate ..	480,816	437,812	431,950	858,572	1,437,553	935,053
Other nitrogen fertilizers ..	55,962	11,877	53,953	30,857	22,000	24,355
Nitrogen phosphatic fertilizers ..	107,607	165,430	324,211	285,404	689,000	1,134,000
Anhydrous ammonia (a)	53,096	67,215	132,571	164,467	201,753	386,486
Chile—						
Sodium nitrate ..	822,000	895,704	870,154	907,664	792,481	623,757
Potassium nitrate ..	60,422					
Israel—						
Anhydrous ammonia ..	2,762	n.a.	n.a.	n.a.	n.a.	n.a.
Japan—						
Cyanamide	280	13	19,807	44,406	48,025	160
Ammonium nitrate ..	11,392	5,892	8,300	20,572	13,587	11,530
Ammonium chloride ..	63,207	322	234,773	176,910	302,097	379,794
Ammonium sulphate ..	850,923	1,207,225	833,218	1,242,930	1,172,469	1,591,605
Anhydrous ammonia ..	50	81	253	595	5,760	7,781
Other nitrogen fertilizers	60,805	6,456	37,350	31,742	62,001	27,968

(a) Ammonia content.

IMPORTS OF NITROGEN COMPOUNDS

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Natural sodium nitrate ..	15,201	13,347	14,952	17,915	19,143	13,414
Manufactured fertilizers—						
Nitrogenous	199,274	314,539	292,196	272,183	180,518	389,896
Ammonium phosphate	14,820	10,904	11,557	3,429	3,222	10,451
Potassium nitrate ..	3,434	2,793	3,029	3,026	4,004	3,965
Anhydrous and liquid ammonia	<i>n.a.</i>	<i>n.a.</i>	1,677	4,303	66,166	155,045
Malta—						
Ammonium sulphate ..	1,131	2,367	2,118	931	561	1,087
Gambia—						
Ammonium sulphate ..	—	—	—	—	—	16
Ghana—						
Ammonium sulphate ..	513	79,436	757	855	5,018	105
Other nitrogen fertilizers	94	7	7	4	—	41
Kenya—						
Ammonium sulphate ..	6,814	4,652	12,157	20,586	8,531	8,659
Other nitrogen fertilizers	10,317	12,916	19,502	26,552	21,668	20,145
Malawi—						
Ammonium sulphate ..	<i>n.a.</i>	<i>n.a.</i>	6,097	7,806	14,071	17,777
Ammonium nitrate ..	<i>n.a.</i>	<i>n.a.</i>	41	200	48	6
Mauritius—						
Nitrogen fertilizers ..	41,861	36,743	26,908	20,393	14,415	18,668
Nigeria—						
Ammonium sulphate ..	3,448	3,040	8,821	14,601	10,948	28,914
Other nitrogen fertilizers	218					
Rhodesia (a)—						
Ammonium sulphate ..	35,720	31,964	53,522	53,996	<i>n.a.</i>	<i>n.a.</i>
Other nitrogen fertilizers	47,856	53,668	61,565	71,713	<i>n.a.</i>	<i>n.a.</i>
Sierra Leone—						
Ammonium sulphate ..	322	571	1	43	388	<i>n.a.</i>
Tanzania—						
Ammonium sulphate ..	3,113	3,465	8,077	8,679	7,976	6,820
Other nitrogen fertilizers	1,959	3,180	5,118	5,981	5,941	4,247
Uganda—						
Ammonium sulphate ..	1,579	2,905	5,015	5,457	5,356	4,761
Other nitrogen fertilizers	2,040	505	1,195	858	447	2,920
Zambia—						
Ammonium sulphate ..	<i>n.a.</i>	<i>n.a.</i>	2,111	11,052	1,134	12,101
Ammonium nitrate ..	<i>n.a.</i>	<i>n.a.</i>	472	616	3,987	7,108
Canada—						
Potassium nitrate ..	815	760	789	1,308	1,443	1,517
Sodium nitrate	15,195	14,955	18,044	19,958	22,997	18,610
Ammonium sulphate ..	12,635	12,731	15,739	13,814	15,278	20,952
Ammonium chloride ..	261	229	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ammonium nitrate ..	67	45	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Anhydrous ammonia ..	1,095	2,903	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Other nitrogen fertilizers <i>r(b)</i>	7,155	<i>r(b)</i> 8,146	<i>r</i> 20,296	<i>r</i> 14,771	16,273	12,471
Antigua—						
Nitrogen fertilizers ..	—	<i>n.a.</i>	3	—	1	85
Barbados—						
Nitrogen fertilizers ..	12,303	12,118	13,683	8,567	10,225	9,540
Grenada—						
Ammonium sulphate ..	595	827	392	372	283	285
Other nitrogen fertilizers	855	690	176	490	77	420
Jamaica—						
Ammonium sulphate	22,522	25,306	33,485	23,188	14,364	26,323
Other nitrogen fertilizers	1,099	2,681	2,139	1,651	6,529	7,043
St. Kitts—						
Nitrogen fertilizers ..	2,306	2,202	2,616	2,433	2,370	99
St. Lucia—						
Nitrogen fertilizers ..	445	899	849	442	311	1,387

(a) Figures for years 1962 and 1963 relate to Rhodesia and Nyasaland.

(b) Owing to reclassification not strictly comparable with the figures for 1964 onward.

IMPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES (cont.)						
St. Vincent—						
Ammonium sulphate ..	868	420	205	871	799	2,985
Trinidad and Tobago—						
Ammonium sulphate .. (c)	390	n.a.	n.a.	200	n.a.	50
Guyana—						
Ammonium sulphate ..	20,703	n.a.	16,923	21,431	23,617	28,052
Ceylon—						
Natural sodium nitrate ..	59	99	61	270	12	—
Ammonium sulphate ..	170,669	166,419	179,036	182,490	175,528	129,640
Ammonium nitrate ..	181	180	334	206	7,899	5,349
Cyanamide ..	24	—	—	25	—	—
Cyprus—						
Ammonium sulphate ..	21,798	26,660	14,872	17,419	28,528	17,950
Other nitrogen fertilizers	9,293	15,945	11,543	13,423	15,082	8,701
Hong Kong—						
Potassium nitrate ..	684	626	423	404	341	634
Sodium nitrate ..	531	596	723	826	947	675
Ammonium sulphate ..	4,862	242	892	659	727	1,015
Synthetic nitrates ..	10	94	45	255	608	494
Ammonium chloride ..	1,051	1,219	1,055	932	1,044	1,360
India (a)—						
Potassium nitrate ..	19	2	2	—	5	—
Sodium nitrate ..	21,771	18,929	9,398	15,545	14,718	2,652
Ammonium sulphate ..	564,238	444,729	445,983	826,596	983,123	865,755
Ammonium nitrate ..	10,114	1,486	1,032	863	33,201	129,748
Ammonium phosphate	9,846	23,581	35,632	46,636	128,902	459,136
Ammonium chloride ..	1	7	2	2,977	6,957	46,298
Other nitrogen fertilizers	20,365	26,826	6,553	22,856	65,301	174,320
Malaysia (West)—						
Nitrogen fertilizers ..	n.a.	n.a.	n.a.	139,140	152,759	120,642
Anhydrous ammonia ..	n.a.	n.a.	n.a.	6,197	6,588	6,271
Pakistan—						
Sodium nitrate ..	241	88	n.a.	n.a.	n.a.	n.a.
Ammonium sulphate ..	107,164	150,873	n.a.	n.a.	n.a.	n.a.
Ammonium chloride ..	443	329	154	n.a.	n.a.	n.a.
Anhydrous ammonia ..	24	46	n.a.	n.a.	n.a.	n.a.
Sabah—						
Ammonium sulphate ..	728	595	n.a.	n.a.	n.a.	n.a.
Other nitrogen fertilizers	35	13	1,979	2,076	1,236	2,339
Sarawak—						
Ammonium sulphate ..	3,698	3,568	n.a.	7,069	5,731	5,717
Other nitrogen fertilizers	358	244	6,680			
Australia (b)—						
Potassium nitrate ..	355	424	403	470	422	1,602
Sodium nitrate ..	7,709	5,611	8,939	7,215	6,506	4,938
Sodium and potassium nitrate ..	1,481	2,183	1,500	4,499	1,120	95
Ammonium chloride ..	1,162	1,424	1,517	2,039	1,475	1,273
Ammonium sulphate ..	17,493	37,458	117,593	71,406	52,558	75,013
Ammonium nitrate ..	576					
Calcium ammonium nitrate	8,330	9,230	9,054	7,845	13,003	13,817
Other nitrogen fertilizers	n.a.	n.a.	n.a.	n.a.	1,055	2,444
Fiji—						
Nitrogen fertilizers ..	n.a.	18,648	29,014	28,518	18,105	19,728
New Zealand—						
Potassium nitrate ..	116	(b) 128	(b) 166	(b) 184	(b) 185	(b) 517
Sodium nitrate ..	2,320	(b) 85	(b) 121	(b) 3,790	(b) 3,923	(b) 2,600
Calcium nitrate ..	n.a.	(b) 639	(b) 644	(b) 1,362	(b) 1,393	(b) 1,853
Ammonium sulphate ..	6,608	(b) 9,850	(b) 6,745	(b) 13,723	(b) 12,557	(b) 12,834
Ammonium chloride ..	n.a.	n.a.	(b) 1,750	(b) 2,034	n.a.	n.a.
Ammonium nitrate ..	1,913	(b) 942	(b) 1,025	(b) 771	(b) 1,886	(b) 996
Anhydrous ammonia ..	83	(b) 114	(b) 92	(b) 147	(b) 127	(b) 128
Cyanamide ..	23	(b) 45	(b) 376	(b) 267	(b) 5	(b) 5

(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	1962	1963	1964	1965	1966	1967
Irish Republic—						
Sodium nitrate ..	4,350	2,865	2,166	973	917	736
Ammonium sulphate ..	97,135	124,531	120,327	81,960	13,589	23,005
Anhydrous ammonia ..	113	119	133	14,398	3,843	15,054
Ammonium nitrate ..	29,063	39,147	28,996	27,407	8,363	10,785
Other nitrogen fertilizers	427	3,267	8,879	4,714	3,164	939
OTHER COUNTRIES						
Austria—						
Calcium nitrate ..	798	861	807	610	440	383
Potassium nitrate ..	320	399	385	507	547	487
Cyanamide ..	2,949	2,758	2,211	1,775	1,629	1,677
Anhydrous ammonia ..	2	2	4	3,097	4,979	9,383
Belgium-Luxemburg						
E. U.—						
Potassium nitrate ..	2,156	2,631	2,809	2,607	2,519	2,614
Sodium nitrate ..	23,910	22,619	33,514	17,913	29,152	17,913
Calcium nitrate ..	10,299	7,437	8,890	9,571	(a) 1,090	(a) 2,156
Cyanamide ..	384	455	501	2,082	(a) 992	(a) 95
Ammonium sulphate ..	11,142	12,105	15,729	22,603	(a) 6,569	(a) 6,260
Ammonium chloride ..	2,314	2,064	2,567	2,449	3,131	2,720
Ammonium nitrate ..	21,705	82,758	82,477	108,210	(a) 10,097	(a) 2,993
Anhydrous ammonia ..	n.a.	1,178	1,759	5,241	13,892	52,882
Bulgaria—						
Nitrogen fertilizers ..	24,300	69,100	5,400	100	62,694	n.a.
Czechoslovakia—						
Nitrogen fertilizers (a)	21,000	43,000	49,000	49,000	40,000	n.a.
Denmark—						
Potassium nitrate ..	1,034	1,206	1,335	1,295	1,314	1,477
Sodium nitrate ..	11,079	25,567	37,275	32,067	18,258	13,940
Calcium nitrate ..	727,037	669,238	580,497	539,356	424,969	292,569
Ammonium sulphate ..	9,975	9,312	9,689	7,047	6,212	4,631
Ammonium chloride ..	695	1,086	954	1,215	1,453	1,262
Ammonium nitrates ..	25,279	23,718	58,368	44,449	11,988	20,821
Cyanamide ..	120	174	141	116	59	54
Finland—						
Potassium nitrate ..	383	168	528	552	461	278
Sodium nitrate ..	356	3,078	2,244	360	643	476
Calcium nitrate ..	60,311	61,758	86,283	65,344	52,117	43,514
Ammonium nitrate ..	2,918	13,657	7,508	31,053	5,035	4,446
Ammonium sulphate ..	34,336	40,031	38,158	50,364	62,431	27,800
Ammonium chloride ..	694	606	1,153	1,517	1,055	1,318
France—						
Sodium nitrate ..	63,885	49,685	64,820	45,591	30,920	24,088
Calcium nitrate ..	119	485	660	1,419	594	1,374
Ammonium sulphate ..	25,007	43,270	49,008	38,465	50,306	34,118
Ammonium nitrate ..	39,402	14,010	8,329	3,335	4,226	8,450
Ammonium chloride ..	1,710	1,961	2,171	1,890	1,835	1,826
Anhydrous ammonia ..	9,530	27,224	39,959	41,759	51,642	60,586
Cyanamide ..	492	2,582	4,171	5,251	6,448	8,694
Germany (Federal)—						
Potassium nitrate ..	1,069	1,188	2,202	3,019	4,577	4,235
Sodium nitrate ..	12,859	11,712	11,173	464	897	34
Ammonium nitrates ..	26,817	81,006	117,580	146,335	196,745	373,177
Ammonium chloride ..	158	359	860	1,504	n.a.	n.a.
Other nitrogen fertilizers	2,182	517	791	9,213	35,865	8,918
Greece—						
Potassium nitrate ..	95	79	104	167	79	91
Sodium nitrate ..	2,882	6,084	5,597	5,110	13,913	5,846
Ammonium nitrate ..	40,174	56,869	38,671	54,587	11,367	60,251
Ammonium sulphate ..	159,907	182,769	125,699	105,746	104,788	26,499
Ammonium chloride ..	250	206	171	123	212	247
Lime ammonium nitrate	74,484	74,049	64,034	30,435	28,186	19,557
Other nitrogen fertilizers						
Anhydrous ammonia ..	407	11,976	1,759	5,600	5,856	14,871

(a) N content.

IMPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES (cont.)						
Hungary—						
Nitrogen fertilizers ..	299,208	463,763	475,095	310,000	265,000	209,636
Iceland—						
Calcium nitrate ..	198	—	5	1	—	—
Lime ammonium nitrate ..	30	6,308	10,266	11,303	6,842	1,777
Nitrophoska ..	—	—	4,486	—	—	—
Italy—						
Potassium nitrate ..	728	1,027	2,081	1,501	1,523	1,744
Sodium nitrate ..	10,688	4,724	140	85	1,365	23,576
Ammonium chloride ..	488	1,492	1,398	1,059	1,005	1,567
Ammonium nitrate ..	3,397	2,999	2,616	1,743	2,535	3,201
Ammonium sulphate ..	850	4,043	112	115	219	1,423
Cyanamide ..	324	1,372	—	—	—	674
Netherlands—						
Potassium nitrate ..	2,477	2,807	2,914	3,146	3,282	3,680
Sodium nitrate ..	29,357	34,238	19,711	32,075	30,753	54,859
Calcium nitrate ..	13	14,042	1	1	—	—
Ammonium sulphate ..	245	2,271	455	650	230	136
Ammonium chloride ..	1,460	1,481	1,779	2,043	1,797	2,143
Ammonium nitrate ..	78,408	95,343	379	303	198	897
Lime ammonium nitrate ..						
Cyanamide ..	3,300	1,369	2,273	4,855	636	563
Anhydrous ammonia ..	119	13,629	19,021	27,078	3,436	1,794
Other nitrogen fertilizers ..	16,060	7,113	35	681	1,835	309
Norway—						
Potassium nitrate ..	215	178	164	240	234	663
Ammonium chloride ..	336	412	416	467	554	448
Ammonium sulphate ..	456	479	407	407	466	260
Anhydrous ammonia ..	13,612	9,310	36,801	20,325	24,098	5,413
Poland—						
Nitrogen fertilizers ..	<i>n.a.</i>	49,300	50,200	280,000	86,000	67,000
Portugal—						
Potassium nitrate ..	291	296	286	430	459	394
Sodium nitrate ..	4,594	12,524	3,100	604	524	3,967
Calcium nitrate ..	—	—	—	—	—	475
Ammonium sulphate ..	—	10,039	24	4,472	50	68
Ammonium chloride ..	102	137	153	143	173	176
Ammonium nitrate ..	1,575	443	10	10	49	39
Cyanamide ..	—	—	—	1,947	—	—
Nitrophoska ..	15,022	14,672	8,326	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Anhydrous ammonia ..	2,872	12,823	—	1,982	—	6
Roumania—						
Nitrogen fertilizers (a)	1,200	3,445	1,900	—	100	<i>n.a.</i>
Spain—						
Sodium nitrate ..	135,790	118,147	123,170	120,295	118,715	70,677
Ammonium sulphate ..	591,856	454,349	519,116	469,619	193,778	100,402
Calcium nitrate ..	131,325	126,785	143,124	126,056	149,497	55,891
Other nitrogen fertilizers ..	38,802	55,740	40,637	61,110	33,876	7,595
Anhydrous ammonia ..	1,839	2,847	1,627	5,405	14,892	3,739
Sweden—						
Potassium nitrate ..	1,129	1,005	1,122	1,206	1,636	1,213
Sodium nitrate ..	27,813	24,815	31,160	33,523	27,361	23,054
Calcium nitrate ..	352,820	352,660	376,481	403,984	457,808	384,212
Ammonium nitrate ..	36	156	325	357	22	—
Ammonium sulphate ..	9,281	11,347	14,233	7,828	4,224	487
Ammonium chloride ..	1,215	1,055	1,265	1,521	1,191	1,491
Switzerland—						
Potassium and sodium nitrates ..	842	933	925	944	1,093	1,122
Ammonium sulphate, etc. ..	607	501	683	827	827	903
Ammonium chloride ..	793	889	993	1,080	832	970
Ammonium and calcium nitrates ..	253	5,266	264	176	446	3,022

(a) N content.

IMPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Yugoslavia—						
Sodium nitrate ..	207	162	28,276	4,529	1,350	<i>n.a.</i>
Ammonium sulphate ..	46,480	95,072	97,250	101,813	134,346	110,590
Ammonium nitrate ..	12,861	10,801	9,428	1,798	497	3,465
Lime ammonium nitrate	467,631	414,818	327,259	129,848	251,618	271,365
Other nitrogen fertilizers	85	6,107	28,009	1,798	225	296
Angola—						
Sodium nitrate ..	221	136	273	35	190	375
Ammonium nitrate ..	1,257	913	1,284	816	1,257	929
Ammonium sulphate ..	4,811	5,443	6,309	8,666	9,888	9,514
Cameroun—						
Nitrogen fertilizers ..	10,743	12,976	32,859	22,037	<i>n.a.</i>	<i>n.a.</i>
Canary Islands—						
Ammonium sulphate ..	62,688	50,112	62,396	55,495	43,432	45,579
Calcium nitrate ..	689	196	1,034	747	936	767
Other nitrogen fertilizers	6,249	3,622	3,246	2,117	6,784	4,852
Central African Republic	<i>n.a.</i>	<i>n.a.</i>	803	1,937	436	2,122
Congo, Republic of ..	<i>n.a.</i>	<i>n.a.</i>	1,141	1,059	1,265	46
Egypt—						
Sodium nitrate ..	248	10	139	71	<i>n.a.</i>	<i>n.a.</i>
Ammonium sulphate ..	60,374	167,117	267,793	387,378	416,170	<i>n.a.</i>
Ammonium nitrate ..	44,293	15,324	32,173	51,446	9,844	<i>n.a.</i>
Ammonium sulpho-nitrate ..	187,760	29,531	26,083	10,779	<i>n.a.</i>	<i>n.a.</i>
Other nitrogen fertilizers	<i>n.a.</i>	133,799	78,275	98,515	82,773	<i>n.a.</i>
Malagasy Republic—						
Nitrogen fertilizers ..	1,376	1,049	1,803	1,776	2,862	3,675
Morocco—						
Potassium nitrate ..	308	231	254	216	172	328
Sodium nitrate ..	228	467	133	71	222	215
Calcium nitrate ..	829	745	458	220	253	49
Ammonium nitrate ..	16,329	7,156	3,626	6,861	18,649	13,581
Ammonium sulphate ..	24,240	24,215	31,378	29,359	42,522	50,088
Other nitrogen fertilizers	3,949	8,443	11,192	9,296	1,983	11,364
Reunion—						
Nitrogen fertilizers ..	7,797	9,967	10,688	10,147	4,912	5,702
South Africa—						
Potassium nitrate ..	849	1,273	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sodium nitrate ..	1,008	983	<i>n.a.</i>	<i>n.a.</i>	1,043	945
Ammonium sulphate ..	60,599	117,179	131,247	42,197	24,326	10,339
Ammonium chloride ..	801	1,111	820	1,636	1,783	2,829
Ammonium nitrate ..	21,957	49,355	738	3,044	993	17,140
Sudan—						
Sodium, calcium and ammonium nitrates (synthetic) ..	62,019	14,387	25,484	59,815	30,573	12,167
Other nitrogen fertilizers						
Tunisia—						
Nitrogen fertilizers ..	13,289	25,869	24,613	16,253	19,814	21,165
Costa Rica—						
Nitrogen fertilizers ..	16,613	11,487	11,948	82,496	29,245	28,059
Cuba—						
Ammonium nitrate ..	51,749	20,177	71,617	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ammonium sulphate ..	213,695	178,349	165,895	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Dominican Republic—						
Ammonium sulphate ..	17,290	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
French West Indies—						
Guadeloupe—						
Nitrogen fertilizers ..	1,578	2,165	2,248	2,887	2,059	1,484
Martinique—						
Nitrogen fertilizers ..	8,310	8,132	7,605	6,648	7,157	6,736
Guatemala—						
Sodium nitrate ..	299	20	153	60	1	148
Other nitrogen fertilizers	7,291	16,216	16,907	33,087	31,191	24,469

IMPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES (cont.)						
Honduras—						
Nitrogen fertilizers ..	11,936	12,410	14,565	20,728	15,647	19,326
Mexico—						
Sodium nitrate ..	9,125	3,074	356	13,183	14,415	15,004
Ammonium chloride ..	343	—	1	332	45	249
Ammonium sulphate ..	3	4	8,264	69,039	55,637	69,386
Ammonium nitrate ..	826	6,129	18,834	41,870	24,387	4,194
Anhydrous ammonia ..	34,785	51,043	73,150	102,383	126,228	189,718
Nicaragua—						
Sodium nitrate ..	<i>n.a.</i>	389	423	124	—	—
Other nitrogen fertilizers	11,777	11,777	3,831	27,163	18,562	25,681
Panama Republic—						
Nitrogen fertilizers ..	11,465	15,319	19,007	22,691	<i>n.a.</i>	<i>n.a.</i>
Salvador—						
Sodium nitrate ..	1,383	592	267	12	248	—
Other nitrogen fertilizers	50,026	76,450	100,810	73,646	56,936	69,731
United States—						
Potassium and sodium nitrates, crude..	27,301	34,000	12,052	6,615	36,000	44,117
Potassium nitrate ..	3,187	3,970	2,824	4,377	24,617	13,799
Sodium nitrate ..	434,000	106,737	324,300	349,949	286,841	194,693
Calcium nitrate..	51,935	37,210	48,875	29,643	34,131	28,795
Ammonium sulphate ..	215,177	209,381	185,682	161,490	143,000	150,000
Ammonium chloride ..	4,607	2,311	<i>n.a.</i>	2,916	<i>n.a.</i>	<i>n.a.</i>
Ammonium nitrate ..	302,322	185,375	212,552	159,796	137,000	158,000
Ammonium phosphates	75,034	115,812	85,845	155,768	160,000	189,081
Cyanamide ..	32,987	25,800	21,428	16,713	16,904	15,874
Argentina—						
Potassium nitrate ..	2	—	—	—	97	57
Sodium nitrate ..	13,791	9,845	10,667	10,590	8,935	10,118
Ammonium sulphate ..	4,324	23,866	38,110	45,081	2,172	29,988
Ammonium chloride ..	1,354	1,003	2,576	1,589	1,516	1,954
Brazil—						
Potassium nitrate ..	802	777	750	894	739	442
Sodium nitrate ..	32,122	34,309	25,304	30,628	27,649	26,737
Potassium and sodium nitrates..	12,104	16,429	7,171	21,296	18,411	9,562
Ammonium chloride ..	1,948	1,363	2,078	1,104	2,540	2,586
Ammonium nitrate ..	5,758	2,180	7,577	100	—	148
Ammonium sulphate ..	115,893	178,611	141,295	206,667	234,346	298,590
Cyanamide ..	165	—	90	41	104	59
Other nitrogen fertilizers	7,324	6,876	9,483	4,294	9,999	10,870
Chile—						
Ammonium chloride ..	496	361	<i>r</i> 587	57	<i>n.a.</i>	<i>n.a.</i>
Ammonium sulphate ..	170	657	<i>r</i> 475	525	<i>n.a.</i>	<i>n.a.</i>
Ammonium nitrate ..	7,866	20,179	<i>r</i> 20,212	20,029	<i>n.a.</i>	<i>n.a.</i>
Anhydrous ammonia ..	50	43	<i>r</i> 131	93	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Potassium nitrate ..	208	401	196	87	498	208
Sodium nitrate ..	384	1,551	20	20	10	133
Ammonium chloride ..	478	684	606	229	375	37
Ammonium sulphate ..	4,758	4,508	491	—	4,020	1,865
Other nitrogen fertilizers	17,047	14,442	6,745	203	2,076	711
Anhydrous ammonia ..	207	122	2	5	5	16
Ecuador—						
Nitrogen fertilizers ..	3,656	5,873	8,857	11,633	<i>n.a.</i>	<i>n.a.</i>
Peru—						
Potassium nitrate ..	63	9	95	156	141	200
Sodium nitrate ..	5,696	4,651	6,508	5,430	2,416	2,544
Anhydrous ammonia ..	24	46	65	16	28	4
Other nitrogen fertilizers	121,955	93,901	85,678	109,833	34,830	92,069
Uruguay—						
Potassium nitrate ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	7	11	31
Sodium nitrate ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	19	510	216
Ammonium sulphate ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	5,303	8,351	1,563

IMPORTS OF NITROGEN COMPOUNDS (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Venezuela—						
Potassium nitrate ..	105	210	177	140	414	3,562
Sodium nitrate ..	478	120	215	184	182	327
Calcium nitrate ..	—	—	—	3	—	—
Ammonium sulphate ..	19,146	18,562	2,267	—	10,000	27,512
Anhydrous ammonia ..	598	798	716	148	—	2
Cyanamide ..	—	—	49	—	—	—
Burma—						
Nitrogen fertilizers ..	180	37,079	13,911	8,934	<i>n.a.</i>	<i>n.a.</i>
Formosa—						
Sodium nitrate ..	<i>n.a.</i>	440	707	1,245	1,241	<i>n.a.</i>
Ammonium chloride ..	633	3,562	400	589	741	<i>n.a.</i>
Ammonium sulphate ..	231,550	105,704	171,009	108,988	22,981	<i>n.a.</i>
Other nitrogen fertilizers	71,978	83,860	75,341	71,394	45,668	<i>n.a.</i>
Indonesia—						
Potassium nitrate ..	224,510	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sodium nitrate ..		<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ammonium chloride ..		<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ammonium sulphate ..		<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Anhydrous ammonia ..		<i>n.a.</i>	<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>	<i>n.a.</i>	<i>n.a.</i>
Iran (a)—						
Ammonium chloride ..	490	185	258	105	286	293
Nitrogen fertilizers ..	5,205	7,503	4,706	7,987	7,173	6,870
Iraq—						
Nitrogen fertilizers ..	6,680	8,337	9,117	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Israel—						
Nitrogen fertilizers ..	19,916	<i>n.a.</i>	2,116	2,517	1,932	1,749
Japan—						
Sodium nitrate ..	18,701	20,143	20,408	22,243	21,659	26,896
Ammonium sulphate ..	2	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Jordan—						
Nitrogen fertilizers ..	2,628	4,521	2,523	3,617	6,840	8,965
Korea (South)—						
Ammonium sulphate ..	602,762	600,023	204,738	339,828	79,732	100,593
Ammonium nitrate ..	14,114	1,604	1,968	2,693	4,114	6,163
Other nitrogen fertilizers	<i>n.a.</i>	58,920	144,791	51,833	112,521	35,695
Lebanon—						
Nitrogen fertilizers ..	30,431	52,983	52,744	50,005	59,334	21,312
Philippine Republic—						
Potassium nitrate ..	<i>n.a.</i>	28	218	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sodium nitrate ..	1,123	732	289	69	<i>n.a.</i>	<i>n.a.</i>
Ammonium phosphate ..	19,708	6,882	15,966	27,711	<i>n.a.</i>	<i>n.a.</i>
Ammonium sulphate ..	102,754	30,844	85,553	95,943	<i>n.a.</i>	<i>n.a.</i>
Other nitrogen fertilizers	35,785	10,122	60,380	27,818	<i>n.a.</i>	<i>n.a.</i>
Syria—						
Nitrogen fertilizers ..	38,307	<i>n.a.</i>	18,192	44,405	59,066	34,009
Thailand—						
Potassium nitrate ..	743	933	855	866	1,198	976
Ammonium chloride ..	1,297	1,533	2,016	1,998	1,991	2,319
Ammonium sulphate ..	28,520	42,349	32,311	26,525	39,181	40,923
Other nitrogen fertilizers	2,765	1,846	1,735	2,163	1,949	1,023
Turkey—						
Potassium nitrate ..	74	296	211	267	587	322
Sodium nitrate ..	348	952	1,688	4,144	1,868	7,503
Ammonium chloride ..	507	359	511	584	646	844
Ammonium sulphate ..	136,731	15,922	31,979	126,829	259,482	294,335
Ammonium nitrate ..	6,302	63	146	9,957	48,026	32,018
Calcium nitrate ..	763	<i>n.a.</i>	<i>n.a.</i>	—	—	11,744
Vietnam (South)—						
Nitrogen fertilizers ..	53,504	182,372	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

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

PETROLEUM AND ALLIED PRODUCTS
PRODUCTION OF CRUDE PETROLEUM*

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Crude petroleum	110,900	122,800	127,400	82,400	76,800	87,400
Shale oil	15,500	—	—	—	—	—
Nigeria (b)	3,373,000	3,824,000	6,027,000	13,564,000	20,881,000	15,962,000
Canada (b)	32,548,687	34,354,904	36,612,711	39,437,267	42,856,000	46,838,000
Barbados (b)	18	3	—	—	—	—
Trinidad (b)	6,982,306	6,954,038	7,103,495	6,979,848	7,943,355	9,284,320
Abu Dhabi (c)	729,000	2,350,000	5,928,853	9,010,743	12,053,582	12,165,510
Bahrain Islands (c)	2,213,000	2,227,000	2,402,000	2,789,000	3,021,000	3,396,000
Brunei	3,720,253	3,383,789	3,488,000	3,874,000	4,619,000	5,095,000
India	1,001,657	1,626,560	2,177,240	2,980,000	4,570,000	6,000,000
Pakistan (b)	463,700	474,900	504,400	520,000	500,000	n.a.
Qatar (c)	8,670,919	8,953,349	8,802,292	9,013,660	8,915,387	9,069,839
Sarawak	57,274	51,126	48,243	48,125	47,336	45,104
Australia	—	—	274,258	329,041	425,437	978,077
New Zealand	569	570	581	616	521	360
TOTAL	59,887,000	64,323,000	73,496,000	88,629,000	105,909,000	109,422,000
OTHER COUNTRIES						
Albania	772,807	738,935	751,661	805,000	861,000	1,070,000
Austria	2,355,883	2,578,480	2,620,829	2,809,460	2,713,568	2,642,506
Bulgaria	196,000	170,000	157,000	225,000	398,000	491,000
Czechoslovakia	174,000	177,000	192,000	189,000	187,000	200,000
France	2,327,419	2,476,219	2,792,152	2,930,890	2,879,131	2,787,000
Germany (Federal)—						
Crude petroleum	6,669,330	7,266,112	7,551,440	7,759,378	7,743,949	7,801,994
Shale oil	1,899	—	—	—	—	—
Hungary	1,614,641	1,729,562	1,772,522	1,775,000	1,679,000	1,659,000
Italy	1,777,353	r 1,755,941	2,627,143	r 2,171,990	1,783,263	1,663,523
Netherlands	2,123,000	2,180,000	2,230,000	2,357,400	2,331,000	2,229,227
Poland	199,300	209,100	277,500	333,400	394,100	443,000
Roumania	11,676,293	12,040,000	12,199,000	12,372,000	12,622,000	12,997,000
Sweden—						
Shale oil	99,187	78,078	79,763	56,465	26,574	n.a.
U.S.S.R.	183,303,000	202,814,000	220,072,000	239,052,000	260,938,000	283,451,000
Yugoslavia	1,501,393	1,585,181	1,770,194	2,030,497	2,187,075	2,336,506
Algeria (e)	20,174,000	23,273,000	25,817,000	25,614,000	32,736,000	37,770,000
Angola	463,793	787,028	890,468	645,014	621,348	528,668
Congo (Republic of)	121,440	107,495	31,987	70,000	61,013	49,210
Egypt	r 4,433,000	r 5,511,000	r 6,251,000	r 6,379,000	6,165,000	n.a.
Gabon	813,958	875,629	1,041,650	1,244,474	1,424,000	3,424,054
Libya	8,691,000	21,748,000	40,913,000	57,550,000	71,100,000	82,100,000
Morocco	125,296	147,534	117,877	101,265	101,344	95,626
Senegal	400	—	—	—	—	—
Cuba (b) (d)	13,000	r 27,000	r 33,000	r 51,000	61,000	101,000
Mexico (b)	15,750,000	16,178,000	16,278,000	16,610,000	17,700,000	18,721,000
United States (b)	356,825,200	367,029,700	371,576,300	379,801,900	403,701,700	428,860,000
Argentina (b)	13,821,175	13,670,100	14,112,500	13,831,100	14,728,400	16,138,800
Bolivia (b)	317,200	384,500	381,700	404,800	738,453	1,780,000
Brazil (b)	4,282,000	4,578,000	4,268,000	4,400,000	5,438,000	6,856,000
Chile	1,500,000	1,695,000	1,756,000	1,630,000	1,594,000	1,583,000
Colombia (b)	7,311,000	8,499,000	8,816,324	10,312,856	10,129,089	9,941,128
Ecuador (b)	342,806	321,499	372,810	379,835	345,100	293,108

*Excluding Natural Gasoline. See page 244.

(a) Years ended June 30 of that stated.

(b) The following conversion rates have been used: 35 gallons=1 barrel, and the undermentioned barrels=1 ton—Nigeria 7.3, Canada 7.5, Barbados 8.1, Trinidad 7.0, Burma 7.4, Pakistan 7.2 (1961—1962) 7.4 (1963 onwards), Cuba 6.8, Mexico 7.1, United States 7.5, Argentina 7.1, Bolivia 8.2, Brazil 7.8, 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	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Peru	2,777,000	2,822,000	r 3,131,000	3,032,000	3,026,000	3,094,000
Venezuela	r164,506,895	r166,990,981	r175,415,532	r179,528,577	173,631,463	182,559,869
Burma	590,021	642,965	562,282	549,000	474,000	608,000
China (a)	(d)6,500,000	(d)6,000,000	(d)6,000,000	(d)8,000,000	(d)8,500,000	d)7,500,000
Formosa	1,850	2,450	8,040	17,295	29,805	32,357
Indonesia	22,424,000	21,923,000	r22,557,000	r23,443,000	22,100,000	24,861,000
Iran (b)	63,461,000	70,497,000	81,114,000	88,473,000	98,829,000	120,919,000
Iraq	48,214,537	55,576,822	60,350,313	63,150,413	66,679,542	58,938,981
Israel	132,000	148,000	202,713	206,905	184,000	130,000
Japan	743,608	767,296	642,096	660,000	765,000	771,000
Kuwait	81,408,294	95,666,630	105,033,846	107,322,975	112,500,000	113,355,644
Mongolia	23,000	19,000	18,000	16,000	<i>n.a.</i>	<i>n.a.</i>
Saudi Arabia	74,554,207	79,768,933	84,442,667	99,436,852	117,568,598	135,000,000
Turkey	586,004	733,168	906,864	1,510,000	2,008,884	2,685,033
Neutral Zone (c)	12,846,000	16,487,000	18,918,000	19,043,000	22,087,000	22,263,000
TOTAL	1,129,000,000	1,219,000,000	r1,307,000,000	1,388,000,000	1,492,000,000	1,508,000,000
WORLD'S TOTAL	1,189,000,000	1,283,000,000	r1,381,000,000	1,477,000,000	1,600,000,000	1,617,000,000

(a) Including oil from shale and coal.

(b) 1954 Oil Agreement Area only.

(c) Neutral Zone of Kuwait and Saudi Arabia.

(d) Estimated.

PRODUCTION OF NATURAL GASOLINE

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Canada	227,380	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Trinidad (a)	22,024	19,364	22,696	22,361	21,359	21,818
Brunei	65,040	68,565	65,000	56,000	55,000	57,000
New Zealand	374	398	405	23	—	—
OTHER COUNTRIES						
Austria	<i>n.a.</i>	2,000	2,000	2,000	2,000	<i>n.a.</i>
France	254,104	265,496	281,240	290,445	285,899	217,000
Germany (Federal)	12,000	12,000	10,000	8,000	<i>n.a.</i>	<i>n.a.</i>
Italy	54,209	r 54,198	62,126	r 38,512	90,745	105,115
Poland	21,100	19,400	20,000	23,200	26,100	<i>n.a.</i>
Roumania	315,044	343,299	346,000	375,000	391,000	<i>n.a.</i>
Yugoslavia	5,000	6,000	10,000	15,000	17,000	18,000
Algeria	199,000	237,000	254,000	547,000	600,000	676,000
Egypt	9,000	7,000	7,000	5,000	5,000	<i>n.a.</i>
Mexico	1,127,000	1,270,000	1,612,000	1,642,000	1,605,000	<i>n.a.</i>
United States	12,027,560	12,944,890	14,174,460	14,621,880	14,911,880	17,330,000
Argentina	10,000	12,000	11,000	13,000	13,000	<i>n.a.</i>
Chile	48,000	60,000	59,000	55,000	58,000	<i>n.a.</i>
Colombia	73,335	74,587	84,854	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Ecuador	12,590	12,420	13,604	13,624	13,667	14,311
Peru	112,000	109,000	106,000	r 105,000	90,000	<i>n.a.</i>
Venezuela	383,911	376,000	411,000	r 425,000	408,000	<i>n.a.</i>
Formosa	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Japan	10,796	18,461	26,153	r 4,000	3,000	3,000
WORLD'S TOTAL (b)	15,000,000	16,000,000	18,000,000	19,000,000	19,000,000	21,000,000

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

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

PRODUCTION OF NATURAL GAS*

Million cubic feet

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom	115	200	200	449	123	16,664
Nigeria	<i>n.a.</i>	1,130	(b) 1,500	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Canada	946,703	1,117,425	1,407,098	1,445,354	1,341,833	1,471,598
Barbados	100	111	80	102	96	108
Trinidad	30,018	29,365	38,452	41,456	48,691	53,747
Brunei	(a) 2,830	(a) 2,377	6,297	7,450	7,100	8,899
Pakistan	42,076	49,459	59,102	66,000	76,000	<i>n.a.</i>
Australia	56	96	106	143	143	152
New Zealand	4	5	5	5	4	4
OTHER COUNTRIES						
Austria	57,734	59,999	62,290	60,873	66,163	63,469
Czechoslovakia	37,720	35,200	r 33,000	30,100	<i>n.a.</i>	<i>n.a.</i>
France	247,384	265,593	280,354	279,768	285,899	302,011
Germany (Federal)	28,345	39,752	61,375	91,399	114,183	148,476
Hungary	12,010	21,590	27,702	39,130	54,810	72,219
Italy	252,521	r 256,654	271,376	r 275,540	311,652	330,330
Netherlands	17,600	20,100	29,500	61,600	123,400	<i>n.a.</i>
Poland	29,000	34,700	43,470	48,660	48,590	55,440
Roumania	455,800	503,700	546,800	610,300	657,400	<i>n.a.</i>
U.S.S.R.	2,596,500	3,172,400	3,834,000	4,508,500	5,048,700	5,593,800
Yugoslavia	3,366	6,748	9,675	11,655	14,208	16,280
Algeria (Sahara)	30,700	40,360	45,700	73,240	72,250	78,790
Gabon	310	304	334	376	406	611
Morocco	350	420	420	390	460	<i>n.a.</i>
Tunisia	253	258	277	288	296	326
Mexico	371,358	401,560	485,050	493,300	529,300	571,674
United States	13,801,244	14,666,559	15,462,143	16,039,753	17,206,628	18,171,000
Argentina	218,299	213,240	232,712	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Brazil	18,056	17,774	18,777	24,125	27,848	30,888
Chile	62,220	67,840	62,900	61,060	55,940	<i>n.a.</i>
Colombia	20,900	24,800	r 26,900	r 32,000	35,990	40,640
Peru	31,000	32,500	37,100	<i>n.a.</i>	<i>n.a.</i>	56,904
Venezuela	183,236	198,111	180,206	227,709	237,868	<i>n.a.</i>
Burma	634	570	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Formosa	1,356	1,789	5,982	10,936	15,509	18,616
Indonesia	96,000	99,000	96,440	86,380	56,540	98,000
Iran	37,143	40,212	42,100	43,400	51,000	<i>n.a.</i>
Israel	375	347	1,041	2,559	3,371	3,860
Japan	42,698	59,845	65,641	62,862	64,510	66,735
Kuwait	46,790	r 53,640	r 59,190	63,350	66,110	69,920

*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: 1962—713; 1963—2,232; 1964—4,027; 1965—4,365; 1966—4,525; 1967—4,770.

Shipments from Bureau of Mines plants: 1962—600; 1963—627; 1964—667; 1965—699; 1966—809; 1967—607.

(a) Sales. (b) Estimated.

PRODUCTION OF ASPHALT ROCK

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
France	101,800	104,523	102,549	114,761	126,632	125,495
Germany (Federal) ..	97,329	91,000	120,054	100,178	85,757	80,318
Italy	313,682	380,461	340,816	r 264,129	287,691	302,089
Angola	35,665	53,876	43,645	22,513	29,444	n.a.
United States (a) ..	1,067,200	1,088,900	1,289,500	n.a.	n.a.	n.a.
Indonesia	5,957	10,323	5,231	n.a.	7,153	n.a.
Philippine Republic ..	6,824	5,104	—	—	—	—

(a) Shipments.

PRODUCTION OF NATURAL ASPHALT, ETC.

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Trinidad	162,613	169,308	r 193,304	r 166,588	157,226	142,444
OTHER COUNTRIES						
Spain	8,366	7,700	9,500	13,119	n.a.	n.a.
United States (a)— Gilsonite	403,300	n.a.	n.a.	n.a.	n.a.	n.a.
Argentina— Grahamite ("Rafaelite")	(b) 713	(b) 828	(b) 1,052	348	829	(b) 314
Impsonite	2,200	4,100	2,400	3,152	4,880	n.a.
Turkey	n.a.	n.a.	n.a.	n.a.	10,672	11,186

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	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom ..	156,000	—	—	—	—	—
OTHER COUNTRIES						
Austria	606	320	44	571	315	589
France	2,883	2,977	3,359	4,119	2,544	3,000
Germany (Federal) (a) ..	96,428	56,929	107,385	136,973	110,563	108,303
Italy	246	295	n.a.	n.a.	n.a.	n.a.
Spain	719,077	798,608	701,139	620,283	220,000	n.a.
Sweden (b)	3,447,067	3,263,446	3,536,385	1,880,165	2,242,370	715,398

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

(a) The amounts used as retort shale were as follows (long tons): 1962—67,898; 1963—nil; 1964—nil; 1965—nil; 1966—nil; 1967—nil.

(b) Alum shale. The amounts used as retort shale were as follows (long tons): 1962—3,174,219; 1963—3,049,010; 1964—3,174,128; 1965—1,419,707; 1966—1,476,310; 1967—n.a.

PRODUCTION OF PETROLEUM REFINERY PRODUCTS IN CERTAIN COUNTRIES*

Long tons

Producing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom (a)—						
Aviation and motor spirit	8,493,000	7,634,000	8,656,000	9,431,000	9,297,000	9,272,000
Other spirit	150,000	156,000	163,000	152,000	172,000	154,000
Kerosine	2,610,000	3,083,000	3,169,000	3,375,000	3,791,000	3,980,000
Gas oil and diesel oil ..	9,966,000	10,788,000	11,993,000	13,423,000	14,663,000	14,005,000
Fuel oil	21,962,000	21,142,000	22,810,000	25,873,000	28,668,000	30,282,000
Fuel used in refineries ..	3,619,000	3,803,000	3,972,000	4,143,000	4,568,000	4,673,000
Lubricating oil	899,000	967,000	1,036,000	1,001,000	1,073,000	994,000
Bitumen	1,220,000	1,305,000	1,458,000	1,422,000	1,577,000	1,722,000
Paraffin wax	38,000	55,000	59,000	53,000	57,000	56,000
Ghana—						
Motor spirit	—	32,288	141,436	128,049	121,158	136,484
Kerosine	—	13,370	46,148	55,631	46,982	39,989
Gas oil	—	71,754	260,561	261,983	198,101	201,952
Fuel oil	—	48,785	255,616	250,335	252,388	264,608
Kenya—						
Motor spirit	—	20,000	215,000	260,000	<i>n.a.</i>	<i>n.a.</i>
Kerosine	—	10,000	115,000	180,000	<i>n.a.</i>	<i>n.a.</i>
Gas and diesel oil	—	21,000	230,000	291,000	<i>n.a.</i>	<i>n.a.</i>
Fuel oil	—	42,000	629,000	676,000	<i>n.a.</i>	<i>n.a.</i>
Asphalt	—	—	11,000	28,000	<i>n.a.</i>	<i>n.a.</i>
Barbados—						
Motor spirit	2,484	2,468	3,076	7,022	11,271	19,816
Kerosine	2,102	2,123	3,010	3,693	9,184	13,137
Gas oil	454	875	—	592	2,923	3,979
Diesel oil	3,777	3,211	9,228	11,819	22,748	29,591
Fuel oil	11,159	11,100	14,547	17,446	19,000	20,565
Asphalt	1,321	1,090	2,803	4,529	4,960	6,080
Canada (b)—						
Aviation spirit	164,765	173,007	162,561	157,432	158,212	153,454
Motor spirit	12,389,273	13,321,500	13,929,830	14,574,753	15,588,628	16,120,783
Naphtha	186,280	225,779	245,726	275,491	282,788	290,769
Kerosine	2,242,058	2,397,362	2,334,603	2,362,426	2,303,135	2,360,522
Aviation turbine fuel ..	868,034	948,340	899,853	867,756	1,030,905	1,001,648
Gas oil, etc.	6,996,664	8,181,244	7,804,947	8,163,654	8,664,550	8,276,930
Diesel oil	4,131,139	4,527,930	4,943,335	5,337,146	5,982,641	6,103,025
Fuel oil	7,639,835	8,369,558	8,620,484	8,689,147	9,393,627	9,849,580
Lubricating oil and grease	227,256	244,051	243,422	240,662	229,877	273,783
Coke	268,139	222,143	169,205	196,141	185,330	211,401
Asphalt	1,475,778	1,586,547	1,691,706	1,796,629	1,947,483	1,996,847
Jamaica—						
Motor spirit	—	—	120,198	187,707	231,646	175,871
Kerosine and jet fuel ..	—	—	68,398	127,819	139,405	96,802
Diesel oil	—	—	170,082	248,978	265,849	197,819
Fuel oil	—	—	555,685	666,471	641,868	487,557
Asphalt	—	—	3,624	16,110	28,529	18,118
Trinidad—						
Aviation spirit	433,791	(d) 107,765	(d) 108,562	(d) 95,965	(d) 223,958	(d) 178,831
Motor spirit	1,516,930	(d) 2,153,195	(d) 2,087,839	(d) 2,024,964	(d) 2,088,016	(d) 2,310,045
White spirit	7,650	8,222	7,260	4,023	34,715	23,770
Kerosine	255,160	229,692	302,046	390,790	407,068	464,512
Aviation turbine fuel ..	1,093,405	974,132	1,201,118	1,808,290	1,719,014	1,483,213
Gas and diesel oil	2,397,588	2,747,295	2,692,921	2,664,524	2,764,360	2,668,836
Fuel oil	9,301,140	10,195,646	10,967,287	11,606,922	12,255,514	11,542,084

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

(a) Including distillation plants.

(b) Including the amount used in the refineries.

(c) Included with "Other products".

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

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

Long tons

Producing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
<i>(cont.)</i>						
Trinidad (cont.)—						
Lubricating oil and greases	278	343	67,640	139,140	168,785	205,229
Bitumen	37,943	36,199	116,940	169,849	266,115	272,646
Other products	69,787	57,681				
Aden—						
Motor spirit etc.	439,000	404,000	390,000	394,000	488,000	327,000
Kerosine	661,000	649,000	764,000	681,000	732,000	532,000
Gas and diesel oil	1,203,000	1,275,000	1,281,000	1,254,000	1,246,000	996,000
Fuel oil	3,256,000	3,346,000	3,520,000	3,730,000	3,557,000	2,915,000
Other products	427,000	404,000	570,000	608,000	612,000	405,000
Bahrain Islands (c)—						
Motor spirit	1,931,000	1,655,000	1,662,000	1,272,000	1,155,000	963,000
Kerosine	569,000	531,000	437,000	399,000	346,000	295,000
Jet fuel	746,000	645,000	823,000	1,055,000	1,182,000	1,671,000
Gas oil and diesel oil	2,700,000	2,618,000	2,081,000	1,683,000	1,683,000	1,761,000
Fuel oil	5,121,000	4,906,000	4,069,000	4,050,000	4,335,000	5,567,000
Lubricating oil	<i>n.a.</i>	—	77,000	115,000	84,000	94,000
Bitumen	87,000	28,000	33,000	—	3,000	3,000
India—						
Motor and other spirits	1,142,926	7,529,230	8,806,687	8,842,500	10,938,900	<i>n.a.</i>
Kerosine	1,149,152					
Gas and diesel oils	1,762,800					
Fuel oil, etc.	1,924,358					
Lubricating oils	25,269					
Bitumen	362,373					
Other refined products	126,649					
Pakistan—						
Motor spirit	108,000	110,000	54,000	113,000	103,000	102,000
Kerosine	28,000	33,000	16,000	37,000	40,000	41,000
Diesel oil	115,000	123,000	61,000	140,000	133,000	128,000
Fuel oil	127,000	144,000	75,000	154,000	136,000	136,000
Lubricating oil	12,000	12,000	6,000	15,000	18,000	15,000
Bitumen	22,000	22,000	16,000	23,000	24,000	20,000
Sarawak—						
Motor spirit	12,500	—	6,800	7,900	218,500	494,000
Gas and diesel oils	1,074,000	394,500	419,300	1,400,600	368,000	379,900
Fuel oil	43,300	15,700	48,600	26,600	13,800	90,500
Feedstocks (a)	1,069,800	1,717,800	1,849,900	839,500	1,741,000	1,680,100
Singapore and Malaysia (West)—						
Motor spirit	(b) 775,000	1,071,000	1,153,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Kerosine	(b) 397,000	271,000	416,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Gas and diesel oils	b 1,257,000	1,376,000	1,745,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Fuel oil	b 2,849,000	3,234,000	3,274,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Australia—						
Aviation spirit	31,880	27,022	30,354	41,001	34,664	37,465
Motor spirit	3,977,627	4,281,400	4,621,548	4,966,106	5,292,876	5,983,011
Kerosine	154,920	174,443	273,799	325,860	358,487	420,909
Aviation turbine fuel	271,595	279,734	346,112	304,087	508,777	671,319
Gas and diesel oils	2,501,940	2,646,557	2,462,321	2,608,253	2,858,383	3,155,132
Fuel oil	4,273,460	4,712,293	4,904,359	5,069,289	5,560,503	5,936,630
do. (used in refineries)	1,078,605	1,291,972	1,495,332	1,666,603	1,802,304	2,066,043
Lubricating oil	15,363	77,581	194,848	252,773	261,655	321,749
Bitumen	298,990	320,872	355,531	384,765	395,596	401,445

(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	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES (cont.)						
New Zealand—						
Motor spirit	247	295	n.a.	n.a.	n.a.	n.a.
White spirit	47	34	n.a.	n.a.	n.a.	n.a.
Kerosine	158	136	n.a.	n.a.	n.a.	n.a.
Diesel oil	176	165	n.a.	n.a.	n.a.	n.a.
Fuel oil	275	299	n.a.	n.a.	n.a.	n.a.
Irish Republic—						
Motor spirit	319,000	332,000	376,000	418,000	343,000	439,000
Kerosine	9,000	n.a.	n.a.	n.a.	n.a.	n.a.
Jet fuel						25,000
Gas and diesel oils ..	463,000	487,000	531,000	610,000	458,000	705,000
Fuel oil	636,000	651,000	740,000	865,000	609,000	926,000
OTHER COUNTRIES						
Albania—						
Motor spirit	47,884	53,867	51,430	44,000	n.a.	n.a.
Kerosine	1,979	2,109	2,302	n.a.	n.a.	n.a.
Diesel oil	74,539	90,559	79,196	77,000	n.a.	n.a.
Austria—						
Motor spirit	273,725	368,211	505,653	633,794	690,341	836,273
Kerosine	36,017	57,021	68,269	50,510	91,809	76,620
Gas oil	771,203	831,366	845,773	836,980	847,007	881,284
Fuel oil	1,194,747	1,370,472	1,565,966	1,755,219	1,819,897	1,963,689
Lubricating oil	117,497	108,988	189,040	182,404	203,485	185,427
Bitumen	111,699	124,660	156,360	184,060	211,623	240,570
Belgium—						
Aviation spirit and aviation turbine gasoline ..	216,650	224,970	244,030	271,960	201,227	201,227
Motor spirit	1,286,240	1,458,880	1,590,977	1,899,821	1,923,903	1,922,002
White spirit, etc. ..	52,200	59,950	59,110	75,360	113,031	n.a.
Kerosine, including aviation kerosine	236,170	324,260	421,230	485,505	553,840	589,544
Gas oil	1,533,980	2,338,950	2,462,830	2,651,050	2,773,301	2,564,574
Diesel oil	970,160	1,363,670	1,634,530	2,032,394	1,930,682	2,128,815
Fuel oil	2,573,640	3,889,990	4,215,265	5,266,032	5,593,005	5,385,400
Lubricating oil	29,800	30,570	36,825	41,537	n.a.	n.a.
Bitumen	381,150	472,960	504,150	404,240	455,888	505,000
Bulgaria—						
Motor spirit	—	67,000	302,000	365,000	411,000	586,000
Kerosine	—	8,000	41,000	73,000	84,000	92,000
Diesel oil	29,000	115,000	486,000	615,000	813,000	925,000
Fuel oil	41,413	261,090	984,572	1,079,804	1,343,000	1,425,000
Lubricating oil	23,000	33,000	44,000	46,000	47,000	n.a.
Czechoslovakia—						
Motor spirit	526,000	n.a.	n.a.	n.a.	n.a.	n.a.
Kerosine	116,000	89,000	108,000	135,000	132,000	n.a.
Diesel oil	1,434,000	1,627,000	1,751,000	2,039,000	2,207,000	n.a.
Denmark—						
Motor spirit	198,929	361,341	584,486	780,457	766,866	1,092,894
Kerosine and gas oil ..		425,043	459,416	534,519		
Diesel oil	474,469	33,848	182,726	352,086	3,229,907	4,532,273
Fuel oil		1,020,606	1,296,415	1,437,855		
Lubricating oil	2,418	2,453	2,739	2,159	4,151	4,024
Grease	3,095	1,672	1,817	2,414	2,054	1,810
Asphalt	24,740	23,069	24,553	25,427	37,892	61,572

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

Producing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
France—						
Motor spirit	6,923,000	7,804,000	8,598,000	9,422,000	10,135,000	10,901,000
Kerosine and jet fuel ..	1,672,000	1,789,000	1,771,000	1,901,000	1,985,000	2,380,000
Gas and diesel oil .. .	4,422,000	4,386,000	4,665,000	5,801,000	6,446,000	6,010,000
Fuel oils	18,218,000	21,949,000	26,251,000	30,800,000	34,420,000	38,898,000
Lubricating oil	683,000	791,000	841,000	797,000	875,000	<i>n.a.</i>
Other products (a) .. .	2,900,000	3,151,000	3,947,000	4,352,000	4,827,000	<i>n.a.</i>
Germany (Federal)—						
Aviation spirit	839,962	1,084,771	r 1,328,879	r 1,398,294	1,523,581	1,589,165
Motor spirit	7,225,298	8,127,307	8,957,683	9,720,428	11,044,838	11,460,374
White spirit	134,634	130,369	143,571	144,173	147,688	128,122
Kerosine	619,415	632,715	669,029	675,517	805,930	986,698
Diesel oil	6,057,543	7,131,679	6,680,977	6,801,165	7,995,434	8,191,482
Fuel oil	19,018,595	22,701,996	31,585,781	37,341,837	42,163,934	44,071,482
Lubricating oil	555,014	544,939	r(b) 815,479	r(b) 854,407	(b) 886,265	(b) 918,671
Grease	17,867	16,962	r(b) 52,277	r(b) 56,356	(b) 52,628	(b) 44,691
Paraffin wax	76,303	95,842	87,207	91,148	100,115	100,434
Coke	382,796	422,777	436,773	414,943	444,244	447,017
Bitumen	1,775,578	2,267,779	2,776,008	3,183,632	3,458,583	3,762,346
Greece—						
Motor spirit	254,536	233,577	248,182	r 235,861	230,938	251,049
Kerosine	135,000	139,691	143,043	131,220	119,264	101,885
Aviation turbine fuel ..	44,488	23,313	30,963	31,501	69,469	70,418
Diesel oil	534,068	594,151	575,752	r 585,789	545,331	569,431
Fuel oil	741,712	r 692,237	698,405	r 698,405	658,893	657,342
Asphalt	47,846	63,150	62,332	r 62,332	51,875	56,611
Hungary—						
Motor spirit	342,905	328,062	364,204	r 389,000	427,000	472,000
Kerosine	67,221	70,943	37,778	20,694	18,485	2,000
Diesel oil	847,326	847,098	944,649	1,028,000	1,115,000	1,241,000
Fuel oil	1,262,263	1,381,142	1,616,987	1,698,000	1,695,000	1,773,000
Lubricating oils	100,112	98,934	109,482	114,211	118,418	<i>n.a.</i>
Grease	18,476	18,399	18,516	18,837	18,660	<i>n.a.</i>
Bitumen	378,064	409,607	448,470	478,000	506,000	571,000
Italy—						
Motor spirit	6,478,411	7,098,878	8,377,303	10,141,324	11,687,624	11,508,450
White spirit	36,730	46,306	42,852	39,276	38,654	43,398
Kerosine	1,350,744	1,504,246	1,597,528	2,302,303	2,879,580	3,420,145
Gas oil	7,487,436	8,811,322	10,171,158	12,109,050	14,023,230	15,706,783
Fuel oil and diesel oil ..	21,268,132	24,780,750	30,104,155	36,104,917	41,630,758	42,570,224
Lubricating oil	169,842	166,458	255,077	342,074	435,636	437,508
Bitumen	881,570	1,005,890	1,207,710	1,208,832	1,278,431	1,459,616
Other products	979,362	1,119,882	1,524,789	1,937,448	2,683,517	1,986,815
Netherlands—						
Motor spirit	3,446,000	3,602,000	2,725,000	2,703,000	2,214,000	2,154,000
White spirit and other solvents	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Kerosine	935,000	955,000	940,000	1,109,000	1,058,000	913,000
Aviation fuels	950,000	843,000	961,000	765,000	1,269,000	1,012,000
Gas and diesel oil .. .	5,379,000	5,082,000	5,930,000	6,463,000	7,713,000	7,947,000
Residual fuel oil .. .	9,484,000	9,995,000	10,770,000	12,684,000	13,201,000	14,051,000
Lubricating oil	242,000	241,000	247,000	327,000	333,000	316,000
Poland—						
Aviation and motor spirit	240,200	296,600	377,100	695,600	805,300	995,200
Kerosine	27,600	20,800	15,700	30,800	20,000	18,700
Gas and diesel oil .. .	411,500	470,400	579,000	901,400	1,080,600	1,243,600
Fuel oil	191,000	223,400	463,000	1,249,200	1,090,800	1,097,100
Lubricating oil	155,200	180,500	168,400	180,600	180,500	187,800
Grease	25,000	25,000	23,800	26,800	30,700	29,700
Paraffin wax	9,900	7,800	10,200	11,700	13,200	13,800
Bitumen	143,400	182,900	200,600	237,200	299,500	343,600

(a) Other than butane and propane.

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

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

Long tons

Producing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Portugal—						
Motor spirit	356,104	373,610	372,554	384,929	392,920	400,979
Kerosine	150,303	162,901	181,174	195,542	182,076	190,916
Jet fuel	11,685	31,282	28,687	38,674	73,447	94,500
Gas and diesel oil	250,519	284,965	316,749	325,766	364,829	362,123
Fuel oil	448,475	502,407	560,832	586,977	558,356	609,194
Roumania—						
Motor spirit	2,362,293	2,396,000	2,472,000	2,419,000	2,312,000	2,260,000
Kerosine and white spirit	1,214,977	1,067,000	974,000	950,000	905,000	<i>n.a.</i>
Gas oil	2,864,085	3,061,000	3,333,000	3,543,000	3,687,000	3,961,000
Fuel oil	3,884,000	3,991,000	3,770,000	3,713,000	3,890,000	<i>n.a.</i>
Bitumen	264,000	290,000	316,000	336,000	364,000	<i>n.a.</i>
Spain—						
Motor spirit	732,000	706,000	1,065,000	1,118,000	1,610,000	2,074,000
Kerosine and jet fuel	367,000	369,000	391,000	379,000	<i>n.a.</i>	<i>n.a.</i>
Gas oil	1,373,000	1,380,000	1,842,000	1,990,000	<i>n.a.</i>	<i>n.a.</i>
Diesel oil						
Fuel oil	2,548,000	2,679,000	3,089,000	3,404,000	<i>n.a.</i>	<i>n.a.</i>
Lubricating oil	94,000	90,000	173,000	198,000	<i>n.a.</i>	<i>n.a.</i>
Sweden—						
Motor spirit	358,749	386,741	492,732	494,145	483,074	<i>n.a.</i>
White spirit etc.	13,554	14,821	10,333	10,346	26,685	<i>n.a.</i>
Kerosine	8,017	4,000	3,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Fuel oil, etc.	1,808,000	1,873,000	2,439,000	2,714,000	2,685,000	<i>n.a.</i>
Lubricating oil	51,768	53,008	57,010	67,909	71,123	<i>n.a.</i>
Asphalt	334,482	367,016	428,667	468,502	506,769	<i>n.a.</i>
Yugoslavia—						
Motor spirit	316,540	338,525	379,471	537,697	775,421	872,006
White spirit	10,427	12,107	15,830	15,372	15,982	16,604
Kerosine	79,706	87,458	96,648	80,406	92,185	92,579
Gas oil	523,847	608,119	690,317	875,752	1,124,155	1,367,063
Fuel oil	484,394	472,471	672,656	1,129,916	1,736,284	1,787,319
Lubricating oil	97,506	110,481	124,321	132,031	155,309	135,820
Bitumen	112,036	117,924	148,468	110,580	<i>n.a.</i>	<i>n.a.</i>
Other products	6,317	7,415	10,679	15,767	<i>n.a.</i>	<i>n.a.</i>
Angola—						
Motor spirit	49,691	64,235	72,663	54,864	59,166	54,997
Kerosine	3,806	9,435	22,815	6,843	6,930	7,197
Jet fuel	—	—	—	36,420	43,371	41,729
Gas and diesel oil	89,628	123,559	122,195	116,029	128,838	105,439
Fuel oil	184,731	251,901	284,843	286,580	336,488	356,896
Asphalt	2,105	6,304	7,514	10,313	10,697	7,458
Canary Islands—						
Motor spirit	506,807	570,501	552,320	702,401	584,586	610,785
Kerosine	120,767	135,744	182,680	208,777	267,425	129,848
Jet fuel	44,406	58,792	3,873	15,055	<i>n.a.</i>	<i>n.a.</i>
Gas oil	643,736	864,053	339,586	860,002	896,163	1,079,443
Diesel oil	236,325	214,624	269,026	198,264	230,819	203,581
Fuel oil	1,961,388	2,453,337	2,722,368	3,439,980	3,546,668	3,864,101
Lubricating oil	28,426	29,635	36,642	53,430	58,545	57,454
Asphalt	154,764	150,338	227,020	219,701	189,533	137,980
Egypt—						
Motor spirit	543,791	702,025	744,814	845,243	835,472	<i>n.a.</i>
Kerosine	535,745	796,996	968,134	839,278	908,823	<i>n.a.</i>
Jet fuel	47,117	29,215	11,629	38,049	23,475	<i>n.a.</i>
Gas and diesel oil	880,753	1,021,560	1,180,372	1,216,104	1,429,559	<i>n.a.</i>
Fuel oil	2,778,036	3,335,614	4,170,900	4,606,845	4,129,710	<i>n.a.</i>
Asphalt	150,390	140,740	148,394	131,398	131,843	<i>n.a.</i>
Morocco—						
Motor spirit	75,400	251,200	165,000	240,000	240,000	<i>n.a.</i>
Kerosine	26,000	76,600	62,000	66,000	66,000	<i>n.a.</i>
Gas and fuel oils	200,700	559,600	639,000	692,000	880,000	<i>n.a.</i>

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

Long tons

Producing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Mozambique—						
Motor spirit	90,337	101,582	100,022	102,789	115,692	130,391
Gas oil	110,448	127,544	131,706	145,903	189,466	220,994
Fuel oil	211,025	247,776	242,372	237,870	293,917	342,364
South Africa—						
Motor spirit	591,000	592,000	1,394,000	1,304,000	1,562,000	<i>n.a.</i>
Kerosine	142,000	184,000	158,000	135,000	155,000	<i>n.a.</i>
Jet fuel	31,000		74,000	88,000	111,000	<i>n.a.</i>
Gas and diesel oil	422,000	533,000	1,209,000	1,208,000	1,361,000	<i>n.a.</i>
Fuel oil	343,000	840,000	1,899,000	1,523,000	1,939,000	<i>n.a.</i>
Costa Rica—						
Motor spirit	—	—	—	—	—	20,554
Diesel oil	—	—	—	—	—	36,559
Fuel oil	—	—	—	—	—	23,066
Kerosine	—	—	—	—	—	3,619
Guatemala—						
Motor spirit	—	<i>n.a.</i>	<i>n.a.</i>	102,421	136,064	135,125
Kerosine	—	<i>n.a.</i>	<i>n.a.</i>	26,689	40,227	39,568
Aviation turbine fuel	—	<i>n.a.</i>	<i>n.a.</i>	2,124	22,645	19,367
Diesel oil	—	<i>n.a.</i>	<i>n.a.</i>	96,868	155,564	167,965
Fuel oil	—	<i>n.a.</i>	<i>n.a.</i>	149,739	194,550	220,788
Mexico—						
Aviation spirit	71,057	71,935	77,158	87,834	70,715	70,988
Motor spirit	3,141,662	3,191,105	3,201,917	3,256,798	2,838,710	3,113,000
Kerosine	1,424,619	1,464,242	1,544,313	1,533,429	1,575,214	1,697,975
Gas and diesel oil	2,821,797	3,131,505	3,910,210	4,116,314	4,535,570	5,115,221
Fuel oil	6,584,388	6,194,844	5,821,877	6,102,767	5,875,307	6,328,194
Lubricating oil	153,978	164,925	171,854	190,893	182,030	187,941
Grease	6,276	6,400	6,546	6,963	6,317	8,605
Paraffin wax	38,610	41,547	46,251	45,767	45,424	49,909
Asphalt	328,000	319,000	369,000	504,000	959,000	999,824
Netherlands Antilles (b)—						
Aviation spirit	1,601,000	1,563,000	1,558,000	1,504,000	1,138,000	1,062,000
Motor spirit	2,424,000	2,508,000	2,825,000	3,031,000	3,109,000	3,248,000
White spirit	61,000	56,000	74,000	72,000	50,000	61,000
Kerosine	830,000	859,000	724,000	642,000	444,000	530,000
Aviation turbine fuel	2,264,000	<i>n.a.</i>	2,882,000	3,008,000	3,641,000	4,168,000
Gas oil	4,378,000	4,705,000	3,488,000	2,836,000	3,701,000	2,790,000
Diesel oil	1,302,000	1,465,000	1,678,000	1,245,000	1,396,000	1,466,000
Fuel oil	21,802,000	21,357,000	21,858,000	21,860,000	19,453,000	20,579,000
Lubricating oil	814,000	599,000	809,000	939,000	654,000	420,000
Asphalt	835,000	808,000	898,000	865,000	934,000	999,000
Nicaragua—						
Motor spirit	—	(a) 41,000	79,000	77,000	85,000	92,000
Kerosine	—	(a) 15,000	21,000	19,000	22,000	28,000
Gas and diesel oil	—	(a) 28,000	55,000	64,000	69,000	82,000
Fuel oil	—	(a) 58,000	67,000	45,000	66,000	82,000
Panama—						
Motor spirit	(a) 135,000	257,000	235,000	307,000	335,000	<i>n.a.</i>
Kerosine	(a) 79,000	67,000	75,000	94,000	75,000	<i>n.a.</i>
Jet fuel	(a) 5,000	25,000	48,000	43,000	65,000	<i>n.a.</i>
Gas and diesel oil	(a) 187,000	597,000	614,000	689,000	861,000	<i>n.a.</i>
Fuel oil	(a) 451,000	929,000	976,000	1,047,000	1,268,000	<i>n.a.</i>
Salvador—						
Motor spirit	—	86,121	117,441	113,669	<i>n.a.</i>	122,810
Kerosine	—	33,550	46,556	54,577	<i>n.a.</i>	64,954
Diesel oil	—	202,662	119,117	232,826	<i>n.a.</i>	150,322
Lubricating oil	—	<i>n.a.</i>	169,662	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
United States—						
Aviation spirit	13,586,000	13,800,000	14,203,000	199,000,000	209,000,000	212,000,000
Motor spirit	167,668,000	172,246,000	178,973,000			
Kerosine (c)	20,030,000	21,120,000	21,575,000	36,352,000	40,418,000	47,556,000
Jet fuels (military)	13,016,000	12,646,000	13,745,000			

(a) United States Bureau of Mines' estimate. (b) Exports. (c) Including commercial jet fuel.

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

Long tons

Producing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
United States <i>(cont.)</i> —						
Distillate fuel oil ..	97,705,000	103,808,000	100,738,000	103,858,000	106,628,000	109,198,000
Residual fuel oil ..	43,120,000	40,237,000	38,912,000	39,166,000	38,494,000	40,244,000
Lubricating oil ..	8,605,000	8,832,000	8,914,000	8,810,000	9,157,000	9,082,000
Paraffin wax ..	669,000	641,000	669,000	682,000	722,000	715,000
Coke ..	14,058,000	14,409,000	15,058,000	15,364,000	15,724,000	16,238,000
Asphalt ..	17,778,000	18,173,000	18,649,000	20,066,000	21,036,000	20,741,000
Road oil ..	1,126,000	1,081,000	1,014,000	1,044,000	1,153,000	1,110,000
Argentina—						
Aviation spirit ..	44,800	35,100	42,700	21,200	50,800	60,800
Motor spirit ..	2,672,600	2,532,200	2,730,900	3,092,900	3,300,000	3,409,500
Kerosine ..	1,183,600	972,200	1,140,000	982,690	907,900	853,900
Gas oil ..	1,053,200	1,424,400	1,382,900	1,940,600	2,402,600	2,518,200
Diesel oil ..	971,700	1,184,000	1,048,800	1,082,900	1,187,900	1,169,700
Fuel oil ..	6,774,600	6,288,500	6,829,700	7,691,700	7,876,700	7,727,700
Lubricating oil ..	129,300	108,100	126,400	141,500	128,800	115,000
Bolivia—						
Motor spirit ..	117,799	115,719	129,095	135,476	155,070	173,000
Kerosine ..	54,775	54,736	59,409	65,145	72,663	83,000
Diesel oil ..	59,997	57,005	61,213	72,083	74,222	n.a.
Fuel oil ..	92,193	106,352	115,127	119,324	125,775	82,000
Brazil—						
Motor spirit ..	3,532,000	3,764,000	4,068,000	4,201,000	4,756,000	4,798,000
Kerosine ..	555,000	516,000	582,000	524,000	608,000	767,000
Diesel oil ..	2,683,000	3,052,000	3,560,000	3,784,000	3,891,000	4,058,000
Fuel oil ..	5,653,000	5,993,000	5,780,000	5,144,000	5,635,000	5,882,000
Lubricating oil ..	1,788	6,934	400	5,000	—	—
Paraffin wax ..	16,189	10,410	572	6,135	3,231	131
Asphalt ..	227,216	253,941	203,601	287,225	394,533	495,389
Chile—						
Aviation spirit ..	48,950	40,930	45,660	769,000	860,000	975,000
Motor spirit ..	676,800	651,850	695,820			
Kerosine ..	203,910	233,660	242,920	165,000	258,270	293,500
Diesel oil ..	340,420	361,450	418,410	940,000	1,320,000	1,530,000
Fuel oil ..	583,030	562,170	591,390			
Colombia—						
Aviation spirit ..	66,803	62,861	60,016	87,293	131,000	82,847
Motor spirit ..	1,181,487	1,190,552	1,257,750	1,375,405	1,525,000	1,475,979
Other spirit ..	65,100	58,400	63,600	n.a.	n.a.	n.a.
Kerosine ..	236,223	230,285	228,143	246,918	268,000	323,274
Jet fuel ..	22,152	19,539	24,862	31,000	50,000	66,892
Gas oil ..	—	7,431	n.a.	n.a.	n.a.	40,322
Diesel oil ..	556,314	549,533	563,666	605,562	647,000	728,702
Fuel oil ..	1,528,069	1,340,586	1,274,819	1,462,791	1,669,000	2,110,210
Lubricating oil and grease ..	19,443	20,107	52,722	58,529	60,600	58,107
Coke ..	91,835	93,549	96,487	n.a.	n.a.	125,463
Asphalt ..	67,528	53,757	67,591	66,194	68,900	94,032
Ecuador—						
Motor spirit ..	110,160	134,430	233,739	247,521	248,000	261,251
Kerosine ..	40,822	45,743	53,841	57,239	60,600	63,412
Aviation turbine fuel ..	n.a.	n.a.	6,937	23,041	n.a.	38,942
Diesel oil ..	95,374	111,100	117,493	131,672	143,000	164,055
Residual fuel oil ..	177,550	169,870	189,018	215,846	219,000	226,516
Peru—						
Aviation spirit ..	7,000	5,000	5,000	6,000	4,000	4,000
Motor spirit ..	616,000	625,000	659,000	686,000	791,000	837,000
Kerosine ..	381,800	380,000	398,000	416,000	439,000	463,000
Aviation turbine fuel ..	62,700	62,000	92,000	100,000	131,000	150,000
Diesel oil ..	818,800	792,000	808,000	855,000	n.a.	n.a.
Fuel oil ..	404,000	661,000	735,000	792,000	841,000	897,000
Lubricating oil and grease ..	11,000	8,000	11,000	12,000	11,000	11,000

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

Long tons

Producing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Uruguay—						
Motor spirit	284,842	251,538	257,373	255,675	263,815	261,064
Kerosine	167,212	165,549	175,300	161,996	165,992	159,522
Aviation turbine fuel ..	17,181	14,322	15,585	14,006	16,459	18,894
Gas oil	188,567	190,840	239,142	230,589	234,297	234,927
Diesel oil	47,988	66,041	62,390	63,527	70,219	59,437
Fuel oil	660,166	601,394	625,405	720,875	701,573	701,059
Lubricating oil	313	473	766	355	470	144
Asphalt	18,900	14,900	12,800	13,200	20,100	13,000
Venezuela—						
Motor spirit	5,570,306	5,824,489	5,469,000	5,998,000	5,808,000	<i>n.a.</i>
Kerosine	1,294,876	1,125,419	1,490,000	1,218,000	772,000	641,000
Gas and diesel oils ..	10,187,728	10,792,154	10,534,000	9,982,000	9,766,000	<i>n.a.</i>
Fuel oil	30,934,189	31,267,995	34,092,000	37,444,000	37,777,000	40,000,000
Lubricating oil	567,210	616,000	649,600	521,000	524,000	530,000
Asphalt	1,070,000	839,000	865,000	877,000	787,000	870,000
Burma—						
Motor spirit	148,194	142,090	139,450	151,000	155,000	<i>n.a.</i>
Kerosine	89,229	108,720	117,330	139,000	188,000	178,000
Jet fuel	21,842	25,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Diesel oil	167,940	171,130	181,380	139,000	<i>n.a.</i>	<i>n.a.</i>
Fuel oil	48,521	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Paraffin wax	17,143	18,631	13,824	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Coke	12,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Formosa—						
Aviation spirit	} 229,000	237,000	249,000	257,000	314,000	332,000
Motor spirit						
Kerosine	31,000	31,500	31,300	24,100	27,100	20,600
Jet fuel	(b) 168,000	(b) 145,000	177,000	213,000	<i>n.a.</i>	<i>n.a.</i>
Diesel oil	219,900	185,800	234,200	295,900	321,600	415,500
Fuel oil	521,300	561,300	573,700	852,900	1,080,400	1,034,100
Lubricating oil	—	—	—	4,100	17,100	17,300
Asphalt	67,232	51,202	39,852	52,716	78,384	101,600
Indonesia—						
Aviation spirit	r 82,000	r 61,000	33,000	21,000	16,000	<i>n.a.</i>
Motor spirit	r 1,806,000	r 1,700,000	1,345,000	1,531,000	1,229,000	1,186,000
Kerosine	r 1,615,000	r 1,473,000	1,386,000	1,306,000	1,262,000	<i>n.a.</i>
Fuel oil	3,949,000	3,705,000	2,956,000	2,255,000	2,086,000	<i>n.a.</i>
Jet fuel	127,000	133,000	72,000	134,000	177,000	<i>n.a.</i>
Gas and diesel oils ..	2,704,000	2,352,000	2,343,000	1,647,000	1,489,000	<i>n.a.</i>
Iran (a)—						
Aviation spirit	566,000	554,000	563,000	710,000	725,000	722,000
Motor spirit	2,100,000	2,038,000	1,904,000	1,882,000	1,996,000	2,025,000
Kerosine	2,127,000	1,925,000	2,217,000	1,823,000	1,805,000	1,865,000
Aviation turbine fuel ..	712,000	896,000	925,000	1,197,000	1,292,000	1,263,000
Gas and diesel oils ..	3,005,000	2,898,000	2,741,000	2,866,000	3,034,000	3,019,000
Fuel oil	7,541,000	7,895,000	8,189,000	8,377,000	8,462,000	8,925,000
Lubricating oil	19,000	25,000	35,000	44,000	52,000	46,000
Bitumen	223,000	169,000	193,000	174,000	222,000	310,000
Iraq—						
Motor spirit	264,756	257,996	278,298	292,000	<i>n.a.</i>	<i>n.a.</i>
Kerosine	371,524	382,116	459,133	451,000	<i>n.a.</i>	<i>n.a.</i>
Aviation turbine fuel ..	<i>n.a.</i>	27,015	43,614	44,000	<i>n.a.</i>	<i>n.a.</i>
Gas oil	214,303	228,960	310,342	} 576,000	<i>n.a.</i>	<i>n.a.</i>
Diesel oil	187,117	181,120	218,842			
Fuel oil	1,032,469	1,004,215	1,142,536	1,145,000	<i>n.a.</i>	<i>n.a.</i>
Israel—						
Motor spirit	272,105	310,000	347,000	(b) 379,000	(b) 477,000	(b) 534,000
Kerosine	232,769	239,000	308,000	<i>n.a.</i>	(b) 252,000	(b) 282,000
Gas and diesel oils ..	548,444	717,000	791,000	(b) 1,310,000	(b) 903,000	(b) 1,020,000
Fuel oil	890,849	1,091,000	1,241,000	(b) 1,376,000	(b) 1,424,000	(b) 1,595,000

(a) Abadan Refinery only.

(b) Estimated.

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

Long tons

Producing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Japan—						
Aviation spirit	57,675	62,022	68,141	} 7,870,000	9,080,000	10,413,000
Motor spirit	5,715,077	6,628,860	7,096,906			
Kerosine	2,364,045	3,151,229	3,571,549	4,440,000	5,062,000	6,918,000
Jet fuel	432,075	546,788	806,754	1,030,000	1,198,000	1,951,000
Gas oil	2,995,404	3,815,205	4,563,959	5,155,000	6,068,000	6,853,000
Diesel oil	1,473,107	1,629,237	2,116,674	2,516,000	3,368,000	4,167,000
Fuel oil	20,356,971	27,336,602	32,887,532	38,260,000	45,630,000	55,683,000
Lubricating oil	527,216	525,372	625,991	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Paraffin wax	48,327	51,790	63,556	68,000	<i>n.a.</i>	<i>n.a.</i>
Asphalt	613,095	654,916	920,744	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Jordan—						
Motor spirit	41,075	45,450	52,259	60,223	76,153	70,707
Kerosine	51,386	53,833	64,915	66,760	69,505	68,882
Gas oil	111,207	114,836	106,488	130,130	133,772	117,505
Fuel oil	40,542	47,712	75,147	80,529	89,527	89,532
Asphalt	18,677	27,049	26,474	28,492	40,498	29,895
Korea (South)—						
Motor spirit	—	—	66,810	161,768	231,583	308,414
Kerosine	—	—	40,133	65,105	93,437	172,897
Jet fuel	—	—	—	53,592	94,117	106,897
Diesel oil	—	—	157,170	420,173	527,598	557,787
Fuel oil	—	—	396,563	675,491	762,947	1,061,478
Kuwait—						
Motor spirit	162,000	180,000	186,000	193,000	218,000	260,000
Kerosine	56,000	64,000	67,000	69,000	85,000	92,000
Gas and diesel oils	2,084,000	2,402,000	2,623,000	2,561,000	2,739,000	2,401,000
Fuel oil	5,548,000	5,754,000	6,181,000	6,252,000	6,312,000	6,301,000
Bitumen	22,000	28,000	19,000	13,000	26,000	35,000
Lebanon—						
Motor spirit	121,433	159,000	221,054	280,000	248,000	298,000
Kerosine	100,813	121,900	119,920	126,500	153,000	177,000
Gas oil	161,053	173,500	216,146	230,000	226,000	265,000
Fuel oil	408,543	518,150	617,714	755,000	725,810	877,000
Philippine Republic—						
Motor spirit	841,700	965,500	1,050,000	1,087,000	1,193,000	1,427,000
Kerosine	} 294,800	} 273,000	292,900	279,100	426,000	} 364,000
Jet fuel			73,600	94,600	133,000		n.a.
Gas and diesel oil	671,600	854,500	968,000	976,000	1,060,000	<i>n.a.</i>
Fuel oil	940,500	1,118,000	1,401,000	1,617,700	1,991,000	2,420,000
Saudi Arabia—						
Aviation spirit	34,862	37,657	40,853	27,099	36,279	13,000
Motor spirit	955,557	1,219,834	1,519,692	1,956,815	2,025,421	2,340,000
Kerosine	480,420	487,585	415,685	278,760	244,537	364,000
Jet fuel	563,282	595,458	748,920	1,062,143	1,307,877	1,200,000
Diesel oil	1,683,032	2,071,339	1,898,714	1,741,322	2,191,489	2,216,000
Fuel oil	7,611,459	7,809,318	8,270,362	9,305,802	8,798,702	9,421,000
Asphalt, etc.	57,112	46,330	59,811	44,663	104,010	<i>n.a.</i>
Syria—						
Motor spirit	(a) 130,000	123,000	(a) 140,000	154,000	163,000	<i>n.a.</i>
Kerosine	(a) 93,000	104,000	(a) 118,000	135,000	142,000	<i>n.a.</i>
Gas and diesel oil	(a) 199,000	255,000	(a) 290,000	276,000	<i>n.a.</i>	<i>n.a.</i>
Fuel oil	(a) 284,000	324,000	(a) 369,000	383,000	407,000	<i>n.a.</i>
Turkey—						
Motor spirit	514,611	532,578	626,000	687,000	750,000	784,324
Kerosine	277,484	389,357	469,000	417,000	415,000	368,012
Jet fuel	—	—	14,000	65,000	80,000	172,605
Diesel oil	605,993	885,000	1,095,000	1,110,000	1,282,000	1,239,212
Fuel oil	1,097,364	1,406,693	1,640,000	1,670,000	1,900,000	2,266,277
Asphalt	88,683	117,509	99,000	131,000	137,000	182,929

(a) United States Bureau of Mines' estimate.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS*

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Crude petroleum (f) ..	994,829	1,420,842	338,542	267,809	125,485	189,316
Aviation spirit (bunkers) (a) ..	40,029	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Aviation spirit ..	259,208	180,071	116,719	134,957	143,471	146,856
Aviation turbine fuel (d) ..	338,910	347,064	380,122	455,554	373,776	288,820
Motor spirit ..	1,096,401	877,657	774,103	979,663	1,000,728	994,414
Other spirit ..	50,799	167,783	157,662	113,841	150,725	163,282
Kerosine (e) ..	815,140	697,914	560,870	654,757	724,566	739,497
Gas oil ..	2,684,097	2,956,580	2,964,586	3,333,104	3,482,086	3,445,056
Diesel oil ..	393,370	396,167	285,984	480,128	488,367	362,247
Fuel oil ..	3,251,910	3,169,343	3,155,000	3,869,586	4,753,153	4,568,421
do. (bunkers) (a) ..	3,227,644	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Lubricating oil ..	574,952	513,133	519,037	478,961	538,668	503,843
Greases (c) ..	32,834	33,846	34,966	33,391	30,873	30,878
Other heavy oils ..	11,383	81,688	190	7,065	3,053	1,914
Petroleum jelly ..	<i>n.a.</i>	435	530	635	1,072	706
Petroleum waxes ..	6,643	8,348	6,077	4,561	3,428	3,883
Malta (bunkers) (b)—						
Aviation spirit ..	11,936	12,030	5,003	8,719	9,066	5,157
Aviation turbine fuel ..	31,282	38,265	1,793	40,736	66,630	56,772
Gas oil ..	6,000	6,580	12,048	8,209	4,968	7,488
Diesel oil ..	—	—	—	5,215	8,772	10,583
Fuel oil ..	3,669	2,081	10,507	8,876	21,506	45,549
Ghana—						
Gas oil (bunkers) ..	—	151	13,198	7,425	<i>n.a.</i>	<i>n.a.</i>
do. do. (b) ..	9,323	1,311	2,780	16	<i>n.a.</i>	<i>n.a.</i>
Diesel oil (bunkers) (b) ..	2,805	282	23,673	435	<i>n.a.</i>	<i>n.a.</i>
Fuel oil ..	—	17,299	196,634	183,536	206,257	233,331
do. (bunkers) (b) ..	6,654	793	3,201	550	<i>n.a.</i>	<i>n.a.</i>
Lubricating oil (bunkers) (b) ..	113	16	282	209	<i>n.a.</i>	<i>n.a.</i>
Kenya—						
Aviation spirit (bunkers) (b) ..	3,658	4,605	2,964	2,287	2,091	1,374
Motor spirit ..	—	<i>n.a.</i>	4,540	5,322	27,503	28,526
do. (bunkers) ..	(b) 816	(b) <i>n.a.</i> 6	(b) 2	(a) 1	13	(a) 1
Aviation turbine fuel (bunkers) ..	(b) 41,710	(b) 41,008	(b) 41,649	81,271	78,959	83,995
Kerosine ..	—	<i>n.a.</i>	2,186	3,512	7,713	7,888
Gas, diesel and fuel oils do. bunkers ..	(b) 135,371	(b) 124,472	(a) 134,614	(a) 135,768	171,183	518,828
Lubricating oil (bunkers) (b) ..	522	490	375	468	616	1,252
Asphalt and bitumen ..	—	<i>n.a.</i>	2,583	10,048	16,107	17,074
Mauritius (bunkers) (b)—						
Aviation spirit ..	1,977	1,615	<i>n.a.</i>	2,243	2,111	1,074
Aviation turbine fuel ..	718	1,427	<i>n.a.</i>	2,627	3,150	8,071
Fuel oils ..	14,141	8,224	<i>n.a.</i>	20,331	25,707	74,216

*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 242).

(a) Including foreign produce.

(e) Including kerosine jet type fuel.

(b) Foreign produce. See imports.

(f) Including partly refined.

(c) Including cable impregnating compounds.

(d) Wide cut gasoline.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
<i>(cont.)</i>						
Nigeria—						
Crude petroleum ..	3,367,504	3,694,981	5,782,608	13,019,779	18,945,374	14,773,521
Motor spirit ..	—	—	—	—	51,520	15,511
do. (bunkers) ..	—	—	—	—	743	—
Aviation spirit ..	—	—	—	—	1,415	5,269
do. (bunkers) ..	—	—	—	—	96	237
do. do. (b) ..	—	1,222	71	300	992	421
Aviation turbine fuel ..	—	—	—	—	3,066	2,943
do. (bunkers) ..	—	—	—	—	365	713
do. do. (a) ..	—	18,095	24,173	493	1,743	291
Kerosine ..	—	—	—	—	745	7,707
do. (bunkers) ..	—	—	—	169	29	65
Gas oil ..	—	—	—	—	22,709	9,702
do. (bunkers) ..	—	—	—	—	2,275	3,009
do. do. (a) ..	3,689	(f)	(f)	(f)	(f)	(f)
Diesel oil ..	—	—	—	—	4,601	9,375
do. (bunkers) ..	—	—	—	—	374	201
do. do. (a) ..	3,220	294	132	1,550	77	—
Fuel oil ..	—	—	—	11	74,267	59,239
do. (bunkers) ..	—	—	—	625	5,695	8,139
do. do. (a) ..	2,784	(g) 9,503	(g) 13,865	(g) 16,065	(g) 6,720	(g) 3,328
Asphalt and bitumen ..	—	—	—	10	8,435	3,942
Sierra Leone (bunkers)						
<i>(a)—</i>						
Aviation spirit ..	472	411	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Aviation turbine fuel ..	534	2,036	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Fuel and diesel oils ..	274,974	228,619	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Tanzania—						
Motor spirit ..	—	—	—	—	3,649	91,237
Aviation spirit bunkers ..	—	—	—	—	—	—
(a) ..	3,310	2,007	2,322	1,590	—	—
Aviation turbine fuel ..	(a) 2,954	(a) 6,615	(a) 5,911	—	(a) 9,529	12,907
do. (bunkers) ..	—	—	—	—	<i>n.a.</i>	10,082
Kerosine ..	—	—	—	—	620	9,097
Gas, diesel and fuel oils ..	(a) 835	(a) 3,873	(a) 512	(a) 2,224	(e) 41,624	(e) 210,103
do. (bunkers) ..	—	—	—	—	3,443	6,559
Uganda (bunkers) (a)—						
Aviation spirit ..	3,534	2,676	2,466	1,123	1,237	480
Aviation turbine fuel ..	8,431	8,211	11,300	—	—	—
Canada—						
Crude petroleum ..	12,210,695	12,116,775	13,501,180	14,401,380	17,670,192	20,045,942
Motor spirit ..	110,676	55,178	119,423	29,217	49,553	48,894
Fuel oil ..	285,768	310,417	337,289	297,737	345,683	495,403
do. (bunkers) ..	1,489,833	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Diesel oil (bunkers) ..	454,043	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Lubricating oil (c) ..	4,635	9,138	4,546	4,801	5,877	6,331
Petroleum coke (d) ..	28,445	16,086	18,951	15,269	8,632	16,644
Natural gas (million cu. ft.)	319,566	340,953	404,143	403,908	426,223	505,165
Barbados (bunkers)—						
Aviation spirit (a) ..	1,119	1,376	1,443	2,005	1,320	3,271
Aviation turbine fuel (a) ..	5,333	8,077	7,635	9,566	22,062	14,281
Gas, diesel and fuel oils ..	366	427	118	559	7,638	4,157
Do. do. (a) ..	64,057	258,000	98,881	131,201	278,732	156,185

(a) Foreign produce. See imports.

(b) Including bunkers for military forces.

(c) Including grease.

(d) Including pitch coke.

(e) Including foreign produce.

(f) Included with fuel oil.

(g) Gas and fuel oils.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
<i>(cont.)</i>						
Bermuda (bunkers) (a)(g)—						
Aviation spirit	66,028	44,106	28,443	24,868	7,191	6,400
Motor spirit	3,872	3,676	2,426	2,350	2,924	3,167
Aviation turbine fuel ..	67,350	55,369	68,021	60,340	74,829	85,561
Kerosine	474	419	377	330	220	171
Fuel oil	} 34,237	39,278	33,541	25,980	31,718	21,419
Diesel oil						
Lubricating oil	36	48	36	29	16	9
Jamaica—						
Aviation spirit (bunkers) (a)	12,987	7,703	6,927	4,861	267	<i>n.a.</i>
Motor spirit	—	—	33,564	75,774	112,898	56,321
Kerosine	—	—	10,086	21,118	21,216	9,770
do. (bunkers)	—	—	(b) 42,176	(b) 65,956	53,515	<i>n.a.</i>
Gas oil	—	—	2,163	3,602	1	(e)
do. (bunkers)	(a) 4,736	(a) 8,269	(b) 7,473	(b) 7,520	1,718	<i>n.a.</i>
Diesel oil	—	—	65,544	87,588	83,167	(e)
do. (bunkers)	(a) 32,352	(a) 22,437	(b) 21,362	(b) 22,034	20,467	<i>n.a.</i>
Fuel oil	—	—	13,796	29,269	17,548	107,297
do. (bunkers)	(a) 88,780	(a) 2,309	(b) 107,095	(b) 146,260	128,985	<i>n.a.</i>
Lubricating oil	—	—	—	10,987	18,252	10,572
Trinidad and Tobago—						
Crude petroleum	870,541	932,488	1,337,201	1,329,220	930,596	803,169
Aviation spirit (d)	1,426,354	1,301,629	1,628,647	2,165,429	2,152,296	2,038,187
do. (bunkers)	4,838	9,288	37,296	27,541	32,620	28,323
Motor spirit	1,063,230	1,204,020	1,045,728	813,285	1,002,936	1,156,517
do. (bunkers)	39	2,987	28	11	437	941
Kerosine	217,706	92,986	155,196	112,076	18,962	7,168
do. (bunkers)	32,180	28,910	149	18	136	81
Gas oil	1,058,377	1,140,601	1,487,506	942,268	584,101	434,902
do. (bunkers)	117,260	57,456	37,615	37,644	45,971	54,773
Diesel oil	874,695	1,180,688	936,228	1,394,654	1,803,173	1,833,187
do. (bunkers)	356,270	186,619	187,445	152,723	131,697	165,959
Fuel oil	7,346,859	8,307,560	9,269,922	9,888,972	9,536,221	9,757,602
do. (bunkers)	1,762,723	1,376,901	1,627,337	1,329,922	1,152,768	1,049,038
Lubricating oil	24	64	51,128	95,742	154,277	141,246
Road oil	9,640	6,430	8,428	12,518	9,224	7,697
Asphalt—						
Dried	65,344	67,728	79,080	58,544	58,695	59,284
Asphalt cement	4,261	3,180	4,100	2,812	1,766	545
Bituminous asphalt	49,575	36,109	26,170	18,015	15,367	22,173
Falkland Islands						
(bunkers) (a)—						
Fuel oil	16,996	—	5,605	2,581	<i>n.a.</i>	<i>n.a.</i>
Guyana (a)—						
Aviation spirit (bunkers)	13,515	<i>n.a.</i>	926	149	4	—
Abu Dhabi (c)—						
Crude petroleum	—	70,415	5,919,230	8,928,097	12,135,404	12,157,754
Aden (f)—						
Aviation and motor						
spirits	812,251	793,513	946,288	1,046,853	1,053,213	730,217
Kerosine	559,129	601,913	684,838	620,220	656,209	557,036
Gas, diesel, fuel oils	1,931,273	2,451,748	2,475,113	2,522,760	2,245,863	3,058,156
Fuel oil (bunkers)	3,405,878	3,786,449	3,875,597	3,215,970	3,615,681	1,374,883

(a) Foreign produce. See imports.

(b) Including foreign produce.

(c) British Protected State.

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

(e) Included with fuel oil.

(f) Domestic and foreign produce.

(g) Including bunkers for military forces.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES (cont.)						
Bahrain Islands (e)—						
Aviation spirit	1,836,000	1,900,000	1,793,000	1,245,000	1,152,000	942,000
Motor spirit						
Aviation turbine fuel	526,000	474,000	596,000	848,000	1,049,000	1,399,000
Kerosine	716,000	640,000	557,000	502,000	431,000	406,000
Diesel oil	2,562,000	2,469,000	2,014,000	1,587,000	1,703,000	1,628,000
do. (bunkers)	76,000	(a)	(a)	(a)	(a)	(a)
Fuel oil	4,390,000	4,152,000	3,126,000	3,125,000	3,299,000	4,255,000
do. (bunkers)	751,000	876,000	1,014,000	961,000	1,027,000	1,300,000
Asphalt	84,000	29,000	30,000	8,000	2,000	1,000
Brunei—						
Crude petroleum (h)	3,757,077	3,424,099	3,463,277	3,868,849	4,544,422	4,973,838
Natural gas (million cubic feet)	2,653	2,204	n.a.	n.a.	n.a.	n.a.
Ceylon (bunkers) (b)—						
Aviation spirit	7,536	5,944	5,886	1,455	—	22,274
Gas oil	3,484	6,614	3,679	2,860	4,181	9,788
Diesel oil	49,305	24,035	29,045	24,408	27,266	31,580
Fuel oil	247,529	161,690	210,985	230,679	203,505	118,530
Cyprus (bunkers) (b)—						
Aviation spirit	1,143	1,506	1,737	2,189	1,478	1,357
India (g)—						
Motor spirit	239,647	366,115	369,862	n.a.	n.a.	n.a.
Other spirit						
Paraffin wax						
11,939	9,370	11,535	n.a.	n.a.	n.a.	
Malaysia (West)—						
Crude petroleum	n.a.	n.a.	n.a.	223,016	259,866	313,807
Aviation spirit	n.a.	n.a.	n.a.	609	117	2,725
do. do. (bunkers)	n.a.	n.a.	n.a.	10,198	16,158	12,113
Motor spirit	n.a.	n.a.	n.a.	96,621	104,741	92,219
Aviation turbine fuel	n.a.	n.a.	n.a.	17,701	22,675	40,622
Kerosine	n.a.	n.a.	n.a.	21,645	32,271	20,090
Gas oil	n.a.	n.a.	n.a.	54,722	36,031	72,299
Diesel oil	n.a.	n.a.	n.a.	75,524	71,789	62,336
Fuel oil	n.a.	n.a.	n.a.	242,780	309,915	246,188
Fuel and diesel oil (bunkers)	n.a.	n.a.	n.a.	35,619	44,578	57,149
Petroleum coke	n.a.	n.a.	n.a.	40,031	53,336	—
Asphalt and bitumen	n.a.	n.a.	n.a.	4,256	4,400	12,519
Qatar (e)—						
Crude petroleum	8,614,642	8,971,403	8,754,450	8,903,998	8,936,394	8,909,704
Sabah—						
(bunkers) (b)—						
Aviation spirit	921	6,238	11,027	4,526	458	6,548
Fuel oil	6,097	10,180	8,259	9,964	400	11,798
Sarawak—						
Crude petroleum (c)	1,871,940	1,516,472	1,736,481	1,898,056	2,374,797	2,716,036
Motor spirit (d)	287,222	258,618	376,058	256,287	373,402	93,927
Kerosine	—	13,852	137,516	135,875	141,097	208,621
Aviation turbine fuel	—	—	6,408	172,065	138,291	477,603
Gas oil	50,922	36,731	121,482	142,350	138,899	138,542
Diesel oil	1,090,062	1,095,426	358,459	91,491	9,615	13,087
Fuel oil	531,799	393,537	708,362	1,100,749	1,314,507	1,327,893
do. (bunkers) (f)	81,634	46,377	37,828	23,312	23,959	20,882

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

(e) British Protected State.

(b) Foreign produce. See imports.

(f) Including diesel oil bunkers.

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

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

(g) Years ended March 31 following that stated.

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

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES (cont.)						
Singapore—						
Crude petroleum ..	1,295,234	1,240,060	—	—	9,782	5
Aviation spirit ..	176,839	161,879	170,009	207,868	269,114	287,206
do. (bunkers) ..	46,384	47,752	54,190	73,009	66,712	65,273
Motor spirit ..	771,240	828,853	750,451	680,611	889,708	851,307
White spirit ..	78,137	72,666	44,016	22,046	29,050	103,762
Aviation turbine fuel ..	303,948	283,007	235,259	553,257	1,242,362	1,681,216
Kerosine ..	335,233	372,621	232,617	225,421	267,891	340,052
Gas oil ..	736,427	846,758	756,997	663,525	1,065,994	1,220,614
Diesel oil ..	338,608	376,104	300,227	401,057	461,577	492,696
Fuel oil ..	970,833	971,164	1,747,173	2,619,309	2,788,929	3,211,728
Fuel and diesel oil (bunkers) ..	2,614,181	2,606,992	2,470,657	2,854,708	3,022,486	3,519,190
Lubricating oil ..	11,532	31,224	58,355	74,011	95,104	98,170
Asphalt and bitumen ..	29,673	70,682	57,139	41,137	50,271	55,212
Australia (a)—						
Aviation spirit ..	8,031	1,983	1,344	736	5,626	3,360
do. do. (bunkers) ..	7,799	1,439	5,828	3,315	13,619	605
do. do. do. (d) ..	2,997	1,319	5,873	3,585	3,316	822
Motor spirit ..	138,370	126,490	141,515	52,813	46,336	128,540
Kerosine ..	13,965	20,810	3,650	8,773	11,413	12,539
Aviation turbine fuel ..	68,233	63,986	23,734	51,672	70,559	45,516
do. (bunkers) ..	6,680	5,125	32,881	72,183	112,942	24,787
do. do. (d) ..	1,965	792	2,400	11,802	13,887	82,799
Lubricating oil ..	4,467	14,813	50,610	52,227	62,046	90,669
Diesel and fuel oils ..	1,758,225	2,189,523	1,671,995	1,037,107	744,030	878,803
Fuel oil (bunkers)—						
Domestic produce ..	583,321	670,440	752,493	718,586	785,614	878,028
Foreign produce ..	8,410	5,448	8,845	4,614	2,506	3,230
Fiji (bunkers)(d)—						
Aviation spirit ..	5,381	2,353	2,085	1,669	1,574	3,079
Aviation turbine fuel ..	35,708	30,357	39,193	50,932	53,681	60,076
Diesel oil ..	12,429	13,415	9,574	9,378	11,755	12,856
Gas oil ..	2,129	1,521	1,460	3,008	2,797	2,387
Fuel oil ..	326	2,070	6,863	5,133	11,574	761
New Zealand—						
Diesel oil ..	—	—	—	(a) 4,129	(a) 1,340	(a) 309
do. (bunkers) ..	—	—	—	(a) 47,092	(a) 90,809	(a) 99,576
do. (bunkers) (d) ..	34,263	29,970	(a) 23,826	(a) 29,319	(a) 13,484	(a) 6,942
Fuel oil ..	—	—	(a) 28,986	(a) 222,144	(a) 288,731	(a) 137,245
do. (bunkers) ..	—	—	—	(a) 14,256	(a) 58,729	(a) 100,040
do. (bunkers) (d) ..	43,362	24,110	(a) 40,911	(a) 43,232	(a) 13,734	(a) 5,789
Lubricating oil (bunkers) (d) ..	1,632	1,660	(a) 1,848	(a) 1,921	(a) 1,934	(a) 2,295
Irish Republic—						
Aviation spirit (d) (b) ..	2,900	3,248	3,801	3,859	3,837	1,964
do. (d) (c) ..	34,574	20,045	15,857	14,478	11,065	10,795
Motor spirit ..	7,100	6,709	6,527	9,862	8,180	41,937
Aviation turbine fuel (b) ..	—	—	—	—	—	2,985
do. (c) ..	—	3,545	—	—	—	4
do. (d) (b) ..	12,137	14,073	15,399	6,111	38,691	47,197
do. (d) (c) ..	72,866	73,274	91,631	97,077	98,562	119,699

(a) Years ended June 30 of that stated.

(b) Bunkers for foreign ships or aircraft only.

(c) Exports to Shannon Free Airport.

(d) Foreign produce. See imports.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
Irish Republic—(cont.)						
Gas and diesel oils ..	133,990	142,944	144,111	211,183	86,391	314,900
do. (bunkers) (b)(a) ..	—	—	—	5,864	8,909	11,492
do. do. (a) ..	7,405	9,359	11,036	10,542	5,964	8,252
Fuel oil ..	111,485	38,264	21,204	62,378	12,221	197,199
do. (bunkers) (b) (a) ..	5,255	—	—	—	—	—
do. do. (a) ..	70,130	81,632	93,248	101,646	91,970	125,096
OTHER COUNTRIES						
Albania—						
Crude petroleum ..	268,300	305,400	289,700	280,000	<i>n.a.</i>	<i>n.a.</i>
Natural asphalt ..	11,200	11,200	10,000	11,000	<i>n.a.</i>	<i>n.a.</i>
Other asphalt ..	134,600	193,000	238,400	264,000	<i>n.a.</i>	<i>n.a.</i>
Austria—						
Crude petroleum ..	1	—	1	1	1	1
Motor spirit ..	37	52	59	21	184	294
Gas oil ..	191,625	202,674	128,922	123,974	24,562	7,981
Fuel oil ..	10	—	2	6	16	23
Lubricating oil, etc. ..	10,780	14,936	75,865	71,964	54,449	77,717
Belgium-Luxemburg						
E.U.—						
Crude petroleum ..	1,670	—	28	—	157,143	271,482
Motor spirit ..	426,213	832,347	613,902	848,683	878,642	1,010,007
Kerosine ..	177,712	206,528	396,171	434,780	461,470	500,891
Gas oil ..	794,451	1,207,982	1,303,896	1,295,950	1,082,749	3,644,964
do. (bunkers) (a) ..	83,470	85,465	109,033	208,020	260,239	230,490
Fuel oil, etc. ..	600,031	1,002,879	730,742	521,286	847,546	859,378
do. (bunkers) (a) ..	980,462	1,219,691	1,412,951	1,592,888	1,529,519	1,556,793
Lubricating oil ..	111,023	123,106	129,520	154,133	154,196	162,374
do. (bunkers) (a) ..	8,665	5,234	9,872	7,006	6,877	6,642
Other heavy oils ..	2,994	4	29,885	2,576	1,888	—
Petroleum jelly ..	1,665	1,311	804	354	234	140
Paraffin wax ..	65	80	93	67	161	232
Ozokerite and ceresin (c) ..	45	68	28	44	40	20
Petroleum coke ..	5,943	27,549	40,410	25,228	26,836	31,447
Natural asphalt ..	47	193	255	254	368	193
Pitch ..	223,005	287,945	234,859	194,920	220,997	226,184
Bulgaria—						
Crude petroleum ..	114,190	78,400	40,177	3,871	24,310	<i>n.a.</i>
Denmark—						
Aviation spirit ..	2,845	5,561	3,070	5,925	1,498	1,628
Motor spirit ..	138,147	80,335	171,466	259,965	319,570	287,386
White spirit ..	1,090	925	482	28	6	957
Kerosine ..	6,820	17,576	6,835	4,559	24,166	12,740
Gas oil ..	74,123	33,726	44,591	63,269	(b) 322,552	364,063
Diesel oil ..	11,463	8,313	65,087	146,981	(b) —	1,693
Fuel oil ..	294,856	215,527	308,744	193,071	(b) 32,761	110,925
Gas oil (bunkers) ..						
Diesel oil (bunkers) ..	273,571	314,810	352,949	376,058	446,632	477,208
Fuel oil (bunkers) ..						
Lubricating oil ..	2,362	4,331	7,998	10,690	16,743	15,653
Grease ..	1,531	1,401	933	910	1,308	799

(a) Bunkers for foreign ships or aircraft only.

(b) Foreign Produce. See imports.

(c) Including montan wax.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
France—						
Aviation spirit	13,998	16,894	11,788	(b) 2	(b) 7,371	(b) 399
Motor spirit	1,398,105	1,356,938	1,752,649	(b) 1,575,749	(b) 1,608,622	(b) 1,595,203
White spirit	8,090	13,922	23,262	(b) 21,386	(b) 22,320	(b) 27,207
Kerosine	589,058	444,225	220,200	(b) 202,247	(b) 49,123	(b) 26,801
Gas oil	2,366,527	2,268,847	2,514,422	(b) 3,373,771	(b) 4,203,045	(b) 2,820,975
do. (bunkers)— Domestic produce						
Fuel oil	2,203,474	2,585,524	3,025,240	(b) 3,129,967	(b) 4,935,240	(b) 5,020,027
do. (bunkers)— Domestic produce						
Lubricating oil	183,578	216,536	252,438	(b) 232,993	(b) 264,147	(b) 296,347
do. (bunkers)— Domestic produce						
Petroleum jelly	230	1,735	1,876	(b) 1,996	(b) 1,098	(b) 1,412
Paraffin wax	9,647	8,168	10,391	(b) 7,975	(b) 11,256	(b) 16,746
Ozokerite, ceresin, etc.	763	592	639	(b) 28	(b) 35	(b) 30
Petroleum coke	1	2,963	n.a.	(b) 34	(b) 11	(b) 1
Natural asphalt and bitumen	21,063	20,183	20,106	(b) 18,926	(b) 23,603	(b) 17,014
Mastic asphalt	3,421	2,956	3,160	(b) 1,949	(b) 2,475	(b) 2,585
Bitumen	126,846	130,436	235,651	(b) 267,377	(b) 366,088	(b) 401,194
Germany (Federal)—						
Crude Petroleum	4	39	27	21,499	138,621	80,397
Aviation spirit (bunkers) (a)	52,870	53,324	57,340	65,410	50,331	24,558
Motor spirit (e)	1,151,549	1,216,740	1,105,860	1,062,878	1,156,711	1,090,323
White spirit	5,779	8,624	10,272	9,057	6,232	8,094
Kerosine	4,921	30,352	16,477	4,515	11,936	24,248
Aviation turbine fuel do. (bunkers) (a)	205,686	19,414	104,652	11,543	23,392	16,359
Gas and diesel oil	187,890	227,130	290,209	335,965	453,519	563,584
do. (bunkers) (a)	770,568	1,128,708	964,552	342,260	321,815	377,864
Fuel oil	147,656	203,152	254,410	220,702	256,558	248,255
do. (bunkers) (a)	1,261,259	1,892,879	2,735,669	2,732,093	2,737,497	3,531,802
Lubricating oil	737,826	835,672	1,222,496	1,286,208	1,332,908	1,108,016
do. (bunkers) (a)	73,770	87,891	97,296	98,917	153,096	191,272
Petroleum jelly	9,726	9,970	9,901	—	—	—
Paraffin wax	7,189	9,031	10,648	13,340	13,521	14,141
Ozokerite, etc.	29,846	31,840	34,925	417,829	47,588	48,952
Natural asphalt and bitumen	26	38	36	n.a.	n.a.	n.a.
Bitumen	567	504	2,055	1,627	847	1,329
Petroleum coke	105,925	131,010	177,352	222,349	220,830	251,592
Germany (East)—	101,333	141,538	148,452	161,075	150,956	148,502
Motor spirit	381,854	412,176	418,138	465,532	114,188	492,215
Diesel oil	364,062	426,783	435,901	665,578	505,527	420,636
Greece—						
Diesel and fuel oils	26,555	19,346	20,326	2,869	46,596	121,279
Hungary—						
Motor spirit	115,664	81,177	121,638	148,000	160,000	209,636
Kerosine	140	236	208	n.a.	n.a.	n.a.
Gas oil	193,045	159,466	164,198	153,000	157,000	213,573
Fuel oil	259,240	227,028	258,571	175,000	311,000	444,861
Lubricating oil	13,401	13,319	13,546	13,523	13,492	13,925
Paraffin wax and ceresin	1,991	1,198	512	n.a.	n.a.	n.a.
Bitumen	169,773	194,237	165,822	167,000	198,000	178,141

(a) Bunkers for foreign ships or aircraft only.

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

(c) Including aviation spirit.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Italy—						
Crude petroleum ..	328,937	176,478	331	81	59	36
Aviation and motor spirits ..	1,845,429	1,785,448	1,852,096	2,572,511	3,482,393	4,209,041
do. (bunkers) (a) ..	209,453	321,208	305,687	63,519	103,000	37,187
White spirit ..	14,530	15,656	13,295	(d)	(d)	(b)
Kerosine ..	634,485	779,177	792,613	1,249,745	1,322,649	1,603,324
Lubricating oil ..	48,880	54,090	80,165	142,055	235,469	220,334
Gas oil ..	3,342,617	4,073,429	7,677,762	14,789,304	15,639,935	15,516,411
do. (bunkers) (a) ..	298,857	232,473	3,897,546	1,836,740	4,789,793	3,812,235
Fuel oil ..	2,477,806	2,576,418	(f)	(f)	(f)	(f)
do. (bunkers) (a) ..	2,408,929	2,553,257	(g)	(g)	(g)	(g)
Paraffin wax ..	1,017	1,346	1,246	749	1,954	1,728
Natural asphalt and bitumen ..	8,346	9,007	6,859	6,858	6,221	7,305
Pitch ..	121,139	140,220	132,350	113,820	122,864	186,686
Netherlands—						
Aviation spirit (bunkers) (a) ..	1,807	3,542	3,443	9,743	8,835	21,101
Motor spirit ..	2,818,378	2,780,236	2,940,537	3,132,500	3,766,313	3,436,552
Kerosine ..	631,326	558,292	647,964	735,480	735,739	615,041
Gas oil ..	2,659,159	2,264,160	2,085,516	2,893,940	3,615,192	3,804,952
do. (bunkers) (a) ..	415,683	330,132	352,607	502,628	502,666	599,617
Fuel oil ..	4,800,485	3,451,824	3,511,260	3,558,226	3,943,932	4,786,932
do. (bunkers) (a) ..	1,688,191	2,042,368	2,778,157	2,753,230	2,921,736	3,806,257
Lubricating oil ..	263,329	239,328	309,681	301,269	291,350	384,215
Petroleum jelly ..	6,104	6,315	7,620	8,379	7,368	7,350
Paraffin wax ..	9,128	10,854	13,890	13,429	12,529	21,438
Ozokerite and ceresin(e) ..	195	304	221	58	126	124
Pitch ..	230,106	364,785	377,831	341,067	356,127	251,573
Natural asphalt ..	—	43	—	51	81	77
Petroleum coke ..	54,335	54,713	56,681	57,443	51,402	7,659
Norway—						
Motor spirit ..	146,112	123,873	227,004	143,655	151,167	190,017
Kerosine ..	12,559	7,977	2,651	22	7	—
Fuel oil and solar oil ..	1,017,629	1,077,229	1,183,648	1,063,147	923,849	960,263
Lubricating oil ..	17,944	18,631	20,581	45,762	22,544	20,364
Poland—						
Kerosine ..	n.a.	14,271	576,700	1,010,874	510,489	662,081
Fuel oils ..	n.a.	545,841				
Lubricating oil ..	n.a.	3,530				
Paraffin wax ..	n.a.	2,974				
Asphalt ..	n.a.	9,928				
Portugal (b)—						
Motor spirit ..	46,733	47,141	57,204	42,885	47,883	26,342
Kerosine ..	28,242	44,589	18,742	13	132,338	168
Fuel oil ..	73,056	113,912	151,212	126,282	48,501	36,263
do. (bunkers) (a) ..	1,818	3,428	26,734	57,569	44,298	22,323
Lubricating oil, etc. ..	1,591	2,363	2,693	4,115	5,131	6,740
Bitumen ..	5	20	204	7	30	145
Natural asphalt ..	55	274	487	332	48	301
Roumania—						
Motor spirit(c) ..	1,841,600	1,764,500	1,629,200	1,421,300	1,162,700	n.a.
Kerosine ..	592,000	412,600	332,400	275,700	272,500	n.a.
Gas oil ..	1,621,800	1,583,400	1,869,800	1,947,800	1,918,900	n.a.
Fuel oil ..	1,444,600	1,618,500	1,864,500	1,612,700	1,928,700	n.a.
Lubricating oil ..	201,700	270,500	298,300	289,200	269,800	n.a.
Paraffin wax ..	23,100	24,700	20,600	19,500	20,000	n.a.
Petroleum coke ..	27,900	54,300	55,400	50,700	36,300	n.a.
Bitumen ..	97,700	99,300	103,200	104,500	68,600	n.a.

(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) Included with aviation and motor spirits.

(e) Including montan wax.

(f) Included with gas oil.

(g) Included with gas oil (bunkers).

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Spain—						
Motor spirit	53,887	61,555	117	100	13	351,033
Diesel oil	—	19,522	2,023	89,463	163,077	433,087
Fuel oil	20,679	—	—	39	233,683	979,296
Sweden—						
Motor spirit, etc. ..	12,740	87,017	172,440	127,591	143,763	287,728
White spirit	—	—	505	5	—	10
Kerosine	1,194	9,372	7,664	7,967	13,746	72,447
Fuel oil and gas oil ..	66,727	117,593	147,738	151,029	194,068	471,724
Lubricating oil and grease	40,013	41,330	47,649	46,809	47,283	48,567
Paraffin wax	14	11	3	39	16	93
Asphalt	23	42	26	38	—	9
Pitch	36,742	30,599	40,482	46,141	40,666	51,637
Switzerland—						
Motor spirit	3	567	11,521	21,606	15,637	10,589
Fuel oil	35	953	62,230	104,587	116,516	161,089
Lubricating oil and grease	1,222	419	1,379	843	1,157	2,612
Petroleum coke	8,733	15,570	17,568	9,430	7,081	10,746
Asphalt and bitumen ..	2,002	1,810	3,533	2,634	2,973	2,395
U.S.S.R.—						
Crude petroleum ..	25,864,400	29,765,300	36,111,200	42,746,000	49,519,700	45,555,652
Motor spirit	3,104,800	3,289,400	2,703,800	2,315,600	2,660,000	3,224,654
Kerosine	1,274,400	1,248,700	875,500	1,146,700	1,232,800	1,162,052
Diesel oil	6,286,500	7,370,100	6,743,200	7,244,500	8,157,600	8,479,528
Fuel oil	7,614,400	8,440,900	8,913,300	9,556,200	10,469,200	10,989,845
Lubricating oil and grease	431,700	381,200	290,000	271,400	265,600	262,585
Paraffin wax	30,000	28,700	32,900	27,500	29,300	24,113
Bitumen	21,700	18,300	23,100	22,900	29,700	32,184
Yugoslavia—						
Crude petroleum ..	551,867	447,903	310,843	142,442	318,900	316,720
Aviation spirit	<i>n.a.</i>	654	17	1,261	1,001	871
Motor spirit	25,239	9,771	21,026	22,120	161,626	88,814
White spirit	189	247	379	143	293	17
Aviation turbine fuel ..	<i>n.a.</i>	1,536	—	—	12,804	13,515
Gas oil	151,928	3,904	1,735	19,695	184,822	265,030
Fuel oil	75,724	65,276	73,660	132,492	409,443	273,266
Lubricating oil	24,931	46,016	44,757	51,895	42,863	54,298
Mastic asphalt	12	—	—	—	—	—
Algeria—						
Crude petroleum ..	—	23,309,700	<i>n.a.</i>	27,027,830	34,057,108	<i>n.a.</i>
Angola—						
Crude petroleum ..	113,135	312,697	355,348	122,378	1	3
Fuel oil	85,451	168,262	196,979	203,199	186,500	46,932
Canary Islands—						
Motor spirit (a)	318,511	189,775	246,218	292,170	172,197	124,140
Kerosine (a)	61,422	68,377	122,899	108,042	167,149	131,269
Diesel (a) (b)	147,944	166,484	154,187	196,898	134,972	134,375
do. (bunkers) (b) ..	121,209	119,693	92,134	8,463	57,776	70,945
Fuel oil (a) (b) ..	255,730	375,377	592,709	699,500	396,689	92,563
do. (bunkers) (b) ..	345,175	342,856	319,201	33,577	297,156	480,190
Paraffin wax (a)	—	—	—	339	9	454
Asphalt (a)	52,144	46,962	37,304	33,735	76,529	57,768
Ceuta (c)—						
Diesel oil	441	28	—	—	—	—
do. (bunkers)	489,887	95,360	21,118	24,285	28,597	36,686
Fuel oil (bunkers) ..	414,437	396,006	122,857	157,590	175,780	149,872
Congo (Republic of)—						
Crude petroleum ..	132,875	99,464	77,951	69,880	64,153	37,793

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

(b) Including foreign produce.

(c) Foreign produce. See imports.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Egypt—						
Crude petroleum ..	2,802,844	3,386,654	2,982,145	1,592,062	1,509,830	<i>n.a.</i>
Motor spirit	266,709	145,663	470,451	431,176	588,759	<i>n.a.</i>
Kerosine	4,288	3,937	12,795	15,340	44,462	<i>n.a.</i>
Gas and diesel oils	12,184	829,686	1,127,705	1,733,455	1,077,438	<i>n.a.</i>
Fuel oil	171,508					
do. (bunkers) (d) ..	84,146					
Gabon—						
Crude petroleum ..	804,758	928,871	1,051,237	1,260,982	1,364,557	3,136,002
Libya—						
Crude petroleum ..	7,727,929	23,859,392	44,901,448	63,304,220	71,084,574	81,446,489
Morocco—						
Gas oil	7,129	3,089	<i>n.a.</i>	39,728	325	7,610
South Africa—						
Motor spirit	4	137	4,030	2,784	46,439	57,222
do. (bunkers) (c) ..	13,121	5,823	1,272			
Kerosine	98	9,100	22,796	23,415	48,727	32,976
Gas oil (bunkers) (c) ..	16,723	14,069	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Diesel oil	153	25,410	64,688	100,391	201,578	304,925
do. (bunkers)	4,324	17,410	52,816			
do. (bunkers) (c) ..	26,313	23,559	8,191	984,725	1,207,046	1,500,291
Fuel oil	241	36,074	587,379			
do. (bunkers)	267,448	360,575	732,558	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
do. (bunkers) (c) ..	152,062	127,583	18,946			
Asphalt and bitumen ..	43,263	26,614	6,095			
Tunisia (bunkers)—						
Aviation spirit	—	—	5,698	—	—	—
Fuel oil	25	—	254	3,976	1,821	851
Lubricating oil and grease	116	123	143	193	194	176
Mexico—						
Crude petroleum ..	1,038,797	989,559	1,113,693	1,037,149	1,453,597	1,413,367
Motor spirit	3,115	20,141	4,739	873	9,601	36,472
Fuel oil	1,607,093	1,578,429	1,378,775	1,482,139	1,022,564	1,121,445
do. (bunkers)	46,189	55,118	24,679	22,912	34,630	4,386
Gas oil	5,778	37,166	302	22	225	2,993
Paraffin wax	1,581	1,664	1,794	2,783	949	1,224
Natural gas (million cu. ft.) (a)	49,888	47,621	59,510	54,327	16,096	54,365
Netherlands Antilles—						
Crude petroleum ..	374,000	289,000	478,000	369,000	339,000	348,000
Aviation spirit	1,601,000	1,563,000	1,558,000	1,504,000	1,138,000	1,062,000
Motor spirit	2,424,000	2,508,000	2,825,000	3,031,000	3,109,000	3,248,000
White spirit	61,000	56,000	74,000	72,000	50,000	61,000
Kerosine	830,000	859,000	724,000	642,000	444,000	530,000
Aviation turbine fuel	2,264,000	<i>n.a.</i>	2,882,000	3,008,000	3,641,000	4,168,000
Gas oil	4,378,000	4,705,000	3,488,000	2,836,000	3,701,000	2,790,000
Diesel oil	1,302,000	1,465,000	1,678,000	1,245,000	1,396,000	1,466,000
Fuel oil	21,802,000	21,357,000	21,858,000	21,860,000	19,453,000	20,570,000
Lubricating oil	814,000	599,000	809,000	939,000	654,000	420,000
Asphalt	835,000	808,000	898,000	865,000	934,000	999,000
United States—						
Crude petroleum ..	239,015	242,465	181,480	224,071	521,432	3,829,808
Natural gasoline	995	2,224	1,661	(b)	(b)	(b)
Aviation spirit	161,654	139,047	97,177	96,747	139,134	210,779
Motor spirit	62,343	91,183	51,278	65,843	61,923	152,110
Other finished light products	146,658	<i>n.a.</i>	<i>n.a.</i>	261,456	66,325	42,199
Kerosine	39,680	65,321	20,319	21,163	31,636	20,034
Aviation turbine fuel ..	10,585	21,173	21,597	19,625	15,028	36,331

(a) Imports into the United States.

(b) Included with motor spirit.

(c) Foreign produce. See imports.

(d) Bunkers of foreign produce.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Gas oil and distillate						
fuel oil	1,248,478	2,353,099	910,949	592,233	522,030	587,017
Residual fuel oil	1,874,269	2,228,511	2,790,584	2,187,049	1,931,417	3,225,123
Fuel oil (bunkers)	9,837,000	9,168,000	9,205,000	8,520,000	<i>n.a.</i>	<i>n.a.</i>
Lubricating oil	2,326,245	2,444,273	2,410,537	1,986,713	2,067,445	2,400,000
Transformer oil	43,188	51,194	57,372	50,882	51,819	42,293
Greases	52,678	50,244	52,362	50,686	49,911	46,779
Paraffin wax	144,801	148,049	179,597	174,514	198,689	175,007
Petroleum jelly	31,884	32,100	31,624	29,378	26,544	24,328
Natural asphalt and bitumen	40,790	36,478	34,161	37,826	36,252	34,125
Other asphalt, etc.	116,384	106,467	99,635	55,292	60,615	44,616
Petroleum coke	1,331,473	1,921,902	2,431,794	2,114,689	2,588,429	2,925,923
Liquefied petroleum gases	326,923	387,870	452,705	633,744	689,406	554,090
Natural gas (million cu. ft.)	14,835	15,964	17,275	23,891	51,754	91,145
Argentina—						
Crude petroleum	250,388	100,260	15,960	—	3,039	9,093
Kerosine	24,758	7,482	—	1,033	191	38
Gas oil	<i>n.a.</i>	33,458	—	5	154,547	46
Fuel oil	488,024	610,169	469,865	878,065	985,792	669,911
Paraffin wax	430	790	974	758	1,354	1,593
Asphalt	1,092	3,271	2,068	1,351	5,723	6,495
Grahamite ("Rafaelite")	713	828	1,052	443	150	314
Bolivia—						
Crude petroleum	67,131	96,868	39,995	36,104	66,824	300,000
Motor spirit	976	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	5	<i>n.a.</i>
Kerosine	81	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	6	<i>n.a.</i>
Brazil—						
Crude petroleum	292,855	354,445	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Fuel oil	75,926	31,732	728	<i>n.a.</i>	<i>n.a.</i>	85,145
Colombia—						
Crude petroleum	3,348,082	4,295,293	4,181,307	5,521,144	4,816,877	4,243,239
Gas and diesel oil	2,181	17,071	—	—	—	—
Fuel oil	597,856	344,781	686,455	701,951	904,405	1,166,024
Ecuador—						
Crude petroleum	145,892	160,972	76,000	76,147	<i>n.a.</i>	<i>n.a.</i>
Peru—						
Crude petroleum	362,406	370,882	393,550	338,623	274,495	333,630
Natural gasoline	3,168	—	—	6	—	378
Aviation spirit	1,654	—	225	—	—	7
Motor spirit	357	39	1	—	362	—
Kerosine	671	322	40	61	36	88
Gas oil (a)	112,643	24,096	6,508	6,000	8,685	32,569
Fuel oil and diesel oil	105,617	75,851	62,964	75,743	41,573	66,322
do. (bunkers)	25,074	27,228	26,371	40,577	38,770	31,648
Lubricating oil and grease	1,211	2,585	1,365	3,686	1,988	748
Asphalt	—	—	2	—	—	—
Venezuela—						
Crude petroleum	113,757,962	113,892,005	120,452,116	119,472,921	116,117,048	124,245,602
Motor spirit	2,349,614	2,677,331	2,187,050	2,984,333	2,326,263	2,055,951
Kerosine	1,160,292	1,208,577	1,524,263	1,924,508	2,090,325	2,736,613
Aviation turbine fuel	552,917	218,864	305,882	270,875	177,971	352,639
Gas oil	3,739,665	4,794,759	4,013,734	3,252,247	41,877,901	42,284,214
Diesel oil	2,759,686	2,898,506	2,467,774	2,308,104		
Fuel oil	29,619,033	30,836,490	34,196,501	36,775,054		
Lubricating oil	242,623	259,662	233,360	274,689	255,380	287,061
Paraffin wax	—	—	—	1,707	—	26
Asphalt	539,476	500,893	478,564	517,804	495,596	552,653

(a) Including bunkers.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Burma—						
Paraffin wax	9,649	10,661	6,555	4,608	<i>n.a.</i>	<i>n.a.</i>
Formosa—						
Motor spirit, etc.	35,818	—	1,267	4,104	4,242	<i>n.a.</i>
Fuel oil	32,788	50,304	80,384	36,524	<i>n.a.</i>	<i>n.a.</i>
Lubricating oil	<i>n.a.</i>	12	30	480	<i>n.a.</i>	<i>n.a.</i>
Asphalt	36,745	27,639	12,776	12,221	17,957	<i>n.a.</i>
Indonesia—						
Crude petroleum	5,445,685	9,398,856	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Motor spirit	1,147,770	938,825	<i>n.a.</i>	<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>	<i>n.a.</i>
Kerosine	484,418	387,423	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Gas and diesel oils	977,295	4,193,290	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
do. do. (bunker oil)	82,538		<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Fuel oil	3,323,435		<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
do. (bunker oil)	337,908					
Lubricating oil	26,194					
Paraffin wax	61,766	44,063	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Iran (c)—						
Crude petroleum	44,521,989	51,383,320	57,128,588	74,122,716	74,774,554	119,379,493
Motor spirit	2,441,973	2,539,360	2,805,275	3,002,058	3,705,045	2,982,303
Kerosine	796,876	654,616	826,136	565,977	497,150	466,756
Gas oil	1,421,767	1,115,294	1,183,547	1,120,734	1,217,418	799,408
Diesel oil	557,483	473,513	386,888	289,941	319,437	365,184
Fuel oil	6,708,862	7,091,693	7,990,372	7,802,112	7,776,523	9,308,964
Pitch	97,646	75,884	88,182	37,439	72,295	91,132
Iraq—						
Crude petroleum	45,937,931	53,237,116	58,246,932	60,674,147	62,014,787	56,120,790
Motor spirit	<i>n.a.</i>	1,426	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Kerosine	<i>n.a.</i>	4	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Motor spirit	319,111	238,943	260,413	393,580	369,613	323,065
Kerosine	68,400	84,275	175,850	178,905	294,266	302,666
Gas oil	75,022	75,125	163,658	178,561	194,680	174,259
Lubricating oils	10,675	401,245	90,317	76,361	220,880	82,700
Paraffin wax	8,355	8,270	11,696	12,737	18,219	14,405
Asphalt and pitch	81,758	173,592	94,569	91,804	61,086	97,796
Jordan—						
Motor spirit	691	484	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Kerosine	<i>n.a.</i>	56	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Asphalt and bitumen	<i>n.a.</i>	9,094	6,350	15,037	20,224	7,985
Kuwait—						
Crude petroleum	81,298,330	85,323,283	94,443,539	96,261,808	101,684,739	102,313,966
Light distillate	565,000	610,000	1,017,000	6,669,724	6,551,509	6,738,000
Gas oil	1,795,000	2,144,000	2,446,000			
Diesel oil	91,000	26,000	34,000			
do. (bunkers)	(b)	(b)	(b)	3,673,359	3,664,397	<i>n.a.</i>
Fuel oil	2,035,000	2,064,000	2,291,000			
do. (bunkers)	3,612,000	3,833,000	3,991,854			
Neutral Zone (a)—						
Crude petroleum	9,394,000	13,273,000	15,527,000	15,575,000	18,644,000	<i>n.a.</i>
Fuel oil	2,478,000	2,288,000	2,622,000	1,458,000	646,000	<i>n.a.</i>
Saudi Arabia—						
Crude petroleum	62,089,088	66,472,079	70,832,950	84,213,009	102,459,954	70,111,491
Aviation spirit	25,200	12,700	16,000	10,000	<i>n.a.</i>	<i>n.a.</i>
Motor spirit	749,800	967,000	1,234,200	1,771,000	<i>n.a.</i>	<i>n.a.</i>
Kerosine	414,000	384,500	280,100	136,000	<i>n.a.</i>	<i>n.a.</i>
Aviation turbine fuel	562,200	566,400	752,600	1,040,000	<i>n.a.</i>	<i>n.a.</i>
Diesel oil	1,450,400	1,871,000	1,557,200	1,527,000	<i>n.a.</i>	<i>n.a.</i>
Fuel oil	5,339,500	5,759,700	5,922,700	6,438,000	<i>n.a.</i>	<i>n.a.</i>
Syria—						
Natural asphalt	<i>n.a.</i>	<i>n.a.</i>	100	551	296	285
Turkey—						
Motor spirit	<i>n.a.</i>	41,194	46,261	17,615	28,297	5,925
Fuel oil	489,611	663,747	679,382	490,006	381,768	33,009

(a) Neutral Zone of Kuwait and Saudi Arabia.

(c) Years ended March 20 following that stated.

(b) Included with fuel oil.

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

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Crude petroleum (g) ..	52,240,771	54,173,381	59,339,000	65,653,203	70,152,881	72,667,395
Aviation spirit (a) ..	185,832	170,971	145,257	131,192	132,604	153,849
Aviation turbine fuel ..	103,576	51,227	39,081	32,171	12,199	76,728
Motor spirit (f) ..	2,385,290	2,888,706	3,151,744	3,163,714	3,462,064	4,427,020
Other spirit ..	707,927	986,046	1,762,400	2,091,415	2,922,502	4,104,008
Kerosine ..	708,049	791,324	572,547	633,259	666,755	624,426
Aviation jet fuel ..	183,534	216,085	242,715	358,350	355,182	541,277
Fuel oil (a) ..	7,317,177	8,474,633	8,852,982	10,258,862	9,958,374	9,216,054
Diesel oil ..	170,544	154,312	226,710	219,980	337,479	224,991
Gas oil ..	2,164,449	2,766,285	2,711,069	2,246,371	2,735,003	3,332,459
Lubricating oil ..	503,072	528,036	532,319	560,608	603,118	639,136
Greases ..	2,805	2,589	752	450	487	347
Other oils ..	205,625	26,837	2,532	1,752	2,204	2,629
Mineral jelly ..	4,583	3,691	3,920	3,097	3,116	2,851
Paraffin wax ..	23,967	22,730	10,719	11,969	35,611	14,629
Other petroleum wax ..	836,787	764,142	159,074	105,696	75,299	180,433
Petroleum coke ..	58,869	68,012	94,884	92,685	93,197	83,229
Asphalt and bitumen (d)	86,040	82,122	98,060	81,151	76,888	66,827
Natural gas (Million cu. ft.) ..	—	—	3,200	22,700	22,200	26,800
Channel Islands—						
Aviation spirit ..	3,975	3,427	3,514	2,734	2,021	1,314
Motor spirit ..	26,369	27,631	19,432	31,387	23,116	35,043
Other spirit (b) ..	309	299	51	128	132	145
Kerosine ..	12,796	14,037	14,425	18,513	22,137	25,850
Gas and fuel oil ..	126,333	167,218	174,609	201,906	75,074	239,961
Lubricating oil ..	1,679	1,645	1,831	1,745	2,470	1,685
Greases (b) ..	27	48	164	23	30	47
Gibraltar (e) (h)—						
Aviation spirit ..	4,808	4,000	5,000	9,033	10,118	10,070
Motor spirit ..	10,400	8,400	10,000	3,375	3,354	2,913
Diesel oil ..	11,470	192,000	179,000	11,181	20,399	13,991
Fuel oil ..	3,288		179,000	3,460	5,516	4,922
Lubricating oil ..	1,161	2,250				1,709	1,595	2,561
Kerosine ..	50	65	90	31	33	22
Malta—						
Aviation spirit (a) ..	9,998	14,428	12,044	9,080	2,131	5,400
Motor spirit ..	16,167	21,445	19,238	23,979	20,264	29,701
Aviation turbine fuel (a)	30,595	47,607	38,831	40,505	44,818	24,038
Kerosine ..	25,137	24,112	30,026	19,953	28,367	22,455
Fuel oil (a) ..	55,251	58,597	91,040	89,835	75,724	130,715
Gas oil (a) ..	17,863	18,301	22,596	33,494	36,441	31,697
Lubricating oil ..	1,532	1,146	1,536	1,339	1,851	1,789
Paraffin wax ..	441	421	400	15	215	421
Bitumen ..	1,439	2,038	1,721	1,999	1,993	3,306
Gambia—						
Motor spirit ..	3,129	3,438	3,690	3,857	4,785	4,869
Kerosine ..	698	776	737	860	913	1,190
Aviation turbine fuel ..	175	—	—	—	—	2
Other fuel oils ..	115	14	—	—	—	—
Gas oil ..	2,908	3,001	1,554	3,966	4,684	4,572
Diesel oil ..	553	587	1,856			
Lubricating oil ..	354	294	251	203	3,326	517
Asphalt and bitumen ..	867	689	827	—	11	6

*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) Total imports before deduction of re-exports.

(f) Including white spirit.

(g) Including partly refined.

(h) Including aviation turbine fuel from 1963.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES (cont.)						
Ghana—						
Crude petroleum ..	—	205,594	549,593	604,293	487,215	814,973
Aviation spirit ..	3,192	2,859	4,937	1,236	2,055	1,063
Motor spirit ..	130,776	92,810	1,225	1,079	6,295	75
White spirit ..	2	18	345	406	269	383
Kerosine ..	45,126	26,421	20	—	1	—
Aviation turbine fuel ..	14,161	12,866	12,288	20,390	8,347	25,232
Fuel oil (b) ..	29,047	52,516	7,002	7,673	—	—
Gas oil (b) ..	181,824	156,137	222	3,040	—	—
Diesel oil ..	29,001	14,811	750	2	1	4,110
Lubricating oil (b) ..	15,424	14,359	15,095	20,759	10,718	15,176
Greases ..	752	1,398	954	986	796	3,433
Petroleum jelly ..	823	1,095	259	606	1,255	1,145
Asphalt and bitumen ..	39,136	7,480	9,489	12,008	9,282	4,320
Kenya—						
Crude petroleum ..	—	217,566	1,476,566	1,814,865	1,819,368	1,892,312
Aviation spirit (b) ..	13,358	15,033	11,319	5,830	9,861	6,243
Motor spirit (b) ..	117,334	105,171	14,689	821	12,507	4,550
Kerosine ..	(b)(c)96,570	(b)(c)89,171	(b)(c)38,628	(b)(c) 5,350	(b)(c) 86,022	(b)(c)31,877
Gas, diesel, fuel oils (b)	601,182	576,269	53,227	97,819	15,494	93,065
Lubricating oil (b) ..	13,256	5,455	8,529	14,547	8,812	12,307
Greases ..	832	679	134	723	463	616
Petroleum jelly and paraffin wax ..	459	617	447	903	772	701
Asphalt ..	16,910	9,493	4,244	842	1,000	2,598
Malawi—						
Aviation spirit ..			21,102	n.a.	1,598	1,500
Motor-spirit ..			17,895	15,709	20,251	20,089
Kerosine ..			6,203	6,132	7,925	8,904
Aviation turbine fuel ..			556	436	2,468	2,669
White spirit ..			15	2	26	104
Gas oil ..	n.a.	n.a.	21,568	23,086	28,567	
Diesel oil ..			111			
Fuel oil ..			1,390	1,933	2,326	31,370
Lubricating oil ..			1,354	1,690	2,705	3,484
Grease ..			58	81	121	93
Asphalt and bitumen ..			744	1,501	1,318	2,029
Mauritius—						
Aviation spirit (b) ..	2,664	1,225	1,202	2,607	2,004	851
Motor spirit ..	23,509	24,161	21,692	23,159	20,266	27,009
Aviation turbine fuel (b)	836	1,620	3,019	3,453	1,724	8,904
Kerosine ..	5,491	5,165	7,668	13,549	12,226	17,112
Lubricating oils ..	1,881	1,792	2,130	2,292	1,581	2,260
Gas, diesel, fuel oils (b)	47,990	34,617	68,393	58,138	52,689	116,127
Grease ..	200	185	130	114	108	131
Asphalt and pitch ..	2,345	2,739	4,455	5,867	1,795	1,792
Asphalt, natural ..	417	498	512	1,433	559	1,340
Nigeria—						
Aviation spirit (b) ..	(a) 3,919	(a) 19,374	50,661	6,719	(a) 178	14,751
Motor spirit ..	701,905	228,929	270,871	245,782	(a) 3,459	117,615
White spirit ..	21,932	23,736	1,336	746	1,613	1,870
Aviation turbine fuel (b)	43,712	20,730	77,987	64,928	2,754	19,141
Kerosine ..	475,060	132,889	411,782	84,678	13,895	57,810
Gas oil (b) ..	185,837	259,010	320,850	340,225	16,858	129,420
Diesel oil (b) ..	26,256	6,866	(a) 2,613	r(a) 862	(a) 2,405	8,803
Fuel oil (b) ..	140,383	199,517	229,817	255,080	(a) 124,689	137,829
Lubricating oil ..	20,744	22,916	24,352	23,000	30,492	33,088
Petroleum jelly ..	1,159	1,734	1,372	960	1,996	2,361
Asphalt and bitumen ..	19,329	9,739	8,698	23,440	(a) 2,354	(a) 7,970

(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	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES (cont.)						
Rhodesia (e)—						
Aviation spirit	9,417	7,542	4,333	4,802	<i>n.a.</i>	<i>n.a.</i>
Motor spirit	248,642	237,509	148,162	53,682	<i>n.a.</i>	<i>n.a.</i>
Kerosine	42,782	44,564	30,157	32,473	<i>n.a.</i>	<i>n.a.</i>
Aviation jet fuel	32,664	35,661	32,319	10,110	<i>n.a.</i>	<i>n.a.</i>
White spirit	2,253	2,260	1,853	976	<i>n.a.</i>	<i>n.a.</i>
Other oils	1,372	1,052	1,064	1,218	<i>n.a.</i>	<i>n.a.</i>
Gas oil	191,788	202,243	148,703	46,425	<i>n.a.</i>	<i>n.a.</i>
Fuel oil	6,065	6,105	955	210	<i>n.a.</i>	<i>n.a.</i>
Lubricating oil	21,153	18,263	12,329	13,754	<i>n.a.</i>	<i>n.a.</i>
Greases (c)	2,040	1,601	1,286	1,634	<i>n.a.</i>	<i>n.a.</i>
Paraffin wax	2,022	1,437	2,095	1,671	<i>n.a.</i>	<i>n.a.</i>
Asphalt and bitumen	21,254	17,406	15,009	5,212	<i>n.a.</i>	<i>n.a.</i>
St. Helena—						
Motor spirit	220	270	295	292	313	404
Kerosine	130	148	105	134	92	238
Fuel oils	208	115	264	614	397	364
Lubricating oil	15	17	19	16	12	6
Seychelles—						
Motor spirit	370	521	639	773	920	1,044
Kerosine	402	544	445	531	604	777
Fuel oil	860	1,660	2,538	2,885	3,500	4,081
Sierra Leone—						
Aviation spirit (a)	1,454	1,391	2,065	2,494	1,499	<i>n.a.</i>
Motor spirit	21,571	21,680	20,973	25,748	24,647	<i>n.a.</i>
Aviation turbine fuel (a)	802	1,924	<i>n.a.</i>	6,157	3,069	<i>n.a.</i>
Kerosine	13,574	12,886	15,615	9,830	10,131	<i>n.a.</i>
Gas oil (a)	158,084	131,787	244,060	(d) 3,392	149,449	<i>n.a.</i>
Diesel oil (a)						
Fuel oil (a)	179,422	177,673	16,218	25,085	9,833	<i>n.a.</i>
Lubricating oil	2,317	2,475	3,557	2,174	2,141	<i>n.a.</i>
Asphalt and bitumen	2,972	5,676	2,947	3,500	<i>n.a.</i>	<i>n.a.</i>
Tanzania—						
Crude petroleum	—	—	—	—	281,468	658,102
Aviation spirit (a)	4,603	1,512	3,777	4,669	3,073	5,133
Motor spirit	63,316	61,057	43,446	11,587	(d) 32,672	21,353
Aviation turbine fuel (a)	<i>n.a.</i>	<i>n.a.</i>	6,232	<i>n.a.</i>	14,783	5,997
Kerosine	37,525	39,115	32,543	18,972	10,424	2,751
Gas, diesel, fuel oils (a)	175,379	205,094	66,499	45,553	(d) 26,239	60,031
Lubricating oil	8,086	6,400	6,622	6,567	9,202	10,417
Greases	605	513	348	473	541	460
Petroleum jelly and paraffin wax	91	83	81	116	200	151
Asphalt	3,390	4,600	910	140	810	819
Uganda—						
Aviation spirit (a)	3,334	3,265	3,336	3,604	2,984	4,603
Motor spirit	55,768	62,152	24,449	37,515	—	—
Kerosine	(a)(b)30,108	(a)(b)32,828	(a)(b)19,499	(a)(b)22,152	314	(b) 4,976
Gas, diesel, fuel oils	42,658	44,465	19,998	23,731	12	—
Lubricating oil	3,797	3,874	4,059	4,440	4,405	5,005
Greases	362	305	317	299	329	378
Petroleum jelly and paraffin wax	126	156	193	177	166	244
Asphalt	1,755	709	626	289	51	(d) 68
Zambia—						
Aviation spirit	} <i>n.a.</i>	} <i>n.a.</i>	2,528	3,183	1,255	3,835
Motor spirit			72,769	93,293	69,920	88,174
Aviation turbine fuel			2,141	4,141	12,430	13,972
Kerosine			11,177	14,208	7,632	14,025
White spirit			123	530	36	58

(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 1962 and 1963 relate to Rhodesia and Nyasaland.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967	
COMMONWEALTH COUNTRIES (cont.)							
Zambia (cont.)—							
Gas oil	} <i>n.a.</i>	} <i>n.a.</i>	50,529	65,741	78,293	} 140,916	
Diesel oil			815	2,088	4,009		
Fuel oil			816	2,116	4,276		
Lubricating oil and grease			6,862	10,837	11,317		12,820
Paraffin wax			381	716	1,390		2,528
Canada—							
Crude petroleum	19,216,815	21,102,981	19,137,461	19,224,555	20,868,127	22,771,331	
Tops for refiners	—	6,689	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	
Aviation spirit	75,947	38,818	38,279	19,008	17,357	40,185	
Motor spirit	90,496	242,898	236,183	252,221	276,032	475,491	
Aviation turbine fuel	(<i>c</i>)	(<i>c</i>)	166,594	261,089	265,885	417,594	
Kerosine, etc.	34,782	25,058	(<i>f</i>) 22,525	(<i>f</i>) 34,946	(<i>f</i>) 51,946	(<i>f</i>) 234,895	
Lubricating oils	150,563	157,164	(<i>f</i>) 187,759	(<i>f</i>) 225,931	(<i>f</i>) 256,473	(<i>f</i>) 228,788	
Diesel oil	373,528	382,818	418,501	866,260	852,732	635,768	
Fuel oil	3,094,324	3,416,641	<i>f</i> 4,193,310	<i>f</i> 6,210,475	<i>f</i> 5,979,186	<i>f</i> 7,048,184	
do. (<i>e</i>)	1,269	—	—	—	—	—	
Other petroleum oils	5,178	5,226	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	
Liquefied petroleum gas	6,719	8,945	(<i>f</i>) 7,135	(<i>f</i>) 7,965	(<i>f</i>) 6,680	(<i>f</i>) 22,361	
Grease	6,944	6,534	6,331	6,814	5,984	5,746	
Petroleum jelly	(<i>c</i>)	(<i>c</i>)	1,478	1,476	2,084	2,266	
Paraffin wax	17,006	16,751	15,510	14,971	6,701	7,000	
Asphaltum oil, etc.	6,292	13,224	<i>n.a.</i>	<i>n.a.</i>	25,463	51,301	
Natural asphalt	(<i>g</i>)	(<i>g</i>)	5,968	4,432	11,616	4,627	
Asphalt	15,397	38,082	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	
Petroleum coke	301,846	328,943	(<i>d</i>) 391,381	(<i>d</i>) 366,308	(<i>d</i>) 445,673	505,211	
Other products	138,928	137,647	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	
Natural gas (million cubic feet)	5,575	6,877	8,046	15,673	43,551	52,872	
Antigua—							
Aviation spirit	2,888	5,178	4,096	3,266	4,874	7,397	
Motor spirit	3,243	3,629	1,856	3,433	5,747	63,125	
Kerosine	9,929	21,125	10,626	18,635	35,105	20,579	
Fuel oils	6,745	7,482	5,314	10,377	117,090	7,821	
Lubricating oil	100	235	229	322	2,798	1,423	
Bahamas—							
Motor spirit	40,174	42,357	46,056	49,046	47,600	60,682	
Kerosine	10,233	818	5,822	5,764	8,898	18,440	
Fuel oils	88,204	80,258	113,587	103,820	107,896	139,025	
Lubricating oil	1,112	1,220	1,680	1,768	1,912	6,856	
Barbados—							
Crude petroleum	16,280	29,266	24,589	39,036	72,276	91,892	
Aviation spirit (<i>b</i>)	2,252	2,512	1,880	2,108	3,259	13	
Motor spirit	14,977	21,725	20,411	12,675	14,557	2,790	
Kerosine (<i>a</i>) (<i>b</i>)	15,753	17,850	17,997	19,811	13,108	14,389	
Gas oil and diesel oil (<i>b</i>)	} 221,696	} 262,301	} 93,853	} 147,956	} 275,091	} 241,302	
Fuel oil (<i>b</i>)							
Lubricating oil	668	862	831	1,030	1,143	1,391	
Bermuda (<i>b</i>)—							
Aviation and motor spirits	70,859	59,517	55,053	49,206	40,552	33,162	
Aviation turbine fuel	43,838	37,794	20,711	46,023	30,635	46,288	
Kerosine	22,768	16,583	27,398	34,045	35,664	28,856	
Diesel oil	48,411	40,413	41,819	22,713	844,453	806,867	
Fuel oil	12,349	22,759	29,610	34,509	12,916	33,373	
Lubricating oil	1,025	894	941	718	945	1,150	
Asphalt	1,614	—	1,832	1,157	1,130	2,580	

(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) Including pitch coke.
 (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	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES (cont.)						
British Honduras—						
Aviation spirit	207	489	143	30	—	1,208
Motor spirit	8,089	6,688	9,288	7,873	9,385	10,746
Kerosine	4,744	3,497	3,633	3,748	4,435	3,897
Diesel and fuel oils ..	8,847	7,881	8,620	14,335	12,873	19,255
Lubricating oil	828	6,648	522	770	948	809
Asphalt, etc.	516	1,447	42	14	731	1,174
Cayman Islands—						
Aviation and motor spirits	1,537	1,584	2,295	1,780	2,479	3,123
Kerosine	857	754	1,083	925	885	514
Diesel oil	358	1,036	1,321	908	1,823	1,820
Dominica—						
Aviation and motor spirits	1,753	3,176	2,665	3,093	3,407	n.a.
Kerosine	920	1,176	1,185	1,312	1,180	n.a.
Fuel oil and diesel oil ..	1,011	988	1,166	1,299	1,356	n.a.
Lubricating oil	69	71	107	130	133	n.a.
Road oil	291	239	496	1,535	550	n.a.
Grenada—						
Aviation and motor spirits	3,587	3,498	3,878	4,231	4,873	5,373
Kerosine	2,019	1,458	1,947	2,285	2,479	2,704
Fuel oils	2,115	1,257	708	1,468	2,285	3,759
Lubricating oil	71	90	108	178	133	177
Road oil	56	27	605	6,451	446	16,493
Jamaica—						
Crude Petroleum	—	—	548,332	1,563,971	1,326,919	951,574
Aviation spirit (b)	12,007	(b) 14,765	(b) 11,207	(b) 6,576	(b) 3,657	8,833
Motor spirit	84,927	83,602	36,731	750	109	12,408
Kerosine	37,938	74,290	48,530	1,559	5,516	34,907
Gas oil (b)	53,058	(b) 49,644	(b) 30,463	(b) 18,695	(b) 659	53,580
Diesel oil (b)	89,606	(b) 83,216	(b) 35,127	(b) 12,629	(b) 15,177	76,735
Fuel oil (b)	497,743	(b) 519,478	(b) 427,901	(b) 47,467	(b) 127,880	318,813
Lubricating oil	5,545	5,135	5,818	6,456	8,591	4,990
Grease	385	300	324	8	338	365
Petroleum jelly	246	279	296	230	322	333
Paraffin wax	12	23	57	101	82	176
Natural asphalt	2,348	3,708	6,589	1,804	792	1,439
Montserrat—						
Motor spirit	350	251	517	n.a.	n.a.	n.a.
Kerosine	232	105	326	n.a.	n.a.	n.a.
Fuel oils	606	322	517	n.a.	n.a.	n.a.
Lubricating oil	29	46	61	n.a.	n.a.	n.a.
St. Kitts—						
Motor spirit (a)	2,443	1,559	1,707	r 1,983	2,295	2,320
Kerosine (a)	2,118	1,793	1,983	2,079	2,284	1,987
Fuel oils (a)	2,908	2,201	1,679	2,801	2,949	1,138
Lubricating oil (a)	172	146	161	154	173	333
St. Lucia—						
Motor spirit	2,044	2,758	3,067	3,550	4,165	4,408
Kerosine	975	1,174	1,187	1,296	1,481	1,557
Fuel oil	2,702	2,804	3,181	3,351	3,738	4,756
Lubricating oil	142	142	128	229	189	207
Road oil	1,118	699	1,056	10	1	2,493
St. Vincent—						
Aviation and motor spirits	2,199	3,427	2,708	2,484	2,987	2,973
Kerosine	1,401	1,232	1,643	1,503	1,718	1,721
Gas, diesel and fuel oils	657	819	982	810	1,025	899

(a) Total imports.

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

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES (cont.)						
St. Vincent (cont.)—						
Lubricating oil	76	101	296	87	86	64
Road oil	439	389	585	804	833	623
Asphalt	4	—	n.a.	19	20	28
Trinidad and Tobago—						
Crude petroleum	9,036,205	9,740,022	11,998,998	12,832,504	12,761,889	11,180,069
Aviation and motor spirits	—	13,496	46,484	128	31,028	77,543
Fuel oil	18,337	8	(d) 1	5	29,931	61,021
Lubricating oil	6,572	8,286	8,048	4,452	4,114	3,821
Greases	246		232	297	265	265
Petroleum jelly	88	146	126	108	157	100
Paraffin wax	27	21	96	217	438	615
Turks and Caicos Islands—						
Aviation and motor spirit	131	354	n.a.	n.a.	n.a.	n.a.
Kerosine	203	254	n.a.	n.a.	n.a.	n.a.
Gas, diesel and fuel oils	204	347	n.a.	n.a.	n.a.	n.a.
Lubricating oil	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Virgin Islands—						
Motor spirit	768	891	1,241	1,320	1,522	183
Kerosine	316	395	317	386	638	472
Diesel oil	430	372	578	791	1,397	926
Lubricating oil	30	35	31	64	106	293
Falkland Islands—						
Motor spirit	253	77	303	201	268	317
Kerosine	31	7	24	8	14	18
Gas and diesel oils	54	11,498	4,127	2,612	3,238	5,783
Fuel oil (c)	31,168	14,944	5,705	3,127	n.a.	n.a.
Lubricating oil	25	12	40	23	20	32
Guyana—						
Aviation spirit (c)	4,262	n.a.	3,472	3,739	2,460	4,075
Motor spirit	18,618	n.a.	21,329	22,178	27,614	25,638
Kerosine	17,927	n.a.	18,681	22,369	35,130	25,698
Gas, diesel and fuel oils	287,145	n.a.	480,647	317,086	324,948	366,485
Lubricating oil	2,620	n.a.	2,263	3,259	3,486	3,896
Grease	273	n.a.	237	349	360	491
Paraffin wax	26	n.a.	33	21	40	27
Petroleum jelly	68	n.a.	54	56	89	66
Road oil	527	n.a.	652	1,201	3,108	355
Asphalt and bitumen	1,433	n.a.	1,548	3,922	10,071	11,371
Asphalt natural	753	n.a.	191	351	153	798
Aden—						
Crude petroleum	6,216,214	6,305,476	6,758,120	6,895,912	6,840,415	5,761,180
Motor spirit	33,792	35,393	75,569	114,508	89,886	28,288
Kerosine	761	—	10,881	7,310	—	—
Gas and fuel oils (c)	1,138,797	1,621,335	1,603,304	919,467	1,086,884	328,464
Lubricating oil and greases	6,479	6,815	7,198	5,775	8,295	6,464
Aden Protectorate (b)—						
Motor spirit	7,125	(e)	(e)	(e)	(e)	(e)
Kerosine	8,267	(e)	(e)	(e)	(e)	(e)
Gas and fuel oils	3,691	(e)	(e)	(e)	(e)	(e)
Lubricating oil and grease	198	(e)	(e)	(e)	(e)	(e)
Bahrain Islands (a)—						
Crude petroleum	9,533,000	8,799,000	7,666,000	6,740,000	6,753,000	8,459,000

(a) British Protected State.

(d) Excess of re-exports.

(b) Exports from Aden to the Protectorate.

(e) Included with Aden.

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

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES (cont.)						
Brunei—						
Aviation and motor spirits	103	272	509	1,023	2,124	2,729
Kerosine	1,547	1,741	1,557	717	1,764	1,309
Diesel oil	(c) 27	(c) 98	(c) 8	(c) 16	8	15
Fuel oil	4	—	(c) 3	(c) 1	4	—
Lubricating oil	1,670	934	1,019	1,292	1,813	1,623
Grease	117	50	95	25	53	35
Ceylon—						
Aviation spirit (a)	1,985	1,683	929	9,327	13,334	12,791
Motor spirit	134,160	136,683	102,780	161,813	159,313	159,266
Kerosine	176,634	136,826	151,694	180,783	291,577	224,329
Gas oil (a)	153,647	129,409	111,428	186,450	138,080	193,525
Diesel oil (a)	138,973	131,569	136,650	141,058	165,925	168,234
Fuel oil (a)	391,499	332,784	305,286	287,568	549,078	457,181
Lubricating oil	12,788	16,363	9,857	14,463	15,259	12,498
Other oils and greases	637	174	117	399	653	250
Paraffin wax	506	108	642	615	1,735	803
Asphalt (incl. natural)	3,718	4,183	10,314	5,777	21,161	18,602
Cyprus—						
Aviation spirit (a)	3,704	3,617	6,392	6,211	2,253	1,544
Motor spirit	59,408	56,798	54,782	63,870	68,336	75,637
Aviation turbine fuel	4,332	29,303	20,734	4,393	3,624	—
Kerosine, etc.	25,273	24,501	26,560	18,766	30,360	34,597
Gas oil	68,090	76,916	82,122	86,365	86,436	99,896
Other fuel oils	111,824	126,936	99,707	162,584	189,224	192,040
Lubricating oil	2,812	4,370	2,715	4,382	4,354	4,898
Paraffin wax	194	93	206	111	126	152
Asphalt and bitumen	13,527	15,872	10,480	10,600	12,156	15,215
Hong Kong—						
Aviation spirit	6,923	4,885	3,273	4,977	11,019	11,502
Motor spirit	54,812	66,346	64,359	65,285	74,777	80,600
White spirit	9,940	8,168	9,690	14,866	20,869	31,406
Aviation turbine fuel	83,149	106,830	98,127	159,299	161,536	201,869
Kerosine	120,439	141,708	130,675	130,538	169,500	178,538
Diesel oil and gas oil	243,716	271,116	264,440	300,774	377,854	389,758
Fuel oil	969,656	1,124,850	1,225,510	1,356,817	1,389,896	1,754,796
Lubricating oil	15,553	13,430	19,708	13,828	16,761	15,624
Greases	917	904	849	1,060	979	848
Petroleum jelly	264	315	376	183	290	310
Paraffin wax	1,410	1,317	1,141	1,120	7,132	5,727
Asphalt and bitumen	11,272	10,958	13,547	12,542	12,469	12,621
Asphalt (natural)	483	403	325	357	323	215
India (b)—						
Crude petroleum	4,258,742	7,024,269	4,161,948	5,427,392	5,067,363	9,788,560
Aviation and motor spirits	} 98,559	80,038	63,114	n.a.	n.a.	n.a.
Other spirit						
Kerosine	1,590,508	1,289,740	848,808	n.a.	n.a.	n.a.
Diesel oil	452,200	560,081	3,721,319	n.a.	n.a.	n.a.
Fuel oil	200,920	905,390	296,173	n.a.	n.a.	n.a.
Lubricating oil and grease	272,903	380,703	281,209	n.a.	n.a.	n.a.
Petroleum jelly	1,513	1,570	3,622	n.a.	n.a.	n.a.
Paraffin wax	16	—	2	n.a.	n.a.	n.a.
Asphalt and bitumen	10,525	6,963	3,056	642	310	319
Malaysia (West)—						
Crude petroleum	n.a.	n.a.	n.a.	2,224,834	2,645,259	2,856,612
Aviation spirit	n.a.	n.a.	n.a.	1,866	4,159	349

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

(b) Years ended March 31 following that stated.

(c) Excess of re-exports

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES (cont.)						
Malaysia (West) (cont.)—						
Motor spirit	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	96,897	82,464	92,436
White spirit	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	8,969	5,755	10,955
Aviation turbine fuel ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	14,033	21,052	9,409
Kerosine	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	43,543	41,458	41,240
Gas oil	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	223,253	286,927	342,530
Diesel oil	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	30,671	37,594	41,509
Fuel oil	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	16,578	35,865	20,526
Lubricating oil	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	21,917	22,534	24,078
Paraffin wax	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	3,087	2,521	2,409
Petroleum jelly	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	349	391	452
Grease	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,392	1,244	1,389
Asphalt and bitumen ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	10,773	9,901	8,411
Natural asphalt.. ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	144	264	1,084
Pakistan—						
Motor spirit	115,798	88,402	31,782	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Kerosine	238,542	157,995	1,026,625	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Diesel oil	769,334	827,844	1,039,519	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Fuel oil				<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Lubricating oil	47,147	84,816	52,903	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Paraffin wax	1,107	1,155	2,293	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Asphalt	41,836	30,140	53,809	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sabah—						
Aviation and motor spirits (a)	22,646	23,974	21,584	20,762	29,092	27,997
Kerosine	9,425	12,771	11,115	(c) 24,389	(c) 20,092	23,056
Diesel oil (a)	35,590	44,314	49,016	54,665	66,862	66,454
Fuel oil (a)	7,561	8,519	8,819	10,492	11,878	13,654
Lubricating oil	3,640	3,292	3,323	4,691	5,082	4,970
Sarawak—						
Crude petroleum	3,840,782	3,382,548	3,494,507	3,826,614	2,702,491	2,868,792
Aviation spirit	594	226	1,921	4,062	2,463	526
Motor spirit	13,174	14,489	15,447	22,005	22,775	22,725
Kerosine	11,155	13,176	13,874	9,423	9,516	9,847
Aviation turbine fuel ..	—	—	3,392	20,641	18,945	13,070
Gas oil	15,830	18,342	28,777	21,981	25,132	25,167
Diesel oil	4,635	4,319	7,130	22,288	19,878	15,343
Fuel oil	6,225	(b) 8,895	310	999	4,985	2,614
Lubricating oil	2,650	2,776	2,024	3,746	4,061	4,206
Paraffin wax	16	12	11	5	5	7
Mineral jelly	31	39	22	32	19	19
Natural gas (million cubic feet)	2,473	1,952	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Singapore—						
Crude petroleum	3,265,971	3,561,908	2,298,787	2,611,311	3,616,063	5,427,414
Aviation spirit	162,990	158,218	150,415	221,543	270,271	318,957
Motor spirit	581,389	657,002	573,634	443,463	584,147	521,547
White spirit	192,861	157,860	48,312	38,684	38,721	35,710
Aviation turbine fuel ..	273,934	206,981	173,903	542,677	980,487	1,364,987
Kerosine	423,089	340,838	293,804	443,462	353,304	294,688
Gas oil	645,820	819,839	655,721	677,199	819,726	900,700
Diesel oil	868,341	545,693	358,887	201,630	238,024	206,812
Fuel oil	2,162,328	2,457,507	3,428,784	4,165,714	3,466,158	3,581,234
Lubricating oil	28,632	50,528	63,912	88,181	120,708	117,406
Petroleum jelly	448	578	298	347	232	388
Grease	920	1,349	505	736	690	881
Asphalt and bitumen ..	23,049	13,414	4,879	5,888	6,062	3,163
Petroleum coke.. ..	4,015	6	3	26,065	21,048	76,522

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

(b) Excess of re-exports.

(c) Including aviation turbine fuel.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
<i>(cont.)</i>						
Australia (c)—						
Crude petroleum ..	13,373,103	14,887,129	15,287,562	16,198,642	17,555,088	19,724,114
Aviation spirit (a) ..	48,004	46,889	63,736	68,573	63,711	60,763
Motor spirit	522,474	723,805	704,752	688,752	714,006	370,863
White spirit	46,806	49,014	49,279	25,130	(b) 6,207	4,180
Kerosine	254,197	224,597	166,176	92,450	87,425	50,921
Aviation turbine fuel (a)	74,657	119,923	87,207	150,619	177,143	83,164
Lubricating oil ..	183,764	235,195	183,843	119,769	73,524	57,039
Gas, diesel and fuel oils						
(a)	271,150	359,396	512,360	970,144	814,507	728,777
Other oils	9,209	11,795	10,725	7,776	n.a.	n.a.
Petroleum jelly ..	1,236	1,817	1,711	1,748	2,043	901
Paraffin wax	5,405	8,871	10,764	8,700	13,040	10,825
Natural asphalt ..	1,277	1,777	1,494	486	3,711	644
Bitumen and pitch ..	544	6,175	1,610	2,207	190	230
Fiji—						
Aviation spirit (a) ..	9,517	3,733	r 3,472	r 3,253	3,698	2,287
Motor spirit	19,202	21,256	27,865	26,944	22,462	24,430
Aviation turbine fuel (a)	32,460	32,028	r 43,009	r 55,310	53,285	63,223
Kerosine	6,768	7,502	9,552	10,995	7,922	8,186
Gas oil (a)	14,337	10,113	r 19,066	r 24,075	16,332	23,208
Diesel oil (a)	35,235	42,535	r 50,453	r 41,482	46,594	40,067
Fuel oil (a)	844	4,366	r 38,405	r 16,599	23,081	19,989
Lubricating oil ..	1,537	1,593	2,242	1,967	2,187	2,082
Greases	140	174	188	217	150	190
Bitumen	1,152	1,595	1,793	2,832	1,665	1,956
New Guinea (c)—						
Aviation and motor						
spirits	19,322	26,979	25,955	26,042	32,477	37,161
Kerosine	2,935	4,926	4,647	6,739	5,477	5,273
Fuel oils	21,049	27,587	26,122	30,703	43,750	55,051
Lubricating oil ..	1,115	1,261	1,342	1,892	2,597	2,332
New Hebrides—						
Aviation spirit	274	207	257	258	307	402
Motor spirit	1,825	1,882	1,992	1,748	2,227	1,921
Kerosine	1,218	1,049	593	712	730	520
Lubricating oil ..	426	300	268	438	333	496
Other oils	5,421	5,465	6,469	8,084	8,099	11,053
New Zealand—						
Crude petroleum ..	—	—	(c) 189,467	(c) 2,599,763	(c) 2,732,753	(c) 2,907,971
Aviation spirit (a) ..	} 960,435	(c) 980,930	c 1,021,616	(c) 512,473	(c) 101,123	(c) 242,003
Motor spirit		(c) 16,890	(c) 20,740	(c) 26,528	(c) 20,864	(c) 23,189
White spirit	11,394	(c) 47,763	(c) 59,242	(c) 84,904	(c) 93,272	(c) 115,837
Aviation turbine fuel ..	46,338	(c) 29,706	(c) 48,431	(c) 37,633	(c) 31,766	(c) 33,243
Kerosine	39,280	(c) 306,196	(c) 391,742	} c 204,988	(c) 74,589	(c) 165,056
Gas oil	327,618	(c) 95,430	(c) 106,976		(c) 67,709	n.a.	(c) 5,239
Diesel oil (a)	138,262	(c) 366,137	(c) 379,428	(c) 47,174	(c) 5,472	(c) 49,319
Fuel oil (a)	306,157	(c) 39,990	(c) 41,071	(c) 2,089	(c) 389	(c) 247
Lubricating oil (a) ..	46,712	(c) 1,327	(c) 2,198	(c) 385	(c) 387	(c) 388
Transformer oil	1,767	(c) 346	(c) 353	(c) 2,169	(c) 3,045	(c) 1,937
Petroleum jelly	240	(c) 1,677	(c) 1,738	(c) 31,908	(c) 911	(c) 671
Paraffin wax	2,141	(c) 63,636	(c) 62,203	(c) 368	(c) 446	(c) 352
Asphalt and bitumen ..	63,722	(c) 637	(c) 436			
do. natural	240					
Papua (c)—						
Aviation and motor						
spirits	11,333	13,528	18,814	14,265	13,314	21,621
Kerosine	1,319	2,182	2,401	5,398	6,872	8,094
Fuel oil	6,588	6,781	7,947	18,111	15,482	15,880

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

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

(c) Years ended June 30 of that stated.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
<i>(cont.)</i>						
Papua (d) (cont.)—						
Lubricating oil and grease	511	512	834	885	1,018	973
Solomon Islands—						
Aviation spirit	172	172	269	404	401	349
Aviation turbine fuel					56	16
Motor spirit	1,100	899	1,020	1,218	1,268	1,545
Kerosine	543	591	708	771	758	837
Fuel oils	3,357	3,176	4,210	5,078	5,243	7,642
Lubricating oil	119	145	189	300	287	367
Western Samoa—						
Motor spirit	3,708	4,019	4,575	4,383	4,386	4,583
Kerosine	781	910	1,000	1,021	1,013	1,091
Fuel oil	1,035	1,854	1,961	2,675	2,163	2,569
Lubricating oil	148	104	175	200	155	207
Irish Republic—						
Crude petroleum	1,616,420	1,740,789	1,861,734	2,167,718	1,669,114	2,681,472
Aviation spirit (b)	39,472	21,025	22,503	15,883	17,265	11,567
Motor spirit	9,313	7,876	25,055	14,790	91,638	50,238
White spirit	3,315	2,984	4,539	3,925	3,293	3,720
Kerosine	70,656	88,594	83,867	77,865	87,697	70,096
Aviation turbine fuel (b)	106,767	94,896	124,715	129,881	139,499	162,949
Gas and diesel oils (b)	9,544	9,428	10,597	25,712	85,976	46,614
Fuel oil (b)	193,884	254,397	277,448	394,628	623,516	763,130
Lubricating oil	22,810	22,426	26,846	23,831	28,916	29,286
Greases	246	241	352	267	276	317
Other oils	3,423	3,050	2,341	3,188	11,464	40,118
Paraffin wax (c)	2,111	2,783	1,930	1,817	2,897	2,386
Asphalt and bitumen	87,755	3,244	5,089	2,657	3,227	11,896
do. natural	152	7,711	3,198	12	781	580
OTHER COUNTRIES						
Austria—						
Crude petroleum	618,378	811,662	775,394	651,219	1,143,989	1,073,627
Motor spirit	519,430	514,900	468,158	459,211	592,388	578,517
White spirit	6,933	6,409	6,589	7,013	7,263	6,251
Gas oil	61,431	69,110	79,937	102,391	110,526	113,381
Fuel oil	875,487	1,007,613	1,222,641	1,177,398	1,196,339	1,208,651
Lubricating oil, etc.	38,103	43,412	48,044	49,104	69,879	54,562
Petroleum jelly	280	272	293	295	320	308
Paraffin wax	5,630	6,344	6,856	7,205	7,068	7,237
Ozokerite and ceresin (a)	339	283	205	143	118	175
Natural asphalt	1,695	2,392	1,921	1,817	1,312	1,074
Petroleum coke	563	8,763	10,794	6,601	15,560	15,871
Bitumen, etc.	82,807	106,379	112,647	131,762	157,975	188,801
Belgium-Luxemburg						
E.U.—						
Crude petroleum	8,401,677	11,860,905	13,074,070	15,222,247	16,325,827	17,309,891
Motor spirit, etc.	423,065	343,866	269,138	324,763	362,132	418,734
Kerosine	40,460	22,002	28,607	16,981	17,142	55,702
Gas oil	1,100,286	1,123,187	1,146,457	1,507,141	1,863,925	2,238,959
Fuel oil	2,273,488	2,168,449	2,793,024	2,150,607	2,510,756	2,513,771
Lubricating oil	196,278	205,704	220,214	208,609	263,043	274,770
Other heavy oils	337	55,885	13,096	36,164	21,789	16,310
Petroleum jelly	1,441	1,348	1,204	1,196	1,289	982
Paraffin wax	6,507	6,711	8,007	7,067	7,063	7,974
Ozokerite and ceresin (a)	145	163	109	318	339	198
Petroleum coke	34,902	79,173	81,684	84,624	96,694	89,062

(a) Including montan wax.

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

(c) Including other mineral jellies and waxes.

(d) Years ended June 30 of that stated.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long ton:

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES (cont.)						
Belgium-Luxemburg						
E.U. (cont.)—						
Natural asphalt.. ..	2,747	4,264	4,972	3,399	7,354	7,583
Pitch	18,521	25,515	26,967	33,139	39,483	41,269
Bulgaria—						
Crude petroleum	<i>n.a.</i>	444,000	1,782,000	2,165,000	2,562,873	<i>n.a.</i>
Denmark—						
Crude petroleum	1,263,488	1,719,782	2,924,240	3,296,634	4,571,483	6,434,807
Aviation spirit	120,597	33,274	58,450	63,751	57,405	51,027
Motor spirit	945,344	896,982	983,904	1,112,099	1,017,074	781,043
White spirit	20,315	17,106	17,758	13,312	10,618	11,886
Kerosine	298,983	391,897	150,999	144,582	146,544	110,227
Gas oil	1,138,385	1,298,907	1,201,468	1,004,792	(a)3,075,648	(a)2,659,224
Diesel oil	868,078	1,056,309	1,251,575	1,736,059	(a) 159,931	(a) 46,543
Fuel oil	2,360,095	2,378,893	2,653,885	2,725,151	2,696,835	2,160,704
Lubricating oil	80,244	66,115	85,701	80,994	103,692	85,481
Grease	1,311	1,427	1,320	1,788	1,759	1,333
Petroleum jelly	500	504	450	511	525	582
Ozokerite, etc.	1,351	1,093	1,164	799	1,008	1,247
Paraffin wax	5,890	5,768	6,328	7,283	7,958	8,011
Natural asphalt	1,752	1,976	2,473	1,434	1,407	1,384
Other asphalt	111,639	108,790	149,529	177,851	187,780	207,964
Faroe Islands—						
Motor spirit	2,058	2,578	2,302	2,950	3,217	3,644
Kerosine	2,687	2,080	3,398	3,860	2,363	3,357
Fuel oils	31,485	31,553	30,280	34,421	36,478	45,144
Lubricating oil, etc. ..	476	492	530	615	600	559
Finland—						
Crude petroleum	1,488,311	1,524,865	3,040,341	2,271,436	2,600,668	4,891,801
Motor spirit	16,506	18,911	12,210	26,457	<i>n.a.</i>	83,141
White spirit	6,145	5,255	5,189	8,194	5,698	4,587
Kerosine	24,392	26,507	17,300	23,183	25,433	20,729
do. Power	1	6	35	2	39	—
Fuel oil	1,863,309	1,913,954	2,192,472	3,131,687	1,591,760	2,968,904
Lubricating oil	48,796	46,839	59,540	64,440	77,011	65,665
Petroleum jelly	511	470	330	337	394	318
Paraffin wax	5,065	6,912	7,157	8,553	8,103	7,106
Asphalt, etc.	16,744	14,600	18,446	17,720	19,812	24,827
France—						
Crude petroleum	36,573,573	42,574,849	48,496,711	57,631,540	61,760,699	71,205,103
Aviation spirit	112,344	102,261	95,643	(a) 43,283	(a) 77,561	(a) 75,113
Motor spirit	636,937	586,656	499,056	(a) 422,244	(a) 433,651	(a) 432,820
White spirit	3,844	8,913	8,725	(a) 10,776	(a) 11,660	(a) 14,965
Kerosine	3,040	10,028	5,227	(a) 6,555	(a) 7,011	(a) 9,742
Lubricating oil	18,453	19,269	25,898	(a) 28,521	(a) 45,574	(a) 28,502
Fuel oil	1,588,227	2,529,976	2,588,116	(a)2,259,217	(a) 225,457	(a)1,210,171
Gas oil	212,002	426,176	632,382	(a) 516,782	a 2,275,057	(a)2,523,082
Petroleum coke	130,187	336,418	386,727	196,674	174,183	120,460
Paraffin wax	4,346	5,342	4,379	5,097	2,776	2,789
Ozokerite and ceresin ..	8,676	8,679	9,097	130	90	72
Petroleum jelly	671	696	706	564	512	581
Natural asphalt and bitumen	2,066	2,153	1,629	2,136	3,052	2,281
Bitumen	305	184	313	656	3,730	7,212
Natural gas (million cu. ft.)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	11	22	<i>n.a.</i>
Germany (Federal)—						
Crude petroleum	32,677,499	39,444,856	50,466,543	58,135,270	66,617,607	70,862,200
Aviation spirit	164,174	159,415	177,076	} 990,978	1,401,074	{ 170,981
Motor spirit	398,946	424,246	646,571			
White spirit	7,367	12,354	21,990	25,037	31,111	35,347
Kerosine	13,015	20,092	32,613	15,276	13,020	23,236

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

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (Federal)						
<i>(cont.)—</i>						
Aviation turbine fuel	166,473	122,150	190,925	216,711	265,989	350,118
Gas and diesel oil ..	1,083,065	1,419,579	2,137,570	2,475,567	1,415,487	1,153,249
Fuel oil	9,237,703	10,267,190	8,882,234	10,019,372	11,760,103	12,451,914
Lubricating oil, etc.	215,742	175,330	242,406	189,533	189,373	149,805
Petroleum jelly ..	1,936	1,388	1,741	1,564	1,437	1,359
Paraffin wax	24,244	20,959	24,839	21,083	28,565	32,891
Ozokerite, etc. ..	27	5	3	—	—	—
Natural asphalt and bitumen	14,079	16,717	18,118	16,437	20,913	18,483
Bitumen	459,162	845,838	671,130	488,400	528,359	314,397
Petroleum coke ..	120,920	165,580	194,787	278,803	368,761	317,573
Germany (East)—						
Crude petroleum ..	2,550,000	3,113,000	4,193,000	5,051,000	6,338,000	6,535,000
Greece—						
Crude petroleum ..	1,437,274	2,129,000	1,678,770	2,548,843	3,064,299	3,929,393
Aviation spirit ..	13,587	11,295	11,690	11,927	8,956	10,700
Motor spirit	13,029	16,175	15,202	102,142	153,978	82,652
White spirit	1,163	1,440	1,866	2,476	2,915	3,746
Kerosine	2,868	503	1,359	3,938	3,744	n.a.
Fuel oil and diesel oil ..	1,049,261	1,385,879	1,220,547	1,978,947	1,275,318	1,031,261
Lubricating oil, etc. ..	23,358	26,809	31,839	37,746	36,815	41,725
Petroleum jelly ..	97	101	107	130	108	104
Paraffin wax	382	427	448	332	354	265
Asphalt and bitumen ..	1,628	7,223	16,083	6,605	991	1,518
Hungary—						
Crude petroleum ..	1,515,703	1,799,056	1,994,252	2,215,000	2,865,000	2,909,314
Motor spirit	61,602	88,136	120,656	106,000	55,000	69,879
Kerosine	—	—	29,320	—	—	—
Gas oil	118,676	177,466	221,783	157,000	129,000	127,947
Fuel oil	65,772	133,221	201,134	100,000	258,000	340,535
Iceland—						
Aviation spirit	12,118	12,857	14,991	15,265	4,720	11,311
Motor spirit	43,910	47,810	42,154	47,247	50,922	52,273
White spirit	470	491	833	15	485	484
Kerosine	1,488	1,272	3,868	490	835	741
Gas oil and fuel oil ..	306,887	343,875	346,170	374,813	403,481	386,985
Lubricating oil	4,794	4,267	4,380	4,707	5,204	4,413
Greases	184	—	—	—	—	—
Paraffin wax	181	188	203	152	174	107
Petroleum jelly ..	4	18	6	16	10	7
Asphalt	1,527	885	416	827	2,174	1,356
Italy—						
Crude petroleum ..	39,399,986	45,366,105	54,241,053	66,225,989	74,937,863	85,074,155
Aviation and motor spirits	119,115	118,775	144,256	279,956	375,110	518,075
Kerosine	946	3,136	9,632	6,647	6,071	25,469
Gas oil	1,021	35,701	—	—	—	—
Fuel oil	2,801,017	3,102,497	1,733,178	1,906,575	2,454,650	2,910,669
Lubricating oil	120,256	155,336	145,004	93,198	92,664	117,168
Petroleum jelly ..	2,079	2,140	2,121	1,788	1,646	1,718
Paraffin wax	23,067	25,197	29,175	12,864	34,609	37,530
Pitch	285	200	1,895	330	437	2,697
Petroleum coke ..	151,885	191,438	238,427	220,682	266,364	264,906
Ozokerite and ceresin ..	328	280	(a)	(a)	(a)	(a)
Natural asphalt and bitumen	2,433	2,496	2,697	2,541	2,569	3,300
Netherlands—						
Crude petroleum ..	19,613,218	20,560,260	23,067,690	25,962,556	29,174,723	31,367,387
Motor spirit, etc. ..	109,550	120,656	277,575	389,719	302,675	502,368
Kerosine	235,305	345,505	369,995	374,078	296,709	423,885
Gas oil	989,196	1,232,137	1,365,985	1,280,555	1,776,059	1,769,166

(a) Included with paraffin wax.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Netherlands (cont.)—						
Fuel oil	3,565,012	2,936,625	3,688,683	4,017,995	3,854,840	4,040,041
Lubricating oil	144,166	157,096	175,801	123,483	346,038	311,731
Petroleum jelly	2,559	2,734	2,570	2,401	1,936	2,164
Paraffin wax	17,966	16,939	25,577	16,059	17,419	17,247
Ozokerite and ceresin (a)	156	128	166	196	195	158
Pitch	60,569	92,933	115,106	116,099	145,862	189,534
Petroleum coke	13,619	39,033	51,592	53,351	97,201	116,697
Natural asphalt	1,738	1,417	1,336	1,494	953	1,463
Norway—						
Crude petroleum	2,317,740	2,495,638	2,655,006	2,710,089	2,887,864	3,141,973
Aviation spirit	24,600	32,381	36,874	45,340	29,880	43,657
Motor spirit	432,831	406,661	399,795	444,463	473,503	543,019
White spirit	18,923	16,372	19,013	17,254	19,908	19,765
Kerosine	89,198	116,888	111,214	134,467	202,092	193,112
Aviation turbine fuel	70,208	76,359	93,579	67,222	112,688	106,622
Diesel oil	269,015	239,655	295,300	295,781	321,923	314,328
Gas oil	715,108	813,741	777,961	855,565	1,018,095	1,060,722
Fuel oil	1,119,421	1,273,368	1,498,522	1,156,662	1,542,826	1,402,718
Lubricating oil	37,442	39,471	44,548	21,157	51,152	52,893
Petroleum jelly	306	273	299	339	410	344
Paraffin wax	2,541	2,735	3,149	4,020	4,017	4,124
Greases	1,633	1,690	1,791	2,024	1,770	1,722
Pitch	11,064	30,929	41,908	51,892	49,679	76,203
Petroleum coke	124,572	113,108	144,290	173,943	169,530	190,371
Asphalt, etc.	14,769	425	1,889	1,524	1,607	1,323
Poland—						
Crude petroleum	1,025,000	1,393,200	1,680,900	3,164,788	3,293,857	3,551,100
Motor spirit		1,090,800				
Kerosine		51,800				
Fuel oils		1,454,700				
Lubricating oil	2,560,019	81,178	2,883,060	2,212,454	2,304,654	2,739,971
Paraffin wax		16,640				
Asphalt		68,991				
Petroleum coke		22,364				
Portugal—						
Crude petroleum	1,312,884	1,474,027	1,495,275	1,689,700	1,532,394	1,723,699
Motor spirit	23,285	21,628	51,366	89,855	100,821	129,848
Kerosine	39,699	19,426	18,446	11,548	18,037	17,640
Aviation turbine fuel	5	674	4,551	11,348	7,154	6,927
Gas oil and diesel oil	293,974	322,393	316,220	282,578	262,135	331,165
Fuel oil	275,512	284,625	266,167	343,815	340,242	353,000
Lubricating oil	32,363	34,796	39,059	45,843	46,527	48,425
Petroleum jelly	130	153	118	140	144	142
Paraffin wax	2,818	2,832	3,582	3,134	3,340	5,097
Ozokerite and ceresin	66	49	167	67	105	87
Bitumen	44,508	39,084	40,960	25,475	41,720	35,767
Natural asphalt	9,569	6,108	615	3,015	1,218	1,581
Spain—						
Crude petroleum	5,425,060	5,798,073	7,392,403	7,941,114	9,975,330	14,391,362
Motor spirit (b)	83,164	37,715	40,520	50,406	38,391	45,770
Kerosine (b)	28,741	9,075	16,798	3,924	46,461	65,376
Aviation turbine fuel	18,822	49,982	67,690	87,353	102,841	56,802
Diesel oil (b)	45,351	40,085	27,535	3,880	7,168	6,990
Lubricating oil (b)	39,333	6,779	32,902	12,593	35,394	14,739
Fuel oil (b)	9,210	34,390	28,241	132,774	145,101	54,662
Petroleum jelly (b)	931	850	1,400	1,274	1,308	1,328
Paraffin wax (b)	735	1,113	4,326	3,261	7,428	9,052
Asphalt (b)	536	1,062	834	1,407	17,951	34,323
Sweden—						
Crude petroleum	2,421,148	2,633,817	3,440,800	3,665,812	3,497,967	5,874,998
Motor spirit, etc.	1,832,333	2,696,592	3,001,259	2,378,378	2,480,620	3,445,774

(a) Including montan wax.

(b) Excluding imports from Canary Islands.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Sweden (cont.)—						
White spirit	50,000	69,802	84,815	68,078	60,022	82,799
Kerosine	318,000	445,298	435,893	348,161	420,475	384,904
Fuel oil and gas oil	9,622,528	11,941,440	12,779,669	12,078,102	15,373,951	14,527,459
Lubricating oil and grease	130,866	123,743	151,360	154,603	151,604	172,458
Petroleum jelly	810	858	979	836	723	839
Paraffin wax	7,846	7,631	7,956	7,080	7,597	6,398
Ozokerite, ceresin, etc.	1,521	1,925	2,129	1,997	1,792	1,687
Asphalt	1,067	683	920	1,021	1,095	713
Pitch	8,424	9,441	9,545	10,473	21,778	38,755
Petroleum coke	9,947	12,700	10,053	24,824	18,966	18,932
Switzerland—						
Crude petroleum	4,202	353,368	824,788	1,190,104	2,315,440	3,873,852
Motor spirit	1,032,682	1,253,188	1,274,386	1,313,958	1,319,360	1,121,731
White spirit	8,861	7,796	8,501	9,490	9,280	9,392
Kerosine	16,425	19,844	16,235	15,954	16,201	10,762
Gas and diesel oils	298,718	494,894	544,227	583,021	488,924	303,341
Fuel oil	3,302,971	4,192,766	3,905,578	4,617,356	4,180,938	3,543,772
Lubricating oil and grease	68,933	77,762	73,660	73,345	74,189	80,787
Petroleum jelly	830	702	742	829	781	781
Paraffin wax and ceresin	5,660	6,090	6,720	7,413	6,465	7,271
Asphalt and bitumen	147,039	191,804	215,752	230,619	264,506	264,238
Petroleum coke	35,954	65,173	49,363	53,550	49,449	10,672
U.S.S.R.—						
Crude petroleum	488,000	535,000	—	—	—	—
Motor spirit	1,556,300	1,510,800	1,363,800	1,202,100	922,200	741,304
Kerosine	240,200	200,400	148,800	166,300	46,900	12,007
Diesel oil	223,100	237,700	226,500	223,000	142,000	238,276
Fuel oil	42,900	50,200	51,700	49,600	324,300	158,260
Lubricating oil and grease	115,300	144,500	152,100	146,400	132,000	134,344
Paraffin wax	33,300	26,500	17,500	11,800	9,800	7,874
Bitumen	61,600	67,000	71,700	65,100	40,100	25,100
Yugoslavia—						
Crude petroleum	735,070	765,773	748,243	1,089,520	2,167,417	2,506,361
Aviation spirit	16,564	10,466	23,186	27,191	27,760	19,204
Motor spirit	—	1	—	1	1,523	7,209
Kerosine	4,632	4,509	5,549	2,527	8,573	12,992
Aviation turbine fuel	—	—	4	—	—	19
Fuel oils	229,432	137,381	258,315	134,896	181,658	567,208
Lubricating oil	19,761	21,671	49,722	14,070	42,880	31,368
Greases	194	334	639	160	3,163	3,690
Paraffin wax	2,682	2,755	3,856	5,035	5,905	3,400
Petroleum jelly	571	648	691	273	288	260
Ozokerite and ceresin	224	327	570	489	416	266
Petroleum coke	13,653	15,255	18,553	21,150	25,992	22,988
Pitch	1,820	21,240	76,349	59,823	17,640	39,022
Algeria—						
Motor spirit	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>r</i> 15,836	31,672	<i>n.a.</i>
Kerosine	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>r</i> 1,651	—	<i>n.a.</i>
Gas oil	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>r</i> 5,687	4,521	<i>n.a.</i>
Fuel oil and diesel oil	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>r</i> 4,229	3,500	<i>n.a.</i>
Lubricating oil	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>r</i> 31,080	26,880	<i>n.a.</i>
Angola—						
Crude petroleum	—	—	—	—	—	34,853
Motor spirit	9,246	10,375	10,140	6,450	6,688	7,227
Kerosine	9,579	6,834	6,019	4,705	6,109	7,231
Gas oil and fuel oil	40,777	15,525	11,960	21,720	32,246	70,096
Lubricating oil	7,818	9,680	9,463	11,168	13,199	12,812
Paraffin wax	24	61	32	73	78	170
Petroleum jelly	27	34	41	33	20	32
Asphalt and bitumen	48	4,078	34	22	4,928	1

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Cameroun—						
Motor spirit, etc. ..	50,684	48,792	58,358	48,895	<i>n.a.</i>	<i>n.a.</i>
Kerosine ..	24,327	26,760	30,008	25,189	<i>n.a.</i>	<i>n.a.</i>
Gas and fuel oil ..	31,584	34,907	44,640	39,710	<i>n.a.</i>	<i>n.a.</i>
Lubricating oil ..	3,939	4,107	8,171	4,942	<i>n.a.</i>	<i>n.a.</i>
Canary Islands—						
Crude petroleum ..	4,100,273	4,554,742	5,044,962	5,243,457	6,051,080	6,490,223
Motor spirit ..	37,897	—	16,157	21,248	23,670	31,995
Diesel (b) ..	18,361	6,312	—	—	6,889	—
Fuel oil (b) ..	22,637	—	—	—	—	—
Cape Verde Islands—						
Motor spirit ..	783	599	629	958	700	<i>n.a.</i>
Kerosine ..	1,610	1,988	2,212	2,360	2,618	<i>n.a.</i>
Central African Republic—						
Aviation spirit ..	(c)	(c)	88	3,499	2,442	2,110
Motor spirit ..			11,414	12,941	10,865	11,888
Kerosine ..			4,202	4,760	4,282	4,888
Gas oil ..			8,872	10,855	10,135	12,250
Diesel oil ..			835	1,007	200	894
Ceuta (a)—						
Kerosine ..	<i>n.a.</i>	—	84	—	—	—
Diesel (b) ..	130,299	121,271	47,924	37,639	41,471	22,305
Fuel oil (b) ..	303,399	292,915	44,762	62,477	56,996	38,654
Lubricating oil ..	367	3,523	3,212	3,632	3,424	3,363
Congo (Republic of)—						
Aviation spirit ..	(c)	(c)	10,635	3,344	2,562	1,809
Motor spirit ..			19,519	15,843	19,044	17,493
Kerosine ..			21,572	7,889	19,080	13,736
Gas oil ..			39,276	39,766	45,743	50,866
Fuel oil ..			4,273	7,615	18,851	19,324
Lubricating oil ..			3,498	3,786	3,574	5,823
Dahomey—						
Aviation spirit ..	832	13,021	478	492	176	332
Motor spirit ..	13,335		15,140	16,722	13,094	15,242
Kerosine ..	12,726		13,664	13,398	10,056	11,194
Gas oil ..	14,795		13,641	15,124	16,211	13,263
Fuel oils ..	535		777	729	1,145	844
Lubricating oil ..	1,146		1,348	1,264	1,398	1,215
Egypt—						
Crude petroleum ..	3,650,185	4,254,450	4,674,980	3,918,497	3,827,174	<i>n.a.</i>
Motor spirit ..	5,529	23,149	8,743	11,059	16,568	<i>n.a.</i>
White spirit ..	29	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Kerosine ..	312,931	138,623	21,713	35,367	139,518	<i>n.a.</i>
Fuel oil ..	81,696	106,839	88,800	1,388	333	<i>n.a.</i>
Gas oil ..	156,576	63,206	34,677	11,378	2,272	<i>n.a.</i>
Diesel oil ..	17,687	3,149	12,290	2,684	148	<i>n.a.</i>
Lubricating oil ..	34,880	65,497	57,036	44,985	84,654	<i>n.a.</i>
Petroleum jelly ..	169	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Paraffin wax ..	151	<i>n.a.</i>	<i>n.a.</i>	3,240	2,474	<i>n.a.</i>
Ozokerite and ceresin ..		<i>n.a.</i>	<i>n.a.</i>	—	—	—
Asphalt and bitumen ..	2,041	2,365	2	491	3	<i>n.a.</i>
Equatorial African Community—						
Aviation spirit ..	23,616	<i>n.a.</i>	(d)	(d)	(d)	(d)
Motor spirit ..	56,702	<i>n.a.</i>	(d)	(d)	(d)	(d)
Kerosine ..	12,158	<i>n.a.</i>	(d)	(d)	(d)	(d)
Gas oil ..	73,760	<i>n.a.</i>	(d)	(d)	(d)	(d)
Fuel oil ..	6,321	<i>n.a.</i>	(d)	(d)	(d)	(d)
Lubricating oil, etc. ..	6,691	<i>n.a.</i>	(d)	(d)	(d)	(d)

(a) Excluding imports from Spain and Canary Islands.

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

(c) Included in Equatorial African Community.

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

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967			
OTHER COUNTRIES									
<i>(cont.)</i>									
Ethiopia (a)—									
Aviation spirit	<i>n.a.</i>	1,684	6,489	<i>n.a.</i>	10,586	8,235			
Motor spirit	<i>n.a.</i>	171,223	90,942	<i>n.a.</i>	58,690	43,871			
Kerosine	<i>n.a.</i>	3,995	3,758	<i>n.a.</i>	5,223	6,265			
Gas and fuel oils	<i>n.a.</i>	13,528	21,420	<i>n.a.</i>	77,272	148,718			
Lubricating oil and grease	<i>n.a.</i>	3,864	4,368	<i>n.a.</i>	5,066	6,652			
French Somaliland—									
Motor spirit	3,015	4,557	4,651	} 16,250	} 6,803	4,966			
Kerosine	868	1,050	1,493			2,472	1,964		
Fuel oil, etc.	6,055	6,772	8,928			17,790	10,027		
Lubricating oil	467	457	585			467	548		
Gabon—									
Aviation spirit	} (b)	} (b)	3,313	3,080	2,972	2,545			
Motor spirit			11,793	13,275	14,197	14,299			
Kerosine			4,621	4,236	4,841	1,595			
Gas oil			35,620	40,765	53,136	50,768			
Fuel oil			142	207	212	210			
Lubricating oil			3,142	2,825	3,736	3,295			
Ivory Coast—									
Crude petroleum	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	606,560	<i>n.a.</i>			
Aviation spirit	654	1,449	1,222	1,938	896	1,422			
Motor spirit	88,203	86,259	107,574	98,599	2,663	58			
Kerosine	28,171	28,983	32,951	30,125	674	26			
Gas oil	42,730	52,088	69,090	66,497	237	21			
Fuel oils	27,311	29,957	51,722	41,221	286	—			
Lubricating oil	6,766	8,111	10,541	9,832	10,509	11,321			
Liberia—									
Motor spirit	18,241	18,000	23,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>			
Kerosine	8,228	8,300	8,100	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>			
Diesel oil, etc.	57,398	58,000	58,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>			
Lubricating oil	4,135	4,000	4,500	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>			
Libya—									
Motor spirit	65,623	73,902	96,029	100,428	108,007	131,461			
Kerosine, etc.	22,807	29,145	37,615	41,272	77,089	22,428			
Gas oil and diesel oil	88,716	103,779	158,373	151,608	206,746	197,376			
Fuel oil	7,280	17,208	24,237	32,674	59,290	41,285			
Lubricating oil, etc.	6,946	8,260	12,170	9,245	9,991	12,029			
Malagasy Republic—									
Aviation spirit	4,492	4,815	5,985	5,865	5,511	5,583			
Motor spirit	54,354	55,918	60,557	61,573	61,951	10,042			
Kerosine	17,710	18,167	20,236	20,196	17,801	5,027			
Gas oil	46,105	50,385	50,523	72,290	63,190	9,927			
Fuel oils	1,207	1,482	1,357	2,810	2,350	9,348			
Lubricating oil	5,754	6,348	6,372	5,892	5,653	7,111			
Road oil, etc.	3,520	4,759	6,063	6,395	8,407	7,574			
Paraffin wax	761	665	1,427	1,743	2,337	2,397			
Petroleum jelly	21	29	16	22	41	34			
Asphalt and bitumen	18	427	347	24	38	113			
Mali—									
Aviation spirit	3,048	5,702	} 69,142	} 1,874	} 1,219	} 863			
Motor spirit	21,985	27,028					31,326	34,540	40,012
Kerosine	6,362	10,034					10,132	8,953	10,981
Gas and fuel oil	15,450	18,122					23,651	20,865	23,840
Lubricating oil	2,306	2,378					2,149	1,955	2,142
Morocco—									
Crude petroleum	119,293	451,162	1,094,507	1,103,106	1,100,303	1,079,796			
Aviation spirit	11,331	6,084	3,873	4,520	6,514	9,149			
Motor spirit	95,003	2,603	1,304	1,811	1,252	1,368			
White spirit	1,422	1,739	1,444	2,354	2,911	5,848			
Kerosine	28,057	17,290	21,883	21,135	23,468	23,028			
Gas oil	70,981	6,846	9,185	6,559	187	19,476			

(a) Years ended September 10.

(b) Included in Equatorial African Community.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Morocco (cont.)—						
Fuel oil	81,777	9,704	4,827	3,434	706	19,647
Lubricating oil, etc. .. .	17,072	17,673	13,866	15,443	19,272	20,895
Paraffin wax	8,390	5,193	7,522	5,119	7,791	2,938
Asphalt, bitumen, etc. . .	25,566	27,345	33,047	37,082	18,914	22,818
Mozambique—						
Motor spirit	18,516	10,421	27,488	22,067	27,842	<i>n.a.</i>
Kerosine	16,523	15,878	25,168	18,603	21,186	<i>n.a.</i>
Fuel oil	31,059	18,374	50,402	40,319	49,980	<i>n.a.</i>
Lubricating oil	6,130	6,487	9,243	8,848	9,769	<i>n.a.</i>
Paraffin wax	61	79	76	35	2	<i>n.a.</i>
Petroleum jelly	20	43	44	8	5	<i>n.a.</i>
Asphalt and bitumen (a)	6,061	4,303	8,014	6,435	3,999	<i>n.a.</i>
Niger—						
Aviation spirit	2,987	1,336	1,757	1,292	<i>n.a.</i>	1,447
Motor spirit	4,954	11,091	14,366	11,759	13,779	11,301
Kerosine	3,001	3,634	4,747	4,532	—	6,274
Gas oil	5,008	9,659	<i>n.a.</i>	2,704	—	14,774
Fuel oils	1,767	2,485	3,251	3,961	—	5,783
Lubricating oil	983	530	1,077	1,062	—	1,166
Reunion—						
Motor spirit, etc.	18,934	22,293	25,549	27,635	29,264	32,187
Kerosine	2,683	3,866	4,490	6,508	8,268	8,878
Fuel oil, etc.	6,469	8,732	9,153	11,470	16,623	22,267
Lubricating oil	1,209	2,360	1,083	1,303	1,625	1,505
S. Tome and Principe—						
Motor spirit	<i>n.a.</i>	<i>n.a.</i>	1,168	1,287	1,419	<i>n.a.</i>
Gas and diesel oils	<i>n.a.</i>	<i>n.a.</i>	1,275	1,369	1,489	<i>n.a.</i>
Senegal—						
Aviation spirit	3,928	5,563	4,696	2,717	1,980	1,954
Motor spirit	71,821	65,401	37,865	42,776	72,342	64,354
Kerosine	12,324	18,276	6,043	6,937	13,441	11,076
Gas oil	20,209	16,767	9,775	10,849	17,197	18,463
Fuel oils	140,973	146,546	51,348	77,247	79,001	120,053
Lubricating oil	4,231	3,645	4,022	4,151	4,914	39,156
Somali Republic (c)—						
Aviation and motor spirit						
.. .. .	6,470	5,212	6,052	3,849	<i>n.a.</i>	<i>n.a.</i>
Kerosine	942	959	1,114	970	<i>n.a.</i>	<i>n.a.</i>
Gas oil	3,110	2,927	4,437	3,586	<i>n.a.</i>	<i>n.a.</i>
Lubricating oil	260	202	454	133	<i>n.a.</i>	<i>n.a.</i>
South Africa—						
Crude petroleum	1,726,547	2,267,049	(e)5,105,000	(e)5,361,429	(e)5,737,106	(e)6,230,929
Motor spirit (b)	1,191,633	1,056,403	(d) 656,839	(d) 698,243	(d) 774,626	(d) 304,289
Other spirit	17,977	19,184	(d) 6	—	<i>n.a.</i>	<i>n.a.</i>
White spirit	29,803	33,111	36,979	39,925	35,207	28,739
Kerosine	370,520	381,895	(d) 411,669	(d) 340,309	(d) 421,913	(d) 357,888
Gas oil (b)	621,562	581,604	(d) 357,188	(d) 459,223	(d) 608,160	(d) 900,783
Diesel oil (b)	23,535	23,688	(d) 3,858	(d) 85,013	(d) 18,988	<i>n.a.</i>
Fuel oil (b)	228,396	128,292	(d) 149,892	(d) 195,092	(d) 187,184	(d) 169,103
Lubricating oil	143,376	101,208	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Transformer oil	4,069	5,619	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Road oil	346	9	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Other oils	21,990	25,209	(d) 129,604	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Paraffin wax	11,873	13,878	18,724	10,777	10,223	17,016
Asphalt and bitumen	31,014	32,208	6,087	4,961	14,502	8,244
Petroleum jelly	2,976	3,434	3,471	3,924	4,038	4,077
Sudan—						
Aviation spirit (b)	10,169	8,613	10,463	5,740	3,575	14,059
Motor spirit	70,266	81,302	76,849	42,596	(f) 9,348	15,048
Kerosine	60,014	68,468	64,173	31,126	4,909	23,275

(a) Including coal tar and pitch.

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

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

(f) Excess of re-exports.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Sudan <i>(cont.)</i> —						
Gas oil	111,677	141,880	113,564	80,413	22,896	62,909
Diesel oil	23,767	34,321	60,737	10,491	2,160	13,345
Fuel oil	195,998	195,514	158,034	44,039	(a) 9,923	66,744
Lubricating oil, etc. .. .	12,085	13,471	11,902	11,306	(a) 6,600	12,701
Petroleum jelly	8	10	19	38	63	77
Paraffin wax	30	172	36	76	125	74
Asphalt and bitumen .. .	8,631	8,040	7,455	3,847	2,155	1,339
Togo —						
Motor spirit	8,070	7,282	7,868	8,321	9,710	10,587
Kerosine	7,732	7,627	8,490	8,605	10,071	13,221
Fuel oil	13,421	20,526	25,251	26,514	37,966	39,923
Lubricating oil	526	776	1,155	1,084	1,273	930
Tunisia —						
Aviation spirit	73,639	75,979	18,070	1,782	1,356	674
Motor spirit						
White spirit	323	441	577	566	597	784
Kerosine	48,130	51,560	18,324	2,127	3,783	481
Fuel oil	236,571	262,607	68,393	n.a.	3,193	15,882
Gas oil	119,112	136,013	25,164	1,920	225	—
Lubricating oil	8,869	10,864	12,718	10,677	13,488	10,541
Petroleum jelly	19	1	39	44	25	28
Paraffin wax	58	171	r 81	180	218	273
Upper Volta —						
Aviation spirit	1,009	564	34,672	29,905	n.a.	n.a.
Motor spirit	10,774	11,816				
Kerosine	4,918	4,681				
Gas oil	5,345	5,362				
Fuel oils	5,452	5,932				
Lubricating oil	1,365	1,061				
Costa Rica —						
Motor spirit	57,013	62,019	61,982	65,992	69,357	42,928
Kerosine	13,054	13,398	12,143	14,214	14,870	14,654
Diesel oil, etc.	91,641	99,964	136,016	170,828	177,817	100,594
Fuel oil	12,308	15,070	—	—	17,201	105,372
Lubricating oil	7,676	10,196	10,601	10,318	10,210	9,308
Grease	337	266	293	364	294	360
Petroleum jelly	117	125	128	198	133	258
Paraffin wax	1,179	1,591	1,634	1,751	1,947	1,740
Asphalt	4,828	2,841	7,119	10,033	7,511	10,366
Cuba —						
Crude Petroleum	4,078,735	3,791,189	1,414,836	n.a.	n.a.	n.a.
Aviation fuel	28,923	44,243	36,233	n.a.	n.a.	n.a.
Motor spirit	14,452	152,020	83,582	72,831	61,021	n.a.
Gas, oil	104,637	10,696	183,234	n.a.	n.a.	n.a.
Lubricating oil	55,165	50,966	62,474	66,926	67,910	n.a.
Lubricating greases .. .	2,021	1,574	1,652			
Petroleum jelly	334	1,010	1,054	n.a.	n.a.	n.a.
Dominican Republic —						
Aviation spirit	4,488	—	3,000	—	n.a.	n.a.
Motor spirit	66,971	98,000	140,000	70,200	n.a.	n.a.
Kerosine	16,035	19,000	23,000	10,596	n.a.	n.a.
Diesel oil	63,291	50,000	58,000	n.a.	n.a.	n.a.
Fuel oil	n.a.	195,000	235,000	n.a.	n.a.	n.a.
Lubricating oil, etc. .. .	7,135	7,746	9,281	9,304	n.a.	n.a.
Paraffin wax	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Asphalt	10,627	n.a.	n.a.	n.a.	n.a.	n.a.
French West Indies —						
Guadeloupe —						
Motor spirit, etc.	25,797	29,463	29,089	31,588	35,092	43,544
Kerosine	17,634	17,006	16,891	12,026	12,481	13,915
Gas and fuel oil	15,993	15,889	20,523	20,353	29,046	32,790
Lubricating oil	2,507	2,443	2,252	2,516	2,012	2,111

(a) Excess of re-exports.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
French West Indies—						
<i>(cont.)</i>						
Martinique—						
Motor spirit, etc. ..	21,321	57,629	28,581	30,584	30,394	36,781
Kerosine ..	9,013	12,974	11,704	11,395	12,288	13,474
Gas and fuel oil ..	23,815	27,227	33,535	32,948	37,868	39,269
Lubricating oil ..	2,508	2,975	2,586	3,521	3,383	3,842
Greenland—						
Motor spirit ..	2,824	2,773	3,314	4,710	5,152	5,418
Kerosine ..	2,293	3,423	3,389	8,002	5,323	5,061
Fuel oil ..	45,226	53,904	66,478	72,765	79,743	84,700
Lubricating oil ..	470	644	613	1,392	1,343	1,114
Guatemala—						
Crude petroleum, etc. ..	220,532	157,902	188,765	210,911	239,227	202,848
Aviation spirit ..	103,000	92,205	89,915	260,023	11,731	13,594
Motor spirit ..						
Kerosine ..	50,092	49,924	44,356	17,986	1,455	1,488
Diesel oil ..	84,210	52,144	271,035	99,887	123,000	112,000
Fuel oil ..						
Lubricating oil ..	6,369	8,717	9,347	10,210	6,666	7,484
Grease ..	523	633	510	729	619	745
Asphalt ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	4	3	5
Paraffin wax, etc. ..	5,664	5,529	7,133	6,196	7,117	7,640
Honduras—						
Crude petroleum ..	85,146	67,196	68,514	68,809	131,356	90,536
Motor spirit ..	43,587	44,006	50,651	48,677	53,745	56,319
Kerosine ..	12,387	13,397	15,230	16,790	19,540	18,819
Gas, diesel and fuel oils	72,883	92,640	83,545	90,051	97,834	235,630
Lubricating oil ..	4,892	4,003	4,073	4,028	3,352	3,605
Greases ..	465	392		325	363	
Pitch, asphalt, etc. ..	<i>n.a.</i>	442	702	2,305	1,973	2,189
Mexico—						
Crude petroleum ..	2	20,798	82,290	(a) 33	(a) 18	(a) —
Aviation spirit ..	6,528	3,129	3,715	(a) 6,238	(a) 23,633	(a) 14,154
Motor spirit ..	10,343	7,092	9,632	(a) 2,786	(a) 116,225	(a) 12,282
Kerosine ..	420	150	113	(a) 218	(a) 88	(a) 126
Gas oil ..	282	334	26,716	(a) 10,747	(a) 44	(a) 177
Fuel oil ..	91,288	159,354	207,153	<i>n.a.</i>	(a) 46,259	(a) 71,882
Lubricating oil ..	14,768	5,204	7,776	(a) 22,096	(a) 27,083	(a) 56,153
Grease ..	2,443	3,718	2,597	(a) 1,762	(a) 985	(a) 2,912
Paraffin wax ..	1,822	22,655	19,967	20,733	23,421	27,148
Petroleum jelly ..	1,411	2,176	1,641	2,002	1,382	919
Asphalt ..	468	814	505	157	442	607
Asphalt rock ..	173	136	252	352	585	1,102
Natural gas (<i>million cu. ft.</i>)	9,620	9,384	9,299	8,252	8,809	9,669
Netherlands Antilles—						
Crude petroleum ..	39,155,000	38,356,000	40,252,000	40,223,000	39,133,000	40,781,000
Aviation spirit ..	425,000	483,000	700,000	589,000	287,000	201,000
Motor spirit ..	444,000	455,000	215,000	366,000	251,000	349,000
Kerosine ..	82,000	46,000	100,000	230,000	241,000	156,000
Fuel oil ..	3,358,000	4,000,000	2,542,000	899,000	760,000	1,333,000
Diesel oil ..	21,000	20,000	3,000	91,000	104,000	213,000
Gas oil ..	266,000	172,000	64,000	123,000	191,000	262,000
Lubricating oil, etc. ..	17,000	—	2,000	10,000	7,000	—
Asphalt ..	—	—	—	10,000	3,000	2,000
Nicaragua—						
Crude petroleum ..	18,298	143,211	268,983	273,166	206,265	335,210
Aviation spirit ..	64,355	40,796	14,173	11,891	14,648	11,952
Motor spirit ..						
Kerosine ..	18,145	17,432	10,480	2,113	4,182	12,049
Fuel oil ..	103,709	62,414	8,525	8,781	14,122	13,360
Lubricating oil ..	4,109	3,954	6,287	5,713	5,389	7,172
Paraffin wax ..	853	915	1,107	913	1,358	1,133
Petroleum jelly ..						
Natural asphalt ..	—	—	—	3	3	—

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

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Panama Republic—						
Aviation spirit	57,526	32,692	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Motor spirit	59,861	363	459	493	<i>n.a.</i>	<i>n.a.</i>
Kerosine	22,826	1,692	770	1,055	<i>n.a.</i>	<i>n.a.</i>
Diesel oil	42,135	12,620	13,010	16,362	<i>n.a.</i>	<i>n.a.</i>
Fuel oil	168,251	98,231	30,758	19,902	<i>n.a.</i>	<i>n.a.</i>
Lubricating oil	4,707	5,749	4,200	6,126	<i>n.a.</i>	<i>n.a.</i>
Grease	362	399	249	370	<i>n.a.</i>	<i>n.a.</i>
Paraffin wax, etc.	582	847	628	622	<i>n.a.</i>	<i>n.a.</i>
St. Pierre and Miquelon—						
Motor spirit	504	563	645	701	733	832
Gas oil and fuel oil	12,743	10,957	20,194	16,534	22,145	36,338
Lubricating oil	332	217	365	370	453	457
Salvador—						
Motor spirit	64,146	7,422	18,218	6,751	5,818	4,699
Kerosine	32,523	25,118	26,491	10,338	1,840	2,477
Gas oil and diesel oil	53,254	31,750	8,915	1,140	1,424	1,861
Fuel oil	52,886	368,135	467,183	305,327	484,815	472,373
Lubricating oil	3,612	4,436	4,301	4,958	4,958	4,784
Grease	389	388	384	503	523	503
Paraffin wax, etc.	1,106	1,230	1,242	1,633	1,795	1,485
Petroleum jelly	241	239	193	277	198	195
Asphalt	5,124	5,056	6,202	5,431	6,228	7,359
United States—						
Crude petroleum	64,398,618	64,946,020	68,882,069	71,641,242	76,062,104	72,432,447
Aviation spirit	} 299,897	304,265	387,799	270,509	584,257	250,006
Motor spirit, etc.						
Naphtha, etc.	1,281,455	1,078,140	2,721,273	433,455	<i>n.a.</i>	<i>n.a.</i>
Kerosine	379	28,326	18,967	64,031	200	277,433
Aviation turbine fuel	2,213,007	3,325,304	3,102,997	4,051,197	4,220,937	4,102,932
Fuel oil	38,335,669	39,616,420	43,300,000	} 51,082,146	55,488,474	57,443,671
Gas oil and diesel oil	1,314,012	1,241,000	1,600,000			
Unfinished distillates and topped oils	3,028,321	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Lubricating oil, etc.	3,961	3,473	5,223	4,451	4,480	5,600
Road oil, etc.	318,310	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Paraffin wax, etc.	205	668	1,331	1,499	777	<i>n.a.</i>
Ozokerite and ceresin	3,058	3,067	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Petroleum jelly	7,930	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Asphalt (petroleum)	719,124	819,876	} 995,000	1,049,700	1,028,051	1,301,014
Natural asphalt and bitumen	43,930	25,389				
Natural gas (<i>million cu. ft.</i>)	372,389	406,204	427,641	453,199	480,000	564,000
Argentina—						
Crude petroleum	1,097,826	854,790	1,454,214	3,495,878	3,646,397	2,251,675
Motor spirit	50,158	34,062	27,466	62,783	24,972	10,409
Kerosine	328,334	30,667	16,151	13,051	84	7,820
Gas oil	679,302	396,336	753,379	530,187	434,230	150,464
Fuel oil	—	—	—	—	15,796	—
Diesel oil	266,528	57,217	277,531	46,149	—	3,856
Lubricating oil	109,380	72,287	67,956	104,547	93,923	72,369
Grease	647	132	337	353	139	99
Paraffin wax	28	15	53	59	2	1
Petroleum jelly	40	53	234	69	65	—
Bolivia—						
Aviation spirit	10,893	11,931	12,530	10,567	14,402	13,248
Motor spirit	89	67	22	43	30	—
Kerosine	167	82	53	88	82	<i>n.a.</i>
Fuel oil	6,957	163	411	211	207	334
Lubricating oil and grease	2,785	1,363	1,052	1,290	2,191	934
Paraffin wax, etc.	1,699	1,845	1,989	2,117	2,550	2,953
Tar, pitch, etc.	5	10	5	26	17	26

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Brazil—						
Crude petroleum ..	9,803,889	10,210,620	10,632,724	10,085,482	11,143,663	10,392,489
Aviation spirit ..	238,206	200,977	145,817	159,987	128,930	143,741
Motor spirit ..	174,457	313,385	145,522	<i>n.a.</i>	<i>n.a.</i>	233,765
White spirit ..	3	1	2	<i>n.a.</i>	3	24
Kerosine ..	85,025	16,427	245,129	271,738	263,836	219,891
Diesel oil ..	37,549	53,631	<i>n.a.</i>	—	—	19,375
Fuel oil ..	122,001	—	<i>n.a.</i>	19,157	17,071	52,783
Lubricating oil ..	231,679	214,240	260,651	206,339	272,834	275,720
Transformer oil ..	6,669	10,291	7,335	5,928	9,743	10,276
Petroleum jelly ..	1,146	1,461	1,610	1,053	1,561	1,360
Greases ..	58	79	16	23	83	37
Paraffin wax ..	20,574	16,441	14,161	12,267	19,747	21,779
Ozokerite and ceresin ..	1	230	317	125	558	93
Asphalt and bitumen ..	626	515	498	365	711	335
Chile—						
Aviation spirit ..	12,855	697	<i>r</i> 824	343	9,682	<i>n.a.</i>
Motor spirit ..	19,404	12,612	<i>r</i> 14,126	9,759	2,309	<i>n.a.</i>
Kerosine ..	43,384	71,849	<i>r</i> 44,536	66,353	72,605	<i>n.a.</i>
Diesel oil ..	111,109	140,322	<i>r</i> 277,147	114,266	117,992	<i>n.a.</i>
Residual fuel oil (a) ..	991,234	951,231	<i>r</i> 888,813	1,200,269	2,403,942	<i>n.a.</i>
Lubricating oil ..	10,642	12,600	<i>r</i> 9,482	9,611	<i>n.a.</i>	<i>n.a.</i>
Petroleum jelly ..	139	347	<i>r</i> 222	271	<i>n.a.</i>	<i>n.a.</i>
Greases ..	1,243	2,080	<i>r</i> 1,629	1,911	<i>n.a.</i>	<i>n.a.</i>
Paraffin wax ..	5,558	13,371	<i>r</i> 7,789	11,186	9,601	<i>n.a.</i>
Natural asphalt ..	230	1,405	<i>r</i> 433	358	501	<i>n.a.</i>
Colombia—						
Aviation spirit ..	13,040	31,329	42,308	11,838	9,841	2
Motor spirit ..	169,079	3,814	1,100	22	31,510	54,474
Kerosine ..	407	402	55	41	187	8,003
Gas oil and diesel oil ..	468	—	28	9	264	6,964
Fuel oils ..	840	—	—	333	—	—
Lubricating oil ..	34,667	27,846	15,672	9,663	4,426	5,956
Petroleum jelly ..	510	692	409	300	974	415
Paraffin wax ..	23,225	24,783	27,860	19,871	30,685	22,217
Natural asphalt ..	7	9	12	61	257	58
Ecuador—						
Motor spirit ..	<i>n.a.</i>	29,656	<i>n.a.</i>	15,000	<i>n.a.</i>	<i>n.a.</i>
Lubricating oil and greases ..	5,218	6,434	9,995	6,580	<i>n.a.</i>	<i>n.a.</i>
Petroleum jelly ..	90	106	103	113	<i>n.a.</i>	<i>n.a.</i>
Paraffin wax ..	3,506	3,909	3,894	3,979	<i>n.a.</i>	<i>n.a.</i>
Natural asphalt ..	1,723	8,643	2,021	9,309	<i>n.a.</i>	<i>n.a.</i>
French Guiana—						
Motor spirit, etc. ..	2,891	4,036	4,236	4,653	4,923	6,980
Kerosine ..	577	1,107	655	955	948	994
Fuel oil, etc. ..	2,631	4,549	4,803	6,126	6,655	13,901
Lubricating oil ..	220	219	210	481	186	685
Paraguay—						
Motor spirit ..	39,000	40,000	41,000	41,000	31,000	<i>n.a.</i>
Kerosine ..	18,000	19,000	17,000	24,000	14,000	<i>n.a.</i>
Fuel oil, etc. ..	67,000	70,000	76,000	108,000	72,000	<i>n.a.</i>
Lubricating oil ..	2,500	3,200	2,500	4,200	51,400	<i>n.a.</i>
Peru—						
Aviation spirit ..	24,774	27,954	29,018	42,878	40,531	15,038
Motor spirit ..	17,984	44,382	74,149	133,044	239,505	111,974
Diesel oil and fuel oil ..	514,126	441,214	534,835	470,729	625,913	29,424
Lubricating oil ..	16,352	15,025	13,883	30,668	31,560	6,886
Petroleum jelly ..	122	228	197	283	332	302
Paraffin wax ..	8,719	9,749	10,259	12,168	11,295	11,353
Asphalt and bitumen ..	947	339	2,397	928	689	194
Greases ..	1,860	1,860	1,886	2,404	1,898	4,849
Ozokerite ..	23	28	22	46	104	36

(a) Including crude petroleum.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Surinam—						
Motor spirit	1,158	17,518	18,739	16,038	19,068	20,931
Kerosine	5,431	5,352	5,310	5,534	5,771	6,658
Gas oil	745	67,189	78,292	77,962	76,412	95,921
Diesel oil	59,999					
Fuel oil	73,526	74,189	97,119	147,216	229,307	363,068
Lubricating oil	3,731	3,949	3,204	4,200	3,443	4,536
Asphalt	2,997	529	1,250	1,452	1,301	5,102
Uruguay—						
Crude petroleum	1,500,000	1,449,000	1,522,000	1,180,993	1,769,276	1,523,146
Motor spirit, etc.	5,000	6,000	7,000	18,805	2,185	10,003
Kerosine	11,000	—	15,000	<i>n.a.</i>	7,300	4,683
Gas oil	127,947	48,000	23,000	7,601	9,929	9,310
Diesel oil						
Fuel oil				36,968	99,921	16,831
Lubricating oil and greases	13,680	12,600	13,300	10,841	11,584	10,886
Paraffin wax	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	289	350	300
Venezuela—						
Motor spirit	12,086	3,088	16,075	3,630	4,393	22,877
White spirit	430	856	1,215	1,101	1,383	716
Gas and fuel oils	6	34	62	10	13	13
Lubricating oil and grease	19,808	8,278	8,059	5,528	3,890	5,089
Paraffin wax	4,325	5,761	9,128	5,034	2,906	248
Petroleum jelly	607	424	625	759	714	716
Asphalt	99	177	236	161	85	241
Bitumen, pitch, etc.	1,602	664	<i>n.a.</i>	1,517	1,081	1,479
Burma—						
Crude petroleum	—	—	156,615	200,499	<i>n.a.</i>	<i>n.a.</i>
Motor spirit	14,077	5,341	—	3	<i>n.a.</i>	<i>n.a.</i>
Kerosine	15,576	12,515	—	—	<i>n.a.</i>	<i>n.a.</i>
Gas and diesel oils	78,378	14,720	21,442	24,008	<i>n.a.</i>	<i>n.a.</i>
Lubricating oil	14,676	6,368	15,230	13,709	<i>n.a.</i>	<i>n.a.</i>
Grease	542	480	511	657	<i>n.a.</i>	<i>n.a.</i>
Paraffin wax	—	—	—	2	<i>n.a.</i>	<i>n.a.</i>
Petroleum jelly	984	461	234	443	<i>n.a.</i>	<i>n.a.</i>
Asphalt	19,722	15,530	21,304	14,692	<i>n.a.</i>	<i>n.a.</i>
Formosa—						
Crude petroleum	1,238,626	1,470,384	1,265,815	1,377,198	2,554,553	<i>n.a.</i>
Motor spirit	—	—	4	—	6	<i>n.a.</i>
Lubricating oil	24,678	17,961	23,490	25,388	27,967	<i>n.a.</i>
Grease	1,067	372	1,316	1,469	1,585	<i>n.a.</i>
Paraffin wax	1,847	1,836	1,965	2,291	3,427	<i>n.a.</i>
Asphalt	3,653	2,731	3,961	3,561	5,295	<i>n.a.</i>
Indonesia—						
Crude petroleum	1,372,260	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Motor spirit	209,510	147,000	126,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Kerosine, etc.	199,000	64,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Lubricating oil	80,930	65,000	70,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Iran (a)—						
Lubricating oil	25,041	8,130	3,975	1,408	3,329	2,638
Paraffin wax	414	1,100	1,287	651	969	900
Petroleum jelly	615	414	327	753	434	417
Iraq—						
Lubricating oil	2,237	1,279	1,400	4,733	<i>n.a.</i>	<i>n.a.</i>
Israel (b)—						
Lubricating oils	16,287	17,376	18,386	17,196	8,608	2,140
Paraffin wax	1,976	1,839	2,143	2,193	944	556
Petroleum jelly	112	295	117	169	176	131
Asphalt	179	156	204	128	256	259

(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	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES (cont.)						
Japan—						
Crude petroleum ..	39,451,896	51,075,352	64,806,881	75,548,739	89,189,290	108,301,570
Aviation spirit ..	80,217	69,302	37,982	36,093	14,891	1,061
Motor spirit ..	16,569	14,726	367,120	473,284	933,682	1,311,725
Kerosine ..	2,037	44,444	13,425	25,730	31,164	41,148
Aviation turbine fuel ..	75,794	62,465	14,410			
Gas oil ..	10,222	1,840	26,878	29,607	1,962	124,869
Fuel oil ..	8,942,941	9,910,848	11,147,377	13,022,633	11,269,248	12,924,290
Lubricating oil ..	282,365	330,415	431,289	282,986	340,463	519,387
Grease ..	3,334	69,760	7,124	2,502	2,758	4,803
Petroleum jelly ..	3,413	1,814	3,846	3,617	3,634	3,401
Paraffin wax ..	5,253	4,096	5,252	4,851	6,335	10,178
Gilsonite ..	3,925	3,589	3,882	3,214	2,800	3,074
Asphalt and bitumen ..	74	66	327	340	2,735	112
Petroleum coke ..	410,281	582,629	875,447	945,625	1,080,842	1,278,957
Jordan—						
Crude petroleum ..	248,432	324,039	353,597	403,231	462,185	408,587
Motor spirit ..	1,758	1,182	5,109	9,850	5,550	4,295
Kerosine ..	16,333	16,005	10,787	22,790	19,450	16,951
Fuel oil, etc. ..	50,848	30,985	6,411	n.a.	n.a.	2,000
Lubricating oil ..	5,833	4,691	5,776	5,905	5,931	5,367
Natural asphalt ..	307	9,094	n.a.	n.a.	n.a.	n.a.
Korea (South)—						
Crude petroleum ..	9,644	14,100	396,349	709,378	1,325,472	n.a.
Aviation spirit ..	1,457	9,003	1	1,000	3,206	n.a.
Motor spirit ..	78,976	62,956	26	2,000	15,552	n.a.
Kerosine, etc. ..	49,546	51,141	7	—	—	n.a.
Gas, diesel and fuel oils	812,814	1,089,530	113,956	129,000	304,691	n.a.
Lubricating oils ..	12,457	31,865	2,898	4,081	22,960	n.a.
Greases ..	569	941	309	97	181	n.a.
Petroleum jelly ..	220	268	174	260	142	n.a.
Paraffin wax ..	7,826	6,983	2,655	4,594	2,867	n.a.
Asphalt and pitch ..	35,010	63,960	28,279	39,089	n.a.	n.a.
Laos—						
Aviation spirit ..	15,500	21,000	15,000	12,000	26,000	n.a.
Motor spirit ..	14,918	16,000	17,000	22,000	24,000	n.a.
Kerosine ..	2,540	4,000	3,000	5,000	7,000	n.a.
Gas oil ..	4,884	6,000	9,000	13,000	11,000	n.a.
Fuel oil ..	2,286	3,000	4,000	5,000	6,000	n.a.
Lubricating oil ..	980	1,000	3,000	2,000	3,000	n.a.
Lebanon—						
Crude petroleum ..	198,462	1,087,000	1,366,000	n.a.	n.a.	n.a.
Motor spirit ..	198,462	202,814	230,974	265,613	296,610	296,291
Kerosine ..	131,456	46,271	47,065	41,406	44,178	47,568
Fuel oil ..	363,367	473,280	454,011	511,585	539,192	548,529
Lubricating oil ..	1,284	9,218	8,386	10,575	12,515	1,308
Paraffin wax ..	231	239	578	364	401	494
Natural asphalt ..	113	1,125	1,600	149	6	24
Philippine Republic—						
Crude petroleum ..	2,988,521	3,559,994	4,148,988	4,461,889	n.a.	n.a.
Aviation spirit ..	17,621	20,248	29,359	26,902	n.a.	n.a.
Motor spirit ..	86,142	15,825	6,950	32,500	n.a.	n.a.
Kerosine ..	18,404	5,340	850	19,422	n.a.	n.a.
Diesel oil ..	55,491	40,532	9,301	25,532	n.a.	n.a.
Fuel oils ..	57,124	3,594	111	101	n.a.	n.a.
Lubricating oils ..	41,934	56,423	83,859	78,863	n.a.	n.a.
Grease ..	3,544	2,906	3,694	2,612	n.a.	n.a.
Petroleum jelly ..	717	1,213	1,181	1,910	n.a.	n.a.
Paraffin wax ..	6,329	7,336	7,286	7,910	n.a.	n.a.
Asphalt ..	6,238	955	2,124	1,199	n.a.	n.a.
Syria—						
Crude petroleum ..	773,252	866,569	998,843	1,001,359	1,038,142	896,962
Motor spirit ..	5,686	7,332	17,236	9,982	8,110	4,097
Kerosine ..	5,424	7,606	8,109	8,827	7,392	7,822

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967	
OTHER COUNTRIES							
<i>(cont.)</i>							
Syria <i>(cont.)</i> —							
Fuel oil and diesel oil ..	620	<i>n.a.</i>	33,780	129,583	985,993	408,794	
Lubricating oil ..	21,743	16,925	10,709	17,437	22,928	11,371	
Natural asphalt.. ..	9,322	8,504	2,122	609	92	1,359	
Thailand—							
Aviation spirit	35,033	27,508	45,696	36,162	73,297	78,889	
Motor spirit	399,155	361,583	337,535	132,053	120,960	161,969	
Kerosine	100,179	128,123	223,642	382,604	1,271,115	32,581	
Gas, diesel and fuel oils	812,819	990,294	1,009,916	645,040	644,794	602,225	
Lubricating oil	47,896	39,540	52,411	58,768	75,326	84,588	
Grease	2,588	2,917	3,028	2,986	3,952	5,617	
Paraffin wax	2,943	2,057	3,123	1,942	4,229	3,681	
Petroleum jelly	648	796	757	1,090	1,139	1,077	
Asphalt	50,714	44,842	42,202	9,642	1,047	4,245	
Turkey—							
Crude petroleum	1,990,006	3,032,060	3,375,961	3,003,288	2,763,059	2,441,205	
Motor spirit	182,354	4,879	2,530	4,599	1,482	19,319	
Kerosine	291,743	37,893	26,518	33,230	22,331	43,643	
Gas and diesel oils ..	455,174	7	—	1	57,633	154,309	
Fuel oil	57,314	100	—	—	10,931	14,499	
Lubricating oils and grease	62,348	90,317	59,737	50,844	83,712	88,654	
Paraffin wax	1,860	1,741	1,420	2,124	2,572	2,667	
Petroleum jelly	20	163	201	304	496	240	
Asphalt	14	14	1	2	18	—	
Vietnam (South)—							
Aviation spirit	1,822	} 137,100	{ 121	83	<i>n.a.</i>	<i>n.a.</i>	
Motor spirit	125,266			124,154	158,222	<i>n.a.</i>	<i>n.a.</i>
Kerosine	65,555	79,000	72,845	92,271	<i>n.a.</i>	<i>n.a.</i>	
Gas oil	85,469	} 354,700	{ 80,612	88,832	<i>n.a.</i>	<i>n.a.</i>	
Fuel oils	230,314			293,542	384,842	<i>n.a.</i>	<i>n.a.</i>
Lubricating oils and grease	16,422	20,728	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	
Petroleum jelly	100	120	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	
Paraffin wax	2,390	3,771	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	
French Polynesia—							
Motor spirit, etc.	5,744	} 25,464	{ 10,044	16,743	22,839	<i>n.a.</i>	
Kerosine	2,958			3,783	4,156	9,713	<i>n.a.</i>
Other oils	9,471			19,897	45,337	49,829	<i>n.a.</i>
New Caledonia—							
Motor spirit, etc.	16,843	16,690	18,923	21,095	21,695	21,740	
Kerosine	3,670	3,789	3,542	4,438	3,737	4,008	
Gas and fuel oils	49,463	47,549	16,971	133,798	193,671	193,303	
Lubricating oil, etc. ..	17,324	64,243	11,669	8,226	2,226	2,542	

PHOSPHATES
PRODUCTION OF PHOSPHATE-ROCK
(Including Apatite)

Long tons

Producing Country	Estimated Tribasic Phosphate of Lime Content or equivalent							1967
	1962	1963	1964	1965	1966	1967	1967	
COMMONWEALTH COUNTRIES								
Kenya (a)	—	—	—	—	—	—	—	75
Rhodesia (d)	5,338	6,965	1,964	n.a.	n.a.	1,300	n.a.	n.a.
Seychelles (a) (b)	19	—	3,787	5,904	n.a.	2,000	2,000	n.a.
Tanzania (c)	1,105	6,959	9,393	n.a.	n.a.	8,500	n.a.	n.a.
Uganda (d)	22	—	16,123	15,548	—	6,100	14,500	9,600
Jamaica (c)	520,750	651,461	774,801	739,568	950,517	554,000	629,000	837,000
Christmas Island (b)(g)	28,560	12,920	3,985	6,964	15,980	10,000	2,000	4,000
India (d)	—	—	—	—	—	—	—	—
Australia—	—	—	—	—	—	—	—	—
Phosphate rock	4,317	4,909	5,689	4,504	5,715	2,000	2,000	5,300
Guano	68	16	—	15	—	50	10	—
Nauru Island (b)	1,525,650	1,547,242	1,820,066	1,456,535	2,004,592	1,312,000	1,253,000	1,519,000
Ocean Island (b)	256,650	356,128	322,848	359,322	374,030	221,000	309,000	383,000
TOTAL	2,343,000	2,587,000	2,943,000	2,591,000	3,372,000	3,236,000		
OTHER COUNTRIES								
Belgium (e)	12,285	13,416	21,707	(h)20,000	25,000	26,600	2,000	5,000
France (e)	66,000	50,000	42,000	34,000	36,000	63,000	15,000	15,000
Poland	55,000	64,000	88,000	92,000	f 92,000	f 89,000	n.a.	n.a.
U.S.S.R. (f)—	—	—	—	—	—	—	—	—
Apatite	r 6,500,000	r 4,690,000	r 6,570,000	r 7,720,000	8,300,000	8,710,000	r 5,680,000	r 6,750,000
Phosphate rock	r 3,350,000	r 3,750,000	r 4,290,000	r 5,960,000	6,640,000	7,380,000	r 2,210,000	r 2,830,000
Algeria	383,709	342,642	71,726	84,813	63,631	198,000	260,000	48,000
Egypt	592,243	602,403	603,552	584,322	650,398	687,900	370,000	360,000
Morocco	8,033,053	8,413,403	9,938,045	9,669,209	9,290,173	10,378,490	5,913,000	7,310,000

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

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

(g) In addition, the following amounts of phosphate dust were exported (long tons): 1962—79,527; 1963—80,552; 1964—72,416; 1965—90,033; 1966—89,453; 1967—89,773.
(h) Estimated.

PRODUCTION OF PHOSPHATE ROCK (cont.)

Long tons

Producing Country	Estimated Tribasic Phosphate of Lime Content or equivalent						1967
	1962	1963	1964	1965	1966	1967	
OTHER COUNTRIES							
<i>(cont.)</i>							
Senegal	489,239	457,599	666,387	889,106	974,000	1,100,000	406,000
Aluminium phosphates	139,192	123,827	119,029	132,809	142,494	158,735	88,000
South Africa—							
Phosphate rock (h)	302,312	447,729	569,754	600,142	1,046,539	1,330,606	184,000
Guano	4,700	2,552	4,279	3,307	3,303	3,396	1,100
South West Africa (f)	574	1,354	412	1,384	1,804	n.a.	100
Togoland	188,677	509,700	755,400	938,268	1,134,000	1,122,000	153,000
Tunisia	2,064,000	2,333,281	2,707,492	2,991,826	3,165,407	2,841,000	1,342,000
Mexico	(a) 30,000	(a) 30,000	27,454	(a) 39,000	(a) 54,000	48,000	n.a.
Netherlands Antilles (b)	129,474	126,254	117,666	113,075	145,140	99,648	95,000
United States (e)	19,382,000	19,855,000	22,960,000	26,282,000	34,866,000	35,509,000	13,118,000
Argentina (f)	179	798	177	118	64	n.a.	n.a.
Brazil—							
Apatite	305,219	211,888	191,996	188,806	290,552	496,859	177,000
Phosphate rock	251,406	62,503	50,334	85,535	81,837	49,259	n.a.
Chile—							
Apatite	12,295	13,689	12,931	10,111	—	—	7,000
Guano	16,000	22,000	15,000	21,000	15,000	16,000	6,000
Peru (f)	203,000	189,000	201,860	167,214	54,000	64,000	50,000
China (a) (d)	600,000	700,000	800,000	900,000	1,000,000	1,000,000	450,000
Indonesia (g)	6,000	30,000	(c) 30,000	(c) 30,000	(c) 30,000	(c) 30,000	3,000
Israel	207,000	295,000	236,000	382,000	a 394,000	a 590,000	130,000
Jordan	670,254	604,732	555,539	814,865	1,019,576	1,065,244	489,000
Philippine Republic—							
Phosphate rock	3,713	1,049	2,812	10	98	1	n.a.
Guano	93	1,450	1,172	4,106	526	1,295	20
Vietnam (North) (d)	667,000	910,000	a 980,000	a 980,000	a 980,000	a 980,000	580,000
French Polynesia (Makatea)	312,081	330,150	382,292	303,364	174,188	—	256,000
TOTAL	745,000,000	745,000,000	754,000,000	760,000,000	70,000,000	74,000,000	74,000,000
WORLD'S TOTAL	747,000,000	748,000,000	757,000,000	763,000,000	73,000,000	77,000,000	77,000,000

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

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

PRODUCTION OF SUPERPHOSPHATES (cont.)

Long tons

Producing Country	1962	1963	1964	1965	1966	1967	Estimated P ₂ O ₅ Content				
							1962	1963	1964	1965	1966	1967
OTHER COUNTRIES											
<i>(cont.)</i>											
Denmark*—											
Single (a)	478,000	449,300	461,000	475,200	450,300	352,300	86,100	80,900	83,000	85,500	81,100
Enriched	8,108	28,300	34,000	37,600	24,600	24,600	2,600	9,100	10,900	12,000	7,900
Finland*—											
Single	224,116	321,690	371,882	312,900	447,800	303,100	42,600	61,100	70,700	59,500	85,100
Kotka-phosphate	111,556	122,590	138,515	119,000	84,123	85,600	21,200	28,200	26,300	27,400	16,000
France*—											
Single	1,437,116	1,417,400	1,478,052	1,579,400	1,456,700	1,402,500	259,400	260,200	277,300	301,700	279,700
Concentrated	67,083	85,109	143,800	185,543	224,600	332,700	28,200	35,200	61,100	83,900	101,100
Germany (Federal)*—											
Single	276,450	283,300	360,072	419,900	369,600	320,900	51,100	52,600	67,200	80,000	66,500
Germany (East)—											
Single	608,000	674,000	673,000	829,000	856,000	n.a.	109,500	121,300	121,100	149,300	154,000
Greece*—											
Single	151,400	197,800	220,634	184,100	147,300	173,200	28,200	37,500	41,900	35,000	28,000
Hungary—											
Single	417,651	504,722	530,693	605,711	700,000	811,000	71,200	85,800	97,000	114,000	128,000
Italy—											
Single	1,353,000	1,433,000	1,236,000	r1,367,603	1,645,066	1,532,897	276,000	281,000	245,000	r 264,000	310,000
Concentrated	40,000	19,000	23,000								
Netherlands*—											
Single	350,519	373,000	451,013	325,500	259,900	303,100	63,600	67,700	83,500	59,800	48,600
Concentrated	119,982	122,900	155,300	148,340	163,500	183,100	48,000	52,000	69,000	64,200	73,600
Norway—											
Single (c)	38,823	41,200*	40,500*	37,966*	15,000*	18,700*	7,000	7,500	7,200	6,800	2,700
Enriched*(d)	26,054	30,475	29,674	24,000	22,400	16,700	8,400	9,900	8,900	7,000	6,900
Poland (b)—											
Single	979,000	994,000	1,230,000	1,358,000	1,462,000	1,544,000	162,000	164,000	203,000	224,000	241,000
Portugal—											
Single	413,582	435,384	424,524	423,031	401,458	n.a.	74,000	78,000	76,000	76,000	72,000
Concentrated (e)											n.a.

*Source: International Superphosphate Manufacturers' Association.

(a) The majority of this material was used to make potash superphosphate, production of which was as follows (long tons): 1962—765,986; 1963—725,865; 1964—703,092; 1965—743,637; 1966—566,197; 1967—489,865.

(b) The following amounts of "Supertomasyna" were produced (long tons): 1962—256,000; 1963—269,000; 1964—284,000; 1965—296,000; 1966—301,000; 1967—289,000.

(c) The majority of this material was used to make potash superphosphate, production of which was as follows (long tons): 1962—n.a.; 1963—n.a.; 1964—39,616; 1965—31,562; 1966—33,674; 1967—26,575.

(d) Including concentrated superphosphate.

(e) Calculated as single superphosphate.

PRODUCTION OF SUPERPHOSPHATES (cont.)

Producing Country	Estimated P ₂ O ₅ Content						1967	Long tons					
	1962	1963	1964	1965	1966	1967		1962	1963	1964	1965	1966	1967
OTHER COUNTRIES (cont.)													
Roumania—													
Single ..	530,000	610,000	690,000	780,000	960,000	1,010,000							
Spain (a)—													
Single ..	1,823,000	1,980,000	1,880,000	2,000,000	1,700,000	1,520,600							
Sweden*—													
Single (b)	455,338	391,390	417,400	401,300	324,900	303,100							
Enriched ..	21,596	35,750	39,024	47,100	34,900	23,600							
Switzerland*—													
Single ..	24,000	12,000	13,000	9,500	9,200	7,900							
U.S.S.R.													
Single ..	6,924,000	7,734,000	10,508,000	12,047,000	13,696,000	n.a.							
Concentrated ..													
Yugoslavia—													
Single ..	512,000	720,000	953,000	788,000	n.a.	n.a.							
Algeria—													
Single ..	46,200	53,300	87,000	94,000	n.a.	72,800							
Egypt—													
Single ..	161,100	160,978	206,114	247,643	272,547	n.a.							
Morocco*—													
Single ..	93,000	96,500	97,300	(c)110,000	88,300	116,100							
South Africa*—													
Single ..	750,900	837,120	954,300	750,000	787,300	(c)787,400							
Tunisia—													
Single ..	26,500	47,400*	48,000*	78,500*	84,500*(c)	90,000*							
Concentrated ..	144,000	136,000	150,000	155,000	n.a.	n.a.							
Cuba*—													
Single ..	47,800	38,300	52,100	52,000	(c)60,000	(c)59,100							
Mexico—													
Single ..	107,700	n.a.	121,290	129,792	159,777	179,176							
Concentrated ..	23,485	n.a.	41,259	32,663	47,053	43,868							
Salvador—													
Single ..	—	—	7,701	6,124	12,353	15,473							
United States*—													
Single ..	6,017,100	6,084,800	5,980,100	5,533,900	5,637,600	5,860,000							
Concentrated ..	1,835,704	2,207,960	2,680,200	3,205,324	3,334,500	2,938,800							

*Source: International Superphosphate Manufacturers' Association.

(a) Including Canary Islands.

(b) The majority of this material was used to make potash superphosphate, production of which was as follows (long tons): 1962—449,551; 1963—455,448; 1964—479,478; 1965—478,034; 1966—427,676; 1967—427,676.

(c) Estimated.

PRODUCTION OF SUPERPHOSPHATES (cont.)

Long tons

Producing Country	Estimated P ₂ O ₅ Content						
	1962	1963	1964	1965	1966	1967	1967
OTHER COUNTRIES							
Brazil—							
Single	252,288	330,841	345,833	300,459	311,485	445,971	89,200
Colombia—							
Single	n.a.	n.a.	n.a.	5,000*	n.a.	14,800*	2,700
Peru*—							
Single	27,600	33,400	34,900	35,000	(a)35,000	(a)35,000	6,300
Uruguay*—							
Single	(a) 26,000	27,400	29,500	34,000	(a)35,000	(a)40,000	7,200
Venezuela*—							
Single	(a)10,000	n.a.	n.a.	n.a.	n.a.	(a)20,000	4,000
Formosa—							
Single	141,444	169,441	181,931	192,757	208,652	n.a.	n.a.
Israel*—							
Single	79,559	62,800	56,300	54,200	55,800	59,100	10,500
Concentrated (b)	1,111	n.a.	—	5,800	4,900	3,900	1,500
Japan*—							
Single	1,788,700	1,636,300	1,634,100	1,525,400	1,268,400	1,170,200	213,000
Concentrated (b)	14,667	23,300	49,300	63,580	77,200	78,800	28,500
Jordan—							
Single	516	663	1,827	2,654	2,169	757	130
Lebanon*—							
Single	31,100	34,990	47,000	75,400	76,600	(a)78,700	14,200
Philippine Republic*—							
Single	2,000	2,000	3,400	6,000	3,800	3,900	800
Turkey—							
Single	28,000	172,000	149,137	217,800	218,600	202,000	32,000
TOTAL							
	6,200,000	6,800,000	7,900,000	8,400,000	8,500,000	8,400,000	8,700,000
WORLD'S TOTAL	7,300,000	8,100,000	9,400,000	9,900,000	10,200,000	10,400,000	10,400,000

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

*Source: International Superphosphate Manufacturers' Association.

(a) Estimated.

(b) May include enriched superphosphate.

PRODUCTION OF BASIC SLAG

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom ..	(a) 940,617	(a) 812,549	(b) 920,322	(b) 638,875	(b) 655,700	(b) 655,670
OTHER COUNTRIES						
Belgium (a) (c) ..	1,210,000	1,184,000	1,135,000	1,314,000	<i>n.a.</i>	<i>n.a.</i>
Czechoslovakia (c) ..	150,000	147,000	149,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
France ..	2,337,246	2,314,115	2,533,159	2,505,966	2,519,475	<i>n.a.</i>
Germany (Federal) ..	3,170,000	3,006,000	3,186,000	2,933,000	2,742,000	2,654,000
Germany (East) (c) ..	115,000	112,000	118,000	119,000	112,000	123,000
Italy ..	123,272	110,082	86,361	17,667	—	—
Luxemburg ..	773,923	755,297	805,427	823,502	764,561	774,623
Poland (c) ..	427,000	444,000	467,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sweden ..	33,691	29,363	49,729	41,089	51,120	<i>n.a.</i>
Egypt ..	26,202	19,723	29,014	31,309	27,527	<i>n.a.</i>
United States (a) (c) ..	40,000	30,000	—	—	<i>n.a.</i>	<i>n.a.</i>
Colombia (a) (c) ..	<i>n.a.</i>	<i>n.a.</i>	35,000	35,000	<i>n.a.</i>	<i>n.a.</i>

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

(a) Years ended June 30 of that stated.

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

(c) Estimated.

EXPORTS OF PHOSPHATES, ETC.

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Phosphatic fertilizers ..	9,280	839	2,769	19,372	44,193	55,670
Seychelles—						
Phosphatic guano ..	5,338	6,965	3,787	5,904	3,805	3,480
Uganda—						
Phosphate-rock ..	584	464	365	193	—	—
Canada—						
Nitrogen-phosphate fertilizers ..	(£6,475,384)	(£4,329,440)	(£3,403,812)	(£6,453,415)	(£7,558,541)	(£8,978,193)
Christmas Island—						
Phosphate-rock ..	520,750	651,461	774,801	739,568	950,517	984,125
Phosphate dust ..	79,527	80,552	72,416	90,033	89,453	89,773
Malaysia (West)—						
Natural phosphates ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	56	39	32
Australia (a)—						
Superphosphates ..	16	—	—	—	—	—
New Zealand—						
Superphosphates ..	110	(a) 172	(a) 250	(a) 196	(a) 428	(a) 405
Nauru Island—						
Phosphate-rock ..	1,525,650	1,547,242	1,820,066	1,456,535	2,004,592	1,766,567
Ocean Island—						
Phosphate-rock ..	256,650	356,128	322,848	359,322	374,030	445,150
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Phosphate-rock ..	20,197	25,056	28,629	30,710	30,410	20,762
Superphosphates—						
Single ..	148,388	} 211,812	} 277,817	} 216,478	(b) 48,774	(b) 46,067
Concentrated ..	69,485					
Basic slag ..	1,558,412	1,717,465	1,768,548	1,843,036	(b) 268,653	(b) 276,623
France—						
Phosphate-rock ..	1,209	2,549	2,329	14,293	1,638	2,910
Superphosphates ..	31,927	38,290	49,705	38,017	28,264	43,030
Basic slag ..	294,591	298,105	337,678	331,999	337,142	344,742
Di-calcium phosphates	595	465	267	277	9,440	14,551
Germany (Federal)—						
Phosphate-rock ..	33,013	35,653	42,555	34,077	41,840	49,278
Superphosphates ..	14,941	14,489	18,411	21,656	31,800	8,203
Basic slag ..	360,459	401,772	348,782	281,959	220,510	199,990
Other phosphatic fertilizers ..	21,465	9,252	1,759	3,808	3,137	2,409
Greece—						
Phosphatic fertilizers ..	444	49	30	1,014	10,184	25,122
Hungary—						
Superphosphates ..	31,586	15,957	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Italy—						
Superphosphates ..	68,480	47,705	31,417	1,794	2,230	1,085
Netherlands—						
Phosphate-rock ..	3,596	3,450	1,303	961	548	497
Superphosphates ..	364,472	370,075	457,518	371,682	106,020	138,518
Basic slag ..	—	39	187	7,671	757	220
Norway—						
Superphosphates ..	25,949	23,749	18,070	23,952	6,206	4,213
Portugal—						
Superphosphates ..	55,328	91,412	78,795	43,401	63,895	105,649
Spain—						
Superphosphates, etc. ..	59,682	32,342	123,814	56,683	62,980	70,714
Di-calcium phosphates	10,671	3,809	3,100	7,172	2,418	492
Sweden—						
Phosphate-rock ..	—	628	—	—	—	—
Di-calcium phosphates	1,333	7,330	13,479	18,127	16,426	25,644
Basic slag ..	8,020	6,712	22,166	20,031	20,190	24,328

(a) Years ended June 30 of that stated.

 (b) P₂O₅ content.

EXPORTS OF PHOSPHATES, ETC. (cont.)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
(cont.)						
U.S.S.R.—						
Apatite ore	140,600	80,100	63,900	r 80,300	77,600	88,977
do. concentrates ..	2,206,700	2,187,000	2,942,300	3,437,900	4,212,900	4,438,377
Superphosphates ..	316,600	290,400	223,300	192,100	280,300	372,226
Yugoslavia—						
Superphosphates ..	59,161	—	87,571	210,771	348,287	282,157
Algeria—						
Phosphate-rock ..	400,558	320,556	—	56,115	12,578	n.a.
Egypt—						
Phosphate-rock ..	177,238	413,556	322,561	367,597	365,000	n.a.
Morocco—						
Phosphate-rock ..	7,999,454	8,386,884	9,916,687	9,397,397	9,057,177	9,195,992
Hyperphosphates ..	3,723	5,040	4,309	1,237	3,573	7,559
Superphosphates ..	1	6,102	32,359	261	136,855	184,133
Senegal—						
Phosphate-rock ..	344,847	340,788	623,199	755,021	704,132	697,518
Aluminium phosphates	84,671	48,604	86,845	98,322	94,135	74,436
Phosphate fertilizers ..	32,292	13,364	22,687	3,977	21,468	17,287
South Africa—						
Phosphate rock ..	n.a.	n.a.	11,266	12,400	458	—
Super-phosphates ..	1,746	3,731	5,274	5,523	2,116	2,124
Other phosphatic fertilizers ..	n.a.	n.a.				
South West Africa—						
Phosphatic guano ..	237	n.a.	—	909	1,124	n.a.
Togo—						
Phosphate-rock ..	181,806	434,462	788,808	799,790	953,433	1,003,876
Tunisia—						
Phosphate-rock ..	1,804,707	1,934,528	2,179,736	2,225,031	2,347,200	2,263,560
Hyperphosphates ..	35,780	72,448	109,052	113,924	69,000	13,739
Superphosphates ..	113,271	144,891	122,850	253,044	166,660	376,264
Mexico—						
Phosphate-rock ..	27,289	23,590	27,455	30,824	36,468	33,874
Netherlands Antilles—						
Phosphate-rock ..	129,474	126,254	117,666	113,075	145,140	101,679
United States—						
Phosphate-rock ..	4,242,057	4,624,912	5,652,573	r 6,673,237	8,263,666	9,194,137
Superphosphates—						
Single	115,928	601,887	172,215	528,161	78,832	67,463
Concentrated ..	442,260						535,728	570,558	564,276
Sodium phosphates ..	—	13,955	20,512	20,039	19,858	24,177
Ammonium	107,607	165,430	324,211	285,404	689,548	1,134,311
Other phosphatic fertilizers ..	5,512	4,792	19,381	35,179	31,921	31,875
Venezuela—						
Superphosphates ..	20,038	23,501	55,133	n.a.	n.a.	n.a.
French Polynesia (Makatea)—						
Phosphate-rock ..	321,574	316,173	368,208	325,000	196,953	n.a.
Israel—						
Phosphate-rock ..	64,385	145,288	178,124	303,230	416,807	413,365
Japan—						
Phosphate-rock ..	11,815	11,128	701	121	898	591
Superphosphates ..	64,898	33,716	159,789	164,375	15,899	13,147
Thermal phosphates ..	117,582	41,212	35,914	9,444	17,131	11,146
Ammonium phosphate	574	50	345	6,389	719	8,395
Ammonium sulphate phosphate ..	59,509	37,564	49,330	35,842	18,975	45,614
Other phosphatic fertilizers ..	5,546	8,892	7,954	17,126	3,602	3,403
Jordan—						
Phosphate-rock ..	352,685	351,497	617,170	595,098	743,109	86,773
Lebanon—						
Superphosphates ..	n.a.	13,362	12,874	10,173	14,159	16,808

IMPORTS OF PHOSPHATES, ETC.

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Phosphate-rock ..	1,399,288	1,413,829	1,485,010	1,667,262	1,638,486	1,586,966
Superphosphates ..	25,520	25,738	16,069	11,478	2,666	46,681
Basic slag ..	76,837	96,821	76,343	46,217	42,240	41,977
Ammonium phosphate ..	14,820	10,904	11,557	3,429	3,222	10,451
Ghana—						
Superphosphates ..	47	118	50	1,640	1	—
Other phosphatic fertilizers ..	1,595	1,039	192	2,477	1	6
Kenya—						
Superphosphates ..	10,390	12,079	12,125	11,400	18,976	14,509
Other phosphatic fertilizers ..	1,276	1,893	45	122	1,591	640
Mauritius—						
Phosphatic guano ..	7,494	8,928	7,295	11,460	5,780	9,545
Phosphatic fertilizers ..	7,016	7,910	7,093	5,689	1,378	2,941
Nigeria—						
Phosphate-rock ..	11	8,269	13,022	10,492	16,023	28,389
Superphosphates ..	3,199					
Other phosphatic fertilizers ..	8,628					
Rhodesia (a)—						
Phosphate-rock ..	66,504	84,816	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Superphosphates ..	20,203	27,491	5,735	2,379	<i>n.a.</i>	<i>n.a.</i>
Other phosphatic fertilizers ..	3,991	1,744	5,998	10,255	<i>n.a.</i>	<i>n.a.</i>
Sierra Leone—						
Superphosphates ..	1	374	6	50	556	<i>n.a.</i>
Other phosphatic fertilizers ..	10	566	200	675	1,449	<i>n.a.</i>
Tanzania—						
Superphosphates ..	570	630	845	1,129	906	1,168
Other phosphatic fertilizers ..	33	15	13	60	4	1
Uganda—						
Superphosphates ..	1,402	647	1,489	1,654	974	530
Other phosphatic fertilizers ..	310	2	2	15	2	401
Zambia—						
Phosphatic fertilizers ..	<i>n.a.</i>	<i>n.a.</i>	922	1,822	1,767	3,265
Canada—						
Phosphate-rock (b) ..	1,032,113	1,158,417	1,272,842	1,513,657	1,947,626	2,035,506
Superphosphates, single ..	<i>r</i> 98,043	<i>r</i> 74,945	<i>r</i> 100,527	<i>r</i> 80,603	63,113	31,688
do. concentrated ..	<i>r</i> 49,548	<i>r</i> 37,452	<i>r</i> 56,480	<i>r</i> 47,249	40,570	41,804
Basic slag ..	268	—	—	—	—	—
Other phosphatic fertilizers ..	19,232	33,051	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Antigua—						
Phosphatic fertilizers ..	52	—	1,051	203	14	—
Barbados—						
Phosphatic fertilizers ..	34	50	35	36	58	144
Grenada—						
Superphosphates ..	635	33	20	423	381	944
Other phosphatic fertilizers ..	90	368	46	705	910	766
Jamaica—						
Phosphatic fertilizers ..	1,568	2,075	3,546	3,313	2,327	13,724
St. Kitts—						
Phosphatic fertilizers ..	174	188	310	221	145	1,751
St. Lucia—						
Phosphatic fertilizers ..	1,280	7	150	175	58	—

(a) Figures for years 1962 and 1963 relate to Rhodesia and Nyasaland.

(b) Including calcium phosphates.

IMPORTS OF PHOSPHATES, ETC. (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
<i>(cont.)</i>						
St. Vincent—						
Superphosphates ..	—	—	285	210	78	—
Trinidad and Tobago—						
Superphosphates ..	1,029	299	130	<i>n.a.</i>	<i>n.a.</i>	490
Guyana—						
Superphosphates ..	555	<i>n.a.</i>	1,229	160	315	385
Basic slag ..	5	<i>n.a.</i>	5	3	—	—
Other phosphatic fertilizers ..	456	<i>n.a.</i>	1,400	3,146	2,340	2,321
Ceylon—						
Phosphate-rock ..	52,275	72,174	64,898	39,602	40,002	24,755
Superphosphates ..	1,452	1,193	2,128	1,115	582	2,291
Basic slag ..	26	25	20	56	—	—
Other phosphatic fertilizers ..	15	20	10	10,970	5,432	23,630
Cyprus—						
Superphosphates ..	32,403	33,305	31,261	31,853	25,738	19,913
Basic slag, etc. ..	198	27	—	975	10	—
Hong Kong—						
Phosphatic fertilizers ..	81	85	50	71	8	88
India (b)—						
Phosphate-rock ..	301,065	331,458	419,577	556,760	845,528	594,496
Other natural phosphates ..	63	4	—	8	—	4,843
Superphosphates ..	2,213	534	136	6,917	50	1,517
Ammonium phosphate ..	9,846	23,581	35,632	46,636	128,902	459,136
Malaysia (West)—						
Natural phosphates ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	88,652	111,066	100,193
Phosphatic fertilizers ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	7,174	6,471	6,014
Sabah—						
Natural phosphates ..	<i>n.a.</i>	904	238	1,203	579	555
Superphosphates ..	—	10	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Other phosphatic fertilizers ..	1,279	<i>n.a.</i>	1,251	742	185	296
Sarawak—						
Natural phosphates ..	797	1,511	5,560	5,886	2,610	5,644
Phosphatic fertilizers ..	5,018	6,999	849	947	1,945	107
Australia (a)—						
Phosphate-rock ..	1,950,134	1,694,916	1,989,413	2,517,313	2,795,056	3,271,814
Superphosphates ..	126	95	—	—	—	—
Calcium phosphate ..	652	606	666	1,073	1,311	1,444
Other phosphatic fertilizers ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	266	35
Fiji—						
Phosphatic fertilizers ..	<i>n.a.</i>	3,870	5,210	4,157	3,448	2,716
New Zealand—						
Phosphate-rock ..	580,620	<i>r(a)</i> 597,937	<i>(a)</i> 722,871	<i>(a)</i> 932,789	<i>(a)</i> 1,026,480	<i>(a)</i> 1,051,120
Phosphatic guano ..	5,324	<i>n.a.</i>	<i>(a)</i> 3,455	<i>(a)</i> —	<i>n.a.</i>	<i>n.a.</i>
Superphosphates ..	49	<i>(a)</i> 82	<i>(a)</i> 99	<i>(a)</i> 28	<i>(a)</i> 66	<i>(a)</i> 11,340
Basic slag ..	21,522	21,341	<i>(a)</i> 23,876	<i>(a)</i> 20,050	<i>(a)</i> 11,848	<i>(a)</i> 9,929
Other phosphates ..	4,849	7,697	<i>(a)</i> 1,723	<i>(a)</i> 2,959	<i>(a)</i> 2,928	<i>(a)</i> 2,791
Irish Republic—						
Phosphate-rock ..	221,806	226,935	235,691	239,813	255,149	351,901
Superphosphates ..	2,358	4,744	8,090	15,026	5,952	10,590
Basic slag ..	121,378	121,527	155,579	150,237	88,677	116,205
Di-calcium phosphate ..	<i>(c)</i>	<i>(c)</i>	365	1,155	2,279	1,615
Other phosphatic fertilizers ..	16,179	24,328	24,548	16,298	2,839	12

(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	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
Austria—						
Phosphate-rock.. ..	190,273	195,017	265,880	228,513	260,544	270,378
Superphosphates (b) ..	11,750	9,750	10,327	14,180	6,115	1,274
Basic slag	269,146	316,404	344,641	331,859	320,734	300,834
Belgium-Luxemburg						
E.U.—						
Phosphate-rock.. ..	865,992	993,935	1,160,803	1,265,999	1,180,569	1,446,254
Superphosphates	6,307	304	1,616	382	873	200
Basic slag	4	5	23	22	3	134
Bulgaria—						
Phosphate rock	220,900	r 299,700	505,300	497,800	691,011	n.a.
Czechoslovakia—						
Phosphatic fertilizers (a)	191,000	208,000	256,000	286,000	266,000	n.a.
Denmark—						
Phosphate-rock.. ..	281,522	307,792	279,362	337,285	301,167	276,423
Superphosphates	126,929	101,733	87,627	79,410	38,198	20,932
Di-calcium phosphates ..	25,981	26,214	33,785	33,199	34,346	34,562
Basic slag	9,365	8,370	9,118	9,324	4,087	2,857
Finland—						
Phosphate-rock.. ..	231,706	230,067	319,901	360,961	381,034	346,277
Superphosphates	62,335	16,187	35,533	134,142	1,573	295
Basic slag	10,947	10,366	9,873	15,207	11,170	13,173
Di-calcium phosphates ..	888	1,426	394	9,450	n.a.	3
France—						
Phosphate-rock.. ..	1,998,572	2,118,068	2,382,588	2,733,898	2,800,037	2,965,701
Aluminium phosphates ..	83,472	79,271	87,560	90,891	87,604	84,415
Other phosphates	1,717	2,000	12,620	—	5,195	10,553
Superphosphates	287,682	329,634	369,667	306,255	238,616	272,533
Calcined phosphates	19,123	16,957	20,009	24,251	25,004	35,737
Basic slag	871,444	873,203	775,525	725,218	671,942	732,778
Di-calcium phosphates ..	27,113	18,597	20,768	20,088	10,389	1,415
Germany (Federal)—						
Phosphate-rock, etc. ..	1,596,262	1,615,589	2,254,392	2,481,278	2,466,740	2,629,268
Superphosphates	34,935	38,160	22,680	22,256	16,917	26,868
Basic slag	436,911	406,447	416,930	520,726	576,801	527,400
Other phosphatic fertilizers	273	631	729	1,433	1,176	1,319
Germany (East) (a)—						
Phosphate rock	236,100	246,400	320,000	315,300	305,800	347,400
Other phosphatic fertilizers	25,136	44,303	92,787	86,733	74,178	56,308
Greece—						
Phosphate-rock.. ..	145,633	200,843	25,409	155,160	223,844	326,531
Basic slag	444	758	296	93	98	n.a.
Other phosphatic fertilizers	86,908	81,193	82,069	59,387	20,586	18,137
Hungary—						
Phosphate-rock.. ..	227,319	301,634	474,712	422,000	397,000	486,198
Iceland—						
Superphosphates	10,789	3,554	3,865	8,134	10,280	8,519
Italy—						
Phosphate-rock.. ..	1,548,818	1,455,265	1,689,441	1,628,954	1,847,210	1,870,354
Superphosphates	8	1,162	1,988	8,805	39,862	17,335
Basic slag	23,247	17,762	1,685	67,596	105,660	111,686
Netherlands—						
Phosphate-rock.. ..	555,807	664,484	797,667	771,066	695,094	835,448
Superphosphates	77,073	52,922	98,949	57,452	48,558	47,978
Basic slag	146,177	152,219	230,553	249,506	29,839	24,464
Di-calcium phosphates ..	185	9,490	2,863	2,965	336	99
Norway—						
Phosphate-rock.. ..	165,708	147,418	196,600	170,633	222,517	234,801
Basic slag	7,779	6,247	7,057	5,051	6,625	6,064

 (a) P_2O_5 content.

(b) Including other phosphatic fertilisers.

IMPORTS OF PHOSPHATES, ETC. (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Poland—						
Apatite concentrates ..	351,000	312,200	425,200	548,200	620,000	428,000
Phosphate rock ..	557,700	475,800	549,400	635,000	588,000	602,000
Portugal—						
Phosphate-rock ..	238,388	268,982	252,341	270,635	220,398	292,074
Basic slag ..	9,351	9,900	14,311	10,471	9,949	9,199
Roumania—						
Phosphate-rock (a) ..	101,200	147,900	93,000	171,500	204,000	n.a.
Spain—						
Phosphate-rock ..	1,010,041	985,844	1,084,069	1,069,482	1,134,671	1,135,684
Superphosphates, etc. ..	—	539	98	50	1,921	1,083
Basic slag ..	29,649	41,199	20,214	31,306	32,241	25,050
Di-calcium phosphates	219	—	—	—	3,528	6,499
Sweden—						
Phosphate-rock ..	396,710	378,970	420,019	480,742	418,128	503,748
Superphosphates ..	10	281	2,724	652	18,157	226
Di-calcium phosphates	5,586	3,941	3,638	2,771	2,448	3,002
Switzerland—						
Phosphate-rock ..	30,641	34,021	35,993	36,717	28,895	27,063
Superphosphates, etc. ..	12,600	12,304	14,471	12,503	14,593	16,172
Basic slag ..	176,664	180,799	189,590	191,258	191,253	197,363
Di-calcium phosphates	2,665	3,677	5,442	8,852	10,975	12,099
Yugoslavia—						
Phosphate-rock ..	319,154	532,056	634,749	464,391	677,410	683,283
Superphosphates ..	73,877	215,240	16,339	n.a.	3	5,999
Basic slag ..	7,598	76,279	116,044	6,939	11,122	61,931
Angola—						
Superphosphates ..	1,565	982	2,689	2,540	3,262	3,937
Cameroun—						
Phosphatic fertilizers ..	405	265	734	563	n.a.	n.a.
Canary Islands—						
Phosphate-rock ..	14,293	16,500	14,587	19,025	17,782	18,665
Egypt—						
Superphosphates ..	73,921	n.a.	n.a.	n.a.	n.a.	n.a.
Equatorial African Community—						
Phosphatic fertilizers ..	59	n.a.	106	496	1,286	770
Malagasy Republic—						
Phosphatic fertilizers ..	401	262	613	1,017	503	656
Morocco—						
Superphosphates ..	438	541	166	974	n.a.	n.a.
Di-calcium phosphates	1,756	487	10	13	9	18
Reunion—						
Phosphate fertilizers ..	790	873	882	642	282	279
South Africa—						
Phosphate-rock ..	443,691	313,926	297,976	172,356	154,797	86,188
Superphosphates ..	6,321	13,069	(b)	(b)	(b)	(b)
Basic slag ..	44,053	39,446	26,488	27,661	20,625	17,553
Other phosphatic fertilizers ..	n.a.	n.a.	51,235	4,772	63,665	77,851
Sudan—						
Superphosphates ..	1,144	62	69	48	153	325
Tunisia—						
Phosphatic fertilizers ..	—	346	70	—	—	—
Costa Rica—						
Phosphatic fertilizers ..	8,675	387	2,555	57,146	15,267	14,905
Cuba—						
Superphosphates ..	163,368	71,751	167,067	n.a.	n.a.	n.a.
Dominican Republic—						
Superphosphates ..	5,321	n.a.	n.a.	n.a.	n.a.	n.a.

 (a) P_2O_5 content.

(b) Included with "other phosphatic fertilizers".

IMPORTS OF PHOSPHATES, ETC. (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES (cont.)						
French West Indies—						
Guadeloupe—						
Phosphatic fertilizers ..	184	345	98	1,198	469	670
Martinique—						
Phosphatic fertilizers ..	2,470	1,071	1,616	679	1,020	1,441
Guatemala—						
Phosphatic fertilizers ..	5,395	3,123	5,431	2,843	82	799
Honduras—						
Phosphatic fertilizers ..	579	32	3,042	2,864	2,045	892
Mexico—						
Phosphate-rock	126,186	196,109	200,445	224,586	285,195	323,155
Superphosphates	6,513	5,961	744	—	3	13,960
Ammonium phosphates	16,720	3,527	7,339	3,404	—	5
Nicaragua—						
Phosphatic fertilizers ..	714	1,937	4,547	13,900	14,670	23,652
Panama Republic—						
Phosphatic fertilizers ..	1,552	1,209	1,000	1,652	n.a.	n.a.
Salvador—						
Phosphatic fertilizers ..	1,131	1,338	3,449	15,472	23,705	16,615
United States—						
Phosphate-rock	133,628	160,708	155,819	132,263	158,721	123,796
Superphosphates—						
Single	13,860	64,144	70,512	51,698	n.a.	n.a.
Concentrated	44,352					
Ammoniated	954	1,552	n.a.	n.a.	n.a.	n.a.
Basic slag	2,012	527	—	146	n.a.	n.a.
Di-calcium phosphates	9,193	4,326	6,291	2,683	n.a.	n.a.
Ammonium phosphates	144,722	115,812	85,845	155,795	159,634	189,081
Brazil—						
Phosphate-rock	94,365	218,387	178,892	152,274	110,427	221,882
Superphosphates—						
Single	14,012	9,626	5,420	5,685	6,360	18,221
Concentrated	43,502	70,282	48,488	48,945	51,511	81,792
Calcined phosphates	2,046	4,399	4,353	2,092	1,985	1,158
Di-calcium phosphate ..	2,879	2,398	1,673	591	1,417	789
Basic slag	2,262	4,650	5,788	5,546	6,056	6,881
Chile—						
Superphosphates	58,788	77,864	r 68,781	93,439	n.a.	n.a.
Basic slag	15,529	33,695	r 5,845	8,813	n.a.	n.a.
Di-calcium phosphates	31,498	40,504	r 24,855	37,698	n.a.	n.a.
Other phosphatic fertilizers	31,184	32,769	r 33,496	37,747	n.a.	n.a.
Colombia—						
Phosphate-rock	8,191	16,829	26,370	6,449	17,083	19,472
Superphosphates	13,983	28,963	27,464	26,635	24,231	16,282
Di-calcium phosphates	9,623	7,364	2,477	451	12	20
Peru—						
Phosphate-rock	13,119	11,606	14,114	2,746	—	6,045
Phosphatic fertilizers ..	3,472	206	1,242	20,237	221	9,359
Uruguay—						
Phosphate-rock	37,152	5,905	41,692	44,703	82,563	73,098
Venezuela—						
Calcium phosphates and superphosphates ..	4,664	6,847	1,512	1,677	6,498	12,676
Burma—						
Phosphatic fertilizers ..	6,780	—	16,500	24,540	n.a.	n.a.
Formosa—						
Calcium phosphate	(a)	539	786	1,108	45,290	n.a.
Other phosphatic fertilizers	6,060	17,553	9,940	n.a.		

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

IMPORTS OF PHOSPHATES, ETC. (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES (cont.)						
Iran (a)—						
Phosphatic fertilizers ..	17,020	17,038	13,878	18,897	37,302	50,480
Iraq—						
Phosphatic fertilizers ..	1,073	1,608	2,975	n.a.	n.a.	n.a.
Japan—						
Phosphate-rock ..	1,864,237	2,030,526	2,279,150	2,380,063	2,518,555	2,589,960
Other phosphatic fertilizers ..	9	50	10	3,254	4,378	9,562
Calcium phosphates ..	1,312	2,825	4,445	5,377	6,851	2,765
Ammonium phosphate	n.a.	n.a.	n.a.	n.a.	1,852	99
Jordan—						
Phosphatic fertilizers ..	2,219	1,709	2,523	2,362	5,025	4,192
Korea (South)—						
Superphosphates ..	55,479	27	1,981	n.a.	n.a.	n.a.
Calcium phosphates ..	n.a.	27	10,122	78,445	18,414	90,211
Other phosphatic fertilizers ..	n.a.	246,755	239,920	200,994	315,277	217,330
Lebanon—						
Phosphatic fertilizers ..	12,484	20,296	21,714	43,862	1,942	2,420
Philippine Republic—						
Phosphate-rock ..	12,292	11,985	18,457	56,884	n.a.	n.a.
Superphosphates ..	1,493	886	1,194	1,237	n.a.	n.a.
Ammonium phosphate	19,708	6,882	15,966	27,111	n.a.	n.a.
Other phosphatic fertilizers ..	52,430	4,682	24,087	18,777	n.a.	n.a.
Syria—						
Phosphatic fertilizers ..	13,852	23,988	14,534	12,240	19,179	13,211
Thailand—						
Superphosphates ..	2,783	3,030	2,013	1,987	2,751	2,638
Phosphatic fertilizers ..	18,209	26,996	36,755	21,732	45,810	84,565
Turkey—						
Phosphate-rock ..	32,823	114,412	91,056	98,941	145,750	93,602
Superphosphates ..	37,996	19,202	29,010	111,647	130,553	155,477
Ammonium phosphate	15	31	26	53	3,045	33
Other phosphatic fertilizers ..	49	n.a.	n.a.	6,348	5,517	51,872
Vietnam (South)—						
Calcium phosphates ..	46,000	77,900	45,925	n.a.	n.a.	n.a.
Other phosphatic fertilizers ..	8,078	23,629	n.a.	n.a.	n.a.	n.a.

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

PLATINUM
PRODUCTION OF PLATINUM METALS

Troy ounces

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Canada—						
Recovered from Ontario nickel-copper ores (c)—						
Platinum	470,792	357,653	376,238	463,127	396,059	403,270
Other platinum metals						
Australia—						
New South Wales—						
Concentrates (Pt content)	2	4	—	—	13	—
New Guinea—						
Platinum	4	4	1	4	—	—
OTHER COUNTRIES						
U.S.S.R.—						
Crude platinum (d) ..	800,000	1,300,000	1,500,000	1,700,000	1,800,000	1,900,000
Ethiopia—						
Crude platinum ..	180	(d) 180	(d) 180	353	(d) 318	n.a.
South Africa—						
Crude and matte (Pt metals content) (d)	300,000	300,000	600,000	750,000	780,000	825,000
Osmiridium (crude) (b)	5,603	5,185	4,135	3,820	3,400	(d) 3,400
United States (a)—						
New platinum metals recovered by refineries from crude platinum and gold and copper ores of domestic origin						
Platinum	14,244	20,818	15,608	11,376	18,103	6,736
Palladium	14,141	28,099	22,863	22,500	29,907	8,142
Iridium	739	1,381	2,423	1,414	1,513	754
Osmium	95	189	366	315	219	151
Rhodium	439	1,073	2,757	2,156	2,361	57
Ruthenium	146	398	286	400	558	11
Colombia (e)—						
Crude platinum ..	14,100	22,983	20,647	11,141	—	12,411
Japan—						
Platinum	1,872	1,714	2,199	2,466	2,733	3,072
Palladium	1,372	1,326	1,875	2,952	5,495	3,327
Philippine Republic—						
Platinum	172	—	—	—	—	n.a.
Palladium	141	—	—	—	—	n.a.
WORLD'S TOTAL (f)	1,600,000	2,000,000	2,500,000	3,000,000	3,000,000	3,000,000

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

	1962	1963	1964	1965	1966	1967
Platinum	71,817	54,084	66,043	53,562	49,563	126,377
Palladium	56,273	59,993	49,879	50,025	50,009	215,162
Iridium	767	440	764	960	402	7,748
Osmium	99	273	928	763	728	2,377
Rhodium	2,570	1,990	2,338	2,590	2,434	11,505
Ruthenium	576	319	195	625	185	2,630

(b) Sales.

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

(d) United States Bureau of Mines' estimate.

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

(f) Estimated.

EXPORTS OF PLATINUM*

Troy ounces

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Platinum—						
Ingots, grain and powder ..	253,320	509,580	429,125	489,054	472,592	564,448
Other kinds (a) ..	58,018	76,307	79,084	88,777	111,286	115,304
Other platinum metals and alloys ..	259,998	279,899	273,418	323,918	378,853	422,785
Canada—						
Concentrates, etc. (b) ..	542,985	506,782	404,891	r 497,572	434,021	457,098
Platinum metals (b) ..	28,262	42,845	3,901	53,450	7,604	18,757
Scrap ..	n.a.	n.a.	n.a.	n.a.	32,406	26,397
Australia (c)—						
Platinum and platinum group metals ..	101	417	548	423	1,538	(a) 56,181
OTHER COUNTRIES						
Austria—						
Unwrought platinum and platinum metals	579	354	514	804	1,382	4,051
Denmark—						
Rods, sheets, wire, scrap, etc. ..	—	—	—	482	32	836
France—						
Unwrought platinum and scrap (a) ..	14,277	28,270	15,846	17,306	26,492	36,041
Palladium (incl. scrap)(a)	8,809	17,972	24,081	30,157	37,745	7,073
Drawn or rolled platinum ..	17,573	9,646	15,378	20,596	20,930	18,680
Germany (Federal)—						
Platinum metals (a) ..	123,041	121,147	174,061	332,242	364,686	270,291
Italy—						
Unwrought platinum ..	11,831	22,216	24,242	19,869	37,102	32,054
Netherlands—						
Unwrought platinum and platinum metals ..	8,359	22,120	8,552	20,706	7,877	17,811
Drawn or rolled ..	33,083	25,367	25,335	22,892	19,323	6,623
Norway—						
Platinum (incl. scrap) ..	15,786	10,610	18,551	18,004	14,564	19,901
Switzerland—						
Unwrought platinum ..	7,105	6,720	40,285	35,752	38,195	42,182

*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 residues, exported for treatment. Of the refined and semi-processed platinum metals subsequently imported (see page 310), the following quantities were re-exported from Canada without change or alteration (troy ounces):
1966—199,152; 1967—164,033.

(c) Years ended June 30 of that stated.

EXPORTS OF PLATINUM (cont.)

Troy ounces

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
U.S.S.R.	(a)	(a)	(a)	(a)	(a)	(a)
Yugoslavia—						
Palladium	n.a.	n.a.	n.a.	4,887	15,465	7,620
South Africa—						
Crude platinum metals						
Osmiridium	} (£6,639,594)	} (£4,885,269)	n.a.	n.a.	n.a.	n.a.
United States—						
Ores, etc. (<i>Pt content</i>) . .	} 49,651	} 51,236	} 125,139	} 72,925	} 102,031	} 211,476
Ingots, sheets, wire, etc.						
Palladium, rhodium, etc. and alloys						
Colombia—						
Platinum	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):

	1962	1963	1964	1965	1966	1967
United Kingdom	13,889	39,402	28,332	68,658	52,777	52,437
France	87,808	56,824	67,034	17,755	20,364	15,462
Germany (Federal)	141,017	163,916	152,471	288,300	291,736	196,859
Netherlands	27,264	35,655	26,267	13,214	11,478	6,237
United States	113,989	230,855	145,519	504,812	389,482	129,915
Japan	127,171	92,933	167,339	299,323	382,003	417,311

IMPORTS OF PLATINUM*

Troy ounces

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ores and concentrates	(£14,532,560)	(£12,506,237)	(£17,176,633)	(£22,280,604)	(£24,146,817)	(£38,283,000)
Platinum and platinum group metals	99,373	78,474	100,739	134,697	123,789	127,795
Canada—						
Platinum and platinum group metals (c) ..	r n.a.	r n.a.	r 221,557	r 233,603	197,853	212,889
Nigeria—						
Platinum and platinum group metals ..	—	7,712	2,356	9,976	37,209	22,348
Sierra Leone—						
Platinum and platinum group metals	5	908	n.a.	58	n.a.	n.a.
Hong Kong—						
Platinum and platinum group metals	10,632	15,427	18,007	19,140	25,866	48,318
India (a)—						
Platinum	2,117	2,336	2,929	2,393	1,146	1,589
Malaysia (West)—						
Unwrought platinum ..	n.a.	n.a.	n.a.	102	62	233
Sarawak—						
Platinum	n.a.	n.a.	1,197	584	n.a.	n.a.
Singapore—						
Unwrought platinum ..	219	6,204	145	2,540	7,673	4,625
Australia (b)—						
Platinum bars, rods, sheets, etc.	362	138	410	802	} (d)(e) 6,015	(d)(e) 7,040
Bars, rods, sheets, etc. of other platinum metals	22	5	83	405		
Platinum metal powder	1,071	2,914	3,850	2,585	(d)(e) 701	(d)(e) 1,021
Wire	1,546	720	1,636	1,592	(d)(e) 11,123	(d)(e) 1,307
New Zealand—						
Platinum and platinum group metals	2,763	(b) 2,557	(b) 1,980	(b) 1,894	(b) 8,737	(b) 1,353
OTHER COUNTRIES						
Austria—						
Unwrought platinum and platinum metals	997	5,626	1,447	1,093	2,476	4,083
Denmark—						
Rods, sheets, wire and scrap	1,800	1,865	2,379	6,400	7,073	7,871
Finland—						
Unwrought platinum etc.	21,380	4,003	n.a.	4,662	5,276	—
France—						
Unwrought platinum, alloys and scrap ..	101,198	107,607	83,076	90,725	78,176	81,856
Unwrought palladium, alloys and scrap ..	52,084	61,729	66,648	64,129	66,884	55,589
Drawn or rolled platinum	10,352	2,266	4,921	9,679	15,938	16,879
Germany (Federal)—						
Platinum metals and alloys	215,803	325,349	358,687	507,093	540,872	491,135
Italy—						
Unwrought platinum ..	33,790	33,019	43,082	63,819	37,134	46,040
Drawn or rolled ..	11,060	7,652	5,916	4,630	9,484	9,806
Other platinum metals	33,983	22,698	21,284	5,048	23,663	25,624

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

(a) Years ended March 31 following that stated.

(b) Years ended June 30 of that stated.

(c) Imports of refined and semi-processed platinum metals derived from Canadian concentrates and residues; mostly re-exported (see page 308).

(d) Including alloys.

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

IMPORTS OF PLATINUM (cont.)

Troy ounces

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES (cont.)						
Netherlands—						
Unwrought platinum and platinum metals ..	48,194	65,427	42,953	49,172	33,694	32,794
Drawn or rolled ..	12,732	12,539	22,827	32,548	31,186	27,489
Norway—						
Unwrought platinum ..	1,640	1,350	547	739	1,222	1,125
Drawn or rolled ..	1,244	1,377	932	2,508	1,800	1,543
Portugal—						
Sheets, wire, etc. ..	130	22	100	4,611	1,022	16,306
Spain—						
Bars, sheets, wire, etc. ..	4,083	32	1,134	n.a.	n.a.	n.a.
Switzerland—						
Unwrought platinum ..	32,569	42,117	49,866	28,003	37,809	65,293
Yugoslavia—						
Unwrought platinum ..	15,754	19,162	13,343	13,310	21,863	19,355
South Africa—						
Platinum	2,403	1,687	1,533	4,118	3,663	3,651
Mexico—						
Platinum	149	17	133	n.a.	64	249
Palladium	3,679	3,428	4,968	n.a.	5,222	5,621
United States—						
Ore (a)	—	—	n.a.	n.a.	63,622	102,121
Grains and nuggets (a) ..	23,366	50,691	35,916	58,297	86,700	41,798
Sponge and scrap (a) (b)	n.a.	n.a.	n.a.	(c) 210,560	192,486	257,703
Ingots, bars, sheets (a) (b)	93,202	n.a.	114,174	132,139	78,862	64,344
Iridium	9,001	13,059	6,571	8,060	12,319	11,401
Osmium and osmiridium ..	1,086	2,091	3,947	4,257		
Palladium	431,872	503,843	445,913	507,745	855,522	613,669
Rhodium and ruthenium	38,622	40,417	66,089	47,693	72,507	100,433
Brazil—						
Unwrought platinum ..	7,268	—	—	1,061	3	—
Palladium	1,125	—	—	—	—	—
Colombia—						
Unwrought platinum ..	932	64	129	64	64	n.a.
Uruguay—						
Platinum metals ..	n.a.	n.a.	n.a.	192	n.a.	n.a.
Venezuela—						
Unwrought platinum ..	13,310	36,523	12,603	3,697	3,054	86,839
Japan—						
Platinum	133,843	221,844	165,718	180,636	185,018	234,324
Palladium	87,494	147,070	168,287	260,524	379,787	354,701
Rhodium	1,711	2,950	4,127	4,325	6,123	9,177
Iridium, etc.	2,666	2,267	1,816	1,852	2,359	2,226
Lebanon—						
Unwrought platinum ..	4,559	2,875	2,780	5,153	3,311	4,060
Turkey—						
Sheets	n.a.	3,440	96	32	772	8,713

(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:

Sponge and scrap ..	1962	1963	1964	1965	1966	1967
Platinum metal ..	6,185	7,647	(d) 5,127	(d) 4	(d) 851	—
	210,220	382,596	281,922	317,000	272,482	322,764

(c) Sponge only.

(d) Scrap only

POTASH MINERALS
PRODUCTION OF POTASH

Long tons

Producing Country and Description	1962	1963	1964	1965	1966	1967	K ₂ O Content of Equivalent					
							1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES												
Canada—Potash salts	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	a 130,000	559,696	766,385	1,331,519	1,776,833	2,301,964
OTHER COUNTRIES												
France (b)—Sylvinite, 12–22% K ₂ O Fertilizer salts 30–40% K ₂ O..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	{ 47,151	34,517	36,553	53,741	26,586	7,294
Chloride 50% K ₂ O and over	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	{ 138,112	116,234	126,631	137,415	106,358	118,257
Germany—Federal Republic—Kainite, sylvinitic, etc.	18,121,975	18,244,498	20,263,188	21,851,925	21,143,258	19,536,819	2,227,977	2,247,152	2,512,801	2,695,101	2,603,213	2,421,328
Eastern—Potash salts	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	1,724,000	1,816,000	1,828,000	1,896,000	1,974,000	2,171,000
Italy—Crude potash salts ..	1,022,188	1,243,718	1,446,846	1,695,806	1,833,000	1,784,643	134,900	r 169,000	190,000	220,000	240,000	a 246,000

(a) United States Bureau of Mines' estimate.

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

PRODUCTION OF POTASH (cont.)

Producing Country and Description	K ₂ O Content or Equivalent							1967	Long tons			
	1962	1963	1964	1965	1966	1967	1968		1969	1970	1971	
OTHER COUNTRIES (cont.)												
Spain— Carnallite, sylvinite, etc.	1,553,577	1,819,025	2,117,145	2,601,140	3,045,422	n.a.	260,386	295,683	339,209	r 423,788	490,000	475,000
U.S.S.R. (a)— Potash salts	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	1,900,000	2,020,000	2,165,000	2,310,000	2,500,000	2,700,000
United States— Potash salts (b)	3,721,000	4,349,000	4,423,000	4,822,000	5,090,000	5,044,000	2,190,108	2,557,176	2,586,600	2,804,000	2,964,000	2,946,000
Chile— Nitrate	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	17,447	(a)18,300	13,300	(a)14,000	(a)14,500	(a)14,300
Israel— Chloride	d 148,290	d 185,000	d 314,700	473,000	500,000	484,000	89,500	110,000	190,000	288,000	c 305,000	295,000
World's TOTAL (c)	..	..	..	..	..	..	10,400,000	11,500,000	12,400,000	13,800,000	14,600,000	15,400,000

(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	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Nitrate	35	12	104	143	156	449
Sulphate						
Other compounds	4,473	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
India (a)—						
Nitrate	8	5	3	3	6	—
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Fertilizer salts	595	344	25	317	2,337	12
Carbonate	2,496	2,352	2,560	2,284	1,624	1,872
Chloride	770,048	768,648	701,649	594,241	(b) 326,962	(b) 391,076
Chlorates	1	6	10	—	<i>n.a.</i>	<i>n.a.</i>
Nitrate	1	1	1	1	—	—
Sulphate	250,789	286,197	262,756	314,030	(b) 142,018	(b) 155,992
Finland—						
Chlorate	39	—	—	—	—	—
France—						
Sylvinite, etc.	137,666	72,043	90,037	90,698	69,509	68,652
Carbonate	13,154	16,165	20,638	19,461	21,775	28,620
Caustic potash	11,111	10,459	11,774	9,926	91,161	10,244
Chlorate	1,055	13,109	1,268	1,351	1,442	1,385
Chloride	1,028,710	1,082,522	1,187,890	1,008,291	973,842	1,147,427
Sulphate	13,291	11,327	5,795	1,362	898	1,138
Nitrate	2,322	2,762	2,076	1,935	1,939	2,773
Germany (Federal)—						
Fertilizer salts	1,343,640	1,507,028	1,542,227	1,970,886	1,572,209	1,326,785
Carbonate	6,984	7,967	10,039	10,184	13,026	12,570
Caustic potash	<i>n.a.</i>	11,690	12,108	12,173	11,304	10,585
Chlorate	597	542	545	497	439	364
Nitrate	12,254	12,746	14,305	13,949	14,033	16,688
Germany (East)—						
Fertilizer salts						
(K ₂ O content)	1,129,000	1,143,000	1,199,000	1,271,000	1,352,000	1,516,000
Carbonate	9,614	9,910	9,508	10,095	9,245	8,511
Caustic potash	5,640	6,422	7,156	8,326	7,108	7,505
Italy—						
Nitrate	925	910	80	999	2,476	1,504
Caustic potash	3,455	4,162	2,631	1,969	2,390	41
Sulphate	55,382	75,391	85,029	111,622	117,966	123,678
Netherlands—						
Carbonate	93	1,248	844	401	1,172	1,642
Caustic potash	10	32	37	44	32	—
Chloride	738	786	461	766	428	833
Nitrate	134	70	104	421	639	302
Sulphate	373	518	497	767	411	231
Poland—						
Caustic potash	<i>n.a.</i>	1,388	899	820	961	705
Chlorate	<i>n.a.</i>	645	900	785	1,080	680
Portugal—						
Caustic potash	9	7	336	5	46	91
Chloride	94	60	253	249	272	422
Sulphate	43	89	255	1,192	643	641
Spain—						
Chloride	225,113	253,374	305,150	388,981	438,121	502,491
Nitrate	707	1,371	990	951	709	883
Sulphate	19,054	11,962	12,012	7,352	7,332	15,856

(a) Years ended March 31 following that stated.

 (b) K₂O content.

EXPORTS OF POTASH SALTS (cont.)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Sweden—						
Carbonate	1	—	—	—	—	—
Caustic potash	2,278	2,462	2,770	2,794	2,651	3,068
U.S.S.R.—						
Fertilizer salts	863,800	976,500	742,300	812,500	1,072,000	1,343,737
United States—						
Chloride	717,856	593,113	821,407	815,661	761,692	899,044
Other fertilizer salts	39,241	38,171	95,062	123,897	129,129	100,199
Caustic potash	3,246	3,627	5,233	5,040	3,442	5,289
Other compounds	8,223	<i>n.a.</i>	14,017	36,289	<i>n.a.</i>	<i>n.a.</i>
Chile—						
Nitrate	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	96,221	<i>n.a.</i>	<i>n.a.</i>
Israel—						
Fertilizer salts	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	(a) 6,542	(b) 654	2,041
Japan—						
Chlorate	873	1,365	971	1,070	939	739
Chloride	3,520	5,665	10,005	11,276	3,121	3,945
Sulphate	105	267	297	5,973	2,101	7,196
Caustic potash	16	23	52	397	297	1,141
Other fertilizer salts	413	15	10	63	—	868

(a) Potassium sulphate only.

(b) Potassium carbonate only.

IMPORTS OF POTASH SALTS

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Fertilizer salts	52,165	28,855	37,025	37,645	35,584	42,438
Carbonate	4,719	5,836	8,374	7,921	8,951	10,392
Caustic potash and lyes	1,832	<i>n.a.</i>	2,327	2,027	2,482	2,122
Chlorate	1,077	(<i>a</i>)	(<i>a</i>)	(<i>a</i>)	(<i>a</i>)	(<i>a</i>)
Chloride	666,464	680,098	660,597	677,779	630,370	716,653
Nitrate	3,434	2,793	3,029	3,026	4,004	3,965
Sulphate	23,995	27,742	33,636	32,952	37,704	35,658
Other compounds	6,557	13,975	6,983	2,912	6,640	2,523
Ghana—						
Fertilizer salts	455	1,075	1,301	263	279	4
Kenya—						
Fertilizer salts	28	376	155	276	828	759
Mauritius—						
Fertilizer salts	11,143	13,304	12,988	7,912	8,490	9,468
Nigeria—						
Fertilizer salts	1,341	655	835	3,222	1,728	2,185
Rhodesia (<i>b</i>)—						
Fertilizer salts	26,263	31,005	37,342	29,013	<i>n.a.</i>	<i>n.a.</i>
Compounds	680	430	220	177	<i>n.a.</i>	<i>n.a.</i>
Sierra Leone—						
Fertilizer compounds ..	76	374	5	—	25	<i>n.a.</i>
Tanzania—						
Fertilizer salts	667	1,659	898	1,344	1,336	1,441
Uganda—						
Fertilizer salts	2,835	1,981	1,685	367	623	1,455
Canada—						
Caustic potash	1,482	1,936	1,629	1,620	1,472	1,504
Carbonate	829	475	588	504	704	619
Crude chloride	132,119	66,137	59,855	48,047	25,130	24,482
Nitrate	815	760	789	1,308	1,443	1,517
Crude sulphate	21,412	16,888	17,463	16,601	22,639	27,030
Other potassic fertilizers	5,922	4,698	5,538	8,081	10,545	19,145
Antigua—						
Fertilizer salts	2,928	<i>n.a.</i>	—	—	<i>n.a.</i>	<i>n.a.</i>
Barbados—						
Fertilizer salts	3,372	4,204	7,763	3,122	4,475	4,164
Grenada—						
Fertilizer salts	50	150	81	30	370	43
Jamaica—						
Fertilizer salts	2,121	6,430	10,151	6,639	8,032	10,243
St. Kitts—						
Potassic fertilizers ..	855	1,116	985	1,001	1,010	2,546
St. Lucia—						
Potassic fertilizers ..	200	586	745	455	120	2,995
St. Vincent—						
Chloride	7	83	15	912	1,881	1,295
Trinidad and Tobago—						
Chloride and sulphate..	2,755	2,966	2,668	3,175	1,491	1,560
Guyana—						
Fertilizer salts	3,862	<i>n.a.</i>	2,005	1,235	2,022	2,771
Ceylon—						
Kainite and sylvinite ..	100	120	382	—	—	—
Chloride	38,516	60,569	47,879	57,050	53,896	50,550
Nitrate of potash refuse	108	100	22	—	20	—
Sulphate	120	195	2,135	428	2,270	295
Cyprus—						
Fertilizer salts	468	385	273	494	370	292
Hong Kong—						
Nitrate	684	626	423	404	341	634
Chlorate	99	72	66	88	170	80
Other fertilizer salts ..	47	27	18	16	57	27

 (*a*) Included, if any, with "Other compounds".

 (*b*) Figures for years 1962 and 1963 relate to Rhodesia and Nyasaland.

 (*c*) Excess of re-exports.

IMPORTS OF POTASH SALTS (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
<i>(cont.)</i>						
India (a)—						
Carbonate	1,227	1,172	1,224	1,086	1,270	1,912
Caustic potash	2,480	3,304	3,649	2,910	2,557	2,869
Nitrate	19	2	2	—	5	—
Sulphate	3,218	4,242	10,538	6,379	23,629	13,277
Chlorate	—	74	—	11	172	—
Chloride	76,661	69,684	75,315	123,224	147,481	314,851
Malaysia (West)—						
Fertilizer salts	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	32,651	45,796	55,434
Pakistan—						
Chlorate	599	145	1,157	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Other compounds	<i>n.a.</i>	87	176	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sabah—						
Fertilizer salts	155	9	657	353	567	1,172
Sarawak—						
Fertilizer salts	552	443	898	1,434	1,065	1,450
Australia (c)—						
Carbonate	774	969	993	1,223	1,153	1,217
Caustic potash	898	969	1,099	1,426	1,148	1,340
Chloride	65,214	47,472	84,864	101,098	82,411	110,970
Nitrate	355	424	403	470	421	1,602
Sulphate	8,842	10,343	11,361	7,926	11,152	8,168
Other fertilizer salts	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	14,570	760
Other compounds	365	353	319	480	312	389
New Zealand—						
Chloride	96,945	100,460	(c) 96,862	(c) 143,223	(c) 172,249	(c) 152,637
Nitrate	116	(c) 128	(c) 166	(c) 184	(c) 185	(c) 517
Sulphate	2,687	3,671	(c) 3,673	(c) 4,503	(c) 4,046	(c) 2,996
Other fertilizer salts	7,873	1,080	(c) 27,091	(c) 3,060	(c) 1,063	(c) 336
Compounds other than fertilizer	241	(c) 165	(c) 178	(c) 144	(c) 227	(c) 147
Irish Republic—						
Fertilizer salts	3,322	4,986	4,548	244	241	250
Chloride	142,720	158,217	154,772	147,820	148,190	190,283
Other compounds	811	235	192	10,022	9,592	7,303
OTHER COUNTRIES						
Austria—						
Fertilizer salts	228,394	240,502	231,337	208,586	156,568	121,427
Caustic potash	385	435	418	378	415	444
Carbonate	821	966	1,050	816	962	895
Chloride	28,017	39,313	59,607	65,093	134,137	165,844
Nitrate	320	399	385	507	547	487
Sulphate	10,564	14,471	11,808	25,750	17,486	25,863
Belgium-Luxemburg						
E.U.—						
Fertilizer salts	190,310	65,290	78,293	85,284	(d) 13,506	(d) 13,302
Carbonate	997	899	974	1,263	1,521	1,179
Chlorates	298	482	522	470	409	401
Chloride	1,158,098	1,108,101	1,257,902	1,297,205	(d) 679,322	686,065
Nitrate	2,156	2,631	2,809	2,607	2,519	2,614
Sulphate (b)	20,837	22,944	18,545	26,725	(d) 7,259	(d) 8,368
Czechoslovakia—						
Fertilizer salts (K_2O content)	233,000	249,000	343,000	353,000	397,000	<i>n.a.</i>

(a) Years ended March 31 following that stated.

(b) Including patent potash.

(c) Years ended June 30 of that stated.

 (d) K_2O content.

IMPORTS OF POTASH SALTS (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Denmark—						
Carbonate	363	354	393	369	399	423
Caustic potash	1,019	960	1,106	997	1,064	1,094
Chlorate	76	106	110	108	117	106
Chloride	281,323	279,700	278,982	275,469	217,250	236,188
Nitrate	1,034	1,206	1,335	1,295	1,314	1,477
Sulphate	2,238	1,963	2,696	1,363	1,134	5,226
Finland—						
Fertilizer salts	127,210	128,797	133,249	204,223	171,881	—
Carbonate	513	522	427	474	780	447
Caustic potash	301	203	266	274	275	298
Nitrate	383	168	528	552	461	278
Sulphate	9,681	8,785	9,725	16,139	13,968	16,328
France—						
Chloride	1,467	—	69	4,658	18,866	35,214
Sulphate	40,936	47,942	55,622	60,392	34,315	51,167
Caustic potash	74	88	141	122	105	107
Patent potash	4,784	5,356	7,509	6,590	7,852	7,814
Germany (Federal)—						
Fertilizer salts	36,327	47,807	47,437	48,408	37,160	87,580
Carbonate	1,678	5,647	5,273	5,594	4,681	3,249
Caustic potash	718	813	2,526	3,959	9,192	5,708
Chlorate	1,074	959	589	596	535	491
Nitrate	1,069	1,188	2,202	3,019	4,577	4,235
Greece—						
Carbonate	1,086	1,497	1,071	1,052	3,102	1,800
Caustic potash	29	47	32	64	103	185
Nitrate	95	79	104	167	79	91
Sulphate	15,847	22,195	19,230	36,372	27,917	12,991
Hungary—						
Fertilizer salts	195,475	214,385	200,103	196,000	281,000	330,693
Iceland—						
Fertilizer salts	5,167	4,676	8,030	11,081	9,031	7,240
Carbonate	16	59	88	83	80	59
Caustic potash	53	66	71	59	26	30
Italy—						
Fertilizer salts	38,061	37,389	39,822	35,765	40,986	44,052
Carbonate	4,408	3,653	3,202	4,199	5,652	5,380
Caustic potash	1,411	1,059	707	577	322	329
Chloride	154,643	130,094	167,962	157,903	215,912	197,718
Nitrate	728	1,027	2,081	1,501	1,523	1,744
Sulphate	11,632	8,531	9,878	5,802	3,965	4,602
Netherlands—						
Kainite	22,271	25,236	40,753	40,058	<i>n.a.</i>	<i>n.a.</i>
Fertilizer salts						
(20% K ₂ O)	17,144	26,833	37,948	45,570	<i>n.a.</i>	<i>n.a.</i>
do. (40% K ₂ O)	120,810	132,461	159,654	161,684	<i>n.a.</i>	<i>n.a.</i>
Carbonate	6,306	7,081	6,576	7,019	8,205	8,927
Caustic potash	7,939	17,834	55,689	60,622	75,575	<i>n.a.</i>
Chloride	104,518	112,758	123,585	128,540	126,542	98,641
Nitrate	2,477	2,807	2,914	3,146	3,282	3,680
Sulphate	64,275	53,672	66,567	72,007	47,896	39,809
Patent potash	44,093	47,365	45,857	42,257	10,452	12,725
Norway—						
Fertilizer salts	307	516	295	352	226	258
Carbonate	329	308	336	332	300	308
Caustic potash	1,265	1,350	1,325	1,301	1,211	1,196
Chlorate	137	126	126	142	145	168
Chloride	81,004	100,407	111,246	116,061	144,809	174,593
Nitrate	215	178	164	240	234	343
Sulphate	4,435	9,178	10,068	6,240	10,177	448

IMPORTS OF POTASH SALTS (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Poland—						
Fertilizer salts	<i>n.a.</i>	735,694	(b) 970,500	(b) 1,253,000	(b) 1,519,000	b) 1,673,000
Carbonate	<i>n.a.</i>	1,713	2,030	5,342	3,199	2,945
Chloride	<i>n.a.</i>	14,271	(a)	(a)	(a)	(a)
Sulphate	<i>n.a.</i>	3,364	(a)	(a)	(a)	(a)
Portugal—						
Carbonate	144	109	170	84	104	264
Caustic potash	707	257	320	295	280	166
Chlorate	220	178	195	220	250	221
Chloride	13,890	21,398	21,975	30,767	22,723	27,460
Nitrate	291	296	286	430	457	394
Sulphate	1,132	1,329	2,177	2,581	15	2,335
Roumania—						
Fertilizer salts (c) ..	10,100	5,700	8,700	13,100	21,700	<i>n.a.</i>
Sweden—						
Fertilizer salts						
do. (40% K ₂ O)	} 736	826	838	503	449	467
do. (other)						
Carbonate	890	966	1,012	962	1,165	1,026
Caustic potash	260	246	299	758	245	238
Chloride	144,294	134,849	144,780	171,941	142,348	178,541
Nitrate	1,129	1,005	1,122	1,206	1,636	1,213
Sulphate	13,673	20,602	29,660	19,095	24,714	33,029
Switzerland—						
Fertilizer salts	101,437	104,111	108,571	116,106	101,781	96,671
Carbonate	2,114	1,933	2,520	2,505	2,053	2,319
Caustic potash	2,033	1,483	1,705	1,494	1,098	1,382
Nitrate	768	839	880	743	788	747
Sulphate	950	540	921	866	691	695
U.S.S.R.—						
Caustic potash	2,700	6,600	7,200	9,400	5,800	7,000
Yugoslavia—						
Fertilizer salts	107,166	289,531	370,326	152,888	299,705	165,745
Caustic potash	482	738	746	635	712	604
Chlorate	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	310	522	399
Chloride	13,367	19,080	17,000	16,922	<i>n.a.</i>	<i>n.a.</i>
Sulphate	4,178	2,928	2,011	4,408	5,034	6,940
Angola—						
Chloride	457	576	865	343	462	394
Sulphate	79	183	103	1,113	657	1,168
Cameroun—						
Fertilizer salts	2,010	782	4,049	7,013	<i>n.a.</i>	<i>n.a.</i>
Canary Islands—						
Fertilizer salts	—	—	—	1,154	1,229	1,259
Congo, Republic of—						
Fertilizer salts	<i>n.a.</i>	<i>n.a.</i>	2,395	705	6,685	146
Egypt—						
Carbonate	401	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Caustic potash	37	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Malagasy Republic—						
Fertilizer salts	382	694	518	2,255	2,173	3,040
Morocco—						
Chloride	4,214	4,672	4,264	4,193	6,284	13,448
Sulphate	6,877	8,001	6,639	10,127	8,230	14,408
Reunion—						
Fertilizer salts	755	1,092	2,416	1,622	875	692
South Africa—						
Fertilizer salts	80,305	116,573	121,361	77,627	68,089	115,308
Nitrate	849	1,273	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Caustic potash	376	307	421	452	592	506
Other compounds	1,248	1,163	<i>n.a.</i>	609	65,577	52,304

(a) Included with fertilizer salts.

 (c) K₂O content.

(b) Including chloride and sulphates.

IMPORTS OF POTASH SALTS (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES (cont.)						
Sudan—						
Caustic potash	<i>n.a.</i>	67	75	1	21	1
Tunisia—						
Fertilizer salts	4,426	5,063	6,411	1,722	3,491	3,424
Caustic potash	2,203	2,836	3,841	113	36	20
Costa Rica—						
Fertilizer salts	3,000	671	2,732	11,140	13,293	18,731
Cuba—						
Caustic potash	24	42	2,156	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Potassium chloride ..	45,891	38,299	55,816	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Potassium sulphate ..	11,939	11,712	8,273	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
French West Indies—						
Guadeloupe—						
Fertilizer salts	5,788	3,079	3,409	373	122	84
Martinique—						
Fertilizer salts	6,059	4,161	4,624	3,708	3,296	3,773
Guatemala—						
Fertilizer salts	68	73	824	25,945	860	901
Honduras—						
Fertilizer salts	1,820	1,711	5,896	6,166	7,726	9,710
Mexico—						
Carbonate	476	578	429	608	760	753
Chloride	20,790	19,986	26,961	30,977	40,131	37,408
Caustic potash	533	497	710	531	945	1,047
Sulphate	11	8	12	6,485	7,173	99
Nicaragua—						
Fertilizer salts	444	361	759	4,369	2,591	1,456
Panama Republic—						
Fertilizer salts	453	569	501	1,023	<i>n.a.</i>	<i>n.a.</i>
Salvador—						
Fertilizer salts	902	1,129	431	3,832	3,943	3,131
United States—						
Carbonate	103	228	425	55	1,279	4,490
Caustic potash	1,125	932	824	868	1,945	1,109
Chlorates	601	704	681	511	394	838
Chloride	407,650	788,153	1,067,604	1,589,537	2,131,447	2,420,179
Cyanide	858	774	942	988	1,040	915
Nitrate	5,646	7,110	5,294	4,377	24,617	13,799
Potassium-sodium nitrate mixtures	24,376	34,000	12,052	6,615	35,804	40,022
Sulphate	99,322	92,593	60,029	47,619	51,631	54,424
Argentina—						
Carbonate	235	388	649	419	493	589
Caustic potash	432	794	3,330	1,059	855	1,268
Chlorate	419	461	404	92	386	573
Nitrate	2	—	15	—	—	57
Sulphate	98	20	493	49	344	1,407
Brazil—						
Caustic potash	907	1,541	733	577	1,388	976
Nitrate	802	777	750	894	739	442
Nitrate of potash and soda	12,104	16,429	7,171	21,296	18,411	9,562
Chloride	104,082	144,184	108,759	152,903	141,816	218,005
Sulphate	6,266	4,232	4,218	5,996	8,238	5,006
Carbonate	541	891	455	446	1,532	1,417
Chlorate	—	10	—	—	—	9
Chile—						
Caustic potash	118	319	<i>r</i> 217	179	<i>n.a.</i>	<i>n.a.</i>
Chlorate	12	2,163	<i>r</i> 105	14,394	<i>n.a.</i>	<i>n.a.</i>
Chloride	1,472	1,890	<i>r</i> 978	1,153	<i>n.a.</i>	<i>n.a.</i>
Sulphate	6,538	5,064	<i>r</i> 9,077	1,829	<i>n.a.</i>	<i>n.a.</i>
Other fertilizer salts ..	734	2,920	<i>r</i> 779	1,675	<i>n.a.</i>	<i>n.a.</i>

IMPORTS OF POTASH SALTS (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Colombia—						
Chlorate	224	362	280	194	265	376
Chloride	15,691	29,593	38,432	30,968	30,307	41,816
Nitrate	208	401	196	87	498	208
Sulphate	1,771	4,444	4,361	5,076	17,465	4,332
Other fertilizer salts ..	—	—	—	4,515	196	93
Peru—						
Fertilizer salts	4,045	2,332	1,780	9,830	2,379	7,554
Nitrate	62	9	95	156	141	200
Carbonate	45	38	20	32	45	55
Chloride	110	35	96	60	2,036	70
Caustic potash	34	18	28	21	31	20
Uruguay—						
Nitrate	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	7	11	31
Caustic potash	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	49	153	114
Venezuela—						
Carbonate	61	23	47	46	65	50
Chlorate	164	116	239	247	260	258
Chloride	1,970	2,288	4,905	5,020	10,629	12,303
Nitrate	105	210	177	140	414	3,562
Sulphate	5,746	4,145	7,698	19,438	4,948	9,159
Burma—						
Fertilizer salts	414	257	351	—	<i>n.a.</i>	<i>n.a.</i>
Formosa—						
Fertilizer salts	49,878	46,730	92,990	88,844	31,259	<i>n.a.</i>
Iran (a)—						
Fertilizer salts	704	1,477	689	—	—	—
Iraq—						
Fertilizer salts	615	200	311	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Fertilizer salts	1,279	5,445	16,513	19,203	15,000	23,559
Chloride	691,305	952,460	976,434	961,080	1,068,942	1,116,138
Sulphate	38,398	99,268	65,531	86,093	82,021	57,328
Jordan—						
Fertilizer salts	766	1,488	4,016	6,149	6,926	1,814
Korea (South)—						
Chloride	8,084	41,993	44,883	55,516	20,612	<i>n.a.</i>
Other fertilizer salts ..	<i>n.a.</i>	53,261	9,879	39,856	310,379	28,448
Lebanon—						
Fertilizer salts	3,608	3,489	4,596	2,097	5,554	7,461
Philippine Republic—						
Nitrate	<i>n.a.</i>	28	218	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sulphate	2,686	4,592	1,105	2,982	<i>n.a.</i>	<i>n.a.</i>
Other fertilizer salts ..	40,156	9,021	37,656	48,226	<i>n.a.</i>	<i>n.a.</i>
Thailand—						
Chlorate	301	143	187	254	455	63
Chloride	72	53	984	127	40	498
Nitrate	743	933	855	866	1,198	976
Sulphate	886	937	787	2,037	250	984
Turkey—						
Carbonate	1,150	648	706	1,108	1,583	1,903
Caustic potash	363	246	355	467	429	1,742
Chlorates	221	170	156	434	442	150
Nitrate	74	296	211	267	587	322
Sulphate	1,547	570	541	6,112	3,122	2,155
Vietnam (South)—						
Fertilizer salts	7,597	11,600	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

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

PYRITES

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

Long tons

Producing Country	Estimated Sulphur Content						
	1962	1963	1964	1965	1966	1967	1967
COMMONWEALTH COUNTRIES							
United Kingdom ..	26,988	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Rhodesia ..	50,456	65,055	81,129	n.a.	n.a.	n.a.	n.a.
Canada (c) ..	461,882	425,391	314,152	341,229	291,923	335,170	166,066
Cyprus (a) ..	809,263	907,940	673,786	977,329	1,006,740	1,039,277	493,000
Australia (b) ..	148,566	194,059	220,078	204,011	245,998	251,757	110,009
TOTAL ..	1,497,155	1,600,000	1,300,000	1,600,000	1,600,000	1,700,000	
Irish Republic ..	37,229	—	—	—	—	n.a.	—
OTHER COUNTRIES							
Bulgaria (b) ..	140,056	127,880	144,530	150,501	144,170	167,300	70,000
Czechoslovakia (b) ..	395,000	342,000	355,000	369,000	346,000	370,000	143,000
Finland (b) ..	467,171	532,556	542,517	576,184	500,000	n.a.	n.a.
France (d) ..	299,153	248,325	188,319	132,239	86,685	84,032	34,661
Germany (Federal) ..	380,717	351,813	419,081	436,984	444,015	548,309	217,066
Germany (East) ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Greece ..	141,891	110,866	113,141	102,171	206,563	216,506	53,000
Italy ..	1,558,970	1,379,422	1,373,815	1,378,652	1,283,846	1,388,759	100,000
Norway ..	797,077	710,052	708,040	697,675	666,798	626,805	613,000
Poland ..	219,000	213,000	230,000	n.a.	n.a.	355,000	282,179
Portugal ..	631,164	592,559	597,808	606,657	549,043	519,683	n.a.
Roumania ..	300,000	328,000	403,000	n.a.	n.a.	n.a.	239,054

(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): 1962—9,018; 1963—9,314; 1964—8,033; 1965—9,664; 1966—9,182; 1967—8,635.

PRODUCTION OF PYRITES (cont.)

Producing Country	1962-1967						Estimated Sulphur Content					Long tons
	1962	1963	1964	1965	1966	1967	1962	1963	1964	1965	1966		1967
OTHER COUNTRIES (cont.)												
Spain ..	2,095,432	1,995,226	2,355,423	2,386,100	2,195,979	2,254,915	997,000	950,000	1,117,000	1,131,000	1,035,000	1,070,000
Sweden ..	371,683	396,260	445,239	434,363	426,747	474,900	188,967	202,161	227,524	221,475	220,000	244,600
U.S.S.R. (c) ..	2,953,000	3,149,000	3,149,000	3,250,000	3,250,000	3,450,000	1,565,000	1,673,000	1,673,000	1,720,000	1,720,000	1,820,000
Yugoslavia (a) ..	407,000	350,000	421,000	401,000	372,000	418,000	163,000	140,000	168,000	160,000	149,000	175,000
Algeria ..	42,000	37,154	59,994	55,978	40,729	33,836	19,000	17,000	28,000	26,000	19,000	15,000
Morocco ..	20,417	22,777	20,885	18,029	14,661	—	7,000	7,000	6,000	5,000	4,000	—
South Africa ..	434,030	411,943	425,647	421,532	473,587	e 854,943	174,000	152,000	164,000	158,000	179,000	400,000
United States (b) ..	915,890	824,800	847,493	874,957	872,414	860,909	379,046	343,566	353,831	353,645	355,512	355,033
China (c) ..	1,083,000	1,181,000	1,279,000	1,480,000	1,480,000	1,480,000	492,000	531,000	575,000	665,000	665,000	665,000
Formosa ..	44,772	46,021	45,592	38,640	41,342	38,085	16,800	17,300	17,100	14,500	15,500	14,300
Japan (d) ..	2,539,396	2,514,762	2,728,646	2,925,000	3,062,000	2,937,000	1,170,121	1,163,690	1,261,439	1,350,000	1,409,000	1,351,000
Korea (South) ..	—	37	59	168	21,834	3,571	—	17	27	n.a.	n.a.	n.a.
Korea (North) (c) ..	344,000	394,000	415,000	445,000	445,000	492,000	138,000	157,000	167,000	177,000	177,000	190,000
Philippine Republic ..	55,409	57,138	43,218	103,630	113,000	143,910	27,000	27,000	20,000	48,000	51,000	65,000
Turkey ..	105,389	95,549	111,307	130,072	170,789	177,167	51,000	46,000	51,000	60,000	79,000	82,000
TOTAL* ..	16,900,000	16,600,000	17,600,000	18,200,000	18,000,000	18,600,000	8,400,000	8,400,000	8,700,000	9,200,000	9,000,000	9,500,000
WORLD'S TOTAL*	18,400,000	18,200,000	18,900,000	19,800,000	20,000,000	20,300,000	8,400,000	8,400,000	8,700,000	9,200,000	9,000,000	9,500,000

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

(a) Concentrates.

(b) Including by-product pyrites.

(c) United States Bureau of Mines' estimate.

(d) Including pyrrhotite.

(e) Copper pyrites included.

EXPORTS OF PYRITES

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Canada (a)	(£297,827)	(£310,557)	(£291,585)	(£324,653)	(£325,373)	(£360,181)
Cyprus—						
Iron pyrites	790,020	748,786	724,138	701,162	735,022	710,260
Cupreous pyrites	105,622	103,848	86,128	173,513	161,653	183,673
OTHER COUNTRIES						
Austria	3,925	—	131	—	—	—
Belgium-Luxemburg E.U.	—	—	—	929	3	—
Finland—						
Concentrate	69,889	53,761	77,458	61,653	50,421	30,816
Germany (Federal)	1	12	32	81	262	173
Greece	46,710	43,300	56,577	7,736	5,935	4,260
Italy—						
Iron pyrites	155,768	100,245	46,804	51,739	51,475	51,262
Cupreous pyrites						
Norway	550,880	636,594	622,815	576,702	546,023	476,711
Poland	n.a.	n.a.	30,960	8,632	38,926	53,703
Portugal—						
Iron pyrites	287,469	269,668	289,552	313,599	268,218	240,320
Cupreous pyrites	2,102	2,153	172	—	—	—
Spain—						
Iron pyrites	1,006,004	1,015,116	1,198,642	1,149,427	813,913	690,023
Cupreous pyrites						
Sweden	23,511	13,833	20,907	13,009	40,674	38,882
U.S.S.R.	768,700	1,000,000	927,100	1,213,000	1,478,000	1,586,000
Yugoslavia	289,346	276,646	107,723	159,041	187,147	94,883
Algeria	34,144	32,381	31,642	35,313	n.a.	n.a.
Morocco	177	5,948	n.a.	3,889	n.a.	n.a.
Turkey	108,938	84,145	94,139	121,213	89,740	117,485

(a) Sulphur in ores (pyrite).

IMPORTS OF PYRITES

Long tons

Importing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom ..	281,527	200,323	284,306	224,340	259,233	241,750
Irish Republic	2,638	1,381	3,060	2,171	1,950	1,900
OTHER COUNTRIES						
Austria	30,126	24,409	29,616	27,243	26,047	24,518
Belgium-Luxemburg ..						
E.U.	313,586	297,329	277,572	263,844	259,844	271,778
Czechoslovakia (a) ..	68,000	108,000	129,000	118,000	48,000	n.a.
Denmark	134,388	130,380	132,535	140,465	182,105	111,573
France	432,379	389,375	363,157	345,434	333,629	310,827
Germany (Federal) ..	1,315,889	1,476,010	1,576,463	1,523,811	1,417,052	1,414,242
Germany (East) (a) ..	92,638	88,653	138,223	109,877	106,102	107,170
Hungary	91,660	122,248	204,246	143,000	152,000	173,220
Italy	679,026	754,010	840,611	916,883	943,346	1,186,342
Netherlands	245,552	237,071	252,535	207,479	265,572	88,820
Poland	n.a.	23,900	n.a.	n.a.	n.a.	n.a.
Sweden	82,120	62,922	29,464	81,403	122,769	122,489
Switzerland	34,450	36,735	31,414	47,354	45,583	45,260
Egypt	33,498	159,049	58,273	44,746	91,874	n.a.
South Africa	n.a.	n.a.	7,391	—	7,487	7,674
Tunisia	3,861	12,750	16,890	3,727	7,857	7,643
United States	301,899	194,171	n.a.	n.a.	n.a.	9,635
Japan	n.a.	n.a.	n.a.	28,975	261,370	77,305

(a) S content.

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

Long tons

Producing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Nigeria—						
Monazite	10	11	12	126	35	109
Thorite (c)	—	—	—	1	—	—
Canada—						
Thorium oxide (e) ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	39	52
Ceylon—						
Monazite	—	—	23	(a) 125	35	20
India—						
Monazite (d)	2,598	2,368	2,060	(e) 2,500	2,300	(e) 2,500
Malaysia (West) (a)—						
Monazite	623	885	303	695	1,022	947
Australia (b)—						
High-grade concentrates	772	1,875	1,848	2,165	1,836	2,573
OTHER COUNTRIES						
Malagasy Republic—						
Monazite	627	605	949	1,068	837	366
Uranothorianite (f) ..	500	473	551	505	413	—
South Africa—						
Monazite	(g) 4,755	(g) 2,054	—	—	—	—
Gadolinite	—	1	—	—	—	—
Brazil—						
Monazite	374	513	654	588	734	1,062
Indonesia—						
Monazite	137	151	138	25	<i>n.a.</i>	5
Korea (South)—						
Monazite	674	—	—	—	—	12

Rare earth and thorium minerals are also produced in the United States.

(a) Exports.

(b) Monazite content. Estimated.

(c) Between 5% and 6% ThO₂.

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

(e) Estimated.

(f) Containing an average of 60% Th.

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

EXPORTS OF RARE EARTH MINERALS, ETC.

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Ceylon—						
Monazite	—	300	—	125	<i>n.a.</i>	<i>n.a.</i>
India—						
Monazite	<i>n.a.</i>	—	475	1,706	<i>n.a.</i>	<i>n.a.</i>
Malaysia (West)—						
Monazite	623	885	303	695	1,022	1,203
Australia—						
Concentrates	1,460	2,313	2,041	2,240	2,092	1,829
OTHER COUNTRIES						
Austria—						
Salts of rare earth minerals (a)	143	201	—	32	—	—
France—						
Salts of rare earth minerals	888	275	249	302	450	426
Germany (Federal)—						
Compounds of rare earth minerals	838	13	59	26	378	395
Malagasy Republic—						
Monazite	569	683	845	1,021	898	—
Uranothorianite	535	474	610	414	353	302
United States—						
Cerium ores, metals, etc.	2	57	731	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Thorium ore, concentrates and compounds	489	21	32	18	54	<i>n.a.</i>
Brazil—						
Cerium chloride ..	906	851	875	4,244	1,573	1,376

(a) Including uranium salts.

IMPORTS OF RARE EARTH MINERALS, ETC.

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Canada—						
Thorium and cerium salts	(£7,789)	(£2,570)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
OTHER COUNTRIES						
Austria—						
Salts of rare earth minerals (a)	1,128	1,042	934	—	—	—
France—						
Rare earth minerals ..	1,779	1,040	1,465	1,382	1,376	1,115
Salts of rare earth minerals	42	45	32	96	104	359
Germany (Federal)—						
Rare earth minerals ..	25	20	5	—	—	—
Salts of rare earth minerals (a)	838	723	529	774	422	476
United States—						
Monazite sand and other thorium ore	6,830	5,741	1,879	1,811	<i>n.a.</i>	<i>n.a.</i>

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	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Rock-salt	477,000	752,000	693,000	723,000	1,030,000	692,000
Brine-salt	1,259,960	1,388,788	1,347,000	1,428,000	1,455,000	1,391,000
Salt in brine (a) ..	4,243,786	4,251,621	4,598,000	4,738,000	4,732,000	4,918,000
Malta—						
Sea-salt	1,846	1,605	2,077	1,976	2,044	n.a.
Ghana	19,000	20,000	30,000	27,000	35,000	30,000
Kenya	18,568	32,683	40,056	50,741	53,333	48,032
Mauritius—						
Sea-salt	3,700	4,100	4,300	4,100	4,100	4,100
Nigeria	326	276	548	890	834	n.a.
Tanzania	29,377	31,908	35,251	r 39,834	41,340	35,534
Uganda	3,159	3,072	2,849	5,429	5,461	n.a.
Zambia	6	—	—	—	—	—
Canada—						
Rock-salt	1,667,486	1,563,782	r 1,675,157	2,298,236	2,034,304	2,698,317
Other salt (c)	1,604,605	1,738,813	r 1,886,311	1,948,526	2,059,166	2,035,573
West Indies—						
Sea-salt—						
Bahamas (d)	154,571	105,857	220,786	413,714	520,000	711,250
St. Kitts (d)	1,332	783	2,777	4,009	5,505	n.a.
Virgin Islands (d) ..	6	n.a.	3	4	2	—
Turks and Caicos Islands	(b) 30,000	(b) 25,000	n.a.	3,000	n.a.	n.a.
Aden	77,000	85,000	79,000	71,000	71,000	59,000
Ceylon	45,796	22,531	50,698	77,203	63,467	74,610
Cyprus	5,663	6,848	—	5,003	3,949	6,581
India—						
Rock-salt	4,400	3,300	2,800	2,800	4,437,000	4,399,000
Other salt	3,820,300	4,469,000	r 4,573,400	4,625,400		
Goa	10,000	n.a.	n.a.	n.a.	13,089	18,010
Pakistan—						
Rock-salt	187,902	244,645	219,277	268,815	259,767	n.a.
Sea-salt	252,484	213,733	183,990	215,525	207,993	439,000
Australia	536,019	581,537	545,491	654,533	644,817	703,157
New Zealand	8,900	11,000	21,332	34,170	35,450	55,200
TOTAL	14,500,000	15,600,000	16,200,000	17,600,000	17,700,000	18,600,000
OTHER COUNTRIES						
Austria—						
Rock-salt	5,033	5,005	1,359	969	802	884
Evaporated salt	144,366	163,444	164,168	182,668	182,525	187,957
Bulgaria	146,000	104,000	81,000	123,000	111,000	(b) 147,000
Czechoslovakia	178,980	184,000	181,000	188,000	n.a.	194,000
France—						
Rock-salt (incl. refined)	677,365	749,183	833,598	1,052,947	927,111	873,000
Salt in brine	2,266,430	2,291,092	2,356,783	2,217,926	2,420,849	2,392,000
Sea-salt	1,247,267	595,167	778,021	1,108,290	1,044,300	1,516,000
Germany (Federal)—						
Rock-salt	4,487,751	5,150,981	5,318,420	5,024,379	5,041,156	5,084,048
Brine-salt	340,491	357,515	392,518	431,110	564,097	580,818
Salt in brine	503,368	n.a.	542,889	1,140,449	1,189,355	1,133,795

(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	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES (cont.)						
Germany (East)	2,000,000	2,046,000	2,046,000	1,860,000	(a)2,000,000	(a)2,000,000
Greece—						
Sea-salt	112,751	81,658	r 93,943	r 85,786	89,944	93,000
Italy—						
Rock-salt and brine-salt	1,703,942	r 1,862,343	1,999,792	2,095,174	2,083,350	2,536,348
Sea-salt	1,116,054	888,772	n.a.	n.a.	n.a.	n.a.
Netherlands (brine-salt)	1,242,000	1,456,000	1,571,000	1,680,600	1,828,000	1,894,600
Poland—						
Rock-salt	598,000	635,000	650,000	663,000	750,000	817,000
Brine-salt	238,000	242,000	265,000	281,000	287,000	289,000
Other salt	1,205,000	1,221,000	1,291,000	1,316,000	1,334,000	1,342,000
Portugal—						
Rock-salt	72,631	77,723	87,632	88,162	95,991	110,929
Sea-salt	309,836	263,527	228,325	402,989	252,768	315,566
Roumania	1,454,000	1,611,000	1,780,000	1,984,000	2,014,000	2,026,000
Spain—						
Rock-salt	616,200	688,344	721,812	r 782,483	} 1,800,000	} 1,600,000
Sea-salt	965,600	951,300	1,133,273	1,008,953		
Other salt	18,036	13,976	18,497	20,154		
Switzerland	165,291	187,704	178,703	226,730	187,057	212,954
U.S.S.R.	8,400,000	9,409,000	9,940,000	(a)9,400,000	(a)9,400,000	(a)9,400,000
Yugoslavia—						
Sea-salt	86,000	32,000	52,000	39,000	} 162,000	{ 40,000
Evaporated salt ..	126,000	132,000	129,000	131,000		
Algeria—						
Brine-salt and sea-salt ..	116,000	122,000	114,000	n.a.	n.a.	(a) 115,000
Angola	59,413	67,520	79,813	58,679	60,298	76,460
Canary Islands (sea-salt)	14,112	17,673	20,130	15,675	n.a.	n.a.
Cape Verde Islands	26,437	28,666	31,072	39,000	n.a.	n.a.
Egypt	551,329	385,860	663,901	486,317	617,064	574,363
Ethiopia (d)	r 133,000	r 195,000	r 107,000	185,000	(a) 185,000	202,000
Libya (sea-salt)	14,000	19,000	12,000	12,000	49,000	n.a.
Morocco	27,135	36,752	59,750	33,746	38,186	20,029
Mozambique—						
Rock-salt	40	40	n.a.	} 29,526	} 25,589	} 37,340
Other salt	27,071	25,859	n.a.			
Senegal	47,442	59,033	55,220	50,091	59,788	69,888
South Africa	251,081	194,656	295,378	325,496	309,938	311,671
South West Africa—						
Rock-salt	4,379	5,010	5,000	4,445	4,853	n.a.
Other salt	70,000	59,000	92,000	91,100	57,573	n.a.
Sudan	56,956	36,418	59,000	51,000	42,000	(a) 39,000
Tunisia (sea-salt)	167,300	303,254	210,618	348,215	322,838	237,429
Costa Rica (b)	10,000	10,000	10,000	10,000	10,000	12,000
Dominican Republic—						
Rock-salt	31,704	28,854	2,185	20,300	19,322	905
Sea-salt	9,740	n.a.	28,365	25,528	24,252	15,517
Guatemala (sea-salt)	16,583	18,600	17,800	14,740	19,330	14,366
Haiti (b)	10,000	10,000	10,000	10,000	10,000	10,000
Honduras	10,000	(b) 10,000	(b) 10,000	(b) 10,000	(b) 10,000	(b) 22,000
Mexico	1,271,000	1,205,000	1,754,000	2,165,000	2,360,000	3,278,000
Netherlands Antilles	(c) 119	(c) 106	(c) 47	n.a.	n.a.	n.a.
Nicaragua (sea-salt)	12,531	16,234	16,767	17,605	17,911	18,219
Panama (sea-salt)	10,333	9,923	10,846	11,000	9,000	n.a.
Salvador (sea-salt)	(b) 30,000	(b) 30,000	(b) 30,000	19,730	22,758	24,113

(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	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
United States (e)—						
Rock-salt	6,898,000	7,451,000	7,637,000	8,759,000	9,000,000	10,412,000
Salt in brine	14,677,000	15,647,000	16,399,000	17,814,000	19,061,000	19,639,000
Evaporated salt ..	4,146,000	4,260,000	4,198,000	4,397,000	4,496,000	4,722,000
Argentina—						
Rock-salt	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	3,344	3,690	<i>n.a.</i>
Other salt	505,946	170,000	385,203	712,977	875,915	803,636
Brazil (sea-salt) ..	1,220,812	1,097,490	742,015	1,180,732	1,417,971	1,023,280
Chile	50,207	47,480	90,529	55,448	199,480	411,191
Colombia—						
Rock-salt	262,030	258,770	284,396	275,465	278,752	303,553
Sea-salt	38,602	33,622	49,855	45,455	119,123	156,612
Ecuador (sea-salt) ..	26,024	(a) 30,000	(a) 30,000	(a) 30,000	34,000	<i>n.a.</i>
Peru—						
Rock-salt	10,678	8,895	8,970	9,050	} 170,413	} 138,438
Sea-salt	75,489	72,098	77,410	78,209		
Brine-salt	5,996	5,043	10,263	5,833		
Venezuela (sea-salt) ..	142,512	75,200	199,493	169,051	146,407	168,266
Afghanistan (d)	30,500	30,000	r 30,000	37,000	37,000	<i>n.a.</i>
Burma—						
Sea-salt	151,971	} 158,000	125,000	130,000	a)(b)116,000	166,000
Brine-salt	1,267					
China (a)	10,000,000	10,000,000	10,000,000	13,000,000	13,000,000	13,000,000
Formosa (sea-salt) ..	585,322	616,233	592,668	551,199	404,596	509,330
Cambodia	(a)(b)39,000	59,000	(a)(b)58,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Indonesia	299,000	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	211,482	(a)(b)250,000
Iran (d)	265,000	340,000	217,000	221,000	<i>n.a.</i>	<i>n.a.</i>
Iraq (c)	37,471	30,000	(a)(b)27,000	(a)(b)60,000	(a)(b)54,000	(a)(b)59,000
Israel	44,302	50,799	41,883	53,925	56,727	56,179
Japan—						
Government-licensed plants	865,000	735,000	879,000	835,000	837,000	958,000
Jordan (brine-salt) ..	17,799	17,444	19,614	20,115	18,435	13,982
Korea (North)	414,000	a)(b)450,000	a)(b)400,000	a)(b)500,000	a)(b)500,000	a)(b)500,000
Korea (South)	381,947	226,454	379,516	658,310	387,281	602,364
Lebanon (sea-salt) (a) ..	16,000	18,000	20,000	20,000	24,000	25,000
Philippine Republic—						
Sea-salt	94,155	69,014	45,891	221,000	140,000	116,000
Syria	18,000	15,000	16,000	21,000	(a)(b)20,000	(a)(b)20,000
Thailand	254,000	262,000	187,000	185,000	a)(b)200,000	a)(b)110,000
Turkey—						
Rock-salt	28,000	29,000	32,000	34,000	31,000	} 627,000
Lake and spring salt ..	} 396,000	362,000	317,000	451,000	249,000	
Sea-salt						
Vietnam (North)	142,000	126,000	a)(b)150,000	a)(b)150,000	a)(b)150,000	<i>n.a.</i>
Vietnam (South)	189,603	193,135	186,157	158,860	<i>n.a.</i>	<i>n.a.</i>
Yemen	147,000	a)(b)100,000	(a)(b)35,000	—	<i>n.a.</i>	(a)(b)98,000
TOTAL*	76,000,000	77,000,000	82,000,000	90,000,000	93,000,000	97,000,000
WORLD'S TOTAL* ..	91,000,000	93,000,000	98,000,000	108,000,000	111,000,000	115,000,000

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

(a) Estimated.

(b) United States Bureau of Mines.

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

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

(e) Sold or used by producers.

EXPORTS OF SALT

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom	319,928	362,866	357,127	399,064	447,101	414,708
Kenya	681	85	12	18	162	762
Tanzania	9,654	12,553	10,146	14,656	12,294	10,914
Uganda	660	565	546	441	1,144	1,615
Canada	3,560,418	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Bahamas (c)	154,571	105,857	220,786	413,714	520,000	711,250
St. Kitts	1,332	783	2,777	3,716	5,505	<i>n.a.</i>
Virgin Islands	6	5	3	4	2	—
Turks and Caicos Islands	21,098	26,559	8,271	6,535	5,580	<i>n.a.</i>
Aden	99,858	72,574	93,021	47,939	74,237	71,464
India (b)	167,832	191,611	278,932	269,521	234,483	281,568
Malaysia (West)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	166	208	1,222
Pakistan	89,304	56,151	185,876	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Singapore	4,745	1,177	4,527	3,747	4,051	5,675
Australia (a)—						
Refined salt	95	253	203	382	—	2,129
Other salt	73,702	74,606	107,144	111,289	101,313	90,761
OTHER COUNTRIES						
Austria	2,430	1,244	3	1,201	202	4
Belgium-Luxemburg						
E.U.	648	526	1,747	3,394	4,183	3,807
Denmark	298	235	245	351	13,223	12,803
France	103,097	135,101	135,083	92,587	115,816	92,336
Germany (Federal)	780,216	876,238	857,140	946,191	930,263	997,547
Italy	28,365	74,266	56,443	56,876	18,403	21,075
Netherlands—						
Refined salt	724,458	849,511	943,986	963,759	1,039,909	1,133,681
Norway—						
Common salt	3,000	5,932	4,621	3,895	4,125	2,946
Poland	137,000	141,000	169,000	116,511	169,517	141,180
Portugal	2,269	81	8	16	21	300
Roumania	287,200	304,300	381,100	470,800	423,000	<i>n.a.</i>
Spain	503,206	457,880	329,155	397,630	309,404	294,414
Sweden	292	1,225	32	1,316	300	26
Switzerland	1	2,569	3,282	3,137	2,046	7
U.S.S.R.	131,800	136,000	107,200	161,900	191,900	265,834
Angola	22,506	23,958	33,401	24,321	33,971	30,082
Cape Verde Islands	30,766	32,346	35,145	28,086	31,341	<i>n.a.</i>
Egypt	205,544	160,130	327,201	225,981	270,000	<i>n.a.</i>
Ethiopia	119,994	57,276	78,417	78,247	<i>n.a.</i>	154,009
Malagasy Republic	1,307	2,364	1,607	2,052	2,083	1,293
Mozambique	4,296	3,378	3,692	7,230	8,783	<i>n.a.</i>
Morocco	13	10	12	3	—	1
Senegal	12,212	44,685	11,725	6,061	7,843	18,122
South Africa	24,725	23,494	29,707	30,890	33,072	27,576
South West Africa—						
Rock-salt	1,895	2,271	2,882	2,513	2,461	<i>n.a.</i>
Coarse salt	35,854	42,558	50,930	44,988	51,909	<i>n.a.</i>
Other salt	1,104	1,512	1,409	1,031	2,166	<i>n.a.</i>
Sudan	516	506	981	773	1,684	213
Tunisia	128,764	263,206	191,600	372,318	271,311	274,348
Dominican Republic	26,162	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Honduras	1,709	3,139	5,816	6,234	6,372	6,397
Mexico	1,047,209	990,573	1,428,287	1,575,789	836,137	2,716,607

(a) Years ended June 30 of that stated.

(b) Years ending March 31 following that stated.

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

EXPORTS OF SALT (cont.)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Netherlands Antilles ..	119	106	47	—	—	—
Salvador	1,920	1,888	3,026	7,162	4,737	8,428
United States	593,931	251,014	530,641	615,552	591,563	605,115
Argentina	37,198	56,498	66,430	88,057	58,937	48,244
Peru	1,011	578	336	118	179	236
Burma	9,240	10,000	5,625	—	<i>n.a.</i>	<i>n.a.</i>
Formosa	233,137	278,959	392,420	297,649	128,014	<i>n.a.</i>
Iran (a)	1,954	2,460	3,337	3,549	2,015	3,148
Japan	20	39	13	7	4,732	7,669
Thailand	132,874	114,933	122,903	80,495	83,517	74,771
Turkey	52,611	57,809	126,902	r 87,121	51,040	6,693
Vietnam (South) ..	35,677	20,270	38,433	4,921	<i>n.a.</i>	<i>n.a.</i>

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

IMPORTS OF SALT

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Salt for use of fisheries..	42,055	170,399	30,975	53,119	54,290	29,031
Other salt	<i>n.a.</i>	5,575	5,864	5,573	6,505	7,183
Channel Islands	535	593	641	548	420	778
Malta—						
Refined salt	(£3,774)	(£4,055)	(£4,863)	(£6,546)	(£5,972)	(£5,491)
Other salt	—	5	236	360	420	56
Gambia	325	94	254	98	120	35
Ghana	353	2,652	2,079	8,418	706	137
Kenya	6,748	9,658	11,889	5,461	4,930	4,966
Malawi	<i>n.a.</i>	<i>n.a.</i>	5,973	9,178	9,131	9,125
Mauritius	35	158	19	148	56	99
Nigeria	111,449	124,005	131,522	127,993	123,557	124,029
Rhodesia (a)	39,858	38,570	28,750	38,973	<i>n.a.</i>	<i>n.a.</i>
Seychelles	216	343	196	428	233	233
Sierra Leone	6,361	8,720	8,859	6,881	10,788	<i>n.a.</i>
Tanzania	6,961	4,130	3,717	4,403	4,368	3,138
Uganda	23,739	25,838	26,553	34,744	22,165	21,234
Zambia	<i>n.a.</i>	<i>n.a.</i>	10,136	10,720	12,166	11,586
Canada—						
Salt for use of fisheries..	42,564	59,674	40,772	46,291	} 454,954	506,261
Refined salt	1,060	—	—	—		
Other salt	175,871	237,273	321,347	347,995		
Antigua	178	200	286	190	256	764
Barbados—						
Rock and coarse salt ..	53	59	} (c) 7,543	1,951	6,992	1,946
Refined salt	2,098	648				
Bermuda	132	192	183	177	166	180
British Honduras	501	613	469	567	582	715
Dominica	554	363	263	242	317	<i>n.a.</i>
Grenada	528	585	293	2,388	567	618
Jamaica—						
Rock-salt	36	56	192	105	63	124
Other salt	10,865	11,360	11,209	10,920	11,370	11,839
Montserrat	38	27	63	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
St. Kitts	96	82	55	r 127	105	100
St. Lucia—						
Common salt	854	474	339	595	747	649
Refined salt	78	14	2	14	40	4
St. Vincent—						
Unrefined salt	78	150	<i>n.a.</i>	6	19	1
Refined salt	315	334	<i>n.a.</i>	424	435	440
Trinidad and Tobago—						
Rock and coarse salt ..	1,024	2,878	2,373	2,137	2,339	2,749
Refined salt	5,114	3,988	4,796	6,209	7,421	7,670
Virgin Islands	9	9	12	14	21	15
Guyana—						
Rock and coarse salt ..	71	<i>n.a.</i>	17	21	(c) 2	1
Refined salt, etc. ..	2,806	<i>n.a.</i>	2,546	2,705	2,702	2,832
Aden	45	29	—	—	—	—
Brunei	335	3,273	336	1,006	734	1,095
Ceylon—						
Refined salt	28	41	72	50	80	64
Other salt	54,919	36,632	32,748	39,132	4,113	10,950
Cyprus	211	270	227	245	314	212
Hong Kong	38,058	33,664	32,652	30,803	29,465	32,434
India (b)	1,902	28	3,533	105	—	4
Malaysia (West)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	63,898	71,640	83,114
Pakistan	8,910	1,915	2,601	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sabah	2,916	3,288	8,354	3,180	2,965	3,710

(a) Figures for years 1962 and 1963 relate to Rhodesia and Nyasaland.

(b) Years ended March 31 following that stated.

(c) Excess of re-exports.

IMPORTS OF SALT (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES (cont.)						
Sarawak	5,036	6,117	5,008	5,588	5,660	6,379
Singapore	23,689	22,137	20,531	19,753	26,826	27,022
Australia (a)—						
Refined salt	366	11	16	45	77	9
Other salt	7,766	7,203	7,056	6,523	7,012	12,716
Fiji	2,066	2,308	1,767	1,514	2,173	1,961
New Guinea (a)	1,386	1,352	1,695	1,289	1,566	1,297
New Hebrides	164	276	207	200	221	—
New Zealand	51,759	57,565	(a) 62,429	(a) 50,995	(a) 50,456	(a) 43,749
Papua (a)	348	356	401	408	462	312
Solomon Islands	54	65	80	65	84	67
Western Samoa	352	360	280	263	386	435
Irish Republic—						
Refined salt	4,393	4,515	4,403	5,224	4,890	4,717
Other salt	36,841	34,991	32,874	35,765	38,913	41,379
OTHER COUNTRIES						
Austria—						
Common salt	102	364	90	62	767	21
Belgium-Luxemburg E.U.—						
Common salt	585,304	647,712	701,448	672,069	722,187	818,204
Refined salt	94,926	113,231	109,695	108,668	111,036	110,507
Denmark—						
Rock-salt	68,436	89,707	82,869	101,305	153,473	107,057
Refined salt	76,248	78,079	80,291	88,687	84,071	39,356
Faroe Islands	19,605	33,292	25,453	34,919	20,898	35,807
Finland	270,100	263,110	302,303	320,728	370,071	346,779
France	76,521	61,720	131,660	115,875	57,141	50,649
Germany (Federal)	24,759	55,520	94,592	92,368	98,659	123,598
Iceland—						
Common salt	56,147	53,806	52,101	50,942	42,945	42,189
Refined salt	207	238	289	295	310	317
Italy	141,438	54,969	36,958	2,143	379	3,589
Netherlands—						
Rock-salt	9,559	26,886	8,968	11,880	46,794	38,939
Sea-salt, etc.						
Refined salt	14,142	34,952	25,466	23,150		
Norway—						
Common salt	141,186	102,332	91,014	126,176	136,833	112,559
Refined salt	101,625	157,581	157,259	164,945	164,724	151,838
Portugal	5,776	11,495	9,535	27,620	20,324	10,866
Spain	—	105	389	336	638	511
Sweden	586,971	628,295	661,591	732,748	819,887	811,043
Switzerland	774	2,791	829	1,103	1,104	928
Yugoslavia	27,722	88,186	104,255	159,251	163,984	121,756
Cameroun	12,482	11,221	16,620	15,672	n.a.	n.a.
Central African Republic	(b)	(b)	3,754	2,104	5,296	3,918
Congo (Republic of)	(b)	(b)	2,701	2,109	3,024	1,667
Dahomey	944	1,121	1,236	2,285	2,848	8,944
Egypt	11	n.a.	n.a.	n.a.	n.a.	n.a.
Equatorial African Community	8,829	13,868	(c)	(c)	(c)	(c)
Ethiopia	n.a.	398	126	n.a.	n.a.	n.a.
Gabon	(b)	(b)	1,327	1,746	2,012	2,430
Ivory Coast	5,629	24,937	22,673	18,683	22,111	23,990

(a) Years ended June 30 of that stated.

(b) Included in Equatorial African Community.

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

IMPORTS OF SALT (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Liberia	3,317	6,669	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Malagasy Republic	3,408	526	626	910	549	803
Mali	15,007	17,088	17,673	14,919	20,504	15,993
Morocco	584	1,921	5,388	235	51	69
Mozambique	1,903	3,746	2,332	1,509	1,341	<i>n.a.</i>
Niger	16,839	5,229	6,598	4,962	<i>n.a.</i>	13,385
Reunion	<i>n.a.</i>	<i>n.a.</i>	1,611	2,139	2,111	1,465
Senegal	103	177	87	73	102	113
South Africa	2,284	2,419	2,418	2,082	1,732	2,092
Sudan	77	59	1,211	58	29	46
Togo	9,103	10,761	10,692	6,877	6,727	3,001
Upper Volta	7,315	10,858	12,147	7,549	<i>n.a.</i>	<i>n.a.</i>
Costa Rica	95	103	272	254	1,454	4,098
French West Indies—						
Guadeloupe	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,168	898	1,005
Martinique	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	2,507	2,225	2,933
Greenland	7,356	7,555	3,301	3,699	7,163	9,302
Guatemala	142	227	1,617	4,598	2,058	4,679
Honduras	1,876	1,755	1,620	2,334	140	3,860
Mexico	862	1,220	1,027	4,812	1,204	5,112
Netherlands Antilles	619	523	577	622	623	1,090
Nicaragua	681	580	1,939	2,767	3,963	6,791
St. Pierre and Miquelon	2,414	232	2,118	<i>n.a.</i>	1,551	3,790
Salvador	1,724	2,764	4,202	4,182	2,148	1,731
United States	1,226,588	1,353,713	2,089,176	1,575,828	1,626,000	2,538,382
Bolivia	199	161	120	186	154	37
Brazil	37	175	51,395	245,568	194,153	48,712
Colombia	3	7	7	4	15	7
French Guiana	<i>n.a.</i>	<i>n.a.</i>	277	306	228	317
Peru	2,420	3,439	3,271	4,258	2,645	2,671
Surinam	1,000	1,195	1,181	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Uruguay	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	57,804	50,072	50,064
Burma	1,779	1,451	816	812	<i>n.a.</i>	<i>n.a.</i>
Iran (a)	119	82	78	113	185	112
Iraq	377	55	61	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Japan	2,610,880	2,901,189	3,583,607	3,487,467	3,771,232	4,361,824
Laos	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Lebanon	1,876	1,101	1,439	1,811	412	584
Syria	17,818	23,109	—	15,394	28,845	13,271
Philippine Republic—						
Crude	582	553	690	22,228	<i>n.a.</i>	<i>n.a.</i>
Refined	239	147	185	169	<i>n.a.</i>	<i>n.a.</i>
French Polynesia	402	—	396	557	320	<i>n.a.</i>
New Caledonia	419	474	551	431	378	395

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

SELENIUM
PRODUCTION OF SELENIUM

Lb. avdp.

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Zambia (a)	71,453	62,891	57,631	57,573	<i>n.a.</i>	<i>n.a.</i>
Canada	487,066	468,772	465,746	512,077	575,412	752,221
OTHER COUNTRIES						
Belgium (b)	29,500	54,000	87,100	93,000	90,100	90,400
Finland	11,797	15,417	14,500	12,577	11,973	(d) 13,900
Sweden	155,060	156,222	181,540	176,209	144,041	128,529
Yugoslavia	3,986	4,120	8,439	17,441	(d) 18,000	(d) 22,000
Mexico	2,458	5,463	9,345	8,120	24,458	<i>n.a.</i>
United States (c) ..	999,000	928,000	929,000	540,200	620,300	598,000
Peru	18,380	19,790	16,797	18,964	13,131	10,582
Japan	309,317	313,497	325,929	347,027	423,391	422,172
WORLD'S TOTAL ..	2,090,000	2,030,000	2,100,000	1,780,000	1,900,000	2,100,000

Selenium is also produced in Australia.

(a) Contained in copper slimes exported for treatment.

(b) Exports.

(c) Including selenium content of compounds.

(d) United States Bureau of Mines' estimate.

EXPORTS OF SELENIUM

Lb. avdp.

Exporting Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Zambia (a)	71,453	62,891	57,631	57,573	<i>n.a.</i>	<i>n.a.</i>
Canada (b)	325,600	445,700	401,300	451,200	588,100	539,400
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.	29,500	54,000	87,100	93,000	90,100	72,300
Sweden	110,000	194,000	143,000	141,000	165,000	<i>n.a.</i>
Peru	10,518	19,764	24,478	19,253	14,870	10,741
Japan	111,962	105,650	102,092	68,976	92,806	105,275

(a) Contained in copper slimes exported for treatment.

(b) Including salts.

IMPORTS OF SELENIUM

Lb. avdp.

Importing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom ..	241,330	276,167	321,938	360,866	419,015	298,248
India (c)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	13,797	7,877	19,324
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.	12,600	2,900	1,500	700	700	5,300
France	66,000	70,500	70,500	62,000	93,000	62,000
Germany (Federal) ..	160,300	230,400	203,500	231,900	323,000	293,876
Italy	50,841	46,738	61,593	38,600	38,140	75,178
Spain	<i>n.a.</i>	9,572	14,533	16,557	14,306	13,190
Sweden	18,000	2,200	22,000	51,000	71,000	22,000
Yugoslavia	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	5,207	3,862	1,852
Morocco (b)	10,913	664	223	1,323	220	220
United States (a) ..	160,389	339,000	215,098	234,645	260,028	279,157
Argentina	12,613	5,719	12,710	14,716	15,999	15,809
Brazil	9,520	9,019	4,740	3,719	17,117	8,190
Peru	569	225	677	862	1,466	847
Japan	<i>n.a.</i>	3,307	7,184	130	1,795	10,578

(a) Including salts.

(b) Including tellurium.

(c) Years ending March 31 following that stated.

SILLIMANITE, Etc.

PRODUCTION OF SILLIMANITE, ETC.

Long tons

Producing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Rhodesia—						
Kyanite	—	54	230	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
India—						
Kyanite	48,834	31,520	33,623	36,889	62,664	49,164
Sillimanite	8,125	11,311	12,167	11,098	10,124	5,705
Australia—						
Kyanite, sillimanite and andalusite (a) ..	2,637	3,515	2,634	2,554	2,664	1,183
OTHER COUNTRIES						
Spain—						
Andalusite	—	—	—	128	<i>n.a.</i>	<i>n.a.</i>
Sillimanite	—	454	1,275	—	<i>n.a.</i>	<i>n.a.</i>
Cameroun—						
Kyanite	<i>n.a.</i>	69	—	—	—	—
South Africa—						
Andalusite	18,048	9,850	13,752	21,573	21,146	24,195
Sillimanite	52,815	55,353	53,787	41,482	34,549	34,826
South West Africa—						
Kyanite	1,488	—	563	—	18	<i>n.a.</i>
United States—						
Kyanite (b)	34,000	40,000	46,000	52,000	60,000	62,000
Korea (South)—						
Andalusite	450	657	110	126	—	59

(a) In addition the following amounts of kaolinised sillimanite were produced (long tons): 1962—1,681; 1963—3,325; 1964—3,325; 1965—6,805; 1966—6,797; 1967—7,679.

(b) Estimated. In addition the following amounts of synthetic mullite were produced (long tons): 1962—16,983; 1963—26,418; 1964—32,239; 1965—35,758; 1966—44,242; 1967—35,971.

EXPORTS OF SILLIMANITE, ETC.

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
India—						
Kyanite	36,364	27,886	28,363	30,652	35,161	40,011
Sillimanite	4,819	5,376	8,633	5,695	6,232	2,014
OTHER COUNTRIES						
France—						
Kyanite, sillimanite, etc.						
Crude	183	505	346	371	239	750
Calcined	750	311	563	229	871	852

EXPORTS OF SILLIMANITE, ETC. (cont.)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (Federal)—						
Kyanite, sillimanite, etc.						
Crude	306	247	} 105	{ 120	76	215
Calcined	5	13			185	165	1,616
Italy—						
Kyanite, sillimanite, etc.						
Crude	} 298	215	471	587	1,129	643
Calcined						
Netherlands—						
Kyanite, sillimanite, etc.	7,344	1,403	1,890	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
South-West Africa—						
Kyanite	1,944	—	546	206	27	<i>n.a.</i>
South Africa—						
Andalusite	5,974	5,041	6,179	9,046	12,407	7,354
Sillimanite	39,552	37,571	46,926	39,805	28,238	33,757
United States—						
Kyanite, etc.	3,186	4,509	5,429	9,141	15,481	19,132
Japan—						
Sillimanite, etc.	423	236	45	411	116	152

IMPORTS OF SILLIMANITE, ETC.*

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Kyanite, sillimanite, etc.	31,123	19,503	27,335	26,152	28,135	17,109
Canada—						
Kyanite, etc.	1,419	2,188	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Australia—						
Kyanite	9	870	1,939	1,000	1,332	1,714
Sillimanite	190	37	218	489	1,055	572
OTHER COUNTRIES						
France—						
Kyanite, sillimanite, etc.						
Crude	3,360	2,225	3,312	3,330	4,578	2,999
Calcined	1,193	1,554	1,482	2,036	1,578	1,392
Germany (Federal)—						
Kyanite, sillimanite, etc.						
Crude	20,879	20,716	15,128	17,647	18,795	14,686
Calcined	819	400	157	1,204	1,003	1,214
Greece—						
Kyanite, sillimanite, etc.	119	613	701	1,316	2,729	1,814
Italy—						
Kyanite, sillimanite, etc.						
Crude	} 9,567	11,828	{ 8,720	4,244	11,246	11,512
Calcined .. .. .							1,691	1,729
Netherlands—						
Kyanite, sillimanite, etc.	6,886	2,963	4,626	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
South Africa—						
Sillimanite	<i>n.a.</i>	<i>n.a.</i>	63	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
United States—						
Kyanite, sillimanite, etc.	4,715	2,343	2,131	3,613	3,040	1,626
Japan—						
Kyanite, sillimanite, etc.	18,638	18,258	32,474	26,448	25,079	34,887
Thailand—						
Kyanite, sillimanite, etc.	373	550	1,181	855	1,595	1,850

*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	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom ..	514	n.a.	n.a.	n.a.	n.a.	n.a.
Botswana ..	33	21	1	—	—	—
Ghana (a) ..	4,443	4,827	n.a.	—	—	—
Kenya ..	50,160	52,422	47,702	26,785	19,003	3,038
Rhodesia ..	83,540	83,741	88,463	(a) 83,285	(e) 95,000	n.a.
Swaziland ..	132	120	130	130	28	—
Tanzania ..	24,463	22,249	25,295	22,865	10,572	2,294
Uganda (a) ..	38	9	—	2	—	—
Zambia (b) ..	943,932	966,868	1,001,267	848,819	815,000	825,000
Canada ..	30,422,972	29,932,003	29,902,611	32,272,464	33,362,208	34,426,079
India ..	138,700	128,300	152,200	168,300	39,224	111,563
Australia ..	17,553,691	19,641,925	18,426,990	17,280,839	18,887,691	19,309,767
Fiji ..	38,935	46,870	60,564	60,470	67,499	61,820
New Guinea ..	24,511	23,695	23,206	19,663	18,052	17,176
New Zealand ..	416	286	141	55	2	—
TOTAL ..	49,286,000	50,904,000	49,730,000	50,784,000	53,000,000	55,000,000
OTHER COUNTRIES						
Czechoslovakia (d) ..	2,400,000	2,400,000	2,400,000	2,400,000	2,400,000	(e)2,400,000
Finland ..	380,504	579,967	607,906	582,186	520,103	623,000
France ..	898,970	730,110	969,440	1,401,200	2,008,300	2,163,000
Germany (Federal) ..	1,957,600	2,067,100	2,062,600	1,992,200	1,983,200	2,022,300
Germany (East) (d) ..	4,800,000	4,800,000	4,800,000	4,800,000	4,800,000	f)4,800,000
Greece ..	138,700	123,000	154,000	139,000	222,000	239,000
Italy ..	(g) 929,830	(g)1,006,300	(g)1,073,800	(g)1,103,400	(g)1,131,800	(g)1,382,400
Portugal ..	52,920	48,420	48,770	63,020	354,600	380,000
Roumania (d) ..	600,000	600,000	600,000	600,000	600,000	(e) 643,000
Spain ..	5,684,120	4,955,200	2,300,000	2,000,000	n.a.	n.a.
Sweden ..	3,367,300	3,580,200	3,122,300	3,408,800	3,517,100	3,438,072
Yugoslavia (g) ..	3,750,930	3,791,920	4,036,880	4,148,060	3,651,420	3,075,000
Algeria (f) ..	280,000	260,000	290,000	340,000	n.a.	n.a.
Congo Republic ..	1,595,500	1,097,200	1,480,300	1,538,400	1,851,400	1,839,800
Morocco ..	826,338	772,743	604,080	599,258	707,413	772,807
Mozambique ..	13	—	5	—	n.a.	n.a.
South Africa ..	2,549,206	2,736,868	2,916,660	3,131,580	3,134,093	3,063,505
South West Africa (c) ..	1,468,932	1,312,670	1,161,220	1,637,554	1,516,539	1,449,763
Tunisia ..	24,600	9,030	12,600	33,800	38,000	44,700
Guatemala ..	370,595	64,173	(h) 9,445	n.a.	n.a.	n.a.
Haiti ..	94,761	107,022	92,057	77,488	50,690	n.a.
Honduras ..	3,179,653	e 3,164,000	3,220,371	3,670,659	3,734,290	4,009,418
Mexico ..	41,220,000	42,760,000	41,716,260	40,332,080	41,990,000	40,156,000
Nicaragua ..	500,050	405,252	332,370	380,377	361,248	336,118
United States ..	36,798,000	35,243,000	36,334,000	39,806,033	43,668,988	32,118,694
Argentina ..	2,086,101	1,943,191	1,943,127	2,285,853	2,207,176	2,640,000
Bolivia (a) ..	3,759,129	4,869,037	4,810,973	4,114,427	5,124,828	4,249,653
Brazil ..	250,000	281,400	305,400	227,800	222,400	478,700
Chile ..	1,906,500	2,530,400	2,800,800	2,972,264	3,609,962	3,065,504

(a) Exports.

(b) Recovered from copper-refinery slimes.

(c) Accounted for by smelters.

(d) "Metallgesellschaft" estimate.

(e) United States Bureau of Mines' estimate.

(f) Estimated.

(g) Refined.

(h) Imports into the United States.

PRODUCTION OF SILVER (*cont.*)

Fine troy ounces

Producing Country	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES (<i>cont.</i>)						
Colombia.. .. .	131,599	106,280	130,353	113,451	106,757	110,060
Ecuador	127,700	121,800	117,126	69,966	76,710	79,657
Peru (<i>c</i>)	32,930,780	36,800,350	34,419,460	36,470,356	32,841,243	35,870,000
Burma	1,940,037	2,075,282	1,866,752	1,638,000	1,096,000	917,000
China (<i>a</i>).. .. .	800,000	800,000	800,000	800,000	800,000	800,000
Formosa	80,100	61,400	60,600	87,300	79,500	115,800
Indonesia.. .. .	248,236	279,840	252,930	298,777	220,779	308,969
Japan	8,660,510	8,812,070	8,714,750	8,970,000	10,300,000	10,833,000
Korea (South) .. .	412,910	444,000	404,460	434,000	500,100	587,910
Korea (North) (<i>a</i>) .. .	500,000	500,000	500,000	500,000	600,000	(<i>b</i>) 700,000
Philippine Republic .. .	675,570	767,249	907,504	933,938	1,162,889	1,368,976
TOTAL*	168,000,000	173,000,000	169,000,000	174,000,000	179,000,000	169,000,000
WORLD'S TOTAL* .. .	218,000,000	224,000,000	218,000,000	225,000,000	232,000,000	224,000,000

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

(*a*) "Metallgesellschaft" estimate.

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

(*c*) Recoverable.

TOTAL EXPORTS OF SILVER*

(Metal content)

Fine troy ounces

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Bullion	19,794,688	15,886,206	14,218,779	20,949,074	18,989,021	17,096,651
Ghana—						
Bullion	4,443	4,827	<i>n.a.</i>	—	—	—
Kenya—						
Refined bullion.. ..	46,304	44,114	46,834	29,750	16,924	—
Rhodesia (b)—						
Bullion	83,913	85,077	96,280	83,285	<i>n.a.</i>	<i>n.a.</i>
Tanzania—						
Refined bullion.. ..	23,959	22,521	25,329	22,865	10,572	2,293
Uganda—						
Bullion	38	9	—	2	—	—
Zambia—						
Bullion	<i>n.a.</i>	<i>n.a.</i>	40,000	2,539	40,000	166,000
Canada—						
Ore, concentrates, etc.	8,801,332	8,286,756	9,478,317	12,245,877	11,850,469	10,407,418
Bullion	15,112,369	13,628,006	10,586,939	11,268,110	12,221,142	13,735,675
Hong Kong	682,711	1,428,913	3,594,709	1,631,164	881,558	897,118
Singapore—						
Bullion	1,711,000	1,130,000	405,000	373,000	628,000	1,086,000
Australia (a)—						
Ores and concentrates	2,748,415	3,045,752	3,766,059	2,740,289	2,959,026	3,432,019
Silver-lead bullion ..	3,260,286	5,233,426	5,502,534	3,367,282	5,887,644	4,714,641
Bullion, refined	732,480	239,166	4,536,735	1,366,813	247,428	} (c) 2,724,878
do. unrefined	—	—	4,308	—	901	
Beaten, rolled or drawn	7,005	4,429	33,027	89,101	178,218	
Fiji—						
Bullion	1,840	2,560	(c) 60,260	(c) 60,640	(c) 67,783	(c) 61,690
New Guinea (a)—						
Bullion	27,438	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Irish Republic—						
Bullion	328,400	182,100	214,000	14,100	34,400	16,295
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Bullion and scrap ..	8,198,000	10,510,000	10,870,000	8,131,000	9,208,000	8,115,000
Denmark—						
Bullion	40,000	15,000	36,000	45,000	58,000	11,000
Beaten, rolled or drawn	—	1,000	13,000	12,000	4,000	6,000
France—						
Bullion and scrap ..	3,880,000	1,751,000	1,031,000	1,183,000	3,126,000	773,000
Beaten, rolled or drawn	557,000	1,096,000	3,077,000	4,904,000	2,026,000	1,409,000
Germany (Federal)—						
Bullion	19,377,000	21,873,000	18,066,000	15,751,000	14,416,000	13,542,000
Netherlands—						
Bullion and scrap ..	2,673,000	1,432,000	588,000	1,355,000	771,000	722,000
Beaten, rolled or drawn	295,000	233,000	284,000	345,000	211,000	217,500
Sweden—						
Bullion	1,591,000	1,222,000	482,000	390,000	386,000	1,800,000
Switzerland—						
Bullion	362,000	470,000	211,000	1,107,000	1,848,000	1,676,000
Yugoslavia—						
Bullion	2,850,000	2,572,000	2,415,000	3,079,000	2,977,000	2,616,000

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

(a) Years ended June 30 of that stated.

(b) Figures for 1962 and 1963 relate to Rhodesia and Nyasaland.

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

EXPORTS OF SILVER (cont.)

Fine troy ounces

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Morocco—						
Bullion	—	5,000	85,000	17,500	<i>n.a.</i>	<i>n.a.</i>
South Africa—						
Bullion	2,120,592	1,679,079	1,699,777	2,773,203	11,827,383	11,174,998
South West Africa—						
Concentrates (b) ..	1,253,200	634,134	328,808	461,581	483,764	<i>n.a.</i>
Guatemala (a)—						
Ore and base bullion ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	378	<i>n.a.</i>
Honduras—						
Ore and base bullion ..	2,905,530	4,556,000	2,350,740	3,967,000	3,842,005	3,845,394
Mexico—						
Bullion, etc.	33,545,000	46,127,000	34,389,000	29,521,000	34,245,000	<i>n.a.</i>
Nicaragua—						
Bullion	288,134	203,514	168,791	165,700	447,956	181,870
Salvador—						
Bullion	—	3,400	—	11,000	<i>n.a.</i>	<i>n.a.</i>
United States—						
Ore and base bullion ..	770,000	1,298,000	2,676,000	537,000	369,000	2,365,000
Refined bullion	12,287,000	30,187,000	106,718,000	39,128,000	85,169,000	68,404,000
Argentina—						
Bullion, etc.	786,000	731,000	268,000	161,000	214,000	337,000
Bolivia—						
Ores, etc.	3,759,129	4,869,037	4,810,973	4,114,427	4,612,924	4,249,653
Chile—						
Ores, etc.	1,667,754	2,243,672	2,448,961	2,522,579	<i>n.a.</i>	<i>n.a.</i>
Ecuador (a)—						
Ore and base bullion ..	70,000	53,000	51,000	39,000	20,000	<i>n.a.</i>
Peru—						
Ores and concentrates	14,387,584	14,166,621	14,413,403	13,348,043	14,793,595	} 30,768,258
Bullion	19,620,308	17,000,000	23,000,000	19,695,419	20,576,305	
Matte, slag, etc. ..	380,721	500,674	125,169	938	—	
Burma—						
Bullion	1,400,129	1,250,912	1,406,039	1,002,648	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Bullion and scrap ..	(c) 386,000	(c) 94,000	(c) 2,913,000	(c) 155,000	(c) 99,000	(c) 167,259
Philippine Republic (a)—						
Ore and base bullion ..	359,000	403,000	351,700	356,700	587,000	<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	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ores	3,731,000	4,614,000	(d) 8,000	(d) 142,000	(d) 202,000	—
Unrefined bullion	2,295,008	1,069,413	340,387	5,466,339	6,685,162	13,226,990
Refined bullion	37,781,500	20,353,712	54,972,152	18,469,555	31,720,892	35,958,066
Malta—						
Bullion	8,400	7,800	10,000	(e) 7,800	(e) 11,951	(e) 15,749
Ghana—						
Bullion	36	6,368	400	176	—	—
Nigeria—						
Bullion, etc.	13,737	19,363	22,284	20,702	47,250	7,263
Sierra Leone—						
Bullion	3,450	6,936	1,344	n.a.	n.a.	n.a.
Zambia—						
Bullion	n.a.	n.a.	n.a.	2,539	n.a.	812
Canada—						
Bullion	15,182,336	7,949,829	c) 5,197,764	c) 13,413,434	c) 14,477,787	c) 5,383,872
Jamaica—						
Bullion	1,500	1,000	1,800	200	9,000	17,500
Trinidad and Tobago—						
Bullion	15,062	13,103	17,401	24,450	20,870	27,868
Guyana—						
Bullion	2,656	n.a.	3,260	5,655	6,190	7,134
Ceylon—						
Bullion	19,800	18,000	—	9,800	110,000	6,523
Cyprus—						
Bullion	60,500	62,400	43,600	76,000	109,000	112,000
Hong Kong—						
Bullion	r 25,988	r 86,333	r 106,546	r 278,800	245,266	252,261
India (b)—						
Bullion	44,000	33,070	7,901	6,646	6,130	n.a.
Malaysia (West)—						
Bullion	n.a.	n.a.	n.a.	2,500	300	732
Sarawak—						
Bullion	—	15	1,051	88	15	58
Singapore—						
Bullion	3,800	7,800	9,300	1,400	2,000	7,000
Australia (a)—						
Matte	25,203	5,635	—	—	—	—
Bullion	64,749	93,876	102,906	89,484	98,684	107,001
Beaten, rolled or drawn	5,429	12,850	11,529	2,740	n.a.	n.a.
New Zealand—						
Bullion	71,901	(a) 77,423	n.a.	n.a.	n.a.	n.a.
Beaten, rolled or drawn	871,608	(a) 20,965	(a)(f) 8,056	(a) 25,025	(a) 25,817	(a) 18,475
Irish Republic—						
Bullion	—	—	216,981	8,430	37,825	41,724
OTHER COUNTRIES						
Austria—						
Bullion	1,893,000	6,086,000	2,090,000	3,199,000	3,778,000	3,273,000
Belgium-Luxemburg						
E.U.—						
Bullion and scrap	6,406,000	6,768,000	7,298,000	7,588,000	14,043,000	10,198,200
Denmark—						
Bullion	1,122,000	665,000	678,000	812,000	825,000	546,241
Beaten, rolled or drawn	2,201,000	2,385,000	3,324,000	3,625,000	3,353,000	3,628,211
Finland—						
Bullion, etc.	15,000	859,000	340,000	404,000	1,323,000	1,876,000

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

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

(c) Including anodes.

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

(e) Including partly worked.

(f) Excess of re-exports.

IMPORTS OF SILVER (cont.)

Fine troy ounces

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
France—						
Bullion and scrap ..	18,813,000	24,732,000	27,822,000	22,061,000	27,571,000	18,578,242
Beaten, rolled or drawn	287,000	810,000	1,000,000	1,091,000	1,353,000	1,530,665
Germany (Federal)—						
Bullion	39,554,000	40,895,000	45,180,000	55,463,000	45,169,000	47,720,000
Italy—						
Bullion and scrap ..	12,560,395	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Netherlands—						
Bullion and scrap ..	4,600,000	3,326,000	3,039,000	5,098,000	4,316,500	1,513,400
Beaten, rolled or drawn	775,000	814,000	1,399,000	3,397,000	1,419,000	2,056,700
Norway—						
Bullion	830,000	629,000	1,105,000	1,726,000	1,234,000	1,051,000
Beaten, rolled or drawn	1,282,000	867,000	1,491,000	1,540,000	1,846,000	1,978,000
Portugal—						
Bullion and scrap ..	1,283,000	1,021,000	964,000	578,000	316,000	908,000
Beaten, rolled and drawn	90,000	45,000	58,000	129,000	98,000	74,000
Spain	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	6,438,668	4,816,149
Sweden—						
Bullion	386,000	450,000	450,000	510,000	482,000	386,000
Switzerland—						
Bullion	6,122,000	10,266,000	11,175,000	4,190,000	17,762,000	18,636,000
South Africa—						
Bullion	—	<i>n.a.</i>	1,000	94,494	142,465	153,248
Guatemala—						
Bullion	311,000	2,500	20,000	1,500	2,200	800
United States—						
Ore and base bullion ..	37,168,000	41,660,000	43,146,000	47,830,864	36,288,344	25,642,000
Refined bullion ..	39,191,000	17,402,000	8,528,000	6,878,106	27,040,450	29,878,000
Brazil—						
Bullion	1,076,000	1,195,000	1,512,000	734,000	970,000	901,000
Colombia—						
Bullion and scrap ..	19,000	50,000	56,000	66,000	59,000	13,000
Japan—						
Bullion and scrap ..	(a)3,402,000	3,627,000	9,937,000	4,789,000	7,032,000	10,157,000
Lebanon—						
Bullion and scrap ..	89,200	42,700	47,400	79,000	760,400	46,900
Turkey—						
Bullion, etc. .. .	64,000	6,000	7,000	3,000	19,400	48,000

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

STRONTIUM MINERALS

PRODUCTION OF STRONTIUM MINERALS

Long tons

Producing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Celestite	6,532	9,019	17,033	9,549	9,405	6,680
Pakistan (b)—						
Celestite	288	379	265	444	527	<i>n.a.</i>
OTHER COUNTRIES						
Italy—						
Celestite.. ..	591	646	450	630	588	650
Mexico (a)—						
Celestite.. ..	4,202	6,092	4,815	3,076	6,202	2,788
Argentina—						
Celestite.. ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	589	364	<i>n.a.</i>

Strontium minerals are also known to have been produced in Germany, Poland and the U.S.S.R.

(a) Exports.

(b) West Pakistan.

EXPORTS OF STRONTIUM MINERALS, ETC.

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Celestite	3,523	9,437	15,234	5,441	7,383	3,863
OTHER COUNTRIES						
France—						
Oxide	2	2	69	2	—	5
Italy—						
Strontianite and celestite	90	89	132	97	117	118
Mexico—						
Celestite.. ..	4,202	6,092	4,815	3,076	6,202	2,788

IMPORTS OF STRONTIUM MINERALS, ETC.

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
United States—						
Strontianite and celestite	6,687	14,493	19,301	8,697	10,283	5,011
Strontium compounds..	—	4	6	7	<i>n.a.</i>	7

SULPHUR
(see also Pyrites)
PRODUCTION OF SULPHUR

Long tons

Producing Country and Description	Estimated Sulphur Content						1967
	1962	1963	1964	1965	1966	1967	
COMMONWEALTH COUNTRIES							
United Kingdom—							
Sulphur content of zinc concentrates	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Spent oxide	n.a.	n.a.	n.a.	93,049	87,980	81,101	n.a.
Anhydrite (a)	n.a.	n.a.	n.a.	203,895	204,656	237,641	n.a.
Other (b)	n.a.	n.a.	n.a.	47,992	39,712	45,967	n.a.
Canada—							
Smelter gas	n.a.	n.a.	n.a.	397,105	446,730	430,905	n.a.
Hydrogen sulphide (g) (f)	n.a.	n.a.	n.a.	1,846,780	1,822,793	2,073,413	n.a.
Trinidad (f)	7,157	6,629	5,322	3,723	n.a.	n.a.	n.a.
Australia—							
Sulphur content of:							
zinc concentrates	n.a.	n.a.	n.a.	193,447	203,555	219,826	n.a.
lead concentrates	n.a.	n.a.	n.a.	60,500	57,696	56,490	n.a.
Spent oxide	6,838	397	—	—	—	—	—
OTHER COUNTRIES							
Austria—							
Recovered sulphur	—	—	6,000	6,000	6,000	6,000	n.a.
Belgium—							
By-product sulphur	2,000	5,000	5,000	3,500	n.a.	n.a.	n.a.
Bulgaria (c)	6,000	6,000	7,000	10,000	9,000	12,000	n.a.
France—							
Sulphur (d)	1,325,533	1,386,280	1,486,800	1,497,200	1,516,111	1,610,000	n.a.
Finland (e)	—	37,610	67,063	72,606	72,478	75,000	(e) 75,000
Germany (Federal)—							
Refined sulphur	89,234	84,949	76,602	75,412	82,476	104,071	104,071
Germany (East)—							
Sulphur	118,559	117,980	123,081	122,835	125,681	121,339	121,339

(a) For sulphuric acid manufacture only.
 (b) Including sulphur recovered from petroleum refineries.
 (c) Sulphur recovered from pyrites or other sulphide ores.
 (d) Recovered from natural gas.
 (e) Estimated.

(f) Recovered from petroleum refineries.
 (g) Sales.
 (h) United States Bureau of Mines' estimate.
 (i) Recovered from natural gas and nickel sulphide.

PRODUCTION OF SULPHUR (cont.)

Long tons

Producing Country and Description	Estimated Sulphur Content						
	1962	1963	1964	1965	1966	1967	1967
OTHER COUNTRIES (cont.)							
Italy—							
Sulphur rock ..	1,049,354	968,867	667,773	r 638,822	582,047	480,509	n.a.
Fused (e) ..	53,454	41,133	28,472	r 15,824	13,834	9,681	n.a.
Ground sulphur rock (c) ..	29,122	28,035	23,033	r 24,041	18,160	14,355	n.a.
Netherlands (i) ..	31,000	34,000	28,400	26,500	(d)39,000	n.a.	n.a.
Norway (i) ..	45,204	—	—	—	—	—	—
Poland—							
Native sulphur ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	711,000
Portugal (i) ..	6,677	3,000	—	—	—	—	—
Spain—							
Refined sulphur (h) ..	41,836	68,036	75,451	r 42,810	27,819	42,120	42,120
Sweden—							
Sulphur ..	29,900	25,900	27,009	21,082	9,842	n.a.	n.a.
U.S.S.R. (d)—							
Native sulphur ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
By-product sulphur ..	370,000	400,000	400,000	420,000	420,000	450,000	1,050,000
Egypt—							
Native sulphur ..	30,561	4,675	—	—	—	—	—
By-product sulphur (a) ..	2,039	2,363	2,427	3,790	11,490	8,839	8,839
South Africa—							
By-product sulphur (a) ..	1,913	1,981	5,701	7,102	(d) 6,300	(d) 9,000	—
Mexico—							
Crude sulphur (f) ..	1,350,375	1,456,656	1,635,767	1,481,236	1,611,446	1,793,085	1,793,085
Sulphur ore (g) ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Refined sulphur (e) ..	46,545	43,308	36,284	45,984	38,160	47,577	23,542
Netherlands Antilles—							
By-product sulphur (a) ..	n.a.	n.a.	26,000	25,000	n.a.	n.a.	n.a.
United States—							
Crude sulphur (f) ..	4,984,578	4,881,512	5,228,207	6,116,273	7,001,360	7,014,448	7,014,448
Sulphur ore (g) ..	162,186	1,371	794	2,592	557	568	284
Smelter gas (b) ..	1,088,397	1,089,523	1,119,976	r 1,188,314	1,297,184	1,114,881	364,477

(a) Recovered from petroleum refineries.

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

(c) Derived from sulphur rock above.

(d) United States Bureau of Mines' estimate.

(e) Recovered from natural gas.

(f) Frasch-process mines.

(g) Other mines.

(h) Mainly recovered from pyrites.

(i) Sulphur recovered from pyrites or other sulphide ores.

PRODUCTION OF SULPHUR (cont.)

Long tons

Producing Country and Description	1962-1967						Estimated Sulphur Content					
	1962	1963	1964	1965	1966	1967	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES												
<i>(cont.)</i>												
United States (cont.)—												
By-product sulphur (i) ..	902,124	949,567	1,024,649	1,219,312	1,243,960	1,270,289	899,598	946,753	1,021,358	1,215,168	1,240,386	1,267,955
Hydrogen sulphide and liquid sulphur dioxide (i)	115,670	136,509	143,689	162,668	161,962	157,262	97,787	115,826	123,474	138,660	133,859	134,198
Argentina—												
Refined sulphur ..	26,376	22,141	21,955	23,391	29,942	32,278	26,376	22,141	21,955	23,391	29,942	32,278
Bolivia (f)—												
Refined sulphur ..	7,247	9,793	10,635	9,305	56,554	49,513	7,247	9,793	10,635	9,305	56,554	49,513
Chile—												
Smelter gases, etc. (g) ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	8,084	7,700	15,427	5,396	11,277	11,995
Refined sulphur ..	63,226	40,271	40,496	77,720	36,694	44,988	62,900	40,100	40,300	77,300	36,500	44,800
Colombia—												
Refined sulphur ..	10,046	13,000	11,942	18,114	20,649	n.a.	10,046	13,000	11,942	18,114	20,649	n.a.
Ecuador—												
Native sulphur ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	—	r	504	r	325	267
China (c)—												
Native sulphur ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	120,000	120,000	120,000	120,000	120,000	120,000
Recovered sulphur (d) ..	130,000	130,000	130,000	130,000	130,000	130,000	130,000	130,000	130,000	130,000	130,000	130,000
Formosa—												
Refined sulphur ..	7,462	7,945	9,170	6,772	6,860	6,387	7,462	7,945	9,170	6,772	6,860	6,387
Indonesia—												
Native sulphur ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	917	1,033	1,668	r	1,268	(c) 1,800
Iran—												
Native sulphur ..	n.a.	(h)10,500	n.a.	n.a.	n.a.	n.a.	n.a.	4,000	n.a.	n.a.	n.a.	n.a.
By-product sulphur (a)(c)	15,000	20,000	20,000	20,000	20,000	n.a.	15,000	20,000	20,000	20,000	20,000	n.a.
Japan—												
Refined sulphur (e) ..	220,438	219,094	237,412	210,000	225,000	250,000	220,438	219,094	237,412	210,000	225,000	250,000
By-product sulphur (a) ..	8,549	11,429	18,499	35,988	52,187	61,201	8,549	11,429	18,499	35,988	52,187	61,201
Philippine Republic (b) ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	50	47	68	47	14	24
Turkey—												
Refined sulphur ..	18,246	19,123	21,800	23,000	22,300	25,000	18,228	19,104	21,800	23,000	22,300	25,000

(e) From sulphur rock and sulphide ores.

(f) Exports.

(g) Sulphur contained in sulphuric acid.

(h) Year ended March 20 of year following that stated.

(i) Produced in treatment of industrial gases.

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.

EXPORTS OF SULPHUR

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom	1,738	2,045	2,162	1,950	1,484	1,851
Canada	357,166	732,972	1,155,881	1,337,453	1,249,193	1,583,635
Singapore—						
Crude	32	45	27	24	38	2,081
Refined	110	140	182	193	161	805
Australia—						
Zinc concentrates (S content) (a)	65,000	66,000	57,000	54,000	58,000	74,000
New Zealand	—	(b) 1	(b) 5	—	(b) 2	(b) 2
OTHER COUNTRIES						
Belgium-Luxemburg E.U.—						
Crude	3,752	422	283	371	—	2,057
Refined	5,529	7,674	7,438	6,658	9,298	8,030
France—						
Crude	534,930	993,977	1,017,792	898,815	868,030	1,012,571
Unrefined ground	2,707	2,413	1,638	2,316	2,127	4,309
Refined lump	767	492	504	736	735	2,035
Flowers of sulphur	5,346	6,527	8,274	8,797	7,697	3,076
Precipitated sulphur	21	38	—	28	5	2
Germany (Federal)	21,839	24,751	25,700	26,674	66,467	513,622
Germany (East)	41,060	20,316	11,702	5,914	7,905	11,399
Greece	—	4,390	6,052	14,377	20,359	7,674
Italy—						
Crude	6,082	75	3	—	20	49
Refined	8,746	7,461	4,303	2,131	1,415	2,102
Flowers of sulphur	297	436	286	259	305	326
Precipitated sulphur	30	21	3	37	13	7
Netherlands—						
Crude	5,042	6,833	4,388	3,002	1	2,480
Refined	38	6	37	3	49	25
Norway	32,251	7,287	425	—	2,053	—
Poland	n.a.	122,337	148,152	237,202	267,435	n.a.
Portugal	317	28	152	637	933	2,060
Spain—						
Refined	—	487	271	398	343	245
Sweden	330	187	189	331	89	24
Switzerland	—	—	—	—	294	224
U.S.S.R.	106,400	102,100	144,800	151,800	216,000	277,153
South Africa	—	—	115	449	127	2,859
Mexico	1,309,975	1,482,983	1,811,600	1,515,513	496,156	1,611,394
United States—						
Crude	1,537,419	1,603,438	1,920,392	2,624,052	2,326,103	2,042,079
Refined and flowers of sulphur	16,567	9,199	7,700	27,683	47,339	149,825
Bolivia	7,247	9,793	10,635	9,305	57,334	n.a.
Chile	631	—	246	—	n.a.	n.a.
Japan	301	133	154	188	5,717	1,947
Turkey	n.a.	n.a.	n.a.	n.a.	4,114	n.a.

(a) Estimated amount recoverable.

(b) Years ended June 30 of that stated.

IMPORTS OF SULPHUR

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Sulphur	495,776	543,047	709,651	786,079	753,896	701,040
Wastes and residues	16,986	12,751	—	9,448	459	15,360
Malta—						
Crude	—	—	2	31	2	20
Flowers of sulphur	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	241	124	233
	(£11,539)	(£12,347)	(£13,531)	(£9,128)	(£7,093)	(£11,599)
Kenya	287	365	1,388	1,450	1,419	270
Mauritius	36	39	1	104	111	83
Nigeria	<i>n.a.</i>	—	17	190	74	1,290
Rhodesia (a)	220	118	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Tanzania	328	272	239	266	550	270
Uganda	2,676	1,699	1,539	5,815	5,894	2,746
Zambia—						
Crude	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	4,987	3,021	2,836
Flowers of sulphur	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	34	21	23
Canada	174,125	134,497	(b) 133,542	(b) 144,822	(b) 129,879	(b) 111,412
Jamaica	16	1,103	1,004	1,006	1,009	3,477
Trinidad and Tobago	9,753	11,130	16,415	17,132	16,963	14,471
Guyana	1	<i>n.a.</i>	5	5	6	3
Ceylon	958	4,055	2,562	1,907	2,056	1,631
Cyprus	1,707	1,828	1,486	1,833	1,992	1,467
Hong Kong	1,268	1,511	422	376	709	1,605
India	244,114	256,896	237,352	278,774	283,048	583,281
Malaysia (West)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	5,063	5,372	4,061
Pakistan	5,179	4,766	16,948	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Singapore—						
Crude	46	13	1,002	59	2,000	—
Refined	198	233	184	1,343	1,346	782
Australia	229,195	222,527	376,639	387,868	434,045	513,962
New Zealand	104,902	146,956	(c) 174,202	(c) 204,846	(c) 211,548	(c) 187,626
Irish Republic	46,070	46,845	53,798	52,532	85,288	97,851
OTHER COUNTRIES						
Austria	73,165	84,906	88,731	112,218	80,778	87,776
Belgium-Luxemburg E.U.—						
Crude	167,455	176,660	210,204	269,824	215,218	220,373
Refined	226	330	510	403	528	371
Czechoslovakia	131,000	171,000	186,000	222,000	234,000	<i>n.a.</i>
Denmark	9,744	12,337	10,791	13,612	10,318	6,595
Finland	82,571	58,589	66,329	71,245	76,622	50,426
France—						
Crude	144,801	112,824	210,593	259,615	222,468	231,002
Unrefined ground	225	118	156	119	59	120
Refined lump	153	264	618	255	317	265
Precipitated	50	38	77	58	39	95
Germany (Federal)	216,554	288,081	398,384	478,168	366,008	319,482
Greece	9,312	20,461	45,712	47,302	58,017	46,705
Hungary	31,053	124,693	162,992	156,000	149,000	165,347
Italy	129	156	60,777	72,268	84,400	75,996
Netherlands—						
Crude	120,697	133,317	163,227	212,939	196,318	275,705
Refined	1,271	1,446	1,570	1,642	1,796	1,687
Norway	14,085	35,009	45,966	57,097	40,958	37,298
Poland	<i>n.a.</i>	26,700	19,200	6,889	<i>n.a.</i>	<i>n.a.</i>
Portugal	20,614	31,597	37,552	53,863	33,732	18,517
Spain	6,518	19,536	39,054	35,483	37,659	63,204

(a) Figures for years 1962 and 1963 relate to Rhodesia and Nyasaland.

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

(c) Years ended June 30 of that stated.

IMPORTS OF SULPHUR (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Sweden	81,370	84,615	126,086	157,226	176,210	121,921
Switzerland—						
Crude and ground	61,497	63,600	52,111	79,912	54,414	41,446
Flowers of sulphur	212	187	216	251	239	184
U.S.S.R.	31,600	83,800	143,500	24,800	26,900	45,766
Yugoslavia	11,426	12,473	18,187	15,468	14,566	21,364
Angola	364	236	485	397	560	460
Canary Islands—						
Crude	6,498	687	1,257	923	7,483	6,291
Refined, etc. .. .						
Egypt	8,444	17,935	5,977	5,028	15,960	n.a.
Malagasy Republic	3	18	29	22	20	22
Morocco—						
Crude	7,752	2,894	4,581	9,851	9,981	5,945
Unrefined, ground	1,153	984	966	843	644	563
Refined	75	156	92	117	101	140
Flowers of sulphur	2,540	2,872	3,492	2,632	3,023	1,604
Precipitated .. .	12	24	46	34	—	—
Mozambique	778	482	583	425	659	n.a.
South Africa .. .	116,393	122,151	142,110	191,008	181,838	201,336
Tunisia—						
Crude and unrefined	4,962	9,637	21,152	72,997	126,913	122,195
Refined and flowers of sulphur	1,623	1,019	203	886	1,280	788
Costa Rica	10	132	40	n.a.	59	15
Cuba	66,501	45,061	50,434	n.a.	n.a.	n.a.
Guatemala	104	35	2	—	98	14
Mexico	145	151	340	422	244	240
Netherlands Antilles	—	3,407	1,959	—	—	—
Nicaragua	8,221	6,724	275	50	308	55
Salvador	16	3,420	43	39	5,444	6,181
United States .. .	1,049,433	1,813,338	1,462,211	1,465,093	1,514,032	1,474,182
Argentina—						
Crude	23,856	13,674	44,310	44,367	34,829	20,606
Refined and flowers of sulphur	71	80	165	169	150	91
Bolivia	11	58	n.a.	4	18	46
Brazil—						
Crude	150,351	173,814	138,577	189,299	164,331	199,631
Refined	182	—	—	558	524	2,135
Precipitated .. .	13	35	23	3	12	5
Chile	9,213	7,759	5,794	22,408	n.a.	n.a.
Colombia	4,773	3,346	1,537	3,138	64	1,059
Ecuador	22	87	134	148	n.a.	n.a.
Peru	15,515	12,745	12,062	15,757	13,043	13,941
Uruguay	n.a.	n.a.	n.a.	8,441	9,291	10,059
Venezuela	10,390	10,284	22,381	33,325	3,451	26,447
Burma	1,468	402	513	1,234	n.a.	n.a.
Formosa	15,252	39,775	86,535	116,788	68,210	n.a.
Indonesia	8,310	n.a.	n.a.	n.a.	n.a.	n.a.
Iran (a)	15,521	6,517	269	146	3,717	379
Iraq	1,370	2,402	1,344	n.a.	n.a.	n.a.
Israel	67,816	49,449	69,057	47,941	55,538	72,268
Japan	35	13,588	24,227	53,119	9,630	31
Jordan	1,556	2,787	2,319	1,169	2,050	1,765
Korea (South) ..	214	1,453	89	6,365	21,693	28,141
Lebanon	3,501	9,586	2,375	25,567	10,019	12,871
Philippine Republic	2,744	3,905	5,438	18,954	n.a.	n.a.
Syria	1,032	558	1,363	51	2,041	59
Thailand	3,746	6,644	9,288	5,128	10,998	8,272
Turkey	9	245	207	98	103	591

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

TALC
PRODUCTION OF TALC
(Including Steatite and Pyrophyllite)

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom ..	7,357	7,976	10,155	9,977	8,978	8,968
Rhodesia	20	19	14	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Swaziland—						
Pyrophyllite	3,484	2,725	1,964	905	1,426	589
Canada (c)	41,215	48,437	51,904	47,176	62,629	53,036
India—						
Steatite	102,286	119,069	131,706	154,000	145,000	127,900
Pyrophyllite	<i>n.a.</i>	<i>n.a.</i>	5,975	11,641	8,163	4,856
Pakistan (f)	1,102	1,840	2,519	2,799	3,231	<i>n.a.</i>
Australia—						
Talc	14,060	13,106	15,695	19,719	17,327	19,897
Pyrophyllite	931	837	381	—	—	—
OTHER COUNTRIES						
Austria	74,574	64,607	70,737	74,703	75,098	76,505
Finland	6,329	6,649	5,900	6,900	5,000	<i>n.a.</i>
France	184,000	155,624	202,156	236,493	220,537	202,000
Germany (Federal) ..	27,152	24,069	30,004	30,249	32,393	32,772
Greece	2,377	2,701	3,705	r 3,401	4,430	3,843
Italy	127,554	137,134	131,716	r 119,537	110,899	116,596
Norway	89,321	71,908	75,880	75,000	77,113	78,043
Portugal	321	531	787	699	709	138
Spain	27,287	27,069	26,384	27,378	28,596	<i>n.a.</i>
Sweden	17,144	18,478	16,400	18,300	18,200	23,900
U.S.S.R. (a)	300,000	345,000	345,000	350,000	350,000	364,000
Egypt	6,029	4,714	16,555	39,002	29,170	<i>n.a.</i>
South Africa (b) ..	12,429	6,755	6,512	9,096	8,509	8,992
Mexico	(a) 4,000	(a) 4,000	(a) 4,000	(a) 4,000	(a) 4,000	<i>n.a.</i>
United States—						
Talc	577,215	602,982	673,072	657,687	687,324	700,942
Pyrophyllite	111,828	115,195	121,525	112,737	111,787	104,872
Argentina	28,708	27,618	24,022	24,693	29,378	24,996
Brazil	37,695	34,364	47,355	56,738	28,412	28,895
Chile	1,871	2,541	2,716	1,465	2,233	<i>n.a.</i>
Colombia	650	650	718	400	1,176	<i>n.a.</i>
Paraguay	—	—	46	138	59	71
Peru—						
Talc	281	169	<i>n.a.</i>	<i>n.a.</i>	} 3,774	<i>n.a.</i>
Pyrophyllite	1,411	2,394	3,535	4,126		
Uruguay	1,688	1,688	2,090	2,337	2,094	2,596
Afghanistan (d) .. .	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Burma	<i>n.a.</i>	<i>n.a.</i>	<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	13,197	14,553	16,713	14,988	28,298	40,662
Iran (e)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Talc	56,333	66,976	95,962	91,724	} 1,091,460	1,347,913
Pyrophyllite	523,713	776,373	942,116	900,159		
Korea (South)—						
Talc	27,920	31,880	43,207	35,168	52,763	55,391
Pyrophyllite	17,826	31,309	45,429	48,141	53,826	65,540
Korea (North) (a) ..	20,000	29,000	39,000	49,000	49,000	49,000
Philippine Republic ..	116	93	96	584	627	437
TOTAL*	2,620,000	2,950,000	3,370,000	3,390,000	3,470,000	3,770,000

*Excluding talc known to have been produced in Roumania.

(a) United States Bureau of Mines' estimate.

(b) In addition the following amounts of wonderstone were produced (long tons):
1962—1,650; 1963—1,826; 1964—1,677; 1965—3,569; 1966—6,172; 1967—4,546.

(c) Shipments. (d) Estimated. (e) Years ended March 20 of year following that stated.

(f) West Pakistan.

EXPORTS OF TALC

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Canada	(a) 2,100	(a) 2,000	(a) 2,300	(a) 3,100	<i>n.a.</i>	<i>n.a.</i>
India	15,418	14,015	11,771	10,376	10,240	10,107
Malaysia (West)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	14	20	46
Singapore	1,210	876	877	335	458	692
Australia	4,988	4,025	5,181	6,778	7,634	8,648
OTHER COUNTRIES						
Austria	55,008	50,803	54,915	59,535	59,601	60,772
Belgium-Luxemburg						
E.U.	8	37	91	30	1,487	8,351
France	44,113	48,840	50,468	50,372	43,414	44,280
Germany (Federal)	1,041	1,187	1,196	1,201	1,128	1,515
Greece	116	194	30	173	<i>n.a.</i>	<i>n.a.</i>
Italy	50,074	46,428	42,963	42,384	38,827	31,851
Netherlands	193	159	144	344	207	140
Norway	63,162	65,508	73,581	68,480	73,621	74,907
Portugal	5	6	87	12	33	83
Sweden	1,968	1,435	4,131	5,001	3,978	3,762
Switzerland	1,091	1,507	1,256	1,256	527	1,707
Egypt	<i>n.a.</i>	1,012	1,619	1,280	1,235	<i>n.a.</i>
South Africa	<i>n.a.</i>	<i>n.a.</i>	632	167	347	274
Mexico	—	2	6	40	18	40
United States	41,910	50,431	66,070	62,140	62,837	59,103
Japan	1,687	2,975	629	4,760	982	752
Korea (South)—						
Talc	249	17,293	26,482	19,120	40,436	56,948
Turkey	50	<i>n.a.</i>	20	1	46	16

(a) Estimated.

IMPORTS OF TALC

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Unground	624	} 44,131	47,832	45,301	47,714	50,149
Ground	42,515					
Canada	21,561	24,589	r 28,212	24,873	22,248	23,645
Ceylon	2,191	1,885	1,007	1,302	1,153	1,633
Hong Kong	—	—	645	1,009	1,181	1,371
Malaysia (West)	n.a.	n.a.	n.a.	1,890	1,483	2,326
Singapore	1,860	3,612	2,961	1,759	1,359	2,982
Australia (a)	1,468	3,155	2,631	2,340	(c) 1,897	2,228
New Zealand	n.a.	(a) 1,254	(a) 1,315	(a) 1,311	(a) 1,750	(a) 1,392
OTHER COUNTRIES						
Austria	1,759	1,100	883	1,769	1,469	1,204
Belgium-Luxemburg						
E. U.	14,846	15,829	16,690	15,986	35,562	26,401
Denmark	11,606	10,904	12,966	13,072	13,539	13,839
Finland	2,799	2,542	3,766	4,392	4,915	4,841
France	6,899	8,543	7,635	6,784	7,549	8,522
Germany (Federal)	50,038	49,264	59,769	68,212	67,349	60,330
Greece	83	61	405	68	179	174
Italy	8,665	12,971	12,115	11,098	12,305	14,196
Netherlands	11,822	13,430	13,498	14,032	14,272	14,457
Norway	2,718	3,621	3,037	4,009	4,812	4,339
Poland	n.a.	8,600	10,200	17,801	14,500	10,109
Portugal	1,180	1,358	1,912	1,911	1,895	2,279
Spain	402	1,290	858	2,150	2,481	2,408
Sweden	10,428	12,867	14,457	16,487	18,329	18,328
Switzerland	15,725	15,186	13,098	13,652	12,535	12,537
U.S.S.R.	73,600	59,000	71,500	66,400	59,300	56,297
Yugoslavia	348	670	6,602	9,733	1,578	658
Egypt	6	n.a.	n.a.	n.a.	n.a.	n.a.
Malagasy Republic	9	3	8	27	76	31
Morocco	1,644	1,865	1,450	1,217	1,592	774
South Africa	n.a.	n.a.	1,016	742	1,198	1,663
Tunisia	655	688	619	332	344	434
Costa Rica	83	133	103	137	116	201
Cuba	7,482	3,089	3,287	n.a.	n.a.	n.a.
Guatemala	121	114	116	174	114	232
Honduras	15	25	17	34	52	45
Mexico—						
Talc	23,501	31,122	39,361	34,215	46,520	32,423
Pyrophyllite	95	60	89	148	81	120
Salvador	66	53	98	74	124	133
United States	23,014	22,929	20,284	18,770	19,561	15,118
Argentina	74	70	190	148	227	499
Brazil	—	—	—	—	—	30
Chile	53	274	r 57	258	n.a.	n.a.
Colombia	1,111	991	981	971	931	947
Ecuador	86	164	169	173	n.a.	n.a.
Peru	493	602	732	955	795	917
Venezuela	1,741	1,914	2,733	2,954	2,936	3,383
Iran (b)	454	377	125	138	108	n.a.
Iraq	282	325	324	n.a.	n.a.	n.a.
Japan	r 40,816	r 45,722	r 59,798	r 52,828	75,739	93,313
Lebanon	148	218	217	226	167	287
Philippine Republic	1,710	2,684	2,531	2,610	n.a.	n.a.
Syria	491	44	581	485	767	167
Thailand	1,371	1,161	1,747	1,813	1,977	2,009
Turkey	179	279	93	217	71	137

(a) Years ended June 30 of that stated.

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

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

TANTALUM AND NIOBIUM MINERALS
PRODUCTION OF TANTALUM AND NIOBIUM MINERALS

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Kenya—						
Columbite	(375 lb.)	—	—	—	—	—
Nigeria—						
Tantalite	17	13	10	13	65	18
Columbite	2,264	2,011	2,339	2,548	2,221	1,919
Rhodesia—						
Tantalum concentrates	72	67	63	n.a.	n.a.	n.a.
Uganda—						
Tantalite and columbite	12	9	7	10	12	28
Canada—						
Niobium concentrates (Nb ₂ O ₅ content) ..	454	622	966	1,042	1,178	985
Malaysia (West)—						
Columbite	110	88	56	46	67	87
Australia—						
Tantalite and columbite	19	14	15	11	5	23
OTHER COUNTRIES						
Norway—						
Niobium concentrates(b)	344	377	320	148	—	—
Portugal—						
Tantalite and columbite	15	10	5	5	10	14
Congo Republic—						
Tantalite and columbite concentrates (d) ..	139	115	n.a.	n.a.	94	144
Ivory Coast—						
Tantalite and columbite	3	1	1	1	—	—
Malagasy Republic—						
Columbite	(a) 7	17	4	4	1	—
Mozambique—						
Tantalite-columbite ..	101	79	43	51	64	92
Microlite	51	71	139	84	78	69
Rwanda and Burundi—						
Tantalite and columbite concentrates (d) ..	38	12	154	n.a.	n.a.	n.a.
South Africa—						
Tantalite-columbite ..	4	29	6	3	2	4
South West Africa—						
Tantalum and niobium concentrates	5	2	1	1	1	n.a.
Argentina (f)—						
Tantalite	2	2	—	—	4	1
Brazil—						
Tantalite-columbite	137	129	24	12	4	55
Pyrochlore concentrates	100	—	318	1,177	4,700	4,543
French Guiana—						
Tantalite and columbite	—	2	1	—	1	—
TOTAL (c) ..	4,300	4,320	5,500	6,300	9,500	8,900

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

(a) Exports.

(b) 55.3% Nb₂O₅ in 1961; 57.9% Nb₂O₅ in 1962; 56.2% Nb₂O₅ in 1963; 53.7% Nb₂O₅ in 1964; 56% Nb₂O₅ in 1965.

(c) Total of tantalum and niobium concentrates produced in the countries listed above.

(d) Including tantalite-columbite content of tin-tantalite-columbite.

(e) 25% Nb₂O₅.

(f) Imports into the United States.

EXPORTS OF TANTALUM AND NIOBIUM MINERALS, ETC.

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ferro-niobium and ferro-niobium-tantalum ..	68	173	153	212	196	175
Nigeria—						
Tantalite	13	20	11	8	11	15
Columbite	2,266	1,599	3,132	2,776	2,325	2,085
Rhodesia (d)—						
Tantalum concentrates	74	87	74	17	<i>n.a.</i>	<i>n.a.</i>
Uganda—						
Tantalite and columbite	9	6	6	15	12	14
Malaysia (West)—						
Columbite	98	65	6	52	82	57
Australia (a)—						
Tantalite and columbite	16	12	20	47	7	27
OTHER COUNTRIES						
Germany (Federal)—						
Tantalum metal, etc. ..	(24,900lb.)	(13,200lb.)	(9,500lb.)	(11,500lb.)	(21,400lb.)	(29,900lb.)
Niobium metal, etc. ..	(4,200lb.)	(1,000lb.)	(1,500lb.)	(12,500lb.)	(2,900lb.)	(3,700lb.)
Portugal—						
Tantalite and columbite	42	31	25	20	29	25
Norway—						
Niobium concentrates ..	264	281	308	165	—	—
Congo Republic (c)—						
Tantalite and columbiteb	130	140	50	120	500	<i>n.a.</i>
Malagasy Republic—						
Columbite	7	26	16	3	1	—
Mozambique—						
Columbite	101	136	203	74	<i>n.a.</i>	<i>n.a.</i>
South Africa—						
Tantalite	10	21	—	6	11	4
South West Africa—						
Tantalite	4	1	—	1	—	<i>n.a.</i>
United States—						
Tantalum concentrates	62	25	89	127	73	34
Niobium concentrates	10	21	153	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Tantalum metal, etc. ..	(18,078lb.)	(44,390lb.)	(32,489lb.)	(35,821lb.)	(21,722lb.)	(48,790lb.)
Niobium metal, etc. ..	(16,827lb.)	(14,276lb.)	(4,674lb.)	(4,217lb.)	(4,101lb.)	<i>n.a.</i>
Tantalum powder ..	(14,292lb.)	(14,146lb.)	(32,217lb.)	(9,621lb.)	(51,354lb.)	(157,325lb.)
Brazil—						
Tantalite	144	103	81	163	157	202
Columbite	17	19	11	39	58	100
Pyrochlore concentrates	—	753	67	1,313	3,736	2,682

(a) Years ended June 30 of that stated.

(b) Estimated.

(c) Including Rwanda and Burundi.

(d) Figures for 1962 and 1963 relate to Rhodesia and Nyasaland.

IMPORTS OF TANTALUM AND NIOBIUM MINERALS, ETC.

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom— Tantalum and niobium ores and concentrates	485	745	1,439	1,635	1,558	1,053
Tantalum metal ..	(5,599lb.)	(8,394lb.)	(10,940lb.)	(12,353lb.)	(33,040lb.)	(46,411lb.)
OTHER COUNTRIES						
France— Tantalum and niobium minerals ..	88	71	148	136	422	376
Germany (Federal)— Tantalum and niobium minerals ..	(b) 350	(b) 650	<i>n.a.</i>	1,440	1,383	1,003
Tantalum metal, etc. ..	(13,700lb.)	(6,600lb.)	(11,500lb.)	(26,000lb.)	(40,100lb.)	(19,740lb.)
United States— Tantalum concentrates	541	422	438	534	957	748
Niobium concentrates ..	2,255	2,628	2,054	2,184	4,142	3,318
Tantalum metal ..	(1,788lb.)	(1,597lb.)	(3,491lb.)	(26,162lb.)	(47,748lb.)	(54,887lb.)
Niobium metal (a) ..	(9,489lb.)	(1,427lb.)	(3,792lb.)	(9,817lb.)	(4,431lb.)	<i>n.a.</i>
Japan— Niobium minerals ..	11	76	300	279	553	465
Tantalum ores and concentrates ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	20,883	6,891	1,089
Tantalum metal ..	(9,372lb.)	(13,065lb.)	(261,903lb.)	(302,884lb.)	(8,682lb.)	(241,677lb.)

(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	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom ..	1,173	1,286	1,254	1,263	1,284	1,261
Nigeria	8,211	8,725	8,721	9,535	9,299	9,340
Rhodesia	706	525	536	(a) 510	(a) 600	(a) 600
Swaziland	5	4	2	2	—	—
Tanzania	214	242	283	255	346	353
Uganda	69	165	217	178	120	104
Zambia	5	1	9	16	3	—
Canada (b) .. .	291	414	157	168	317	237
Malaysia (West) ..	58,603	59,948	60,004	63,669	68,886	72,121
Australia	2,715	2,860	3,642	3,849	4,807	5,414
TOTAL	71,992	74,170	74,825	79,400	85,600	89,400
OTHER COUNTRIES						
France	314	272	486	447	421	447
Germany (Eastern) (g) ..	1,000	1,000	1,000	1,000	1,000	1,000
Portugal	679	718	676	557	600	645
Spain	231	158	90	r 111	131	115
Cameroun	20	25	39	38	42	33
Congo Republic .. .	6,875	6,883	5,108	6,324	5,100	4,664
Congo (Republic of) ..	46	43	35	44	44	53
Morocco	11	9	14	r 15	(a) 12	(a) 12
Niger	41	55	51	54	57	56
Rwanda and Burundi .. (a)	1,325	1,271	r 1,445	r 1,520	1,382	(a) 1,422
South Africa	1,421	1,530	1,586	1,671	1,745	1,763
South West Africa .. .	369	443	474	416	687	(f) 720
Mexico	576	1,055	1,206	503	789	588
United States	n.a.	n.a.	65	47	97	n.a.
Argentina	231	225	343	497	458	802
Bolivia (c)	20,366	22,499	22,960	23,828	25,825	27,283
Brazil	731	1,153	729	1,673	n.a.	(f) 1,200
Peru (e)	11	21	36	49	37	68
Burma	1,041	914	568	464	370	259
China (d) (f) .. .	28,000	28,000	25,000	25,000	22,000	20,000
Indonesia	17,310	12,947	16,345	14,699	12,568	13,601
Japan	859	857	796	838	970	1,170
Korea (South) .. .	—	—	—	—	—	76
Laos	367	(a) 400	(a) r 336	(a) r 284	(a) 300	(a) 300
Thailand	14,679	15,585	15,597	19,048	22,565	22,490
TOTAL*	97,000	96,000	95,000	99,000	99,000	99,000
WORLD'S TOTAL* ..	169,000	170,000	170,000	178,000	185,000	188,000

*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	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom ..	18,749	17,444	16,849	16,494	17,499	23,317
Nigeria	8,034	9,050	8,749	9,369	8,225	9,131
Rhodesia	677	499	511	(b) 494	(b) 600	(b) 600
Malaysia (West) ..	82,073	84,001	71,351	72,469	71,049	76,328
Australia	2,704	2,626	3,021	3,179	3,640	3,594
TOTAL	112,237	113,620	100,481	102,000	101,000	113,000
OTHER COUNTRIES						
Belgium	9,507	8,280	6,804	5,227	6,472	6,070
Germany—						
Federal Republic ..	1,309	1,052	1,178	1,427	1,362	1,622
Eastern (d)	1,200	1,200	1,200	1,200	1,200	1,200
Netherlands	4,282	5,762	15,858	18,114	12,551	13,739
Portugal	766	663	589	603	556	592
Spain	909	1,505	1,774	1,678	2,954	1,523
Congo Republic ..	945	1,441	1,485	(b) 1,800	(b) 1,800	(b) 1,800
Morocco (b)	10	10	10	12	12	12
South Africa	821	937	1,016	962	822	658
Mexico	520	1,055	1,145	459	795	(c) 960
United States	(b) 5,500	(b) 1,500	(b) 3,900	3,098	3,825	3,048
Argentina (b)	120	120	120	120	120	120
Bolivia (a)	1,882	2,209	2,461	3,406	1,083	1,059
Brazil	1,835	2,051	1,478	1,545	1,211	494
China (c)	28,000	28,000	25,000	25,000	22,000	20,000
Indonesia (b)	2,000	2,000	1,800	1,800	1,510	1,481
Japan	1,822	1,612	1,485	1,610	1,836	1,666
Thailand	—	—	—	5,524	16,990	26,551
TOTAL*	61,000	59,000	67,000	73,000	77,000	83,000
WORLD'S TOTAL* ..	173,000	173,000	168,000	175,000	178,000	196,000

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

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

	Long tons		Long tons
1962	21,040	1965	25,076
1963	22,332	1966	25,349
1964	23,508	1967	22,667

(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	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Unwrought	7,156	8,450	6,443	6,682	6,003	9,377
do. alloys	2,333	2,656	2,995	2,601	3,565	3,127
Semi-manufactures (a)	468	334	514	937	648	730
Nigeria—						
Ore and concentrates ..	347	160	25	9	634	9
Unwrought	7,542	9,673	10,557	10,575	11,495	10,813
Rhodesia (c)—						
Ore and concentrates ..	31	—	54	71	<i>n.a.</i>	<i>n.a.</i>
Unwrought	549	463	473	399	<i>n.a.</i>	<i>n.a.</i>
Tanzania—						
Ore and concentrates ..	295	341	361	351	487	378
Uganda—						
Ore and concentrates ..	87	230	320	294	204	183
Zambia—						
Ore and concentrates ..	<i>n.a.</i>	<i>n.a.</i>	155	4	<i>n.a.</i>	<i>n.a.</i>
Canada—						
Concentrates						
(S <i>n content</i>)	287	800	329	216	337	326
Hong Kong—						
Scrap	65	10	—	19	1	6
Semi-manufactures	2	5	3	8	25	34
India (b)—						
Scrap	34	3	53	85	10	32
Malaysia (West)—						
Ore	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	798	1,254	1,176
Unwrought	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	73,287	71,410	73,528
Semi-manufactures (a)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	182	39	41
Australia—						
Ore and concentrates ..						
(S <i>n content</i>)	27	139	321	682	1,326	1,662
Unwrought	—	7	1	—	1	—
do. alloys	2	39	8	7	4	—
New Zealand—						
Scrap	<i>n.a.</i>	(d) 5,336	(d) 4,926	(d) 4,746	(d) 7	(d) 2
OTHER COUNTRIES						
Austria—						
Unwrought (a)	1	38	55	41	26	17
Belgium-Luxemburg						
E.U.—						
Unwrought	6,803	6,319	4,506	3,896	4,215	3,739
do. alloys	93	60	68	215	89	81
Scrap	166	342	317	223	174	124
Semi-manufactures (a)	296	359	209	179	239	37
Denmark—						
Unwrought	18	53	44	54	67	37
do. alloys	632	653	729	608	760	1,032
Scrap	—	4	—	336	—	32
Semi-manufactures (a)	19	29	31	38	27	48
France—						
Ore	465	371	643	642	560	524
Unwrought	18	35	70	75	89	53
do. alloys	137	53	124	155	138	104
Semi-manufactures (a)	130	103	61	81	38	54

*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 1962 and 1963 relate to Rhodesia and Nyasaland.

(d) Year ended June 30 of that stated.

EXPORTS OF TIN, ETC. (cont.)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (Federal)—						
Ore	84	81	81	66	59	46
Unwrought (a)	1,651	1,365	1,478	1,581	1,632	1,994
Scrap	3	111	59	78	30	81
Semi-manufactures (a)	82	129	120	168	171	182
Italy—						
Unwrought (a)	205	23	241	162	255	115
Semi-manufactures (a)	53	9	6	7	8	11
Netherlands—						
Unwrought	4,157	4,187	13,813	15,651	11,659	11,500
do. alloys	504	666	605	313	232	407
Scrap (a)	281	555	323	378	334	322
Semi-manufactures (a)	322	260	367	288	362	257
Norway—						
Unwrought (a)	271	234	292	239	238	238
Semi-manufactures (a)	2	—	4	4	5	2
Portugal—						
Ore	—	116	122	35	—	—
Unwrought	486	203	375	204	89	350
Spain—						
Unwrought	—	—	494	260	41	95
Sweden—						
Unwrought	24	3	37	81	79	21
do. alloys	213	121	96	74	65	49
Switzerland—						
Unwrought	10	18	36	43	52	24
Scrap	195	164	132	134	85	60
Semi-manufactures (a)	37	35	23	26	29	39
U.S.S.R.—						
Unwrought	500	700	—	7	7	6
Cameroun—						
Ore	120	36	76	78	<i>n.a.</i>	<i>n.a.</i>
Congo Republic (c)—						
Ore (b)	10,000	9,000	8,000	7,000	6,500	6,500
Unwrought	1,056	1,031	(b) 1,500	(b) 1,500	(b) 1,700	(b) 1,500
Congo (Republic of)—						
Ore	70	39	59	70	43	83
Niger—						
Ore	6	60	6	64	63	53
South Africa—						
Concentrates	1,422	1,730	978	1,125	943	1,079
South West Africa—						
Ore and concentrates	153	293	296	462	664	<i>n.a.</i>
United States—						
Unwrought (a)	335	1,544	2,726	2,606	1,866	2,050
Scrap (a)	4,342	4,975	4,844	1,133	7,012	2,775
Semi-manufactures (a)	646	887	1,049	221	221	182
Argentina—						
Ore	137	47	70	16	3	—
Tin-silver ore	1,374	1,384	1,749	2,190	3,219	4,117
Bolivia—						
Ores, concentrates, etc. (<i>Sn content</i>)	18,484	20,290	20,499	20,422	24,742	19,793
Unwrought	1,882	2,209	2,461	3,406	1,083	6,148
Peru—						
Concentrates (<i>Sn content</i>)	23	21	39	12	19	<i>n.a.</i>
Unwrought (<i>Sn content</i>)	7	6	—	77	33	<i>n.a.</i>
Burma—						
Ore and concentrates (<i>Sn content</i>)	1,412	1,467	720	301	124	64

(a) Including alloys.

(b) Estimated.

(c) Including Rwanda and Burundi.

EXPORTS OF TIN, ETC. (cont.)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES (cont.)						
China—						
Unwrought (b)	15,000	12,000	7,000	7,000	5,000	3,000
Indonesia—						
Ore	27,386	21,062	n.a.	n.a.	n.a.	n.a.
<i>Sn content</i>	16,710	(b) 12,000	(b) 15,000	n.a.	n.a.	n.a.
Japan—						
Unwrought	19	24	33	157	211	46
Semi-manufactures (a)	351	1,026	78	177	112	73
Laos—						
Ore (<i>Sn content</i>)	514	402	495	366	463	415
Thailand—						
Ore (<i>Sn content</i>)	14,244	15,428	15,666	10,758	454	—

(a) Including alloys.

(b) Estimated.

IMPORTS OF TIN, ETC.*

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore and concentrates ..	50,058	44,883	43,518	44,606	55,697	62,803
Unwrought (a) ..	8,361	7,742	8,685	9,128	9,893	8,199
Ghana—						
Unwrought (a) ..	7	6	7	19	—	6
Semi-manufactures (a) ..	521	138	164	51	184	138
Kenya—						
Unwrought (a) ..	121	203	43	72	77	30
Malawi—						
Unwrought	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	34	29	<i>n.a.</i>
Semi-manufactures ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	—	17	<i>n.a.</i>
Mauritius—						
Unwrought (a)	4	5	5	2	3	5
Semi-manufactures (a) ..	—	8	17	5	3	13
Nigeria—						
Unwrought and semi-manufactures (a) ..	74	4	237	142	641	187
Rhodesia (d)—						
Unwrought and semi-manufactures (a) ..	48	132	78	76	<i>n.a.</i>	<i>n.a.</i>
Tanzania—						
Unwrought (a) ..	47	58	20	34	18	18
Uganda—						
Unwrought (a) ..	36	39	32	25	20	16
Zambia—						
Unwrought and semi-manufactures (a) ..	<i>n.a.</i>	<i>n.a.</i>	41	53	69	64
Canada—						
Unwrought	2,274	4,193	4,849	4,993	4,254	4,548
Semi-manufactures ..	6	6	<i>n.a.</i>	26	9	15
Barbados—						
Unwrought (a) ..	5	3	2	5	4	102
Semi-manufactures (a) ..	169	195	284	227	300	334
Jamaica—						
Unwrought (a) ..	36	28	186	14	31	36
Semi-manufactures (a) ..	428	5	27	232	24	5
Trinidad and Tobago—						
Unwrought (a) ..	60	38	58	13	12	5
Semi-manufactures (a) ..	495	731	2,581	4,124	4,061	6,566
Guyana—						
Unwrought (a) ..	14	<i>n.a.</i>	16	15	23	17
Semi-manufactures (a) ..	3	<i>n.a.</i>	3	9	1	2
Aden—						
Semi-manufactures (a) ..	1,220	1,098	1,693	873	710	141
Ceylon—						
Unwrought	11	40	30	14	53	36
do. alloys	33	22	14	2	41	4
Semi-manufactures (a) ..	2,480	3,900	4,346	2,211	2,985	3,592
Cyprus—						
Unwrought (a) ..	14	9	8	6	—	—
Hong Kong—						
Unwrought (a) ..	178	108	14	94	51	89
Scrap	44	8	4	3	3	2
Semi-manufactures (a) ..	5	(b) 3	—	(b) 10	(b) 9	(b) 3
India—						
Unwrought	4,672	4,403	5,043	4,657	2,559	4,204
Semi-manufactures (a)(c) ..	20	172	114	122	54	26
Malaysia (West)—						
Ore	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	10,696	3,242	6,769
Unwrought (a) ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	167	203	55
Semi-manufactures (a) ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	50	59	195

*See footnote on page 362 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 1962 and 1963 relate to Rhodesia and Nyasaland.

IMPORTS OF TIN, ETC. (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
<i>(cont.)</i>						
Pakistan—						
Unwrought (a) ..	461	380	683	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sabah—						
Unwrought	182	253	7	12	12	11
Semi-manufactures ..	205	11	25	8	12	9
Australia—						
Unwrought	1,778	1,751	1,283	1,582	203	693
Semi-manufactures (b) ..	6	17	20	35	21	27
Fiji—						
Semi-manufactures (a)	153	192	311	308	274	179
Sarawak—						
Unwrought and semi-manufactures (a) ..	3	33	6	36	120	109
New Zealand—						
Unwrought (a) ..	380	} 397	{ (b) 364	(b) 434	(b) 388	(b) 389
Semi-manufactures (a)	59		{ (b) 15	(b) (c) 2	(b) 16	(b) 20
Irish Republic—						
Unwrought (a) ..	44	49	70	47	63	92
OTHER COUNTRIES						
Austria—						
Unwrought (a) ..	722	782	632	599	564	523
Semi-manufactures (a)	24	36	37	31	42	82
Belgium-Luxemburg						
E.U.—						
Ore	9,976	8,630	6,560	5,616	6,797	5,943
Unwrought	1,575	2,417	3,023	2,235	3,080	2,624
do. alloys	130	1,556	148	145	175	163
Scrap	3	45	15	1	23	17
Semi-manufactures (a)	125	117	130	152	191	104
Denmark—						
Unwrought	508	576	631	687	581	680
do. alloys	102	185	548	261	459	399
Scrap	558	279	124	70	93	311
Semi-manufactures (a)	122	111	108	96	94	93
Finland—						
Unwrought (a) ..	512	330	315	442	360	237
France—						
Unwrought	11,209	10,998	11,061	9,973	10,441	10,148
do. alloys	63	51	24	69	104	68
Scrap	59	87	81	40	38	31
Semi-manufactures (a)	26	26	53	115	38	38
Germany (Federal)—						
Ore	7,977	8,365	7,539	7,816	7,373	8,250
Unwrought (a) ..	12,084	11,597	13,608	13,492	12,941	12,162
Scrap (a)	225	358	212	388	196	175
Semi-manufactures (a)	28	21	19	34	18	7
Greece—						
Unwrought	260	241	265	240	258	215
Hungary—						
Unwrought	962	1,162	991	1,730	1,429	1,186
Iceland—						
Semi-manufactures (a)	50	14	12	15	14	12
Italy—						
Unwrought	4,712	5,168	4,795	5,101	5,686	5,810
do. alloys	910	718	412	321	224	196
Scrap	9	9	1	6	—	19
Semi-manufactures (a)	79	120	71	39	82	71

(a) Including alloys.

(b) Years ended June 30 of that stated.

(c) Excess of re-exports.

IMPORTS OF TIN, ETC. (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Netherlands—						
Ore	7,527	7,804	28,782	24,022	15,880	19,768
Unwrought	2,515	2,954	1,227	879	3,184	5,053
do. alloys	195	129	275	309	483	890
Scrap (a)	60	143	170	330	286	314
Semi-manufactures (a)	81	66	71	64	58	44
Norway—						
Unwrought	318	308	322	417	417	343
do. alloys	146	203	215	179	177	218
Semi-manufactures (a)	213	220	302	296	354	414
Poland—						
Unwrought	2,169	2,429	2,518	2,518	3,421	3,171
Portugal—						
Unwrought (a) .. .	6	6	10	12	7	15
Semi-manufactures (a)	10	17	26	13	9	13
Spain—						
Ore	1,041	2,779	3,168	2,397	3,094	2,066
Unwrought	25	74	29	24	163	38
Sweden—						
Unwrought	800	612	707	904	675	574
do. alloys	107	164	85	214	85	115
Semi-manufactures (a)	101	114	106	103	104	136
Switzerland—						
Unwrought	1,091	1,002	727	965	865	854
Semi-manufactures (a)	87	88	90	88	141	115
U.S.S.R.—						
Unwrought	9,700	7,700	5,400	5,700	4,700	5,600
Yugoslavia—						
Unwrought	897	2,151	1,373	1,224	1,378	1,792
Semi-manufactures (a)	21	23	19	13	35	29
Egypt—						
Unwrought and scrap ..	544	442	662	1,567	1,285	<i>n.a.</i>
Semi-manufactures .. .	4	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Malagasy Republic—						
Semi-manufactures (a)	6	13	6	3	3	6
Morocco—						
Unwrought	280	298	250	199	135	232
Mozambique—						
Semi-manufactures .. .	42	46	48	41	56	<i>n.a.</i>
South Africa—						
Unwrought	504	794	562	440	386	329
Sudan—						
Unwrought and scrap ..	35	22	38	22	1	59
Semi-manufactures .. .	<i>n.a.</i>	107	258	23	59	22
Tunisia—						
Unwrought (a) .. .	10	15	18	28	22	28
Semi-manufactures (a)	10	11	66	10	9	13
Mexico—						
Unwrought	191	525	347	548	482	80
United States—						
Ore (<i>Sn</i> content) .. .	5,364	1,473	8,743	4,326	4,372	3,255
Unwrought	41,064	43,151	31,582	40,816	41,624	49,923
do. alloys (b) .. .	2,517	268	1,198	2,622	875	861
Scrap	6,570	2,154	976	335	89	281

(a) Including alloys.

(b) Including alloyed scrap, dross and residues.

IMPORTS OF TIN, ETC. (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Argentina—						
Unwrought	954	1,189	1,476	1,319	1,467	845
Brazil—						
Ore	1,843	2,942	923	1,184	234	1
Unwrought (a) ..	1	1	2	1	1	3
Colombia—						
Unwrought (a) ..	126	265	115	97	252	127
Semi-manufactures (a)	66	42	14	3	16	6
Chile—						
Unwrought	580	611	797	791	<i>n.a.</i>	<i>n.a.</i>
Peru—						
Unwrought (a) ..	61	136	100	229	182	193
Uruguay—						
Unwrought	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	46	27	27
Venezuela—						
Unwrought	174	191	147	125	124	133
Burma—						
Unwrought	21	5	44	1	<i>n.a.</i>	<i>n.a.</i>
Semi-manufactures (a)	24	6	—	—	<i>n.a.</i>	<i>n.a.</i>
Formosa—						
Unwrought (a) ..	165	185	102	227	381	<i>n.a.</i>
Iran (b)—						
Unwrought	205	276	216	239	236	—
Iraq—						
Unwrought	27	123	29	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Semi-manufactures ..	63	65	32	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Israel—						
Unwrought	93	101	149	120	126	126
Japan—						
Ore and concentrates ..	927	1,509	2,811	762	1,687	594
Unwrought	11,613	14,357	16,026	14,619	16,838	19,300
Jordan—						
Semi-manufactures ..	26	33	18	16	31	<i>n.a.</i>
Korea (South)—						
Unwrought and semi-manufactures ..	313	215	261	125	214	201
Lebanon—						
Unwrought	11	10	7	16	14	18
Philippine Republic—						
Unwrought (a) ..	469	597	4,530	591	<i>n.a.</i>	<i>n.a.</i>
Syria—						
Unwrought and scrap ..	70	60	84	82	80	54
Turkey—						
Unwrought (a) ..	884	486	844	905	1,060	867
Semi-manufactures (a)	353	15	7	3	2	—

(a) Including alloys.

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

TITANIUM MINERALS
PRODUCTION OF TITANIUM MINERALS

Long tons

Producing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Sierra Leone—						
Rutile concentrates ..	—	(a) 100	—	—	—	18,918
Canada (shipments) (b)—						
Ilmenite	665,851	817,286	1,239,520	1,177,145	1,129,181	1,287,712
Ceylon—						
Ilmenite	4,153	(a) 19,857	45,429	(a) 59,588	(a) 40,549	(a) 52,298
India—						
Ilmenite	135,930	25,553	11,851	29,587	29,691	40,952
Rutile	1,581	1,841	1,841	1,296	1,787	2,496
Malaysia (West) (a)—						
Ilmenite	101,368	146,718	129,222	121,566	116,386	125,000
Australia—						
Ilmenite concentrates (c)	179,494	201,530	304,284	r 441,034	517,716	540,529
Rutile concentrates ..	119,195	183,260	182,371	217,330	243,858	274,963
OTHER COUNTRIES						
Finland—						
Ilmenite concentrates ..	85,812	93,000	114,230	105,138	115,703	124,896
Norway—						
Ilmenite	247,132	238,429	267,727	277,690	363,887	418,836
Portugal—						
Ilmenite	67	40	56	74	473	527
Spain—						
Ilmenite	41,014	49,772	43,230	19,792	44,488	37,262
Egypt—						
Ilmenite	43,937	532	21	—	542	1,045
Rutile	177	4	—	—	33	—
Malagasy Republic—						
Ilmenite	3,134	3,595	4,800	6,211	6,090	1,828
Senegal—						
Ilmenite	22,078	11,996	1,299	—	—	—
Rutile	724	697	53	—	—	—
South Africa—						
Ilmenite	77,764	27,713	—	—	—	—
Rutile	3,192	1,237	—	—	—	—
Mexico—						
Ilmenite	—	139	—	—	—	—
United States (e)—						
Ilmenite (d)	721,183	793,214	893,868	865,588	861,945	834,903
Rutile	8,912	10,638	7,198	n.a.	n.a.	n.a.
Brazil—						
Ilmenite (f)	5,260	5,691	8,140	9,639	13,321	13,400
Rutile	129	321	223	310	n.a.	280
Japan (g)—						
Ilmenite	4,705	4,376	4,779	3,413	5,337	6,858
WORLD'S TOTAL*—						
Ilmenite	2,300,000	2,400,000	3,100,000	3,100,000	3,200,000	3,500,000
Rutile	134,000	198,000	192,000	220,000	250,000	304,000

*Excluding the U.S.S.R.

(a) Exports.

(b) Production of titanium dioxide slag (70–72% TiO₂) at Sorel was as follows (long tons):

1962—269,150; 1963—338,679; 1964—486,358; 1965—487,425; 1966—468,547; 1967—537,906.

(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):

1962—6,009; 1963—7,035; 1964—n.a.; 1965—n.a.; 1966—n.a.; 1967—n.a.

(f) Comissao Nacional de Energie Nuclear only.

(g) Production of metal (commercial titanium sponge) was as follows (long tons):

1962—1,489; 1963—1,731; 1964—2,945; 1965—4,764; 1966—6,330; 1967—7,716.

EXPORTS OF TITANIUM MINERALS, ETC.

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ferro-titanium	552	1,024	1,076	1,251	1,085	977
Sierra Leone—						
Rutile concentrates .. .	—	100	—	—	7	15,768
Canada—						
Titanium dioxide slag (70% TiO ₂)	(a)	(a)	(a)	(a)	(a)	(a)
Ceylon—						
Ilmenite	2,750	19,857	36,982	59,588	40,549	88,220
India—						
Ilmenite	99,649	75,248	26,102	14,857	31,569	20,607
Malaysia (West)—						
Ilmenite	101,368	146,718	129,222	121,566	116,386	89,372
Singapore—						
Titanium oxide	124	150	112	111	136	180
Australia—						
Rutile	117,291	154,508	193,893	239,454	231,289	258,791
Ilmenite	155,075	152,040	246,056	360,719	356,462	384,300
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Titanium oxide	9,897	6,228	1,563	3,223	3,897	5,884
do, extended	34	3,975	10,648	10,322	9,764	9,653
Finland—						
Ilmenite	37,176	62,305	49,785	82,608	49,864	39,792
Titanium oxide	<i>n.a.</i>	<i>n.a.</i>	1,496	19,535	21,109	5,042
France—						
Titanium minerals	175	70	5	1,303	555	25
Ferro-titanium	1,064	1,387	1,754	2,414	2,228	2,265
Titanium oxide	6,664	7,744	10,508	10,557	5,780	13,589
do, extended	14,293	17,714	23,507	22,507	26,309	27,625
Germany (Federal)—						
Titanium minerals	87	221	427	253	619	<i>n.a.</i>
Titanium oxide	49,813	53,288	54,808	32,232	28,864	26,683
do, extended	85	1,267	14,100	37,554	49,006	57,458
Italy—						
Titanium oxide	11,519	15,066	13,069	17,339	18,919	17,381
Netherlands—						
Titanium oxide	106	2,575	6,090	8,492	10,557	8,900
do, extended	14	51	86	32	564	436
Norway—						
Ilmenite	230,094	236,711	275,039	319,118	344,517	344,238
Rutile						
Titanium oxide, extended						
Titanium oxide, extended	1,982	1,650	3,122	5,261	7,865	6,584
Spain—						
Ilmenite	24,413	20,432	26,299	18,806	9,744	6,200
Titanium oxide	1,428	1,203	1,648	1,766	1,587	4,788
Sweden—						
Titanium minerals	26	25	25	43	28	—
Titanium oxide	26	18	24	82	66	45
do, extended	49	66	—	—	—	—
Cameroun—						
Rutile	10	—	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Senegal—						
Ilmenite	22,599	13,658	2,114	—	—	—
South Africa—						
Ilmenite	59,356	14,459	16,194	—	—	—
Rutile	289	—	—	—	—	—

(a) Information not available. Most of the titanium dioxide slag produced in Canada (figures on page 369) is believed to be exported.

EXPORTS OF TITANIUM MINERALS, ETC. (cont.)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
United States—						
Ores and concentrates ..	1,093	1,082	1,929	1,073	1,161	2,703
Titanium metal (a) ..	1,231	1,567	2,395	2,444	1,547	1,276
Ferro-titanium	116	188	483	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Titanium oxide and pigments	25,977	23,841	26,213	24,014	24,328	23,272
Brazil—						
Titanium minerals ..	—	—	—	—	9	—
Japan—						
Titanium sponge metal	989	1,189	1,549	3,264	4,474	5,310
Titanium oxide	21,692	23,576	35,411	37,511	37,148	27,306

(a) Including alloys and scrap.

IMPORTS OF TITANIUM MINERALS, ETC.

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ilmenite.. ..	275,890	226,810	178,969	266,477	244,947	250,016
Rutile	15,629	18,267	13,955	17,225	16,953	16,926
Other titanium minerals	—	—	(c) 20,924	—	—	—
Titanium sponge	31	n.a.	} (d) 1,706	(d) 2,409	(d) 1,865	(d) 861
Other titanium metal	9	n.a.		(d) 2,409	(d) 1,865	(d) 861
Titanium oxide.. ..	1,880	3,895	2,761	3,134	2,782	5,566
Canada—						
Titanium metal	n.a.	n.a.	649	717	1,267	1,935
Titanium oxide	11,268	3,006	1,642	1,397	4,453	1,443
do, extended	11,003	8,321	9,324	8,512	8,727	8,717
Hong Kong—						
Titanium oxide.. ..	2,246	2,137	2,237	2,262	2,456	2,707
India—						
Rutile	95	—	336	743	998	640
Titanium oxide (b)	2,392	2,793	3,002	2,758	3,820	4,752
Malaysia (West)—						
Titanium oxide	n.a.	n.a.	n.a.	904	1,400	1,332
Singapore—						
Titanium oxide.. ..	95	466	547	581	744	899
Australia (a)—						
Titanium oxide.. ..	4,644	6,075	3,149	3,384	1,464	1,103
New Zealand—						
Titanium oxide.. ..	3,494	(a) 3,783	(a) 4,286	(a) 4,849	(a) 1,639	(a) 654
Irish Republic—						
Titanium oxide.. ..	1,356	1,594	2,096	2,138	1,750	2,412
OTHER COUNTRIES						
Austria—						
Ferro-titanium	139	162	103	185	226	163
Titanium oxide.. ..	3,805	4,221	4,815	4,734	5,153	5,674
Belgium-Luxemburg						
E.U.—						
Titanium minerals	n.a.	n.a.	n.a.	n.a.	1,532	14,642
Ferro-titanium	182	216	225	251	143	94
Titanium oxide	5,425	6,398	6,862	8,274	10,137	11,473
do, extended	1,658	1,361	1,659	1,979	2,417	3,379
Denmark—						
Titanium oxide	4,607	4,709	5,362	5,762	5,855	5,860
do, extended	218	189	172	139	102	88
Finland—						
Titanium oxide	2,269	1,072	1,526	1,390	756	10
France—						
Titanium minerals	80,702	95,020	134,711	93,420	108,771	97,689
Titanium metal	175	262	250	292	332	487
Titanium oxide.. ..	9,661	9,595	12,727	14,488	17,033	14,102
do, extended	40	83	87	492	3,332	5,702
Germany (Federal)—						
Ilmenite.. ..	208,954	220,473	207,808	275,967	227,078	212,694
Other titanium minerals	68,574	58,792	142,654	128,983	138,689	155,787
Titanium metal	274	352	693	758	1,030	1,193
Titanium oxide.. ..	592	1,082	1,583	1,783	3,072	2,435
do, extended	2,402	3,486	4,345	7,818	9,391	8,667
Greece—						
Titanium oxide.. ..	1,023	1,339	1,580	1,749	2,082	2,379
Hungary—						
Ferro-titanium	88	88	98	n.a.	n.a.	—

(a) Years ended June 30 of that stated.

(b) Years ended March 31 following that stated.

(c) Imports from Canada; probably titanium dioxide slag.

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

IMPORTS OF TITANIUM MINERALS, ETC. (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Iceland—						
Titanium oxide, extended	215	227	236	77	1	39
Italy—						
Titanium minerals ..	67,802	97,351	110,456	84,552	113,085	104,718
Ferro-titanium ..	458	401	528	771	607	502
Titanium oxide ..	10,653	13,478	14,366	15,744	17,840	21,012
do, extended ..	147	156	140	103	76	76
Netherlands—						
Ferro-titanium ..	28	37	40	41	68	38
Titanium oxide ..	17,054	11,210	2,218	3,898	1,794	2,491
do, extended ..	1,341	9,019	14,839	10,402	13,868	16,545
Norway—						
Titanium oxide ..	820	1,079	—	—	—	1,105
do, extended ..	5,507	5,290	5,183	4,868	3,902	3,932
Poland—						
Titanium oxide ..	<i>n.a.</i>	2,891	3,144	4,338	6,570	8,542
Portugal—						
Rutile	326	<i>n.a.</i>	200	341	549	343
Titanium oxide ..	1,430	1,670	1,999	2,157	2,394	2,595
Spain—						
Ilmenite	30	3,474	3,936	53	7,334	2,718
Titanium oxide ..	947	1,679	2,482	3,687	5,244	5,491
Sweden—						
Titanium minerals ..	4,423	3,612	3,419	3,632	4,468	2,747
Ferro-titanium ..	264	736	1,167	1,406	1,423	1,055
Titanium oxide ..	11,778	12,524	13,147	9,648	11,734	7,829
do, extended ..	788	701	—	—	—	—
Switzerland—						
Titanium oxide ..	6,078	5,503	6,721	6,953	6,872	7,211
Yugoslavia—						
Rutile	680	1,645	1,194	1,119	1,840	1,672
Titanium oxide ..	1,382	1,589	3,008	1,522	2,700	3,863
Morocco—						
Titanium oxide ..	286	391	331	361	152	367
do, extended ..	<i>n.a.</i>	1	<i>n.a.</i>	191	359	191
Tunisia—						
Titanium oxide ..	87	148	182	251	258	345
Costa Rica—						
Titanium oxide ..	157	141	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	—
Mexico—						
Titanium oxide ..	60	1,537	21	1,196	102	17
United States—						
Ilmenite (a)	148,802	179,357	154,660	148,496	166,553	185,630
Rutile	32,112	64,277	99,090	135,489	135,251	149,196
Titanium metal ..	825	1,320	1,835	2,798	5,339	6,674
Ferro-titanium ..	107	37	<i>n.a.</i>	15	—	—
Titanium compounds ..	14,800	22,569	36,348	44,364	(b) 42,846	(b) 41,763
Argentina—						
Titanium oxide ..	4,363	2,887	7,159	4,905	6,107	2,057
Brazil—						
Titanium oxide ..	5,371	6,982	6,464	6,455	9,764	9,319
Chile—						
Titanium oxide extended ..	1,275	2,471	r 1,766	2,011	<i>n.a.</i>	<i>n.a.</i>
Colombia—						
Titanium oxide ..	2,119	2,742	2,234	271	1,602	896
Peru—						
Titanium oxide ..	755	721	1,012	71	1,415	—
Venezuela—						
Titanium oxide ..	194	196	314	330	312	533
do, extended ..	2,108	2,257	3,207	2,917	2,679	4,099

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

(b) Dioxide only.

IMPORTS OF TITANIUM MINERALS, ETC. (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Formosa—						
Titanium oxide ..	526	721	1,363	1,564	2,291	<i>n.a.</i>
Iran (a)—						
Titanium oxide ..	97	116	304	414	642	919
Japan—						
Ilmenite.	120,366	139,649	183,049	208,602	319,820	269,288
Titanium oxide. . .	59	65	193	249	716	3,279
Korea (South)—						
Titanium oxide ..	1,291	967	1,580	1,569	1,651	2,110
Philippine Republic—						
Titanium oxide. . .	2,156	1,955	2,259	2,324	<i>n.a.</i>	<i>n.a.</i>
do, extended ..	522	841	744	1,185	<i>n.a.</i>	<i>n.a.</i>
Turkey—						
Titanium oxide ..	973	1,383	1,396	2,502	2,782	2,771
Titanium minerals ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	383

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

TUNGSTEN

PRODUCTION OF TUNGSTEN ORES AND CONCENTRATES

Long tons

Producing Country and Description	Estimated WO ₃ Content						1967	1966	1965	1964	1963	1962
	1962	1963	1964	1965	1966	1967						
COMMONWEALTH COUNTRIES												
Nigeria—	—	—	—	2	1	n.a.	—	—	1	—	—	—
Wolfram ..	—	—	—	n.a.	n.a.	n.a.	14	2	16	n.a.	—	n.a.
Concentrates	19	3	—	n.a.	n.a.	n.a.	—	—	—	—	—	n.a.
Tanzania—	—	—	—	—	11	47	—	—	—	—	—	28
Wolfram ..	—	—	—	—	—	—	—	—	—	—	—	—
Uganda—	—	—	—	—	—	—	—	—	—	—	—	—
Wolfram ..	11	2	—	41	117	131	7	1	27	78	—	88
Canada (a)—	—	—	—	—	—	—	—	—	—	—	—	—
Concentrates	3	n.a.	n.a.	n.a.	n.a.	n.a.	2	n.a.	r 1,668	1,902	n.a.	164
Hong Kong—	—	—	—	—	—	—	—	—	—	—	—	—
Wolfram ..	15	7	1	6	8	4	10	5	4	5	—	3
India—	—	—	—	—	—	—	—	—	—	—	—	—
Concentrates	10	4	7	13	24	28	6	3	8	15	—	18
Malaysia (West)—	—	—	—	—	—	—	—	—	—	—	—	—
Wolfram ..	9	6	5	14	6	13	6	4	9	4	—	9
Scheelite	—	—	(b)	—	—	9	—	—	—	—	—	6
Australia—	—	—	—	—	—	—	—	—	—	—	—	—
Wolfram ..	492	394	380	487	497	450	351	285	354	365	—	330
Scheelite	995	958	1,020	1,150	1,308	1,202	691	675	822	940	—	860
New Zealand—	—	—	—	—	—	—	—	—	—	—	—	—
Scheelite	8	5	5	—	3	16	5	3	—	2	—	10
TOTAL							1,092	980	2,954	3,190	1,010	1,520
OTHER COUNTRIES												
Austria—	—	—	—	—	—	—	—	—	—	—	—	—
Concentrates	250	192	93	169	121	143	172	132	115	81	—	97

(a) Shipments (chiefly scheelite).

(b) Exports.

PRODUCTION OF TUNGSTEN ORES AND CONCENTRATES (cont.)

Long tons

Producing Country and Description	Estimated WO ₃ Content						
	1962	1963	1964	1965	1966	1967	
OTHER COUNTRIES (cont.)							
France— Concentrates ..	614	—	—	—	—	—	20
Italy— Concentrates ..	1	2	1	1	1	1	1
Portugal— Scheelite ..	52	1,309	1,401	1,329	1,043	970	1,360
Wolfram ..	1,947						
Spain— Concentrates ..	248	46	27	40	18	26	89
Tin-tungstenconcentrates	568	212	8	20	4	1	n.a.
Sweden— Concentrates ..	334	334	—	—	—	—	58
U.S.S.R. (b)	n.a.	n.a.	n.a.	n.a.	6,500	—	n.a.
Yugoslavia ..	n.a.	n.a.	n.a.	n.a.	76	6,800	7,600
Congo Republic— Concentrates ..	n.a.	n.a.	n.a.	n.a.	10	(b) 77	n.a.
Tin-tungsten ore ..	n.a.	n.a.	n.a.	n.a.	119	127	65
Rwanda and Burundi— Concentrates ..	136	14	n.a.	n.a.	88	162	n.a.
South Africa— Concentrates ..	22	7	4	4	4	3	16
South West Africa— Scheelite ..	2	—	—	1	—	1	1
Tin-wolfram concentrates	575	753	660	588	133	118	n.a.
Mexico ..	n.a.	n.a.	n.a.	n.a.	5	108	n.a.
United States— Concentrates (a) ..	7,526	5,051	8,254	7,097	4,952	4,258	4,868

(a) Shipments from mine.

(b) United States Bureau of Mines' estimate.

PRODUCTION OF TUNGSTEN ORES AND CONCENTRATES (cont.)

Long tons

Producing Country and Description	Estimated WO ₃ Content					
	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES (cont.)						
Argentina— Concentrates ..	513	148	n.a.	128	130	201
Bolivia (a)— Concentrates ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Brazil— Wolfram and scheelite ..	1,018	456	314	313	494	589
Peru— Concentrates ..	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Burma— Tungsten concentrates ..	212	88	85	27	44	93
Tin-wolfram concentrates	1,152	1,279	958	n.a.	n.a.	n.a.
China— Concentrates (b) ..	22,000	22,000	20,000	17,000	15,000	15,000
Japan— Concentrates ..	906	640	704	586	576	679
Korea— South— Concentrates ..	5,706	4,662	4,582	3,777	3,629	3,586
North— Concentrates (b) ..	4,000	4,000	4,000	4,000	4,000	4,500
Thailand— Concentrates ..	387	187	391	503	511	844
TOTAL	37,000	32,000	33,000	30,000	30,000	30,000
WORLD'S TOTAL	38,000	33,000	34,000	33,000	33,000	34,000

(a) Exports.

(b) Estimated.

(c) Recoverable.

EXPORTS OF TUNGSTEN, ETC.

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Tungsten ore	20	—	45	12	—	5
Ferro-tungsten	1,584	1,225	896	1,005	1,175	1,176
Tungsten metal, etc.	41	53	58	71	96	87
Rhodesia (d)						
Tungsten ores	26	2	<i>n.a.</i>	26	<i>n.a.</i>	<i>n.a.</i>
Tanzania—						
Wolfram ore	<i>n.a.</i>	—	—	—	11	46
Uganda—						
Wolfram ore	—	6	18	64	104	145
Hong Kong—						
Tungsten ore	—	—	70	10	13	5
India—						
Wolfram ore	2	—	—	1	1	—
Malaysia (West)—						
Wolfram	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	5	19	36
Scheelite	—	—	1	1	—	2
Australia (a)—						
Wolfram ores and concentrates	760	452	475	361	560	472
(<i>WO₃ content</i>)	555	327	343	269	345	343
Scheelite ores and concentrates	974	295	1,045	1,725	1,300	1,206
(<i>WO₃ content</i>)	676	205	727	1,191	884	788
OTHER COUNTRIES						
Austria—						
Ore	298	207	79	189	99	161
Belgium-Luxemburg						
E.U.—						
Ferro-tungsten	118	96	19	10	—	35
France—						
Tungsten ore	478	106	63	5	3	32
Ferro-tungsten	274	215	168	260	451	313
Tungsten metal, etc.	65	71	171	201	260	230
Germany (Federal)—						
Tungsten metal, etc.	217	248	246	260	674	334
Netherlands—						
Ore	114	187	217	225	218	245
Portugal—						
Tungsten ores	2,008	1,133	1,292	1,101	1,134	1,304
do. residues	—	—	87	—	116	127
Ferro-tungsten	<i>n.a.</i>	<i>n.a.</i>	265	217	267	371
Spain—						
Tungsten ore	281	37	50	40	73	184
Sweden—						
Ore	—	18	222	33	24	43
Tungsten metal, etc.	26	96	31	33	75	190
Ferro-tungsten	104	169	71	86	147	104
Congo Republic (c)—						
Tungsten ores (b)	100	100	300	500	200	140
South Africa—						
Tungsten ore	—	4	20	3	4	39
South West Africa—						
Tungsten ore	3	—	—	—	—	—
Tin-tungsten ore	530	761	680	511	621	<i>n.a.</i>
Mexico—						
Tungsten ore and concentrates	60	85	14	201	224	256
(<i>WO₃ content</i>)	47	20	5	108	85	<i>n.a.</i>

(a) Years ended June 30 of that stated. (b) Estimated. (c) Including Rwanda and Burundi.
 (d) Figures for years 1962 and 1963 relate to Rhodesia and Nyasaland.

EXPORTS OF TUNGSTEN, ETC. (cont.)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
United States—						
Ore and concentrates ..	35	44	69	10	88	843
Ferro-tungsten ..	5	1	—	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Tungsten metal, alloys and scrap ..	55	71	228	136	114	300
Tungsten powder ..	66	80	100	47	18	23
Argentina—						
Tungsten ore ..	2,067	1,026	5	24	49	98
Bolivia—						
Tungsten ore (<i>WO₃ content</i>) ..	1,499	1,347	1,224	1,094	1,555	1,919
Brazil—						
Tungsten ores ..	615	785	323	419	335	413
Peru—						
Tungsten ore and concentrates (<i>WO₃ content</i>) ..	234	172	578	445	425	730
Burma—						
Ore and concentrates ..	278	551	406	173	<i>n.a.</i>	<i>n.a.</i>
Tin-tungsten ores ..	397	381	521	514	<i>n.a.</i>	<i>n.a.</i>
Japan—						
Tungsten metal ..	23	55	15	105	84	28
Korea (South)—						
Tungsten ore ..	4,639	5,026	5,377	4,041	3,701	3,927
Thailand—						
Tungsten ore ..	190	253	74	206	804	844

IMPORTS OF TUNGSTEN, ETC.

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Tungsten ores	5,389	4,904	5,008	5,097	5,066	5,515
Tungsten metal, etc. ..	6	24	32	31	51	46
Ferro-tungsten	27	<i>n.a.</i>	180	202	102	217
Canada—						
Tungsten ore	1,274	288	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
<i>W content</i>	<i>n.a.</i>	<i>n.a.</i>	174	160	234	104
Ferro-tungsten	127	279	77	158	86	86
India—						
Tungsten ore	2	35	226	98	—	184
Australia (b)—						
Tungsten metal	10	16	34	31	18	13
OTHER COUNTRIES						
Austria—						
Tungsten ore	2,686	2,851	3,228	3,299	3,494	2,616
Tungsten metal, etc. ..	35	44	79	33	24	83
Ferro-tungsten	302	—	226	188	59	—
Belgium-Luxemburg						
E.U.—						
Tungsten ore	70	11	3	42	86	58
Ferro-tungsten	132	82	57	14	22	33
France—						
Tungsten ore	1,980	2,156	1,538	2,153	2,430	1,942
Tungsten metal, etc. ..	36	40	67	64	73	77
Germany (Federal)—						
Tungsten ore	4,681	3,913	4,831	6,024	5,228	4,411
Tungsten metal, etc. ..	122	79	347	442	1,156	614
Greece—						
Tungsten metal	260	39	180	1	—	—
Italy—						
Tungsten ore	116	78	59	12	45	45
Tungsten metal, etc. ..	29	40	28	34	73	79
Ferro-tungsten	185	129	107	96	178	165
Netherlands—						
Tungsten ore	203	20	60	239	431	216
Ferro-tungsten	21	2	14	4	4	3
Poland—						
Tungsten concentrates ..	<i>n.a.</i>	2,364	2,631	2,291	2,908	2,406
Sweden—						
Tungsten ore	1,312	1,277	1,285	1,851	1,873	900
Tungsten metal, etc. ..	75	68	93	131	151	55
Ferro-tungsten	260	256	402	693	709	380
U.S.S.R. (a)—						
Tungsten concentrates	12,800	11,800	5,900	5,900	3,000	6,000
Yugoslavia—						
Tungsten metal, etc. ..	6	16	30	36	40	11
Tungsten concentrates ..	422	15	203	58	<i>n.a.</i>	<i>n.a.</i>
Ferro-tungsten	60	1	—	36	36	87
United States—						
Tungsten ore	3,260	2,413	2,449	3,055	3,346	1,280
(<i>WO₃ content</i>)	1,799	1,366	1,405	1,615	1,919	759
Tungsten metal and carbide						
(<i>W content</i>)	222	37	27	20	<i>n.a.</i>	64
Ferro-tungsten	294	487	87	172	169	<i>n.a.</i>
Tungsten ingots, bars, scrap, etc.	119	156	179	32	182	62
Japan—						
Tungsten ore	2,162	2,290	2,807	1,477	2,710	4,436
Tungsten metal	7	—	2	2	2	37

(a) Imports from China.

(b) Years ended June 30 of that stated.

URANIUM MINERALS
PRODUCTION OF URANIUM MINERALS
(Metal content)

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Canada (a)	6,382	6,323	5,516	3,364	2,977	2,820
.. ..	£ 52,701,539	45,332,644	27,716,372	20,691,256	18,058,024	16,620,817
Australia	1,083	919	280	n.a.	n.a.	n.a.
OTHER COUNTRIES						
France	1,025	1,065	993	1,055	1,121	1,208
Portugal	9	8	15	32	(b) 35	n.a.
Spain	n.a.	n.a.	76	97	n.a.	n.a.
Gabon	(b) 350	(b) 450	430	434	(b) 400	447
Malagasy Republic (c) ..	(b) 85	(b) 80	126	101	84	64
South Africa	3,789	3,435	3,375	2,231	2,489	2,544
.. ..	£ 640,000,000	637,000,000	635,000,000	623,000,000	626,000,000	627,000,000
United States	12,879	10,765	8,970	7,906	7,259	6,909
.. ..	£ 97,000,000	80,400,000	68,000,000	60,000,000	54,000,000	53,000,000
Argentina	3	7	28	41	—	23
WORLD'S TOTAL (b) ..	35,000	31,000	27,000	23,000	22,000	21,000

(a) Producers' shipments.

(b) Estimated.

(c) Uranium content of uranothorianite.

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

EXPORTS OF URANIUM MINERALS, ETC.

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Canada—						
Ores and concentrates £	55,549,230	45,540,191	24,777,024	17,810,184	12,061,692	8,059,006
OTHER COUNTRIES						
Congo Republic—						
Radium products (Ra content) Mgrams ..	28,700	18,300	18,100	n.a.	n.a.	n.a.
Gabon—						
Concentrates Long tons ..	1,157	1,228	1,370	1,497	1,422	1,376
Malagasy Republic—						
Uranothorianite Long tons	535	474	610	414	353	302
South Africa—						
Concentrates (U ₃ O ₈ content) Long tons	4,117	3,696	n.a.	n.a.	n.a.	n.a.
£	36,876,796	33,381,194	29,034,237	16,653,899	n.a.	n.a.
Prescribed minerals (a)	£ 37,195,326	n.a.	n.a.	n.a.	n.a.	n.a.
United States—						
Ores, concentrates and compounds Long tons	12	5	1	—	21	—
Metal and alloys Long tons	—	3	3	2	2	—
Radium metal (Ra content) Mgrams.	328	311	177	n.a.	n.a.	n.a.

(a) Mainly uranium but includes some thorium.

IMPORTS OF URANIUM MINERALS, ETC.

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Canada—						
Radium and compounds .. £	76,205	197,000	105,823	47,753	118,076	32,406
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Ore Long tons	—	—	—	22	—	—
France—						
Ore Long tons	1,396	1,912	1,880	2,204	1,714	1,914
Germany (Federal)—						
Ore Long tons	23	6	23	—	—	—
United States—						
Concentrates Long tons (U ₃ O ₈ content)	10,429	7,859	4,729	2,366	1,829	1,288
Radium salts Mgrams.	46,962	44,660	n.a.	n.a.	n.a.	n.a.

VANADIUM
PRODUCTION OF VANADIUM ORES
(Metal content)

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Zambia	3	—	—	—	—	—
OTHER COUNTRIES						
Finland	562	688	968	r 949	955	1,154
France (a)	—	56	33	83	71	n.a.
South Africa .. .	1,244	1,237	1,142	1,355	1,526	1,888
South West Africa ..	904	1,015	966	1,128	1,208	n.a.
Mexico	—	—	—	1	—	n.a.
United States (c) ..	6,828	5,399	4,629	5,037	5,076	4,543
Argentina.. .. .	8	2	2	—	—	—
WORLD'S TOTAL (b) ..	9,500	8,400	7,700	8,600	8,800	8,900

(a) By-product vanadium from aluminium plants.

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

(c) Shipments.

EXPORTS OF VANADIUM, ETC.

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom— Ferro-vanadium ..	5	3	5	117	61	41
OTHER COUNTRIES						
Belgium-Luxemburg E.U.— Ferro-vanadium ..	228	387	n.a.	n.a.	n.a.	n.a.
Finland— Oxide	1,286	1,560	2,187	—	2,098	2,452
France— Ferro-vanadium ..	68	10	86	194	167	244
Italy— Ferro-vanadium ..	n.a.	n.a.	39	18	5	—
Sweden— Ferro-vanadium ..	155	197	139	105	193	172
South Africa— Oxide	* 1,463	(c) 728	(d) 3,252	(e) 2,159	(f) 2,719	(b) 2,756
South West Africa— Concentrates (V content) (a) ..	600	900	900	800	1,000	n.a.
United States— Ore, concentrates, etc. (V content)	902	478	1,099	695	1,412	1,255
Flue dust and other waste (V content) ..	73	829	97	n.a.	n.a.	n.a.
Ferro-vanadium ..	179	164	92	197	430	314

(a) Estimated.

(b) Including 43 tons of ammonium vanadate.

(c) Including 24 tons of ammonium vanadate.

(d) Including 60 tons of ammonium vanadate.

(e) Including 45 tons of ammonium vanadate.

(f) Including 57 tons of ammonium vanadate.

IMPORTS OF VANADIUM, ETC.

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom (a)—						
Ferro-vanadium ..	24	59	85	239	81	141
Canada—						
Ferro-vanadium ..	<i>n.a.</i>	<i>n.a.</i>	232	290	427	346
OTHER COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Ferro-vanadium ..	37	24	20	6	13	10
Oxide	437	501	968	403	452	594
France—						
Ore	252	—	—	—	—	—
Oxide	652	218	398	601	772	1,206
Hungary—						
Ferro-vanadium ..	138	109	129	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Italy—						
Ferro-vanadium ..	840	<i>n.a.</i>	179	334	334	616
Oxide	30	113	228	203	247	231
Netherlands—						
Ferro-vanadium ..	9	4	6	9	15	8
Sweden—						
Ferro-vanadium ..	37	52	76	156	359	173
United States—						
Ore	—	—	99	—	<i>n.a.</i>	<i>n.a.</i>
(V content)	—	—	11	—	64	67
Japan—						
Ore	593	—	—	92	—	—

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

VERMICULITE
PRODUCTION OF VERMICULITE

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Kenya	20	91	33	22	75	247
Tanzania	64	27	129	96	261	90
India	426	666	422	720	492	312
OTHER COUNTRIES						
Egypt	279	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
South Africa	76,370	88,177	99,886	113,313	101,546	99,898
United States (a)	183,703	202,034	202,053	222,636	234,215	227,679
Argentina	2,645	2,736	3,599	1,658	4,096	2,358
WORLD'S TOTAL*	264,000	294,000	306,000	339,000	341,000	333,000

*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	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Rhodesia (a)	4	4	22	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
OTHER COUNTRIES						
South Africa	69,527	80,768	96,620	94,596	87,768	94,059

(a) Figures for years 1962 and 1963 relate to Rhodesia and Nyasaland.

IMPORTS OF VERMICULITE

Long tons

Importing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom (a)	23,437	25,275	30,805	33,513	24,354	<i>n.a.</i>
Canada	<i>n.a.</i>	<i>n.a.</i>	22,910	25,478	25,740	26,197
Australia (c)	(£178,211)	(£189,842)	(£157,530)	(£188,221)	(£198,342)	(£211,653)
	1,780	1,711	1,997	2,877	2,544	2,215
OTHER COUNTRIES						
France (b)	15,436	13,019	15,806	19,402	21,384	36,363
Greece	59	64	32	62	63	63
Mexico	334	367	607	554	568	367
United States (a)	10,802	12,801	16,444	14,904	7,529	<i>n.a.</i>
Venezuela	57	280	335	491	446	218

(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	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Zambia (c)	39,800	48,670	45,974	46,687	41,654	45,000
Canada (h)	413,522	422,966	611,172	733,960	860,809	968,355
India	5,446	5,767	5,914	5,233	4,809	5,187
Australia	337,532	351,470	344,600	349,231	369,341	397,581
TOTAL	796,000	829,000	1,008,000	1,135,000	1,277,000	1,416,000
Irish Republic	—	—	—	1,283	22,670	29,540
OTHER COUNTRIES						
Austria	8,713	9,025	9,609	9,396	10,317	10,984
Bulgaria	61,700	57,000	63,200	65,200	75,600	(g) 80,000
Finland (b)	51,347	65,305	61,996	67,920	53,516	(g) 55,600
France	17,175	17,911	16,575	20,572	22,926	24,000
Germany (Federal) (i) .. .	85,707	91,716	94,318	93,128	97,098	104,882
Germany (East) (g) .. .	7,000	7,000	7,000	8,000	12,000	12,000
Greece	16,747	12,148	10,088	10,310	n.a.	10,268
Hungary	2,300	2,600	2,800	3,200	(g) 3,200	n.a.
Italy	128,978	106,175	101,670	112,495	111,571	122,237
Norway	11,659	12,842	12,296	12,726	13,101	11,980
Poland	142,800	144,800	148,300	149,700	147,900	152,700
Portugal	11	168	937	2,905	2,308	n.a.
Spain	77,281	90,284	87,062	r 38,646	56,124	57,084
Sweden	80,560	83,645	75,955	77,870	82,219	80,388
U.S.S.R. (c) (e)	430,000	440,000	450,000	470,000	500,000	510,000
Yugoslavia	60,148	60,298	65,027	90,368	82,005	88,595
Algeria	41,000	(e) 34,000	(e) 38,000	36,504	14,900	8,000
Congo Republic	93,681	101,910	103,874	117,272	113,036	119,604
Congo, Republic of	823	42	5,408	7,383	6,601	2,337
Morocco	33,876	32,516	41,677	50,409	45,952	38,873
South Africa	—	—	—	2	—	—
South West Africa	25,000	22,900	29,732	29,407	27,796	22,200
Tunisia	4,267	4,300	3,200	4,662	5,702	4,087
Greenland	2,145	—	—	—	—	—
Guatemala (b)	803	1,150	—	1,376	490	243
Honduras	6,480	(d) 7,352	8,433	10,951	12,197	12,842
Mexico	246,724	236,030	231,882	221,324	215,718	210,351
United States (b)	451,331	472,548	513,266	545,672	511,212	490,547
Argentina	30,928	28,283	22,551	29,210	26,028	26,820
Bolivia (a)	3,588	4,574	9,604	13,472	16,438	16,400
Brazil	—	—	—	5,167	n.a.	n.a.
Chile	362	473	863	1,093	2,054	1,105
Colombia (g)	300	100	100	50	295	545
Ecuador	162	353	373	232	133	158
Peru (b)	159,678	193,207	232,922	250,477	253,746	312,902
Burma	8,068	8,100	7,800	8,000	6,000	5,000
China (g)	100,000	100,000	100,000	100,000	100,000	90,000
Iran (f)	7,400	(g) 10,000	(g) 15,000	(g) 15,000	(g) 17,000	n.a.
Japan	189,441	194,830	213,037	218,000	249,000	257,000
Korea (South)	400	1,100	2,500	7,000	11,500	13,400
Korea (North) (g)	90,000	100,000	100,000	105,000	105,000	120,000

- (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	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES (cont.)						
Philippine Republic ..	4,390	3,832	2,102	2,026	1,622	1,462
Thailand	(a) 900	(a) 900	(a) 1,400	(a) 2,000	(a) 2,500	n.a.
Turkey	6,072	4,518	7,888	7,000	n.a.	n.a.
TOTAL	2,700,000	2,800,000	2,900,000	3,000,000	3,000,000	3,100,000
WORLD'S TOTAL ..	3,500,000	3,600,000	3,900,000	4,100,000	4,300,000	4,600,000

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

(a) Estimated.

METAL PRODUCTION OF ZINC

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom	97,276	99,028	109,282	105,127	99,745	102,675
Zambia	39,800	48,670	45,974	46,687	41,654	43,781
Canada	250,141	253,589	301,543	320,087	341,612	363,336
Australia	167,928	179,777	185,531	198,988	194,410	194,472
TOTAL	555,145	581,064	642,330	670,889	677,427	704,264
OTHER COUNTRIES						
Austria	11,897	11,673	12,692	12,906	13,977	13,933
Belgium	202,904	203,070	218,634	236,013	247,738	223,738
Bulgaria	50,908	55,179	57,648	64,725	(d) 60,000	64,000
France	166,500	170,600	190,900	192,700	197,400	185,000
Germany (Federal)	168,458	154,262	153,528	152,277	173,567	138,596
Germany (East)(a)	5,000	10,000	10,000	10,000	12,000	11,000
Hungary	1,500	1,500	1,400	1,500	(d) 1,500	n.a.
Italy	76,835	72,403	71,699	79,620	76,901	87,619
Netherlands	36,464	35,197	37,107	40,176	40,704	35,140
Norway	44,266	45,821	47,593	51,746	50,313	53,935
Poland	178,000	178,000	184,000	187,000	190,000	193,000
Spain	61,591	63,708	63,413	r 52,671	52,881	68,599
U.S.S.R. (a)	430,000	440,000	450,000	470,000	500,000	510,000
Yugoslavia	38,683	41,577	43,809	45,337	50,282	52,344
Congo Republic	55,017	51,893	54,676	56,119	60,529	60,521
Mexico	56,009	55,854	58,487	61,748	70,454	75,000
United States (b) (c)	785,174	796,950	851,861	887,859	915,237	838,241
Argentina	16,506	19,388	21,876	23,227	21,931	22,626
Peru	32,236	53,834	60,942	61,938	62,000	62,000
China (d)	90,000	90,000	90,000	90,000	90,000	80,000
Japan	235,832	271,527	303,802	360,000	440,000	510,000
Korea (South)	—	—	—	—	1,402	2,419
Korea (North) (d)	60,000	65,000	70,000	75,000	75,000	80,000
TOTAL	2,800,000	2,900,000	3,000,000	3,200,000	3,400,000	3,400,000
WORLD'S TOTAL	3,300,000	3,500,000	3,700,000	3,900,000	4,100,000	4,100,000

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

(a) Estimated.

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

1962	233,944	1965	315,504
1963	239,513	1966	321,617
1964	266,423	1967	285,579

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

	1962	1963	1964	1965	1966	1967
A—High grade—Special	350,804	367,191	418,525	428,336	404,216	390,044
Ordinary	84,094	93,126	100,050	100,403	124,834	82,996
B—Intermediate grade	12,590	16,404	17,009	16,058	21,031	33,680
C and D—Brass special	67,813	87,670	72,352	77,406	92,129	81,321
Selected	116	3,490	291	276	—	—
E—Prime Western	322,328	282,912	307,559	340,040	347,370	325,829

(d) United States Bureau of Mines' estimate.

PRODUCTION OF ELECTROLYTIC ZINC IN CERTAIN COUNTRIES*

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Zambia	26,500	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Canada	250,141	253,589	301,543	320,087	341,612	363,336
Australia (Tasmania) ..	167,928	179,777	185,531	198,988	194,410	194,472
OTHER COUNTRIES						
Austria	11,897	11,673	12,692	12,906	13,977	13,933
Norway	44,266	45,821	47,593	51,746	50,313	53,935
Poland	80,800	82,200	85,900	88,600	90,400	92,000
Congo Republic	55,017	51,893	54,676	56,119	60,529	60,521
United States	316,195	319,726	347,663	364,400	387,121	331,488
Japan	154,206	171,899	196,240	240,000	270,000	306,000

*This production is already included in the Metal table.

PRODUCTION OF ZINC DUST IN CERTAIN COUNTRIES

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom ..	10,861	13,343	13,581	12,716	12,183	12,272
Australia	3,660	4,030	4,495	3,422	3,299	<i>n.a.</i>
OTHER COUNTRIES						
France	4,845	4,441	4,055	4,262	4,642	5,120
Germany (Federal) ..	8,641	7,156	8,145	6,658	5,777	3,939
United States	36,587	36,037	41,053	46,391	49,540	44,887
Japan	9,142	9,201	10,183	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>

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

Long tons

Producing Country	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom (a) ..	24,178	23,007	25,395	24,738	26,750	22,859
OTHER COUNTRIES						
France	69,740	61,130	71,550	63,620	70,730	<i>n.a.</i>
United States (b) ..	36,346	36,623	38,361	39,932	45,914	39,500
Japan	7,157	5,822	6,802	5,643	6,699	9,690

(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		
1962	.. ..	12,104	1965	.. ..	15,199
1963	.. ..	10,837	1966	.. ..	18,804
1964	.. ..	12,991	1967	.. ..	16,671

EXPORTS OF ZINC*

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore and concentrates ..	2,192	1,382	1,138	18	10	43
Unwrought	7,048	(a) 8,792	(a) 5,852	(a) 1,234	(a) 1,099	(a) 11,124
Scrap	<i>n.a.</i>	1,080	2,752	270	178	649
Semi-manufactures (a) ..	(d) 7,218	4,338	5,513	6,182	4,951	4,159
Oxide	9,644	7,036	5,413	3,629	4,289	3,419
Lithopone, etc... ..	5,447	3,897	2,955	2,376	3,110	2,524
Nigeria—						
Ore and concentrates ..	—	—	200	1,875	1,501	10
Zambia (e)—						
Ores and concentrates ..	1,843	1,518	—	—	—	621
Unwrought	41,051	46,546	45,151	44,449	40,900	39,183
Canada—						
Ore (Zn content)	216,479	190,218	359,912	435,219	527,966	656,879
Unwrought	188,146	178,573	212,568	235,892	228,708	265,761
Scrap (a)	4,903	5,109	6,955	8,164	8,896	7,339
Oxide	1,563	—	—	—	—	—
Hong Kong—						
Unwrought (a)	—	—	100	—	—	—
Scrap	30	1	—	—	—	—
Semi-manufactures (a) ..	—	—	1	—	—	—
India (c)—						
Concentrates, etc. ..	11,653	9,765	7,364	2,663	—	—
Dross, scrap and ashes ..	140	1,102	2,665	817	2,212	2,171
Semi-manufactures (a) ..	67	184	231	4	20	38
Zinc white	112	336	455	708	372	464
Singapore—						
Unwrought	2	69	6	3	84	213
Semi-manufactures (a) ..	974	490	147	241	99	1,273
Oxide	286	467	341	343	245	293
Australia (b)—						
Ores and concentrates (Zn content)	145,035	153,818	131,690	110,370	139,386	140,198
Unwrought	73,148	98,730	83,534	84,658	99,182	114,038
Scrap	156	308	66	67	119	—
Semi-manufactures	1,943	801	2,023	2,258	979	433
Oxide	94	51	4	30	64	188
Irish Republic—						
Ores and concentrates ..	—	—	—	—	26,077	33,905
OTHER COUNTRIES						
Austria—						
Ore	21	—	1,562	53	—	—
Unwrought (a)	3,631	2,736	4,098	3,627	3,811	6,614
Scrap	84	859	1,001	514	57	25
Lithopone	2,034	2,060	2,496	2,463	1,822	1,912
Belgium-Luxemburg						
E.U.—						
Ore	75,661	50,306	20,704	12,053	12,556	26,429
Unwrought	110,074	120,874	124,740	127,609	144,993	134,020
Scrap	4,031	5,743	8,440	7,356	7,555	7,042
Semi-manufactures (a) ..	27,587	30,773	32,014	33,127	29,494	35,779
Lithopone, etc... ..	19,686	18,705	18,066	18,125	12,098	126

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

(a) Including alloys.

(b) Years ended June 30 of that stated.

(c) Years ended March 31 following that stated.

(d) Including unwrought alloys.

(e) Figures for years 1962 and 1963 relate to Rhodesia and Nyasaland.

EXPORTS OF ZINC (cont.)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Denmark—						
Unwrought	129	150	83	185	64	98
do. alloys	1,980	904	1,142	485	321	230
Scrap	1,836	1,917	2,195	1,778	2,063	3,208
Semi-manufactures	156	284	9	13	14	20
Finland—						
Concentrates	99,870	140,685	144,929	145,296	110,765	113,506
Unwrought	—	238	—	—	20	—
France—						
Ore	7,167	491	708	497	233	216
Unwrought	4,559	14,020	11,156	17,375	19,723	9,891
do. alloys	183	324	578	364	383	2,046
Semi-manufactures (a)	3,729	4,557	2,715	4,268	3,828	3,476
Oxide	4,309	4,536	4,016	4,643	7,459	7,378
Lithopone, etc. . . .	1,082	1,268	1,116	995	1,007	1,533
Germany (Federal)—						
Ore	12,737	32,574	43,503	45,555	49,993	88,967
Unwrought (a)	24,991	29,398	21,162	13,217	27,539	28,162
Scrap (a)	2,035	3,180	2,682	4,169	7,522	4,644
Semi-manufactures (a)	6,633	7,280	7,514	6,823	8,988	9,379
Zinc-white, zinc-grey	9,820	11,463	10,324	9,902	10,314	9,223
Lithopone	35,833	33,688	36,347	30,715	32,768	35,989
Greece—						
Ore and concentrates	30,647	18,766	22,053	23,603	20,410	23,947
Italy—						
Ore	65,663	39,049	48,484	28,946	40,503	21,906
Unwrought	2,088	297	1,064	1,401	52	39
Semi-manufactures (a)	376	304	454	140	349	403
Oxide	370	681	555	383	1,083	819
Lithopone, etc. . . .	3,543	3,420	2,664	2,166	3,073	3,078
Netherlands—						
Ore	3,819	3,809	8,032	5,729	4,373	7,603
Unwrought	20,893	23,064	25,378	22,213	22,825	34,900
do. alloys	47	46	35	122	43	36
Scrap (a)	7,681	7,829	9,140	9,969	10,162	7,923
Semi-manufactures (a)	1,173	1,279	1,332	1,366	1,086	1,117
Oxide	8,775	10,134	10,601	9,360	9,469	8,774
Lithopone, etc. . . .	10,207	10,224	11,890	10,314	12,045	13,270
Norway—						
Ore	14,961	14,276	14,377	19,225	15,895	14,995
Unwrought	31,641	32,335	38,089	35,655	39,114	35,552
do. alloys	1,347	783	1,252	1,533	1,096	1,234
Scrap	707	704	584	798	543	401
Semi-manufactures (a)	663	1,131	1,499	1,449	1,687	1,655
Zinc-white	614	766	299	195	219	180
Poland—						
Unwrought and sheets	82,870	87,400	96,200	95,600	71,633	70,912
Unwrought alloys	n.a.	7,955	8,338	7,869	8,765	5,644
Zinc-white	n.a.	n.a.	8,921	9,020	5,527	2,984
Lithopone	n.a.	468	424	n.a.	n.a.	n.a.
Portugal—						
Ore	—	385	718	8,300	5,596	970
Zinc-white	45	72	91	57	77	102
Spain—						
Ore	29,123	32,178	23,924	6,479	6,060	12,418
Unwrought (a)	23,469	23,437	19,057	10,637	1,915	13,654
Oxide	313	189	113	55	274	444
Sweden—						
Ore	147,158	146,049	146,258	146,261	158,650	115,931
Unwrought (a)	108	71	286	188	119	306
Scrap	1,738	1,080	1,476	1,457	1,392	1,007
Zinc-white	750	945	467	459	646	645
Lithopone	73	63	59	31	22	10

(a) Including alloys.

EXPORTS OF ZINC (cont.)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Switzerland—						
Unwrought and scrap ..	1,085	1,111	1,258	1,047	1,647	1,622
Semi-manufactures (a)	74	37	66	29	37	57
Zinc-white	1	2	1	11	1	2
U.S.S.R.—						
Concentrates	19,100	—	—	—	—	—
Unwrought	106,300	81,100	147,400	131,600	84,900	72,900
Yugoslavia—						
Concentrates	29,563	24,662	31,673	20,093	10,585	2,791
Unwrought	7,097	5,710	3,063	2,828	5,241	5,135
Semi-manufactures ..	6,791	8,674	10,553	10,040	11,947	10,483
Oxide	558	750	1,157	1,141	797	1,204
Lithopone	400	443	2,028	3,629	2,664	2,451
Algeria—						
Ore	67,509	57,352	51,596	66,604	14,763	<i>n.a.</i>
Congo Republic (c)—						
Ores and concentrates ..	60,000	75,000	85,000	85,000	85,338	65,000
Unwrought	60,000	45,000	45,000	35,000	30,000	16,000
Congo, Republic of—						
Ore	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	16,236	11,546	<i>n.a.</i>
Morocco—						
Ore	62,327	65,187	63,352	96,598	78,743	85,338
South Africa—						
Unwrought	12	—	9	23	22	—
Fume, dust, shavings, etc.	139	84	330	76	92	<i>n.a.</i>
South West Africa—						
Ores and concentrates (b)	38,191	38,421	33,617	31,693	35,054	<i>n.a.</i>
Tunisia—						
Ore	6,653	6,970	8,842	2,132	10,807	13,127
Greenland—						
Ore	10,213	—	—	—	—	—
Guatemala—						
Ore	4,288	2,919	831	853	1,228	12
Honduras—						
Ore and concentrates ..	9,631	10,561	10,689	19,340	9,592	9,725
Mexico—						
Ores and concentrates	393,102	351,785	270,107	307,449	305,076	275,591
Unwrought	28,946	28,911	28,710	25,453	32,091	32,563
Oxide	1,281	2,619	3,201	6,428	7,861	7,658
United States—						
Ore and concentrates (b)	122	15	35	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Unwrought	32,233	30,226	23,675	6,438	2,386	15,682
Scrap (b)	7,090	1,602	5,757	5,015	3,990	1,487
Semi-manufactures (a)	5,211	5,398	10,924	5,903	5,973	4,439
Oxide	1,840	2,644	2,174	2,375	7,461	3,071
Lithopone	312	749	1,057	544	2,694	723
Argentina—						
Ore	19,372	46,624	29,383	2,629	—	—
Unwrought	—	3,134	1,070	146	2	918
Bolivia—						
Ores (b)	3,588	4,574	9,604	13,472	16,438	16,433
Chile—						
Concentrates	103	<i>n.a.</i>	<i>r</i> 3,653	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Peru—						
Ores, etc. (Zn content) ..	142,088	145,800	199,557	208,644	212,086	228,631
Unwrought (Zn content)	36,710	38,179	71,074	54,836	47,797	63,892

(a) Including alloys.

(b) Zn content.

(c) Estimated.

EXPORTS OF ZINC (cont.)

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Burma—						
Concentrates	15,462	16,002	15,407	14,310	<i>n.a.</i>	<i>n.a.</i>
Iran (a)—						
Ore	14,970	24,704	73,062	96,244	76,322	39,488
Japan—						
Unwrought	293	1,121	5,320	54,529	58,213	64,713
Semi-manufactures	176	784	844	1,054	2,161	3,407
Oxide	49	157	170	332	1,137	807
Lithopone	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	205	323	398
Korea (South)—						
Ore	714	3,094	5,878	13,694	31,666	21,967
Philippine Republic—						
Concentrates	7,431	11,779	4,811	3,848	<i>n.a.</i>	<i>n.a.</i>
Turkey—						
Ore	7,261	837	1,896	7,712	16,335	8,532

(a) Years ended March 20 following that stated.

IMPORTS OF ZINC*

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom—						
Ore and concentrates ..	188,130	212,113	303,531	229,273	234,709	254,945
Unwrought	142,109	(a) 159,171	(a) 187,109	(a) 185,268	(a) 178,698	(a) 159,515
Waste and scrap	n.a.	2,713	2,298	1,944	1,214	3,905
Semi-manufactures (a) ..	(c) 1,027	848	601	288	600	587
Oxide	n.a.	n.a.	189	425	302	332
Lithopone, etc. . . .	1,867	2,083	2,251	1,089	1,528	1,389
Malta—						
Semi-manufactures ..	(£7,454)	(£9,161)	(£7,376)	(£11,409)	(£14,222)	(£9,373)
Ghana—						
Unwrought (a)	47	42	29	977	303	838
Semi-manufactures (a) ..	19	56	30	52	16	40
Kenya—						
Unwrought (a)	204	1,379	1,419	1,206	1,166	1,006
Semi-manufactures (a) ..	—	16	8	9	3	23
Nigeria—						
Unwrought and semi-manufactures (a) ..	37	37	950	1,948	846	2,500
Rhodesia (d)—						
Semi-manufactures (a) ..	86	537	1,085	757	n.a.	n.a.
Tanzania—						
Unwrought (a)	5	301	1,407	2,015	1,153	1,154
Semi-manufactures (a) ..	26	23	25	19	15	42
Uganda—						
Unwrought	—	—	7	241	1,275	1,229
Semi-manufactures (a) ..	16	3	5	14	8	—
Canada—						
Ore and concentrates ..	n.a.	n.a.	12,063	7,964	n.a.	n.a.
Unwrought (a)	634	571	19	15	112	951
Semi-manufactures (a) ..	1,477	1,749	2,390	2,027	1,833	1,671
Zinc-white	2,443	1,993	1,045	976	1,442	1,521
Lithopone	—	—	481	512	194	282
Barbados—						
Semi-manufactures (a) ..	11	7	5	9	2	26
Jamaica—						
Semi-manufactures (a) ..	39	91	79	20	17	7
Trinidad and Tobago—						
Semi-manufactures (a) ..	48	32	36	18	21	23
Ceylon—						
Unwrought (a)	85	182	85	274	151	546
Semi-manufactures (a) ..	74	35	19	49	138	87
Cyprus—						
Semi-manufactures (a) ..	49	46	55	60	63	208
Hong Kong—						
Unwrought (a)	3,978	3,357	6,164	1,240	3,614	4,398
Scrap	37	77	265	62	27	100
Semi-manufactures (a) ..	380	369	401	233	516	350
Oxide	777	640	716	632	686	668
Lithopone	1,271	1,079	1,272	1,097	1,293	593
India (b)—						
Ore and concentrates ..	—	—	—	—	19,764	512
Unwrought	83,847	79,856	65,345	68,430	35,718	54,297
do. alloys	2,306	3,023	3,600	7,060	9,636	8,899
Semi-manufactures (a) ..	1,292	1,140	1,115	3,452	1,956	1,671
Zinc-white	2	182	102	172	31	46
Lithopone	474	501	343	689	802	617
Malaysia (West)—						
Ore	n.a.	n.a.	n.a.	1,228	833	2,251
Unwrought (a)	n.a.	n.a.	n.a.	1,228	1,533	1,200
Semi-manufactures (a) ..	n.a.	n.a.	n.a.	148	47	1,204

*See footnote on p. 390 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 1962 and 1963 relate to Rhodesia and Nyasaland.

IMPORTS OF ZINC (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES (cont.)						
Pakistan—						
Unwrought (a)	220	2,781	4,960	n.a.	n.a.	n.a.
Zinc-white	499	378	15	n.a.	n.a.	n.a.
Lithopone	1,832	1,557	1,369	n.a.	n.a.	n.a.
Singapore—						
Unwrought	7	16	192	2,532	4,354	4,428
Semi-manufactures (a)	753	597	272	248	387	330
Oxide	366	500	457	384	418	555
Sarawak—						
Semi-manufactures (a)	935	303	126	67	102	69
Australia (b)—						
Ore and concentrates ..	n.a.	n.a.	n.a.	n.a.	5,083	6,210
Unwrought and semi-manufactures (a) ..	1,687	1,839	195	273	(c) 177	(c) 198
Lithopone	1,454	1,497	1,073	1,142	927	976
New Zealand—						
Unwrought (a)	2,580	} (b) 3,048	{ (b) 3,227	(b) 4,666	(b) 4,220	(b) 3,983
Semi-manufactures (a)	459			(b) 592	(b) 698	(b) 905	(b) 787
Oxide	101	(b) 1	(b) 10	(b) 2	(b) 8	(b) 2
Lithopone	133	(b) 134	(b) 94	(b) 131	(b) 146	(b) 117
Irish Republic—						
Unwrought (a)	2,729	2,733	3,439	3,286	3,203	3,603
Semi-manufactures (a)	149	164	312	264	200	252
OTHER COUNTRIES						
Albania—						
Oxide	279	157	—	169	n.a.	n.a.
Austria—						
Ore	12,921	12,441	13,366	12,421	12,253	13,039
Unwrought (a)	5,913	5,541	8,293	7,286	7,182	5,488
Semi-manufactures (a)	443	422	502	548	627	626
Zinc-white and zinc-grey	721	483	512	445	477	518
Lithopone	96	372	221	289	391	498
Belgium-Luxemburg						
E.U.—						
Ore	440,448	416,148	442,420	501,723	530,130	517,386
Unwrought	35,155	24,023	25,719	12,087	11,447	14,020
Scrap	1,186	405	1,012	1,400	693	879
Semi-manufactures (a)	201	430	958	393	544	921
Oxide	1,799	2,013	1,991	1,774	1,862	2,070
Lithopone, etc.	1,349	1,361	1,646	1,636	2,497	4,105
Denmark—						
Unwrought	10,770	8,765	11,231	11,336	9,551	8,513
do. alloys	238	636	254	183	340	333
Scrap	63	67	89	91	186	108
Semi-manufactures (a)	6,740	5,084	6,449	6,744	6,422	7,542
Zinc-white	1,496	1,428	1,467	1,370	1,531	1,684
Lithopone	2,020	2,060	1,843	1,810	1,756	1,584
Finland—						
Unwrought (a)	4,642	5,770	3,781	7,769	6,985	6,629
Scrap	—	—	—	2	6	6
Semi-manufactures (a)	501	302	523	467	552	600
Zinc-white	424	403	268	417	313	326
Lithopone	1,786	1,737	1,767	1,517	1,457	1,119
France—						
Ore	293,211	276,635	362,325	326,980	342,758	326,894
Unwrought	31,881	20,207	21,767	13,636	24,207	30,064
Scrap	10,542	13,156	18,585	16,937	18,430	14,868
Semi-manufactures (a)	4,665	6,528	6,918	6,856	7,912	8,958
Oxide	883	1,341	2,219	1,725	1,233	1,415
Lithopone, etc.	20,134	21,385	23,592	19,499	17,805	12,092

(a) Including alloys.

(b) Years ended June 30 of that stated.

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

IMPORTS OF ZINC (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Germany (Federal)—						
Ores	131,494	122,680	143,539	118,840	162,081	147,583
Unwrought (a) ..	126,580	133,960	164,635	181,395	124,797	139,642
Scrap (a)	851	780	535	540	615	642
Semi-manufactures (a)	12,154	14,795	14,731	20,979	18,643	22,028
Zinc-white and zinc-grey	3,438	3,763	5,292	4,470	3,922	2,357
Lithopone	3,160	2,867	2,816	3,042	3,098	2,144
Greece—						
Unwrought	5,260	4,905	5,537	5,493	7,817	7,375
Semi-manufactures (a)	257	357	179	219	149	260
Zinc-white	246	485	395	362	340	433
Lithopone	3,230	3,606	3,921	3,718	4,158	4,080
Hungary—						
Crude	9,897	10,777	11,630	13,162	14,176	13,086
Iceland—						
Unwrought (a) ..	22	12	12	8	15	17
Semi-manufactures (a)	63	61	80	77	56	64
Zinc-white	57	37	17	17	13	6
Italy—						
Ore	1,075	8,922	1,024	23	4,558	21,079
Unwrought	26,412	28,952	41,636	33,235	54,368	64,964
do. alloys	2,504	1,879	1,162	6,644		
Scrap	5,165	7,005	4,473	3,876	7,002	7,913
Semi-manufactures (a)	2,531	3,683	2,964	2,997	3,312	3,443
Oxide	684	2,281	3,526	2,549	3,022	2,903
Lithopone, etc... ..	294	757	1,399	1,225	751	385
Netherlands—						
Ore	72,593	75,554	103,926	83,802	84,376	81,229
Unwrought	14,308	13,490	13,482	15,548	14,376	16,110
do. alloys	2,194	2,165	2,102	1,758	1,491	1,597
Scrap	317	424	249	1,262	1,997	210
Semi-manufactures (a)	4,879	6,458	7,876	6,768	6,122	6,604
Oxide	1,568	1,768	1,838	2,061	1,490	1,661
Lithopone, etc... ..	1,926	1,986	2,714	2,543	1,838	1,354
Norway—						
Ore	68,368	83,521	77,485	101,521	85,712	80,260
Unwrought	2,259	1,720	2,234	5,207	1,171	1,571
Scrap	474	941	774	1,068	1,366	1,676
Semi-manufactures (a)	2,857	2,629	2,414	1,946	1,906	1,942
Zinc-white	588	451	568	904	1,112	1,042
Lithopone, etc... ..	354	235	242	224	144	159
Poland—						
Concentrates	122,000	146,200	164,600	143,824	99,298	105,580
Portugal—						
Unwrought and scrap ..	4,552	5,008	4,979	6,010	5,006	6,374
Semi-manufactures ..	241	264	296	260	254	313
Oxide	486	436	299	291	282	195
Lithopone	2,234	2,113	2,741	2,724	2,204	2,296
Spain—						
Unwrought and scrap ..	—	1	11	1,026	4,889	113
Semi-manufactures (a)	36	13	29	106	267	71
Oxide	49	79	113	145	523	195
Lithopone	213	151	429	625	960	1,250
Sweden—						
Unwrought	33,174	25,134	26,059	31,470	27,116	31,207
do. alloys	2,729	2,442	2,579	3,749	2,294	2,775
Scrap	231	55	61	72	29	89
Semi-manufactures (a)	1,122	1,281	1,617	1,649	1,580	1,532
Zinc-white	4,053	3,541	3,355	3,454	2,347	1,873
Lithopone, etc... ..	4,466	4,348	3,927	3,110	2,506	2,665

(a) Including alloys.

IMPORTS OF ZINC (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Switzerland—						
Unwrought	19,997	20,082	20,342	25,301	22,784	24,114
Semi-manufactures (a)	3,018	3,551	3,125	3,456	3,263	4,303
Zinc-white	1,811	1,560	1,820	1,651	1,398	1,287
U.S.S.R.—						
Unwrought	50,800	49,200	70,600	57,900	16,000	29,230
do. alloys	5,708	5,905	5,807	5,800	5,400	4,000
Semi-manufactures ..	4,134	3,937	3,838	3,900	3,900	700
Yugoslavia—						
Unwrought	—	2,090	1,604	2,961	1,646	2,197
Semi-manufactures ..	7	75	182	140	241	329
Oxide	19	785	1,451	564	710	n.a.
Lithopone	49	507	601	506	n.a.	1,269
Angola—						
Semi-manufactures (a)	93	57	90	114	111	289
Oxide	49	42	59	44	35	52
Egypt—						
Unwrought	2,088	2,411	1,954	509	491	n.a.
Semi-manufactures ..	330	n.a.	n.a.	n.a.	n.a.	n.a.
Zinc-white	73	n.a.	n.a.	n.a.	n.a.	n.a.
Malagasy Republic—						
Semi-manufactures (a)	126	87	76	53	105	108
Oxide	4	—	6	28	15	2
Morocco—						
Unwrought	613	557	454	576	567	731
Semi-manufactures (a)	187	284	240	151	253	251
Oxide	562	560	566	496	479	432
Lithopone	977	1,358	1,217	969	1,273	1,386
Mozambique—						
Semi-manufactures ..	29	25	9	27	48	n.a.
Oxide	65	93	88	54	78	n.a.
South Africa—						
Unwrought	26,667	33,767	41,385	36,628	38,406	48,123
Semi-manufactures ..	255	154	943	694	382	1,124
Lithopone	1,233	1,097	1,458	1,473	1,498	1,512
Oxide	154	270	389	115	150	185
Sudan—						
Unwrought	8	20	—	—	—	—
Semi-manufactures ..	94	195	58	166	54	9
Tunisia—						
Unwrought and scrap (a)	94	25	—	108	59	96
Semi-manufactures (a)	67	80	86	93	98	128
Oxide	157	144	200	205	244	394
Mexico—						
Semi-manufactures ..	30	32	45	43	48	80
Oxide	34	43	45	39	46	100
Nicaragua—						
Semi-manufactures ..	273	65	38	721	1,078	147
United States—						
Ore (Zn content) ..	345,822	332,071	278,067	363,540	357,343	386,880
Unwrought	121,425	118,154	119,748	138,829	249,589	197,607
Dross and scrap ..	2,471	2,568	3,371	4,198	1,814	1,308
Semi-manufactures ..	1,986	3,696	5,003	1,684	3,031	4,068
Oxide	11,509	12,377	7,546	10,264	12,939	12,292
Lithopone	87	142	154	170	162	104
Argentina—						
Unwrought	84	428	439	2,490	2,138	326
Sheets and plates ..	102	63	71	35	25	—
Zinc-white	4	2	10	6	18	26

(a) Including alloys.

IMPORTS OF ZINC (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Brazil—						
Unwrought (a) ..	41,567	38,288	30,222	31,075	40,780	35,876
Semi-manufactures (a) ..	545	17	344	3	3	—
Zinc-white	82	120	70	300	59	38
Lithopone	9,621	7,708	6,483	5,982	5,447	3,441
Chile—						
Unwrought	3,524	5,238	r 7,756	6,393	n.a.	n.a.
Bars and sheets (a) ..	108	285	r 221	187	n.a.	n.a.
Zinc-white	7	1	r —	31	n.a.	n.a.
Lithopone	—	10	r 18	20	n.a.	n.a.
Colombia—						
Unwrought (a) ..	1,223	4,739	4,301	2,311	7,564	2,296
Semi-manufactures (a) ..	403	148	168	95	49	744
Zinc-white	1,209	1,642	1,121	7	31	16
Lithopone	577	790	489	186	549	196
Peru—						
Semi-manufactures (a) ..	248	284	196	242	243	103
Zinc-white	25	21	15	72	25	—
Lithopone	417	337	414	374	230	—
Uruguay—						
Unwrought and sheets ..	n.a.	n.a.	n.a.	735	1,037	868
Lithopone	n.a.	n.a.	n.a.	282	250	270
Zinc-white	n.a.	n.a.	n.a.	7	n.a.	n.a.
Venezuela—						
Unwrought	162	301	2,987	4,006	5,250	4,619
Oxide	766	784	983	813	668	702
Lithopone	523	400	490	422	406	490
Burma—						
Unwrought	—	22	318	433	n.a.	n.a.
Semi-manufactures (a) ..	505	327	188	—	n.a.	n.a.
Formosa—						
Unwrought (a) ..	3,000	3,740	4,132	5,631	6,765	n.a.
Semi-manufactures (a) ..	263	145	254	539	216	n.a.
Lithopone	1,325	1,394	1,238	1,375	1,052	n.a.
Indonesia—						
Unwrought and scrap ..	520	n.a.	n.a.	n.a.	n.a.	n.a.
Semi-manufactures (a) ..						
Iran (b)—						
Unwrought	383	157	166	448	731	1,757
Semi-manufactures (a) ..	446	85	66	75	173	1,725
Oxide	294	448	314	488	n.a.	n.a.
Lithopone	1,459	1,717	1,242	973	1,178	1,410
Iraq—						
Semi-manufactures ..	93	15	21	n.a.	n.a.	n.a.
Israel—						
Unwrought (a) ..	1,896	2,019	2,748	3,484	2,678	3,673
Semi-manufactures ..	631	401	291	402	276	433
Oxide	522	423	612	592	368	424
Japan—						
Ore	142,414	145,176	283,891	374,325	439,066	604,380
Unwrought	8,007	8,271	67,948	6,938	7,529	17,815
Scrap	64	27	43	11	84	95
Semi-manufactures (a) ..	33	79	21	81	—	10
Korea (South)—						
Unwrought	4,938	10,302	4,741	8,791	6,748	4,527
Semi-manufactures ..						
Lithopone						
	1,428	1,500	1,761	1,558	981	2,259

(a) Including alloys.

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

IMPORTS OF ZINC (cont.)

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
OTHER COUNTRIES						
<i>(cont.)</i>						
Lebanon—						
Unwrought	777	690	655	581	926	447
Semi-manufactures	146	248	65	89	65	49
Oxide and lithopone	66	57	105	90	130	100
Philippine Republic—						
Unwrought (a)	7,624	7,694	10,199	10,785	<i>n.a.</i>	<i>n.a.</i>
Semi-manufactures (a)	1,225	1,541	2,253	534	<i>n.a.</i>	<i>n.a.</i>
Oxide	1,009	880	676	780	<i>n.a.</i>	<i>n.a.</i>
Lithopone	159	422	423	209	<i>n.a.</i>	<i>n.a.</i>
Syria—						
Oxide and lithopone	657	568	869	505	(b) 177	46
Thailand—						
Unwrought (a)	7,089	9,147	10,341	8,930	11,412	16,387
Semi-manufactures (a)	1,715	1,595	1,660	1,594	2,448	2,128
Oxide	299	343	392	576	650	690
Lithopone	707	538	653	912	884	1,226
Turkey—						
Unwrought	3,339	1,920	2,238	5,322	3,102	4,010
Semi-manufactures (a)	2,500	3,289	2,728	2,388	2,708	2,028
Oxide	1,803	1,718	2,088	2,426	2,325	2,537
Lithopone	140	73	129	5	<i>n.a.</i>	—

(a) Including alloys.

(b) Oxide only.

ZIRCONIUM MINERALS

PRODUCTION OF ZIRCONIUM MINERALS

Long tons

Producing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Nigeria	—	791	153	—	—	<i>n.a.</i>
Ceylon (b)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	(a) 2	151	119
Malaysia (West) (a)	60	258	145	582	774	465
Australia—						
Zircon concentrates	133,844	184,830	184,082	226,863	235,649	292,339
OTHER COUNTRIES						
Egypt	168	39	40	—	383	49
Malagasy Republic	348	382	504	634	693	205
Senegal	2,299	3,022	546	—	—	—
South Africa	6,769	2,364	—	—	—	—
Brazil (b)	2,359	350	508	485	487	413

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):

1962—1,136; 1963—912; 1964—*n.a.*; 1965—*n.a.*; 1966—*n.a.*; 1967—*n.a.*

(a) Exports.

(b) Zircon and baddeleyite.

EXPORTS OF ZIRCONIUM MINERALS, ETC.

Long tons

Exporting Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
Nigeria—						
Ores and concentrates	(a) 495	876	—	20	—	536
Ceylon—						
Baddeleyite	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	2	<i>n.a.</i>	<i>n.a.</i>
Malaysia (West)—						
Zircon	60	258	145	582	774	465
Australia—						
Zircon concentrates	131,843	179,697	198,664	216,661	210,428	247,179
OTHER COUNTRIES						
Germany (Federal)—						
Ore	575	567	1,669	1,252	777	710
Malagasy Republic	3	<i>n.a.</i>	—	3	123	—
Senegal—						
Zircon	2,054	3,247	—	—	—	—
South Africa—						
Zircon concentrates	5,950	2,504	71	2	—	—
United States—						
Ores and concentrates	1,487	1,266	2,232	1,573	2,063	2,437
Zirconium metal, etc.	97	131	238	95	57	35

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

IMPORTS OF ZIRCONIUM MINERALS, ETC.

Long tons

Importing Country and Description	1962	1963	1964	1965	1966	1967
COMMONWEALTH COUNTRIES						
United Kingdom— Zirconium ores ..	32,924	32,356	49,351	42,140	36,885	24,721
Canada— Zirconium alloys ..	<i>n.a.</i>	<i>n.a.</i>	8	10	12	56
Zirconium oxide ..	(£19,503)	(£20,172)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Zirconium silicate ..	(£73,485)	(£105,702)	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
OTHER COUNTRIES						
France— Zirconium ore ..	18,641	19,374	22,695	29,349	27,562	17,618
Germany (Federal)— Zirconium ore ..	23,568	25,176	28,661	25,084	26,285	22,229
Italy— Zirconium ore ..	7,450	10,980	13,029	11,603	14,260	17,523
United States— Zirconium ore ..	27,565	46,913	39,655	52,563	51,765	52,950
Zirconium metal ..	1	—	24	16	<i>n.a.</i>	73
Brazil— Zirconium ore ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1,000	2,084
Japan— Zirconium ore ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	25,571	29,583	51,691
Turkey— Zirconium ore ..	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	116

OTHER MINERALS AND METALS

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

Country and Description	1962	1963	1964	1965	1966	1967
Germanium (in terms of metal)						
PRODUCTION*—						
Congo Republic Lb.	17,650	16,060	18,230	32,271	33,003	763
South West Africa Lb.	79,505	31,132	—	—	1,854	<i>n.a.</i>
United States (b) Lb.	37,000	20,000	15,000	30,000	30,000	30,000
EXPORTS—						
Italy Lb.	527	<i>n.a.</i>	53	1,512	3,086	6,834
South-West Africa Lb.	79,505	468	11,434	7,023	5,710	<i>n.a.</i>
IMPORTS—						
Italy Lb.	511	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	881	1,323
Indium						
PRODUCTION†—						
Japan Troy ounces	150,700	150,800	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Nepheline Syenite						
PRODUCTION—						
Canada Ton	227,159	226,786	259,196	303,555	327,407	362,766
Norway Ton	19,625	21,653	30,258	40,369	56,401	64,180
EXPORTS—						
Canada Ton	172,909	181,484	202,653	220,714	235,379	274,654
IMPORTS—						
United Kingdom £	206,721	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Mexico Ton	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	84	102	161
United States .. Ton	168,635	175,749	183,656	193,724	226,281	256,837
Perlite						
PRODUCTION—						
United Kingdom Ton	1,730	3,895	1,765	255	258	116
Australia .. Ton	608	—	489	764	1,544	1,389
New Zealand .. Ton	387	564	914	1,124	1,028	1,055
Greece Ton	29,209	28,879	39,142	80,586	102,799	<i>n.a.</i>
Morocco Ton	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	243	—	<i>n.a.</i>
Mexico Ton	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	8,217	9,936	<i>n.a.</i>
United States .. Ton	364,000	361,000	381,000	448,000	489,000	570,000
Turkey Ton	700	1,000	1,200	<i>n.a.</i>	<i>n.a.</i>	20
EXPORTS—						
Greece Ton	16,622	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
IMPORTS—						
United Kingdom £	287,414	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Sodium Carbonate (Natural)						
PRODUCTION—						
Kenya Ton	122,120	101,870	80,380	81,880	110,624	103,100
United States (a) Ton	873,000	999,000	1,138,000	1,334,000	1,552,000	1,543,000
EXPORTS—						
Kenya Ton	111,201	106,873	63,997	73,501	105,065	96,777
Sudan Ton	75	345	149	421	7	61

*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	1962	1963	1964	1965	1966	1967
Sodium Sulphate (Natural)						
PRODUCTION—						
Canada Ton	220,243	229,387	297,556	308,454	361,887	379,494
Spain Ton	20,373	32,936	41,815	40,757	<i>n.a.</i>	<i>n.a.</i>
United States (d) Ton	409,000	388,000	513,000	554,000	571,000	569,000
Chile Ton	12,781	31,909	30,200	55,448	33,625	17,928
Argentina .. Ton	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	15,959	21,557	27,181
Turkey Ton	4,699	1,244	2,387	4,885	7,306	8,968
EXPORTS—						
Canada Ton	66,115	58,346	95,820	103,571	90,551	110,565
Tellurium						
PRODUCTION—						
Canada Lb.	58,725	76,842	77,782	69,794	72,239	82,098
United States (a) Lb.	264,000	201,000	145,000	195,000	199,000	135,000
Peru Lb.	50,473	26,634	46,757	36,045	39,654	<i>n.a.</i>
Japan Lb.	23,168	13,256	7,573	20,126	22,701	29,760
EXPORTS—						
Germany (Federal) Lb.	5,952	1,543	441	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Peru Lb.	9,202	2,121	22,992	62,131	113,421	25,199
IMPORTS—						
Germany (Federal) Lb.	22,000	8,800	14,100	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
Spain Lb.	<i>n.a.</i>	639	573	3,166	3,161	4,377
Wollastonite						
PRODUCTION—						
Kenya Ton	—	—	—	—	—	12
New Zealand .. Ton	6	9	14	54	—	—
Finland Ton	2,382	2,091	3,000	2,355	3,813	3,445
South West Africa Ton	—	—	116	205	330	<i>n.a.</i>
Mexico (b) .. Ton	5,000	5,000	5,000	5,000	5,000	<i>n.a.</i>
United States—						
Industrial	(c)	(c)	(c)	(c)	(c)	(c)
Ornamental .. Ton	2,400	2,679	3,237	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>
EXPORTS—						
South West Africa Ton	—	—	<i>n.a.</i>	232	56	<i>n.a.</i>

- (a) Including tellurium content of compounds.
(b) Estimated.
(c) In the range 30,000 to 40,000 tons per annum.
(d) Sold or used by producers.

MINERALS PRODUCED IN COUNTRIES OF THE COMMONWEALTH AND STERLING AREA

The following list comprises those minerals produced in Commonwealth and Sterling Area countries during the period 1962-1967 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;">Abu Dhabi (Protected State)</p> <p>Petroleum</p> <p style="text-align: center;">Aden</p> <p>Salt</p> <p style="text-align: center;">Australia</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;">Bahamas</p> <p>Salt</p>	<p style="text-align: center;">Bahrein (Protected State)</p> <p>Petroleum</p> <p style="text-align: center;">Barbados</p> <p>Natural gas Petroleum</p> <p style="text-align: center;">Botswana</p> <p>Asbestos Gold Manganese Silver</p> <p style="text-align: center;">Brunei</p> <p>Natural gas Natural gasoline Petroleum</p> <p style="text-align: center;">Canada</p> <p>Arsenic Asbestos Barytes Bentonite Bismuth Cadmium Coal Cobalt Copper Diatomaceous earth Feldspar Fluorspar Garnet Gold Graphite Gypsum, Anhydrite Indium Iron Lead Lithium Magnesite, Dolomite Mercury Mica Molybdenum Natural gas Natural gasoline Nepheline syenite Nickel Niobium Petroleum Platinum Potash salts Pyrites Salt Selenium Silver Sodium sulphate</p>	<p style="text-align: center;">Canada—(cont.)</p> <p>Sulphur Talc Tantalite, Columbite Tellurium Thorium Tin Titanium Tungsten Uranium Zinc</p> <p style="text-align: center;">Ceylon</p> <p>China clay Feldspar Graphite Ilmenite Magnesite, Dolomite Monazite Salt Zircon</p> <p style="text-align: center;">Christmas Island</p> <p>Phosphate</p> <p style="text-align: center;">Cyprus</p> <p>Asbestos Bentonite Chrome Cobalt Copper Gypsum Pyrites Salt</p> <p style="text-align: center;">Fiji</p> <p>Gold Iron Manganese Silver</p> <p style="text-align: center;">Ghana</p> <p>Bauxite Diamonds Gold Manganese Salt Silver</p> <p style="text-align: center;">Guyana</p> <p>Bauxite Diamonds Gold Manganese</p> <p style="text-align: center;">Hong Kong</p> <p>China clay Feldspar Graphite Iron Tungsten</p>
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Minerals produced in countries of the Commonwealth and Sterling Area (cont.)

<p>India Asbestos Barytes Bauxite Bentonite Beryl Bromine 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</p>	<p>Kuwait (Protected State) Petroleum</p> <p>Lesotho Diamonds</p> <p>Malaysia (West) Bauxite China clay Columbite Gold Iron Manganese Monazite Tin Titanium Tungsten Zircon</p> <p>Malta Salt</p> <p>Mauritius Salt</p> <p>Nauru Island Phosphate</p> <p>New Guinea Gold Platinum Silver</p> <p>New Hebrides Manganese</p> <p>New Zealand Asbestos Bentonite Coal Copper Diatomaceous earth Gold Iron Magnesite, Dolomite Natural gas Natural gasoline Perlite Petroleum Pumice Salt Silver Tungsten Wollastonite</p> <p>Nigeria China clay Coal Gold Lead Molybdenum Monazite, Thorite Natural gas Petroleum Salt Tantalite, Columbite Tin Tungsten Zircon</p>	<p>Ocean Island Phosphate</p> <p>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</p> <p>Papua Gold Manganese</p> <p>Qatar (Protected State) Petroleum</p> <p>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 Silver Talc Tantalite Tin Tungsten</p> <p>St. Kitts Salt</p>
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Minerals produced in countries of the Commonwealth and Sterling Area (cont.)

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

Bentonite
China clay
Coal
Copper
Corundum
Diamonds
Gold
Gypsum
Lead
Magnesite
Mica
Niobium
Phosphate
Salt
Silver
Tin
Tungsten
Vermiculite

Trinidad

Gypsum
Natural asphalt
Natural gas
Natural gasoline
Petroleum
Sulphur

Turks and Caicos Islands

Salt

Uganda

Beryl
Bismuth
Cobalt
Copper
Gold
Lithium

Uganda—(cont.)

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

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

Burma

Antimony
Barytes
Bismuth
Coal
Copper
Gold
Gypsum

Burma—(cont.)

Iron
Lead
Nickel
Petroleum
Salt
Silver
Talc
Tin
Tungsten
Zinc

Iceland

Pumice

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
Feldspar
Fluorspar
Fuller's earth
Gadolinite
Garnet
Gold
Graphite
Gypsum
Iron
Lead
Lithium
Magnesite
Manganese
Mica
Monazite
Nickel
Phosphate

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

South Africa—(cont.)

Platinum, Osmiridium
Pyrites
Salt
Silver
Sillimanite, Andalusite
Sulphur
Talc
Tantalite
Tin
Titanium
Tungsten
Uranium
Vanadium
Vermiculite
Zinc
Zircon

South West Africa

Arsenic
Beryl
Bismuth
Cadmium
Copper
Diamonds
Feldspar
Fluorspar
Germanium
Gold
Graphite
Iron
Lead
Lithium
Manganese
Mica

South West Africa

—(cont.)
Phosphate
Salt
Sillimanite, Kyanite
Silver
Tantalite, Columbite
Tin
Tungsten
Vanadium
Wollastonite
Zinc

INDEX

- Abrasives 1-10
Alumina, aluminium oxide 2, 4, 13-24
Aluminium 12-24
Aluminium sulphate 13-24
Alunite 313
Amblygonite 190, 191
Ammonia and compounds 84-87, 229-241
Amosite 33
Andalusite 339, 340
Anhydrite 141, 348
Anthophyllite 33
Anthracene 84-87
Anthracite 77-80, 88-99
Antimony 25-28
Antimony compounds 26-28
Apatite 292, 293, 300, 304
Arsenic and compounds 29-32
Asbestos 33-41
Asphalt 246-291
Aviation fuels 247-291
- Baddeleyite 400
Barium compounds 43-47
Barium minerals 42-47
Barytes 42-47
Basic slag 298-305
Bauxite 11, 13-24
Bentonite 48, 49
Benzene, benzol 84-87
Beryl 50, 51
Biotite 213
Bismuth 52-54
Bitumen 247-289
Bituminous coal 77-80, 88-98
Blanc fixe 43, 45
Borax 56-59
Borates 55-59
Boric acid 55-59
Bort 119-122
Bromine and compounds 60-62
Brown coal 77-79, 89-90, 94-96
Brown coal briquettes 83, 89, 90, 95, 96
- Cadmium 63-65
Cadmium compounds 64-65
Carbolic acid 86
Carborundum 3-10
Carnallite 313
Celestite 347
Cement 66-68
Ceresin 261-288
Cerium 327
China clay 69-71
China stone 71, 126
Chrome ore and chromium 72-76
Chrysotile 33
Coal 77-80, 88-99
Coal briquettes 83, 89-99
Coal by-products 84-99
Cobalt 100-102
Cobalt compounds 100-102
Coke 81-82, 88-99
- Columbite 357-358
Copper 103-116
Copper sulphate 106-116
Cornish stone 71
Corundum 1-10
Creosote 84-87
Cresol, cresylic acid 84-87
Crocidolite 33
Cryolite 11, 14-23
Cupreous pyrites 103, 106, 112, 322-324
Cyanamide 229-241
- Damourite 213
Diamonds 117-122
Diatomaceous earth 123-125
Diesel oil 247-291
Dolomite 192-201
- Emery 1-10
Eucryptite 190
- Feldspar 126, 127
Ferro-alloys 155-159, 165-176
Fluorspar 128, 129
Fuel oil 247-291
Fuller's earth 130
- Gadolinite 326
Garnet 1, 2, 4, 6, 7
Gas oil 247-291
Germanium 402
Gilsonite 246, 290
Gold 131-136
Grahamite 246, 265
Graphite 137-140
Grindstones, grinding wheels 1-10
Guano 292, 293, 299-302
Gypsum 141-146
- Hematite, 151, 156, 157, 170, 172
Helium 245
- Ilmenite 369-374
Impsonite 246
Indium 402
Iodine 147-148
Iridium, osmiridium 307-311
Iron and steel 149-176
Iron ore 149-154
- Jet fuels 247-291
"Juss" 142
- Kainite 312-321
Kaolin 69-71
Kerosine 247-291
Kieserite 195, 200
Kyanite 339, 340
- Lead 177-189
Lepidolite 190, 191
Lignite 77-80, 88-98
Limonite 151

Index (cont.)

- Litharge 185
Lithium minerals 190, 191
Lithopone 390-399
Lubricating oil 247-291
- Magnesite 192-201
Magnesium 194-201
Magnesium compounds 195-201
Magnetite 151
Manganese 202-208
Mercury 209-212
Mica 213-219
Microlite 357
Millstones 1-10
Mineral jelly, wax 247-291
Mispickel 29, 52, 322
Moler 123, 124
Molybdenum 220-222
Monazite 326-328
Motor spirits 247-291
Mullite 339
Muscovite 213
- Naphthalene 84-87
Natural gas 245, 257-287
Natural gasoline 244
Nepheline syenite 402
Nickel 223-228
Niobium 357-359
Nitrogen compounds 229-241
- Oil-shale 246
Osmium, osmiridium 307-311
Ozokerite 261-288
- Palladium 307-311
Paraffin wax 247-291
Pechkohle 78
Perlite 402
Petalite 190, 191
Petroleum coke 247-290
Petroleum, crude 242, 243, 256-291
Petroleum products 247-291
Phenol 84-87
Phlogopite 213
Phosphates 292-306
Pig-iron 155-159, 165-176
Pitch 84-87 (coal), 261-290 (petroleum)
Platinum 307-311
Potash 312-321
Pumice 1-10
Pyridin 84, 85
Pyrites 322-325
Pyrites (burnt) 152-154
Pyrochlore 357, 358
Pyrophyllite 354-356
- Radium 382
Rare earth and thorium minerals 326-328
- Rhodium 307-311
Ruthenium 307-311
Rutile 369-373
- Salt 329-336
Scheelite 375-378
Selenium 337, 338
Shale oil 242
Silicon carbide 2
Sillimanite 339, 340
Silver 341-346
Sodium carbonate (natural) 402
Sodium sulphate (natural) 403
Solvent naphtha 84-87
Spiegeleisen 156-159, 165-175, 204-208
Spodumene 190, 191
Stahleisen 157
Steatite 354-356
Steel 160-176
Strontianite 347
Strontium minerals 347
Sulphur 348-353
Superphosphates 294-297, 299-306
Sylvinit 312-316
- Talc 354-356
Tantalite 357-359
Tantalum and niobium minerals 357-359
Tar 84-99
Tellurium 403
Thorite 326-328
Tin 360-368
Titanium compounds 370-374
Titanium minerals 369-374
Toluene, toluol 84-87
Torbanite 246
Tremolite 33
Tripoli 1-10
Tungsten 375-380
- Uranium minerals 381, 382
Uranothorianite 326, 327, 381, 382
- Vanadium 383, 384
Vermiculite 385
- Whetstones 1-10
White spirit 247-288
Witherite 42-47
Wolfram 375-380
Wollastonite 403
Wonderstone 354
- Xylol 84-87
- Zinc 386-399
Zinc compounds 390-399
Zircon, zirconium 400, 401

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