

E. J. ...

COLONIAL GEOLOGICAL SURVEYS
MINERAL RESOURCES DIVISION

STATISTICAL SUMMARY
OF THE
MINERAL INDUSTRY

PRODUCTION, EXPORTS AND IMPORTS

1946-1952



LONDON: HER MAJESTY'S STATIONERY OFFICE

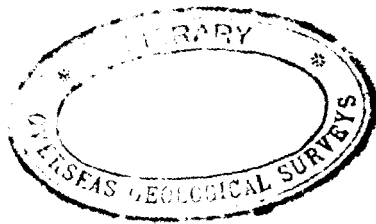
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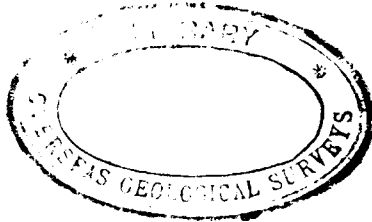
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MINERAL RESOURCES DIVISION

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MINERAL INDUSTRY

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This publication continues under a slightly different title the well-known series of Statistical Summaries formerly published for the Imperial Institute under the title of "The Mineral Industry of the British Empire and Foreign Countries." It is now prepared by the Statistical Section of the Mineral Resources Division of Colonial Geological Surveys which was transferred from the Imperial Institute to the Colonial Office in April, 1949.

The format and arrangement of contents of the Summary have not been altered, and, as in the case of the previous post-war issues, the statistics cover a seven-year period.

All communications should be addressed to :—

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London, S.W.7.

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EXPLANATORY NOTES

(1) Although the statistics in this volume attempt to cover the world, it has not been possible to give complete information for some countries, especially those of eastern Europe, but in order that world totals may be arrived at, estimates for such countries have been included wherever possible.

(2) Both British and Foreign Countries are arranged alphabetically according to continents in the following order:—Europe, Africa, North and Central America, South America, Asia, Australasia.

(3) In the sections on copper, lead and zinc, tables are given showing production of both ore and metal. The ore tables give the estimated metal content of ore produced. In some cases this figure has been obtained by the use of an average assay value, in others it represents the amount of metal actually recoverable. The ore is not necessarily smelted in the country of origin. It follows, therefore, that in the metal table, the metal production for a particular country may be derived from both domestic and imported ores. Secondary metal is excluded as far as possible, but where important is shown as a footnote to the producing country.

(4) Except where otherwise stated the trade figures are intended to represent imports retained, *i.e.*, total imports less re-exports, and exports of domestic produce. In some cases, however, a certain amount of "nationalised" goods is included with domestic exports, namely goods originally imported, but which, if dutiable, have been charged with duty and subsequently re-exported. Where re-exports are not available, an indication to this effect is made by a footnote "total imports." Goods imported for "improvement" and re-exports after "improvement" are also generally included.

(5) Figures of imports and exports for certain countries are not shown. This does not necessarily mean that there is no trade in the commodity but that the item is not recorded separately in the trade returns of the country concerned. In some cases figures have been arrived at by other means, as indicated by footnotes.

(6) Fuel for bunkering, which constitutes an important part of the trade of some countries, *e.g.*, Aden, has been shown separately although in most countries where there is bunker trade the coal or oil is not produced locally. In these cases the figures given in the import tables are total imports less re-exports (not including fuel shipped in bunkers). Footnotes indicate that these imports include fuel intended for bunkering purposes and that the amount of foreign fuel shipped for this purpose can be obtained from the export tables. Thus, in order to ascertain the amount of imports retained the quantity of fuel of foreign origin exported for bunkering should be deducted from the figures shown in the import tables.

(7) Trade statistics for Malaya relate to the Colony of Singapore and the Federation of Malaya. Trade between the two countries is not included. Production statistics relate to the Federation of Malaya.

(8) Production statistics for Swaziland and Bechuanaland are recorded separately but the foreign trade is dealt with for Customs purposes as part of the Union of South Africa.

(9) Trade statistics for India and Pakistan relate to sea and air-borne trade only unless otherwise stated.

(10) The Irish Republic is no longer included under British Countries, but for convenience is put separately between British and Foreign Countries.

(11) German statistics from 1949 onwards relate to the Federal Republic unless otherwise stated.

(12) The factors used for converting volumes of liquids into long tons are approximate only. They are shown as footnotes to the tables relating to Coal by-products and Petroleum and Allied Products.

(13) The units of quantity adopted are the cwt. of 112 lb. (avdp.); ton of 2,240 lb. (avdp.); imperial gallon and metric carat. For precious metals the troy ounce of 480 grains is used. The symbol "—" means Nil or less than half the unit shown.

ABRASIVES*

PRODUCTION OF NATURAL ABRASIVES

(Long tons)

Producing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Kenya—							
Corundum	—	—	—	—	2	—	—
Nyasaland—							
Corundum	379	—	—	88	184	106	46
Southern Rhodesia—							
Corundum	12	—	112	—	—	—	—
South West Africa—							
Corundum	—	—	—	—	10	—	—
Union of South Africa—							
Corundum	1,828	2,278	2,497	2,425	3,151	4,491	3,731
Canada—							
Corundum (shipments)	662	—	—	—	—	—	—
Grindstones	263	299	196	174	89	54	11
Garnet	2	1	2	—	—	—	—
India—							
Corundum	95	179	280	194	299	548	637
Garnet sand	—	8	—	10	(a)	(a)	(a)
Malaya—							
Corundum	—	—	—	—	—	25	—
Australia—							
Corundum	—	—	—	—	—	—	54
New Zealand—							
Pumice	3,409	3,389	6,863	13,124	9,716	8,774	9,612
FOREIGN COUNTRIES							
Belgium—							
Grindstones	142	41	(a)	32	36	63	66
France—							
Pumice	6,889	11,220	16,800	14,800	17,300	(a)	(a)
Tripoli	(a)	(a)	226	86	(a)	(a)	(a)
Millstones	7,510	17,400	16,730	12,530	3,196	} 4,212	(a)
Sharpening stones	1,673	690	344	50	394		
Greece—							
Emery	6,000	9,094	9,025	9,783	5,000	6,500	6,000
Pumice	2,500	1,737	7,000 cu. m.	12,000 cu. m.	19,500 cu. m.	20,000 cu. m.	12,437 cu. m.
Italy—							
Pumice	7,382	28,820	31,003	75,663	101,961	(a)	(a)
Millstones	197	295	344	295	—	(a)	(a)
Sharpening stones	541	1,413	1,912	1,845	1,412	(a)	(a)
Whetstones	1,108	959	305	228	335	(a)	(a)
Norway (exports)—							
Millstones, grindstones, etc.	983	1,460	2,416	2,371	(a)	(a)	(a)
Portugal—							
Tripoli	596	1,576	3,506	1,216	1,224	1,034	1,011
Spain—							
Pumice	(a)	(a)	209	968	415	1,097	(a)
Tripoli	14,065	9,482	6,671	7,161	3,854	10,262	8,456
Garnet	229	142	188	177	133	125	(a)
Sweden—							
Grindstones and whet- stones	2,714	1,099	1,512	964	517	(a)	(a)
Egypt—							
Pumice	1,220	2,490	787	443	354	(a)	394
Garnet	11	—	143	85	159	1	18

* See also Aluminium, Diamonds and Diatomaceous earth.

(a) Information not available.

PRODUCTION OF NATURAL ABRASIVES (Cont.)

Producing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
French Equatorial Africa—							
Corundum	45	2	—	—	—	—	—
Madagascar—							
Corundum	21	1	4	7	—	—	—
Garnet	(a)	89	131	411	510	727	465
Mozambique—							
Corundum	—	—	6	—	16	—	(a)
United States (sales)—							
Emery	5,525	5,177	4,826	4,383	5,312	10,387	9,243
Garnet	6,913	7,788	7,178	5,873	8,307	12,545	10,170
Pumice	285,610	395,136	542,630	639,948	642,282	669,591	670,000
Tripoli	25,853	30,873	23,969	22,790	39,036	33,461	31,660
Grindstones	10,362	9,482	7,072	3,991	3,960	4,954	3,660
Pulpstones	64	68	29	25	29	20	10
Turkey—							
Emery	8,318	11,903	7,737	8,771	1,399	7,247	8,110

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

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

	1946	1947	1948	1949	1950	1951	1952
Silicon carbide ..	44,601	46,164	47,229	41,427	39,965	62,752	52,926
Fused alumina ..	106,449	130,744	129,320	101,071	113,324	174,441	135,791

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

	1946	1947	1948	1949	1950	1951	1952
Silicon carbide ..	57,008	56,897	56,279	60,303	58,039	89,730	81,724
Aluminium oxide ..	117,932	142,877	138,368	112,327	125,314	193,151	161,049
Metallic abrasives ..	99,564	137,671	131,445	93,552	128,869	147,445	143,000

(U.S. plants only).

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

(a) Information not available.

EXPORTS OF ABRASIVES*
(Domestic Produce)
(Long tons)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Abrasives, natural ..	251	484	1,716	1,923	1,923	2,674	1,836
do. artificial ..	69	256	1,091	1,702	1,232	1,184	713
Grinding wheels of—							
Artificial corundum, etc.	606	557	742	970	944	1,515	1,442
Carborundum ..	571	536	693	1,375	2,034	2,208	1,372
Emery ..	101	457	275	341	279	415	265
Other hard abrasives ..	832	1,203	717	901	1,051	1,618	901
Grindstones ..	2,848	} (b) 3,401	(b) 4,001	(b) 3,000	(b) 2,196	(b) 2,049	(b) 2,198
Whetstones ..	674						
Other manufactured abrasives—							
Natural ..	2,870	} 2,770	742	411	667	1,136	714
Artificial ..	1,032						
Nyasaland—							
Corundum ..	412	17	—	79	184	99	46
Union of South Africa—							
Corundum ..	1,737	2,212	3,006	1,918	2,917	4,649	3,583
Canada—							
Natural abrasives, including diatomaceous earth	5	54	15	7	6	19	17
Artificial abrasives ..	155,719	175,715	178,780	140,997	167,006	241,259	189,171
Artificial abrasive wheels, etc. ..	(£20,210)	(£73,753)	(£42,076)	(£25,599)	(£20,850)	(£20,770)	(£5,898)
Grindstones ..	(£8,303)	(£6,175)	(£5,365)	(£5,649)	(£18,095)	(£24,450)	(£7,342)
Cyprus—							
Pumice ..	—	—	4	(a)	(a)	(a)	(a)
India—							
Garnet sand ..	(a)	4	(a)	(a)	(a)	(a)	(a)
Palestine—							
Millstones ..	(£4,568)	(a)	(a)	(a)	(a)	(a)	(a)
New Zealand—							
Pumice ..	2,545	2,410	1,735	1,419	1,329	1,238	791
FOREIGN COUNTRIES							
Austria—							
Emery and other natural abrasives ..	} (a)	—	105	460	1,012	} 691	470
Artificial abrasives ..								} (a)	20	—	28	} 826	1,580
Grindstones, natural ..	(a)	(a)	(a)	359	389	391	447
do. artificial ..	(a)	(a)	(a)	568	413	427	185
Millstones ..	(a)	73	362	568	413	427	185
Belgium-Luxemburg E.U.—							
Corundum ..	(a)	(a)	40	2	3	11	22
Millstones and grindstones, natural and artificial ..	(a)	(a)	485	478	396	567	362
Other abrasives ..	(a)	(a)	138	175	124	155	3
Bulgaria—							
Millstones, grindstones, etc. ..	29	(a)	(a)	(a)	(a)	(a)	(a)

* See also Aluminium, Diamonds and Diatomaceous earth.

(a) Information not available.

(b) Including all abrasive shapes cut from natural rock.

EXPORTS OF ABRASIVES (Cont.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Czechoslovakia—							
Emery and pumice ..	1	2	(c) 1	(a)	(a)	(a)	(a)
Carborundum	2	1	(c) 528	(a)	(a)	(a)	(a)
Grindstones, etc., natural	15	12	(c) 13	(a)	(a)	(a)	(a)
do. carborundum ..	227	890	(c) 531	(a)	(a)	(a)	(a)
do. emery, etc. ..	22	28	(c) 660	(a)	(a)	(a)	(a)
Millstones	1	48	(c) 10	(a)	(a)	(a)	(a)
Other abrasives	—	1	(c) —	(a)	(a)	(a)	(a)
Denmark—							
Emery	5	2	9	17	16	20	31
Millstones and grindstones, natural ..	3	10	72	34	239	534	362
do. artificial ..	142	315	212	166	14	80	54
Finland—							
Grindstones, etc. ..	113	242	433	629	316	352	(a)
France—							
Corundum and emery ..	37	228	146	222	254	271	249
Pumice	162	352	388	56	640	272	163
Tripoli	52	17	(a)	(a)	(a)	(a)	(a)
Millstones and grindstones	1,656	2,239	2,207	1,274	697	3,423	1,910
Whetstones	108	164	976	1,753	1,562	105	80
Artificial abrasives ..	4,348	1,737	(b) 98	(b) 26	(b) 47	(b) 33	(b) 115
Germany (Federal)—							
Emery	(a)	(a)	12	42	205	(d) 170	5,159
Carborundum, etc. ..			3	1,692	3,871	(d) 4,744	
Other abrasives			1,400	1,065	3,873	(d) 4,422	
Millstones, grindstones, etc.			447	1,162	1,464	4,801		2,799
Greece—							
Emery	4,084	3,353	5,274	5,016	8,021	9,917	7,711
Pumice	—	2	1,980	3,881	22,474	9,999	9,660
Italy—							
Pumice	(a)	17,868	16,328	20,880	26,781	24,465	21,937
Emery and corundum ..	(a)	5	7	106	8	7	5
Tripoli	(a)	(a)	(a)	(a)	40	87	51
Artificial abrasives ..	(a)	5	113	597	100	292	268
Netherlands—							
Emery	1,096	1,710	1,795	1,876	2,961	3,030	2,044
Norway—							
Emery, etc.	12	2	5	94	195	95	86
Millstones, grindstones, etc.	983	1,460	2,416	2,371	(a)	(a)	(a)
Whetstones	37	28	7	9	21	20	56
Other artificial abrasives	154	163	224	289	301	225	224
Sweden—							
Emery	—	2	—	1	15	4	9
Other natural abrasives ..	7	3	15	5	39	5	42
Carborundum, etc. ..	158	393	67	124	343	440	291
Millstones, grindstones, etc.	1,009	1,304	1,174	549	639	840	704
Switzerland—							
Carborundum, emery, etc., crude	—	35	52	28	52	24	17
do. do. ground ..	768	1,244	1,956	1,912	1,541	2,176	1,652
Grindstones	16	34	179	12	4	4	1
Millstones	2	7	—	25	4	16	—

(a) Information not available.

(b) Carborundum only.

(c) January to October only.

(d) January to September only.

EXPORTS OF ABRASIVES (Cont.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Madagascar—							
Corundum	10	12	11	—	—	—	—
Garnet	40	40	125	443	559	667	380
Mozambique—							
Corundum	55	—	—	—	—	32	(a)
Costa Rica—							
Millstones	75	40	105	(a)	(a)	(a)	(a)
Mexico—							
Pumice	18	13	11	128	3	—	4
Emery, etc.	3	—	—	—	—	—	—
Millstones, whetstones, etc.	8	3	1	—	5	—	—
United States—							
Corundum	—	—	—	164	183	177	140
Emery powder	236	244	124	515	508	686	682
Wheels of emery and corundum	193	201	57	—	—	—	—
Grindstones	2,739	2,050	1,289	628	459	600	353
Whetstones etc.	—	—	—	40	72	133	83
Other natural abrasives..	23,608	31,245	26,901	34,154	36,466	42,019	32,117
Aluminium oxide, fused				17,822	14,250	15,185	8,915
Silicon carbide				5,638	4,815	6,593	6,856
Unfused alumina				93	113	79	79
Other crude artificial abrasives				733	43	101	31
Artificial abrasive wheels	4,152	4,550	3,017	2,375	1,709	2,776	2,017
Artificial hones, whet- stones, etc.	806	749	435	839	902	1,303	974
Turkey—							
Emery and carborundum	10,179	11,218	9,575	8,445	8,205	10,717	6,139

(a) Information not available.

IMPORTS OF ABRASIVES *

(Less Re-exports)

(Long tons)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Emery	5,364	6,781	6,348	5,453	6,227	6,926	4,163
Garnet concentrates—							
Unground	550	559	511	525	674	1,051	677
Ground	—	113	230	197	465	252	261
Other natural abrasives	2,296	2,262	2,679	5,449	6,439	6,707	5,755
Aluminium oxide ..	11,616	18,794	18,050	20,418	23,077	30,226	25,055
Carborundum, unground	302	400	174	142	98	10,753	11,491
do. ground ..	6,400	9,191	5,441	9,112	9,524		
Grinding wheels of—							
Artificial corundum,							
etc.	2	27	54	24	14	43	782
Carborundum ..	1	—	12	16			
Emery	1	—	—	—			
Other hard abrasives	5	48	112	55			
Grindstones and whet-							
stones	6	5	7	5	13	9	6
Other manufactured							
abrasives—							
Natural	1,738	6,859	6,286	3,028	1,625	1,165	439
Artificial	3,110						
Anglo-Egyptian Sudan—							
Grindstones	24	18	38	68	22	22	(a)
Kenya and Uganda—							
Grindstones, etc. ..	14	—	28	33	30	28	35
Mauritius—							
Grindstones, etc. ..	(a)	(£1,123)	(a)	(£1,537)	(£1,115)	14	43
Tanganyika—							
Grindstones, wheels, etc.	6	9	13	20	14	13	16
Union of South Africa—							
Emery	39	35	36	20	20	20	(a)
Pumice	98	68	54	94	103	70	(a)
Other abrasives (£S.A.)	(£10,038)	(£19,642)	(£21,049)	(£15,928)	(£26,715)	(£122,594)	(a)
Abrasive wheels and discs							
(£ S.A.)	(£76,837)	(£138,867)	(£125,635)	(£147,742)	(£221,133)	(£169,386)	(a)
Grindstones, millstones,							
etc. (£ S.A.)	(£9,512)	(£8,079)	(£4,989)	(£2,385)	(£2,719)	(d) (£282)	(a)
Canada (c)—							
Pumice, etc.	(£16,888)	(£15,400)	(£26,969)	(£28,185)	(£42,067)	(£43,714)	(£40,428)
Emery, ground	(£26,894)	(£30,685)	(£35,367)	(£30,940)	(£35,161)	(£54,276)	(£48,874)
Artificial abrasives, ground	(£373,150)	(£396,638)	(£367,103)	(£396,744)	(£623,363)	(£686,134)	(£549,546)
Buhrstones	(£26)	(£400)	(£86)	(£460)	(£477)	(£424)	(£538)
Emery and artificial abra-							
sives manufactures ..	(£23,583)	(£23,438)	(£25,148)	(£29,144)	(£37,833)	(£52,812)	(£62,959)
Grindstones and wheels	(£128,480)	(£161,339)	(£177,795)	(£213,555)	(£357,063)	(£554,959)	(£596,337)
Newfoundland (b)—							
Grindstones	(£16,992)	(£12,514)	(£3,393)	(b)	(b)	(b)	(b)
Whetstones, etc. ..	(£1,165)	(£934)	(£344)	(b)	(b)	(b)	(b)
British West Indies—							
Jamaica—							
Natural abrasives ..	(a)	(£33)	(£10)	(£194)	(£345)	(£131)	(a)
Grindstones	(£445)	(£1,145)	(£1,129)	(£1,081)	(£850)	(£941)	(a)

* See also Aluminium, Diamonds and Diatomaceous earth.

(a) Information not available.

(b) Years ended March 31 of the year following that stated. Included with Canada from April 1, 1949.

(c) Including Newfoundland from April 1, 1949.

(d) Excess of re-exports.

IMPORTS OF ABRASIVES (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES (Cont.)							
British West Indies (Cont.)							
Trinidad and Tobago—							
Grindstones and wheels	(c) 207	13	395	16	22	25	15
Ceylon—							
Grindstones	(£1,675)	(£1,328)	(£1,785)	(£1,814)	(£7,896)	(£6,774)	(£8,020)
Cyprus—							
Grindstones and millstones	(£9,236)	(£4,342)	(£4,208)	(£3,809)	(£3,041)	(£2,176)	(£1,122)
Palestine—							
Millstones	(£7,353)	(a)	(a)	(a)	(a)	(a)	(a)
Australia (d)—							
Emery, etc.	} 256	372	379	349	627	{ (e) 455	(e) 409
Corundum							
Pumice (£ Aust.) ..	(£12,615)	(£13,368)	(£8,561)	(£12,946)	(£8,129)	(e) (£18,026)	(e) (£11,149)
Grindstones, etc. ..	37	56	90	86	91	122	167
Artificial abrasives ..	703	2,030	1,499	1,459	(e) 1,141	(e) 2,500	(e) 1,430
New Zealand—							
Pumice	—	2	1	1	8	—	—
Grindstones, etc. (£N.Z.)	(£20,914)	(£26,423)	(a)	(£14,740)	(£15,746)	(£21,555)	(£19,703)
Irish Republic—							
Grindstones, oilstones, etc.	144	157	140	(a)	(a)	(a)	127
FOREIGN COUNTRIES							
Austria—							
Emery and other natural abrasives	} (a)	} 434	627	1,121	1,269	} 786	48
Artificial abrasives ..							
Pumice, etc.							
Grindstones, natural ..							
do. artificial							
Millstones	15	53	165	202	764	204	
	240	292	116	170	169	184	
	101	430	262	129	137	67	
	41	58	53	91	125	78	
Belgium-Luxemburg E.U.—							
Corundum, artificial ..	(a)	(a)	371	746	861	1,129	921
Millstones and grindstones, natural and artificial	(a)	(a)	1,731	1,146	1,080	1,464	1,207
Silicon carbide	(a)	(a)	646	1,040	617	1,150	1,399
Other abrasives	(a)	(a)	1,378	1,477	4,460	7,892	5,775
Bulgaria—							
Emery, etc.	2	(a)	(a)	(a)	(a)	(a)	(a)
Czechoslovakia—							
Emery	10	—	(b) 10	(a)	(a)	(a)	(a)
Pumice	—	20	(b) —	(a)	(a)	(a)	(a)
Carborundum	335	1,162	(b) 142	(a)	(a)	(a)	(a)
Grindstones, etc., natural ..	25	202	(b) 296	(a)	(a)	(a)	(a)
do. carborundum	—	1	(b) 22	(a)	(a)	(a)	(a)
do. emery, etc.	1	24	(b) 55	(a)	(a)	(a)	(a)
Millstones	85	140	(b) 163	(a)	(a)	(a)	(a)
Other abrasives	1	2	(b) 2	(a)	(a)	(a)	(a)
Denmark—							
Emery, etc.	332	379	419	322	448	610	527
Pumice	258	339	358	667	242	581	713
Carborundum	212	162	238	301	227	310	202
Millstones and grindstones, natural ..	654	141	191	240	415	315	} 563
do. artificial	440	433	361	344	330	543	

(a) Information not available.
(c) Excess of re-exports.
(e) Calendar year.

(b) January to October only.
(d) Years ended June 30 of that stated.

IMPORTS OF ABRASIVES (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952	
FOREIGN COUNTRIES (Cont.)								
Finland (total imports)—								
Emery, pumice, etc. . .	347	579	482	446	635	706	(a)	
Carborundum, etc. . .	60	139	92	100	78	154	(a)	
Millstones, etc. . .	1	1	13	—	15	20	(a)	
Whetstones, grindstones, etc. . .	634	1,015	2,075	1,787	1,050	1,676	(a)	
France—								
Corundum and emery . .	2,072	3,232	2,761	854	1,953	2,748	1,732	
Pumice	2,046	4,978	2,322	1,414	5,928	8,720	13,398	
Tripoli	(a)	550	(a)	(a)	(a)	(a)	(a)	
Millstones and grindstones	75	358	184	176	151	846	547	
Whetstones	38	104	305	329	556	172	81	
Carborundum	1,817	2,185	946	2,105	2,016	3,012	2,233	
Other artificial abrasives	1,502	2,233	(a)	(a)	(a)	(a)	(a)	
Germany (Federal)—								
Emery	}	(a)	80	722	2,025	}	8,083	5,932
Pumice, etc.			(a)	4,256	6,740			
Carborundum, etc.			196	590	686			
Other abrasives			—	125	80			
Millstones, grindstones, etc.			131	234	62			
Iceland—								
Millstones, etc.	16	(a)	(a)	18	19	38	(a)	
Italy—								
Emery and corundum . .	(a)	298	1,012	1,110	1,740	910	1,117	
Carborundum	(a)	(a)	(a)	(a)	(b) 324	1,194	1,057	
Artificial abrasives . .	(a)	891	1,474	2,042	(c) 1,257	(a)	(a)	
Netherlands—								
Emery	2,273	2,602	3,686	1,821	4,261	4,141	2,886	
Other natural abrasives . .	(a)	(a)	614	989	888	998	580	
Millstones and grindstones								
Natural	—	—	602	328	337	432	226	
Artificial	—	—	724	769	767	1,091	825	
Other artificial abrasives	—	—	251	436	589	(a)	708	
Norway—								
Emery, etc.	399	385	599	782	662	876	410	
Millstones, grindstones, etc.	912	1,685	1,254	754	(a)	(a)	(a)	
Whetstones	19	10	15	—	12	(a)	(a)	
Other artificial abrasives	35	22	38	45	58	(a)	(a)	
Portugal—								
Emery, etc.	177	347	168	223	221	339	405	
Pumice	46	—	10	40	43	5	199	
Millstones	114	186	182	89	136	228	198	
Spain—								
Emery powder	72	53	31	161	186	15	(a)	
Carborundum	49	123	66	96	135	109	(a)	
Sweden—								
Emery	769	403	713	520	730	947	419	
Pumice	651	97	209	532	178	208	117	
Other natural abrasives . .	2,433	2,556	2,862	2,426	2,556	3,590	2,293	
Carborundum, etc.	713	1,081	1,165	1,565	1,784	1,728	1,485	
Grindstones, etc.	1,138	1,385	1,329	1,065	1,482	2,022	1,879	
Millstones	619	904	1,267	923	782	1,399	858	
Switzerland—								
Emery, crude	989	904	755	690	458	816	649	
Carborundum, emery, etc., ground	782	1,201	1,478	777	915	1,339	1,155	
Millstones	10	31	47	70	54	47	73	
Grindstones	432	593	450	326	248	285	198	
Whetstones	1	36	25	25	16	22	15	

(a) Information not available.

(b) July to December only.

(c) January to June only.

IMPORTS OF ABRASIVES (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Yugoslavia—							
Corundum, etc.	(a)	(a)	(a)	(a)	668	314	567
Grindstones, artificial . .	(a)	(a)	(a)	(a)	291	163	165
Algeria—							
Emery, corundum, etc. . .	5	50	132	9	70	93	16
Pumice	157	189	138	210	454	68	331
Millstones and grindstones	363	386	424	469	378	387	326
Egypt—							
Emery, pumice, etc. . .	(b) 844	(b) 266	(b) 1,978	(b) 5,746	5,912	1,631	1,980
Millstones	—	(b) 67	(b) 104	(b) 64	1	71	83
Grindstones	135	(b) 150	(b) 235	(b) 174	196	207	149
Wetstones	6	(b) 13	(b) 44	(b) 11	12	14	10
Madagascar—							
Millstones, grindstones, and wetstones	7	11	27	(a)	(a)	(a)	(a)
Morocco (French)—							
Millstones and grindstones	284	139	76	108	59	(a)	104
Tunis—							
Emery and pumice	169	55	49	(a)	(a)	(a)	(a)
Millstones and grind- stones	19	13	50	(a)	(a)	(a)	(a)
Cuba (total imports)—							
Grindstones	(a)	(a)	615	326	413	1,214	(a)
Mexico—							
Emery and carborundum	1,038	1,041	1,418	1,328	1,324	1,252	1,322
Pumice	6	5	47	3	8	8	3
Millstones and grind- stones	337	304	197	228	313	435	358
United States—							
Corundum, crude	3,756	2,144	3,225	1,797	3,163	4,369	4,081
Emery, crude	2,287	2,772	984	1,350	1,541	2,509	(a)
Corundum and emery, ground	52	51	56	2	9	9	11
Pumice, crude	4,916	6,973	7,567	7,896	17,203	14,064	19,630
do. manufactured	878	710	696	675	877	670	427
Tripoli, etc.	83	74	(a)	(a)	(a)	10	1,461
Grindstones	207	224	274	128	265	190	174
Buhstones, hones, etc. . .	24	42	39	23	20	26	21
Crude artificial abrasives	138,578	150,817	155,930	115,604	141,204	208,406	164,960
Argentina—							
Emery	1,805	689	344	62	231	(a)	(a)
Pumice	8	(a)	(a)	(a)	(a)	(a)	(a)
Grindstones	239	(a)	(a)	(a)	(a)	(a)	(a)
Oil stones	16	(a)	(a)	(a)	(a)	(a)	(a)
Brazil—							
Millstones, grindstones, etc.	721	708	299	480	(a)	1,451	961
Other abrasives	395	297	157	166	(a)	706	232
Chile—							
Emery	25	}	(a)	(a)	(a)	(a)	(a)
Pumice	—						
Tripoli	29						
Other abrasives	56						
Colombia—							
Emery and pumice	82	(a)	(a)	66	51	(a)	(a)
Millstones and grind- stones	20	(a)	(a)	(a)	(a)	(a)	(a)
Peru—							
Emery and pumice	34	(a)	9	21	10	35	27
Millstones, grindstones etc.	52	(a)	37	91	66	91	81
Venezuela—							
Emery and pumice	23	32	35	145	(a)	(a)	(a)

(a) Information not available.

(b) Total imports.

IMPORTS OF ABRASIVES (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Iraq—							
Grindstones, whetstones, etc.	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Syria and Lebanon—							
Emery	101	(a)	(a)	(a)	(a)	(a)	(a)
Millstones and grind- stones	186	(a)	(a)	(a)	(a)	(a)	(a)
Turkey—							
Emery and carborundum, crude	9	9	9	9	14	—	—
Millstones and grind- stones	170	214	483	345	344	1,025	710
Whetstones, etc.	—	19	6	4	12	42	4
Grinding powder	45	33	45	68	72	17	1

(a) Information not available.

ALUMINIUM
(Including Bauxite and Cryolite)

PRODUCTION OF BAUXITE

(Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Gold Coast (b)	114,246	95,898	130,953	145,013	114,948	129,328	74,368
Jamaica	—	—	—	—	—	—	410,720
British Guiana (c) ..	1,115,966	1,358,929	1,944,966	1,796,409	1,642,036	2,087,079	2,387,938
India	16,405	18,537	20,663	42,541	64,399	67,047	63,505
Malaya	—	—	—	—	—	—	21,796
Australia	3,729	4,878	5,645	5,292	3,467	5,084	7,235
TOTAL	1,244,000	1,472,000	2,102,000	1,989,000	1,825,000	2,288,500	2,965,560
FOREIGN COUNTRIES							
Austria	—	—	5,240	6,452	2,960	8,877	14,940
France	442,027	669,381	790,844	(g) 772,918	(g) 795,083	1,105,719	1,097,270
Germany (Federal) ..	(a)	(a)	(a)	2,400	4,100	(a)	(a)
Greece	1,294	22,066	43,539	44,813	76,225	161,072	280,413
Hungary	99,169	279,100	(e) 340,000	(e) 340,000	(d) 350,000	(d) 400,000	(d) 600,000
Italy	64,413	165,070	150,728	103,196	151,010	171,522	277,013
Spain	4,820	5,370	6,698	11,773	11,994	10,414	5,858
U.S.S.R. (estimated) (g) ..	450,000	500,000	600,000	600,000	700,000	800,000	900,000
Yugoslavia	54,300	86,200	134,321	340,489	197,719	446,197	568,080
French West Africa ..	—	—	—	10,200	13,660	—	108,017
Mozambique	1,596	2,913	1,340	2,247	4,268	4,187	(a)
United States (f)	1,104,054	1,202,055	1,457,148	1,148,792	1,334,527	1,848,676	1,667,047
Brazil	4,388	6,629	13,822	15,957	18,277	18,731	(a)
Dutch Guiana	1,004,080	1,711,670	2,165,481	2,095,205	2,013,058	2,657,347	3,107,876
Indonesia	100,000	24,171	430,907	667,428	522,754	632,172	338,325
TOTAL (d)	3,400,000	4,700,000	6,140,000	6,160,000	6,200,000	8,270,000	8,990,000
WORLD'S TOTAL (d)	4,650,000	6,170,000	8,240,000	8,150,000	8,000,000	10,560,000	11,960,000

(a) Information not available.

(b) Exports.

(c) The shipments from mines of dried and calcined ore were as follows (long tons) :—

	1946	1947	1948	1949	1950	1951	1952
Metallurgical ..	1,047,220	1,210,016	1,764,387	1,598,350	1,432,369	1,829,828	2,102,109
Chemical ..	37,597	24,572	31,754	38,906	68,385	71,151	30,843
Refractory ..	2,635	2,793	—	17,748	17,362	31,068	49,312
Abrasive ..	33,893	51,632	69,152	101,189	64,513	70,687	103,681

Exports of calcined ore are shown on page 13.

(d) Estimated.

(e) U.S. Bureau of Mines estimate.

(f) Dried bauxite equivalent.

(g) Revised.

PRODUCTION (EXPORTS) OF CRYOLITE IN GREENLAND

Year	Long tons
1946	30,660
1947	39,910
1948	26,062
1949	44,623
1950	44,046
1951	65,196
1952	72,995

PRODUCTION OF ALUMINIUM
(Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom (b) ..	31,500	28,940	30,028	30,345	29,468	27,725	28,006
Canada	172,679	267,019	327,749	329,880	354,359	399,192	442,878
India	3,244	3,223	3,368	3,492	3,596	3,848	3,566
TOTAL	207,400	299,182	361,145	363,717	385,525	430,765	474,450
FOREIGN COUNTRIES							
Austria	1,016	4,476	12,814	14,563	17,706	25,965	36,128
France	47,195	52,557	62,695	53,091	59,761	89,665	104,452
Germany (c)	—	—	7,421	28,593	27,398	72,963	98,876
Hungary (d)	1,939	5,121	9,300	14,000	(a)	(f) 30,000	(a)
Italy	10,461	24,668	32,560	25,242	36,485	48,964	51,903
Norway	16,428	21,382	30,551	35,113	46,313	51,283	52,014
Spain	991	984	515	1,193	2,132	4,092	4,051
Sweden	3,510	2,846	3,227	3,867	3,974	6,608	8,261
Switzerland	13,000	18,167	18,660	20,668	18,900	26,600	29,000
U.S.S.R. (f)	80,000	120,000	140,000	160,000	190,000	210,000	295,000
Yugoslavia	558	1,243	1,854	2,454	1,901	2,783	2,523
United States (e)	365,741	510,491	556,657	538,805	641,627	747,215	836,902
Formosa	—	15	2,469	1,291	1,793	2,557	3,795
Japan	3,142	2,657	6,855	20,883	24,377	36,329	41,986
TOTAL	550,000	770,000	880,000	920,000	1,080,000	1,350,000	1,590,000
WORLD'S TOTAL	760,000	1,070,000	1,240,000	1,284,000	1,466,000	1,781,000	2,065,000

(a) Information not available.

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

1946	.. .. .	74,900	long tons
1947	.. .. .	97,600	" "
1948	.. .. .	80,165	" "
1949	.. .. .	75,228	" "
1950	.. .. .	86,372	" "
1951	.. .. .	87,029	" "
1952	.. .. .	93,248	" "

(c) Bizone only. Federal Republic in 1951. In addition secondary metal was recovered as follows :—

1946	.. .. .	17,500	long tons
1947	.. .. .	18,531	" "
1948	.. .. .	34,318	" "
1949	.. .. .	35,656	" "
1950	.. .. .	47,855	" "
1951	.. .. .	45,460	" "
1952	.. .. .	41,502	" "

(d) U.S. Bureau of Mines except 1951 estimate for Hungary.

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

1946	.. .. .	248,279	long tons
1947	.. .. .	307,890	" "
1948	.. .. .	256,051	" "
1949	.. .. .	161,395	" "
1950	.. .. .	217,559	" "
1951	.. .. .	261,257	" "
1952	.. .. .	262,802	" "

(f) Estimated.

EXPORTS OF ALUMINIUM, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Alumina	8,926	6,473	3,841	4,087	13,479	17,924	4,787
Ingots, etc., including alloyed.. .. .	5,231	6,016	6,543	5,689	5,429	2,053	1,757
Bars, sheets, tubes and wire	17,465	22,242	47,067	31,817	22,170	16,807	12,705
do. alloyed.. .. .							
Foil and alloyed.. .. .	1,787	2,311	3,046	2,941	3,605	3,848	2,992
Scrap, including alloyed	8,286	507	10	—	342	—	3
Aluminium sulphates ..	34,298	29,648	38,695	37,568	38,350	33,025	31,921
Gold Coast—							
Bauxite	114,246	95,898	130,953	145,013	114,948	129,328	74,368
Southern Rhodesia—							
Ingots, blocks and rods..	67	52	9	45	49	25	23
Union of South Africa—							
Aluminium sulphates ..	509	1,044	705	574	628	(a)	(a)
Canada—							
Blocks, bars, and ingots..	167,264	190,818	292,060	265,095	299,755	316,441	368,383
Sheets, rods, etc. .. .	2,186	3,481	5,507	9,443	10,219	13,218	21,087
Scrap	5,766	9,644	20,393	3,914	4,146	3,528	3,119
Wire	(£287,598)	(£627,773)	(£1,370,092)	(a)	(a)	(a)	(a)
Foil	(a)	(a)	(a)	795	636	1,440	1,126
Jamaica—							
Bauxite	—	—	—	2	—	—	239,978
Alumina	—	—	—	—	—	—	225
British Guiana—							
Bauxite dried	1,086,812	1,238,395	1,804,014	1,682,389	1,562,142	1,905,691	2,140,472
do. calcined	33,203	51,972	69,152	75,261	81,275	97,053	145,485
Hong Kong (re-exports)—							
Unwrought	(a)	(a)	(a)	(a)	(a)	(a)	17
Scrap	(a)	(a)	(a)	(a)	(a)	(a)	11
Plates and sheets .. .	(a)	(a)	(a)	(a)	(a)	(a)	4
India—							
Bauxite	1,040	281	448	948	344	808	4,036
Malaya (including re-exports)—							
Bauxite	—	—	—	—	15,891	20,660	26,984
Bars, sheets and strips ..	4	57	253	266	187	413	462
Aluminium sulphates ..	911	1,334	1,706	1,386	2,164	3,137	928
Australia—							
Bauxite	36	151	134	176	102	—	—
Pigs, ingots, etc. .. .	242	157	194	6	—	—	489
Scrap	—	1,536	4,360	3	102	—	31
Aluminium sulphates ..	385	281	134	74	106	53	37
FOREIGN COUNTRIES							
Austria—							
Bauxite	(a)	(a)	(a)	(a)	—	2,963	9,313
Alumina							
Crude, including alloys..							
Scrap							
Sheets, rods, wire, foil, etc.							
Belgium-Luxemburg E.U.—							
Bauxite, etc.	(a)	(a)	—	—	—	—	—
Alumina and hydrates ..	(a)	(a)	4	59	—	—	38
Crude	(a)	(a)	1,900	3,640	3,287	356	762
Scrap	(a)	(a)	666	370	733	166	124
Sheets, wire, etc. .. .	(a)	(a)	630	516	1,475	4,338	3,567
Aluminium sulphates ..	(a)	(a)	6,593	7,473	7,262	25,042	9,587

(a) Information not available.

EXPORTS OF ALUMINIUM, ETC. (Cont.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Czechoslovakia—							
Crude and scrap	—	137	(b) 1,255	(a)	(a)	(a)	(a)
Bars, sheets, rods and wire	6	70	(b) 2	(a)	(a)	(a)	(a)
Denmark—							
Refined cryolite	8,490	12,503	18,639	18,697	23,962	28,063	27,279
Crude	52	71	41	272	235	22	288
Scrap	317	686	309	306	48	10	134
Sheets, wire and foil	3	1	1	37	232	383	339
France—							
Bauxite	47,741	83,109	114,645	187,751	257,726	359,976	333,219
Alumina	30,765	67,267	71,821	56,407	67,320	70,034	63,620
Aluminium hydrates	3,217	6,987	3,271	5,950	5,405	8,336	278
Cryolite	(c) 34	(c) 44	1	10	—	1	20
Ingots	1,719	1,277	1,204	8,693	16,549	8,771	8,959
Scrap	1,927	9	(a)	(a)	(a)	27	11
Sheets, wire, etc.	2,727	3,527	2,396	3,144	3,018	3,650	2,297
Aluminium sulphates	2,727	3,089	4,521	4,754	7,476	11,859	4,044
Germany—							
Bauxite and cryolite	(a)	(a)	3,938	—	1,059	20	49
Alumina			(a)	(a)	(a)	11,586	49,389
Crude and alloys			—	15,743	33,797	6,025	7,251
Scrap			—	2,097	712		
Sheets, wire, castings, etc.			19	554	8,840	10,064	2,652
Foil			58	185	2,024	4,887	4,706
Aluminium sulphates, etc. including refined bauxite			133	4,315	29,335	(d) 16,258	(a)
Greece—							
Bauxite	—	5,905	39,762	39,772	64,117	177,312	296,269
Hungary—							
Bauxite	8,914	52,551	(a)	(a)	(a)	(a)	(a)
Italy—							
Bauxite	492	—	—	—	—	1	1,045
Alumina	5,315	10,637	21,671	13,591	10,999	35,923	24,532
Aluminium hydrates	(a)	125	—	2	35	2	—
Crude, scrap and alloyed	679	1,625	18,810	5,005	3,090	6,959	4,422
Aluminium sulphates	(a)	796	209	583	624	4,585	6,921
Netherlands—							
Crude and alloys	5	126	149	587	169	218	321
Scrap	190	1,093	3,497	1,371	2,836	1,186	2,677
Foil	3	10	23	28	42	21	62
Norway—							
Alumina	37	157	41	354	6	1	32
Crude	9,469	16,337	21,541	21,585	39,714	41,220	34,501
Scrap	746	599	521	292	562	405	426
Bars, sheets, tubes and wire	556	891	1,193	995	1,390	2,213	1,598
Sweden—							
Alumina	(a)	(a)	(a)	893	98	—	8
Crude, sheets and strips	23	27	47	7	852	534	222
Scrap	98	158	84	100	292	230	796
Aluminium sulphates	11,473	8,140	6,915	7,976	11,254	9,037	8,382
Switzerland—							
Alumina	(a)	(a)	265	1,720	311	—	127
Blocks, ingots, etc., and scrap	396	964	10,617	6,360	9,412	2,208	3,365
do. (alloys)	395	155	1,282	1,108	2,436	1,316	1,769
Bars, sheets, tubes and wire	3,038	4,632	3,684	3,053	1,547	4,002	3,114
do. (alloys)	610	1,381	1,094	1,313	1,561	1,859	2,304

(a) Information not available.

(b) January to October only.

(c) Artificial only.

(d) January to September only.

EXPORTS OF ALUMINIUM, ETC. (Cont.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Yugoslavia—							
Bauxite	(a)	(a)	(a)	(a)	150,576	441,421	603,039
Algeria—							
Ingots	—	—	401	337	11	72	26
Scrap	—	—	584	240	249	619	218
French West Africa—							
Bauxite	—	—	—	—	9,965	—	58,186
Mozambique—							
Bauxite	1,032	2,412	748	846	3,705	3,021	(a)
Greenland—							
Cryolite	30,660	39,910	26,062	44,623	44,046	(b) 65,196	(b) 72,995
Haiti—							
Bauxite	300	—	(a)	(a)	(a)	(a)	(a)
United States—							
Bauxite, etc. .. .	97,788	94,369	54,113	34,902	45,209	85,565	41,329
Cryolite, natural..	1,159	836	637	} 323	1,850	1,426	74
do. artificial .. .	414	295	72				
Ingots and alloys ..	988	10,802	1,107	7,159	591	857	1,239
Scrap	572	703	390	354	713	5,607	917
Plates, sheets, bars, etc...	13,917	44,852	62,674	25,682	17,698	9,816	7,006
Foil	1,602	4,339	1,765	1,305	743	142	136
Aluminium sulphates ..	33,890	20,883	12,805	13,131	11,615	17,737	17,628
Brazil—							
Bauxite	1,143	702	11,808	9,891	11,850	8,709	98
Dutch Guiana—							
Bauxite	839,146	1,769,433	2,131,305	2,095,205	2,050,699	2,632,311	3,105,171
China—							
Aluminium sulphates ..	1,544	1,123	605	(a)	(a)	(a)	(a)
Indonesia—							
Bauxite	—	88,166	443,105	670,339	540,853	601,824	216,575
Japan—							
Ingots etc.	} (a)	(a)	(a)	(a)	{ 22,152	6,104	(a)
Scrap							
Aluminium sulphates ..							
					307	20	(a)
					889	1,463	(a)

(a) Information not available.

(b) Imports from Greenland into Denmark and United States.

IMPORTS OF ALUMINIUM, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Bauxite	156,972	163,726	308,328	326,603	198,607	345,447	282,626
Cryolite	1,444	1,587	2,280	2,590	3,403	3,630	3,270
Alumina	101	5	—	—	6	146	4
Ingots, etc.	} 80,646	95,862	139,084	165,397	{ 141,205	175,626	237,131
do. alloyed .. ..								4	1,641	206
Bars, sheets, tubes, etc., including alloyed ..	(b) 611	95	138	30	150	1,513	2,192
Foil and alloyed ..	28	422	222	146	185	921	648
Scrap, including alloyed	23	1,943	3,516	1,810	836	990	1,307
Kenya (c)—							
Sheets and wire ..	115	655	2,754	1,669	672	1,239	1,092
Southern Rhodesia—							
Ingots, bars, and sheets	95	836	1,505	372	198	233	221
Foil	17	56	21	13	28	31	25
South West Africa—							
Ingots, bars, sheets, etc.	13	185	132	138	30	34	(a)
Tanganyika—							
Sheets, strips, wire etc. ..	3	542	691	962	634	553	416
Uganda—							
Sheets and wire	(f)	(f)	(f)	574	433	1,222	944
Union of South Africa—							
Ingots, blocks, and pigs	259	473	434	387	1,211	1,945	2,096
Sheet, wire, foil, etc. ..	994	5,270	5,629	1,883	1,125	1,117	(a)
Aluminium sulphates ..	690	908	799	457	114	2,182	(a)
Barbados—							
Sheets	(a)	(a)	(a)	(£6,308)	(£10,636)	(£4,216)	(£14,317)
Canada (d)—							
Bauxite	1,145,693	1,243,476	1,793,298	1,600,572	1,662,167	2,144,428	2,191,847
Cryolite	2,532	6,481	5,974	1,364	3,334	5,818	2,005
Alumina	162	165	132	182	214	245	287
Ingots, rods, sheets, etc.	4,149	4,264	2,880	3,189	1,965	4,859	3,367
Scrap	521	113	185	51	379	40	459
Leaf and foil	(£23,080)	(£126,725)	(£41,056)	(£36,311)	(£43,122)	(£61,509)	(£68,501)
Aluminium sulphates ..	24,752	4,667	2,347	3,744	3,518	7,989	9,262
Newfoundland (e)—							
Sheets, plates, foil, etc. ..	8	28	36	(c)	(c)	(c)	(c)
Aluminium sulphates ..	1,098	227	1,589	(c)	(c)	(c)	(c)
Trinidad and Tobago—							
Aluminium sulphates ..	(a)	(a)	95	1,128	460	833	411
Aden—							
Aluminium sulphates ..	9	11	2	—	—	—	—
Ceylon—							
Foil	336	472	421	433	593	475	196
Hong Kong (total imports)							
Unwrought	(a)	(a)	(a)	(a)	(a)	(a)	104
Scrap	(a)	(a)	(a)	(a)	(a)	(a)	27
Plates and sheets, etc. ..	(a)	(a)	(a)	(a)	(a)	(a)	575
India—							
Ingots, blocks, bars, etc.	7,345	3,368	830	—	1,836	3,189	1,520
Sheets and circles ..	2,685	6,692	6,023	7,873	3,691	3,349	1,745
Aluminium sulphates ..	857	2,743	810	575	1,433	1,522	121

(a) Information not available.

(b) Excess of re-exports.

(c) Years ended March 31 of year following that stated. Included with Canada from April 1, 1949.

(d) Including Newfoundland from April 1, 1949.

(e) Including Uganda up to 1948 inclusive.

(f) Included with Kenya.

IMPORTS OF ALUMINIUM, ETC. (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES (Cont.)							
Malaya (total imports)—							
Bars, sheets and strips ..	245	1,286	2,363	2,547	3,195	6,475	4,528
Aluminium sulphates ..	2,062	1,734	2,228	1,628	3,451	5,383	1,180
Pakistan (e)—							
Ingots, blocks, bars, etc.	(a)	(a)	(a)	(a)	(a)	123	(a)
Sheets and circles ..	(a)	(a)	(a)	(a)	(a)	1,595	2,073
Aluminium sulphates ..	(a)	(a)	(a)	(a)	(a)	2,524	985
Palestine—							
Ingots and sheets ..	312	(a)	(a)	(f)	(f)	(f)	(f)
Foil	84	(a)	(a)	(f)	(f)	(f)	(f)
Australia—							
Bauxite	—	—	10	—	6	98	—
Cryolite	26	74	23	17	(c) 34	62	2,038
Pigs, ingots and blocks	} 1,811	4,219	4,726	} 7,185	5,916	11,389	7,899
Scrap							
Sheets, wire, rods, etc. ..	156	308	1,438	3,847	3,230	3,815	3,682
Pipes and tubes (£ Aust.)	(£201,389)	(£235,878)	(£18,314)	69	422	423	228
Foil (c)	214	298	440	450	653	1,092	1,485
Aluminium sulphates ..	28	(d) 21	93	36	464	452	102
New Zealand—							
Bars, sheets, tubes, wire, etc.	135	523	2,277	2,891	3,505	2,513	3,844
Irish Republic—							
Ingots and sheets etc. ..	699	1,374	} 672	} 1,101	933	624	2,110
Foil	33	38			123	186	207	246
Aluminium sulphates ..	1,744	1,766	1,500	1,614	2,175	3,137	2,239
FOREIGN COUNTRIES							
Austria—							
Bauxite	} (a)	} (a)	} (a)	} 2,933	} 4,972	} 7,719	} 5,870
Cryolite							
Alumina							
Aluminium hydrates ..							
Crude, scrap and alloys ..							
Sheets, rods, wire, etc. ..							
Foil							
Aluminium sulphates ..	2,295	2,662	4,656	2,339	133	60	
Belgium-Luxemburg E.U.—							
Bauxite	(a)	(a)	1,922	574	890	2,192	1,514
Alumina	(a)	(a)	} 4,519	522	124	1,245	88
Aluminium hydrates ..							
Crude	(a)	(a)	5,392	7,448	8,545	14,148	13,048
Scrap	(a)	(a)	1,215	847	2,028	852	685
Sheets, etc.	(a)	(a)	1,350	1,463	1,646	1,753	717
Aluminium sulphates ..	(a)	(a)	240	755	1,174	1,158	1,011
Bulgaria—							
Crude, bars and sheets ..	222	(a)	(a)	(a)	(a)	(a)	(a)
Aluminium sulphates ..	372	(a)	(a)	(a)	(a)	(a)	(a)
Czechoslovakia—							
Bauxite	1,353	2,353	(b) 5,586	(a)	(a)	(a)	(a)
Cryolite	256	449	(b) 138	(a)	(a)	(a)	(a)
Alumina	—	1,835	(b) 1,403	(a)	(a)	(a)	(a)
Crude and scrap	973	7,446	(b) 10,876	(a)	(a)	(a)	(a)
Aluminium sulphates ..	107	325	(b) 165	(a)	(a)	(a)	(a)

(a) Information not available..

(b) January to October.

(c) Years ended June 30 of that stated.

(d) Excess of re-exports.

(e) Years ended March 31 of year following that stated. Included with India prior to 1948.

(f) See "Israel" under Foreign Countries.

IMPORTS OF ALUMINIUM, ETC. (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Denmark—							
Crude cryolite	20,827	21,211	24,013	27,153	25,484	30,664	40,029
Crude	2,235	3,061	2,527	2,975	3,063	3,138	3,565
Scrap	65	107	208	27	155	62	261
Bars, sheets, plates and wire	1,654	2,108	1,383	1,412	1,914	3,042	1,929
Leaf	307	300	256	145	305	405	388
Aluminium sulphates ..	1,760	2,447	2,992	2,596	3,304	3,494	2,706
Finland (total imports)—							
Alumina	47	12	28	24	25	17	17
Crude	440	478	508	522	630	1,579	(a)
Bars and sheets	352	681	1,700	1,446	1,358	2,110	(a)
Aluminium sulphates ..	6,906	9,362	6,662	7,195	8,154	16,003	(a)
France—							
Bauxite	11	611	—	94	69	89	2,494
Cryolite	2,376	59	3,008	787	1,243	1,679	2,902
Alumina	893	5	213	—	50	96	107
Aluminium hydrates ..	360	—	—	63	1	77	12
Cryolite, artificial ..	354	—	(a)	(a)	(a)	(a)	(a)
Ingots	11,078	25,831	25,389	5,268	786	1,438	4,421
Scrap	1,776	3,890	(a)	(a)	(a)	934	(a)
Sheets, wire, etc. ..	1,776	931	176	149	333	1,033	1,899
Aluminium sulphates ..	1	—	10	10	1	12	5
Germany (Federal)—							
Bauxite and cryolite ..	(a)	(a)	87,812	96,375	210,779	610,212	1,025,872
Crude and alloys ..			15,891	15,500	4,973	11,364	9,537
Scrap			1,109	2,099	1,074		
Sheets, wire, castings, etc.			696	12	39	308	47
Aluminium sulphates, etc. including refined bauxite			—	29	13	(a)	182
Greece—							
Aluminium	295	579	798	962	2,581	1,268	1,171
Foil	35	185	288	410	515	147	63
Aluminium sulphates ..	545	84	1,218	329	166	55	3
Iceland—							
Aluminium sulphates ..	11	(a)	(a)	5	3	1	(a)
Italy—							
Bauxite	7,670	27,042	118,234	83,212	81,246	86,776	192,313
Cryolite	(a)	(a)	(a)	(a)	(b) 614	2,070	2,851
Alumina	1,476	504	—	96	21	27	11
Crude, scrap and alloys ..	20	6,269	8,880	7,241	19,487	6,497	6,415
Aluminium sulphates ..	(a)	23	—	39	490	59	74
Netherlands—							
Bauxite	98	577	295	297	298	266	443
Cryolite	(a)	(a)	(a)	(a)	430	420	108
Crude and alloys	5,489	9,579	9,522	3,925	4,331	5,781	6,665
Foil	141	395	497	378	1,203	1,139	756
Aluminium sulphates ..	5,844	4,187	6,182	7,191	8,376	9,355	7,378
Norway—							
Bauxite	6,991	28,310	39,238	24,087	36,570	19,833	40,747
Cryolite	644	1,891	2,605	2,578	3,177	2,928	5,491
Alumina	17,217	35,159	45,184	64,216	79,732	74,462	71,359
Crude	—	492	238	472	998	1,667	1,561
Bars, sheets, etc. ..	145	1,324	611	692	434	1,235	1,452
Aluminium sulphates ..	5,273	7,821	5,981	6,942	7,707	8,367	7,017
Poland—							
Bauxite	8,027	14,021	(a)	(a)	(a)	(a)	(a)
Crude, scrap, sheets and wire	2,266	4,082	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

(b) July to December only.

IMPORTS OF ALUMINIUM, ETC. (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Portugal—							
Cryolite	34	26	33	19	28	36	—
Powder	37	54	74	96	74	104	107
Ingots, sheets and wire	964	1,495	807	1,204	1,620	1,245	1,242
Aluminium sulphates ..	1,098	991	673	501	835	993	648
Spain—							
Alumina	2,182	2,063	2,370	1,931	4,854	8,693	864
Ingots and scrap	2,028	2,802	2,106	2,786	1,634	1,449	(a)
Sheets, tubes and wire ..	28	43	14	26	18	257	(a)
Sweden—							
Bauxite	16,634	27,642	19,785	17,357	9,299	7,240	8,691
Cryolite (incl. artificial)..	688	496	313	713	901	735	924
Alumina	1,782	2,797	6,925	7,506	12,454	21,012	13,719
Crude	7,916	9,612	13,350	13,149	8,228	11,503	14,880
Scrap	2,381	1,502	1,315	720	428	333	258
Sheets, tubes and wire ..	2,561	3,923	4,768	3,067	1,582	3,678	3,651
Aluminium sulphates ..	227	852	167	637	113	772	2,807
Switzerland—							
Alumina, etc.	25,948	44,750	45,327	46,844	40,118	54,679	60,242
Blocks, ingots, etc., and scrap	7,866	7,048	6,921	8,918	2,702	5,039	4,870
do. (alloyed).. .. .	13	173	235	39	87	159	95
Bars, sheets, tubes and wire	432	1,124	276	6	116	344	210
do. (alloyed).. .. .	55	122	164	9	45	61	96
Aluminium sulphates ..	351	322	243	134	401	273	178
Yugoslavia—							
Crude	(a)	(a)	(a)	(a)	64	—	71
Sheets, tubes, wire, etc.	(a)	(a)	(a)	(a)	1,071	598	1,476
Algeria—							
Bauxite	28	1,598	424	199	22	521	2,980
Ingots, sheets, wire, etc.	533	758	170	284	824	856	(a)
Aluminium sulphates ..	212	223	401	148	368	330	(a)
Egypt—							
Bars, sheets, tubes and wire	239	117	340	411	446	541	581
Foil	130	104	334	264	172	531	229
Aluminium sulphates ..	7,865	3,567	8,142	5,609	6,447	12,870	787
Madagascar—							
Aluminium sulphates ..	44	36	27	(a)	(a)	(a)	(a)
Mozambique—							
Bars, sheets, wire	13	103	210	222	155	52	(a)
Tunis—							
Ingots and scrap	147	393	9	(a)	(a)	(a)	(a)
Aluminium sulphates ..	100	105	60	(a)	(a)	(a)	(a)
Costa Rica—							
Bars, sheets, foil, etc. ..	305	740	207	89	(a)	(a)	(a)
Cuba (total imports)—							
Ingots and bars	(a)	(a)	420	238	392	352	(a)
Aluminium sulphates ..	(a)	(a)	1,509	1,522	1,600	1,100	(a)
Guatemala—							
Aluminium sulphates ..	(a)	(a)	202	639	1,472	856	(a)
Mexico—							
Alumina	489	607	635	705	1,275	1,334	1,937
Ingots	198	1,841	1,031	2,350	2,550	3,308	1,974
Bars, sheets and wire ..	1,585	3,859	3,178	1,848	2,272	3,025	1,836
Foil	1,286	670	133	106	89	100	28
Aluminium sulphates ..	924	(a)	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

IMPORTS OF ALUMINIUM, ETC. (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
United States—							
Bauxite, crude	852,005	1,821,580	2,488,915	2,688,164	2,476,686	2,829,929	3,508,146
Refined bauxite	5	(a)	6	157	194	18,642	29,212
Cryolite	10,200	19,650	2,101	18,309	15,298	34,688	34,262
Crude and alloys	37,042	13,910	74,254	69,056	157,838	109,289	114,494
Scrap	12,983	14,034	64,055	35,822	60,678	17,865	6,248
Sheets, bars, etc. .. .	971	28	5,344	7,021	9,781	17,324	13,846
Foil (d)	51	36	16	176	265	724	848
Aluminium sulphates ..	—	72	4,962	1,313	2,763	4,627	6,588
Argentina—							
Bauxite	2,065	(a)	(a)	(a)	(a)	(a)	(a)
Ingots, sheets and wire ..	2,591	7,079	12,430	7,064	12,717	5,541	(a)
Aluminium sulphates .. .	3,910	(a)	(a)	(a)	(a)	(a)	(a)
Brazil (total imports)—							
Cryolite	132	77	148	107	(a)	805	246
Bars, sheets and wire .. .	2,968	5,664	6,667	9,001	9,655	14,426	9,454
Scrap	1,053	527	677	328	(a)	(a)	(a)
Aluminium sulphates .. .	3,127	3,488	1,514	1,968	3,184	6,788	4,691
Chile—							
Bars and sheets	458	110	533	953	542	421	408
Aluminium sulphates .. .	358	(a)	(a)	(a)	(a)	(a)	(a)
Colombia—							
Ingots, bars, sheets, etc. .	1,119	(a)	(a)	(a)	(a)	(a)	(a)
Aluminium sulphates .. .	2,074	(a)	(a)	2,775	4,647	(a)	(a)
Peru—							
Ingots, scrap and alloys ..	30	(a)	—	5	3	10	2
Aluminium sulphates .. .	1,142	(a)	1,117	952	905	1,439	1,486
Uruguay—							
Bauxite	—	295	—	1,998	—	984	(a)
Ingots, sheets, etc. .. .	360	1,038	810	320	1,669	2,815	(a)
Aluminium sulphates .. .	2,959	2,617	3,866	2,467	3,184	3,960	(a)
Venezuela—							
Crude	224	143	42	28	(a)	(a)	(a)
Aluminium sulphates .. .	528	676	1,236	1,487	894	1,845	(a)
China—							
Sheets and wire	3,559	4,484	2,153	(a)	(a)	(a)	(a)
Foil, including interleaved with paper	673	1,190	1,565	(a)	(a)	(a)	(a)
Formosa—							
Bauxite	(a)	(a)	(a)	(a)	(a)	(a)	22,706
Iran (b)—							
Ingots, sheets, scrap, etc. .	311	214	(a)	(a)	(a)	259	(a)
Aluminium sulphates .. .	103	68	(a)	(a)	(a)	9	(a)
Iraq—							
Bars, sheets, wire, etc. ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Aluminium sulphates .. .	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Israel—							
Ingots and sheets	(c)	(c)	(c)	2,777	6,832	(a)	(a)
Foil	(c)	(c)	(c)	69	81	(a)	(a)
Japan—							
Bauxite	2,830	—	94,200	86,594	106,515	329,095	112,864
Ingots, blocks, etc. .. .	(a)	(a)	(a)	(a)	—	—	(a)
Syria and Lebanon—							
Aluminium sulphates .. .	234	—	7	156	(a)	(a)	(a)
Turkey—							
Bars, sheets, wire and alloys	133	454	243	173	275	1,490	601
Aluminium sulphates .. .	764	1,562	1,188	1,215	1,057	1,981	2,017

(a) Information not available.

(b) Total imports for years ended March 20 of the year following that stated.

(c) See "Palestine" under British Countries.

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

ANTIMONY

PRODUCTION OF ANTIMONY ORE

(In terms of metal)

(Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Southern Rhodesia ..	17	87	10	42	25	78	131
Union of South Africa ..	2,485	3,250	4,040	4,290	8,179	15,527	7,097
Canada (b) ..	—	—	—	—	—	—	—
Pakistan	200	—	—	—	—	—	—
Sarawak	—	—	3	1	2	—	—
Australia (d)	530	170	187	195	226	382	130
New Zealand	—	—	(e) 5	(c) 2	—	—	(e) 6
FOREIGN COUNTRIES							
Austria	35	99	265	371	402	490	383
Czechoslovakia (f) ..	2,300	4,400	4,000	(a)	2,000	(a)	(a)
France	217	198	271	333	401	601	(e) 580
Greece	—	—	—	(e) 90	(e) 600	(e) 680	(e) 330
Italy	440	500	550	495	661	781	767
Portugal	3	25	40	21	15	19	139
Spain	275	143	235	270	210	(c) 174	247
Yugoslavia	1,861	1,340	1,949	2,745	3,154	1,942	(a)
Algeria	—	118	840	1,376	1,230	1,440	1,299
Morocco (French) ..	250	413	443	611	695	942	827
do. (Spanish) ..	111	156	118	153	284	201	407
Honduras	—	—	10	(a)	(a)	(a)	(a)
Mexico	6,468	6,816	7,264	5,662	5,776	6,717	5,444
United States (g) ..	2,237	4,746	5,794	1,461	2,229	3,136	1,929
Bolivia (exports) ..	6,854	10,686	12,066	10,113	8,630	11,629	9,651
Peru	1,194	1,272	1,610	728	(c) 2,238	2,575	(a)
Burma (e)	—	40	(a)	70	38	193	96
China (f)	419	1,879	3,200	4,000	6,000	8,000	8,000
Japan	31	100	133	184	158	220	206
Siam	—	112	105	229	85	64	69
Turkey	80	130	650	570	1,585	2,664	1,138
TOTAL* (c)	26,000	36,700	43,800	37,000	44,800	61,500	46,500

*Excluding antimony ore produced in the U.S.S.R., and Argentina.

(a) Information not available.

(b) The following figures represent the antimony content of antimonial lead (long tons): 1946—287; 1947—513; 1948—138; 1949—71; 1950—287; 1951—2,992 (including antimony in flue dust produced in previous years); 1952—1,116.

(c) Revised.

(d) In addition the antimony content of antimonial slag obtained as a by-product of lead refining, was as follows: long tons): 1946—394; 1947—309; 1948—338; 1949—265; 1950—288; 1951—333; 1952—(a).

(e) Estimated.

(f) United States Bureau of Mines.

(g) Secondary metal was recovered as follows (long tons): 1946—17,067; 1947—20,522; 1948—19,279; 1949—16,126; 1950—19,520; 1951—21,378; 1952—20,615.

EXPORTS OF ANTIMONY, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Regulus and refined ..	489	357	660	807	1,595	1,220	1,243
Southern Rhodesia—							
Ore	26	105	5	76	87	164	89
Union of South Africa—							
Ore	4,156	3,629	6,475	6,975	12,099	22,356	9,381
Canada—							
Antimonial lead ..	—	—	370	1	256	204	368
<i>(Sb content)</i>							
Hong Kong (re-exports)—							
Crude and regulus ..	1,159	4,988	1,435	1,491	1,816	7	—
Sarawak—							
Ore	—	—	2	2	5	—	—
Australia—							
Ore and concentrates (b)	723	113	464	59	(e) 208	(e) —	(e) 36
FOREIGN COUNTRIES							
Austria—							
Ore	(a)	148	365	496	558	307	406
Belgium-Luxemburg E.U.—							
Regulus	(a)	(a)	1,714	1,419	2,394	2,321	1,068
Oxide	(a)	(a)	(a)	257	637	759	418
Czechoslovakia—							
Regulus	738	269	(c) 989	(a)	(a)	(a)	(a)
Denmark—							
Regulus	—	49	13	10	10	—	—
France—							
Crude and regulus ..	17	14	(a)	(a)	(a)	(a)	131
Oxide	(d) 4	(d) 3	(d) 3	18	53	214	4
Germany (Federal)—							
Ore, including arsenical							
ores	}	(a)	{	15	20	(a)	(a)
Regulus and scrap ..				—	—	—	—
Oxide, etc.				—	14	193	333	20
Greece—							
Ore	(a)	(a)	(a)	(a)	(a)	59	196
Italy—							
Regulus	46	13	152	99	—	173	—
Netherlands—							
Regulus and scrap ..	—	8	24	6	6	3	2
Portugal—							
Ore	2	18	69	59	21	24	36
Spain—							
Regulus	20	5	—	—	46	59	(a)
Sweden—							
Crude	13	44	16	28	29	33	25
Regulus	5	11	3	2	6	—	9
Yugoslavia—							
Regulus	(a)	(a)	(a)	(a)	1,630	1,097	1,101
Waste	(a)	(a)	(a)	(a)	—	1,798	1,033

(a) Information not available.

(b) Years ended June 30 of that stated.

(c) January to October only.

(d) Including sulphide and other compounds.

(e) *Sb content* of all ores and concentrates.

EXPORTS OF ANTIMONY, ETC. (Cont.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Algeria—							
Ore	147	—	1,445	3,116	2,965	3,030	3,431
Morocco (French)—							
Ore	606	1,150	805	794	1,279	1,831	883
Regulus	(a)	(a)	—	—	(a)	(a)	22
Morocco (Spanish)—							
Ore	231	284	534	295	694	607	(a)
Honduras—							
Ore (Sb content) ..	(a)	(a)	10	(a)	(a)	(a)	(a)
Mexico—							
Ore	16,936	19,763	26,865	9,308	9,381	13,986	8,712
Concentrates	137	151	245	47	—	96	—
Regulus	73	107	79	739	1,274	1,067	953
Sb content (b)	5,906	5,965	6,462	4,041	3,439	4,733	3,328
United States—							
Ore	2	691	61	31	6	5	22
Metal and alloys	410	249	230	402	132	145	122
Compounds	—	(a)	(a)	199	164	311	191
Bolivia—							
Ore (Sb content)	6,854	10,686	12,066	10,113	8,630	11,629	9,651
Peru—							
Ore and metal (Sb content)	1,079	1,029	1,336	676	992	1,224	466
China—							
Crude	—	49	376	(a)	(a)	(a)	(a)
Regulus	4,658	8,390	4,249	(a)	(a)	(a)	(a)
Oxide	—	3	(a)	(a)	(a)	(a)	(a)
Japan—							
Regulus (Sb content) ..	(a)	236	(a)	(a)	2	(a)	(a)
Siam—							
Ore	(a)	(a)	(a)	342	273	(a)	(a)
Turkey—							
Ore	120	295	1,497	268	1,434	1,589	400
Regulus	(a)	(a)	(a)	171	95	248	—

(a) Information not available.

(b) Total metal content of above items and not additional

IMPORTS OF ANTIMONY, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952					
BRITISH COUNTRIES												
United Kingdom—												
Ore and concentrates (d)	10,470	12,200	14,791	11,694	14,172	25,744	17,541					
Refined and regulus ..	477	105	(b) 1	5	(a)	(a)	(a)					
Southern Rhodesia—												
Refined and regulus ..	1	16	5	6	14	11	13					
Union of South Africa—												
Refined and regulus ..	55	108	116	101	176	373	(a)					
Canada—												
Regulus	831	1,286	488	1,153	1,434	608	769					
Oxide	(a)	(a)	(a)	(a)	(a)	45	77					
Hong Kong (total imports)—												
Ore	—	19	} 2,142	1,954	168	—	—					
Crude and regulus ..	3,713	4,470										
Australia—												
Concentrates	411	1,127	1,062	551	709	1,054	510					
Crude and regulus ..	—	3	1	11	339	61	14					
Sulphide	—	1	—	—	—	—	—					
New Zealand—												
Regulus	—	66	163	86	109	135	114					
Oxide	(a)	(a)	(a)	(a)	77	98	(a)					
FOREIGN COUNTRIES												
Austria—												
Regulus	(a)	81	70	204	129	44	97					
Belgium-Luxemburg E.U.—												
Regulus	(a)	(a)	35	16	27	80	13					
Denmark—												
Regulus	192	254	231	132	406	174	120					
France—												
Ore	1,411	2,354	(a)	(a)	(a)	3,361	4,482					
Crude and regulus ..	716	2,095	(a)	(a)	(a)	388	300					
Oxide and sulphide ..	16	20	—	(c) 4	(c) 25	32	12					
Germany (Federal)—												
Ore and matte	} (a)	(a)	{ 654	490	1,197	(e) 1,048	(a)					
Regulus and scrap ..								949	679	458	1,236	260
Oxide, etc.								16	19	236	184	97
Italy—												
Ore	(a)	(a)	(a)	(a)	45	89	2					
Regulus	96	75	38	51	246	24	77					
Oxide	10	36	12	51	339	57	151					
Netherlands—												
Regulus and scrap ..	370	663	332	(f) 533	(f) 448	313	102					
Oxide	(a)	(a)	(a)	(a)	494	500	167					
Norway—												
Regulus	115	50	136	22	139	88	29					
Portugal—												
Crude and alloys ..	17	31	25	8	23	16	31					
Oxide	6	28	29	15	12	6	5					
Sulphide	14	2	1	—	4	—	—					
Spain—												
Sulphide	15	2	7	2	6	1	(a)					
Sweden—												
Crude	119	75	63	50	95	170	15					
Regulus	321	300	366	184	327	315	147					

(a) Information not available

(b) Excess of re-exports.

(c) Oxide only.

(d) Including crude.

(e) January to September only

(f) Scrap only.

IMPORTS OF ANTIMONY, ETC. (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Switzerland—							
Regulus	290	368	249	169	263	290	108
Algeria—							
Regulus	36	13	74	6	3	17	23
Tunis—							
Regulus and sulphide ..	8	4	13	(a)	(a)	(a)	(a)
Mexico—							
Oxide and sulphide ..	50	28	3	6	4	8	1
United States—							
Ore (<i>Sb content</i>) ..	5,271	8,288	12,083	6,673	8,717	10,629	7,094
Regulus, crude, etc. ..	2,315	5,264	3,312	1,727	4,153	1,992	3,016
Oxide	—	—	—	50	1,035	1,821	1,577
Argentina—							
Ore	761	(a)	(a)	(a)	(a)	(a)	(a)
Regulus and crude ..	3	(a)	(a)	(a)	(a)	(a)	(a)
Brazil—							
Regulus	223	386	43	124	(a)	280	107
Oxide	56	62	51	112	(a)	158	52
Sulphide	209	98	76	68	(a)	229	128
Chile—							
Regulus	115	35	53	(a)	(a)	(a)	(a)
Oxide and sulphide ..	1	(a)	(a)	(a)	(a)	(a)	(a)
Peru—							
Regulus and sulphides ..	7	(a)	2	6	1	9	2
Uruguay—							
Regulus	(a)	(a)	1	12	10	11	(a)
Oxide	(a)	(a)	21	4	10	6	(a)
Japan—							
Ore and concentrates ..	(a)	(a)	(a)	(a)	169	1,698	452
Regulus	(a)	(a)	(a)	(a)	238	10	(a)
Turkey—							
Regulus	11	4	10	4	—	—	—

(a) Information not available.

ARSENIC
PRODUCTION OF ARSENIC
(Long tons)

Producing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Great Britain—							
White arsenic and arsenic soot	145	90	(a)	(a)	(a)	(a)	(a)
Southern Rhodesia—							
White arsenic	212	409	279	146	112	75	507
Union of South Africa—							
White arsenic	8	2	9	—	—	—	—
Canada—							
White arsenic	333	352	519	235	354	1,051	683
Pakistan—							
Orpiment	36	—	—	—	—	—	—
Australia—							
White arsenic	1,624	1,191	512	(c) 253	(e) 200	(c) 120	(c) 120
New Zealand—							
White arsenic	18	8	8	19	10	—	—
FOREIGN COUNTRIES							
Belgium (exports)—							
White arsenic	(a)	(a)	149	519	1,879	320	987
Finland—							
Concentrates (<i>As content</i>)	—	—	—	30	67	162	138
France—							
White arsenic (b)	3,664	3,910	3,148	2,424	3,450	5,218	(a)
Germany (exports)—							
White arsenic, etc.	(a)	(a)	36	1,064	1,106	3,449	109
Greece—							
White arsenic	8	14	19	20	32	55	87
Italy—							
Mispickel (<i>As content</i>)	840	1,654	710	915	990	1,140	1,190
White arsenic	1,400	1,600	1,700	1,420	715	1,741	2,110
Portugal—							
Arsenic oxide (d)	500	989	1,590	960	598	735	1,343
Spain—							
Arsenic oxide (e) (b)	(a)	1,707	1,338	513	343	400	515
Sweden—							
Ore (<i>As content</i>) (f)	3,010	2,663	2,682	2,437	1,871	977	(a)
Mexico—							
White arsenic	9,496	9,533	7,452	3,520	8,845	12,561	2,820
United States—							
White arsenic	9,117	16,746	17,292	11,424	11,851	14,455	13,994
Brazil—							
White arsenic	816	985	1,003	943	1,050	1,300	948
Peru—							
White arsenic	741	598	995	—	—	—	(a)
Iran—							
Ore	(a)	500	(a)	(a)	750	(a)	(a)
Japan—							
White arsenic (b)	716	1,391	2,243	2,574	1,637	1,719	1,553

White arsenic is also produced in U.S.S.R., China and Korea.

(a) Information not available.

(b) Revised.

(c) Estimated.

(d) Content of pyrites mined.

(e) Content or ore.

(f) Directly usable ore only. Figures for concentrates (which are much larger) are not available. See exports.

EXPORTS OF ARSENIC, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
White arsenic and other compounds of arsenic ..	532	327	146	146	4,554	3,583	4,746
Southern Rhodesia—							
White arsenic	—	10	—	—	—	—	—
Canada—							
White arsenic, etc. (e) ..	767	1,951	1,809	1,732	1,593	2,166	1,594
Hong Kong (re-exports)—							
Arsenic	—	1	(a)	(a)	—	—	—
Australia—							
White arsenic	12	12	14	24	16	9	—
Other compounds ..	(b) 20	(b) —	(b) 35	68	64	25	174
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Sulphide	(a)	(a)	109	50	124	142	94
White arsenic	(a)	(a)	149	519	1,879	320	987
Arsenates	(a)	(a)	940	223	877	615	1,110
France—							
White arsenic	3	83	27	64	834	4,941	2,564
Arsenate of lead	940	3,240	132	19	44	49	20
Other arsenates	(c) 10	(c) 139	1,533	439	497	240	236
Germany (Federal)—							
Ore, including antimony ore	(a)	(a)	15	20	232	(a)	(a)
White arsenic, etc. ..	(a)	(a)	36	1,064	1,106	3,449	109
Arsenates	(a)	(a)	(a)	(a)	(a)	(a)	1,131
Italy—							
White arsenic	(a)	—	964	345	35	12	20
Portugal—							
Ore	170	39	299	—	50	—	225
White arsenic	299	719	1,104	732	1,225	794	1,200
Sweden—							
White arsenic	(a)	(a)	(a)	(a)	9,922	16,511	10,721
Mexico—							
White arsenic, pure ..	6,517	6,848	6,104	4,610	7,628	4,760	3,490
do. crude	3,493	3,040	1,657	106	3,505	4,445	262
Ores and concentrates ..	152	—	83	—	—	180	—
As ₂ O ₃ content (d) ..	9,211	8,981	7,152	3,368	8,429	11,572	2,236
United States—							
Arsenate of lead	1,248	1,386	910	384	464	280	114
Arsenate of lime	3,070	2,218	2,040	1,807	1,722	2,391	2,503
Peru—							
White arsenic	2,846	441	570	366	7	391	(a)
Turkey—							
Ore	—	3	1	2	5	2	2

(a) Information not available.

(b) Years ended June 30 of that stated.

(c) Arsenate of soda only.

(d) Total content of above items and *not* additional.

(e) Including arsenic contained in gold ores exported.

IMPORTS OF ARSENIC, ETC.
(Less Re-exports)
(Long tons)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
White arsenic	4,269	5,706	7,387	2,965	5,803	6,780	8,308
Other compounds ..	(d) 262	1	—	(d) 1	—	8	(d) 4
Union of South Africa—							
Arsenate of soda (b) ..	33	11	—	—	—	—	(a)
Canada—							
Sulphide and white arsenic	—	110	38	115	7	16	9
Arsenate of lead	—	2	—	—	—	2	33
Arsenate of lime	27	—	—	—	—	26	60
Hong Kong (total imports)—							
Arsenic	—	5	(a)	(a)	(a)	(a)	(a)
India—							
Arsenic and its oxides ..	131	990	135	64	73	185	83
Pakistan (e)—							
Arsenic and its oxides ..	(a)	(a)	(a)	(a)	(a)	3	18
Australia—							
White arsenic	1,645	1,586	1,227	1,271	2,149	1,974	2,609
Other compounds	66	56	156	147	122	190	92
New Zealand—							
White arsenic, etc. ..	31	56	16	70	29	76	176
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
White arsenic	(a)	(a)	394	104	97	15	2
Bulgaria—							
White arsenic	12	(a)	(a)	(a)	(a)	(a)	(a)
Czechoslovakia—							
Sulphide	20	102	(c) 33	(a)	(a)	(a)	(a)
Metallic arsenic	1	16	(c) 13	(a)	(a)	(a)	(a)
White arsenic	68	88	(c) 138	(a)	(a)	(a)	(a)
France—							
Sulphide	2	6	(a)	(a)	(a)	(a)	(a)
Metallic arsenic	—	4	(a)	(a)	(a)	22	13
White arsenic	258	394	1,057	434	65	12	—
Arsenate of lead	2	41	—	—	—	—	—
Germany (Federal)—							
White arsenic, etc. ..	(a)	(a)	3,004	51	1,696	2,459	2,044
Italy—							
White arsenic	(a)	249	456	381	213	303	375
Metallic arsenic	—	2	1	—	2	(a)	(a)
Netherlands—							
White arsenic	(a)	(a)	10	19	76	144	291
Arsenates	(a)	(a)	300	207	400	265	789
Portugal—							
Metallic arsenic	—	1	1	—	—	—	1
White arsenic	49	1	1	—	1	—	—
Arsenate of soda	8	3	—	2	3	1	1
Spain—							
Arsenic	2	—	—	—	—	—	(a)
Algeria—							
White arsenic	—	11	3	49	17	17	17
Sulphide	—	2	—	2	5	1	1
Arsenates	107	177	27	18	25	30	29
Madagascar—							
Arsenates	22	36	10	(a)	(a)	(a)	(a)

(a) Information not available.

(b) Includes arsenite of soda.

(c) January to October only.

(d) Excess of re-exports.

(e) Years ended March 31 of year following that stated. Included with India prior to 1948.

IMPORTS OF ARSENIC, ETC. (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Tunis—							
Sulphide	—	—	1	(a)	(a)	(a)	(a)
Arsenates	5	—	1	(a)	(a)	(a)	(a)
Mexico—							
Arsenates	(a)	(a)	300	207	627	2,384	1,066
United States—							
Metallic arsenic	41	8	16	20	62	99	27
White arsenic	12,340	12,446	8,336	4,193	13,191	12,963	4,003
Sulphide	39	20	40	20	66	66	(a)
Arsenates of lime and soda	—	—	—	—	151	774	115
Argentina—							
Sulphide	2	(a)	(a)	(a)	(a)	(a)	(a)
White arsenic	708	(a)	(a)	(a)	(a)	(a)	(a)
Compounds	5	(a)	(a)	(a)	(a)	(a)	(a)
Brazil—							
White arsenic	654	791	360	367	(a)	96	912
Arsenate of lead	425	275	177	1,271	(a)	2	137
Chile—							
Metallic arsenic	25	}	(a)	(a)	(a)	(a)	(a)
White arsenic	21						
Arsenate of lead	13						
Other arsenic compounds	6						
Colombia—							
White arsenic, etc.	28	(a)	a	(a)	(a)	(a)	(a)
Uruguay—							
White arsenic	(a)	(a)	179	266	311	200	(a)
Arsenate of lead	(a)	(a)	56	36	135	130	(a)
Venezuela—							
White arsenic	32	109	16	13	(a)	(a)	(a)
Turkey—							
Arsenic compounds	24	44	15	22	11	36	(a)

(a) Information not available.

ASBESTOS

PRODUCTION OF ASBESTOS

(Long tons)

Producing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Bechuanaland	—	—	—	—	—	36	398
Kenya	162	573	502	705	225	373	348
Southern Rhodesia ..	49,886	48,298	61,355	71,105	63,863	69,342	75,745
Swaziland	28,695	24,959	28,956	30,328	29,167	31,218	31,044
Union of South Africa—							
Amosite	8,782	16,791	27,127	37,615	37,851	48,262	56,500
Blue	7,760	8,106	9,735	18,695	27,320	30,053	39,942
Chrysotile	1,487	2,012	3,962	6,796	12,798	17,419	22,295
Anthophyllite	27	27	12	137	79	131	762
Canada (b)—							
Chrysotile	498,376	590,911	639,972	513,309	781,557	868,927	829,767
Crude	663	855	872	581	807	668	670
Fibre	203,780	198,389	216,029	173,735	272,495	297,322	313,968
Shorts and waste ..	293,933	391,667	423,071	338,992	508,255	570,937	515,138
Stone and gravel (waste rock only) (c)	5,658	8,580	39,433	31,510	42,863	30,145	31,533
Cyprus	4,077	6,687	7,978	12,358	14,752	16,909	16,294
India	293	160	28	146	208	518	683
Australia—							
Chrysotile	238	374	356	412	585	1,159	1,118
Crocidolite	374	928	647	1,173	1,031	1,399	2,940
Anthophyllite	9	75	284	—	—	—	—
Amphibole	—	—	40	59	1	—	—
New Zealand	—	—	—	—	41	813	682
Total	600,000	700,000	781,000	693,000	969,400	1,086,600	1,078,400
FOREIGN COUNTRIES							
Finland	5,690	6,252	10,647	10,320	10,776	12,049	10,266
France	566	919	1,288	1,073	7,338	6,977	(a)
Greece	4	39	9	9	30	33	25
Italy	8,675	10,303	12,838	15,122	21,094	22,255	23,560
Portugal	12	90	407	99	253	307	165
Spain	—	—	34	40	41	40	(a)
Yugoslavia	—	304	737	1,093	943	1,499	2,466
Egypt	64	999	1,599	115	256	1,227	59
Madagascar	1	—	—	2	—	17	3
Morocco (French) ..	439	778	394	396	503	591	567
United States—							
Chrysotile	12,489	21,841	33,247	38,320	36,927	46,187	48,114
Amphibole	390	605	—	—	—	—	—
Argentina	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Bolivia (exports) ..	—	139	145	204	163	311	457
Brazil	1,195	2,589	1,283	1,393	831	1,300	(a)
Chile	(a)	(a)	148	582	169	(a)	(a)
Venezuela	64	236	189	194	187	256	387
Japan—							
Chrysotile	3,891	3,640	4,517	5,126	5,575	5,787	3,008
Amphibole	43	542	216	244	—	—	—
Turkey	54	241	200	246	241	79	(a)
Total*	32,000	49,000	68,000	74,000	80,000	99,000	97,000
WORLD'S TOTAL* ..	632,000	749,000	849,000	767,000	1,049,000	1,186,000	1,175,000

*Excluding asbestos produced in Czechoslovakia, Roumania U.S.S.R., China and Korea.

(a) Information not available.

(b) Sales and shipments.

(c) Not included in total.

EXPORTS OF ASBESTOS
(Domestic Produce)
(Long tons)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Unmanufactured—							
Crude and fibre ..	632	830	1,136	1,923	2,434	2,665	3,159
Waste, incl. asbestic ..	296	1,221	638	920	1,163	1,021	1,184
Packing, etc.	10,335	10,816	12,624	11,388	10,683	13,581	12,176
Cement products ..	39,443	80,181	107,790	116,393	107,978	123,078	133,878
Yarn and cloth ..	1,708	1,696	1,887	2,002	1,995	2,290	2,311
Other manufactures ..	7,243	6,780	8,908	8,593	7,851	12,818	9,994
Kenya and Uganda (c)—							
Manufactured ..	37	202	5	(a)	3	—	(a)
Southern Rhodesia—							
Unmanufactured ..	55,129	50,290	60,503	65,007	65,874	61,012	74,228
Cement sheets ..	(£23,631)	(£17,961)	(£29,734)	(£122,052)	(£134,635)	(£136,254)	(£216,646)
Other manufactures ..	(£5,426)	(£15,448)	(£10,446)	(£26,581)	(£40,487)	(£52,560)	(£47,371)
Union of South Africa—							
Unmanufactured ..	42,762	57,827	57,127	82,244	90,695	112,946	122,018
Sheets .. (£ S.A.)	(£34,057)	(£40,700)	(£42,876)	(£61,032)	(£91,071)	(a)	(a)
Other manufactures ..	(£36,014)	(£63,496)	(£80,968)	(£109,976)	(£138,367)	(a)	(a)
Canada—							
Crude ..	571	851	779	563	754	589	618
Fibre ..	192,172	199,726	211,676	162,179	258,748	289,816	303,409
Shorts and waste ..	271,707	368,080	404,012	314,927	481,550	550,946	501,382
Manufactured ..	(£149,583)	(£168,232)	(£143,960)	(£96,969)	(£237,958)	(£507,794)	(£463,419)
Malaya (incl. re-exports)—							
Sheets ..	2	174	854	1,966	3,061	3,963	3,667
Other manufactures ..	9	5	25	93	59	104	112
Cyprus—							
Unmanufactured ..	6,606	7,021	7,980	11,098	15,471	15,088	18,187
Hong Kong (re-exports)—							
Unmanufactured ..	} (£5,082)	} (£11,608)	} (£12,984)	} (£44,188)	} (£114,977)	} (£326,041)	} (£208,317)
Manufactures ..							
Australia—							
Crude and fibre ..	496	652	278	346	385	588	1,170
Packing (£ Australian) (d)	(£2,846)	(£16,380)	(£4,493)	(£8,112)	(£15,636)	(£19,799)	(£12,316)
New Zealand—							
Unmanufactured ..	—	(a)	21	—	—	4	—
FOREIGN COUNTRIES							
Austria—							
Unmanufactured ..	(a)	283	29	61	21	29	5
Manufactured ..	(a)	2	48	50	136	233	147
Belgium-Luxemburg E.U.—							
Unmanufactured ..	(a)	(a)	36	685	626	692	1,016
Spun and woven ..	} (a)	} (a)	} 200	} 205	} 291	} 203	} 279
Paper and board ..							
Cement sheets and tiles							
Other manufactures ..							
Cement sheets and tiles			25,275	35,614	58,229	82,011	72,848
Other manufactures ..			63	25	32	221	30
Czechoslovakia—							
Unmanufactured ..	10	—	(b) —	(a)	(a)	(a)	(a)
Spun and woven ..	4	33	(b) 44	(a)	(a)	(a)	(a)
Paper and board ..	197	108	(b) 51	(a)	(a)	(a)	(a)
Other manufactures ..	17	64	(b) 21	(a)	(a)	(a)	(a)
Denmark—							
Cement sheets ..	61	66	128	169	10	873	1,304
Finland—							
Unmanufactured ..	995	1,583	2,472	1,798	2,264	2,880	(a)
Manufactured ..	614	820	1,054	980	800	860	(a)

(a) Information not available.

(b) January to October only.

(c) Crude asbestos is also exported but actual amounts are not available.

(d) Years ended 30 June of that stated.

EXPORTS OF ASBESTOS (Cont.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
France—							
Unmanufactured ..	76	137	264	445	2,062	2,504	2,802
Spun and woven ..	199	329	498	510	539	727	522
Paper and board ..	226	360	346	306	287	433	279
Brake linings ..	21	66	(a)	(a)	(a)	(a)	(a)
Germany—							
Unmanufactured ..	} (a)	(a)	} —	—	15	} 2,045	858
Spun and woven ..					48		
Paper and board ..					2		
Other manufactures ..					261		
Italy—							
Unmanufactured ..	(a)	1,313	3,283	3,962	2,840	1,384	1,552
Manufactured ..	(a)	5,631	7,269	15,369	31,779	27,189	33,080
Netherlands—							
Unmanufactured ..	—	17	8	41	8	27	29
Cement sheets, tiles, etc.	—	1,098	262	450	862	1,811	4,568
Portugal—							
Unmanufactured ..	—	14	172	35	166	78	71
Spain—							
Unmanufactured ..	3	7	9	1	2	10	(a)
Manufactured ..	77	75	35	35	252	499	(a)
Sweden—							
Unmanufactured ..	—	109	—	1	240	43	14
Manufactured ..	33	55	20	14	19	31	14
Switzerland (including mica)—							
Unmanufactured ..	1	1	49	61	91	38	106
Manufactured ..	243	372	399	262	281	397	278
Yugoslavia—							
Unmanufactured ..	(a)	(a)	(a)	(a)	34	204	40
Egypt—							
Unmanufactured ..	(a)	(a)	15	3	43	15	(a)
Madagascar—							
Unmanufactured ..	—	—	—	—	1	17	—
Morocco (French)—							
Unmanufactured ..	(a)	(a)	—	6	154	177	20
United States—							
Unmanufactured ..	9,831	1,863	5,830	15,733	16,876	12,766	9,166
Spun, woven and packing	2,078	1,876	1,406	1,079	1,085	1,051	1,119
Paper and board ..	583	963	1,463	—	—	—	—
Brake linings ..	(£627,251)	(£858,551)	(£655,638)	(£954,219)	(£1,223,801)	(£2,628,549)	(£1,821,697)
Clutch facings ..	(£124,081)	(£197,193)	(£136,709)	(£141,575)	(£206,083)	(£334,255)	(£519,934)
Pipe covering and cement	985	2,469	1,428	3,872	1,021	1,809	2,075
Other manufactures ..	7,602	5,004	3,319	19,073	11,540	13,176	14,904
Argentina—							
Manufactured ..	4	(a)	(a)	(a)	(a)	(a)	(a)
Bolivia—							
Unmanufactured ..	—	139	145	204	163	311	457
Brazil—							
Unmanufactured ..	—	50	—	—	(a)	(a)	(a)
Peru—							
Manufactured ..	620	(a)	(a)	(a)	(a)	(a)	(a)
Turkey—							
Unmanufactured ..	(a)	295	171	372	28	15	1

(a) Information not available.

IMPORTS OF ASBESTOS

(Less Re-exports)

(Long tons)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Unmanufactured—							
Crude and fibre ..	53,505	66,788	86,827	92,277	109,498	121,894	125,260
Waste, including							
asbestic	1,217	4,397	5,526	3,231	10,208	10,490	6,331
Packing, etc.	15	—	9	7	(a)	(a)	(a)
Cement products	932	2,050	1,030	3,328	6,521	5,291	2,480
Other manufactures	4	37	145	103	150	117	228
Channel Islands—							
Manufactures	(a)	(a)	1,071	1,315	1,203	1,224	(a)
Anglo-Egyptian Sudan—							
Sheets, pipes, etc.	701	877	3,097	3,485	2,249	3,889	2,689
Kenya (c)—							
Manufactured	551	1,149	3,149	3,399	3,020	3,797	3,434
Mauritius—							
Manufactured	(a)	(£5,317)	(£1,748)	26	16	178	488
Northern Rhodesia—							
Cement sheets, etc.	(a)	(a)	(a)	(£165,022)	(£224,620)	(£293,559)	(£401,250)
Nyasaland—							
Cement sheets, etc.	494	1,033	1,231	1,199	1,817	726	1,289
Seychelles—							
Cement sheets	22	83	269	272	131	249	557
Southern Rhodesia (total imports)—							
Cement sheets	(£4,764)	(£3,645)	(£8,524)	(£26,307)	(£20,274)	(£49,753)	(£95,051)
Other manufactures	(£18,544)	1,150	2,583	3,667	4,083	3,400	5,543
South West Africa—							
Packing (£ S.A.)	(£835)	(£2,584)	(£2,293)	(£4,467)	(£2,309)	(a)	(a)
Cement sheets (£ S.A.)	(£7,710)	(£19,490)	(£18,286)	(£14,882)	(£15,692)	(a)	(a)
Other manufactures (£ S.A.)	(£4,680)	(£7,659)	(£16,777)	(£18,276)	(£11,129)	(a)	(a)
Tanganyika—							
Manufactured	122	915	1,389	2,765	3,575	3,316	3,805
Uganda—							
Manufactured	(f)	(f)	(f)	1,284	1,220	1,315	1,375
Union of South Africa—							
Packing (£ S.A.)	(£95,175)	(£119,372)	(£98,720)	(£93,059)	(£111,953)	(a)	(a)
Cement products (£ S.A.)	(£53)	(£26,185)	(£21,690)	(£9,266)	(£9,124)	(£15,363)	(a)
Other manufactures (£ S.A.)	(£8,987)	(£55,110)	(£140,419)	(£200,162)	(£57,057)	(£18,473)	(a)
Zanzibar—							
Manufactured	(a)	(a)	198	64	422	121	236
Canada (c)—							
Packing	100	111	79	114	149	184	137
Other manufactures	(£494,032)	(£876,764)	(£896,673)	(£643,344)	(£797,705)	(£1,056,859)	(£1,131,518)
Newfoundland (b)—							
Asbestos and manufactures	(£13,387)	(£23,233)	(£21,103)	(b)	(b)	(b)	(b)
British West Indies—							
Barbados—							
Cement sheets,	(£10,638)	(£18,818)	(£13,040)	(£14,268)	(£17,238)	(£24,155)	(£15,177)
Bermuda—							
Sheets, etc.	(a)	(a)	(£8,228)	(£7,114)	(£2,400)	(£12,527)	(£6,455)
Grenada—							
Manufactured	(£4,072)	(£1,278)	(£4,446)	(d) (£264)	(£829)	(£1,357)	(£1,387)
Jamaica—							
Manufactured	(a)	(£15,279)	(£47,525)	(£35,150)	(£55,789)	(£108,549)	(a)

(a) Information not available.

(b) Years ended March 31 of year following that stated. Included with Canada from April 1, 1949.

(c) Including Newfoundland from April 1, 1949.

(d) Excess of re-exports.

(e) Including Uganda up to 1948 inclusive.

(f) Included with Kenya up to 1948 inclusive.

IMPORTS OF ASBESTOS (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES (Cont.)							
Trinidad and Tobago—							
Cement products ..	964	8,797	2,176	1,730	856	2,051	1,196
Other manufactures ..	143	104	254	174	215	258	456
British Guiana—							
Cement sheets, etc. ..	414	385	704	(a)	(a)	542	(a)
Other manufactures ..	47	32	11	(a)	(a)	255	(a)
Aden—							
Cement sheets	29	38	—	—	—	—	—
Other manufactures ..	(£897)	(£1,227)	—	—	—	—	—
Cyprus—							
Sheets, pipes, etc. ..	89	754	998	711	540	3,680	1,159
Other manufactures ..	(£3,838)	(£3,452)	(£2,313)	(£813)	(£1,691)	(£411)	(£1,854)
Hong Kong (total imports)—							
Unmanufactured ..	} (£9,185)	} (£29,799)	} (£17,261)	} (£71,024)	} (£155,009)	} (£477,201)	} (£244,699)
Manufactures							
India—							
Unmanufactured ..	8,355	3,794	3,644	7,645	10,783	10,925	11,148
Cement products ..	258	1,225	1,041	9,958	6,213	4,391	914
Packing	(£51,372)	(£57,226)	(£74,421)	(£91,540)	(£24,652)	(£32,291)	(£73,062)
Other manufactures ..	(£129,929)	(£138,997)	(£60,146)	(£202,061)	(£88,121)	(£217,788)	(£220,634)
Malaya (c)—							
Sheets	1,780	6,396	12,042	6,429	8,267	12,536	17,209
Other manufactures ..	645	1,412	1,156	1,341	2,402	4,921	5,810
North Borneo—							
Sheets, etc.	(a)	(a)	(a)	(a)	(a)	806	1,213
Pakistan (b)—							
Cement sheets	(a)	(a)	(a)	(a)	(a)	6,766	6,265
Sarawak—							
Sheets	(a)	(a)	138	124	233	224	420
Australia—							
Crude	18,697	14,246	14,857	14,767	29,536	25,289	27,726
Packing (£ Australian) (f)	(£198,699)	(£165,140)	(£343,230)	(£363,820)	(£244,018)	(£197,333)	(£341,079)
New Zealand—							
Unmanufactured ..	1,651	2,295	1,784	1,790	3,785	2,348	4,747
Sheets	(d) 610	(d) 47,491	(d) 467,878	(d) 310,094	(d) 447,426	(d) 994,466	(d) 636,534
Lining and packing (£ N.Z.) ..	(£70,256)	(£96,919)	(a)	(£92,816)	(£90,231)	(£112,264)	(£149,192)
Irish Republic—							
Unmanufactured ..	(a)	(a)	(a)	(a)	(a)	(a)	2,931
Manufactured	1,717	2,036	2,184	6,426	5,763	8,764	6,272
FOREIGN COUNTRIES							
Austria—							
Unmanufactured ..	(a)	833	1,563	1,989	3,441	8,458	6,311
Manufactured	(a)	7	65	105	75	87	115
Belgium-Luxemburg E.U.—							
Unmanufactured ..	} (a)	} (a)	} 17,111	} 14,563	} 21,510	} 32,018	} 32,272
Spun and woven ..							
Paper and board ..							
Cement sheets and tiles..							
Other manufactures ..							
Spun and woven ..			175	160	148	271	513
Paper and board ..			535	749	466	511	367
Cement sheets and tiles..			624	25	128	62	151
Other manufactures ..			173	188	389	801	664
Bulgaria—							
Unmanufactured ..	—	(a)	(a)	(a)	(a)	(a)	(a)
Manufactured	34	(a)	(a)	(a)	(a)	(a)	(a)
Czechoslovakia—							
Unmanufactured ..	886	2,146	(e) 5,501	(a)	(a)	(a)	(a)
Spun and woven ..	2	11	(e) 4	(a)	(a)	(a)	(a)
Paper and board ..	6	45	(e) 304	(a)	(a)	(a)	(a)
Other manufactures ..	30	77	(e) 75	(a)	(a)	(a)	(a)

(a) Information not available.

(b) Years ended March 31 following that stated. Included with India prior to 1948.

(c) Total imports.

(d) Square yards.

(e) January to October only.

(f) Years ended June 30 of that stated.

IMPORTS OF ASBESTOS (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Denmark—							
Unmanufactured ..	3,405	6,865	6,083	4,930	9,828	8,257	11,851
Spun and woven ..	120	106	128	114	107	113	171
Paper and board ..	193	235	335	454	326	502	314
Packing, etc. ..	367	267	219	174	270	58	27
Cement sheets ..	36	30	19	20	5,338	52	48
Finland (b)—							
Unmanufactured ..	190	222	517	548	972	1,132	(a)
Manufactured ..	251	416	287	218	210	587	(a)
France—							
Unmanufactured ..	36,735	18,722	20,369	24,923	33,028	39,815	55,149
Spun and woven ..	672	84	155	88	88	104	126
Paper and board ..	31	468	122	48	142	136	142
Brake linings, etc. ..	86	34	(a)	(a)	(a)	(a)	(a)
Germany (Federal)—							
Unmanufactured ..			3,233	7,527	13,638	24,928	36,574
Spun and woven ..	(a)	(a)	12	153	405	} 679	} 445
Paper and board ..			133	623	348		
Other manufactures ..			2	10	28		
Greece ..	49	62	102	191	175			89	409
Iceland—							
Unmanufactured ..	—	(a)	(a)	34	31	34	(a)
Manufactured ..	230	(a)	(a)	69	124	27	(a)
Italy—							
Unmanufactured ..	(a)	1,916	2,065	2,755	6,166	9,285	9,436
Manufactured ..	(a)	263	366	340	612	1,107	634
Netherlands—							
Unmanufactured ..	2,353	3,492	4,118	2,608	6,825	6,140	8,737
Cement sheets, tiles, etc. ..	4,358	4,910	4,890	13,618	26,343	32,142	19,981
Other manufactures ..	(a)	(a)	1,209	1,336	1,283	1,342	1,675
Norway—							
Unmanufactured ..	1,397	1,908	1,312	2,023	2,634	3,302	2,827
Manufactured ..	679	836	1,048	1,065	745	1,406	1,496
Portugal—							
Unmanufactured ..	2,531	1,268	1,510	2,548	2,286	1,454	2,210
Manufactured ..	62	72	122	48	50	121	98
Spain—							
Unmanufactured ..	4,497	2,467	315	1,168	4,315	4,615	8,685
Manufactured ..	582	237	96	324	253	296	139
Sweden—							
Unmanufactured ..	5,161	8,259	3,563	8,957	10,084	5,197	11,077
Manufactured ..	1,923	1,951	1,923	1,496	1,811	2,146	1,497
Switzerland (including mica)—							
Unmanufactured ..	2,633	2,065	2,062	3,454	4,230	5,908	5,057
Manufactured ..	1,279	1,255	1,473	1,002	1,491	2,157	1,722
Yugoslavia—							
Unmanufactured ..	(a)	(a)	(a)	(a)	3,893	295	1,886
Manufactured ..	(a)	(a)	(a)	(a)	195	142	276
Algeria—							
Unmanufactured ..	21	58	448	488	1,527	1,652	2,932
Manufactured ..	300	166	188	141	153	173	40
Belgian Congo—							
Unmanufactured ..	—	—	(a)	(a)	1,323	(a)	2,939
Egypt—							
Unmanufactured (b) ..	154	155	470	316	854	962	1,740
Paper and board ..	(b) 186	(b) 70	(b) 93	(b) 188	95	183	102
Other manufactures ..	182	(b) 137	(b) 179	(b) 205	366	248	328
Costa Rica—							
Unmanufactured ..	76	73	14	20	(a)	(a)	(a)
Honduras—							
Manufactured ..	434	(a)	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

(b) Total imports.

IMPORTS OF ASBESTOS (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Mexico—							
Unmanufactured ..	3,334	4,315	3,853	3,485	5,343	2,943	5,358
Manufactured	840	750	1,001	1,283	1,780	1,247	1,064
Netherlands West Indies—							
Manufactured	3,140	3,974	5,113	4,497	3,401	(a)	(a)
United States—							
Unmanufactured—							
Crude	12,391	32,100	34,008	41,035	25,919	31,518	34,487
Mill fibre	136,817	145,004	157,954	113,172	157,571	201,137	189,860
Other	257,634	354,003	386,504	305,884	446,128	447,589	409,062
Manufactured	388	771	545	375	3,310	851	452
Argentina—							
Spun and woven ..	898	902	1,100	305	341	1,019	(a)
Paper and board ..	4,803	7,119	7,577	5,825	9,152	18,043	(a)
Brazil (total imports)—							
Unmanufactured ..	3,046	3,130	4,893	4,208	8,301	10,925	10,919
Manufactured	2,054	2,088	1,586	1,587	(a)	3,081	2,360
Chile—							
Manufactured	1,970	2,462	2,412	2,444	2,624	2,481	3,651
Colombia—							
Unmanufactured ..	1,745	(a)	(a)	(a)	(a)	(a)	(a)
Manufactured	446	(a)	(a)	(a)	(a)	(a)	(a)
Peru—							
Unmanufactured ..	(a)	(a)	475	725	798	1,169	1,949
Manufactured	(a)	(a)	321	145	192	252	283
Uruguay	634	666	979	1,518	1,708	1,385	(a)
Venezuela—							
Unmanufactured ..	175	771	905	500	983	865	(a)
Manufactured	20,455	24,251	20,159	20,051	10,439	5,575	(a)
China	562	764	712	(a)	(a)	(a)	(a)
Israel—							
Manufactured	(a)	(a)	(a)	(£38,048)	(£35,670)	(a)	(a)
Japan—							
Unmanufactured ..	(a)	(a)	(a)	1,181	6,584	22,432	13,142
Syria and Lebanon—							
Cement sheets, etc. ..	284	(a)	(a)	(a)	(a)	(a)	(a)
Other manufactures ..	46	(a)	(a)	(a)	(a)	(a)	(a)
Turkey—							
Manufactured	92	169	216	487	1,541	2,119	1,982

(a) Information not available.

BARIUM MINERALS

PRODUCTION OF BARIUM MINERALS* (Long tons)

Producing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Great Britain—							
Barytes, unground ..	68,101	46,327	} 88,228	92,389	73,813	58,234	43,311
Witherite, unground ..	14,376	14,727					
Barytes—							
Ground, bleached ..	2,672	3,370	3,655	19	—	—	—
do. unbleached ..	25,776	30,222	29,881	24,925	22,796	29,185	26,834
Antigua (Leeward Islands)	51	14	—	—	—	—	—
Canada	107,517	114,888	85,488	42,088	68,908	87,601	106,547
Southern Rhodesia ..	171	18	50	480	257	83	267
South West Africa ..	—	—	—	47	—	—	—
Swaziland	(b) 220	(c) 169	(e) 97	(e) 102	(c) 434	(c) 469	(c) 397
Union of South Africa ..	2,289	2,629	1,706	2,209	2,232	2,006	1,691
India	29,091	24,310	23,143	21,118	11,963	10,471	7,501
Palestine	3	(a)	(a)	(a)	(a)	(a)	(a)
Australia	7,589	5,413	3,770	5,464	5,933	6,178	4,944
Irish Republic—							
Barytes, refined	6,130	6,298	3,197	3,597	(e) 2,482	1,393	300
do. unrefined	7,213	6,425	3,727	2,277	(e) 2,263	6,715	1,500
FOREIGN COUNTRIES							
Austria	803	1,912	3,781	8,130	9,959	9,493	5,079
France	34,024	53,118	55,826	29,817	32,822	37,032	28,000
Germany (Federal) ..	(f) 1,968	(f) 10,388	(f) 18,767	178,600	305,985	410,884	340,378
Greece	—	(d) 12,783	18,411	15,359	20,471	29,365	21,162
Italy	31,624	67,473	(e) 64,625	(e) 50,768	(-) 53,566	(e) 75,332	54,382
Portugal	289	1,192	400	420	126	708	611
Spain	12,052	19,504	13,929	7,544	(-) 7,034	(e) 12,252	13,818
Sweden (sales)	497	1,298	1,884	908	49	148	(a)
Yugoslavia (exports) ..	(a)	(a)	(a)	(a)	11,880	9,695	26,391
Algeria	7,320	23,590	13,885	18,570	19,580	20,690	9,690
Egypt	—	164	—	30	—	40	29
Morocco (French) ..	—	—	—	—	4,834	3,205	3,062
Tunis	404	1,466	224	619	25	10	25
Cuba (d)	(a)	(a)	322	(a)	(a)	(a)	(a)
Mexico	(a)	(a)	(a)	(d) 2,758	(d) 2,407	(d) 1,377	(d) 11,090
United States	647,521	789,481	694,501	652,954	620,905	768,454	800,000
Argentina	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Brazil	10,163	13,750	(a)	(a)	(a)	(a)	(a)
Chile	3,693	(a)	2,107	1,437	1,246	1,053	(a)
Peru	7,073	6,456	1,759	6,250	2,983	22,652	(a)
Japan (e)	572	893	3,350	9,686	14,014	16,442	14,006
TOTAL †	1,040,000	1,300,000	1,180,000	1,220,000	1,340,000	1,660,000	1,590,000

* Barytes unless otherwise stated.

† Excluding barytes produced in Czechoslovakia, Norway, U.S.S.R., China and Korea.

(a) Information not available.

(b) Unground.

(c) Ground.

(d) Exports

(e) Revised.

(f) French Zone only.

EXPORTS OF BARIUM MINERALS, ETC.*

(Domestic Produce)

(Long tons)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952	
BRITISH COUNTRIES								
United Kingdom—								
Unground barytes ..	160	93	185	—	(a)	(a)	(a)	
Ground barytes ..	629	1,539	4,718	6,727	466	191	115	
Dioxide ..	183	10	31	44	} 3,221	} 3,251	} 2,254	
Barium compounds, excluding blanc fixe ..	3,704	3,140	3,653	2,381				
Southern Rhodesia—								
Barytes ..	81	143	135	570	177	222	415	
South West Africa—								
Barytes ..	—	—	—	36	—	—	—	
Antigua (Leeward Is.)—								
Barytes ..	51	14	—	—	—	—	—	
Canada—								
Unground ..	75,965	67,300	34,461	35,470	29,867	43,983	75,929	
Ground ..	29,542	55,900	51,063	8,688	33,116	40,829	43,826	
Hong Kong (re-exports)—								
Barytes ..	(a)	(a)	(a)	9	13	—	—	
India—								
Unground barytes ..	—	14,629	14,231	14,535	8,268	5,085	2,306	
Australia—								
Unground barytes ..	1,143	629	326	952	190	119	223	
Ground barytes ..	482	1,889	1,280	1,046	2,334	1,408	1,209	
Sulphate (b) ..	1	68	22	1	3	(f) 2	(f) 3	
Irish Republic—								
Unground barytes ..	732	80	594	(a)	(a)	(a)	5,035	
Ground barytes ..	6,473	3,205	2,504	2,277	2,241	766	(a)	
FOREIGN COUNTRIES								
Belgium-Luxemburg E.U.—								
Barytes and witherite ..	(a)	(a)	114	252	127	5	25	
Carbonate ..	(a)	(a)	(a)	(a)	(a)	523	261	
Chloride ..	(a)	(a)	717	512	140	1,338	100	
Sulphate ..	(a)	(a)	(a)	(a)	1,166	1,545	543	
Sulphide ..	(a)	(a)	17	71	15	10	—	
Czechoslovakia—								
Barytes ..	—	35	(d) 52	(a)	(a)	(a)	(a)	
Sulphate ..	35	50	(d) 77	(a)	(a)	(a)	(a)	
France—								
Barytes (c) ..	139	1,665	1,306	646	933	2,616	913	
Precipitated carbonate ..	21	1,459	1,667	1,561	2,286	1,965	1,187	
Barium compounds ..	381	345	847	1,722	1,235	1,276	506	
Germany (Federal)—								
Barytes and celestite ..	} (a)	} (a)	18,156	23,527	109,748	} 130,752	} 70,798	
Witherite and strontianite ..			185	20	18			
Carbonate ..			205	645	3,934			7,694
Chloride ..			225	1,405	2,668			3,642
Nitrate ..			45	28	37			(e) 199
Sulphate ..	234	2,174	7,480	(e) 6,924				
Greece—								
Barytes ..	—	12,783	18,349	23,396	19,793	25,728	4,805	
Italy—								
Barytes ..	(a)	607	1,296	3,158	11,145	36,824	16,722	
Witherite ..	(a)	(a)	(a)	(a)	(a)	140	110	
Carbonate, precipitated ..	(a)	(a)	(a)	(a)	(a)	148	212	
Sulphate ..	(a)	10,243	8,886	11,651	1,097	823	1	
Netherlands—								
Barytes ..	—	16	132	148	—	—	—	

* For Lithopone, see "Zinc," pages 329-331.

(b) Years ended June 30 of that stated.

(d) January to October only.

(a) Information not available.

(c) Including precipitated sulphate.

(e) January to September only.

(f) Calendar year.

EXPORTS OF BARIUM MINERALS, ETC. (Cont.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Sweden—							
Barytes and witherite ..	—	689	10	5	—	—	—
Yugoslavia—							
Unground barytes ..	(a)	(a)	(a)	(a)	11,865	6,860	23,717
Ground barytes ..	(a)	(a)	(a)	(a)	15	2,835	2,674
Algeria—							
Barytes	4,480	17,245	13,956	11,037	18,099	10,124	8,671
Morocco (French)—							
Barytes	—	—	—	—	591	811	1,063
Tunis—							
Barytes	(a)	(a)	37	(a)	(a)	(a)	(a)
Cuba—							
Barytes	(a)	(a)	322	—	—	—	(a)
Mexico—							
Barytes	(a)	—	—	2,758	2,407	1,377	11,090

(a) Information not available.

IMPORTS OF BARIUM MINERALS, ETC.*

(Less Re-exports)

(Long tons)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Unground barytes ..	19,619	13,224	10,131	14,973	17,390	38,673	11,745
Ground barytes ..	15,054	17,673	9,934	14,385	17,493	19,616	11,150
Barium compounds, excluding blanc fixe ..	1	6	1,340	573	279	1,179	762
Union of South Africa—							
Barytes ..	604	664	601	868	254	788	(a)
Carbonate and dioxide ..	311	251	95	195	127	124	(a)
Canada—							
Barytes ..	1,381	1,551	1,128	838	1,865	954	1,290
Blanc fixe ..	355	274	624	747	644	331	189
British West Indies—							
Trinidad and Tobago—							
Ground barytes ..	9,421	16,642	22,898	21,573	20,167	24,687	19,914
Hong Kong (total imports)—							
Barytes ..	(a)	(a)	(a)	176	167	147	—
India—							
Barytes ..	9	70	11	—	6	101	38
Pakistan (d)—							
Barytes ..	(a)	(a)	(a)	(a)	(a)	1,818	3,519
Australia (b)—							
Barytes ..	—	—	—	3	57	43	49
Carbonate ..	180	51	299	55	326	328	192
Chloride ..	49	100	104	84	128	115	168
Sulphate ..	154	169	68	27	213	747	563
Other compounds ..	3	25	19	12	21	50	94
New Zealand—							
Barytes ..	1,551	505	1,474	668	1,207	999	—
Irish Republic—							
Ground barytes, including blanc fixe ..	4	6	26	20	235	675	(a)
FOREIGN COUNTRIES							
Austria—							
Barytes ..	(a)	1,316	1,769	5,490	6,725	9,817	3,063
Carbonate ..	(a)	25	90	180	373	400	570
Chloride ..	(a)	(a)	(a)	122	64	131	—
Belgium-Luxemburg E.U.—							
Barytes and witherite ..	(a)	(a)	33,836	3,663	21,314	29,444	7,236
Carbonate ..	(a)	(a)	1,458	738	2,334	3,188	1,515
Chloride ..	(a)	(a)	186	347	842	560	544
Sulphate ..	(a)	(a)	(a)	6,102	6,750	6,700	5,862
Sulphide ..	(a)	(a)	11	51	1	5	5
Czechoslovakia—							
Unground barytes ..	—	1,823	(c) 1,079	(a)	(a)	(a)	(a)
Ground barytes ..	—	10	(c) —	(a)	(a)	(a)	(a)
Carbonate ..	2	357	(c) 500	(a)	(a)	(a)	(a)
Chloride ..	—	416	(c) 397	(a)	(a)	(a)	(a)
Sulphate ..	(a)	235	(c) 246	(a)	(a)	(a)	(a)
Denmark—							
Witherite and carbonate ..	135	53	172	73	125	299	49
Chloride ..	190	73	54	113	105	190	40
Sulphate ..	466	1,050	1,318	716	915	1,937	52
Finland (total imports)—							
Barytes ..	396	2	181	191	233	642	(a)
Chloride ..	63	128	20	—	5	25	(a)
Carbonate ..	76	25	23	—	15	59	(a)
Sulphate ..	43	35	79	230	135	247	(a)

* For Lithopone, see "Zinc," pages 332-335.

(a) Information not available.

(b) Years ended June 30 of that stated up to 1948 inclusive.

(c) January to October only.

(d) Years ended March 31 of that following. Included with India prior to 1948.

IMPORTS OF BARIUM MINERALS, ETC. (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
France—							
Barytes	1,197	8,015	12,272	21,099	41,567	37,399	24,416
Witherite	349	93	(a)	(a)	(a)	675	494
Chloride	434	45	—	—	5	109	7
Hydrate	2	11	—	15	27	10	5
Nitrate	4	—	(a)	(a)	(a)	(a)	(a)
Precipitated carbonate ..	806	850	104	—	2	—	47
Sulphate	328	552	238	210	339	340	235
Sulphide	46	50	(a)	(a)	(a)	41	—
Germany (Federal)—							
Barytes and celestine ..	(a)	(a)	—	—	220	} 1,254	5
Witherite and strontianite	(a)	(a)	—	2	—		
Italy—							
Barytes	(a)	—	2	—	13	27	21
Witherite	(a)	(a)	(a)	(a)	(a)	501	493
Carbonate, precipitated	(a)	(a)	(a)	(a)	(a)	197	1,028
Sulphate, precipitated ..	(a)	10	21	1	33	234	354
Netherlands—							
Barytes	1,610	14,024	9,202	10,500	26,236	20,384	15,668
Carbonate	(a)	(a)	592	568	700	1,044	534
Sulphate	(a)	(a)	2,711	2,230	3,752	5,388	3,120
Blanc fixe	746	1,117	653	596	615	660	1,150
Poland—							
Carbonate	5	(a)	(a)	(a)	(a)	(a)	(a)
Portugal—							
Barytes	—	—	—	—	—	—	—
Carbonate	5	11	3	—	—	2	16
Chloride	75	46	27	30	77	67	86
Sulphate	83	79	32	49	30	76	130
Sweden—							
Barytes and witherite ..	968	2,557	1,883	812	1,966	2,705	1,232
Sulphate	(a)	(a)	(a)	927	903	1,099	867
Algeria—							
Barytes (incl. precipitate)	139	69	86	1	357	75	60
Witherite (incl. precipitate)	—	—	15	25	45	35	43
Mexico—							
Barytes	31	473	123	75	2,864	1,778	4,241
Witherite	111	28	(a)	(a)	(a)	(a)	(a)
Chloride	24	24	(a)	(a)	(a)	(a)	(a)
United States—							
Unground barytes	39,877	47,520	47,504	23,373	52,126	47,103	96,355
Ground barytes	—	—	—	188	605	143	5,911
Witherite	1,008	10	2,205	1,886	1,865	1,800	4,620
Sulphate	—	(a)	(a)	1	47	11	29
Barium compounds	—	64	135	85	419	2,079	1,173
Argentina—							
Barytes	1,099	(a)	(a)	(a)	(a)	(a)	(a)
Sulphate	623	(a)	(a)	(a)	(a)	(a)	(a)
Barium compounds	829	(a)	(a)	(a)	(a)	(a)	(a)
Brazil—							
Chloride	121	52	26	110	(a)	340	115
Sulphate	579	442	250	488	(a)	882	536
Chile—							
Sulphate	3	} (a)	(a)	(a)	(a)	(a)	(a)
Carbonate	29						
Chloride	103						
Oxides	16						
Colombia—							
Chloride	4	(a)	(a)	(a)	(a)	(a)	(a)
Sulphate	1,613	(a)	(a)	594	103	(a)	(a)

(a) Information not available.

IMPORTS OF BARIUM MINERALS, ETC. (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Peru—							
Barium compounds ..	33	(a)	90	84	535	505	44
Uruguay—							
Oxides	(a)	(a)	23	50	44	77	(a)
Sulphate	(a)	(a)	432	250	681	639	(a)
Venezuela—							
Barytes	23,919	43,987	25,218	11,718	(a)	(a)	(a)
Sulphate	3	5	488	30	(a)	(a)	(a)
Japan—							
Barytes	—	—	—	—	3	—	1,481
Turkey—							
Barytes	98	37	20	32	28	50	27
Sulphate	—	—	25	8	(a)	(a)	(a)
Barium compounds ..	8	36	70	48	72	71	102

(a) Information not available.

BERYL
PRODUCTION OF BERYL
(Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Kenya	—	—	—	—	—	—	1
Northern Rhodesia ..	—	—	—	—	5	4	8
Southern Rhodesia ..	—	—	—	—	832	991	1,060
South West Africa ..	5	51	88	235	648	741	529
Tanganyika	—	—	2	1	—	—	—
Uganda	—	23	44	16	70	2	3
Union of South Africa ..	—	—	—	220	830	583	369
India	(a)	(a)	(a)	(a)	(a)	211	(a)
Australia	23	53	55	35	23	112	87
FOREIGN COUNTRIES							
Portugal	(a)	(a)	(a)	3	51	100	92
Madagascar	(a)	1	9	27	478	522	389
Morocco (French)	—	—	50	157	55	83	127
Mozambique	22	80	16	133	260	226	(a)
United States (shipments)	90	130	89	424	499	432	454
Argentina	128	10	(a)	(a)	(a)	(a)	(a)
Brazil	1,274	1,011	1,422	2,239	2,166	1,713	(b) 2,440

(a) Information not available.

(b) Exports.

EXPORTS OF BERYL
(Domestic Produce)
(Long tons)

Exporting Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Southern Rhodesia ..	—	—	—	22	743	1,244	793
South West Africa ..	—	53	57	165	360	395	588
Uganda	—	12	39	33	16	—	—
Union of South Africa ..	—	—	—	279	808	801	—
India	(a)	(a)	(a)	(a)	(a)	351	247
FOREIGN COUNTRIES							
Portugal	(a)	(a)	(a)	(a)	25	115	75
Madagascar	(a)	(a)	6	9	359	465	304
Morocco (French)	—	—	(a)	(a)	118	87	125
Mozambique (b)	—	—	49	96	116	155	275
Brazil	1,273	1,011	1,755	3,030	2,584	1,508	2,440

(a) Information not available.

(b) Imports into the United States from Mozambique.

IMPORTS OF BERYL*
(Less Re-exports)
(Long tons)

Importing Country	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES							
United States	889	685	1,194	3,403	4,181	3,854	5,337

* Imports of Beryl are not recorded separately in the trade returns of other countries.

BISMUTH

PRODUCTION OF BISMUTH ORE, ETC.*

(Cwt.)

Producing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Southern Rhodesia— Bismuth	—	—	2	—	—	—	—
South West Africa— Ore	—	—	—	19	286	4	—
Uganda— Ore (<i>Bi content</i>) ..	—	—	78	148	57	57	55
Union of South Africa— Ore (<i>Bi content</i>) ..	14	—	9	119	142	60	30
Canada— Metal and content of bullion exported ..	2,147	2,539	2,145	919	1,711	2,056	1,609
Australia— Concentrates (<i>Bi content</i>)	22	86	80	13	18	23	28
FOREIGN COUNTRIES							
France— Mispickel (<i>Bi content</i>) ..	—	1,080	1,100	1,161	1,535	1,772	(a)
Spain— Ore (<i>Bi content</i>) ..	421	214	153	294	185	222	155
Sweden— Metal	245	216	—	—	—	—	(a)
Yugoslavia— Bismuth	(a)	841	1,004	750	1,191	1,728	1,943
Belgian Congo— Ore (<i>Bi content</i>) ..	(a)	16	9	11	13	4	9
Mozambique— Ore (<i>Bi content</i>) ..	—	—	—	8	23	14	(a)
Mexico— Ore (<i>Bi content</i>) ..	498	5,021	3,161	6,089	5,192	6,656	7,993
Bolivia (exports)— Ore, etc. (<i>Bi content</i>) ..	549	1,751	692	160	480	1,358	314
Peru— Lead-tin-antimony bars (<i>Bi content</i>)	1,765	60	930	—	—	—	(a)
Metal	4,366	4,602	4,052	4,246	4,465	5,170	6,300
Anode residues (<i>Bi content</i>) ..	—	—	—	—	2,841	4,396	(a)
Korea (South)— Bismuth	(a)	(a)	2,047	3,405	(a)	246	1,108

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

(a) Information not available.

EXPORTS OF BISMUTH, ETC.

(Domestic Produce)

(Cwt.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Bismuth	413	841	2,208	3,553	3,830	3,572	3,634
Bismuth salts	(a)	(a)	(a)	(a)	3,064	2,326	2,437
South West Africa—							
Ore	—	—	—	—	230	4	—
Uganda—							
Ore (<i>Bi content</i>) ..	—	—	53	97	72	33	21
Union of South Africa—							
Bismuth	15	—	9	165	387	107	—
Canada—							
Metal	1,714	1,089	1,411	1,589	1,018	800	300
Hong Kong (re-exports)—							
Ore	40	215	—	—	—	—	—
Australia—							
Concentrates	(a)	(a)	80	80	20	—	109
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Bismuth	(a)	(a)	571	472	216	79	20
Salts	(a)	(a)	—	708	—	40	—
France—							
Bismuth salts	45	63	(a)	(a)	(a)	18	9
Germany (Federal)—							
Bismuth salts	(a)	(a)	2	4	756	(b) 681	(a)
Yugoslavia—							
Bismuth	(a)	(a)	(a)	(a)	740	1,352	1,838
Mexico—							
Bars, etc. (<i>Bi content</i>) ..	1,499	3,871	(a)	2,332	3,618	3,643	6,825
United States—							
Matte, residues, etc. ..	839	(a)	(a)	(a)	70	106	282
Metal and alloys	1,367	2,150	3,143	1,704	1,779	1,312	2,186
Bolivia—							
Ore, etc. (<i>Bi content</i>) ..	549	1,751	692	160	480	1,358	314
Chile—							
Bismuth	—	(a)	(a)	(a)	(a)	(a)	(a)
Salts	97	87	29	(a)	(a)	(a)	(a)
Peru—							
Bars, etc. (<i>Bi content</i>) ..	6,334	4,311	5,334	4,376	4,495	5,067	6,122

(a) Information not available.

(b) January to September only.

IMPORTS OF BISMUTH, ETC.
(Less Re-exports)
(Cwt.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Bismuth	3,171	2,407	3,938	3,227	3,383	4,977	4,561
Canada—							
Bismuth	—	36	(c) 1,489	(c) 2,435	—	5	22
Bismuth salts	(£3,001)	(£1,730)	(£3,497)	(£6,411)	(£7,623)	(£8,261)	(£9,814)
Hong Kong (total imports)—							
Ore	40	215	—	—	—	—	—
Australia—							
Bismuth	8	314	463	263	125	188	295
Bismuth salts	174	32	120	124	43	48	61
New Zealand—							
Bismuth and its salts ..	(£NZ 2,785)	(£NZ 1,386)	—	92	120	66	230
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Bismuth	(a)	(a)	20	—	20	39	39
Bismuth salts	(a)	(a)	511	157	276	128	138
France—							
Bismuth	2,057	1,728	(a)	(a)	(a)	2,411	3,027
Bismuth salts	463	30	(a)	(a)	(a)	4	26
Germany (Federal)—							
Bismuth salts	(a)	(a)	(a)	(a)	4	(b) 2	(a)
Spain—							
Bismuth	30	—	—	—	—	79	(a)
Bismuth salts	186	16	59	—	—	2	(a)
Algeria—							
Bismuth salts	28	14	14	8	—	2	6
Mexico—							
Bismuth	5	2	(a)	(a)	(a)	(a)	(a)
Bismuth salts	71	181	24	4,096	105	(a)	73
United States—							
Bismuth	3,771	2,773	2,677	4,838	6,979	4,589	6,324
Argentina—							
Bismuth and its salts	57	(a)	(a)	(a)	(a)	(a)	(a)
Chile—							
Ore	—	(a)	(a)	(a)	(a)	(a)	(a)
Bismuth	41	19	18	(a)	(a)	(a)	(a)
Bismuth salts	52	(a)	(a)	(a)	(a)	(a)	(a)
Colombia—							
Bismuth salts	25	(a)	(a)	(a)	(a)	(a)	(a)
Peru—							
Bismuth salts	27	(a)	146	52	75	87	64
Venezuela							
Bismuth salts	99	(a)	39	69	(a)	(a)	(a)
Turkey—							
Bismuth	1	4	7	1	1	2	32
Bismuth salts	22	18	154	77	148	124	203

(a) Information not available.

(b) January to September only.

(c) Bismuth-bearing ores according to the Department of Mines.

BORATES

PRODUCTION OF CRUDE BORATES

(Long tons)

Producing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES							
Italy— Boric acid	4,255	4,907	4,796	4,792	4,713	4,542	4,283
United States— Borates	384,544	448,156	402,618	417,493	578,335	770,354	521,275
Argentina— Borate of calcium ..	5,167	7,000	(a)	(a)	(a)	(a)	(a)
Chile— Borate of calcium ..	1,454	469	(a)	(a)	(a)	(a)	(a)
Peru— Borax	—	—	—	—	—	5	(a)
Iran— Borate of calcium ..	(a)	(a)	(a)	(d) 300	(d) 300	(a)	(a)
Tibet (b)— Borax	(c) 340	(c) 23	(c) 39	(c) 88	(a)	(a)	(a)
Turkey— Borates	2,180	3,556	5,238	6,982	9,628	11,825	13,513

Borates are also produced in the U.S.S.R. and Germany.

(a) Information not available.

(b) Imports into India from Tibet.

(c) Years ended March 31 following that stated.

(d) Estimated.

EXPORTS OF BORATES

(Domestic Produce)

(Long tons)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom							
Borax	1,606	172	797	919	1,742	1,455	953
Boric acid	574	118	90	246	491	236	(a)
Hong Kong (re-exports)—							
Borax	483	383	513	873	3,315	476	170
India—							
Borax	—	—	—	2	—	9	7
FOREIGN COUNTRIES							
Austria—							
Boric acid	(a)	(a)	(a)	(a)	59	12	—
Perborate of sodium ..	(a)	(a)	(a)	131	414	628	600
Belgium-Luxemburg E.U.—							
Borates and perborates	(a)	(a)	94	—	30	3	2
Borax	(a)	(a)	298	66	478	1,047	246
France—							
Borax	} 683	1,070	589	1,424	1,427	} 634	} 474
Boric acid							
Perborate of sodium ..							
Germany (Federal)—							
Borates	} (a)	(a)	15	12	326	959	} 739
Boric acid							
Italy—							
Boric acid, crude ..	(a)	585	361	471	117	27	185
do. refined	(a)	961	418	803	427	324	1,007
Borates	(a)	199	381	847	145	181	508
Perborates	(a)	7	—	151	665	1,030	726
Netherlands—							
Borax	49	63	91	20	18	41	31
Sweden—							
Borax and boric acid ..	10	8	8	—	1	1	1
Switzerland—							
Borax	41	220	21	1	—	338	44
United States—							
Borates and borax ..	47,592	76,550	63,339	} 97,760	127,304	190,576	92,225
Boric acid	6,468	8,540	6,988				
Argentina—							
Borates of calcium and sodium	478	(a)	(a)	(a)	(a)	(a)	(a)
Tibet (b)—							
Borax	(c) 340	(c) 23	(c) 39	(c) 88	(a)	(a)	(a)
Turkey—							
Borates	3,000	6,265	5,567	8,377	9,991	12,354	11,969

(a) Information not available.

(b) Imports into India from Tibet.

(c) Years ended March 31 following that stated.

IMPORTS OF BORATES
(Less Re-exports)
(Long tons)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Borates	9,431	14,919	15,224	12,846	14,981	18,739	13,309
Borax	4,007	9,646	12,414	10,890	14,028	22,005	12,109
Boric acid	224	2,716	3,133	3,141	4,722	5,804	2,971
Anglo-Egyptian Sudan—							
Borax	(a)	1	32	3	—	—	(a)
Kenya—							
Borax, refined	(a)	(a)	(a)	13	11	15	88
Southern Rhodesia—							
Borax	32	93	89	113	86	18	74
Boric acid	2	3	—	7	4	4	3
Tanganyika—							
Borax, refined	(a)	(a)	15	13	12	8	5
Uganda—							
Borax, refined	(a)	(a)	(a)	3	3	2	1
Union of South Africa—							
Borax	638	915	634	590	559	524	(a)
Boric acid	173	366	134	259	163	248	(a)
Canada—							
Borax	6,479	8,442	6,161	6,666	7,966	8,132	7,443
Boric acid	1,093	1,394	1,429	1,832	1,616	2,242	1,562
Aden—							
Borax	6	6	—	—	—	—	—
Hong Kong (total imports)—							
Borax	1,104	965	770	2,509	5,530	971	1,060
India—							
Borax	(b) 2,168	7,384	3,114	836	2,284	7,422	491
Pakistan (c)—							
Borax	(a)	(a)	(a)	(a)	(a)	248	261
Australia—							
Borates, crude (d)	42	306	120	33	—	100	58
Boron salts	1,227	2,427	1,388	1,456	1,834	3,447	2,253
Boric acid (d)	470	588	1,228	800	675	1,209	1,194
New Zealand—							
Borax	29	93	49	50	13	10	18
do. fertilizer	(a)	(a)	(a)	(a)	496	380	(a)
Boric acid	11	36	38	103	80	147	141
Irish Republic—							
Borax	206	136	300	553	989	553	775
Boric acid	108	112	92	116	136	118	71
FOREIGN COUNTRIES							
Austria—							
Borax, crude	(a)	197	544	1,276	1,603	2,686	1,871
do. refined	(a)	1	3	2	1	3	—
Boric acid	(a)	1	—	1	—	—	—
Perborate of sodium	(a)	(a)	(a)	40	3	80	—
Belgium-Luxemburg E.U.—							
Borates and perborates	(a)	(a)	(a)	920	1,194	1,886	568
Borax	(a)	(a)	1,100	923	2,462	2,171	1,446
Boric acid	(a)	(a)	190	239	289	252	217
Bulgaria—							
Borax and boric acid	77	(a)	(a)	(a)	(a)	(a)	(a)
Czechoslovakia—							
Borax	352	227	(c) 1,303	(a)	(a)	(a)	(a)
Boric acid	107	315	(c) 188	(a)	(a)	(a)	(a)

(a) Information not available.

(c) January to October only.

(e) Years ended March 31 of that following. Included with India prior to 1948.

(b) Includes trade by land as recorded.

(d) Years ended June 30 of that stated.

IMPORTS OF BORATES (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Denmark—							
Borax	152	70	94	109	11	78	134
Borates and perborates ..	305	478	386	876	864	1,418	854
Boric acid	259	145	20	67	185	84	50
Finland (total imports)—							
Borax	344	293	302	85	566	415	(a)
Boric acid	57	16	28	33	60	59	(a)
France—							
Boron minerals	(a)	(a)	(a)	(a)	(a)	21,999	11,017
Borates	3,878	7,232	—	—	1,368	333	221
Borax	3,279	984	15	2,460	2,705	2,094	2,655
Borate of manganese	6	—	—	—	—	—	—
Boric acid	840	285	49	109	289	226	143
Germany (Federal)—							
Boron minerals	(a)	(a)	890	8,369	22,302	23,013	18,757
Borates	}	(a)	120	2,135	2,337	11,141	}
Boric acid							
Greece—							
Borax	148	33	114	162	71	44	—
Italy—							
Boron mineral	(a)	(a)	(a)	(a)	(b) 147	1,962	1,117
Borates	(a)	(a)	—	16	1,277	3,322	3,109
Boric acid	(a)	(a)	(a)	(a)	(a)	178	365
Netherlands—							
Borax	2,164	4,519	2,447	5,047	6,461	8,270	4,502
Boric acid	(a)	(a)	237	504	236	554	393
Perborates	(a)	(a)	—	128	310	(a)	632
Norway—							
Borax	128	165	243	385	449	698	365
Boric acid	83	84	127	49	154	243	292
Portugal—							
Borates	438	846	317	574	287	295	869
Boric acid	141	170	40	143	63	90	166
Spain—							
Borates	11	5	59	99	307	238	(a)
Boric acid	307	83	25	12	6	—	(a)
Sweden—							
Borax	1,172	2,024	1,164	1,267	2,148	3,027	2,099
Boric acid	474	412	72	311	472	524	376
Perborates	(a)	(a)	(a)	1,176	1,545	2,125	831
Switzerland—							
Borax	4,243	1,834	1,583	1,144	3,453	6,380	275
Yugoslavia—							
Borax	(a)	(a)	(a)	(a)	278	333	563
Algeria—							
Borax and boric acid	54	19	14	19	39	37	22
Egypt—							
Borax	111	21	284	167	208	407	253
Boric acid	24	5	44	23	15	9	39
Mozambique—							
Borax	2	4	4	3	1	2	(a)
Boric acid	6	5	1	—	1	1	(a)
Tunis—							
Borax	9	1	16	(a)	(a)	(a)	(a)
Boric acid	2	28	2	(a)	(a)	(a)	(a)
Mexico—							
Borax	2,095	1,538	(a)	(a)	(a)	(a)	(a)
Boric acid	236	181	(a)	(a)	(a)	(a)	(a)
Argentina—							
Borax	5	(a)	(a)	(a)	(a)	(a)	(a)
Boric acid	2	(a)	(a)	(a)	(a)	(a)	(a)
Brazil (total imports)—							
Boron minerals	1,160	2,125	1,403	1,569	(a)	648	883
Borates	58	92	10	91	(a)	3,016	1,406
Boric acid	91	286	114	222	(a)	421	249

(a) Information not available.

(b) July 15 to December 31 only.

IMPORTS OF BORATES (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Chile—							
Borates	28	(a)	(a)	(a)	(a)	(a)	(a)
Boric acid	3	(a)	(a)	(a)	(a)	(a)	(a)
Colombia—							
Borates	99	(a)	(a)	(a)	(a)	(a)	(a)
Perborate of sodium	8	(a)	(a)	551	350	(a)	(a)
Boric acid	25	(a)	(a)	(a)	(a)	(a)	(a)
Cuba—							
Borax	(a)	(a)	94	96	74	104	(a)
Boric acid	(a)	(a)	763	220	225	313	(a)
Peru—							
Borax	142	(a)	123	208	117	233	125
Boric acid	28	(a)	32	30	18	22	7
Uruguay—							
Borate of calcium	(a)	(a)	273	79	163	301	(a)
Venezuela—							
Borax	8	(a)	23	38	75	51	(a)
Boric acid	22	32	46	40	(a)	(a)	(a)
Israel—							
Borax	(a)	(a)	(a)	—	73	(a)	(a)
Japan (total imports)—							
Borax	—	2,917	3,638	2,020	2,269	13,967	2,009
Turkey—							
Borax	12	393	143	118	144	173	181
Boric acid	9	1	5	—	—	29	19

(a) Information not available.

BROMINE
PRODUCTION OF BROMINE
(lb. avdp.)

Producing Country	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES							
France	(b)1,475,000	(b)3,014,000	(b)2,200,000	(b)1,933,000	2,337,000	2,297,000	(a)
Italy	110,500	388,000	(a)	516,790	863,846	(a)	(a)
United States (c)	42,780,925	78,177,650	76,047,551	88,725,709	98,502,300	129,563,073	156,201,577
Israel (c)	108,000	585,000	—	—	—	—	—
Japan	873,000	185,000	79,000	212,000	265,000	450,000	(a)

Bromine is also produced in the United Kingdom from sea-water.

(a) Information not available.

(b) Sales.

(c) Includes bromine content of compounds.

EXPORTS OF BROMINE, ETC.

(Domestic Produce)

(lb. avdp.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Bromine	31,400	8,700	6,500	7,700	9,400	15,700	5,200
Bromides	352,500	276,300	179,900	75,700	131,200	699,200	441,500
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Bromine	(a)	(a)	(a)	(a)	6,614	—	—
Bromides	(a)	(a)	165,347	2,205	660	—	—
France—							
Bromine	380,500	722,900	(a)	(a)	(a)	561,517	251,768
Bromides	177,300	851,000	300,490	542,337	346,346	822,765	375,888
Germany (Federal)—							
Bromine	(a)	(a)	233,470	57,541	459,223	(b) 459,443	(a)
Bromides	(a)	(a)	11,244	127,868	1,030,661	789,255	185,850
Italy—							
Bromides	—	—	419	4,674	198	61,289	220
Spain—							
Bromine	—	—	—	—	—	343	(a)
Bromides	—	77	6	1,167	—	2,220	(a)
Sweden—							
Bromine	—	—	—	—	—	4,409	(a)
United States—							
Bromine and compounds	2,060,286	1,792,269	1,054,523	925,639	869,816	2,587,421	2,789,749
Israel—							
Bromine	127,200	397,714	122,797	—	—	—	—
Bromides	92,000	20,503	5,512	—	—	—	—

(a) Information not available.

(b) January to September only.

IMPORTS OF BROMINE, ETC.
(Less Re-exports)
(lb. avdp.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Bromine	181,000	746,800	312,600	244,300	(b) 400	1,120,300	121,200
Bromides	214,400	(b) 6,000	(b) 20,700	(b) 12,800	11,100	897,100	20,900
Union of South Africa—							
Bromine	215	344	454	425	335	609	(a)
Canada—							
Bromine	16,786	8,742	20,720	16,594	18,231	26,302	7,406
Bromides	57,100	54,250	41,884	58,055	72,961	45,560	38,280
Australia (years ended June 30)—							
Bromine (£ Aust.) ..	(£134)	(£931)	(£450)	(£6,548)	(£269)	(£3,251)	(£75)
Bromates and bromides ..	93,556	136,052	225,578	151,762	(d) 312,553	(d) 780,807	(d) 303,986
New Zealand—							
Bromide (£N.Z.) ..	(a)	(a)	(a)	(a)	(£44)	(£106)	(£61)
Bromide of soda ..	(a)	(a)	(a)	(a)	13,888	13,440	38,280
Bromates and bromide of potash	(a)	(a)	(a)	(a)	16,016	22,624	(a)
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Bromine	(a)	(a)	(a)	17,637	4,409	41,888	19,842
Bromides	(a)	(a)	(a)	(a)	238,099	282,240	242,511
Czechoslovakia—							
Bromine	—	20,503	(c) 25,133	(a)	(a)	(a)	(a)
Denmark—							
Bromide of potash ..	(a)	(a)	(a)	(a)	26,912	9,480	(a)
Bromide of soda ..	(a)	(a)	(a)	(a)	21,826	23,149	(a)
Other bromides ..	(a)	(a)	(a)	(a)	45,415	12,125	(a)
France—							
Bromides	—	220	—	1,102	—	2,646	441
Ethyl bromide, etc. ..	14,771	—	(a)	(a)	(a)	(a)	(a)
Germany—							
Bromides	—	—	—	—	2,425	—	6,834
Italy—							
Bromine	(a)	—	2	7	271,633	325,182	219,360
Bromides	(a)	117	2,269	24,317	61,555	166,890	4,189
Netherlands—							
Bromine	(a)	(a)	(a)	(a)	4,409	55,116	112,436
Norway—							
Bromine	531	174	1,274	1,060	1,041	1,210	1,362
Portugal—							
Bromine	408	328	644	1,382	922	974	1,045
Bromide of soda ..	1,462	1,863	448	1,861	448	919	1,005
Bromide of potash ..	1,127	1,887	1,803	2,738	3,175	2,857	2,493
Bromide of ammonium ..	344	157	375	952	154	476	628
Spain—							
Bromine	3,948	4,969	—	—	—	—	(a)
Bromides	13,135	13,803	22,406	35,111	50,023	6,504	(a)
Sweden—							
Bromine	(a)	(a)	(a)	3,042	6,614	30,865	10,134
Algeria—							
Bromine	—	—	661	220	—	220	—
Bromides	21,605	25,133	441	1,102	1,323	1,764	1,764
Cuba—							
Bromine	(a)	(a)	25,481	190	123	53	(a)
Mexico—							
Bromine	1,188	2,000	(a)	(a)	(a)	(a)	(a)
Bromides of potash and soda	12,548	9,224	17,952	7,485	29,269	74,816	26,464
United States—							
Bromine and compounds	236	131	102	87	96	2,624	2,387
Argentina—							
Bromine and bromides ..	23,395	(a)	(a)	(a)	(a)	(a)	(a)

(a) Information not available. (b) Excess of re-exports. (c) January to October only. (d) Calendar year.

IMPORTS OF BROMINE, ETC. (Cont.)

Producing Country	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Chile—							
Bromine	666	(a)	(a)	(a)	(a)	(a)	(a)
Bromide of strontium ..	15	(a)	(a)	(a)	(a)	(a)	(a)
Colombia—							
Bromine	176	(a)	(a)	(a)	(a)	(a)	(a)
Bromides	6,942	(a)	(a)	(a)	(a)	(a)	(a)
Peru—							
Bromine	216	243	489	454	(a)	600	485
Iron—							
Bromine	—	90	26	2	(a)	(a)	(a)
Bromides	5,569	2,545	(a)	(a)	(a)	(a)	(a)
Philippine Republic—							
Bromides	9,040	(a)	(a)	(a)	(a)	(a)	(a)
Turkey—							
Bromine	84	730	423	639	225	567	284
Bromides	1,217	6,108	6,944	13,436	9,061	19,293	18,902

(a) Information not available.

CADMIUM

PRODUCTION OF CADMIUM

(lb. avdp.)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom	268,800	234,662	255,226	226,240	262,125	326,278	346,752
South West Africa (b) ..	(a)	(a)	1,140,000	1,662,000	1,344,000	1,434,000	1,112,000
Canada	802,648	718,534	766,090	846,541	848,406	1,326,920	1,004,623
Australia	511,280	460,835	646,733	581,280	659,500	519,700	645,900
FOREIGN COUNTRIES							
Belgium	157,000	322,000	661,000	794,000	805,000	805,000	1,213,000
France	103,600	94,800	103,600	128,000	154,300	185,400	194,708
Germany	(c) 2,200	(c) 2,700	(c) 7,700	(c) 11,000	—	—	—
Italy	55,000	84,000	104,000	161,616	166,151	444,919	290,450
Norway	61,700	110,200	136,700	157,400	173,500	221,035	162,900
Poland	256,000	(d) 157,000	(a)	(a)	(a)	(a)	(a)
Spain	(a)	(a)	11,834	11,279	9,586	8,600	12,070
Belgian Congo	36,533	57,408	39,700	55 100	65,407	52,900	45,208
Mexico (e)	1,581,129	1,717,125	1,997,280	1,808,824	1,474,251	1,970,476	1,618,391
United States (f)—							
Metal	6,200,398	8,007,287	7,582,961	8,023,616	8,849,690	8,114,238	8,387,824
Compounds (metal content)	270,789	500,859	192,696	203,001	340,704	197,099	179,335
Peru	1,874	3,102	3,510	—	3,005	—	(a)
Japan	16,555	19,006	41,610	115,707	199,183	259,455	366,624
TOTAL*	8,750,000	10,800,000	10,800,000	11,600,000	12,800,000	12,700,000	13,300,000

* Excluding cadmium produced in Netherlands, Sweden and U.S.S.R. In the case of South West Africa and Mexico the metal is extracted in other countries and, to avoid duplication, is excluded from the total.

(a) Information not available.

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

(c) Bizonal area only.

(d) January to July only.

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

(f) In addition Secondary (metal and cadmium content of compounds) produced was as follows:

1946	355,104 lb.
1947	104,764 "
1948	121,159 "
1949	384,398 "
1950	427,052 "
1951	167,957 "
1952	80,000 "

EXPORTS OF CADMIUM, ETC.
(Domestic Produce)
(lb. avdp.)

Exporting Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Metal	82,706	4,717	5,141	5,520	(a)	(a)	(a)
Compounds	301,600	93,300	66,100	60,700	77,000	57,200	76,000
South West Africa (b) ..	(a)	(a)	782,000	1,688,000	1,584,000	752,000	1,024,000
Canada	573,368	622,891	596,098	633,607	676,005	824,850	620,344
Australia	297,920	215,040	194,880	389,760	383,040	297,920	306,880
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.	(a)	(a)	(a)	(a)	1,003	324,079	121,254
France	220	102	(a)	(a)	(a)	1,102	441
Italy (incl. scrap)	(a)	(a)	(a)	(a)	(e) 16,314	31,967	3,086
Poland	220,462	(a)	(a)	(a)	(a)	(a)	(a)
Belgian Congo	(c) 6,700	(a)	(a)	(a)	70,303	54,793	43,100
Mexico (d)	1,581,128	1,660,729	1,997,280	1,732,776	1,518,359	1,970,476	1,618,391
United States—							
Metal	140,385	303,401	955,701	566,135	352,927	606,233	(a)
Alloys	75	(a)	1,506	3,000	9,106	5,639	(a)
Dross, flue dust, etc. ..	459,775	18,251	92,847	500	(a)	200,579	300,918
Peru	5,428	3,124	3,510	1,711	3,003	(a)	(a)

(a) Information not available.

(b) Cadmium content of concentrates exported for treatment.

(c) Imports into the United States from the Belgian Congo.

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

(e) July to December only.

IMPORTS OF CADMIUM, ETC.
(Less Re-exports)
(lb. avdp.)

Importing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Metal	767,993	781,282	1,043,665	685,511	1,073,454	1,485,056	1,381,838
Compounds	—	—	300	1,000	(a)	(a)	(a)
Australia—							
Cadmium salts	(b) 5,310	(b) 1,899	(b) 3,469	(b) 930	857	803	2,387
New Zealand—							
Cadmium and salts ..	(a)	(a)	(a)	(a)	336	224	(a)
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.	(a)	(a)	(a)	26,455	39,683	33,069	22,046
France—							
Cadmium	925,941	490,528	(a)	(a)	(a)	620,160	199,959
Cadmium salts	10,362	17,637	(a)	(a)	(a)	21,825	7,937
Sweden	142,679	127,288	192,693	290,516	235,895	213,848	248,525
Yugoslavia	(a)	(a)	(a)	(a)	4,630	1,323	4,275
United States—							
Cadmium	17,415	20,292	9,809	157,204	724,334	90,065	1,478,770
Flue dust (cadmium content)	1,652,905	2,355,588	1,828,139	1,789,667	1,507,417	1,606,775	1,991,549
Argentina (cadmium and salts)	7,348	1	—	(a)	(a)	(a)	(a)
Chile (cadmium and salts) ..	77	(a)	(a)	(a)	(a)	(a)	(a)
Peru (cadmium salts) ..	1,100	(a)	(a)	(a)	(a)	(a)	(a)
Turkey—							
Cadmium	15	108	37	86	68	26	51
Cadmium salts	170	659	271	49	128	157	203

(a) Information not available.

(b) Years ended June 30 of that stated.

CHINA CLAY
PRODUCTION OF CHINA CLAY
(Long tons)

Producing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Great Britain	406,379	513,792	660,246	634,205	734,648	908,840	790,276
Kenya	1,372	306	764	1,319	1,286	1,908	877
Southern Rhodesia	—	—	—	23,341	13,696	9,569	3,573
Tanganyika	178	231	134	162	59	156	293
Union of South Africa	5,379	4,390	4,752	5,679	8,323	10,526	7,361
Canada (sales)	733	—	—	—	—	—	—
Hong Kong (b)	—	10,791	7,722	2,797	1,701	5,589	4,330
India	74,701	66,561	41,243	42,396	53,583	69,096	81,351
Malaya	241	1,003	923	1,173	1,435	1,719	1,128
Australia (c)	12,205	9,902	30,021	23,261	(c) 41,415	44,088	(a)
FOREIGN COUNTRIES							
Austria (crude)	46,457	74,590	127,955	159,349	182,814	208,204	198,652
Belgium	(d) 7,608	(d) 17,578	(d) 18,237	8,962	17,471	23,061	(a)
Czechoslovakia (estimated)	(a)	120,000	150,000	(a)	(a)	(a)	(a)
Denmark—							
Crude	4,400	4,875	3,633	7,683	12,495	13,022	(a)
Washed and pressed	5,200	3,943	6,966	6,485	2,881	7,103	(a)
Washed and unpressed	800	307	578	—	3,615	(a)	(a)
Washed waste	3,700	6,666	9,085	9,572	8,456	5,671	(a)
France	95,655	98,588	127,092	121,530	96,590	104,741	(a)
Germany (Federal)	(a)	(a)	(f) 135,674	(f) 180,618	288,825	292,825	278,564
Greece	—	—	2,603	4,972	6,240	8,000	8,624
Italy—							
Crude	(g) 50,676	(g) 116,127	86,629	60,251	57,928	(a)	(a)
Kaolinic earth			8,297	(a)	(a)	(a)	(a)
Portugal—							
Crude	19,254	13,101	12,154	12,500	16,602	11,025	20,717
Washed			13,287	7,426	10,364	26,168	10,064
Kaolinic sand (h)			318	242	301	243	76
Spain (crude)	29,881	22,939	35,104	31,202	37,937	49,691	65,454
Sweden (washed) (i)	8,183	12,522	7,955	6,910	6,078	(a)	(a)
Algeria	14	282	1,178	2,903	750	1,450	1,999
Egypt	215	150	168	199	69	236	(a)
Eritrea	(a)	(a)	2,985	2,850	1,000	(a)	(a)
Madagascar	47	158	40	82	126	75	67
Morocco (Spanish)	(a)	(a)	(a)	(a)	(a)	44	73
Mozambique	18	—	—	—	53	(a)	(a)
United States (i)	1,180,628	1,272,416	1,400,757	1,263,872	1,563,266	1,666,338	1,612,154
Argentina	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Brazil	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Chile	6,362	8,440	12,769	11,516	8,586	8,798	(a)
Peru (i)	870	1,479	1,395	767	460	465	(a)
Japan	(a)	(a)	6,410	7,178	(a)	(a)	(a)
Korea (South)	(a)	(a)	(a)	(a)	(a)	7,577	(a)
Portuguese India (exports)	227	51	87	—	(a)	(a)	(a)

China clay is also produced in Bulgaria, Roumania, U.S.S.R., China, Indonesia and Manchuria.

- (a) Information not available.
- (b) Revised.
- (c) Including Pottery clay produced in Victoria.
- (d) Including "Eurite".
- (e) Excluding South Australia.
- (f) Bizonal area.
- (g) Including bentonite.
- (h) Kaolin content.
- (i) Sales.

EXPORTS OF CHINA CLAY

(Domestic Produce)

(Long tons)

Exporting Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom	210,896	248,825	335,506	295,233	405,225	471,666	458,409
Tanganyika	88	164	102	46	18	46	161
Union of South Africa	(a)	—	10	—	—	485	12
Hong Kong	(a)	(a)	(a)	(a)	(a)	(a)	2,024
Malaya (b)	13	8	3	29	158	258	250
FOREIGN COUNTRIES							
Austria	(a)	6,019	9,522	12,135	12,292	14,074	15,407
Belgium-Luxemburg E.U.	(a)	(a)	522	446	1,042	168	2,283
Czechoslovakia	28,451	56,351	(c) 56,808	(a)	(a)	(a)	(a)
Denmark	89	163	10	—	33	34	15
France	6,531	10,583	8,630	9,030	6,166	8,420	4,884
Germany (Federal)	(a)	(a)	983	4,150	10,037	15,382	15,345
Italy	(a)	179	403	—	24	49	79
Portugal	6,417	9,773	4,322	773	2,024	9,938	5,125
Spain	4	98	47	55	174	205	(a)
Sweden	3,990	3,404	941	8	60	907	359
Algeria	—	193	918	562	536	633	507
Morocco (Spanish)	(a)	(a)	(a)	(a)	(a)	115	(a)
United States	14,177	16,684	17,030	19,499	25,233	32,531	35,985
Argentina	5	(a)	(a)	(a)	(a)	(a)	(a)
Brazil	3	—	—	—	(a)	(a)	(a)
Chile	317	181	—	(a)	(a)	(a)	(a)
Jordan	—	—	—	—	—	—	(a)
Portuguese India	227	51	87	—	(a)	(a)	(a)

(a) Information not available.

(b) Including re-exports.

(c) January to October only.

IMPORTS OF CHINA CLAY

(Less Re-exports)

(Long tons)

Importing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom (b) ..	18	157	396	276	(a)	(a)	(a)
Union of South Africa (c) ..	365	592	584	613	538	712	(a)
Canada (f)	54,609	71,422	80,024	75,447	83,062	96,097	89,295
Newfoundland (e)	—	958	1,027	(e)	(e)	(e)	(e)
India	307	890	1,510	3,314	2,664	6,470	7,394
Malaya (total imports) ..	28	12	106	30	5	3	19
Australia	—	(d) 2	(d) 487	721	2,108	644	2,709
New Zealand	(a)	(a)	(a)	(a)	875	580	(a)
FOREIGN COUNTRIES							
Austria	(a)	524	1,281	1,134	858	1,725	1,431
Belgium-Luxemburg E.U. ..	(a)	(a)	40,887	34,763	36,386	48,376	31,038
Czechoslovakia	—	30	—	(a)	(a)	(a)	(a)
Denmark—							
Crude	1,006	2,594	736	968	} 18,478	20,876	21,780
Washed	8,594	13,538	11,563	14,883			
Finland (total imports) ..	19,435	24,883	35,764	15,486	18,405	29,720	34,731
France	271	9,641	14,645	10,873	32,125	56,290	90,623
Germany (Federal)	(a)	(a)	32,438	44,725	61,002	70,964	90,623
Italy	(a)	14,578	18,037	25,878	33,266	41,010	51,717
Netherlands (g)	(a)	(a)	42,284	43,511	54,092	53,925	49,030
Norway	10,791	15,504	19,500	17,628	19,410	25,747	23,917
Poland	(a)	19,073	(a)	(a)	(a)	(a)	(a)
Portugal	101	107	82	14	48	28	59
Spain	511	51	119	242	184	1,082	(a)
Sweden	32,084	33,841	44,291	35,310	41,610	50,208	45,589
Yugoslavia	(a)	(a)	(a)	(a)	741	305	119
Algeria	94	88	360	1,409	1,545	3,149	1,068
United States	79,672	73,757	89,223	68,952	109,798	98,638	92,801
Argentina	4,878	(a)	(a)	(a)	(a)	(a)	(a)
Chile	24	(a)	(a)	(a)	(a)	(a)	(a)
Colombia	21	(a)	(a)	(a)	(a)	(a)	(a)
Peru	71	(a)	(a)	(a)	125	70	174
Uruguay	633	1,741	346	1,006	1,707	1,271	(a)
Iran	—	1,935	(a)	(a)	(a)	2	(a)
Japan	(a)	94	(a)	(a)	(a)	2,967	4,368
Turkey	133	317	77	62	4	88	101

(a) Information not available.

(b) Including Ball clay.

(c) Including Cornish or china stone.

(d) Years ended June 30 of that stated.

(e) Years ended March 31 of year following that stated. Included with Canada from April 1, 1949.

(f) Including Newfoundland from April 1, 1949.

(g) Including Pipe clay.

**CHROME ORE AND CHROMIUM
PRODUCTION OF CHROME ORE**
(Long tons)

Producing Country	Estimated Cr ₂ O ₃ content*							1952	1951	1950	1949	1948	1947	1946
	1946	1947	1948	1949	1950	1951	1952							
BRITISH COUNTRIES														
Sierra Leone	10,138	16,504	7,761	21,752	7,399	16,165	23,493	4,300	7,000	3,300	9,100	3,100	6,800	9,900
Southern Rhodesia	149,043	152,699	227,061	239,662	286,922	295,527	317,571	72,000	73,000	109,000	115,000	138,000	142,000	152,000
Union of South Africa	208,902	367,204	406,266	397,967	488,487	536,399	570,866	95,405	166,563	183,433	179,000	219,000	240,000	257,000
Canada	2,777	1,930	1,531	322	—	—	—	1,300	900	700	140	—	—	—
Cyprus (b)	2,740	4,840	10,847	13,862	16,371	12,349	11,594	1,260	2,370	5,093	6,511	7,792	5,938	5,461
India	—	—	—	19,416	16,729	16,702	35,187	—	17,000	11,000	9,700	8,000	8,000	17,400
Pakistan	—	—	—	15,673	18,125	17,498	17,230	—	9,850	8,360	7,500	8,700	8,400	8,300
Australia	—	—	555	632	891	1,380	1,398	—	—	(a)	(a)	(a)	(a)	(a)
TOTAL	418,300	598,400	694,000	709,300	834,900	895,100	977,300							
FOREIGN COUNTRIES														
Greece	8,919	2,598	1,500	3,666	12,627	24,933	31,654	3,400	900	440	1,300	4,500	9,000	11,400
Portugal	602	210	173	87	44	32	106	241	84	69	34	18	13	42
U.S.S.R. (estimated)	92,000	74,600	61,624	107,400	450,000	550,000	600,000	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Yugoslavia	—	262	188	49	—	—	—	30,000	24,000	29,000	41,000	(a)	(a)	(a)
Egypt	161,586	108,619	114,782	95,830	64,780	77,816	60,832	—	110	80	20	—	—	—
Cuba	600	615	467	300	142	1,120	60	300	300	230	(a)	(a)	(a)	(a)
Guatemala	3,667	846	3,231	387	361	6,300	19,022	1,600	340	1,600	180	150	3,100	9,000
United States	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Argentina	(c) 171	(c) 171	(c) 1,600	(c) 3	3,176	2,378	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Brazil	6,977	2,369	9,194	26,682	32,438	40,302	46,406	(a)	1,000	3,850	9,800	11,900	14,400	16,400
Japan	25,893	192,022	252,796	242,847	246,555	329,287	534,930	2,600	(a)	(a)	(a)	(a)	(a)	(a)
Philippine Republic	101,648	154,459	281,812	445,382	415,030	588,343	763,065	49,000	74,000	135,000	214,000	199,000	282,000	366,000
Turkey	24,556	49,732	73,834	87,585	83,462	87,390	105,960	13,000	25,800	38,400	45,600	43,400	45,400	55,100
New Caledonia	—	—	—	—	—	—	—	—	—	—	—	—	—	—
TOTAL	750,000	1,000,000	1,250,000	1,370,000	1,420,000	1,800,000	2,270,000							
World's TOTAL	1,150,000	1,598,000	1,943,000	2,080,000	2,255,000	2,700,000	3,250,000							

* Only approximate estimates can be given owing to the wide variation in the chromium content of the ore produced in several of the countries concerned.
(a) Information not available.
(b) Figures relate to saleable production.
(c) Exports.

EXPORTS OF CHROME ORE, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Chromium metal ..	50	8	83	128	161	86	331
Ferro-chrome	85	57	21	29	(a)	(a)	(a)
Chromates of potash ..	460	24	424	697	653	200	454
Chromates of soda ..	1,678	203	1,232	1,599	2,057	1,964	1,467
Sierra Leone—							
Ore	31,301	22,687	8,411	17,656	13,909	11,930	23,970
Southern Rhodesia—							
Ore	149,557	160,372	222,454	202,468	237,976	300,593	263,496
Union of South Africa—							
Ore	238,668	299,016	287,362	303,890	483,923	494,195	393,054
Canada—							
Ferro-chrome	5,604	24,762	20,103	16,204	29,389	39,046	39,545
Cyprus—							
Ore and concentrates ..	1,140	5,200	6,790	14,640	18,150	12,453	13,274
India (b)—							
Ore	16,448	37,615	9,250	6,382	3,864	8,113	8,936
Pakistan—							
Ore	(a)	(a)	(a)	(a)	12,154	19,351	16,400
Australia—							
Ore	5	—	2	—	—	—	—
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Chromates of potash and soda	(a)	(a)	215	144	391	712	132
France—							
Ferro-chrome	39	37	(a)	(a)	(a)	4,338	4,599
Chromates, chrome alum, etc.	119	310	292	1,797	754	808	743
Germany (Federal)—							
Chromates of potash and soda, and oxides of chromium	(a)	(a)	295	1,905	5,030	3,208	(a)
Greece—							
Ore	(a)	(a)	984	—	9,389	23,414	29,677
Netherlands—							
Chromium compounds..	—	—	12	16	32	35	—
Norway—							
Ferro-chrome	4,492	11,487	15,464	14,559	16,152	21,624	19,414
Portugal—							
Ore	918	801	49	786	689	—	—
Sweden—							
Ore	202	20	—	—	—	15	(a)
Ferro-chrome	1,952	3,650	271	1,079	4,624	5,150	6,488
Chromates and chrome alum	1,501	2,533	2,478	1,168	1,615	1,736	664
Switzerland—							
Ferro-chrome, including ferro-silicon	77	540	1,728	1,569	1,289	3,724	3,235
U.S.S.R.—							
Ore (c)	99,562	241,827	357,906	102,758	71,959	(a)	(a)

(a) Information not available.

(b) Including chrome ore mined in British India, but exported via the Portuguese port of Mormugao as follows:— 1946—Nil, 1947—8,849 tons, 1948—4,773 tons, 1949—610 tons, 1950—1,100 tons, 1951—Nil, 1952—(a).

(c) Exports are not available. Figures are imports from U.S.S.R. as recorded in the trade returns of the United Kingdom, Germany, Sweden and the United States.

EXPORTS OF CHROME ORE, ETC. (Cont.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Yugoslavia—							
Ore	(a)	(a)	(a)	(a)	39,677	52,113	50,388
Cuba—							
Ore	173,065	100,135	160,446	72,383	115,505	89,568	49,658
United States—							
Ore	1,927	3,067	2,584	2,127	1,825	1,813	16,642
Ferro-chrome	2,241	2,751	6,030	1,964	309	214	1,138
Chromates of potash	1,745	1,000	1,147	1,270	372	1,611	706
Chromates of soda	8,491	5,247	5,405	5,100	1,828	7,862	2,930
Brazil—							
Ore	171	—	1,600	3	(a)	(a)	(a)
Philippine Republic—							
Ore	(a)	(b) 189,500	238,158	231,441	245,977	336,656	480,437
Turkey—							
Ore	35,756	180,874	304,716	347,667	348,018	496,639	616,514
New Caledonia—							
Ore	63,619	43,062	69,066	101,287	72,799	91,670	100,980

(a) Information not available.

(b) Imports into Japan from Philippine Republic.

IMPORTS OF CHROME ORE, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Ore	65,753	87,751	114,415	131,710	105,879	131,802	167,561
Chromium metal ..	—	53	59	5	—	—	—
Ferro-chrome	3,683	20,815	15,773	10,054	12,117	22,279	33,729
Chromates of soda ..	1	74	108	—	1	88	110
Canada—							
Ore	14,139	87,788	61,771	59,148	106,540	131,249	132,449
Bichromate of potash ..	117	142	77	143	137	211	170
Bichromate of soda ..	2,146	2,035	2,048	1,400	2,004	3,138	1,655
India (total imports)—							
Bichromate of potash ..	—	50	3	—	—	2	—
Bichromate of soda ..	—	—	132	2	—	—	—
Pakistan (e)—							
Bichromate of potash ..	(a)	(a)	(a)	(a)	(a)	23	7
Bichromate of soda ..	(a)	(a)	(a)	(a)	(a)	255	257
Palestine—							
Ore	—	(a)	(a)	(a)	(a)	(a)	(a)
Australia—							
Ore	—	1,360	2,606	6,848	3,091	3,654	6,243
Ferro-chrome	(a)	(a)	(a)	(a)	(d) 3,015	755	1,513
Bichromate of potash(d)..	130	10	5	81	53	26	8
Bichromate of soda (d) ..	302	48	2	256	312	124	60
New Zealand—							
Bichromate of potash ..	(a)	(a)	(a)	(a)	24	40	(a)
Bichromate of soda ..	(a)	(a)	(a)	(a)	132	223	(a)
FOREIGN COUNTRIES							
Austria—							
Ore	(a)	(a)	(a)	(a)	(a)	48,183	49,197
Ferro-chrome	(a)	(a)	2,111	3,271	4,686	3,249	3,933
Chromates	(a)	33	225	325	662	393	569
Belgium-Luxemburg E.U.—							
Ore	(a)	(a)	(a)	1,426	1,036	3,421	2,334
Chromates of potash and soda	(a)	(a)	258	652	786	813	649
Bulgaria—							
Chromates of potash ..	19	(a)	(a)	(a)	(a)	(a)	(a)
Czechoslovakia—							
Ore	3,357	2,935	(b) 2,043	(a)	(a)	(a)	(a)
Chromates of potash and soda	33	310	(b) 711	(a)	(a)	(a)	(a)
Denmark—							
Chromates of potash and soda	375	105	321	286	233	437	209
Finland (total imports)—							
Ferro-chrome	157	132	206	410	410	607	(a)
Chromates of potash and soda	150	150	68	414	224	608	(a)
Chrome sulphate	155	156	381	271	166	300	(a)
France—							
Ore	45,978	42,365	37,710	46,559	(c) 14,171	67,833	82,871
Ferro-chrome	134	832	(a)	(a)	(a)	1	—
Chromates	153	1,016	1,149	620	423	2,018	921

(a) Information not available.

(b) January to October only.

(c) Imports from Turkey and New Caledonia only.

(d) Years ended June 30 of that stated.

(e) Years ended March 31 of that following. Included with India prior to 1948.

IMPORTS OF CHROME ORE, ETC. (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Germany (Federal)—							
Ore	(a)	(a)	7,308	49,137	72,788	104,944	103,426
Italy—							
Ore	2,950	2,923	(a)	(a)	(b) 6,180	17,028	18,465
Ferro-chrome	116	81	524	1,534	1,924	907	1,407
Netherlands—							
Chromium compounds	900	1,702	1,328	1,246	1,375	2,164	1,322
Norway—							
Ore	9,571	51,088	50,524	39,242	51,634	49,130	49,716
Portugal—							
Chromates of potash and soda	348	79	3	5	1	1	46
Chrome alum	43	32	—	3	1	—	7
Spain—							
Chromates	329	59	91	28	228	2	(a)
Sweden—							
Ore	45,357	56,258	26,273	30,917	54,319	40,843	47,441
Ferro-chrome	725	1,116	2,140	2,255	2,035	2,462	1,612
Chrome alum	6	19	10	—	1	—	1
Chromates	532	315	606	598	854	843	1,430
Switzerland—							
Ferro-chrome and ferro-silicon	2,260	2,769	4,434	1,321	1,280	8,037	3,070
Egypt—							
Chromates of potash and soda	632	600	572	293	(a)	(a)	416
Mexico—							
Chromates	1,076	382	(a)	—	387	1,442	780
United States—							
Ore	680,601	987,660	1,376,853	1,074,920	1,161,087	1,275,911	1,517,944
(Cr ₂ O ₃ content) ..	298,994	433,921	607,765	476,420	517,305	545,300	636,272
Ferro-chrome (Cr content)	886	5,759	4,209	3,515	11,375	14,671	10,808
Metal and alloys ..	—	—	—	—	53	83	135
Argentina—							
Bichromate of potash ..	88	(a)	(a)	(a)	(a)	(a)	(a)
Bichromate of soda ..	652	(a)	(a)	(a)	(a)	(a)	(a)
Chromate of lead ..	164	(a)	(a)	(a)	(a)	(a)	(a)
Chrome alum	53	(a)	(a)	(a)	(a)	(a)	(a)
Brazil—							
Chromates of potash and soda	1,477	388	500	1,571	(a)	318	1,362
Other chromium salts ..	125	149	50	109	(a)	25	8
Chile—							
Ferro-chrome	22	22	—	(a)	(a)	(a)	(a)
Bichromate of potash ..	86	(a)	(a)	(a)	(a)	(a)	(a)
Bichromate of soda ..	518	(a)	(a)	(a)	(a)	(a)	(a)
Colombia—							
Chromates	119	(a)	(a)	(a)	(a)	(a)	(a)
Peru—							
Chromium compounds ..	210	(a)	(a)	(a)	(a)	151	127
Japan—							
Ore	(a)	(a)	(a)	(a)	6,986	27,902	13,282
Turkey—							
Chromates	—	80	43	89	89	59	90
Chrome alum	—	—	25	14	26	53	58

(a) Information not available.

(b) July 15 to December 31 only.

COAL, COKE AND BY-PRODUCTS

PRODUCTION OF COAL (Including Brown Coal and Lignite)

(Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Great Britain—							
Mined—							
Anthracite	3,525,550	3,599,250	3,794,100	3,724,200	3,654,900	3,731,500	3,707,800
Bituminous	177,717,403	183,603,569	193,851,600	198,964,500	200,484,500	208,151,100	210,614,100
Opencast	8,838,900	b 10,250,900	(b)11,782,200	612,477,400	612,185,400	611,009,800	612,127,100
Northern Ireland—							
Bituminous	640	1,300	1,420	650	570	1,296	890
Lignite	174	386	70	—	—	—	—
Nigeria	607,652	579,354	607,757	550,517	583,238	550,281	581,048
Southern Rhodesia	1,587,243	1,484,163	1,668,454	1,887,513	2,094,501	2,263,794	2,518,947
Union of South Africa	23,229,292	23,127,179	23,645,052	25,093,379	26,055,179	26,211,876	27,621,036
Canada—							
Bituminous	11,474,433	9,877,375	12,206,893	12,613,095	12,155,639	11,931,686	11,320,895
Sub-bituminous	3,068,654	2,888,446	2,847,140	2,788,297	2,965,690	2,678,587	2,514,406
Lignite	1,360,258	1,402,810	1,418,904	1,670,078	1,967,163	1,985,105	1,860,237
India	29,709,346	30,144,505	30,124,175	31,695,375	32,307,481	34,432,396	36,301,865
Pakistan	}	357,744	240,077	331,964	435,149	504,703	599,000
Malaya (sub-bituminous)	224,674	226,301	375,460	385,502	415,777	382,539	314,922
Australia—							
Bituminous	13,911,843	14,856,508	14,783,031	14,107,442	16,548,377	16,112,041	17,810,069
Sub-bituminous	}	}	}	}	}	1,496,387	1,611,843
Lignite	5,707,039	6,140,173	6,692,413	7,375,559	7,327,119	7,836,056	8,103,764
New Zealand—							
Anthracite	2,272	1,606	1,705	1,885	1,959	672	808
Bituminous	955,998	934,365	950,901	934,802	919,029	677,258	860,898
Sub-bituminous	1,569,020	1,504,942	1,508,045	1,577,908	1,468,397	1,470,465	1,658,353
Lignite	266,580	310,810	315,195	298,680	280,066	287,110	229,749
TOTAL	283,953,000	291,657,000	306,774,000	316,465,000	321,850,000	331,714,000	340,358,000
Irish Republic—							
Anthracite	56,943	48,723	39,197	28,465	47,522	54,799	59,500
do. dust	63,779	71,266	48,033	19,213	49,250	49,679	49,200
Semi-bituminous	}	}	}	65,556	53,460	53,329	52,300
Other	90,553	97,885	81,956	13,369	18,945	18,449	18,000

(a) Information not available.

(b) Production of Opencast coal by kinds was as follows (long tons):—

1947—Anthracite	234,670,	Bituminous	9,964,000	and Lignite	62,205.
1948—	222,900	..	11,559,300	..	Nil.
1949—	606,100	..	11,871,300	..	Nil.
1950—	902,300	..	11,283,100	..	Nil.
1951—	617,600	..	10,392,200	..	Nil.
1952—	475,700	..	11,651,400	..	Nil.

PRODUCTION OF COAL (Cont.)

Producing Country	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES							
Albania—							
Lignite (estimated) ..	16,000	16,000	16,000	16,000	16,000	16,000	16,000
Austria—							
Bituminous	106,625	174,962	177,674	180,166	180,053	192,581	187,323
Brown coal	2,364,186	2,794,472	3,285,184	3,755,635	4,239,706	4,909,890	5,097,169
Belgium	22,491,193	24,050,471	26,269,581	27,414,085	26,889,325	29,182,900	29,904,527
Bulgaria—							
Anthracite (estimated) ..	27,000	27,000	(b)	} 4,647,746	5,621,449	6,021,387	7,144,172
Bituminous (estimated) ..	200,000	200,000	295,487				
Lignite	3,239,000	3,750,000	(c) 3,514,141				
Czechoslovakia—							
Bituminous	13,913,000	16,047,254	17,465,474	16,879,000	18,159,000	18,010,000	19,800,000
Brown coal	19,204,000	22,030,861	23,217,014	25,983,000	27,072,000	30,500,000	32,000,000
Denmark—							
Lignite	2,275,000	2,758,000	2,362,000	1,575,000	758,000	(a)	(a)
France—							
Anthracite (e)	580,000	603,960	515,410	} 50,395,681	50,039,932	52,135,000	54,491,000
Bituminous	45,860,000	43,898,169	42,094,665				
Lignite	2,070,809	2,060,164	1,812,655				
Germany—							
Bituminous	56,891,000	74,016,000	f 87,020,000	f 103,155,000	f 110,542,800	f 118,776,000	f 123,089,000
Brown coal	157,351,000	158,060,000	f 63,949,000	f 71,085,000	f 74,643,000	f 81,808,000	f 82,049,000
Greece—							
Lignite	122,016	130,900	124,600	177,000	157,000	188,000	212,000
Hungary—							
Bituminous	709,000	1,043,000	1,206,000	1,360,000	} 12,800,000	15,000,000	18,500,000
Brown coal and lignite ..	5,539,000	7,627,000	9,229,000	10,271,000			
Italy—							
Anthracite	103,331	114,299	85,186	74,064	67,537	80,762	80,328
Bituminous	1,056,048	1,222,253	871,983	1,012,669	947,012	1,067,803	991,687
Brown coal	1,496,918	1,821,550	886,646	849,590	768,479	864,764	825,873
Netherlands—							
Bituminous	8,182,522	9,940,824	10,858,086	11,520,099	12,053,935	12,227,944	12,334,000
Brown coal	493,266	466,463	274,554	195,278	191,011	245,122	231,208
Poland—							
Bituminous	46,541,155	58,196,455	69,152,000	73,306,000	76,769,000	(d) 80,697,000	(d) 83,103,000
Brown coal	1,431,712	4,690,700	4,960,000	4,554,000	4,764,000	(a)	(d) 4,695,000
Portugal—							
Anthracite	373,532	364,301	380,661	436,458	412,208	410,225	435,081
Brown coal	138,649	106,020	101,622	113,006	92,107	83,799	75,627
Roumania—							
Anthracite	14,757	23,404	} 2,589,000	} 188,000	(a)	(a)	(a)
Bituminous	148,807	137,173					
Brown coal	1,402,339	1,632,469		} 2,341,000	(a)	(a)	(a)
Lignite	413,844	439,674					
Saar	7,760,000	10,318,000	12,368,800	14,038,000	14,853,000	16,027,000	15,979,000
Spain—							
Anthracite	1,434,509	1,389,062	1,439,634	1,416,487	1,480,368	1,575,618	1,795,000
Bituminous	9,154,183	9,049,522	9,019,408	9,244,921	9,461,785	9,795,249	10,051,000
Lignite	1,315,003	1,243,050	1,378,062	1,311,135	1,294,892	1,473,434	1,571,000
Spitzbergen and Bear Island	94,911	331,184	507,979	571,000	541,862	707,433	(g) 446,242
Sweden	480,467	409,218	368,532	311,612	304,411	274,364	341,515
Switzerland—							
Bituminous	73,367	26,477	—	—	—	—	—
Brown coal	101,633	12,000	—	—	—	—	—

(a) Information not available.

(b) Included with Lignite.

(c) Including Anthracite.

(d) Estimated.

(e) Excluding "Houilles maigres ou anthraciteux" which are included with Bituminous.

(f) Western Zones. Figures for the Russian Zone are not available; estimates are included in the totals.

(g) Norwegian mines only.

PRODUCTION OF COAL (Cont.)

Producing Country	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
U.S.S.R. (b)	159,000,000	179,100,000	203,700,000	230,000,000	256,000,000	280,000,000	300,000,000
Yugoslavia—							
Bituminous	745,000	1,045,000	957,000	1,268,000	1,136,000	976,000	995,000
Brown coal and lignite..	5,951,000	8,099,000	9,597,000	10,661,000	11,527,000	10,875,000	10,912,000
Algeria—							
Bituminous	211,496	201,369	219,070	261,000	253,700	242,700	265,122
Belgian Congo	100,292	100,462	115,638	149,964	157,441	214,459	248,891
Madagascar	371	—	—	16	1,870	5,380	3,504
Morocco (French)—							
Anthracite	218,248	264,300	285,700	336,025	362,058	387,730	452,700
Mozambique	16,038	15,917	8,938	12,899	55,087	87,554	(a)
Tunis—							
Lignite	93,465	75,166	69,283	46,500	40,500	8,040	—
Greenland	8,000	7,000	8,000	7,000	8,000	7,000	8,000
Mexico	967,300	1,022,800	1,040,528	1,012,000	927,000	1,087,000	1,296,069
United States—							
Anthracite	54,023,994	51,062,508	51,017,811	38,126,539	39,354,199	38,098,212	36,234,427
Bituminous	474,334,329	560,491,132	532,528,877	388,192,773	457,983,113	473,547,882	412,558,000
Lignite	2,381,803	2,565,762	2,755,255	2,760,830	3,008,898	2,938,486	2,621,000
Argentina	3,100	14,000	17,200	17,600	25,700	38,900	(a)
Brazil	1,866,764	1,967,326	1,993,007	2,100,147	1,951,743	1,918,759	1,930,321
Chile—							
Bituminous	1,923,201	2,046,279	2,198,774	2,043,892	2,146,478	2,176,371	2,378,723
Colombia	542,000	497,000	506,000	492,000	(a)	(a)	(b)1,000,000
Peru—							
Anthracite	80,793	80,749	41,620	27,552	32,384	62,755	(a)
Bituminous	145,388	131,182	140,797	139,454	160,133	120,032	(a)
Venezuela (c)	15,374	14,831	20,291	23,403	24,985	27,100	24,796
Afghanistan	(a)	(a)	(a)	(a)	(a)	13,306	(a)
China (e)	18,118,000	18,400,000	18,000,000	16,000,000	36,000,000	42,600,000	(a)
Formosa	1,041,000	1,269,000	(b) 1,500,000	1,623,000	1,412,000	1,630,000	2,250,000
French Indo-China—							
Anthracite	257,600	243,531	349,413	370,274	486,607	632,100	824,568
Indonesia	75,354	219,389	531,241	651,990	791,730	854,012	943,556
Iran (b)	150,000	150,000	150,000	200,000	250,000	250,000	250,000
Japan—							
Anthracite	437,000	638,000	839,000	768,000	674,000	933,000	992,000
Bituminous	19,617,000	26,172,000	32,491,000	36,695,000	37,179,000	41,703,000	41,679,000
Lignite	2,315,000	2,776,000	2,512,000	2,055,000	1,264,000	1,382,000	1,512,000
Korea (South)	272,755	459,896	769,836	1,049,000	555,000	(d)112,000	567,000
Lebanon—							
Lignite	—	—	354	(a)	(a)	(a)	(a)
Philippine Republic ..	46,644	72,568	86,361	121,388	156,314	148,311	137,238
Turkey—							
Bituminous	3,770,038	3,882,811	3,959,283	4,116,645	4,291,728	4,654,892	4,769,801
Lignite	594,000	826,740	994,140	1,251,848	1,184,501	1,234,997	1,365,120
TOTAL	1,160,000,000	1,330,000,000	1,360,000,000	1,290,000,000	1,440,000,000	1,540,000,000	1,540,000,000
WORLD'S TOTAL	1,445,000,000	1,822,000,000	1,868,000,000	1,810,000,000	1,762,000,000	1,872,000,000	1,880,000,000

- (a) Information not available.
- (b) Estimated.
- (c) Including clandestine production.
- (d) Revised.
- (e) United States Bureau of Mines.

PRODUCTION OF COKE
(Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Great Britain—							
Gas-works—coke (b) ..	9,994,700	9,889,700	10,875,800	11,318,900	11,768,200	12,354,300	12,483,300
breeze (b) ..	2,361,900	2,373,900	2,621,200	2,546,700	2,705,000	2,689,400	2,729,000
Coke-ovens—coke ..	13,986,600	13,814,947	15,422,800	15,491,000	15,381,400	16,096,200	17,091,800
breeze ..	732,000	782,001	858,000	930,400	1,017,000	1,000,700	1,039,900
Northern Ireland—							
Gas-works ..	(a)	(a)	160,000	167,300	164,000	173,700	170,400
Southern Rhodesia ..	84,465	62,684	78,109	79,969	94,357	92,786	108,605
Union of South Africa—							
Coke-ovens	692,249	655,011	789,561	940,687	1,019,660	1,233,845	1,332,035
Gas-works	29,062						
Canada—							
Gas-works—coke ..	231,398	233,107	236,029	235,254	216,497	212,723	181,192
breeze ..	5,137	5,545	2,326	1,783	1,996	1,691	
Coke-ovens—coke ..	2,551,429	2,654,487	3,067,502	2,989,983	3,103,922	3,062,087	3,432,435
breeze ..	214,812	247,496	217,157	223,518	217,474	223,869	
India—							
Gas-works	(a)	75,082	78,337	80,004	75,440	74,006	89,011
Hard	1,674,997	1,868,838	1,750,954	2,006,019	2,215,089	2,201,641	2,177,221
Soft	627,622	671,033	850,517	1,025,122	1,268,870	1,250,165	1,289,411
Australia (d)—							
Gas-works—coke ..	1,027,157	1,072,906	1,170,545	1,181,516	988,356	1,041,715	1,203,602
breeze ..	51,845	55,546	60,556	69,160	75,606	118,231	123,231
Coke-ovens—coke ..	986,005	1,197,636	1,384,238	1,150,039	1,164,401	1,586,461	1,636,982
breeze ..	78,466	93,403	111,062	83,439	87,394	108,658	119,288
New Zealand (e)—							
Gas-works	88,554	91,605	94,355	93,419	95,523	69,158	(a)
Irish Republic—							
Gas-works (c)	121,019	79,978	77,867	86,392	83,975	89,902	89,065
FOREIGN COUNTRIES							
Austria—							
Gas-works	299,821	283,121	309,700	555,519	547,520	449,830	447,170
Coke-ovens	112,601	338,962	581,700	844,963	971,705	1,068,540	1,210,285
Belgium—							
Gas-works	(a)	(a)	39,400	33,400	27,959	22,569	20,763
Coke-ovens	3,839,350	4,717,970	5,540,373	4,955,270	4,525,440	6,000,110	6,317,752
Bulgaria—							
Coke-ovens	(a)	(a)	8,341	(a)	(a)	(a)	(a)
Czechoslovakia—							
Gas-works	371,312	4,074,614	(f)4,542,100	{ (a)	(a)	(a)	(a)
Coke-ovens	2,215,115						
Denmark (gas-works) (g) ..	481,538	505,734	553,200	574,100	(j) 363,300	(j) 401,600	(j) 410,400
Finland (gas-works) ..	56,650	55,914	62,961	66,684	66,622	74,806	113,264
France—							
Gas-works (Sales) ..	1,180,393	1,652,089	2,071,800	2,243,300	2,031,000	2,787,000	2,586,000
Coke-ovens	5,069,425	5,907,800	6,148,199	6,793,603	6,922,000	7,950,000	9,069,000
Semi-coke	165,330	182,672	198,787	232,303	248,000	268,000	273,000
Germany (Federal)—							
Gas-works	1,467,600	1,651,600	2,211,200	(i)2,661,800	2,094,000	3,242,000	3,350,000
Coke-ovens—Hard coke	(i)9,556,000	(i)14,886,000	(i)19,487,000	i24,743,000	26,901,700	33,102,000	36,679,000
do. Brown-coal coke	(h)292,000	(h) 356,000	(h) 444,000	(i) 594,400	654,300	680,000	690,000

(a) Information not available. (b) Excluding coke used for heating retorts.

(c) Including coke-breeze.

(d) Years ended June 30 of that stated.

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

(f) January to October only

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

(h) British and American Zones. (i) Western Zones. (j) Calendar year.

PRODUCTION OF COKE (Cont.)

Producing Country	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Greece (gas-works) ..	(a)	(a)	11,300	15,300	(a)	30,818	29,707
Italy—							
Gas-works	(a)	773,530	971,515	966,708	1,049,857	1,074,681	1,093,843
Coke-ovens	38,504	945,523	1,287,972	1,487,304	1,486,469	2,146,135	2,433,683
Netherlands—							
Gas-works	488,594	938,000	988,000	998,600	980,000	943,000	913,000
Coke-ovens	1,287,110	1,746,000	2,205,000	2,435,300	2,759,600	2,926,000	3,177,000
Norway (gas-works) ..	51,024	54,982	58,540	71,198	60,031	60,154	64,270
Poland—							
Gas-works	497,752	693,351	5,011,000	5,662,000	5,952,000	6,250,000	7,234,000
Coke-ovens	3,019,555	3,703,348					
Semi-coke	8,640	55,037					
Portugal (gas-works)—							
Coke	18,291	22,529	23,432	20,096	24,498	26,383	27,792
Breeze	4,532	4,958	6,997	6,775	(a)	(a)	(a)
Coke dust	3,476	5,909	7,165	4,191	(a)	(a)	(a)
Saar—							
Gas-works	(a)	(a)	2,200	2,000	600	—	—
Coke-ovens	804,000	1,925,000	2,700,785	3,275,026	3,176,023	3,706,056	3,825,831
Semi-coke	34,769	44,223	47,343	37,413	50,222	85,323	92,105
Spain—							
Gas-works	181,600	151,606	186,900	211,067	197,056	212,783	213,000
Coke-ovens	746,500	802,761	834,976	952,217	931,158	979,136	1,157,400
Sweden (including breeze)	403,564	631,296	685,197	659,471	618,604	(a)	(a)
Switzerland—							
Gas-works	177,321	331,648	400,600	393,700	406,500	459,000	451,000
Algeria (gas-works) ..	77,437	81,586	91,546	41,795	75,242	94,815	89,614
Canary Islands (gas-works)	3,500	2,907	2,029	1,158	1,343	364	(a)
Tunis (gas-works)	10,573	10,028	10,680	18,448	12,732	12,633	12,331
United States—							
Coke-ovens—							
Coke	45,052,916	56,406,616	57,884,486	50,512,936	56,314,174	60,993,882	54,571,748
Breeze and screenings	3,498,954	4,629,682	4,825,671	4,061,587	4,299,431	4,290,490	3,923,677
Coke-ovens (gas-works)							
(c)—							
Coke	3,098,376	3,199,231	3,466,047	3,257,137	3,409,592	3,280,379	2,437,283
Breeze and screenings	279,843	257,919	361,827	339,383	319,103	286,147	218,617
Beehive—							
Coke	4,078,929	5,970,804	5,872,831	3,049,061	5,203,054	6,556,723	3,932,137
Breeze and screenings	67,871	114,310	96,667	53,120	80,993	78,262	57,376
Gas-works—							
Coke	672,621	593,371	472,655	338,769	155,734	113,070	40,102
Breeze and screenings	86,446	69,039	69,479	52,139	22,192	17,326	4,185
Brazil	(a)	(a)	261,556	267,419	282,069	(a)	(a)
Chile	(a)	107,022	123,506	122,468	119,582	117,128	111,211
Colombia (b)	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Uruguay (gas-works)—							
Coke	22,887	24,808	26,271	27,728	32,116	33,408	35,874
Breeze	2,622	3,640	3,483	3,253	4,139	4,926	5,743
Japan—							
Coke-ovens	354,000	461,000	984,000	1,559,000	2,055,000	2,740,000	2,964,000
Beehive, etc.	555,000	685,000	921,000	980,000	614,000	1,063,000	968,000
Gas-works	449,000	673,000	1,064,000	1,287,000	1,311,000	1,665,000	1,854,000
Turkey—							
Gas-works	47,559	52,622	55,137	52,857	54,932	(a)	(a)
Coke-ovens	258,012	261,244	266,210	288,680	299,052	302,990	393,552
Semi-coke	42,410	59,515	65,300	70,221	(a)	(a)	(a)
Coke dust	2,088	2,707	888	(a)	(a)	(a)	(a)

(a) Information not available. (b) Estimated.
 (c) By-product coke plants owned by gas companies.

PRODUCTION OF BRIQUETTES

(Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Great Britain	1,542,900	1,832,700	1,466,100	1,512,000	1,397,000	1,747,000	1,776,000
Canada	294,378	286,117	318,031	452,646	403,742	353,571	634,904
Australia (b)—							
Brown-coal briquettes ..	493,144	490,338	545,236	558,899	588,564	511,404	(a)
New Zealand	12,975	11,409	12,906	13,715	11,132	11,078	11,240
Irish Republic	84,426	53,205	6,126	1,823	1,050	2,755	(a)
FOREIGN COUNTRIES							
Belgium	1,062,569	1,327,183	954,857	770,946	1,003,617	1,781,542	1,464,161
Czechoslovakia—							
Coal briquettes	205,876	255,037	(a)	(a)	(a)	(a)	(a)
Brown-coal briquettes ..	248,465	279,164	(a)	(a)	(a)	(a)	(a)
Denmark—							
Brown-coal briquettes ..	(a)	18,253	16,282	38,317	19,217	26,902	(a)
France	5,080,916	5,136,406	5,735,974	6,170,954	6,227,000	7,920,000	7,816,000
Germany (c)—							
Coal briquettes	1,872,000	2,142,000	2,925,000	3,529,500	3,662,900	4,039,000	4,883,000
Brown-coal briquettes ..	10,604,000	11,653,000	12,694,000	14,024,600	14,676,900	15,672,500	16,144,000
Italy—							
Anthracite briquettes ..	(a)	11,063	2,982	8,370	2,366	(a)	(a)
Brown-coal briquettes ..	(a)	15,184	1,565	—	—	(a)	(a)
Netherlands—							
Coal briquettes	714,395	895,674	921,084	976,134	1,032,524	1,045,571	929,533
Brown-coal briquettes ..	42,966	41,015	61,993	60,204	55,541	71,358	72,238
Poland—							
Coal briquettes	520,726	622,272	704,520	681,826	619,100	(a)	(a)
Brown-coal briquettes ..	—	41,038	111,839	168,570	166,700	(a)	(a)
Portugal	76,055	95,879	72,655	70,476	77,952	89,923	92,791
Spain	820,282	777,065	989,408	1,117,919	1,112,509	1,142,213	1,016,000
Sweden	25,161	85,527	109,571	58,558	3,168	(a)	(a)
Switzerland (estimated) ..	100,000	100,000	100,000	100,000	100,000	100,000	100,000
Algeria	95,978	81,581	76,591	49,328	64,553	65,765	51,064
Morocco (French)	21,851	45,485	31,234	14,380	34,027	24,364	15,300
Tunis	31,836	36,183	45,024	43,444	41,481	36,347	14,552
United States (d)	2,682,167	2,831,782	2,793,283	2,146,403	2,473,232	2,131,446	2,035,496
Indonesia	(a)	2,000	(a)	(a)	(a)	(a)	(a)
Turkey	12,364	14,891	7,205	(a)	(a)	(a)	(a)

(a) Information not available.

(b) Years ended June 30 of that stated.

(c) Western Zones only from 1946 inclusive.

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

1946, 170,463; 1947, 163,287; 1948, 140,190; 1949, 112,454; 1950, 121,145; 1951, 106,728; 1952, 85,953

PRODUCTION OF COAL BY-PRODUCTS

(Long tons)

Producing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Great Britain—							
Tar (quantity distilled) ..	2,196,000	2,274,000	2,447,000	2,481,000	2,530,000	2,700,000	2,710,000
Road tar (incl. refined) ..	735,000	732,000	742,000	648,000	616,000	608,000	610,000
Pitch	474,000	529,000	624,000	643,000	599,000	639,000	646,000
Motor benzol	224,300	174,500	215,700	230,600	216,900	195,700	225,900
Other motor spirits, etc.	118,300	81,000	111,000	134,000	134,300	119,700	117,700
Other refined light oils ..	89,700	86,500	99,100	94,100	116,100	138,800	138,000
Creosote-pitch mixture ..	381,000	305,000	310,000	425,000	580,000	632,000	647,000
Creosote oil	357,000	452,000	490,500	504,800	452,400	490,500	485,700
White naphthalene	7,500	10,700	11,800	11,800	12,000	13,200	6,500
Hot-pressed do.	8,400	8,900	14,000	13,600	13,900	15,400	18,600
Crude do.	19,400	12,600	13,700	12,200	14,000	12,600	16,900
Pyridine bases	650	650	700	700	750	930	820
Natural phenol	9,600	9,100	10,000	9,100	11,500	11,200	10,700
Refined cresylic acid	40,000	40,000	45,600	32,200	45,650	53,600	47,400
Anthracene 40-50%	2,240	2,280	2,700	2,600	2,550	2,590	2,820
Ammonium sulphate (b)	833,700	796,700	901,000	924,500	960,700	968,100	1,015,400
Canada—							
Tar* (crude)	169,456	167,053	193,544	194,118	207,325	207,756	(a)
Tar (refined)	26,845	18,243	12,532	18,169	22,178	22,447	20,394
Pitch	75,909	67,367	78,227	82,403	101,348	100,126	117,627
Creosote oils	48,738	45,823	52,592	59,795	55,848	55,841	55,277
Ammonium sulphate	27,210	29,465	37,168	35,105	36,516	(a)	(a)
Benzol	23,104	23,121	24,038	26,161	28,748	30,242	(a)
Ammonia liquor (NH ₃ content)	696	662	622	650	(a)	(a)	(a)
Toluol, naphthalene, etc.	2,635	4,060	5,670	5,841	6,695	7,177	(a)
India (coke-ovens)—							
Ammonium sulphate	19,108	18,395	16,212	19,328	22,104	25,713	25,699
Tar	62,953	63,810	59,183	66,587	80,521	82,909	84,869
Benzol (crude)	1,349	1,286	4,353	4,070	4,741	4,130	4,951
Pitch	1,829	1,247	1,299	1,143	971	1,224	710
Naphthalene (crude)	121	126	120	133	144	205	123
Australia (gas-works) (c)—							
Tar (crude)*	165,032	185,817	193,853	192,932	178,745	154,430	165,205
Tar (refined)*	37,864	40,145	43,985	40,315	35,324	36,275	35,371
Tar oils (crude)	15,126	18,422	19,150	15,537	13,772	14,807	16,205
Ammonia liquor	74,150	68,417	75,756	85,172	80,731	107,740	104,374
Ammonium sulphate	2,274	1,186	(a)	(a)	760	(a)	(a)
New Zealand (d)—							
Tar (gas-works)*	11,958	13,051	13,223	13,822	13,713	12,058	(a)
Irish Republic (gas-works)—							
Tar	6,781	6,237	10,276	12,917	14,102	14,405	15,078
Ammonium sulphate	1,019	261	338	312	277	240	241
FOREIGN COUNTRIES							
Austria—							
Tar	} (a)	(a)	(e) 21,235	(e) 20,831	{ 27,356	21,341	21,845
Benzol .. .. .								4,609	4,384	4,086

* See page 74 for conversion rates.

(a) Information not available.

(b) Source: British Sulphate of Ammonia Federation. Includes ammonium sulphates from other sources.

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

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

(e) Total coal-tar products excluding crude tar.

PRODUCTION OF COAL BY-PRODUCTS (Cont.)

Producing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Belgium—							
Tar (crude)	127,346	158,349	189,588	178,682	164,273	201,150	207,455
Benzol, crude	7,559	8,533	21,672	38,088	36,213	49,088	(a)
do. motor	16,441	15,091	24,895	20,474	10,052	(a)	20,691
do. industrial	7,913	7,786	10,563	7,082	16,175	28,700	14,829
Benzine	3,117	7,389	5,678	8,716	6,156	15,498	14,597
Toluol and xylol	2,595	2,886	3,128	4,327	3,913	5,524	5,319
Solvent naphtha	815	826	672	844	814	1,091	689
Ammonium sulphate	40,250	49,191	66,424	61,513	56,270	(a)	(a)
Pitch	(a)	(a)	(a)	19,067	21,780	25,237	(a)
Denmark—							
Tar (gas-works)	22,620	30,538	36,748	39,370	41,274	44,185	(a)
Finland—							
Gas-works—							
Tar	1,996	2,586	2,744	2,742	2,984	3,583	4,669
Benzol	201	186	176	161	455	621	575
Ammonia	232	210	198	211	228	251	249
France—							
Tar (crude)	354,300	419,091	428,269	462,570	468,132	532,200	577,402
Ammonium sulphate	58,955	72,943	75,823	86,265	79,204	100,100	(a)
Benzol (crude)	55,770	55,445	60,956	67,823	71,477	89,692	(a)
Pitch	122,814	127,234	139,856	157,282	(a)	(a)	(a)
Phenol (crude)	3,879	3,931	4,992	6,388	(a)	(a)	(a)
Naphthalene	22,063	21,985	27,811	28,309	(a)	(a)	(a)
Germany (b)—							
Tar (crude)	446,900	638,200	806,600	1,036,452	1,159,835	1,378,353	1,539,390
Pitch	201,000	285,100	409,600	544,929	610,660	707,181	798,420
Tar oils	107,300	157,600	220,000	311,084	350,075	392,406	448,031
Naphthalene	(c) 21,212	(c) 31,972	(a)	(a)	53,945	55,511	66,538
Benzol (crude)	96,200	144,600	207,900	272,365	309,534	383,174	428,481
Refined benzols	82,400	125,200	189,600	243,814	268,149	344,209	400,413
Phenol, cresol, etc.	3,200	4,600	7,500	7,144	17,067	15,577	15,327
Anthracene	(a)	(a)	(a)	(a)	18,061	26,631	30,251
Italy—							
Tar	(a)	67,278	94,843	106,300	109,862	135,246	144,643
Ammonium sulphate		10,515	13,675	15,263	15,735	(a)	(a)
Benzol (crude)		9,976	13,471	14,221	14,852	19,277	22,014
Naphthalene (crude)		6,545	5,462	5,433	5,925	8,077	5,111
Distillates		27,951	43,002	44,391	56,589	60,885	72,483
Benzol (refined)		5,699	9,700	11,304	14,721	16,077	21,265
Toluol and xylol		698	1,911	1,727	2,413	4,523	4,778
Pitch		19,871	30,504	29,826	38,603	41,829	45,911
Solvents	3,405	4,686	2,298	3,283	3,576	4,800	
Netherlands—							
Tar (crude)	(a)	108,950	135,968	140,040	146,424	150,684	152,984
Norway—							
Tar (gas-works)	3,160	3,758	4,580	4,351	5,682	5,016	6,137
Poland—							
Tar (crude)	79,030	95,990	118,171	(a)	(a)	(a)	(a)
Pitch	13,292	14,758	19,199				
Ammonium sulphate	20,417	29,391	29,707				
Benzol (crude)	24,876	24,515	38,712				
Portugal (gas-works)—							
Tar (crude)	3,680	2,704	2,058	1,826	2,484	(a)	(a)
Tar (refined)	2,515	2,053	1,341	425	2,938	(a)	(a)
Benzol	8	21	24	11	144	(a)	(a)
Phenol	41	46	28	20	176	(a)	(a)
Anthracene	10	8	—	—	747	(a)	(a)
Creosote	545	513	494	153	1,836	(a)	(a)
Naphthalene (crude)	2	12	4	3	—	(a)	(a)
Pitch	907	869	714	190	873	(a)	(a)

(a) Information not available.

(b) Bizonal area. Federal Germany after 1948.

(c) British Zone only.

PRODUCTION OF COAL BY-PRODUCTS (Cont.)

Producing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Spain—							
Tar	35,900	35,941	34,893	48,787	49,536	52,166	(a)
Pitch	8,005	10,136	10,930	8,551	10,959	10,882	(a)
Benzol	(a)	7,613	6,636	7,101	4,212	10,664	(a)
Naphthalene	(a)	1,574	1,702	1,787	2,321	2,613	(a)
Ammonium sulphate	(a)	14,608	9,255	10,300	13,566	28,548	(a)
Creosote	6,056	2,955	3,778	2,557	5,443	5,163	(a)
Sweden—							
Tar (crude)	20,864	30,980	33,822	35,745	28,768	(a)	(a)
Other tar	24,159	24,378	28,814	25,727	30,758	(a)	(a)
Pitch	1,442	1,825	1,646	3,439	1,725	(a)	(a)
Ammonium sulphate	3,244	4,241	(a)	(a)	(a)	(a)	(a)
Benzol, toluol, etc.	3,084	3,995	4,067	3,825	3,847	(a)	(a)
Distillates, etc.	1,707	1,226	1,247	2,790	2,345	(a)	(a)
Switzerland—							
Tar (crude) (gas-works)	10,346	19,534	(a)	(a)	(a)	24,328	25,085
Benzol	1,858	2,450	(a)	(a)	(a)	(a)	(a)
Algeria—							
Tar (gas-works)	5,187	4,818	6,214	5,550	5,511	5,669	6,137
Tunis—							
Tar (gas-works)	1,080	1,488	1,281	1,388	1,392	1,302	1,250
United States—							
Coke-ovens—							
Tar*	2,550,721	3,146,045	3,157,073	2,873,536	3,161,832	3,398,766	3,008,075
Pitch	455,795	587,005	657,960	481,965	639,028	755,746	666,388
Sulphate equivalent of ammonia produced(b)							
Benzol*	664,033	814,564	830,083	756,970	825,503	890,869	795,224
do. motor*	365,763	402,939	499,996	409,138	514,888	576,164	517,048
do. other*	73,653	42,480	24,232	56,247	20,772	13,720	(g)
Naphthalene (crude)	31,967	43,919	47,240	31,618	44,522	58,534	47,725
Toluol and xylol*	73,549	109,565	116,776	114,167	126,574	141,825	126,197
Solvent naphtha*	14,106	20,986	18,406	16,016	19,240	19,347	15,003
Creosote*	123,503	160,707	138,828	96,740	149,642	170,524	156,438
Phenol*	(a)	(a)	3,760	2,818	3,544	3,556	3,429
Other light products	25,241	27,897	26,872	23,742	22,727	23,069	20,630
All sources (c)—							
Coal tar	2,633,611	3,219,397	3,218,205	2,920,782	3,201,547	3,411,261	3,011,987
Water gas and oil gas tar	942,030	1,076,068	1,149,701	990,555	1,022,457	572,692	377,274
Crude light oil (d)	887,967	931,207	890,680	792,390	897,033	979,443	856,447
Benzol, motor	85,556	52,965	28,263	62,798	38,177	13,720	(a)
do. other	454,510	558,840	579,533	444,193	586,743	777,197	767,377
Toluol	79,033	109,026	110,778	109,709	125,533	149,369	134,827
Xylol	26,539	27,000	26,118	26,680	31,163	36,755	33,245
Solvent naphtha	28,449	40,644	48,077	16,016	19,240	19,346	15,003
Other light oil derivatives	41,320	55,220	60,427	50,760	51,070	43,127	36,923
Naphthalene (crude)	106,157	140,500	146,230	105,339	128,800	158,813	112,210
Creosote oil	541,274	632,857	575,123	525,437	564,754	597,687	550,484
Coal tar (e)	40,145	48,893	42,838	39,534	40,577	37,645	46,564
Tar, refined (f)	74,581	83,808	91,739	120,312	2,013	206,697	117,594
Tar, road	664,637	682,085	554,081	644,530	644,538	612,598	477,321
Distillate products, others	50,833	87,155	93,746	150,802	143,635	161,059	164,036
Pitch of tar	1,783,000	1,294,000	1,528,000	1,055,000	1,333,000	1,562,000	1,463,000
Pitch of tar coke	83,000	90,000	58,000	52,000	57,000	40,000	32,000

(a) Information not available.

(b) Actual Ammonium sulphate produced was as follows (long tons): 1946—574,779; 1947—722,714; 1948—769,135; 1949—728,244; 1950—755,103; 1951—802,020; 1952—716,440.

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

(d) Including some material produced from petrole

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

(f) Used for paints, etc.

(g) Included with "Other light products"

PRODUCTION OF COAL BY-PRODUCTS (Cont.)

Producing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Brazil (b)—							
Tar (crude)	(a)	(a)	13,898	(a)	(a)	(a)	(a)
Road tar			9,111	(a)	(a)	(a)	(a)
Benzol, motor			2,405	(a)	(a)	(a)	(a)
do. other			334	(a)	(a)	(a)	(a)
Toluol and xylo			469	(a)	(a)	(a)	(a)
Solvent naphtha			44	(a)	(a)	(a)	(a)
Naphthalene			566	(a)	(a)	(a)	(a)
Creosote oil			78	(a)	(a)	(a)	(a)
Ammonium sulphate			4,209	(a)	(a)	(a)	(a)
Pitch			98	(a)	(a)	(a)	(a)
Carbolic acid	301	(a)	(a)	(a)	(a)		
Chile—							
Tar	(a)	14,407	16,153	17,006	16,378	17,561	17,397
Uruguay (gas-works)—							
Tar	1,605	1,741	1,806	1,847	2,020	1,979	2,141
Benzol	334	338	54	56	33	99	95
Tar oil	254	291	46	74	127	87	75
Pitch	234	206	169	307	422	253	239
Japan—							
Tar	71,099	119,853	168,051	235,997	288,955	390,513	378,561
Benzol (crude)	8,161	14,184	27,566	45,423	58,757	81,610	74,453
do. (other)	3,957	6,496	14,411	21,826	27,520	38,892	36,896
Toluol and xylo	520	1,193	1,783	3,437	5,031	5,622	5,492
Solvent naphtha	437	1,630	1,878	3,520	4,984	5,374	3,744
Creosote oil	12,578	24,944	47,277	64,544	69,032	82,484	94,484
Carbolic acid (crude)	413	898	1,606	2,362	3,260	4,701	4,559
Pitch	36,872	54,293	87,126	119,309	157,658	(a)	(a)
Naphthalene (crude)	2,374	2,728	7,134	12,118	14,362	18,708	22,369
do. (refined)	921	1,016	3,366	5,752	7,228	11,173	11,303
Anthracene	343	531	1,453	2,575	2,622	3,212	3,118
Ammonium sulphate	6,838	9,555	18,283	36,105	49,368	68,087	77,170
Turkey—							
Coke-ovens—							
Tar (crude)	12,968	—	(a)	(a)	15,405	14,929	(a)
Benzol (crude)	3,389	—	(a)	(a)	3,161	4,136	(a)
Road tar	377	324	(a)	(a)	(a)	(a)	(a)
Heavy oils	3,792	5,257	(a)	(a)	(a)	(a)	(a)
Naphthalene (crude)	204	—	—	—	748	(a)	(a)
Anthracene (crude)	318	241	(a)	(a)	(a)	(a)	(a)
Pitch	7,691	7,245	7,636	(a)	(a)	(a)	(a)
Naphthalene (refined)	340	441	526	449	340	159	(a)
Motor benzol	2,670	2,775	(a)	(a)	(a)	(a)	(a)
Other benzol	1,579	—	(a)	(a)	(a)	(a)	(a)
Solvent naphtha	44	93	(a)	(a)	(a)	(a)	(a)
Gas-works—							
Tar	2,636	2,901	3,127	2,967	2,985	(a)	(a)

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

(a) Information not available.

(b) Volta Redonda only.

EXPORTS OF COAL, COKE AND BY-PRODUCTS*
(Domestic Produce)
(Long tons)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Anthracite—							
smalls and graded ..	913,222	67,612	398,669	606,185	823,628	622,884	773,423
large	49,515	35,035	133,001	309,404	410,923	296,822	309,543
other	183	469	4,478	17,119	32,944	171,489	149,029
Bituminous—							
smalls and graded ..	1,959,875	490,037	5,335,887	6,230,309	5,432,948	1,780,410	4,100,898
unscreened	702,969	242,938	1,524,371	2,065,545	2,076,200	1,239,079	1,874,759
large	828,733	220,842	3,108,931	4,395,078	4,279,327	2,288,274	3,456,920
other	(a)	(a)	(a)	292,276	494,662	1,407,611	1,086,278
Bunkers	4,719,234	4,393,672	5,430,574	5,043,692	4,020,158	3,722,969	3,296,202
Coke, gas	79,286	4,067	634,752	795,616	865,630	222,727	507,690
do. other	397,665	68,313	227,004	873,003	1,339,709	672,810	887,432
Manufactured fuel ..	20,070	—	199,795	370,995	384,898	427,607	546,660
Tar	109,451	186,007	160,485	88,094	141,138	74,127	87,276
Pitch	179,008	216,469	232,196	241,269	282,128	352,109	357,515
Creosote oil	23,947	163,807	170,359	161,173	129,802	122,685	139,313
Other heavy coal-tar oils	4,457	5,435	3,250	3,861	3,201	6,473	4,106
Naphthalene	2,754	1,054	3,045	3,512	4,780	1,991	9,316
Carbolic acid—							
Crude	11	30	14	6	965	233	1,320
Crystals	394	23	36	1,563			
Cresylic acid	13,880	11,119	11,988	6,756	15,807	17,041	7,794
Benzol	4,832	2,274	213	90	44,564	163,639	123,742
Anthracene	—	—	—	3	1	—	2
Other coal-tar products	11,928	10,348	9,340	6,715	(a)	(a)	(a)
Gibraltar—							
Coal (bunkers) (b) ..	200,000	190,000	280,000	290,000	200,000	170,000	70,000
Malta—							
Coal (bunkers on merchant ships) (b) ..	3,672	4,112	8,717	2,888	1,853	1,445	1,033
Kenya—							
Coal (bunkers) (b) ..	29,899	39,099	24,141	27,688	18,076	2,949	1,305
Mauritius—							
Coal (bunkers) (b) ..	11,092	10,989	10,206	7,295	5,342	4,852	4,786
Nigeria—							
Coal	177,528	135,699	83,120	63,332	1,480	89,872	1,132
do. (bunkers)	10,854	20,937	14,186	(a)	1,238	8,733	340
do. do. (b)	2,809	—	—	—	—	—	—
Sierra Leone—							
Coal (bunkers) (b) ..	92,392	77,469	45,433	33,571	18,491	(a)	—
Southern Rhodesia—							
Coal	649,922	604,463	704,595	728,547	784,478	877,776	956,091
Coke	68,598	55,200	62,397	47,622	53,996	58,736	69,024
Union of South Africa—							
Coal	3,145,590	2,596,060	1,689,238	1,824,716	2,527,299	1,688,441	830,248
do. (bunkers)	712,896	605,216	560,678	580,432	371,780	239,006	153,239
Coke	49,879	39,321	11,462	14,443	42,401	41,410	41,371
Tar and pitch	5,515	8,388	5,742	2,891	2,766	2,856	(a)
Canada—							
Coal	762,430	630,721	1,127,631	379,468	340,071	374,983	335,046
do. (bunkers) (c) ..	197,240	159,725	105,885	107,029	85,871	93,053	71,546
do. do. (d)	309,271	381,062	365,705	321,379	261,720	246,771	292,872
Lignite	7,649	7,269	9,210	6,285	12,573	13,484	12,239
Coke	43,921	95,136	149,374	243,850	308,071	144,377	270,503
Tar and pitch	11,331	6,117	344	18	14	3,185	3,390
Creosote oil	412	151	3	—	41	32	8,397
Other coal tar oils ..	13,565	10,087	18,804	19,854	14,940	11,252	13,534

* For Ammonium sulphate, etc. see Nitrogen Compounds, pages 205-206.

(a) Information not available.

(b) Foreign coal (see imports).

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

(d) Foreign coal, "ex-warehouse for ships' stores". (See imports.)

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

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES (Cont.)							
British West Indies—							
Bermuda—							
Coal (bunkers) (c) ..	(a)	(a)	3,425	1,240	900	(a)	(a)
British Guiana—							
Coal (bunkers) (c) ..	97	11	—	3	3	10	6
Jamaica—							
Coal (bunkers) ..	(b) 26,284	(b) 72,929	(b) 34,966	(b) 38,732	(b) 14,973	(b) 20,819	(a)
Trinidad and Tobago—							
Coal (bunkers) (c) ..	59,819	81,172	55,742	33,483	18,482	16,769	18,736
Aden—							
Coal (bunkers) (c) ..	285,542	309,365	193,397	202,488	130,794	88,516	30,514
India—							
Coal	463,522	547,631	934,521	1,360,315	910,645	1,878,834	2,499,748
do. (by land) (e) ..	(a)	(a)	(a)	(a)	(a)	407,316	586,253
do. (bunkers—domestic produce)	551,499	495,274	382,122	410,861	231,257	291,685	286,329
do. (bunkers—foreign produce)	125	—	—	—	—	—	515
Coke	983	2,895	13,767	2,304	7,699	22,937	59,030
Malaya (including re-exports)—							
Coal	2,002	1,581	323	105	1	1,209	357
do. (bunkers) (c) ..	(a)	120,236	71,974	66,307	44,286	37,297	32,593
Coke	2,227	214	351	348	273	658	316
Tar and pitch ..	234	241	272	247	254	1,222	270
Ceylon—							
Coal (bunkers) (c) ..	137,994	104,441	112,400	109,111	80,644	68,803	32,859
Cyprus—							
Coal (bunkers) (c) ..	96	163	638	560	225	329	295
Hong Kong (re-exports)—							
Anthracite	4,999	85	2,768	19,406	53,107	10,974	4,468
Bituminous	1,442	3,080					
Briquettes	—	—	1,361	356	398	431	74
Coke	211	223					
Australia—							
Coal	88,598	48,364	49,904	48,247	67,391	110,043	176,828
do. (bunkers) (d) ..	228,977	405,428	283,354	293,707	135,059	69,299	54,207
Coke	40,401	7,739	5,348	2,523	2,920	741	7,432
Carbolic acid (d) ..	(a)	(a)	23	353	652	403	651
Other coal tar oils ..	(d) 1,541	(d) 3,435	(d) 2,746	3,579	2,460	3,255	2,911
New Zealand—							
Coal	2,558	4,068	2,420	7,032	2,983	3,176	8,730
do. (bunkers) ..	24,809	23,967	16,493	14,543	2,083	2,889	5,975
Coke	7	11	19	323	1,134	292	344
Tar	49	9	17	13	138	59	6
Irish Republic—							
Coal (bunkers) (c) ..	3,089	2,023	3,711	1,843	1,042	399	164
Coke	—	—	1,454	—	—	—	—
Creosote, etc.	(a)	(a)	(a)	(a)	450	1,976	1,140
FOREIGN COUNTRIES							
Austria—							
Bituminous	(a)	(a)	(a)	(a)	—	11	650
Brown coal	(a)	(a)	(a)	(a)	1,084	2,207	64
Coke	(a)	20,061	18,663	14,586	15,944	168	—
Tar	(a)	(a)	—	—	8,302	2,250	7,558
Naphthalene	(a)	(a)	(a)	976	1,318	1,756	657
Carbolic acid	(a)	(a)	(a)	(a)	(a)	(a)	1,432
Light tar oils	(a)	(a)	—	—	—	—	3,942
Heavy tar oils	(a)	(a)	—	—	—	—	189
Pitch	(a)	(a)	—	—	—	—	5,252

(a) Information not available.

(b) Amount imported for bunkers. Figures of actual shipments are not available.

(c) Foreign coal (see imports).

(d) Years ended June 30 of that stated. (e) Years ended March 31 of that following.

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

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952							
FOREIGN COUNTRIES (Cont.)														
Belgium-Luxemburg E. U.—														
Coal	} 304,827	827,683	{ 606,776	1,262,332	2,727,791	1,861,427	2,390,310							
do. (bunkers) (b) ..														
Coke								471,480	684,884	692,408	392,126	334,631	348,915	840,964
Briquettes								15,803	72,103	45,440	12,648	15,126	273,945	290,201
Brown coal briquettes ..								(a)	(a)	261	46	—	—	20
Tar								(a)	(a)	1,573	4,758	5,064	1,592	332
Naphthalene								(a)	(a)	8,659	5,739	9,109	9,870	11,440
Distillates								(a)	(a)	2,265	3,019	20,176	27,314	26,016
Bulgaria—														
Coal	4,611	(a)	(a)	(a)	(a)	(a)	(a)							
Czechoslovakia—														
Coal	24,590	34,035	(c) 438,250	}	(a)	(a)	(a)							
Brown coal	308,589	941,987	(c) 942,665											
Coke	270,503	567,846	(c) 840,114											
Briquettes	20	3,076	(c) 20											
Tar and pitch	67,160	31,813	(c) 19,412											
Benzol, etc.	3,600	1,172	(c) 2,830											
Crude naphthalene	1,023	1,779	(c) 5,794											
Crude carbolic acid	248	1,606	(c) 3,261											
Cresol	29	208	(c) 418											
Creolin, etc.	818	1,612	(c) 1,498											
Denmark—														
Tar and pitch	79	87	24	124	6,486	5,691	11,785							
France—														
Anthracite	} 299,264	{ 33,588	14,570	9,959	16,554	17,211	3,790							
Bituminous								284,735	3,439,185	5,247,756	6,161,423	5,816,503	5,491,531	
Brown coal								462	12,984	1,061	381	253	2,526	1,277
Coke								45,129	47,315	419,514	404,811	277,346	254,439	151,621
Briquettes								78,045	106,641	12,698	25,082	47,265	70,833	54,981
Brown coal briquettes ..								1,083	—	2,058	718	2,289	5,268	1,236
Coal, coke and briquettes—														
Bunkers (domestic produce)								(a)	(a)	(a)	(a)	(a)	53,385	18,047
do. (foreign produce)	(a)	(a)	(a)	(a)	(a)	184,083	137,635							
Tar and pitch	1,317	4,715	25,061	5,416	3,480	32,452	4,335							
Benzol, etc.	84	148	2,680	276	1,200	10,038	18,477							
Naphthalene	926	1,296	1,025	2,178	10,101	8,264	10,545							
Carbolic acid, etc.	77	99	70	10	108	390	166							
Carbolineum	(a)	(a)	1,735	885	1,422	1,369	1,353							
Anthracene	97	61	1	25	206	258	203							
Coal tar oils	110	454	531	244	931	15,208	22,674							
Germany (Federal)—														
Coal	} 12,884,000	f 19,999,000	{ 9,173,908	12,654,798	15,144,844	12,856,466	11,877,025							
do. (bunkers for foreign ships)								(e)						
Coke										129,674	326,037	346,182	351,720	859,454
Coal briquettes										6,736,716	7,663,176	8,018,510	9,734,545	10,474,924
Brown-coal briquettes ..										123,036	98,492	244,842	241,086	262,915
Tar and pitch										1,528,237	1,575,199	1,565,681	1,573,720	1,465,537
Naphthalene								(a)	(a)	390	34,123	107,453	132,076	164,052
Carbolic acid										3,349	7,040	30,302	15,881	20,774
Cresol			—	124	1,599	(d) 149	(a)							
Light coal-tar oils, etc. ..			1	103	2,831	(d) 1,249	(a)							
Heavy coal-tar oils, etc. ..			3,152	792	1,092	14,394	2,405							
			17,299	18,430	86,630	75,675	106,219							

(a) Information not available.

(b) Bunkers for foreign ships only.

(c) January to October only.

(d) January to September only.

(e) British and French Zones only.

(f) British, French and Russian Zones.

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

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Hungary—							
Coal	80,705	130,093	(a)	(a)	(a)	(a)	(a)
Lignite							
Coke							
Briquettes							
Italy—							
Coal (incl. bunkers) ..	(a)	4,508	7,130	8,149	3,167	2,495	7,267
Coke		—	50,413	116,846	58,983	14,839	222,610
Tar and tar oils		9	2	4,004	821	198	4
Pitch		(a)	(a)	(a)	(d) 8,384	20,394	21,714
Naphthalene	(a)	—	—	—	2	102	3
Netherlands—							
Coal	351	46,685	35,173	17,903	22,550	11,607	16,053
do. (bunkers) (b) ..	184,357	246,877	255,415	326,771	371,147	342,807	261,980
Brown coal	(a)	(a)	35,685	2,772	266	23,074	11,306
Coke	436,206	524,613	881,927	941,912	1,093,039	1,177,088	1,376,333
Briquettes	116	113	439	—	317	355	241
Brown coal briquettes ..	a)	(a)	4,390	5,620	9,894	10,989	25,830
Tar	15	1,276	677	1,486	1,685	1,039	467
Creosote	3,720	9,225	17,791	(a)	29,423	26,865	36,881
Naphthalene	1,880	3,179	5,320	8,286	7,865	8,515	5,201
Anthracene	3,237	1,381	1,175	1,115	1,799	3,871	3,386
Carbolic acid	—	22	—	—	1,549	1,947	1,537
Benzol	2,521	10,511	11,782	16,900	13,813	12,981	14,664
Toluol and xylo	23	29	394	—	727	22	1,690
Solvent naphtha	14	—	35	9	101	195	380
Norway—							
Coal	—	33	4,951	—	14	(a)	(a)
Tar	4	4	1	—	—	1,279	1,441
Pitch	43	32	5	19	191	268	356
Poland—							
Bituminous	13,270,447	17,609,908	24,361,553	(a)	(a)	(a)	(a)
Brown coal	1,174,869	4,171,882	4,193,280				
Coal (bunkers) (c) ..	317,899	400,108	563,560				
Coke	1,411,746	1,423,084	1,542,382				
Briquettes	4,921	8,303	1,674	—	—	—	—
Naphthalene	1,575	841	3,393	—	—	—	—
Benzol	10,563	8,923	10,386	—	—	—	—
Creosote, etc.	1,022	(a)	(a)	—	—	—	—
Portugal—							
Coal	4	137	116	1,227	152	589	475
do. (bunkers) (c) ..	28,252	18,280	21,541	15,364	8,266	678	2,835
Tar and pitch	102	80	97	194	76	150	172
Spain—							
Anthracite	30,646	17,242	7,878	3,407	21,234	14,763	(a)
Bituminous	357,741	222,912	84,048	16,952	40,449	96,766	(a)
Other coal	13	214	443	—	858	37	(a)
Coke	568	555	733	858	1,206	381	(a)
Briquettes	2,737	59	—	—	59	695	(a)
Carbolic acid, naphthalene, etc.	95	149	97	171	62	72	(a)
Tar and pitch	20	5	6	27	119	28	(a)
Spitzbergen—							
Coal (including bunkers)	61,741	276,751	413,686	522,922	505,544	707,877	(a)
Sweden—							
Coal	—	793	—	—	30	43	499
Coke	—	1,000	—	—	26,469	1,373	
Tar, pitch, etc.	3,570	8,205	10,893	4,690	18,301	9,512	9,922
Benzol	1,780	2,150	1,550	106	2,595	979	372
Carbolic acid, etc. ..	24	3	5	—	—	1	6
Toluol and xylo	844	547	113	237	4,958	1,609	1,707
Yugoslavia—							
Bituminous	(a)	(a)	(a)	(a)	104,077	60,429	60,169
Brown coal	(a)	(a)	(a)	(a)	26,204	186,582	93,237
Lignite	(a)	(a)	(a)	(a)	—	1,823	509

(a) Information not available.
 (b) Including imported coal.

(c) Bunkers for foreign ships.
 (d) July to December only.

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

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Switzerland—							
Coal	99	197	34	334	322	217	1
Coke	—	9	—	976	25	—	788
Briquettes	—	1,544	309	197	546	573	1,107
Tar and pitch	2,524	3,024	5,098	4,679	2,561	2,391	2,176
Creosote, etc.	113	604	991	976	55	801	—
Naphthalene, etc.	675	840	1,129	1,295	3,016	2,978	733
Algeria—							
Coal	(a)	33,324	30,019	40,873	44,407	78,077	73,318
do. (bunkers)	85,790	307	68	482	176	1,181	214
do. do. (b)	112,769	90,910	51,435	60,435	(a)	114,518	64,218
Coke	—	3	—	90	10	74	64
Briquettes	21	—	98	—	—	9	—
do. (bunkers) (b)	—	107	163	400	21	307	75
Tar	144	12	524	853	—	159	407
Angola (b)—							
Coal	—	57	(a)	(a)	(a)	(a)	(a)
Tar	252	(a)	(a)	(a)	(a)	(a)	(a)
Canary Islands—							
Coal	3	7	1	2,143	41	—	(a)
do. (bunkers) (b)	55,505	63,434	78,776	87,847	61,831	49,497	(a)
Ceuta—							
Coal	6,082	5,286	8,179	1,388	3,314	2,328	(a)
do. (bunkers) (b)	126,851	158,525	112,247	127,371	147,240	80,505	(a)
Egypt—							
Coal (bunkers for foreign ships) (b)	59,293	74,509	69,437	53,347	37,332	28,837	(a)
Coke	2	1	1	3	—	99	—
Tar and Pitch	50	104	5	15	—	1	(a)
Madagascar—							
Coal (bunkers)	15,729	11,964	3,289	56	3,142	88	—
Morocco (French)—							
Anthracite	100,200	99,688	127,745	153,222	144,512	234,369	195,963
Other coal	50,377	2,804	(a)	454	—	(a)	—
Briquettes	12,470	18,225	7,236	3,896	2,590	(a)	18,932
Mozambique—							
Coal (incl. bunkers)	8,341	9,509	8,184	3,096	5,834	24,707	(a)
Mexico—							
Anthracite	—	51	327	342	173	130	211
Other coal	3,864						
Coke	—	—	—	—	4,181	1,571	440
Tar	(a)	—	—	—	—	—	—
Naphthalene	11	51	(a)	(a)	(a)	(a)	(a)
Creosote	—	—	—	—	224	—	(a)
United States—							
Anthracite	5,787,413	7,598,210	5,960,638	4,413,098	3,474,615	5,320,692	4,100,054
Bituminous	36,783,373	61,309,788	41,009,047	24,858,979	22,739,646	50,648,353	42,532,919
do. (bunkers)	1,232,602	1,508,329	943,855	780,383	640,614	794,693	649,107
Coke	1,099,399	747,533	630,527	489,514	355,220	916,723	707,259
Briquettes	145,838	222,107	185,612	149,232	156,936	150,696	118,559
Tar and pitch	328,425	292,678	159,124	149,762	49,646	76,867	70,182
Benzol	23,429	5,156	5,760	4,332	4,307	1,121	666
Creosote	1,311	4,134	3,189	2,879	1,593	1,590	3,702
Toluol and xylol	(c) 9,730	(c) 11,271	(c) 13,106	—	—	—	—
Carbolic acid	11,021	9,178	13,419	10,242	6,272	9,418	9,951
Argentina—							
Coal	70,147	(a)	(a)	(a)	(a)	(a)	(a)
Coke	6	(a)	(a)	(a)	(a)	(a)	(a)
Tar and pitch	1	(a)	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

(b) Foreign coal (see imports).

(c) Toluol only.

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

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Chile—							
Coal (including bunkers)	38,745	14,423	33,708	61,284	80,705	50,151	69,000
Coke	169	202	59	—	(a)	(a)	(a)
Colombia—							
Coal	10	(a)	(a)	(a)	(a)	(a)	(a)
Peru—							
Coal	55,398	47,277	24,820	16,076	} 56,630	40,646	40,675
do. (bunkers) ..	3,900	1,376	14	50			
China—							
Coal (including bunkers)	41,669	15,333	18,976	(a)	(a)	(a)	(a)
Coal dust	8,088	756	—	(a)	(a)	(a)	(a)
Coke	5	1	—	(a)	(a)	(a)	(a)
French Indo-China—							
Coal (including bunkers)	239	23,822	67,884	71,469	57,596	199,320	209,612
Indonesia—							
Coal	—	—	27,250	27,538	61,206	114,339	(a)
Japan—							
Coal	786,731	803,112	1,086,564	767,681	499,666	845,433	(a)
Tar and pitch ..	1,352	2,156	148	(a)	16,437	(a)	(a)
Portuguese India—							
Coal	—	40	—	—	(a)	(a)	(a)
Syria and Lebanon—							
Coal	3,036	(a)	(a)	(a)	(a)	(a)	(a)
Coke	—	(a)	(a)	(a)	(a)	(a)	(a)
Tar	219	(a)	(a)	(a)	(a)	(a)	(a)
Turkey—							
Coal	174,063	110,813	1,109	1,458	335	25,207	130,742

(a) Information not available.

IMPORTS OF COAL, COKE AND BY-PRODUCTS*

(Less Re-exports)

(Long tons)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Coal	7,211	694,438	80,224	476	4,834	1,225,544	319,552
Coke	3,200	2,212	—	—	1	4	19,223
Manufactured fuel	—	55	10	—	2	2	135
Tar and pitch	1,798	2,008	1,689	2,854	3,033	2,016	2,021
Other heavy coal-tar oils	5	(d) 779	14	(d) 4	(a) —	(a) —	(a) —
Naphthalene	20	—	22	—	—	16	4
Carbolic acid	2,744	1,930	5,670	918	1,506	2,223	2,722
Benzol	372	(d) 281	—	—	—	—	—
Channel Islands—							
Anthracite	8,045	11,725	8,599	15,165	13,996	12,665	(a) —
Bituminous	149,051	197,227	175,425	193,859	220,061	237,292	(a) —
Coke	796	31	8,111	21,883	27,577	24,548	21,306
Creosote	33	32	19	37	18	18	(a) —
Gibraltar—							
Coal and coke (b)	210,000	200,000	294,000	305,350	208,120	179,500	78,505
Malta—							
Coal (c)	4,581	17,554	18,997	17,262	20,501	17,613	12,085
Anglo-Egyptian Sudan—							
Coal	45,021	29,544	71,072	71,260	53,353	59,174	47,144
Coke	380	—	1,892	498	888	410	(a) —
Pitch	145	—	2	1	—	—	(a) —
Tar	651	138	481	117	48	7	(a) —
Tar oils	13	10	1,033	510	515	368	(a) —
Gambia—							
Coal, coke and patent fuel	1,205	905	800	—	5	173	—
Tar and pitch	6	12	252	5	9	9	4
Gold Coast—							
Coal	107,243	87,809	98,710	129,767	61,892	160,725	147,060
Coke	245	505	246	450	298	696	648
Patent fuel	—	—	56	—	—	—	—
Tar and pitch	1,878	2,035	3,566	4,627	3,880	1,805	2,845
Kenya (e)—							
Coal (c)	192,637	219,416	159,960	59,288	41,640	19,001	26,225
Coke	687	846	659	1,205	1,523	1,440	2,079
Creosote, etc.	95	51	107	143	138	313	265
Tar	9,213	3,018	166	146	9	31	41
Tar oils	(a) —	(a) —	(a) —	37	37	44	26
Mauritius—							
Coal (c)	50,050	51,425	63,799	40,520	48,261	24,232	26,659
Coke	527	512	486	520	289	628	362
Tar and pitch	(a) —	36	(a) —	13	6	36	502
Nigeria—							
Coal (c)	1,770	124	1,179	153	60,495	3	26,356
Coke	427	666	869	547	1,197	840	364
Patent fuel	(£13)	2	—	—	1	1	2
Tar and pitch	4,287	3,363	2,216	503	859	1,737	2,160
Northern Rhodesia—							
Coal	391,786	487,805	565,608	562,737	637,988	696,181	756,379
Coke	3,029	5,363	5,762	6,366	6,025	7,692	12,839
Tar and creosote oil	18	15	23	28	53	56	42
Tar and pitch	174	85	157	197	253	468	737

* For ammonium sulphate, etc., see Nitrogen Compounds, pages 207-212.

(a) Information not available.

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

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

(d) Excess of re-exports.

(e) Including Uganda up to 1948 inclusive.

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

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES (Cont.)							
Nyasaland—							
Coal	10,538	11,048	14,842	12,950	24,010	23,132	30,860
Coke	63	41	109	120	144	152	400
Tar and pitch	(a)	123	81	627	1,667	784	1,009
St. Helena—							
Coal	190	292	293	202	214	61	20
Sierra Leone—							
Coal (h)	125,036	93,975	69,455	61,820	39,722	9,985	—
Coke	171	—	118	215	5	—	4
Tar and pitch	130	73	328	116	286	4,954	666
Southern Rhodesia—							
Coal	1,264	1,463	2,196	2,642	3,582	6,902	6,347
Coke	73	69	40	57	—	—	440
Tar and pitch	600	759	3,621	2,273	1,233	2,113	1,564
South West Africa—							
Coal	11,902	18,621	23,448	16,529	25,896	26,311	(a)
Coke	17	104	15	70	53	13	(a)
Tanganyika—							
Coal	20,930	35,424	53,555	45,284	56,605	50,917	71,662
Coke	429	206	518	770	207	986	12
Creosote, etc.	78	41	124	128	102	112	151
Tar	95	317	233	126	37	42	31
Tar oils	(a)	(a)	8	3	1	11	31
Uganda—							
Coal	(b)	(b)	(b)	42	25	11	16
Coke				213	132	198	132
Creosote, etc.				95	192	102	170
Tar				41	8	6	14
Tar oils				11	9	10	6
Union of South Africa—							
Coal	64,230	67,968	62,869	66,041	37,557	48,148	(a)
Coke	172	81	11	—	55	—	(a)
Naphthalene	5	44	21	4	49	24	(a)
Tar and creosote	1,030	1,214	2,214	2,648	2,155	2,358	(a)
Zanzibar—							
Coal	7,690	9,641	15,537	10,057	6,866	100	5,552
Canada (c)—							
Anthracite	4,092,711	3,785,940	4,656,084	3,507,892	3,822,422	3,439,390	3,476,922
do. dust	42,456	36,990	26,806	14,550	4,705	1,173	634
Bituminous	18,847,450	21,592,192	22,495,936	15,956,586	19,970,159	20,233,343	18,483,427
do. (f)	309,271	381,062	365,705	321,379	261,720	246,771	292,872
Brown coal	154	181	13,064	14,774	6,671	8,165	6,685
Briquettes	162,706	219,355	275,672	166,938	170,655	151,926	138,926
Coke	714,990	511,482	485,975	373,446	301,715	538,521	480,632
Creosylic acid	125	161	274	79	206	915	224
Benzol	632	10	116	2,551	4,110	2,234	134
Tar	16,779	15,431	10,068	3,344	30,101	37,084	22,024
Pitch	1,716	12,921	29,696	20,199	15,732	36,672	29,626
Naphthalene	464	1,033	519	660	758	489	814
Carbolic acid, etc.	2,824	11,241	22,596	11,777	23,227	20,420	17,876
Newfoundland (d)—							
Anthracite	22,039	53,956	20,321	(d)	(d)	(d)	(d)
Other coal	438,276	521,669	416,313				
Coke	(e) 421	(e) 3,482	68,764				
Tar	916	521	396				
Pitch	104	240	117				
Creosote	136	261	856				
British Guiana—							
Coal (g)	5,600	6,405	5,250	3,998	291	3,281	1,894
Coke	140	131	192	144	126	309	141
Patent fuel	—	—	1,000	321	3,050	2,007	3,000

(a) Information not available.

(b) Included with Kenya.

(c) Including Newfoundland from April 1, 1949.

(d) Years ended March 31 of year following that stated. Included with Canada from April 1, 1949.

(e) Including charcoal.

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

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

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

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

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES (Cont.)							
British West Indies—							
Bahamas—							
Coal	93	75	29	32	16	3	10
Barbados—							
Coal, coke, and patent fuel	1,617	3,115	2,134	1,491	2,009	2,093	1,105
Bermuda—							
Bituminous (f) ..	2,686	10,600	3,795	4,363	1,389	1,081	2,480
Coke	5	366	—	—	40	(a)	(a)
Grenada—							
Coal	3	1	4	10	3	—	—
Coke	—	—	11	—	—	5	10
Jamaica—							
Coal (b)	52,284	85,464	39,085	44,993	14,966	24,237	(a)
Coke	157	148	445	479	706	583	(a)
Tar and pitch ..	2	10	19	11	20	18	(a)
Leeward Islands—							
Coal, coke and patent fuel	2,076	4,021	21	5,201	(d) 13	5,747	1,397
St. Lucia—							
Coal	—	3	79	56	57	38	25
Coke	2	2	—	—	—	—	—
Tar	2	1	25	4	5	4	5
St. Vincent—							
Coal	(a)	17	14	(a)	(a)	(a)	(a)
Trinidad and Tobago—							
Coal (b)	59,860	86,654	58,960	38,676	26,007	9,583	13,924
Coke	30	—	214	228	39	227	236
Patent fuel	—	—	5	1,080	6	—	(a)
Tar and pitch ..	150	118	90	135	84	(a)	(a)
Falkland Islands—							
Coal	4,568	2,866	2,500	1,471	1,796	2,793	818
Coke	87	174	41	40	26	83	(a)
British Honduras—							
Coal and coke ..	82	24	21	42	13	18	22
Tar and pitch ..	227	4	9	4	13	31	4
Aden—							
Coal (b)	275,114	327,603	227,349	230,077	109,061	115,178	31,809
Coke	20	50	29	50	—	220	56
Tar and pitch ..	121	—	15	(e) 70	64	52	173
Naphthalene	357	606	457	522	297	39	413
India (total imports)—							
Coal	8,345	200	10	4	1,425	13	423
Coke	10	—	750	—	—	—	—
Tar and pitch ..	376	431	657	1,162	386	712	149
Naphthalene	146	62	39	106	15	19	19
Carbolic acid	39	6	27	163	46	19	130
Malaya (total imports)—							
Coal (b)	57,457	211,165	125,820	135,648	93,627	152,475	176,882
Coke	392	2,346	7,337	4,762	5,695	13,069	3,050
Tar and pitch ..	994	1,261	1,266	986	1,650	1,054	445
Ceylon—							
Coal (c)	342,966	319,668	343,928	310,655	367,792	237,639	370,552
Coke	319	53	1,104	1,474	654	918	723
Tar and pitch ..	115	409	277	158	46	94	55
Cyprus—							
Coal (c)	1,110	1,047	7,390	3,851	1,492	647	3,235
Coke and briquettes ..	270	379	353	497	413	645	435
Tar and pitch ..	11	6	2	13	18	14	15
Naphthalene	20	38	41	14	41	9	25

(a) Information not available.

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

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

(d) Incomplete.

(e) Excess of re-exports.

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

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

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952	
BRITISH COUNTRIES (Cont.)								
Hong Kong (total imports)—								
Anthracite	20,087	16,390	} 325,573	421,718	317,124	277,623	305,594	
Bituminous	12,114	206,816						
Coke	517	1,829	12,720	6,472	2,753	3,664	2,608	
Tar	(a)	(a)	11	7	18	904	(a)	
Tar oils	(a)	(a)	(a)	1,721	222	5	26	
Pakistan (b)—								
Coal	} (a)	(a)	(a)	(a)	(a)	} 58,339	(f) 128	
do. (g)							407,316	586,253
Tar and pitch							307	657
Naphthalene							17	798
Australia—								
Coal	1,343	2,600	32,927	442,226	636,219	352,734	272,352	
Coke (e)	—	—	862	—	21,269	37,655	6,508	
Naphthalene	45	8	10	2	35	48	47	
Toluol	—	—	—	1	33	—	64	
Tar and pitch	(e) 17	(e) 6	(e) 6	(e) 19	(e) 36	50	767	
Tar oils	49	—	56	(c) 746	(e) 118	83	90	
Fiji—								
Coal	20,150	21,997	21,498	25,828	9,750	18,659	22,889	
Coke	402	442	418	354	381	355	540	
Tar and bitumen	477	1,421	746	686	1,447	292	1,343	
New Guinea (e)—								
Coal and coke	(a)	(a)	(a)	478	336	1,866	425	
New Zealand—								
Coal	27,185	93,411	62,657	78,626	45,186	27,563	1,345	
Coke	3,239	2,982	2,633	4,263	2,750	1,431	3,821	
Tar	94	586	2,776	127	2	198	799	
Pitch	621	1,260	751	579	794	86	1,215	
Benzol, toluol, etc.	101	123	42	187	214	110	246	
Naphthalene (£ N.Z.)	(£1,761)	(£2,508)	—	8	8	9	103	
North Borneo—								
Coal and coke	(a)	(a)	21	32	21	87	121	
Papua (e)—								
Coal, coke and charcoal	(a)	(a)	(a)	342	(£41,893)	218	(a)	
Solomon Islands (b)—								
Coal	—	—	50	8	1	516	(a)	
Sarawak—								
Coal and coke	—	260	1	10	11	11	16	
Tar	(a)	(a)	63	67	132	114	754	
Western Samoa—								
Coal and coke	(a)	(a)	12	15	11	23	9	
Irish Republic—								
Anthracite	42,686	17,254	55,252	54,323	42,910	49,029	65,126	
Bituminous (d)	1,229,367	1,486,570	1,640,391	1,578,023	1,785,759	1,987,323	1,633,652	
Coke	74,557	31,132	24,199	23,463	40,455	24,897	18,869	
Tar and pitch	30,484	23,818	7,368	6,340	6,296	14,336	14,640	
Creosote, etc.	212	1,750	2,592	4,838	5,267	4,368	4,481	
Tar and bitumen mixture	16,317	26,572	36,390	19,488	21,327	26,421	18,613	
Benzol	9	20	23	47	40	27	19	
FOREIGN COUNTRIES								
Austria—								
Coal	} 1,866,083	{ 1,333,157	3,034,767	4,277,651	4,215,494	4,110,296	3,699,899	
Brown coal			441,954	781,899	705,065	438,968	537,548	356,956
Coke			107,921	212,449	359,378	252,588	290,082	250,828
Briquettes			498,266	543,974	664,162	558,109	799,435	646,110
Light coal-tar oils			(a)	(a)	121	62	778	1,299	73
Heavy coal-tar oils	(a)	(a)	850	3,061	3,275	1,531	235	
Carbolic acid	(a)	(a)	(a)	390	787	546	604	
Tar, pitch, etc.	(a)	(a)	1,981	4,012	6,113	10,945	4,357	

(a) Information not available.

(c) Excess of re-exports.

(e) Years ended June 30 of that stated.

(g) Exports from India to Pakistan by land.

(b) Years ended March 31 following that stated.

(d) Includes coal for bunkering purposes. See exports.

(f) Excluding imports on Government account.

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

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Belgium-Luxemburg E.U.—							
Coal	2,304,206	5,572,931	3,054,434	1,158,456	886,162	2,340,353	1,973,699
do. coke	1,217,854	1,242,837	2,742,373	2,240,111	2,410,940	3,048,096	3,168,959
do. briquettes	52,004	8,520	338	875	2,151	5,509	2,083
Brown coal	} 389,005	(a)	4,712	2,345	67	1,171	136
do. do. coke		(a)	99	(a)	5,170	7,362	86
do. do. briquettes		171,137	203,629	207,761	189,091	242,938	216,334
Tar		(a)	(a)	14,726	6,451	11,024	34,174	10,937
Naphthalene	(a)	(a)	373	1,092	8,365	4,144	4,553
Asphalt	(a)	(a)	3,440	3,987	5,741	5,182	6,866
Bulgaria—							
Coal	65	} (a)	(a)	(a)	(a)	(a)	(a)
Coke	4,590						
Benzol	79						
Carbolic acid	78						
Naphthalene	236						
Creosote, etc.	—						
Czechoslovakia—							
Coal	106,543	945,699	(b) 1,722,477	} (a)	(a)	(a)	(a)
Brown coal	42,637	62,003	(b) 10,798				
Coke	297	20,521	(b) 3,558				
Briquettes	1,793	—	(b) —				
Tar and pitch	65	4,043	(b) 109				
Benzol, etc.	219	1,137	(b) —				
Carbolic acid	147	27	(b) 31				
Denmark—							
Coal	2,522,333	3,379,989	2,685,293	3,052,421	3,941,613	4,478,486	4,025,682
Brown coal	—	—	—	—	—	15	—
Coke	1,149,402	626,788	790,244	1,274,402	1,489,984	1,037,681	1,635,630
Briquettes	—	—	—	—	37,460	20,896	83,514
Brown coal briquettes	62,094	249,511	2,520	233,479	256,164	104,503	189,113
Tar	5	—	514	—	15	10	43
Pitch	974	2	89	28	142	264	167
Carbolineum	46	3	2	—	(a)	(a)	(a)
Benzol	2,674	1,074	637	625	1,096	977	896
Toluol	2,121	785	830	915	1,374	1,090	954
Carbolic acid	240	178	268	233	85	368	135
Finland (total imports)—							
Anthracite	8,957	1,075	2,492	4,600	1,906	46,378	} 2,206,098
Other coal	676,776	1,278,521	1,968,346	929,867	1,435,277	1,959,906	
Coke	237,415	195,707	405,989	246,569	461,645	339,783	
Tar	156	2,382	1,541	1,440	1,284	1,084	
Carbolic acid, creosote and cresol	310	1,891	1,543	2,778	2,844	4,158	(a)
Naphthalene	59	17	17	83	140	51	(a)
Benzol	261	763	1	293	391	192	(a)
Carbolineum	15	271	323	212	455	464	(a)
France—							
Anthracite	431,498	512,353	1,032,610	1,162,367	559,958	1,347,206	1,257,824
Bituminous	8,428,770	12,208,208	12,303,462	12,983,962	6,814,248	8,478,873	9,006,256
Lignite	7,296	33,206	40,848	2,886	—	302	226
Coke	1,183,962	1,895,342	3,075,239	3,918,850	2,604,172	3,502,508	4,229,711
Coal briquettes	26,909	3,659	23,061	2,686	246	108,158	140,744
Brown-coal briquettes	608,524	227,368	261,321	285,856	378,057	448,153	390,834
Tar and pitch	437,671	519,193	454,170	417,118	472,441	395,425	465,426
Naphthalene	274	—	709	11	—	68	—
Carbolic acid, etc.	251	49	153	425	694	632	2,156
Anthracene	1,588	380	934	1,112	321	176	328
Benzol, etc.	15,554	14,541	7,533	2,375	809	1,633	1,278
Heavy coal-tar oils	1,884	3,449	3,148	6,255	10,494	1,187	95

(a) Information not available.

(b) January to October only.

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

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Germany (Federal)—							
Coal	(a)	(a)	1,140,531	2,103,064	4,002,434	9,498,417	11,605,594
Brown coal	(a)	(a)	785,480	947,129	1,005,889	486,472	586,230
Coke	(a)	(a)	47,486	69,270	235,000	200,992	430,798
Coal briquettes			—	483	95	—	—
Brown-coal briquettes			—	5,160	5,348	2,676	19,438
Tar and pitch			—	161	16,225	11,750	17,352
Naphthalene			526	41	2,779	5,905	484
Carbolic acid	(a)	(a)	679	2,211	1,245	(b) 2,225	(a)
Cresol			4	393	651	(b) 258	(a)
Light coal-tar oils, etc.			118	2,286	29,956	10,435	29,783
Heavy coal-tar oils, etc.			22	—	273	5,745	2,690
Greece—							
Coal	174,153	167,748	243,521	285,363	279,624	376,040	273,160
Coke	3,359	7,053	7,444	12,870	17,436	12,817	14,067
Naphthalene	943	413	848	842	581	835	511
Pitch	174	235	330	355	845	(a)	(a)
Benzol	24	2	37	134	77	66	115
Tar	(a)	(a)	(a)	8,229	845	374	367
Hungary—							
Coal	116,875	129,059	773,000	(a)	(a)	(a)	(a)
Coke	203,434	415,902					
Iceland—							
Coal	93,959	164,717	125,622	96,630	93,362	67,327	(a)
Coke	135	73	790	562	892	708	(a)
Tar	906	522	268	59	64	97	(a)
Carbolineum	—	5	—	—	—	—	(a)
Italy—							
Anthracite		337,513	44,093	150,015	305,036	465,493	590,618
Bituminous		8,153,963	8,088,874	8,273,364	7,773,243	9,886,991	8,522,315
Lignite		189,495	77,629	156,600	91,927	60,786	49,142
Coke		222,970	33,413	12,436	7,003	43,839	41,203
Briquettes	(a)	668	85	2,121	(d) 16,362	92,356	60,604
Tar and tar oils		22,188	5,789	13,175	4,514	400	1,165
Benzol		18,293	25,593	5,678	1,383	10,369	5,804
Toluol and xylol		3,139	2,605	3,381	7,854	6,401	6,822
Naphthalene		5,167	3,342	6,247	2,801	5,211	7,115
Netherlands—							
Coal (c)	2,901,587	3,718,189	3,325,545	3,917,395	4,367,030	4,991,478	5,402,839
Coke	8,706	1,257	9	6,798	161,553	181,864	189,916
Briquettes	16,595	10,153	38,380	24,582	128,868	219,839	287,959
Brown-coal briquettes	316,660	192,020	232,272	194,640	218,868	236,349	228,387
Tar	3,710	2,961	6,640	5,899	12,179	8,162	6,048
Creosote	6	36	25	5	3,990	2,206	5,774
Naphthalene	—	—	70	40	1,968	1,056	1,904
Carbolic acid	286	326	324	124	905	1,640	1,832
Benzol	—	—	68	30	2,524	97	108
Toluol and xylol	73	687	426	2,124	1,211	398	17
Carbolineum	1,347	357	21	132	411	404	204
Solvent naphtha	6	1	83	58	225	443	289
Asphalt	255	63	763	879	1,088	1,147	1,023

(a) Information not available.

(b) January to September only.

(c) Of which the amounts imported for bunkering purposes were:—

Year	long tons
1946	181,014
1947	232,451
1948	104,903
1949	111,998
1950	78,990
1951	62,051
1952	33,684

(d) July to December only.

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

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Norway—							
Coal	1,481,680	2,033,691	1,481,437	1,384,675	1,280,793	1,798,884	1,031,877
Coke	55,694	10,087	228,332	172,010	388,125	190,480	280,097
Tar and pitch, etc. ..	8,826	10,988	9,769	12,461	9,173	(a)	(a)
Benzol	(a)	(a)	(a)	(a)	100	101	72
Toluol and xylol	(a)	(a)	(a)	(a)	1,468	2,099	1,881
Pitch coke	11,283	18,384	21,327	28,012	14,166	1,194	2
Creosote, etc.	6,088	7,946	7,960	9,227	7,733	10,347	9,736
Portugal—							
Anthracite	38,767	40,903	20,267	13,603	26,295	21,873	14,774
Other coal	527,197	912,816	755,104	856,901	743,197	563,492	420,127
Coke	35,382	17,644	42,881	21,454	23,766	37,004	21,889
Briquettes	2,053	(a)	851	1,306	11,100	9,717	79
Tar and pitch	8,975	6,446	6,816	4,363	7,599	9,746	3,663
Carbolic acid	2	27	27	39	6	2	42
Naphthalene	236	122	71	136	173	76	110
Spain—							
Anthracite	—	—	98	113	—	—	—
Bituminous	72,149	17,004	467,237	898,993	571,667	325,133	714,330
Coke	1,764	—	31,963	83,140	143,203	82,427	
Briquettes	—	6	3,346	944	—	13,937	—
Tar and pitch	45,290	22,417	63,076	68,073	39,208	69,751	54,487
Benzol, toluol, xylol, etc.	668	3,002	1,230	62	865	1,338	2,993
Sweden—							
Anthracite	—	517,528	33,517	32,288	48,045	71,934	29,235
Other coal	2,404,772	3,577,189	5,282,205	3,869,809	4,705,734	5,166,352	4,736,801
Coke	995,335	889,523	1,590,353	1,953,920	2,272,868	2,475,807	2,580,928
Briquettes	58,262	636,222	211,467	5,274	23,617	594,791	591,422
Tar, pitch, etc.	3,228	7,613	13,587	4,619	2,998	8,623	12,557
Benzol, etc.	9,601	4,048	10,033	6,543	8,817	10,274	8,929
Carbolic acid, etc. ..	1,049	2,043	2,150	2,168	2,228	1,202	2,018
Naphthalene	(a)	(a)	(a)	1,430	2,169	1,602	3,780
Switzerland—							
Coal	1,079,362	1,695,169	1,761,207	1,325,390	1,760,585	2,342,328	1,867,741
Lignite	25,601	68,558	3,057	854	805	5,204	770
Coke	283,445	394,464	634,952	429,264	576,340	558,599	635,620
Briquettes	123,105	323,673	197,597	233,268	294,595	418,336	256,718
Tar and pitch	117,700	50,147	43,463	37,524	54,113	66,932	47,101
Creosote, etc.	4,663	1,760	2,528	1,465	1,091	3,141	1,345
Naphthalene, etc. ..	9,322	13,303	17,208	8,842	10,514	15,464	9,369
Yugoslavia—							
Anthracite	(a)	(a)	(a)	(a)	40,671	53,057	69,468
Other coal					4,395	3,703	64,533
Coke					336,229	466,981	446,041
Coke dust					29,309	10,365	12,432
Benzol, toluol, etc. ..					1,860	2,240	2,010
Naphthalene					168	184	372
Algeria—							
Coal	707,727	565,796	382,926	353,808	383,028	360,666	473,945
Coke	3,378	2,337	3,783	948	4,660	—	—
Briquettes	15,953	8,787	17,138	1,067	13,143	3,520	2,154
Tar and pitch	7,212	5,105	6,693	2,104	9,913	6,289	6,326
Benzol, toluol, etc. ..	3	81	98	128	211	215	333
Naphthalene	174	13	27	95	48	56	75
Heavy oils	211	82	337	40	83	135	94
Angola—							
Coal	5,974	5,558	(a)	25,015	19,972	(a)	(a)
Coke	459	253	(a)	(a)	(a)	(a)	(a)
Tar and pitch	435	667	(a)	(a)	(a)	(a)	(a)
Belgian Congo—							
Coal	118,717	106,255	117,259	157,933	148,517	107,835	183,871
Coke	72,555	67,528	54,225	44,302	56,648	52,215	62,747
Briquettes	20,563	22,717	10,191	32,081	—	23,945	6,238
Tar	171	127	(a)	(a)	254	600	621

(a) Information not available.

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

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Cameroon (French)—							
Coal	4,953	10,726	18,073	26,641	7,921	14,670	23,143
Canary Islands—							
Coal (c)	111,839	186,794	94,127	106,356	63,363	72,928	(a)
Ceuta—							
Coal (c)	225,834	186,577	208,902	247,339	213,228	99,535	(a)
Egypt—							
Coal	191,964	267,009	251,910	257,329	143,840	223,415	178,258
Coke	2,802	1,508	13,184	7,068	7,869	8,266	7,962
Briquettes	—	—	24,690	52,353	24,296	7,195	6,980
Tar and pitch	26	116	31	59	43	67	61
Naphthalene	186	24	129	43	98	110	109
Coal-tar residues	44	4	256	900	195	80	7
Ethiopia—							
Coal	(a)	(a)	(a)	(a)	(a)	5,916	3,452
Naphthalene	(a)	(a)	(a)	(a)	(a)	339	184
French Equatorial Africa—							
Coal and briquettes	8,315	11,160	24,876	51,218	7,249	3,099	10,302
French Somaliland—							
Coal	17,407	17,321	40,446	21,172	12,536	17,300	10,895
French Togoland—							
Coal and briquettes	4,343	31	2,100	2,367	(a)	964	752
French West Africa—							
Coal	112,665	99,167	78,709	158,064	91,433	86,413	155,332
Briquettes				46,061	70,174	135,427	
Other				1,673	1,181	4,429	
Madagascar—							
Coal	36,370	30,779	27,463	24,818	60,644	25,657	49,846
Melilla—							
Coal	18,769	16,797	12,355	9,854	17,764	15,694	(a)
Morocco (French)—							
Coal	106,702	159,191	148,861	103,468	89,585	77,900	88,956
Coke	1,083	2,898	5,022	3,034	3,300	(a)	4,972
Briquettes	—	—	(a)	(a)	(a)	(a)	(a)
Tar	192	81	2,534	3,796	5,503	(a)	6,760
Morocco (Spanish)—							
Anthracite	2,593	1,533	(a)	(a)	(a)	(a)	(a)
Other coal	3,778	5,630	(a)	(a)	(a)	(a)	(a)
Coke	65	23	(a)	(a)	(a)	(a)	(a)
Tar	15	13	(a)	(a)	(a)	(a)	(a)
Mozambique—							
Coal	169,077	180,861	180,457	191,844	216,598	209,957	(a)
Coke	92	74	48	167	381	512	(a)
Tar, pitch and asphalt	2,337	673	961	852	1,388	2,296	(a)
Naphthalene	9	11	4	2	33	6	(a)
Reunion—							
Coal	3,595	10,928	11,887	12,750	(a)	10,031	16,380
Tunis—							
Coal	282,299	273,700	189,601	204,369	157,337	200,824	165,050
Coke	48	2,383	4,686	(a)	(a)	(a)	(a)
Briquettes	—	17	—	(a)	(a)	(a)	(a)
Tar	1	213	757	(a)	(a)	(a)	(a)
Costa Rica (b)—							
Coal	87	122	2,951	100	(a)	(a)	(a)
Cuba (b)—							
Coal	107,865	(a)	29,040	24,305	9,518	55,980	(a)
Coke	(a)	(a)	16,993	18,622	15,408	7,441	(a)
Creosote oil	(a)	(a)	152	75	131	144	(a)
Tar and pitch	(a)	(a)	113	123	159	121	(a)

(a) Information not available.

(b) Total imports.

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

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

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Dominican Republic (b)— Coal, coke, briquettes, etc.	(a)	3,808	5,400	454	175	400	396
French West Indies— Guadeloupe— Coal	2,190	5,336	3,615	1,379	59	2,358	2,925
Martinique— Coal	6,208	6,608	3,764	8,108	} 5,703	2,591	2,960
Coke	864	1	1	1			
Guatemala— Coal	(a)	1,152	82	120	44	136	(a)
Coke	(a)	154	330	638	1,124	162	(a)
Haiti— Coal (c)	5	5	14	23	42	(a)	(a)
Mexico— Coal	756	742	1,349	1,628	763	976	26,097
Coke	2,323	11,153	32,947	77,491	29,345	13,540	18,564
Tar and pitch	56	30	17	74	21	76	156
Benzol, etc.	181	192	176	423	518	877	1,404
Cresote	245	1,491	4,483	73	171	213	158
Nicaragua (total imports)— Coal and coke	7	58	(a)	(a)	(a)	(a)	(a)
St. Pierre and Miquelon— Coal	11,614	12,760	18,221	12,098	11,772	6,606	11,668
United States— Anthracite	8,532	9,241	844	—	16,329	23,939	26,223
Bituminous	289,180	236,234	213,885	222,793	227,641	193,138	173,136
Lignite	7,103	2,268	1,066	1,196	1,999	1,282	574
Slack and culm	91,824	20,553	45,171	57,243	79,919	65,879	60,434
Coke	46,596	92,940	144,107	247,774	390,699	144,321	279,035
Briquettes	583	346	294	326	718	110	150
Tar and pitch	7,131	5,466	9,918	8,223	13,762	5,839	3,226
Benzol	8,137	3,516	7,834	9,918	79,218	228,465	145,809
Cresylic acid	10,300	9,936	11,567	4,857	13,580	15,562	4,659
Cresote oil	9,294	136,898	164,664	132,520	165,274	196,427	265,661
Naphthalene	112	1,054	16,778	22,359	50,101	34,359	41,346
Carbolic acid	24	1	11	69	69	2	8
Argentina— Coal	1,126,294	1,195,427	2,142,842	1,319,650	1,424,232	2,167,638	(a)
Coke	7,450	29,527	61,165	38,753	19,895	50,195	(a)
Briquettes	—	7,077	15,112	—	—	—	(a)
Tar and pitch	316	} (a)	(a)	(a)	(a)	(a)	(a)
Naphthalene	1,867						
Carbolic acid	638						
Creolin	1						
Heavy coal-tar oils	758						
Bolivia— Coal	21,686	8,268	6,888	11,458	1,765	12,303	(a)
Brazil (total imports)— Coal	1,021,118	1,506,929	1,043,406	755,257	1,065,622	989,493	870,589
Coke	23,111	40,963	22,457	22,030	35,835	53,218	30,323
Briquettes	9,961	—	—	24,349	(a)	11,031	38,899
Carbolic acid	75	100	163	327	(a)	265	537
Benzol, toluol, etc.	(a)	448	234	512	(a)	1,252	500
Naphthalene	21	118	243	181	(a)	15	4
Chile— Anthracite	62	8,811	2,273	2,650	} 76,768	193,889	174,205
Other coal	3,405	31,228	90,248	(a)			
Coke	7,070	5,543	7,935	7,312	5,905	1,960	984
Naphthalene	24	(a)	70	63	(a)	(a)	(a)
Carbolic acid and cresol	993	556	1,569	1,428	474	1,513	1,199
Creolin, etc.	156	(a)	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

(b) Total imports.

(c) Years ended September 30 of that stated.

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

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Colombia—							
Coal	57	(a)	(a)	(a)	(a)	(a)	(a)
Tar and pitch	160	(a)	(a)	(a)	(a)	(a)	(a)
Naphthalene	15	(a)	(a)	(a)	(a)	(a)	(a)
Cresol, creolin, etc. ..	19	(a)	(a)	(a)	(a)	(a)	(a)
Dutch Guiana—							
Coal	1,970	2,786	4,276	(a)	(a)	(a)	(a)
French Guiana—							
Coal	24	54	10	(a)	—	—	—
Peru—							
Coal	370	305	(a)	—	210	3,327	3,326
Coke	890	714	(a)	564	461	963	984
Tar	18	(a)	(a)	1	(a)	12	5
Naphthalene	13	(a)	(a)	83	—	(a)	(a)
Uruguay—							
Coal	149,827	103,943	112,732	109,021	126,030	136,958	(a)
Coke	5,294	6,067	5,602	4,227	847	3,363	(a)
Naphthalene	(a)	(a)	95	63	25	—	(a)
Venezuela—							
Coal	1,040	940	756	870	707	694	(a)
Naphthalene	6	19	17	(a)	(a)	(a)	(a)
China—							
Coal	71,951	212,029	135,974	(a)	(a)	(a)	(a)
Coke	1,053	4,507	1,183	(a)	(a)	(a)	(a)
Tar and pitch	343	287	107	(a)	(a)	(a)	(a)
French Indo-China—							
Coal	(a)	7,408	10,244	9,488	11,490	10,457	(a)
Iran (total imports) (b)—							
Coal, coke and peat	2	1	—	—	—	—	(a)
Iraq—							
Coal	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Coke							
Tar and pitch							
Israel—							
Anthracite	4,058	(a)	(a)	20,001	13,500	(a)	(a)
Other coal	738	(a)	(a)	4,766	7,920	(a)	(a)
Coke	93	(a)	(a)	1,033	12,319	(a)	(a)
Japan (total imports)—							
Coal	—	35,431	1,169,237	1,677,088	819,044	1,904,355	3,302,371
Korea (total imports)—							
Coal	(a)	(c) 627,960	963,481	(a)	(a)	(a)	(a)
Portuguese India—							
Coal	5,640	25,549	4,296	2,779	(a)	(a)	(a)
Coke	1	9	61	153	(a)	(a)	(a)
Syria and Lebanon—							
Anthracite	24,874	(a)	(a)	(a)	(a)	(a)	(a)
Other coal	—						
Coke	1						
Tar	1						
Turkey—							
Coal	218	—	35	—	20	3	—
Cresol and naphthalene	166	495	169	40	122	44	114
French Oceania—							
Coal	3,045	6,436	2,907	3,852	5,941	3,410	5,307
New Caledonia—							
Coal	53,041	35,670	28,079	125,541	67,481	87,197	156,997

(a) Information not available

(b) Years ended March 20 following year stated.

(c) Exports from Japan to Korea.

COBALT

PRODUCTION OF COBALT

(In terms of metal)

(Cwt.)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Northern Rhodesia ..	9,348	7,627	7,759	10,237	13,177	13,985	9,901
Canada (b)	660	5,113	(c) 13,793	5,527	5,213	8,496	11,638
Australia (d)	203	162	198	181	208	165	208
FOREIGN COUNTRIES							
Finland	1,988	2,008	—	—	—	—	—
Belgian Congo	42,400	69,000	84,600	86,670	101,334	112,494	134,462
Morocco (French) ..	4,720	7,280	5,252	4,901	8,346	14,251	19,782
Mexico	—	—	—	—	—	35	316
United States	4,628	5,762	6,138	4,658	7,226	8,059	12,172
TOTAL	63,947	96,952	117,740	112,174	135,500	157,500	188,500

Complex ores containing cobalt are produced in Greece, China and Korea, but figures are not available.

(a) Information not available.

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

(c) The greater part of the 1948 production was shipments from stockpiles of ores mined in earlier years.

(d) Estimated cobalt content of cobalt oxide.

EXPORTS OF COBALT, ETC.

(Domestic Produce)

(Cwt.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Cobalt and cobalt alloys	1,435	698	606	751	602	849	653
Cobalt oxide	1,829	1,087	951	882	2,450	421	1,547
Other compounds ..	(a)	5,967	6,917	9,683	12,376	7,940	6,939
Northern Rhodesia—							
Cobalt	—	—	—	—	—	—	536
Cobalt alloy	26,125	18,196	21,214	28,268	35,750	34,589	26,589
Canada—							
Cobalt ore (Co content)	429	797	7,777	440	149	315	—
Cobalt	4,558	360	280	107	—	1,717	2,817
Cobalt alloys	997	533	792	305	9	7	183
Cobalt oxides and salts	4,072	7,477	7,829	5,273	3,466	5,888	7,018
Australia—							
Cobalt	(a)	(c) 851	—	80	—	—	—
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.							
Cobalt	(b)	(b)	(b)	(b)	(b)	(b)	(b)
Finland—							
Cobalt ore	4	232	—	—	2,479	80	—
Cobalt	2,136	682	98	—	—	—	—
Cobalt oxide	38	—	217	—	—	—	—
France—							
Cobalt salts	12	25	(d) 4	(d) 12	(d) 4	(d) 169	161
Sweden—							
Cobalt	—	98	—	—	—	—	—
Belgian Congo—							
Cobalt	} 93,736	160,662	37,277	37,690	45,952	51,295	66,414
Cobalt-copper ingots ..			123,833	109,778	130,608	139,813	162,079
Morocco (French)—							
Cobalt ore	62,989	31,495	106,294	35,628	62,596	131,687	177,433
United States							
Cobalt ore, etc.	13	—	1,203	—	—	—	} 22,641
Cobalt alloys and scrap..	141	5	435	1,472	1,422	92	
Chile—							
Cobalt ore	—	(a)	(a)	(a)	(a)	(a)	(a)
Cobalt salts	11	(a)	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

(b) Exports of cobalt metal are not separately recorded, but imports into the United States from Belgium were as follows (cwt.):—1946—15,049; 1947—24,339; 1948—15,399; 1949—19,470; 1950—24,595; 1951—27,570; 1952—30,150.

(c) Year ended June 30 of that stated.

(d) Oxide only.

IMPORTS OF COBALT, ETC.

(Less Re-exports)

(Cwt.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Rondels, pellets and squares	5,179	6,341	8,688	6,705	5,836	5,587	9,264
Other kinds, including alloys	9,197	18,021	20,082	24,419	30,117	25,507	20,758
Cobalt oxide	3,365	4,419	7,177	5,635	5,111	8,305	10,371
Other compounds	(a)	2,516	2,734	688	2	453	4
Canada—							
Ore	10,446	—	7,572	727	34,933	32,927	133,423
Cobalt oxide	145	6	1	9	231	—	—
Australia—							
Cobalt	(a)	(a)	480	322	290	(a)	(a)
Cobalt salts	(c) 396	(c) 394	(c) 592	(c) 853	800	640	900
FOREIGN COUNTRIES							
Czechoslovakia—							
Zaffre and smalt	522	423	(b) 108	(a)	(a)	(a)	(a)
France—							
Cobalt ore	13,862	4,518	22,643	20,286	30,756	79,882	106,048
Matte and speiss	3,455	4,287	(a)	(a)	(a)	2	4
Ingots	2,447	2,051	(a)	(a)	(a)	18	230
Cobalt oxide, including zaffre and smalt	102	10	116	22	297	167	203
Cobalt salts	285	709	(a)	(a)	(a)	(a)	(a)
Italy—							
Metal and alloys, crude and scrap	(a)	(a)	(a)	(a)	(e) 211	423	1,783
Cobalt oxide	344	356	226	691	448	526	1,228
Sweden—							
Cobalt	1,567	1,780	1,630	2,543	2,067	1,791	2,491
Mexico—							
Cobalt	2	—	(a)	(a)	(a)	—	—
United States—							
Cobalt ore (d)	15,685	10,910	107,760	32,466	30,734	37,682	56,535
Co content	4,585	2,374	22,769	14,579	17,081	16,066	25,608
Cobalt metal	17,282	68,602	47,182	49,896	60,240	75,856	105,880
Cobalt oxide	9,596	7,281	6,922	3,217	8,368	3,898	3,455
Cobalt salts	3	5	12	3	42	28	116
Argentina—							
Cobalt	23	(a)	(a)	(a)	(a)	(a)	(a)
Brazil—							
Cobalt oxide	130	180	78	235	(a)	3	220
China—							
Cobalt oxide	1,108	785	(a)	(a)	(a)	(a)	(a)
Japan—							
Cobalt oxide	(a)	2,775	(a)	(a)	89	343	(a)
Turkey—							
Cobalt metal	(a)	30	—	7	—	—	—
Cobalt salts	58	60	1	—	—	4	4

(a) Information not available.

(b) January to October only.

(c) Years ended June 30 of that stated.

(d) As recorded in official trade returns. According to U.S. Bureau of Mines includes Cobalt alloy.

(e) July to December only.

COPPER

PRODUCTION OF COPPER ORE

(In terms of metal)

(Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Great Britain	22	20	(a)	(a)	(a)	27	16
Kenya (exports)	—	—	—	—	—	100	306
Northern Rhodesia (d)	188,520	194,172	222,900	254,988	292,788	314,329	324,275
Southern Rhodesia	143	171	129	79	115	94	107
South West Africa	—	(c) 4,980	8,150	9,514	10,823	12,417	13,970
Tanganyika	—	—	—	—	27	135	252
Union of South Africa	26,578	28,869	28,809	30,821	33,446	33,198	34,558
Canada (d)	164,257	201,663	214,939	} 235,229	235,901	241,046	230,096
Newfoundland	4,388	3,792	4,061				
Cyprus (e)	6,000	15,000	14,900	(g) 23,600	(g) 20,500	(g) 21,600	24,900
India	6,500	6,350	6,460	6,440	7,180	7,580	6,670
Australia	17,755	13,123	12,368	13,462	14,905	16,607	20,088
New Zealand	60	—	—	75	—	19	—
TOTAL	414,000	468,000	513,000	575,000	616,000	647,000	655,000
FOREIGN COUNTRIES							
Austria	103	317	857	1,339	1,651	1,813	2,710
Finland (d)	13,980	15,356	18,089	18,422	15,203	18,018	18,386
France (d)	22	55	93	66	42	51	(a)
Germany (Federal)	(f) 461	(f) 235	(f) 358	854	1,340	1,643	2,315
Italy	200	300	370	400	410	390	400
Norway	12,056	14,475	14,873	14,640	15,374	13,782	13,415
Portugal	1,800	2,100	2,500	2,900	2,585	2,963	2,720
Spain (b)	8,500	8,000	9,000	10,000	12,000	13,000	17,000
Sweden	15,119	12,936	14,601	16,016	15,846	14,219	15,600
U.S.S.R. (estimated)	146,000	159,000	192,000	231,000	251,000	285,000	329,000
Yugoslavia	24,000	33,000	41,000	38,000	42,609	35,382	36,386
Angola	90	280	388	730	1,259	1,140	1,112
Belgian Congo (smelter)	141,613	148,458	153,025	139,166	173,142	188,927	202,499
Morocco (French)	60	40	433	354	20	28	797
Cuba	12,590	11,044	15,000	17,000	20,235	20,873	17,509
Mexico (d)	60,089	62,489	58,143	56,342	60,724	66,287	57,540
United States (d)	543,515	756,753	745,369	672,098	811,913	828,866	825,419
Bolivia (exports)	6,030	6,142	6,512	4,994	4,630	4,769	4,629
Chile (d)	345,336	419,931	437,922	365,233	357,028	373,729	398,347
Ecuador	2,046	91	333	698	518	—	—

(a) Information not available.

(b) Estimated.

(c) Including ore sorted ex dumps.

(d) Amount estimated as recoverable.

(e) Estimated copper content of saleable pyrites plus the copper content of copper concentrates produced. The copper content of the latter was as follows (long tons): 1946—4,700; 1947—12,100; 1948—11,200; 1949—18,500; 1950—14,800; 1951—17,100; 1952—18,000.

(f) British Zone only.

(g) Revised.

PRODUCTION OF COPPER ORE (Cont.)

Producing Country	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Peru.. .. .	24,204	22,137	17,784	27,517	29,797	31,794	29,309
Japan	14,739	21,542	25,322	32,366	38,806	42,085	52,706
Korea (South)	144	127	65	28	27	5	90
Philippine Republic	—	2,462	3,300	6,896	10,220	12,911	13,092
Saudi Arabia	9	249	66	48	41	(a)	(a)
Turkey (smelter)	9,891	9,921	10,806	11,105	11,515	12,889	22,962
TOTAL	1,396,000	1,710,000	1,770,000	1,670,000	1,880,000	1,970,000	2,060,000
WORLD'S TOTAL	1,806,000	2,180,000	2,280,000	2,290,000	2,490,000	2,620,000	2,720,000

Copper ore is also produced in small quantities in certain European countries, China and Iran, information for which is not available.

(a) Information not available.

METAL PRODUCTION OF COPPER

(Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Northern Rhodesia ..	182,289	192,500	213,615	259,302	276,433	309,141	312,334
Union of South Africa ..	26,166	28,568	28,536	29,248	32,816	32,403	33,663
Canada (b)	149,043	177,159	190,015	200,377	206,465	210,746	199,458
India	6,311	5,931	5,863	6,390	6,614	7,083	6,079
Australia	22,659	19,505	11,389	9,858	13,509	12,483	18,841
TOTAL	386,500	423,700	449,400	505,200	535,800	571,900	570,300
FOREIGN COUNTRIES							
Austria (d)	—	488	2,109	3,735	5,284	6,348	6,330
Finland	24,483	25,370	23,612	21,052	17,322	21,146	22,342
France	2	313	273	(a)	(a)	(a)	(a)
Germany (Federal) (f) ..	5,952	18,046	38,998	101,470	131,622	138,869	139,320
Italy	7	103	164	29	54	59	(a)
Norway	7,430	7,795	8,794	9,159	8,892	8,519	9,851
Portugal	81	2	—	—	—	19	—
Spain (e)	9,094	7,795	8,740	11,574	9,567	6,260	6,803
Sweden	14,242	14,032	16,909	14,132	16,247	13,784	13,250
U.S.S.R. (estimated) ..	146,000	159,000	192,000	231,000	251,000	285,000	329,000
Yugoslavia (c)	21,387	31,839	36,288	33,841	39,447	31,505	32,301
Angola	—	—	—	732	1,258	1,082	972
Belgian Congo	141,613	148,458	153,025	139,166	173,142	188,927	202,499
Mexico	51,544	54,945	51,136	53,454	55,311	54,028	54,352
United States (h)	582,876	843,476	826,295	767,525	900,472	925,569	914,667
Chile	353,294	402,698	418,897	345,197	340,004	354,412	377,230
Ecuador	2,046	—	—	—	—	—	—
Peru	19,286	17,542	11,637	20,785	22,860	23,932	20,214
China	672	1,591	(g) 1,000	(a)	(a)	(a)	(a)
Japan (i)	20,397	28,357	28,664	37,935	36,589	43,155	48,529
Korea (South)	158	386	506	303	(a)	18	34
Turkey	9,891	9,921	10,806	11,105	11,515	12,889	22,962
TOTAL	1,411,000	1,772,000	1,830,000	1,804,000	2,021,000	2,116,000	2,202,000
WORLD'S TOTAL	1,798,000	2,196,000	2,279,000	2,309,000	2,557,000	2,688,000	2,773,000

(a) Information not available.

(b) Copper content of blister and anode copper.

(c) Revised to exclude electrolytic copper which is obtained from blister copper shown.

(d) Includes secondary metal.

(e) Up to and including 1950, figures refer to black and blister copper and exclude electrolytic copper which is, in part, obtained from blister copper. Source: Centro Industrial de Vizcaya (U.N. Monthly Bull. of Stats.). Subsequent figures refer to blister copper only.

(f) In addition, secondary metal recovered from fire-refined scrap was as follows (long tons): 1946—11,610; 1947—13,464; 1948—22,263; 1949—41,767; 1950—59,098; 1951—57,296; 1952—42,700.

(g) Estimated.

(h) In addition, secondary metal was recovered as follows (long tons): 1946—717,452; 1947—858,697; 1948—868,561; 1949—636,735; 1950—872,535; 1951—832,395; 1952—825,419.

(i) In addition, secondary metal was recovered as follows (long tons): 1946—2,504; 1947—7,878; 1948—24,818; 1949—34,936; 1950—46,805; 1951—46,356; 1952—44,384.

EXPORTS OF COPPER, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Ore, matte, etc.	56	—	—	143	(a)	(a)	(a)
Bars and ingots	19,217	20,215	21,247	32,113	23,470	3,174	7,034
Scrap	308	—	331	1,640	3,084	678	2,808
Plates, sheets, etc.	16,819	17,420	12,531	12,598	10,738	9,255	8,182
Rods and wire	29,859	24,545	28,143	33,533	30,141	11,157	9,902
Tubes	4,597	4,409	5,742	6,089	4,769	4,848	4,383
Sulphate	52,152	25,241	24,524	38,267	54,839	40,104	41,944
Kenya—							
Concentrates	—	—	—	—	—	524	1,614
Northern Rhodesia—							
Ore and concentrates	(a)	(a)	(a)	(a)	(a)	(a)	6,037
Blister	124,448	128,416	156,656	180,765	217,481	186,886	229,591
Electrolytic	56,241	57,480	59,179	62,653	73,288	103,847	109,754
Southern Rhodesia—							
Ore and concentrates	(a)	(a)	(a)	(a)	(a)	(a)	46
South West Africa—							
Copper-lead ore (Cu content) (b)	—	16,162 (ore)	6,322	9,486	10,515	11,272	14,554
Tanganyika—							
Lead concentrates (Cu content)	—	—	—	—	27	135	251
Union of South Africa—							
Copper-gold concentrates	526	490	597	(e) 172	(e) 82	(e) 21	(e) 32
Copper matte	(a)	606	971	(e) 362	(e) 347	(e) 680	(e) 877
Ingots, bars, plates, etc.	25,257	28,088	22,918	29,662	33,988	29,078	31,734
Canada (c)—							
Ore, matte, etc. (Cu content)	15,739	25,977	25,496	33,087	28,839	32,904	30,748
Ingots, etc.	90,549	78,106	103,723	113,536	119,861	90,921	101,496
Scrap, slag, etc.	1,099	5,085	4,684	3,139	5,566	887	1,550
Rods, sheets and strips	14,023	17,579	24,972	27,727	13,627	11,088	16,631
Tubes	189	712	599	424	607	779	3,750
Wire (excl. insulated)	(£147,337)	(£819,804)	(£265,564)	(£84,869)	(£444,133)	(£495,707)	(£2,058,254)
Newfoundland (d)—							
Concentrates	17,631	16,604	14,580	(d)	(d)	(d)	(d)
Cyprus—							
Concentrates, cement copper and cupreous pyrites (Cu content)	70	12,481	15,486	23,558	22,933	22,451	26,396
Hong Kong (including re-exports)—							
Crude and refined, unwrought (incl. alloyed)	(a)	(a)	(a)	1,322	2,863	5,195	{ 21
Scrap							{ 267
Bars, sheets, tubes and wire (incl. alloyed)	160	77	770	3,587	5,821	237	14
India—							
Ingots, etc.	2	188	23	68	74	164	2,013
Malaya (including re-exports)—							
Ingots, sheets, wire, etc.	86	47	38	107	112	85	137

(a) Information not available.

(b) Copper content of lead-copper-zinc ores and concentrates, the gross weight of which is shown under "Lead" up to 1951.

(c) Including Newfoundland from April 1, 1949.

(d) Years ended March 31 of year following that stated. Included with Canada from April 1, 1949

(e) Cu content

EXPORTS OF COPPER, ETC. (Cont.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES (Cont.)							
Australia—							
Ore, etc. (Cu content) (c)	66	179	930	285	455	(d) 610	(d) 959
Matte (c)	—	—	331	—	300	—	2,001
Blocks and ingots	6,840	407	32	6	1	12	649
Scrap	230	4	—	34	69	65	78
Bars, sheets, wire, etc. .. .	1,004	477	62	54	120	69	170
Irish Republic—							
Scrap	(a)	(a)	(a)	(a)	1,512	717	1,339
FOREIGN COUNTRIES							
Austria—							
Ore	(a)	(a)	(a)	2,487	—	1,978	—
Rough copper	(a)	3	237	12	1,353	1,394	843
Scrap	(a)	15	15	65	468	32	3
Bars, sheets, and wire	(a)	(a)	(a)	232	8	49	74
Sulphate	(a)	(a)	(a)	1,484	477	38	99
Belgium-Luxemburg E.U.—							
Ore	1	(a)	65	—	—	—	—
Rough copper	(a)	102,137	88,181	126,808	116,966	104,000	120,046
Scrap	(a)	(a)	6,945	5,819	8,452	2,812	993
Bars, sheets, wire, etc. .. .	(a)	(a)	18,038	14,314	19,123	22,226	17,944
Tubes and pipes	(a)	(a)	2,061	1,549	1,848	1,637	1,928
Sulphate	(a)	(a)	4,731	8,336	8,126	19,856	25,211
Bulgaria—							
Ore, matte, etc.	16,890	8,863	(a)	(a)	(a)	(a)	(a)
Czechoslovakia—							
Rough copper	—	—	(b) 1,508	(a)	(a)	(a)	(a)
Sheets, rods, wire, etc. .. .	8	70	(b) 185	(a)	(a)	(a)	(a)
Sulphate	74	76	(b) 11	(a)	(a)	(a)	(a)
Denmark—							
Rough copper	298	—	5	28	123	378	1,360
Scrap and alloyed	71	36	174	1,557	2,028	1,534	1,762
Bars, sheets, wire, etc. .. .	20	28	30	51	57	15	52
Finland—							
Ore	—	—	—	—	3	—	(a)
Rough copper and scrap .. .	4,642	4,317	5,287	3,447	4,257	4,203	1,698
Sheets and wire	237	866	525	652	564	860	(a)
France—							
Ore, matte, etc.	2,297	19	—	—	—	—	—
Ingots, alloys, etc.	625	1,518	690	629	16,196	6,678	563
Scrap	109	114	(a)	(a)	(a)	(a)	(a)
Bars, sheets and wire	1,299	4,246	2,016	2,220	2,570	3,502	1,296
Sulphate	101	6,768	7,886	5,966	5,751	8,835	2,327
Germany (Federal)—							
Ore, including burnt cup- reous pyrites	(a)	(a)	—	—	—	295	—
Rough copper	(a)	(a)	9,738	22,193	36,106	35,209	55,621
Coin and scrap	(a)	(a)	—	—	47	1,043	455
Bars, sheets, wire, etc. .. .	(a)	(a)	377	1,429	5,626	4,997	11,192
Sulphate, including fer- rous sulphate	(a)	(a)	—	274	1,278	692	2,126
Greece—							
Ore	—	—	—	—	1,526	—	—
Italy—							
Ore	—	97	—	19	3	668	19
Ingots and alloys	11,202	430	197	499	163	261	98
Scrap	198	4,827	1,050	136	19	2	45
Bars, sheets wire, etc., and alloys	3,425	6,603	6,714	4,031	1,986	1,368	1,173

(a) Information not available.
(b) January to October only.

(c) Years ended June 30 of that stated.
(d) Calendar year.

EXPORTS OF COPPER, ETC. (Cont.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Netherlands—							
Ingots and bars	1,672	53	578	175	453	326	1,296
Scrap	1,659	2,175	1,951	2,125	15,205	15,701	11,924
Sheets, tubes and wire ..	110	644	575	313	234	175	1,811
Sulphate	—	2	—	—	28	92	4
Norway—							
Ore	187	227	588	6,125	6,289	11,259	7,114
Matte	12,800	14,494	12,054	12,598	16,147	13,571	15,202
Burnt cupreous pyrites	4,055	6,077	2,810	—	817	(a)	(a)
Rough and refined copper	6,514	6,191	7,939	7,050	8,910	6,433	7,505
Scrap, including alloyed	1,853	1,946	1,370	1,568	2,116	1,757	2,044
Portugal—							
Ore	—	—	—	—	1,126	—	—
Rough copper, sheets, etc.	11	7	24	14	23	23	12
Sulphate	10	21	32	83	113	153	90
Spain—							
Ore	(a)	(a)	(a)	3,175	—	—	(a)
Ingots, bars and alloyed	14	6	9	9	39	9	(a)
Sheets, tubes, wire and alloyed	105	74	679	505	36	32	—
Sulphate	898	363	296	352	185	432	183
Sweden—							
Rough copper	180	2,639	3,882	4,212	5,485	5,115	11,724
Scrap, including brass ..	79	108	9	131	1,940	551	394
Sheets, tubes, wire, etc.	7,818	10,112	10,694	9,945	14,506	12,137	13,477
Sulphate	2	—	—	1	1	67	3
Switzerland—							
Ore, filings and turnings	100	235	87	266	3,048	2,385	1,421
Bars, ingots, etc. .. .	112	2	101	114	1,276	191	933
Scrap	20	110	10	308	844	162	84
Sheets, tubes, wire, etc. (b)	1,054	3,369	3,695	2,806	4,755	2,361	4,123
Yugoslavia—							
Concentrates	(a)	(a)	(a)	(a)	640	—	(a)
Blister	(a)	(a)	(a)	(a)	15,734	7,672	5,262
Electrolytic	(a)	(a)	(a)	(a)	492	4,782	12,454
Scrap	(a)	(a)	(a)	(a)	—	203	255
Algeria—							
Ore	—	—	—	77	320	169	242
Bars, sheets and wire ..	1	418	489	365	707	1,002	1,463
Scrap	263	656	56	395	1,196	226	76
Sulphate	—	—	—	—	—	6	—
Angola—							
Ore	205	—	1,076	207	(a)	1,125	332
Ingots	(a)	(a)	(a)	1,773	(a)	(a)	(a)
Belgian Congo—							
Copper-cobalt ingots (d)	4,687	8,033	6,192	5,489	6,530	6,991	8,104
Matte	17,981	9,749	—	—	—	—	—
Ingots	86,739	68,026	154,911	149,024	164,246	181,025	201,047
Cathodes	49,486	78,700	—	—	—	—	—
Egypt—							
Rough copper and scrap	2,032	2,578	22	137	—	83	116
Morocco (French)—							
Ore	905	—	(a)	2,288	154	404	1,827
Old and scrap	166	207	68	4	11	(a)	272
Cuba—							
Ore	34,800	33,919	46,817	40,057	77,026	66,067	50,627
Scrap	(a)	(a)	—	129	196	128	(a)
Mexico—							
Ore, concentrates, etc. ..	29,122	37,525	32,482	26,806	17,575	26,122	25,884
Rough copper	37,828	42,395	35,042	50,945	51,499	44,976	50,957
Cu content (c)	48,767	52,415	48,957	48,469	50,963	51,529	33,071

(a) Information not available.

(c) Total metal content of above items and not additional.

(b) Including alloys.

(d) Figures for the years 1946 and 1947 include, if any, exports of granulated cobalt.

EXPORTS OF COPPER, ETC. (Cont.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
United States—							
Ores, matte, blister, etc. (Cu content)	21	103	2,208	179	550	209	577
Refined ingots, etc. ..	46,990	132,500	127,319	123,060	129,073	119,022	155,476
Scrap	811	866	2,023	7,396	8,433	6,876	7,983
Sheets, rods, wire, etc. ..	9,498	16,654	19,329	19,328	15,771	8,103	8,619
Pipes and tubes	2,617	4,560	4,684	2,986	1,775	1,928	2,313
Sulphate	36,916	30,376	37,621	28,319	26,918	38,508	38,768
Argentina—							
Ore	197	(a)	(a)	(a)	(a)	(a)	(a)
Ingots, sheets and scrap	1	(a)	(a)	(a)	(a)	(a)	(a)
Bolivia—							
Ore, etc. (Cu content) ..	6,030	6,142	6,512	4,994	4,630	4,769	4,629
Chile—							
Ores and concentrates ..	24,247	10,623	19,881	14,960	15,944	21,062	28,247
Precipitate	2	7	—	98	295	197	591
Ingots—							
Blister and refined ..	135,987	152,919	193,102	171,350	178,830	183,751	216,500
Electrolytic	232,130	228,240	304,688	176,861	138,183	119,483	130,600
Bars and sheets	2,542	3,054	1,024	1,123	840	10,038	10,906
Sulphate	54	—	24	129	914	543	984
Ecuador—							
Concentrates	249	1,016	1,935	2,912	617	(a)	(a)
Blister	2,231	—	—	—	—	(a)	(a)
Peru—							
Ore (Cu content)	3,160	7,055	4,740	7,129	5,209	8,479	10,205
Matte, etc. (do.)	189	512	258	330	191	221	280
Bars, etc. (do.)	22,326	17,189	12,225	19,561	21,242	24,361	21,067
Precipitate (do.)	—	649	213	294	137	193	430
Formosa—							
Ore (Cu content)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Japan—							
Ingots and blocks	390	1,968	—	20,586	48,802	(a)	(a)
Bars, rods and tubes ..		300	106	(a)	27,683	(a)	(a)
Plates, sheets and wire ..							
Scrap							
Philippine Republic—							
Ore	(a)	—	5,314	22,630	15,551	105	(a)
Copper-gold-silver concentrates ..	(a)	(a)	(a)	(a)	41,672	66,314	(a)
Scrap	(a)	(a)	(a)	(a)	1,488	10,485	(a)
Syria and Lebanon—							
Ingots and scrap	811	(a)	(a)	(a)	(a)	(a)	(a)
Turkey—							
Ingots	23,196	5,346	1,224	7,116	6,216	7,413	16,404

(a) Information not available.

IMPORTS OF COPPER, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Bars, ingots, etc.—							
Electrolytic	166,724	203,206	202,484	175,565	209,858	219,166	207,214
Other refined	14,749	24,445	21,994	14,688	1,516	5,532	4,832
Blister	103,304	134,040	132,247	120,449	105,998	130,931	170,572
Scrap	471	1,539	522	2,004	301	1,113	1,814
Plates, sheets, etc. .. .	2	97	85	39	22	13	31
Rods	6,602	13,557	12,653	12,335	1,106	—	271
Tubes	—	35	44	11	46	8	61
Wire	47	1,653	125	22	160	42	286
Anglo-Egyptian Sudan—							
Sulphate	20	142	110	96	53	246	(a)
Kenya (b)—							
Crude, refined, alloys and scrap	(a)	(a)	(a)	25	52	(d) 202	(d) 222
Bars, sheets, tubes and wire	34	56	337	202	289	79	123
Sulphate	(a)	(a)	—	4	22	92	137
Mauritius—							
Bars, rods, sheets, wire, etc. .. .	27	32	38	95	49	(d) 13	69
Southern Rhodesia—							
Ingots, bars and rods .. .	83	131	265	329	355	624	827
South West Africa—							
Bars, sheets, pipes, wire, etc. .. .	56	31	90	231	193	2	(a)
Tanganyika—							
Ore	22	1	(a)	(a)	(a)	(a)	(a)
Crude, refined, alloys and scrap	(a)	(a)	8	24	14	30	2
Sheets, tubes, wire, etc. .. .	23	82	120	321	76	94	224
Sulphate	(a)	(a)	1	41	48	104	51
Uganda—							
Sheets, tubes, wire, etc. .. .	(c)	(c)	(c)	74	19	12	5
Union of South Africa—							
Bars, ingots and slabs .. .	8,363	10,116	14,126	13,592	17,149	16,281	19,337
Plates, sheets and tubes .. .	1,230	1,521	3,290	2,104	1,236	1,013	(a)
Wire	705	1,537	4,712	1,412	805	695	(a)
Canada—							
Blocks, pigs and ingots .. .	—	1	1	8	109	1,349	11,583
Bars, sheets, wire, etc. .. .	2,492	3,083	2,666	1,794	1,917	2,384	1,429
Scrap	37	40	38	340	413	1,129	1,829
Sulphate	604	571	203	461	632	33	1,372
British West Indies (Barbados)—							
Bars and sheets	(£1,751)	(£1,070)	(£2,522)	(£1,835)	(£1,926)	(£2,847)	(£2,196)
Cyprus—							
Bars, sheets, wire, etc. .. .	52	127	247	81	199	180	97
Hong Kong (total imports)—							
Crude and refined, unwrought incl. alloys .. .	}	(a)	(a)	379	1,736	6,546	{ 171
Scrap .. .. .								}	(a)	(a)	271
Bars, sheets, tubes and wire incl. alloys	136	485	1,905	5,600	7,470	249	2,359
Sulphate	79	85	2	11	120	35	—

- (a) Information not available.
- (b) Including Uganda up to 1948 inclusive.
- (c) Included with Kenya.
- (d) Excess of re-exports.

IMPORTS OF COPPER, ETC. (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952	
BRITISH COUNTRIES (Cont.)								
India—								
Ingots, cakes, blocks, etc.	6,668	12,119	26,264	20,449	29,054	3,224	6,324	
Scrap	2,449	2,890	6,883	4,780	6,564	1,032	175	
Sheets, tubes, wire, etc.	8,702	7,517	2,789	1,216	170	344	275	
Sulphate	1,076	1,548	834	721	1,418	1,592	1,531	
Copper (government stores)	1,488	195	550	(a)	(a)	(a)	(a)	
Malaya (total imports)—								
Ingots, sheets, wire, etc.	684	770	1,393	1,032	972	1,029	1,570	
Pakistan (d)—								
Ingots, cakes, blocks, etc.	}	(a)	(a)	(a)	(a)	}	2	
Scrap							752	
Sheets, tubes, wire, etc.							73	
Sulphate							20	
Australia—								
Ore and concentrates ..	—	531	—	22	626	2	16	
Matte	—	—	11	—	—	—	8	
Blocks and ingots	156	1,311	9,264	23,033	13,948	19,592	24,206	
Scrap	(c) 5	(c) 4	(c) 45	165	99	39	42	
Bars, sheets, tubes, etc. . .	3,133	680	623	6,301	11,861	7,512	4,113	
Sulphate (c)	20	2,055	518	226	1,541	1,367	2,134	
New Zealand—								
Bars, sheets, pipes, etc. . .	1,311	1,704	2,502	2,045	3,417	3,195	4,097	
Wire (£ N.Z.)	(£150,950)	(£252,111)	(a)	1,439	1,537	914	1,242	
Sulphate	3	—	1	398	404	368	1,409	
Irish Republic—								
Bars, sheets, wire, etc. . .	2,220	2,157	2,858	2,285	2,025	1,717	2,284	
Sulphate	3,444	2,719	4,338	2,730	2,369	2,071	2,239	
FOREIGN COUNTRIES								
Austria—								
Ore	(a)	(a)	(a)	(a)	8,547	—	—	
Rough copper	(a)	226	1,426	3,808	4,396	4,658	7,840	
Scrap	(a)	321	238	511	1,258	1,527	911	
Bars, sheets, wire, etc. . .	(a)	26	411	3,227	2,179	3,700	2,390	
Sulphate	(a)	866	1,001	—	—	76	1,134	
Belgium-Luxemburg E.U.—								
Ore	3,212	(a)	13,388	5,222	5,540	6,699	1,201	
Matte and rough copper	}	220,354	}	143,956	148,871	152,720	144,663	
Scrap				10,922	9,948	18,652	20,660	11,671
Bars, sheets, wire, etc. . .				790	734	2,117	596	540
Tubes				(a)	(a)	497	541	512	478
Sulphate	(a)	(a)	27	47	30	5	6	
Bulgaria—								
Ore and matte	—	}	(a)	(a)	(a)	(a)	(a)	
Rough copper and scrap	677							
Bars, sheet and wire ..	1,668							
Sulphate	7,243							
Czechoslovakia—								
Crude, refined and scrap	2,976	22,518	(b) 36,610	(a)	(a)	(a)	(a)	
Sheets, rods, wire, etc. . .	879	2,994	(b) 327	(a)	(a)	(a)	(a)	
Denmark—								
Rough copper	2,574	2,491	3,271	2,318	4,607	3,403	3,611	
Scrap, including alloyed	672	1,338	1,649	473	735	491	316	
Bars, sheets, wire, etc. . .	7,226	7,227	8,344	9,981	10,754	10,137	8,192	
Sulphate	2,674	1,142	2,579	1,250	1,967	1,220	1,165	

(a) Information not available.

(b) January to October only.

(c) Years ended June 30 of that stated.

(d) Years ended March 31 following that stated. Included with India prior to 1948.

IMPORTS OF COPPER, ETC. (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Finland (total imports)—							
Rough	1,130	2,789	1,072	112	395	218	(a)
Scrap	—	—	32	4	651	200	(a)
Bars, sheets, tubes and wire	276	376	2,992	1,427	2,038	1,805	(a)
Sulphate	—	1	1	—	10	71	(a)
France—							
Ore, matte, etc.	—	788	(a)	(a)	(a)	1	(a)
Rough copper							
Unrefined	19,854	12,068	81,058	122,110	105,143	107,735	139,944
Refined	90,947	104,511					
Alloyed	17,155	10,271	20,617	20,212	3,232	3,678	5,770
Scrap	4,801	31,716	(a)	(a)	(a)	4,463	(a)
Bars, sheets and wire	5,701	4,351	338	594	322	262	13,359
Sulphate	26,514	2,384	14,067	7,406	2,614	8,153	18,550
Germany (Federal)—							
Ore and burnt cupreous pyrites	(a)	(a)	590,485	745,340	1,031,613	1,080,319	1,190,402
Matte			(a)	(a)	(a)	(d) 3,058	20,898
Rough copper			14,970	42,036	59,128	62,147	78,613
Coin and scrap			183	3,733	11,668	20,848	21,702
Bars, sheets, wire, etc.			146	233	33	4,888	5,791
Sulphate, including ferrous sulphate	—	—	—	75	603	852	
Greece—							
Rough copper and alloys	367	216	2,072	185	444	279	61
Sheets, tubes, alloys, etc.	85	479	359	393	577	146	444
Sulphate	825	176	24	492	3,705	5,172	1,965
Iceland—							
Bars, tubes, wire, etc.	678	(a)	(a)	201	103	88	(a)
Italy—							
Ore	(a)	(a)	—	13,179	4,483	—	2,082
Ingot and alloys	23,975	56,478	56,299	44,204	60,459	62,874	62,752
Scrap	1,384	963	2,835	5,051	11,408	9,063	8,176
Bars, sheets, wire, etc., and alloys	213	5,453	10,462	6,999	4,791	4,717	3,359
Sulphate	(a)	6,124	693	12,494	10,993	1,965	1,326
Netherlands—							
Ingot and bars	9,600	9,485	15,823	21,574	19,440	14,746	12,412
Scrap	8	—	3	51	946	1,898	562
Sheets, tubes and wire	11,523	15,598	9,895	6,011	9,108	6,761	10,387
Sulphate	1,049	944	1,352	975	1,242	819	412
Norway—							
Rough copper	1,122	1,484	2,172	3,196	2,390	1,682	2,836
Copper-nickel matte	11,138	14,464	16,771	19,006	16,362	20,634	26,119
Bars, sheets, rods, etc.	314	1,009	1,216	1,088	1,773	1,023	731
Tubes (including brass) and wire	5,832	8,144	7,644	7,616	8,427	7,247	8,800
Sulphate	19	50	258	320	117	373	36
Portugal—							
Ore and concentrates	205	—	1,076	—	165	—	—
Ingot, wire, alloys, etc.	9,119	7,916	7,352	4,529	(c) 2,963	(c) 3,044	(c) 4,099
Sulphate	239	1,200	414	658	1,046	1,760	2,378
Spain—							
Ore	—	3,972	—	93	—	31	(a)
Precipitate and scrap (b)	225	2,092	4,606	2,968	1,466	2,722	(a)
Ingot and bars (b)	7,029	3,119	5,359	5,538	3,413	1,557	(a)
Sheets, tubes and wire (b)	170	459	1,040	127	65	55	(a)
Sulphate	2,981	11,242	1,365	6,978	8,192	10,788	6,953

- (a) Information not available.
 (b) Including alloys.
 (c) Excluding alloys.
 (d) October to December only.

IMPORTS OF COPPER, ETC. (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Sweden—							
Ore	273	—	—	4,993	3,985	12,181	36,225
Rough copper	50,673	53,629	34,124	38,156	37,219	37,704	43,620
Scrap, including brass ..	2,277	4,047	6,319	5,091	4,165	7,543	10,923
Sheets, rods, wire, etc. ..	1,292	3,222	1,331	669	511	564	1,314
Sulphate	202	142	126	135	488	519	574
Switzerland—							
Ore, filings and turnings	1,253	977	1,426	318	343	416	23
Bars, ingots, etc. (b) ..	25,990	22,392	32,928	16,411	17,474	24,801	24,926
Scrap (b)	13,047	2,204	2,323	173	54	732	267
Sheets, tubes, wire, etc. (b)	7,615	5,994	9,210	3,287	5,697	13,677	7,075
Algeria—							
Ore	503	605	989	181	—	—	—
Rough copper	1,773	297	2,793	5,207	2,097	3,510	4,950
Scrap	109	10	37	—	—	—	1
Bars, sheets, wire, etc. ..	434	1,050	1,262	466	326	316	307
Sulphate	3,453	7,739	7,289	7,973	6,039	5,958	6,958
Angola—							
Bars, sheets, wire, etc. ..	66	50	(a)	(a)	(a)	(a)	(a)
Egypt—							
Crude and scrap	(c) 512	(c) 3,866	558	2,043	3,325	2,303	627
Bars, sheets, tubes, etc.	914	513	690	1,463	678	773	505
Sulphate	135	1,121	1,207	1,864	2,800	2,247	735
Madagascar—							
Crude, sheets, wire, etc.	40	65	312	(a)	(a)	(a)	(a)
Morocco (French)—							
Ingots, sheets and wire (b)	299	498	25	902	876	(a)	895
Mozambique—							
Bars, sheets, wire and alloys	282	104	179	239	152	62	(a)
Tunis—							
Bars, sheets and wire (b)	450	672	425	548	551	(a)	(a)
Sulphate	60	—	—	(a)	(a)	(a)	(a)
Costa Rica—							
Bars, sheets and wire ..	68	73	28	40	(a)	(a)	(a)
Sulphate	5,193	5,112	8,274	6,828	(a)	(a)	(a)
Cuba (total imports)—							
Ingots and bars	(a)	(a)	268	247	252	140	(a)
Sheets, tubes and wire ..	(a)	(a)	2,585	1,421	1,401	1,271	(a)
Guatemala—							
Sheets and wire	(a)	(a)	315	238	408	205	(a)
Sulphate and carbonate ..	(a)	(a)	8,883	4,554	5,353	7,931	(a)
Honduras—							
Sulphate	8,201	(a)	(a)	(a)	(a)	(a)	(a)
Mexico—							
Ingots	6,295	1,483	488	55	4	4	11
Bars, sheets, alloys, etc.	1,812	1,325	1,344	978	1,327	1,672	851
Sulphate	2,679	—	—	—	691	1,513	4,569
United States—							
<i>Cu content of—</i>							
Ore and concentrates	28,265	72,301	55,353	113,862	84,791	87,643	95,717
Matte, precipitate, etc.	5,247	2,189	1,522	1,791	1,141	1,929	3,600
Blister	146,251	190,242	143,079	137,093	128,393	160,370	154,844
Refined ingots, bars and plates	136,275	134,253	223,337	246,671	288,373	219,780	310,123
Scrap	934	5,321	8,334	6,040	34,443	9,378	4,618
Sulphate	—	—	30	—	210	95	—
Argentina—							
Ingots, electrolytic ..	5,506	15,718	7,549	3,898	8,945	(a)	(a)
Tubes, including bronze	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Sulphate	2,904	2,591	1,446	1,097	2,900	(a)	(a)

(a) Information not available.

(b) Including alloys.

(c) Excess of re-exports.

IMPORTS OF COPPER, ETC. (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Brazil (total imports)—							
Electrolytic	13,822	5,663	7,396	18,328	17,254	19,177	16,877
Rough	6,254	10,428	3,341	3,411	(a)	2,303	2,449
Plates and sheets ..	1,447	1,188	716	1,020	(a)	1,199	984
Tubes, pipes and wire	1,134	1,451	849	(a)	(a)	1,616	2,201
Sulphate	2,143	582	1,815	2,068	(a)	3,441	2,278
Chile—							
Bars, sheets and wire ..	—	1	2	(a)	(a)	(a)	(a)
Colombia—							
Ingots, sheets, etc. ..	516	(a)	(a)	209	375	(a)	(a)
Wire	689	(a)	(a)	(a)	(a)	(a)	(a)
Sulphate	405	(c)	(a)	1,366	4,573	(a)	(a)
Peru—							
Bars, sheets, etc. ..	64	(a)	310	406	395	536	688
Sulphate	866	(a)	484	311	583	399	416
Uruguay—							
Bars and sheets	(a)	(a)	603	418	620	259	(a)
Venezuela—							
Sheets	162	207	270	146	(a)	(a)	(a)
Sulphate	37	70	43	65	(a)	(a)	(a)
China—							
Ingots and blocks ..	3,291	2,097	1,977	(a)	(a)	(a)	(a)
Bars, sheets, wire, rods and tubes	1,995	1,998	4,111	(a)	(a)	(a)	(a)
Iran (total imports) (b)—							
Ingots, bars, sheets and alloys	476	626	(a)	(a)	(a)	534	(a)
Japan—							
Ore and concentrates ..	(a)	(a)	(a)	(a)	10,317	1,829	(a)
Refined copper	(a)	190	—	(a)	(a)	(a)	20,014
Syria and Lebanon—							
Bars, sheets, tubes and wire	1,160	(a)	(a)	(a)	(a)	(a)	(a)
Turkey—							
Ingots, bars, and sheets	992	931	457	595	797	131	222
Sulphate	1,056	1,646	436	886	705	544	971

(a) Information not available.

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

DIAMONDS
PRODUCTION OF DIAMONDS*
(Metric carats)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Gold Coast (exports)—							
Gem diamonds	253,443	262,397	320,356	} 963,435	944,103	1,768,013	2,051,496
Bort	241,104	202,003	297,516				
Diamond sand	314,453	282,634	260,220				
Sierra Leone	559,232	605,554	465,698	494,119	655,485	474,821	452,618
Southern Rhodesia	—	—	—	6	—	40	48
South West Africa	165,150	179,554	200,691	280,501	504,604	502,983	537,450
Tanganyika	120,045	87,943	149,926	194,874	164,996	108,625	143,023
Union of South Africa	1,349,099	1,242,423	1,382,327	1,264,795	1,731,510	2,228,911	2,383,211
British Guiana	31,732	24,669	36,563	34,790	37,462	43,260	38,305
India	1,107	1,284	2,426	1,632	2,769	1,674	2,054
Australia (Industrial)	50	73	—	5	130	129	49
TOTAL	3,034,000	2,888,500	3,115,700	3,231,050	4,041,100	5,128,500	5,608,300
FOREIGN COUNTRIES							
Angola	806,962	799,210	795,509	769,981	538,867	734,324	743,302
Belgian Congo—							
Gem diamonds	367,099	540,690	550,814	550,423	543,342	537,652	594,988
Industrial do.	5,666,353	4,933,827	5,273,753	9,099,545	9,604,128	10,027,103	11,013,840
French Equatorial Africa	87,230	107,076	118,800	122,928	111,407	147,791	156,708
French West Africa	51,834	53,749	77,970	94,996	124,568	100,980	136,080
Brazil (b)	325,000	275,000	250,000	250,000	250,000	250,000	250,000
Venezuela	20,912	61,634	75,512	56,662	60,389	63,226	92,280
TOTAL	7,325,000	6,771,000	7,142,000	10,945,000	11,233,000	11,861,000	12,987,000
WORLD'S TOTAL	10,359,000	9,660,000	10,258,000	14,176,000	15,274,000	16,989,000	18,595,000

* For Values see next page.

(a) Information not available.

(b) Estimated.

PRODUCTION OF DIAMONDS*

(£ sterling)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Gold Coast (exports)—							
Gem diamonds	338,225	402,492	616,513	} 1,390,636	1,837,452	5,981,816	5,547,027
Bort	71,393	74,873	107,287				
Diamond sand	212,907	269,197	252,260				
Sierra Leone	806,412	1,211,108	1,106,032	1,173,532	1,884,519	1,367,805	1,584,163
Southern Rhodesia	—	—	—	26	—	200	478
South West Africa	1,694,500	1,920,869	2,369,104	3,512,700	6,631,551	9,586,261	10,494,864
Tanganyika	(b) 986,870	(b) 602,410	(b) 1,083,215	(b) 1,679,976	(d) 1,926,000	(d) 1,125,000	(d) 1,746,000
Union of South Africa (d) ..	9,041,762	7,166,528	8,719,356	7,646,727	10,854,496	14,043,432	14,013,544
British Guiana	288,718	155,659	295,679	243,350	(b) 287,259	(b) 385,706	(b) 308,738
India	13,314	12,952	31,311	20,630	31,347	40,087	35,881
Australia	115	215	—	12	216	206	94
TOTAL	13,040,000	11,816,300	14,480,800	15,638,000	23,453,000	32,531,000	33,731,000
FOREIGN COUNTRIES							
Angola	1,622,000	1,891,000	1,864,000	2,524,000	2,138,000	3,422,000	4,009,000
Belgian Congo—							
Gem diamonds	} 62,051,000	(b) 1,369,000	617,455	631,454	(b) 766,000	782,000	949,000
Industrial do.			836,013	2,022,243	b 2,920,000	3,474,000	4,807,000
French Equatorial Africa ..	414,000	484,000	388,000	558,000	727,000	501,000	905,000
French West Africa	73,000	64,000	72,000	207,000	408,000	351,000	580,000
Brazil (estimated) (c) ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Venezuela	71,648	189,836	119,000	566,000	586,000	518,000	737,000
TOTAL	5,300,000	5,000,000	4,900,000	7,509,000	8,545,000	10,048,000	12,987,000
WORLD'S TOTAL	18,340,000	16,820,000	19,380,000	23,150,000	31,998,000	42,579,000	46,718,000

* For Quantities in Metric Carats see previous page.

(a) Information not available.

(b) Estimated on export value.

(c) An allowance has been made for this in the totals.

(d) Estimated.

EXPORTS OF DIAMONDS

(Domestic Produce)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Gold Coast—							
Gem diamonds .. Ct.	253,443	262,397	320,356	963,435	944,103	1,768,013	2,051,496
£	338,225	402,492	616,513				
Bort Ct.	241,104	202,003	297,516				
£	71,393	74,873	107,287	1,390,636	1,837,452	5,981,816	5,547,027
Diamond sand .. Ct.	314,453	282,634	260,220				
£	212,907	269,197	252,260				
Sierra Leone .. Ct.	304,896	574,336	461,685	537,397	638,312	477,130	423,327
£	(a)	(a)	923,368	1,097,816	1,555,994	1,371,749	1,217,059
South West Africa (uncut)							
Ct.	153,452	189,072	208,907	251,611	455,288	431,954	640,969
£ (S.A.)	1,362,794	2,092,244	2,586,560	3,089,814	6,704,978	9,671,800	12,526,610
Tanganyika—							
Gem diamonds .. Ct.	62,782	45,833	61,213	83,757	40,771	4,423	201,106
£	787,621	487,065	790,939	1,289,856	713,716	67,616	3,504,502
Industrial diamonds Ct.	56,664	46,397	86,691	107,947	29,796	4,165	130,367
£	194,212	144,585	278,830	362,551	110,159	21,337	542,076
Union of South Africa—							
Uncut Ct.	835,460	1,175,453	896,901	1,079,565	2,919,842	4,483,279	4,491,207
£ (S.A.)	6,107,776	7,278,894	6,211,448	5,891,819	12,014,868	15,379,386	17,710,235
Cut and polished Ct.	80,474	59,959	77,399	79,305	113,591	116,819	110,277
£ (S.A.)	5,959,192	3,657,407	5,205,515	4,859,699	8,118,920	9,832,098	9,274,728
Canada—							
Industrial diamonds and dust Ct.	(a)	10,000	—	—	—	—	—
£	(a)	2,743	—	—	—	—	—
British Guiana .. Ct.	29,360	26,553	34,808	35,234	37,033	39,684	38,180
£	266,509	168,409	276,047	247,747	284,038	353,849	307,841
Hong Kong (re-exports)—							
Gem diamonds .. £	(a)	(a)	(a)	(a)	(a)	(a)	491,004
Malaya (re-exports) £	209	842	9,921	12,398	44,506	55,591	120,535
Australia (incl. re-exports)—							
Gem diamonds (b) Ct.	(a)	(a)	(a)	617	—	—	—
£ (A.)	(a)	(a)	(a)	1,288	—	—	—
Industrial diamonds Ct.	(a)	(a)	(a)	—	13,930	11,970	30,211
£ (A.)	(a)	(a)	(a)	—	13,235	21,822	45,437
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Cut and polished Ct.	294,745	330,210	264,426	244,166	436,414	519,363	478,000
£	12,826,484	11,575,092	9,381,362	7,475,482	15,860,101	20,058,474	18,410,000
Industrial diamonds Ct.	244,817	576,302	855,631	1,200,354	1,600,524	1,130,214	682,000
£	553,557	988,558	1,355,520	2,403,948	2,949,692	3,698,520	2,418,000
Czechoslovakia—							
Glaziers' diamonds £	460	649	(c) 10	(a)	(a)	(a)	(a)
France—							
Uncut £	(a)	(a)	—	—	325,781	483,457	96,807
Cut £	(a)	(a)	25,844	66,952	1,673,377	1,327,120	1,578,208
Netherlands—							
Unpolished .. £	220,000	(a)	(a)	(a)	(a)	(a)	(a)
Polished £	2,300,000	(a)	(a)	(a)	(a)	(a)	(a)
Industrial diamonds £	98,000	(a)	(a)	(a)	(a)	(a)	(a)
Angola Ct.	808,443	802,099	672,985	889,377	555,330	718,312	742,272
£	1,744,425	2,015,150	2,003,038	3,220,185	2,285,339	3,489,481	3,601,013

(a) Information not available.

(b) Years ended June 30 of that stated.

(c) January to October only.

EXPORTS OF DIAMONDS (Cont.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Belgian Congo—							
Gem diamonds .. Ct.	1,306,516	1,150,750	10,841,000	9,822,978	536,307	617,216	530,168
£	1,422,589	1,159,269						844,533
Industrial diamonds Ct.	4,751,267	6,786,000	3,450,000	3,818,000	758,491	894,164	844,533
£	654,142	829,586			9,163,290	9,714,159	10,985,791
French Equatorial Africa—							
Ct.	142,000	140,476	124,801	132,897	135,600	147,461	155,541
£	550,000	511,418	(a)	608,000	456,000	500,600	696,000
French West Africa							
Ct.	95,000	29,908	34,870	85,140	128,960	112,580	117,442
£	167,000	29,584	37,056	62,170	76,122	(a)	(a)
United States—							
Uncut Ct.	(a)	(a)	(a)	4,602	4,234	712	6,971
£	(a)	(a)	(a)	37,851	32,054	10,498	59,220
Cut Ct.	(a)	(a)	(a)	5,238	6,388	6,050	3,331
£	(a)	(a)	(a)	243,852	696,679	685,886	515,487
Industrial diamonds Ct.	95,003	92,626	47,747	25,760	(a)	9,490	653
£	117,617	127,115	77,510	51,070	(a)	27,529	7,525
Dust Ct.	116,650	122,925	52,600	55,637	58,563	60,621	79,183
£	36,350	80,539	19,938	37,204	45,032	59,478	77,461
Brazil (b)—							
Uncut Ct.	113,815	133,075	59,275	37,225	(a)	(a)	(a)
£	986,274	510,736	208,969	(a)	(a)	(a)	(a)
Cut Ct.	12,645	10,325	1,155	420	(a)	(a)	(a)
£	597,608	184,226	40,432	(a)	(a)	(a)	(a)
Carbons Ct.	14,070	10,620	35,070	14,300	(a)	(a)	(a)
£	57,690	24,741	108,241	(a)	(a)	(a)	(a)
Venezuela Ct.	11,148	55,449	75,000	15,000	(a)	(a)	95,502
£	150,000	310,000	305,000	(a)	(a)	(a)	(a)
Israel—							
Polished Ct.	116,588	(a)	(a)	75,668	119,510	(a)	(a)
£l	5,502,878	(a)	(a)	1,830,770	3,146,702	4,167,574	(a)
Powder Ct.	1,100	(a)	(a)	32,481	(a)	(a)	(a)
£l	165	(a)	(a)	33,768	(a)	(a)	(a)

(a) Information not available.

(b) The actual exports are estimated to be much in excess of those officially recorded.

IMPORTS OF DIAMONDS

(Less Re-exports)

Importing Country and Description		1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES								
United Kingdom (b)	Ct.	9,307,118	8,769,070	13,833,486	13,542,619	14,780,625	17,144,539	19,890,000
	£	12,988,187	15,721,644	15,685,761	17,785,060	28,293,792	37,097,275	50,170,000
Kenya	Ct.	(a)	(a)	60	73	77	357	47
	£	(a)	(a)	547	3,547	1,899	7,468	2,848
Northern Rhodesia—								
Uncut	Ct.	27,068	10,732	301	1,800	500	200	44
	£	20,480	9,890	242	1,689	550	270	430
Union of South Africa—								
Rough diamonds	Ct.	3,202,027	1,228,376	(d) 1,248,627	6,771,247	4,897,767	1,072,683	(g) 12,770,452
	£ (S.A.)	987,383	62,751	(d) 678,237	1,594,365	(c) 2,262,635	(c) 8,360,946	(g) 9,925,185
Cut and polished	Ct.	519	1,345	999	96	2	—	(a)
	£ (S.A.)	19,985	17,629	36,365	2,931	49	—	(a)
Canada—								
Unset	Ct.	(a)	14,954	37,392	44,443	44,297	40,624	39,756
	£	1,439,589	699,739	1,272,390	1,592,288	2,280,063	2,296,503	2,072,417
Dust, bort, etc. ..	Ct.	(a)	100,732	233,188	261,769	531,561	577,838	818,749
	£	943,976	265,820	358,569	437,051	944,738	1,311,390	1,884,666
Bermuda	£	2,417	—	—	—	(a)	(a)	264,989
Ceylon	Ct.	—	—	334	342	1,140	1,446	1,679
	£	—	—	15,953	19,676	67,056	98,215	97,978
Hong Kong (total imports)—								
Gem diamonds	£	(a)	(a)	(a)	(a)	(a)	(a)	1,693,236
Industrial diamonds	£	(a)	(a)	(a)	(a)	(a)	(a)	806
India	£	1,691,369	2,409,045	562,345	325,630	893	—	2,200
Malaya (total imports)	£	—	20,484	10,496	37,108	36,916	4,886	13,585
Australia—								
Industrial diamonds	Ct.	(a)	(e) 101,577	(e) 247,344	190,694	208,518	195,994	240,698
	£A	(e) 96,025	(e) 108,034	(e) 226,348	319,558	459,591	444,470	527,063
Other diamonds	Ct.	(a)	(e) 11,277	(e) 78,184	(e) (f) 24,722	96,116	67,504	7,267
	£A	(e) 296,833	(e) 460,516	(e) 613,818	(e) (f) 745,647	1,124,158	1,245,527	311,524
New Zealand—								
Industrial diamonds	£N.Z.	(a)	(a)	(a)	(a)	1,297	145	(a)
Other diamonds	£N.Z.	(a)	(a)	(a)	(a)	122,602	283,459	(a)
FOREIGN COUNTRIES								
Belgium-Luxemburg E.U.—								
Cut diamonds	Ct.	—	12,614	2,374	(a)	31,441	26,461	10,600
	£	—	463,099	57,255	(a)	1,408,852	1,297,388	552,000
Rough diamonds	Ct.	2,051,738	1,579,037	1,332,612	1,472,603	2,782,712	2,726,285	3,297,000
	£	11,474,371	7,157,717	7,943,656	6,213,765	16,752,013	20,481,542	19,534,000
Industrial diamonds	Ct.	518,390	223,707	390,682	243,439	514,669	863,389	(a)
	£	104,596	90,426	149,218	297,750	445,805	855,729	(a)
Czechoslovakia—								
Glaziers' diamonds	£	89	1,488	—	(a)	(a)	(a)	(a)

(a) Information not available.

(b) Declared imports represent a very small proportion of actual imports. These figures, therefore, represent exports of Rough Diamonds from the Union of South Africa, South-West Africa, Gold Coast, Sierra Leone, Tanganyika, Angola and Belgian Congo to the United Kingdom as recorded by those countries.

No figures are available as to the quantities re-exported from the United Kingdom.

(c) Excess of re-exports by value only. In 1950 total imports amounted to 16,620,678 carats valued £7,148,360 and re-exports to 11,722,911 carats valued £9,410,995. In 1951 total imports amounted to 12,996,707 carats valued £6,065,139 and re-exports to 11,924,024 carats valued £14,426,085.

(d) Excess of re-exports.

(e) Years ended June 30 of that stated.

(f) Total imports. Re-exports amounted to 64,681 carats valued £ A. 53,078.

(g) Total imports. Re-exports, which are very large, are not available. E.g. see footnote (c) for previous years.

IMPORTS OF DIAMONDS (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
France—							
Uncut	£ (a)	(a)	(b) 1,673	(b) 158	1,073,635	1,494,206	1,286,954
Cut and polished	£ (a)	(a)	(a)	(a)	858,773	1,623,913	1,362,827
Netherlands—							
Unpolished ..	£ 2,000,000	(a)	2,070,000	(a)	(a)	(a)	(a)
Polished	£ 50,000	(a)	240,500	(a)	(a)	(a)	(a)
Industrial diamonds	£ 130,000	(a)	546,000	(a)	(a)	(a)	(a)
Egypt—							
Cut	Ct. 74	(a)	(a)	(a)	(a)	(a)	(a)
	£ 849	(a)	(a)	(a)	(a)	(a)	(a)
Mexico—							
Uncut	Ct. 22,820	(a)	(a)	(a)	(a)	(a)	(a)
	£ 7,805	(a)	(a)	(a)	(a)	(a)	(a)
Cut	Ct. 19,830	(a)	(a)	(a)	(a)	(a)	(a)
	£ 511,501	(a)	(a)	(a)	(a)	(a)	(a)
Industrial diamonds	Ct. 323,590	723,135	136,615	(a)	231,195	320,600	(a)
	£ 8,144	20,325	(a)	(a)	21,826	24,278	(a)
United States—							
Uncut	Ct. 1,033,906	1,075,478	912,762	670,140	673,699	697,981	725,422
	£ 12,051,108	10,682,682	11,032,349	8,540,372	15,570,379	17,394,578	18,745,871
Cut and polished	Ct. 594,481	347,810	389,314	335,487	492,671	480,516	438,546
	£ 29,272,508	13,268,372	13,956,559	12,234,843	20,901,751	22,092,144	18,520,302
Industrial diamonds	Ct. 4,652,639	3,920,012	10,418,316	6,331,923	11,035,061	12,051,961	13,452,819
	£ 3,574,724	3,186,319	8,069,851	5,031,520	13,461,933	16,377,068	18,228,549
Dust	Ct. 77,732	116,391	226,430	101,300	128,715	166,760	244,429
	£ 32,077	57,106	153,416	67,346	74,231	168,391	284,212
Bort, manufactured	Ct. 2,104	1,679	612	1,060	2,694	6,659	11,631
	£ 15,800	23,815	17,128	21,726	62,698	147,394	140,287
Chile—							
Industrial diamonds	Ct. 3,100	(a)	(a)	(a)	(a)	(a)	(a)
	£ 3,833	(a)	(a)	(a)	(a)	(a)	(a)
Venezuela—							
Carbons	£ 14,400	51,837	1,700	(a)	(a)	(a)	(a)
Israel—							
Rough diamonds	Ct. 499,765	(a)	(a)	185,266	366,661	(a)	(a)
	£l 3,269,258	(a)	(a)	1,539,843	3,211,809	(a)	(a)
Bort	Ct. (a)	(a)	(a)	52,428	81,057	(a)	(a)
	£l (a)	(a)	(a)	31,987	54,434	(a)	(a)
Powder	Ct. 103,276	(a)	(a)	3,540	6,552	(a)	(a)
	£l 28,141	(a)	(a)	3,127	4,860	(a)	(a)
Philippine Republic—							
Diamonds	Ct. 4,322	(a)	(a)	(a)	(a)	(a)	(a)
	£ 33,819	(a)	(a)	(a)	(a)	(a)	(a)
Dust and bort ..	Ct. 100	(a)	(a)	(a)	(a)	(a)	(a)
	£ 371	(a)	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

(b) Industrial diamonds.

DIATOMACEOUS EARTH

PRODUCTION OF DIATOMACEOUS EARTH

(Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Great Britain	2,000	2,328	7,000	10,600	3,736	(c) 9,200	17,000
Northern Ireland	7,049	8,638	6,858	7,789	6,443	8,726	8,698
Kenya	508	724	1,019	2,189	2,572	4,218	5,932
Union of South Africa	147	713	1,289	1,137	429	—	1,062
Canada (Shipments)	80	92	41	54	44	82	22
Australia	4,957	5,543	4,438	4,063	6,221	8,729	6,366
New Zealand	348	436	103	94	119	119	204
FOREIGN COUNTRIES							
Austria	848	1,941	4,719	3,480	3,233	3,832	3,839
Denmark—							
Diatomaceous earth	1,895	4,510	5,717	3,974	4,057	4,782	(a)
Moler (b)	40,000	60,000	70,000	70,000	70,000	95,000	100,000
Finland	815	830	1,067	1,434	1,009	1,324	1,103
France	20,122	29,042	47,583	37,038	68,559	(a)	(a)
Germany (Federal)	(a)	(a)	(a)	28,872	33,175	43,258	47,096
Italy	3,110	2,357	5,128	6,524	11,306	(a)	(a)
Spain	768	(a)	(a)	(a)	(a)	(a)	(a)
Sweden	1,626	1,673	1,737	1,815	1,752	1,818	(a)
Algeria	5,866	6,437	8,276	13,366	13,493	20,660	19,700
Egypt	1,366	1,319	1,343	1,159	1,045	2,709	700
United States	(d) 190,704	(d) 190,704	(e) 215,080	(e) 215,080	(e) 215,080	(b) 261,000	(a)
Chile	(a)	(a)	1,044	3,261	152	(a)	(a)
Costa Rica	(a)	(a)	(a)	(a)	(a)	(a)	6,700

Diatomaceous earth is also produced in Hungary, Norway, Portugal, Roumania, U.S.S.R., Argentina, Brazil, Japan and Korea.

(a) Information not available.

(b) Estimated.

(c) Revised.

(d) Average annual production 1945-1947

(e) Average annual production 1948-1950.

EXPORTS OF DIATOMACEOUS EARTH

(Domestic Produce)

(Long tons)

Exporting Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Canada (including other natural abrasives) ..	3	53	15	7	6	19	17
Australia	65	168	144	85	136	88	90
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.	(a)	(a)	6,733	391	1,042	1,185	296
Denmark—							
Diatomaceous earth ..	(a)	(a)	(a)	(a)	(a)	3,907	5,170
Moler	35,884	47,371	55,712	50,742	57,120	75,599	78,892
Moler bricks	3,496	4,388	6,497	6,435	6,618	9,654	8,699
Finland	88	59	107	—	18	—	(a)
France (incl. tripoli, etc.)..	1,310	1,596	877	875	897	1,736	1,921
Germany (Federal)	(a)	(a)	268	626	1,815	3,892	5,780
Italy.. ..	(a)	15	5	84	140	33	137
Norway	125	214	280	106	207	20	—
Portugal	1	13	26	42	18	43	74
Sweden	23	—	41	8	118	31	36
Algeria (b)	5,687	3,524	6,703	11,190	11,112	14,570	6,594
Mozambique	—	15	—	—	—	89	(a)
Brazil	—	—	—	—	(a)	(a)	(a)
Chile	80	(a)	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

(b) Including tripoli, etc., up to 1951 inclusive.

IMPORTS OF DIATOMACEOUS EARTH

(Less Re-exports)

(Long tons)

Importing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom	32,361	48,962	52,114	46,087	52,183	61,347	46,006
Union of South Africa ..	205	250	361	453	224	614	(a)
Canada	15,235	13,459	15,358	15,102	16,292	18,811	14,186
Australia	585	1,495	572	1,275	1,651	1,430	835
New Zealand	(a)	(a)	(a)	(a)	409	206	(a)
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.	(a)	(a)	2,277	3,628	5,505	11,682	11,821
Denmark	24	25	89	134	314	104	161
Finland (total imports) ..	3	71	103	54	164	599	(a)
France (incl. tripoli, etc.)..	4,689	2,974	3,211	4,849	5,059	6,893	6,085
Germany	(a)	(a)	1,886	10,189	14,828	31,513	42,651
Iceland	(a)	(a)	(a)	16	11	37	(a)
Italy	(a)	22	161	129	333	520	1,390
Netherlands	(a)	(a)	2,805	2,363	2,917	4,484	2,676
Norway	455	1,142	1,540	2,761	4,396	3,126	2,946
Portugal	82	119	73	138	96	297	101
Sweden	753	862	710	468	681	747	411
Yugoslavia	(a)	(a)	(a)	(a)	69	167	44
Algeria (incl. tripoli, etc.)..	30	12	46	5	61	83	33
Egypt (total imports) ..	58	64	1	5	26	54	453
Tunis	139	126	4	(a)	(a)	(a)	(a)
Cuba (total imports) ..	(a)	(a)	2,460	2,911	5,116	3,558	(a)
Mexico	1,156	1,825	1,484	2,553	2,540	2,390	1,969
Chile	—	127	144	(a)	(a)	(a)	(a)
Peru	274	(a)	702	198	230	412	556
Venezuela (incl. tripoli, etc.)	175	282	141	395	(a)	(a)	(a)
Turkey	230	206	107	375	403	500	547

(a) Information not available.

EXPORTS OF FELSPAR

(Domestic Produce)

(Long tons)

Exporting Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom	2,998	2,005	1,234	1,272	(a)	(a)	(a)
Canada	17,178	16,349	28,096	15,687	13,808	17,707	5,679
Palestine	3	(a)	(a)	(d)	(d)	(d)	(d)
Australia	(a)	(a)	(f) 80	(f) 210	388	462	982
FOREIGN COUNTRIES							
Austria	(a)	348	162	30	54	139	16
Czecho-slovakia	130	15	—	(a)	(a)	(a)	(a)
Finland	3,293	4,361	3,641	6,388	6,595	7,479	(a)
France	841	3,339	4,361	5,690	6,416	8,419	5,910
Germany (Federal) ..	(a)	(a)	2,631	5,734	6,373	(e) 28,653	(c) 67,397
Italy	(a)	(a)	(a)	(a)	(b) 303	1,711	1,370
Netherlands	—	1,649	2,302	2,303	1,402	2,793	2,244
Norway—							
Crude	4,947	15,922	22,139	15,337	14,505	25,018	21,503
Ground	2,257	7,220	7,515	6,249	6,012	5,907	3,896
Sweden	18,651	22,347	20,463	19,165	24,971	28,573	30,534
Israel	(e)	(e)	(e)	267	779	(a)	(a)

(a) Information not available.

(b) July to December only.

(c) Including fluorspar.

(d) See "Israel" under Foreign Countries

(e) See "Palestine" under British Countries.

(f) Years ended June 30 of that stated.

IMPORTS OF FELSPAR

(Less Re-exports)

(Long tons)

Importing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom	10,309	9,295	14,644	9,798	19,460	26,355	23,038
Canada	629	287	185	204	128	174	138
Palestine	83	(a)	(a)	(a)	(a)	(a)	(a)
Australia	—	—	(e) 35	118	273	356	332
New Zealand	(a)	(a)	(a)	(a)	177	314	(a)
FOREIGN COUNTRIES							
Austria	(a)	—	53	32	199	265	715
Czechoslovakia	50	1,890	(c) 250	(a)	(a)	(a)	(a)
Denmark	1,450	2,221	3,195	3,429	3,137	2,806	2,772
Finland (total imports) ..	—	—	111	48	—	15	(a)
France	549	1,801	3,738	3,657	4,361	18,750	10,259
Germany (Federal) ..	(a)	(a)	1,748	2,799	6,021	(d) 6,639	(d) 12,092
Italy	(a)	(a)	(a)	(a)	(b) 25	1,076	950
Netherlands	2,060	8,066	8,200	6,490	10,761	14,064	8,428
Sweden	1,891	3,555	1,094	443	15	369	165
Yugoslavia	(a)	(a)	(a)	(a)	103	79	(a)
Mexico	1,699	3,536	3,817	3,013	2,980	2,486	2,213
United States	16,365	16,685	31,047	15,826	12,367	17,128	5,576
Chile	7	(a)	(a)	(a)	(a)	(a)	(a)
Venezuela	—	106	18	(a)	(a)	(a)	(a)

(a) Information not available.

(b) July to December only.

(c) January to October only.

(d) Including fluorspar.

(e) Year ended June 30 of that stated.

FELSPAR

PRODUCTION OF FELSPAR

(Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Great Britain—							
China stone	36,495	47,709	54,591	64,258	68,364	69,888	48,729
Kenya	43	35	10	20	—	—	—
Southern Rhodesia ..	—	—	—	—	3,464	1,129	—
Union of South Africa ..	1,537	1,649	2,533	3,493	5,096	3,290	7,361
Canada	31,467	32,236	48,974	32,989	31,739	36,383	19,429
India	1,283	1,722	987	849	1,722	3,385	2,020
Palestine	52	(a)	(a)	(a)	(a)	(a)	(a)
Australia (including china stone)	7,856	8,431	9,613	10,730	13,066	14,842	13,589
FOREIGN COUNTRIES							
Austria	758	936	1,089	1,882	3,847	3,701	2,538
Belgium	(a)	(a)	(a)	1,147	600	—	(a)
Finland	3,563	2,013	5,968	9,915	8,899	8,069	9,635
France	27,745	43,407	54,469	46,764	41,498	58,830	(a)
Germany (Federal)	(a)	(a)	(a)	47,500	75,500	70,401	117,407
Italy	8,043	9,431	15,067	13,308	17,786	28,684	25,074
Norway—							
Unground	2,808	15,863	23,008	19,048	17,534	23,024	21,704
Ground	2,440	5,927	9,586	8,000	5,787	7,602	7,131
Portugal	842	1,119	1,535	1,220	—	463	(a)
Spain (b)	(a)	(a)	7,841	(a)	8,124	10,869	10,196
Sweden (sales)—							
Unground	11,100	21,604	21,268	22,723	18,005	25,955	(a)
Ground	13,777	15,749	16,808	15,620	17,457	15,089	(a)
Egypt	—	—	—	—	—	—	—
Madagascar	12	—	—	—	—	—	—
United States (sales) ..	508,380	459,910	460,713	369,378	407,925	400,439	420,831
Argentina	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Brazil	(a)	(a)	186	10,936	(a)	(a)	(a)
Chile	(a)	214	871	124	857	1,181	(a)
Peru	171	29	207	295	—	129	—
Uruguay	458	830	4,800	798	699	664	884
Japan	(a)	21,157	24,681	19,738	12,979	26,109	23,812
TOTAL*	695,000	720,000	800,000	700,000	770,000	820,000	850,000

*Excluding felspar produced in Czechoslovakia, Roumania, U.S.S.R., China, French Indo-China and Manchuria.

(a) Information not available.

(b) In addition the following amounts were obtained from quarries (cubic metres): 1947—1,515; 1948—3,000; 1949—180; 1950—750; 1951—800.

FLUORSPAR

PRODUCTION OF FLUORSPAR

(Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom (b) ..	46,454	63,342	65,494	66,508	63,008	74,754	75,823
Southern Rhodesia ..	—	152	12	236	440	109	—
South West Africa ..	—	—	—	—	71	767	4,348
Union of South Africa ..	4,745	4,739	3,695	4,780	6,838	12,087	10,128
Canada	7,180	6,416	10,125	57,569	57,333	66,260	74,422
Newfoundland	11,432	22,985	71,096				
India	—	—	—	—	—	—	—
Australia	1,182	1,200	511	562	576	489	86
FOREIGN COUNTRIES							
Belgium	—	2,027	4,153	(a)	(a)	(a)	(a)
France	18,931	31,097	32,914	45,302	40,664	53,537	53,000
Germany (Federal) ..	(c) (d) 2,077	(d) 6,392	48,565	46,200	88,308	141,471	154,853
Italy	7,683	19,962	39,993	20,481	28,722	40,371	57,757
Norway	4,517	1,072	1,102	881	825	889	669
Spain	8,574	13,666	41,877	58,653	(g) 32,644	(g) 58,732	72,056
Sweden (sales)	3,662	2,736	4,235	—	4,216	5,007	(a)
Morocco (French) ..	(a)	(a)	10	492	39	1,937	3,252
Tunis	—	—	515	346	—	—	2,923
Mexico (e)	19,797	45,017	74,190	54,893	64,708	65,706	177,393
United States (f) ..	248,161	294,182	296,204	211,343	269,205	309,843	298,008
Argentina	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Bolivia (e)	—	27	223	260	60	38	79
Brazil	—	828	739	529	(a)	(a)	(a)
Japan	307	94	67	945	2,386	3,933	3,815
Korea (South)	(a)	(a)	(a)	1,211	(a)	4,769	5,465
Turkey	113	—	—	492	—	—	—
TOTAL* (g) ..	515,000	646,000	826,000	706,000	795,000	976,000	1,140,000

* Including estimates for fluor spar produced in the U.S.S.R. and China.

(a) Information not available.

(b) Except for 1946, figures have been revised to include fluor spar recovered from old lead and zinc mine dumps.

(c) August to December only.

(d) French Zone only.

(e) Exports.

(f) Shipments.

(g) Revised.

EXPORTS OF FLUORSPAR

(Domestic Produce)

(Long tons)

Exporting Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom	1,777	1,697	2,131	1,085	(a)	(a)	(a)
South West Africa	—	—	—	—	—	840	3,187
Union of South Africa	193	58	59	32	41	7,712	5,079
Canada	—	—	—	} 13,700	12,713	19,162	16,674
Newfoundland (b)	27,932	34,050	32,102				
FOREIGN COUNTRIES							
France	575	995	578	2,371	3,670	2,831	2,284
Germany (Federal)	(a)	(a)	16,309	20,842	53,601	(d) 79,856	(d) 67,397
Italy	(a)	(a)	(a)	(a)	(c) 3,303	21,133	34,073
Norway	426	346	724	376	169	(a)	(a)
Sweden	1,616	833	635	234	34	26	52
Morocco (French)	(a)	(a)	(a)	(a)	(a)	522	2,047
Tunis	—	—	10	(a)	708	86	2,057
Mexico	19,797	45,017	74,190	54,893	64,708	65,706	177,393
United States	1,656	1,186	663	683	614	976	603
Bolivia	—	27	223	260	60	38	79
Korea (South)	—	334	—	(a)	(a)	(a)	(a)

(a) Information not available.

(b) Years ended March 31 of year following that stated. Included with Canada from April 1, 1949.

(c) July to December only.

(d) Including feldspar.

IMPORTS OF FLUORSPAR

(Less Re-exports)

(Long tons)

Importing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Canada (b)	28,405	28,573	43,683	2,241	1,404	7,311	20,280
Australia	(c) 100	(c) 40	42	70	408	933	855
New Zealand	(a)	(a)	(a)	(a)	5	5	(a)
FOREIGN COUNTRIES							
Austria	(a)	993	1,937	3,735	6,665	7,229	3,667
Denmark	703	620	637	661	575	711	394
France	8,687	10,579	298	—	720	—	635
Germany (Federal)	(a)	(a)	—	—	—	(d) 1,187	(d) 12,092
Netherlands	(a)	(a)	1,785	1,931	2,825	3,015	3,600
Norway	212	460	1,134	254	1,758	234	130
Portugal	17	21	9	35	34	32	20
Sweden	2,703	2,743	5,676	881	2,145	6,152	4,388
Mexico	38	44	2	2	5	37	4
United States	26,654	70,290	99,666	85,374	146,995	161,852	314,436
Peru	255	(a)	(a)	(a)	(a)	(a)	(a)
Japan	386	—	842	21,932	6,152	47,683	10,424

(a) Information not available.

(b) Including Newfoundland from April 1, 1949.

(c) Year ended June 30 of that stated.

(d) Including feldspar.

FULLER'S EARTH
PRODUCTION OF FULLER'S EARTH
(Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Union of South Africa ..	(a)	(a)	(b) 715	1,549	2,079	2,504	1,704
India	9,418	2,831	6,011	4,852	4,560	4,000	5,596
Pakistan	(a)	5,752	4,814	(a)	(a)	(a)	(a)
Australia	420	40	132	119	40	60	110
New Zealand	75	31	68	—	—	—	—
FOREIGN COUNTRIES							
United States (sales) ..	266,743	293,811	305,429	286,532	353,594	431,806	377,547

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

(a) Information not available.

(b) Sales.

EXPORTS OF FULLER'S EARTH*
(Long tons)

Exporting Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Australia	(a)	(a)	(b) 46	136	—	—	—
FOREIGN COUNTRIES							
Italy	(a)	(a)	(a)	(a)	(d) 85	181	56
United States (c) ..	15,846	8,500	9,500	10,800	14,600	(a)	(a)

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

(a) Information not available.

(b) Year ended June 30 of that stated.

(c) As recorded by producers.

(d) July to December only.

IMPORTS OF FULLER'S EARTH
(Less Re-exports)
(Long tons)

Importing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Union of South Africa ..	718	369	128	182	336	669	(a)
Canada	(£17,629)	(£21,456)	(£23,343)	(£27,578)	(£39,211)	(£45,009)	(£62,798)
Ceylon	76	41	—	—	4	36	61
Australia	657	519	390	591	598	458	7
New Zealand	(a)	(a)	(a)	(a)	196	89	(a)
FOREIGN COUNTRIES							
Austria	(a)	(a)	(a)	480	509	587	416
Italy	(a)	(a)	(a)	(a)	(b) 443	340	599
Belgian Congo	5	37	(a)	(a)	1,242	725	(a)
Mexico	820	1,347	982	1,153	1,739	3,948	2,681
United States—							
Crude	8	41	30	31	—	36	18
Prepared	165	97	85	316	212	326	122
Peru	265	(a)	(a)	207	(a)	437	374
Venezuela	143	140	18	41	(a)	(a)	(a)
Philippine Republic ..	(a)	(a)	(a)	(a)	237	216	(a)

(a) Information not available.

(b) July to December only.

GOLD

PRODUCTION OF GOLD ORE

(In terms of metal)

(Fine troy ounces)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Anglo-Egyptian Sudan ..	3,670	3,725	3,579	4,114	3,533	1,495	1,545
Bechuanaland Protectorate	9,738	7,382	1,502	300	264	493	1,245
Gold Coast	585,910	558,011	672,388	676,931	689,429	698,676	691,460
Kenya	29,892	21,959	23,429	20,072	22,946	19,765	10,210
Nigeria	4,881	2,203	2,899	2,515	2,237	1,588	1,079
Northern Rhodesia ..	6,838	779	1,180	1,186	1,432	857	2,523
Southern Rhodesia ..	544,596	522,735	514,440	528,180	511,163	486,907	496,731
Sierra Leone	183	2,400	2,400	2,330	3,484	3,261	2,638
South West Africa ..	(a)	37	469	(a)	(a)	(a)	(a)
Swaziland	4,914	5,637	3,110	2,841	1,794	322	1
Tanganyika	49,952	46,842	57,189	69,042	(f) 66,615	(f) 64,534	(f) 68,274
Uganda (b)	2,176	1,366	1,158	648	509	184	166
Union of South Africa	11,927,165	11,200,281	11,584,849	11,705,048	11,663,713	11,516,450	11,818,681
Canada	2,832,554	3,070,221	3,529,608	} 4,123,518	4,441,227	4,392,751	4,471,939
Newfoundland	15,751	13,583	12,252				
British Guiana	(e) 22,267	(e) 23,750	(e) 18,623	(e) 18,988	(e) 12,366	13,485	22,237
India	131,775	171,705	180,430	164,203	196,925	226,357	252,911
Malaya (estimated) ..	400	4,800	9,100	13,000	17,600	16,200	18,800
Sarawak	17	389	599	1,523	1,440	931	843
Australia	824,480	937,654	890,802	889,057	867,837	895,551	980,435
Fiji	82,401	94,353	93,059	104,036	103,423	95,635	78,282
New Guinea	661	59,202	86,556	93,045	(c) 81,764	(c) 94,438	(c) 127,580
New Zealand	119,271	112,260	93,903	84,874	76,527	75,115	59,151
Papua	(a)	550	202	836	(d)	(d)	(d)
TOTAL	17,199,000	16,863,000	17,784,000	18,507,000	18,766,000	18,605,000	19,108,000
FOREIGN COUNTRIES							
Finland	7,330	10,642	11,317	11,417	6,559	18,069	19,741
France	48,355	42,407	47,519	55,537	63,755	68,127	(a)
Germany	(a)	(a)	(a)	(a)	(a)	1,479	2,025
Italy	9,259	12,716	19,978	11,478	11,989	13,564	16,731
Portugal	6,687	15,754	11,799	10,885	15,465	18,358	17,940
Roumania	80,377	74,686	90,000	112,528	(a)	(a)	(a)
Sweden	91,372	75,586	71,889	80,280	78,866	70,474	(a)
Angola	551	360	434	319	201	61	40
Belgian Congo	331,313	301,445	299,774	333,853	339,415	352,308	368,769
Cameroon (French) (e)	10,607	10,236	9,528	7,955	6,381	4,835	2,318
Egypt	2,793	2,090	3,853	7,045	10,724	14,037	17,059
Eritrea	3,411	3,540	2,242	2,243	1,109	(a)	(a)

(a) Information not available.

(b) Exports.

(c) Including Papua.

(d) Included with New Guinea.

(e) Revised.

(f) Including gold in lead concentrates exported amounting to 114 troy ounces in 1950, 814 ounces in 1950 and 2,738 ounces in 1952.

PRODUCTION OF GOLD ORE (Cont.)

Producing Country	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Ethiopia (b)	(c) 51,528	(c) 27,382	41,595	45,102	43,524	32,938	27,291
French Equatorial Africa (h)	63,666	62,465	56,713	50,961	48,947	47,036	45,971
French West Africa (h) ..	6,308	5,006	18,461	46,639	(g) 4,326	(g) 1,765	(g) 1,331
Liberia (c)	16,506	16,998	13,797	13,183	12,110	(a)	(a)
Madagascar (h)	3,501	1,369	1,886	1,496	1,742	1,753	1,591
Morocco (French)	—	—	—	—	119	2,058	4,051
Mozambique	5,765	5,401	4,734	2,468	996	868	(a)
Costa Rica (b)	1,739	(e) 1,988	(e) 1,096	(e) 284	(e) 115	(e) 1	(d) 2,000
Cuba	1,105	364	334	(e) 5,692	(e) 6,915	(e) 835	(a)
Dominican Republic	646	—	—	(c) 1,114	(c) 534	(c) 460	(a)
Guatemala	32	(e) 35	(e) 16	(e) 5	(e) 397	(e) 7	(a)
Haiti	41	—	—	—	—	—	—
Honduras	12,094	11,929	14,265	25,832	30,380	31,216	35,040
Mexico	420,500	464,739	367,612	405,549	408,122	393,429	459,370
Nicaragua	210,026	216,700	218,019	218,831	231,037	251,869	254,059
Panama	—	—	1,000	9,657	1,118	2,712	—
Salvador	21,809	10,755	20,778	27,091	27,547	24,225	25,732
United States	1,574,505	2,109,185	2,014,257	1,991,783	2,394,231	1,957,543	1,886,036
Argentina	8,038	(d) 8,000	(d) 8,000	(d) 8,000	(a)	(a)	(a)
Bolivia	16,701	20,108	2,642	32,440	1,736	1,275	9,000
Brazil	140,482	135,548	130,243	119,182	131,207	135,837	136,764
Chile (h)	230,874	171,138	164,130	184,770	186,474	174,964	177,054
Colombia	437,176	383,027	335,260	385,307	406,319	430,723	422,240
Dutch Guiana	4,630	4,125	4,177	3,794	4,533	6,494	6,109
Ecuador	73,512	57,250	79,207	100,177	96,908	12,683	24,267
French Guiana (h)	17,767	13,437	12,269	13,281	12,414	9,005	5,927
Peru	158,379	116,017	111,162	113,753	147,964	158,270	140,081
Uruguay	—	—	—	—	—	—	(a)
Venezuela	48,558	21,830	49,737	61,378	34,462	2,861	4,797
Burma	2	67	230	158	150	131	43
Formosa	(a)	7,750	13,115	16,607	21,820	30,543	(a)
Japan	42,825	55,171	69,060	84,556	135,033	177,472	200,936
Korea	193,000	329,000	(f) 2,098	(f) 3,408	(a)	(f) 7,613	(f) 18,636
Philippine Republic	1,055	65,030	209,225	287,838	333,991	393,600	469,408
Saudi Arabia	49,773	54,046	73,976	66,835	66,202	73,104	(a)
Turkey	(a)	(a)	(a)	10,700	(a)	(a)	(a)
* TOTAL	4,100,000	4,900,000	4,600,000	4,900,000	5,400,000	5,100,000	5,300,000
* WORLD'S TOTAL (excl. U.S.S.R.)	21,300,000	21,800,000	22,400,000	23,400,000	24,200,000	23,700,000	24,400,000

* In view of the wide divergences in estimates of the production of gold in the U.S.S.R. (ranging from 2-18 million ounces) figures for that country have been omitted.

(a) Information not available.

(b) Annual Report of the U.S. Min.

(c) Exports.

(d) Estimated.

(e) Imports into the United States.

(f) South Korea only.

(g) European producers only.

(h) Revised.

EXPORTS OF GOLD *

(Including re-exports)

(In terms of metal)

(Fine troy ounces)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Bullion—							
Unrefined	—	2,000	—	—	—	—	—
Refined	1,164,000	14,870,000	33,367,000	18,125,000	4,935,000	2,926,000	5,839,000
Coin	89,000	129,000	469,000	848,000	157,000	422,000	732,000
Anglo-Egyptian Sudan*—							
Bullion	3,500	1,200	300	(a)	—	—	(a)
Gold Coast—							
Bullion	646,559	568,471	670,645	656,431	705,182	692,301	711,096
Kenya (d)*—							
Bullion	34,700	31,700	40,100	29,200	28,700	25,300	15,000
Nigeria—							
Bullion	1,984	691	41	176	15	347	5
Northern Rhodesia—							
Bullion	197	248	190	166	169	79	4
Sierra Leone—							
Bullion	222	680	3,996	2,046	2,804	2,207	2,321
Southern Rhodesia—							
Concentrates, etc.* ..	4,600	5,100	6,400	(a)	6,400	3,900	5,300
Bullion	552,519	526,876	517,135	536,011	516,361	484,354	501,835
South West Africa—							
Bullion	(a)	33	473	51	25	—	(a)
Tanganyika—							
Concentrates	60	40	—	(a)	114	814	2,738
Bullion	48,427	47,356	57,557	68,989	65,127	65,583	64,693
Uganda (b)—							
Bullion	2,176	1,366	1,158	648	509	184	166
Union of South Africa—							
Ore and concentrates ..	3,600	6,700	12,900	(a)	11,900	16,500	11,300
Bullion	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Coin	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Zanzibar*—							
Bullion	700	1,000	—	—	—	—	40
British West Indies—							
Trinidad and Tobago*—							
Bullion	—	110	—	(a)	(a)	—	(a)
British Guiana—							
Bullion (e)	9,652	15,093	14,423	14,698	10,278	9,184	15,007
Aden*—							
Bullion and coin ..	—	—	—	—	1,200	(a)	(a)
India (c)—							
Bullion	300	3,800	—	405	410	1,206	805
Coin	64,000	50,000	—	—	—	—	—
Malaya—							
Bullion	1,400*	—	8,900*	(a)	17,800*	20,700*	13,449
Coin	—	—	19	—	31	—	—
Hong Kong*—							
Bullion	171,000	292,000	70	(a)	1,600	4,600	2,600
Coin	—	108,000	—	—	60	40	—
Sarawak*—							
Bullion	—	—	900	(a)	1,400	1,000	898
Australia—							
Ores, etc. (f)	1,691	5,300	13,137	5,592	8,257	(g) 7,387	(g) 15,469
Bullion	2,198,207	355,992	232	226	22	45	824,874
Coin	—	3	—	—	—	—	—

* Some countries record the trade of Gold by value only. In such cases the weight has been obtained by dividing this 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 for which this conversion has been effected are marked with an asterisk.

(a) Information not available. (b) Also included with Kenya up to 1948 inclusive. (c) Sea-borne trade only. (d) Including Uganda up to 1948 inclusive. (e) 1946 to 1950 revised. (f) Years ended June 30th of that stated. (g) Calendar year.

EXPORTS OF GOLD (Cont.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES (Cont.)							
Fiji—							
Bullion	68,900	134,922	105,712	104,115	103,111	93,700	80,189
New Guinea (b)—							
Bullion	(a)	(a)	(a)	91,295	85,052	87,593	110,214
New Zealand—							
Auriferous quartz ..	13	107	—	1,606	—	—	—
Bullion, etc.	110,000	96,000	54,000	50,000	90,000	60,000	60,000
Sweepings and scrap ..	804	1,065	1,482	1,079	1,181	636	409
Papua (b)—							
Bullion	(a)	(a)	(a)	28	788	248	(a)
Irish Republic*—							
Bullion	130	200	4,300	(a)	500	800	1,200
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.*—							
Bullion and scrap ..	(a)	(a)	(a)	(a)	(a)	114,000	(a)
Denmark—							
Beaten, rolled or drawn ..	600	300	300	50	1,500	(a)	(a)
France—							
Bullion and scrap ..	(a)	(a)	(a)	(a)	(a)	1,393,000	3,440,000
Beaten, rolled or drawn	1,400	14,500	13,000	144,000	947,000	1,892,000	1,276,000
Italy—							
Bullion and scrap ..	} 11,000	} 12,000	} 7,600	} 2,700	} 350	} 200	} 350
Beaten, rolled or drawn							
Netherlands—							
Bullion	} (a)	} (a)	} (a)	} 800,000	} { 1,400,000	} (a)	} (a)
Coin							
Sweden—							
Bullion	390,000	806,000	19,000	69,000	50,000	90,000	142,000
Coin	—	500	—	—	—	—	(a)
Sweepings, etc.	4,000	8,000	7,000	5,000	6,000	5,000	(a)
Belgian Congo—							
Bullion	330,000	330,000	320,000	359,000	343,000	366,000	424,000
Cameroon (French)—							
Bullion	(a)	(a)	(a)	6,400	5,300	4,700	2,900
Egypt—							
Bullion	—	18,000	—	20,000	(a)	—	—
Coin	—	—	—	—	(a)	—	—
Ethiopia	51,528	27,382	(a)	(a)	16,500	(a)	10,000
French Equatorial Africa—							
Bullion	(a)	48,000	134,900	101,400	52,000	51,000	44,000
French West Africa—							
Bullion	50,000	2,000	1,000	35,000	23,000	9,000	1,200
Liberia—							
Bullion	16,506	16,998	13,797	13,183	12,110	(a)	(a)
Madagascar—							
Bullion	8,000	1,000	10	5,000	10	1,000	—
Mozambique—							
Bullion	25,000	—	150,000	30	—	—	(a)
Costa Rica—							
Bullion	1,000	2,000	800	1,000	(a)	(a)	(a)
Dominican Republic—							
Bullion and scrap ..	700	—	—	1,000	500	450	(a)
Guatemala—							
Bullion, etc.	30	30	—	5	400	—	(a)
Honduras (b)—							
Bullion, etc.	14,900	13,000	12,000	23,000	25,000	33,600	(a)
Mexico—							
Bullion	66,000	75,000	77,000	221,000	141,000	548,000	76,000

(a) Information not available.

(b) Years ended June 30 of that stated.

EXPORTS OF GOLD (Cont.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Netherlands West Indies— Bullion and coin ..	12,249	64	(a)	(a)	(a)	(a)	(a)
Nicaragua— Concentrates } Precipitates }	203,390	213,454	222,627	219,139	229,206	251,160	256,000
Panama— Bullion	(a)	(a)	(a)	9,657	886	945	(a)
Salvador— Bullion, etc.	21,798	10,755	20,778	27,091	29,053	27,097	(a)
United States— Ore and base bullion ..	261	3,450	—	2,865	725	(a)	(a)
Refined bullion	6,298,168	5,402,975	5,342,728	2,168,808	14,633,178	(a)	(a)
Coin	4,305	(a)	(a)	(a)	(a)	(a)	(a)
Argentina— Bullion and coin ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Bolivia— Ore	2,918	7,955	4,051	32,440	1,737	1,275	9,000
Chile— Bullion	157,000	—	—	(a)	(a)	(a)	(a)
Coin	211,000	(a)	(a)	(a)	(a)	(a)	(a)
Colombia— Bullion	9,143	(a)	(a)	(a)	(a)	(a)	(a)
Dutch Guiana— Bullion	4,630	4,125	4,177	3,794	4,533	6,400	6,000
French Guiana— Bullion	(a)	11,000	11,000	15,000	12,400	9,000	5,900
Peru— Ores, concentrates, etc. . .	7,000	10,000	6,300	} 111,000	{ 11,000 } 106,000	} 122,000	132,000
Bullion, etc.	120,000	190,000	150,000				
Venezuela— Bullion	18,000	3,000	4,000	7,000	(a)	(a)	(a)
Saudi Arabia— Bullion	(a)	(a)	(a)	(a)	10,296	(a)	(a)

(a) Information not available.

TOTAL IMPORTS OF GOLD *

(In terms of metal)

(Fine troy ounces)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Ore, etc.	20,100	25,200	35,400	(a)	68,000	218,000	410,000
Bullion—							
Unrefined	655,000	697,000	996,000	1,027,000	1,578,000	2,603,000	3,219,000
Refined	13,453,000	18,402,000	44,857,000	9,535,000	6,637,000	5,765,000	9,495,000
Coin	158,000	157,000	2,264,000	3,000	34,000	280,000	34,000
Malta*—							
Bullion and Coin . .	3,900	1,300	200	(a)	3,300	4,600	7,300
Anglo-Egyptian Sudan*—							
Bullion	—	323	—	(a)	57	36	(a)
Gold Coast—							
Bullion	—	—	—	966	—	274	—
Kenya* (d)—							
Bullion	2,200	21,800	15,300	3,400	1,100	3,300	2,700
Southern Rhodesia*—							
Concentrates	9,500	9,600	9,100	(a)	9,100	9,500	7,800
Tanganyika Territory*—							
Bullion	—	—	12	(a)	194	600	160
Uganda*—							
Bullion	(b)	(b)	(b)	(a)	1,328	1,100	1,200
Zanzibar*—							
Bullion	200	2,700	450	(a)	1,000	1,400	1,100
Canada*—							
Bullion, etc. (c).. .	5,900	6,700	800	(a)	1,700	7,400	(a)
British West Indies—							
Jamaica*—							
Bullion	130	20	70	(a)	40	(a)	(a)
Coin	—	—	1	(a)	20	(a)	(a)
Trinidad and Tobago*—							
Bullion	—	3,400	500	(a)	400	20	—
British Guiana*—							
Bullion	30	70	—	—	—	10	(a)
Aden*—							
Bullion and coin . .	20	—	310	—	—	—	(a)
Ceylon*—							
Bullion	—	38,100	100	(a)	9,500	12,000	14,000
Cyprus*—							
Bullion	640	2,300	1,210	(a)	280	360	390
Hong Kong*—							
Bullion	42,000	209,000	—	(a)	60	—	—
Coin	105,000	146,000	—	—	—	—	—
India—							
Bullion	65,942	537,590	5,066	705	7,107	4,254	35,960
Coin	658	107,099	3	12	1	4	400
Malaya—							
Bullion	—	—	1,200	(a)	1,200	1,027	896
Palestine—							
Bullion and coin . .	87,300	(a)	(a)	(a)	(a)	(a)	(a)
Australia—							
Bullion, etc.	80,442	135,846	136,133	116,380	158,891	108,913	286,257
Coin	25	—	10	(a)	30	—	—
Fiji—							
Bullion	—	15	5	8	6	—	8
New Zealand—							
Concentrates				10	—	11	59
Bullion	500	500	700	321	534	484	521
Beaten, rolled or drawn*				200	340	280	140
Irish Republic*—							
Bullion	—	—	3,500	(a)	—	7,300	—

* See note on page 122.

(a) Information not available.

(b) Included with Kenya.

(c) Gold for commercial purposes only.

(d) Including Uganda up to 1948 inclusive.

IMPORTS OF GOLD (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES*							
Belgium-Luxemburg E.U.—							
Bullion, scrap, etc. ..	(a)	(a)	(a)	(a)	(a)	449,600	(a)
Denmark—							
Beaten, rolled or drawn	32,000	14,000	9,000	10,000	17,000	(a)	(a)
Finland—							
Bullion	300	—	100	(a)	30	9,000	(a)
Sheet and wire	200	100	200	(a)	700	100	(a)
France—							
Bullion and scrap ..	(a)	(a)	(a)	(a)	(a)	1,472,000	2,630,000
Beaten, rolled or drawn	800	7,500	13,000	(a)	(a)	2,066,000	2,412,000
Italy—							
Bullion, scrap, beaten, rolled or drawn ..	8,100	6,700	2,700	1,463,000	902,000	36,000	23,900
Coin	16,200	—	60	1,178,000	1,026,000	1,274,000	186,000
Norway—							
Bullion	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Sheets and rolled ..	550	2,200	300	1,000	200	(a)	(a)
Sweden—							
Bullion	10,000	426,000	8,000	12,000	8,000	6,000	116,000
Coin	700	180	20	—	—	—	(a)
Sweepings, etc.	400	500	500	(a)	(a)	(a)	(a)
Algeria—							
Beaten, rolled or drawn	—	2,600	7,000	7,000	8,000	10,000	16,800
Egypt—							
Bullion	26,000	119,000	358,000	590,000	(a)	(a)	322,000
Coin	66,000	28,000	308,000	156,000	(a)	(a)	(a)
Mozambique—							
Bullion	57,000	93,000	103,000	129,000	82,000	82,000	(a)
Mexico—							
Bullion	(a)	20	400	(a)	2,000	650,000	500
United States—							
Ore and base bullion ..	1,075,049	998,430	1,003,883	1,034,967	905,873	(a)	(a)
Refined bullion	9,848,798	54,415,919	54,254,746	21,005,995	3,745,678	(a)	(a)
Coin	4,346,904	(a)	(a)	(a)	(a)	(a)	(a)
Argentina—							
Bullion and coin ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Brazil—							
Bullion	600	100	(a)	(a)	(a)	(a)	(a)
Venezuela—							
Bullion	7,000	(a)	(a)	(a)	(a)	(a)	(a)
Syria and Lebanon—							
Coin	500,000	(a)	(a)	(a)	(a)	(a)	(a)
Turkey—							
Bullion and scrap ..	1,700	500	—	(a)	(a)	(a)	(a)

(a) Information not available.

GRAPHITE

PRODUCTION OF GRAPHITE

(Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Kenya	—	—	—	—	—	—	34
South West Africa (crude)	1,174	1,613	1,601	2,229	1,358	2,585	1,165
Tanganyika (crude) ..	—	—	—	—	—	25	—
Union of South Africa ..	273	(b) 218	170	105	240	323	347
Canada (sales)	1,763	2,141	2,267	1,917	3,202	1,401	1,812
Ceylon (exports)	8,082	9,005	13,970	12,241	12,844	12,621	7,659
India	1,627	1,235	1,649	972	1,586	1,735	2,148
Australia	347	303	231	124	145	46	80
FOREIGN COUNTRIES							
Austria (crude)	242	3,784	10,723	13,923	14,454	17,939	19,499
Czechoslovakia (crude) ..	5,027	(a)	(a)	(a)	(a)	(a)	(a)
Germany	(a)	(a)	(c) 5,076	(c) 5,016	(c) 6,459	(a)	8,821
Italy	2,552	4,085	7,136	4,566	4,450	4,443	3,897
Norway	651	2,442	1,066	2,222	2,426	3,398	4,056
Spain	500	304	237	252	305	270	602
Sweden	—	—	63	107	—	—	—
Egypt	—	—	49	—	—	—	—
Madagascar—							
Flake	4,356	3,853	7,563	5,687	9,784	12,514	14,158
Powder	1,858	1,235	3,309	3,309	4,008	5,533	4,028
Morocco (French)	630	433	279	71	73	128	21
Morocco (Spanish)	—	—	25	15	3	—	16
Mozambique	197	124	89	108	(a)	239	(a)
Mexico	21,782	27,542	34,704	23,437	24,238	32,761	23,772
United States	4,978	3,917	8,883	5,448	4,555	6,371	5,005
Argentina	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Brazil	650	6,900	7,996	547	464	689	(a)
Uruguay (ore)	—	49	—	—	—	—	(a)
Japan	7,300	10,421	8,987	5,578	3,947	4,786	4,577
Korea (South)—							
Flake	200	528	391	795	18,748	20,058	250
Other	—	2,559	14,650	39,233	—	—	14,572
TOTAL*	70,000	94,000	146,000	142,000	129,000	150,000	132,000

*Excluding graphite produced in the U.S.S.R. and Albania.

(a) Information not available.

(b) Including 31 tons of graphite shale.

(c) Bizonal area.

EXPORTS OF GRAPHITE

(Domestic Produce)

(Long tons)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Crucibles	3,229	2,795	3,416	3,777	2,889	3,905	3,072
South West Africa	873	1,362	970	1,246	671	2,628	1,437
Tanganyika (crude)	—	—	—	—	—	25	—
Union of South Africa	371	93	138	106	189	(a)	(a)
Canada	1,329	1,620	1,798	1,474	2,717	1,028	1,505
Ceylon	8,082	9,005	13,970	12,241	12,844	12,621	7,659
Hong Kong (re-exports)	10	92	565	2,828	1,185	1,838	150
Australia	90	46	82	37	91	63	42
FOREIGN COUNTRIES							
Austria	(a)	4,188	7,204	10,301	9,644	12,696	13,277
Belgium-Luxemburg E.U.—	(a)	(a)	904	135	62	73	24
Czechoslovakia	874	1,647	(c) 1,086	(a)	(a)	(a)	(a)
Denmark (d)	2	—	1	7	36	84	131
France	1,032	495	709	301	435	608	532
Germany (Federal)	(a)	(a)	992	1,977	4,088	4,818	5,005
Italy	(a)	1,669	1,953	1,597	1,444	2,025	1,680
Netherlands	(a)	(a)	179	221	366	254	241
Norway	1,441	2,049	936	2,161	1,872	3,589	3,753
Sweden	305	16	12	—	7	—	—
Madagascar	8,735	8,579	8,305	10,122	11,895	17,838	17,111
Morocco (French)	560	380	343	108	39	32	51
Mozambique	189	203	40	165	—	239	(a)
Mexico	21,603	27,542	34,704	23,149	25,313	32,761	23,772
United States	2,065	1,380	935	1,207	1,248	1,344	1,594
Brazil	91	127	82	135	(a)	59	136
Japan	(a)	(a)	(a)	(a)	139	287	(a)
Korea—							
Flake	(a)	(b) 2,276	(a)	(a)	(a)	(a)	(a)
Other			(a)	(a)	(a)	(a)	(a)

(a) Information not available.

(b) Imports into Japan from Korea.

(c) January to October only.

(d) Including artificial graphite.

IMPORTS OF GRAPHITE
(Less Re-exports)
(Long tons)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Natural	2,807	{ 7,192	9,928	9,868	10,693	13,532	9,636
Artificial		124	—	17	2	10	25
Crucibles	1	3	1	2	(a)	(a)	(a)
Mauritius—							
Crucibles	(£726)	(£471)	(£158)	6	3	2	4
Southern Rhodesia	33	34	18	33	71	55	20
Union of South Africa	305	1,205	568	952	548	2,101	(a)
Canada (b)—							
Unground	(£23,313)	(£18,804)	(£20,323)	(£22,155)	(£23,500)	(£32,788)	(£35,772)
Ground, including manu- factures	(£85,089)	(£94,150)	(£82,799)	(£77,997)	(£108,698)	(£161,529)	(£159,212)
Crucibles	(£33,503)	(£33,721)	(£29,032)	(£34,228)	(£53,994)	(£72,982)	(£78,179)
Newfoundland (c)	1	3	1	(c)	(c)	(c)	(c)
Cyprus	—	3	6	—	2	2	2
Hong Kong (total imports)	301	283	1,454	3,597	1,419	1,434	1,768
India—							
Graphite	488	902	733	404	667	688	326
Crucibles	223	351	368	728	214	396	82
Pakistan (f)—							
Graphite	(a)	(a)	(a)	(a)	(a)	13	26
Crucibles	(a)	(a)	(a)	(a)	(a)	128	23
Australia	840	593	1,162	717	808	1,140	1,098
New Zealand £ (N.Z.)	(£2,852)	(£2,813)	(a)	171	77	96	63
Irish Republic	45	33	42	26	39	50	(a)
FOREIGN COUNTRIES							
Austria—							
Graphite	(a)	(a)	(a)	55	220	279	274
Crucibles, etc.	(a)	(a)	109	176	202	257	184
Belgium-Luxemburg E.U.							
Crude and ground	(a)	(a)	1,697	1,541	1,788	2,247	2,043
Bulgaria	47	(a)	(a)	(a)	(a)	(a)	(a)
Czechoslovakia—							
Graphite	35	260	(d) 399	(a)	(a)	(a)	(a)
Crucibles, etc.	18	55	(a)	(a)	(a)	(a)	(a)
Denmark—							
Graphite (e)	655	602	728	639	901	721	572
Crucibles	136	88	102	80	60	119	82
Finland (total imports)	248	296	131	233	214	303	(a)
France	524	4,536	4,154	4,361	3,322	5,136	4,897
Germany (Federal)	(a)	(a)	917	2,842	3,683	5,251	5,250
Italy	(a)	3,052	1,907	2,407	3,636	3,375	4,853
Netherlands (e)	(a)	(a)	415	449	1,006	1,531	1,184
Norway—							
Graphite	29	45	88	112	69	85	157
Crucibles, etc.	69	66	91	130	132	133	123
Portugal	56	69	50	24	97	45	88
Sweden	558	505	428	638	1,068	959	909
Yugoslavia	(a)	(a)	(a)	(a)	1,017	1,473	1,006
Algeria	48	48	52	15	16	11	14
Egypt (total imports)	61	49	172	143	163	276	(a)
Tunis—							
Graphite	1	5	9	(a)	(a)	(a)	(a)
Crucibles	13	12	50	(a)	(a)	(a)	(a)

(a) Information not available.

(b) Including Newfoundland from April 1, 1949.

(c) Years ended March 31 of year following that stated. Included with Canada from April 1, 1949.

(d) January to October only.

(e) Including artificial graphite.

(f) Years ended March 31 following that stated. Included with India prior to 1948.

IMPORTS OF GRAPHITE (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Mexico—							
Graphite	109	126	64	63	193	84	113
Crucibles	151	188	50	50	107	175	184
United States (b)	29,586	38,957	46,556	28,358	38,827	48,564	37,899
Argentina	239	(a)	(a)	(a)	(a)	(a)	(a)
Brazil—							
Graphite	41	112	38	7	(a)	171	152
Crucibles	182	237	110	147	(a)	391	239
Chile	89	(a)	(a)	(a)	(a)	(a)	(a)
Colombia	13	(a)	(a)	(a)	(a)	(a)	(a)
Peru	18	(a)	(a)	13	(a)	17	16
Uruguay	(a)	(a)	11	18	31	21	(a)
Israel—							
Crucibles	35	(a)	(a)	28	37	(a)	(a)
Japan	5,267	15,307	26,880	35,136	4,221	33,389	25,873
Philippine Republic	(a)	(a)	(a)	(a)	280	82	(a)
Turkey—							
Graphite	257	33	37	20	124	95	52
Crucibles, etc.	251	29	59	46	40	164	89

(a) Information not available.

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

Year	Long tons
1946	4
1947	25
1948	104
1949	40
1950	164
1951	80
1952	301

GYPSUM

PRODUCTION OF GYPSUM

(Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Great Britain—							
Gypsum	738,000	848,400	1,053,600	1,086,000	1,167,400	1,237,200	1,358,400
Anhydrite	950,000	897,300	1,033,600	1,024,400	1,038,900	1,047,200	1,036,300
Northern Ireland	—	—	—	—	—	170	—
Anglo-Egyptian Sudan	3,015	—	2,996	1,472	—	5,485	3,535
Kenya	500	559	1,000	178	—	82	1,593
Tanganyika (f)	—	—	—	—	—	—	495
Union of South Africa (c)	65,182	78,900	82,610	87,693	115,033	120,129	144,688
Canada (b)	1,809,862	2,325,067	3,114,254	2,809,923	3,375,188	3,507,479	3,173,140
Jamaica	—	—	—	12,000	23,000	26,744	44,900
Ceylon	32	68	167	184	—	410	675
Cyprus (e) (j)	70,000	60,000	68,000	82,000	122,000	70,000	110,000
India	} 76,417	{ 50,569	78,948	139,944	206,366	203,612	410,715
Pakistan			15,866	1,000	15,645	16,659	22,784	28,830
Palestine	14,283	(a)	(a)	(a)	(a)	(a)	(a)
Australia	165,482	215,435	276,416	288,580	335,484	364,347	351,678
Irish Republic	37,295	35,840	61,703	66,205	81,362	85,026	69,700
FOREIGN COUNTRIES							
Austria	23,633	14,858	25,959	35,617	41,632	117,479	104,130
Bulgaria (e)	5,000	5,000	5,000	5,000	5,000	5,000	5,000
France	1,718,794	2,194,524	2,136,890	2,109,309	2,149,000	1,985,000	(a)
Germany (Federal) (i)	(a)	(a)	(d) 308,000	578,000	714,000	793,000	753,000
Greece	5,069	837	571	718	807	17,665	18,700
Italy (including alabaster)	232,400	293,724	366,029	440,862	481,405	(a)	(a)
Poland	9,632	14,681	13,959	25,945	32,306	(a)	(a)
Portugal	27,243	33,333	42,165	42,380	35,464	29,519	(a)
Spain (i)	760,700	879,400	929,600	864,400	1,052,600	1,240,300	670,300
Algeria	28,148	37,739	32,733	—	41,060	52,359	85,730
Angola (f)	—	1,390	(a)	(a)	168	—	(a)
Egypt	77,079	71,194	93,739	(a)	(a)	(a)	(a)
Morocco (French)	14,896	17,012	29,660	15,181	610	—	7,829
Morocco (Spanish)	(e) 4,000	(e) 3,000	(e) 4,000	(e) 4,000	4,379	3,520	(a)
Tunis	8,842	17,371	18,828	22,000	22,700	24,000	23,000
Dominican Republic	(f) 11,404	13,252	7,181	17,000	—	20,903	12,660
United States	5,026,248	5,543,050	6,477,263	5,900,105	7,314,844	7,737,084	7,205,428
Argentina	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Chile	75,467	82,604	30,501	59,351	(a)	61,046	(a)
Peru	42,706	40,677	45,978	36,828	31,413	30,402	(a)
Venezuela (g)	958	3,397	2,568	2,945	2,018	1,382	150
Japan	48,977	60,583	111,957	115,261	112,864	198,261	197,475
New Caledonia	6,643	2,662	758	16,850	15,060	15,528	(a)
Philippine Republic	—	—	792	2,667	2,837	393	—
Siam	86	69	197	152	331	77	—
TOTAL*	12,300,000	14,100,000	16,600,000	16,200,000	18,800,000	19,900,000	18,600,000

*Excluding gypsum produced in Luxemburg, Roumania, Switzerland, U.S.S.R., Yugoslavia, Cuba, Mexico, Brazil, China, Iraq and Korea.

- (a) Information not available
- (b) Including "Anhydrite."
- (c) Sales and shipments for the years 1946 to 1948.
- (d) Bizonal area.
- (e) Estimated.
- (f) Exports.
- (g) Production in Government quarries only.
- (h) Shipments.
- (i) Crude estimated on production of calcined.
- (j) Revised.

EXPORTS OF GYPSUM

(Domestic Produce)

(Long tons)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Calcined	2,086	1,266	7,749	16,332	22,236	12,205	17,202
Tanganyika	—	—	—	—	—	—	495
Union of South Africa ..	3,591	2,825	4,998	6,007	6,430	7,082	6,041
Canada—							
Crude	1,329,205	1,729,455	2,336,849	2,271,979	2,651,762	2,703,871	2,467,404
Ground	—	—	9,637	(a)	(a)	(a)	(a)
Calcined	865	1,271	662	147	91	151	292
Jamaica	—	—	—	120	10,712	24,861	36,334
Cyprus—							
Crude	10,850	5,800	13,992	16,951	53,094	19,840	41,510
Calcined	3,642	1,601	4,330	7,030	9,465	2,471	11,792
Hong Kong (including re-exports)	113	160	333	210	1,437	1,631	(a)
Australia—							
Crude	22,180	27,984	35,164	37,255	27,131	23,905	32,524
Irish Republic—							
Crude	(a)	(a)	(a)	(a)	(a)	—	9,541
Calcined	(a)	(a)	(a)	4,591	2,438	8,134	1,656
FOREIGN COUNTRIES							
Austria—							
Crude and ground ..	(a)	18,759	27,978	16,657	19,194	19,468	15,505
Calcined	(a)	679	271	1,889	7,002	4,957	115
Belgium-Luxemburg E.U.—							
Crude	(a)	(a)	1,630	233	95	771	253
Ground and calcined ..	(a)	(a)	5,663	3,881	1,613	2,476	3,383
Denmark—							
Crude and calcined ..	—	21	36	21	37	22	20
France—							
Crude	} 310,702	465,897	{ 311,924	290,188	367,691	411,456	420,487
Calcined .. .. .								53,923	68,357	82,061	69,496	56,464
Germany (Federal)—							
Gypsum and phosphatic gypsum	(a)	(a)	27,675	34,481	94,660	114,082	125,917
Italy—							
Crude	(a)	(a)	(a)	(a)	(b) 222	5,171	904
Calcined	(a)	(a)	(a)	(a)	(b) 426	115	645
Netherlands (calcined) ..	29	186	255	2,461	3,100	3,048	2,462
Portugal—							
Crude	110	99	40	123	277	437	474
Sweden—							
Calcined	348	20	27	26	186	56	61
Switzerland—							
Ground and calcined ..	2,001	2,638	795	177	161	90	76
Yugoslavia—							
Crude	(a)	(a)	(a)	(a)	39	7,821	(a)
Calcined	(a)	(a)	(a)	(a)	1,119	1,811	20
Algeria	613	651	608	439	568	252	191
Angola—							
Crude	—	1,390	(a)	(a)	168	—	(a)
Egypt—							
Crude and ground ..	(a)	—	2,038	2,139	8,052	8,061	16,947
Calcined	(a)	—	351	1,076	277	4,234	(a)
Morocco (French)	—	—	27,885	20,846	8,520	3,238	8,755
Morocco (Spanish)	985	829	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

(b) July to December only.

EXPORTS OF GYPSUM (Cont.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Tunis (including re-exports)—							
Calcined	1	39	21	(a)	(a)	(a)	(a)
Dominican Republic ..	11,404	9,473	6,386	17,925	(a) 987	12,656	(a)
Mexico—							
Crude	—	—	118,093	63,812	170,467	256,775	222,982
Calcined	23,728	108,337	45,558	82,762	27,828	23	16
United States—							
Crude and ground ..	3,635	8,676	1,254	} 15,685	21,141	22,362	17,754
Calcined	13,888	20,974	8,387				
Argentina	1,742	(a)	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

IMPORTS OF GYPSUM
(Less Re-exports)
(Long tons)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Crude, including alabaster	67,413	54,787	36,743	53,106	69,223	46,209	50,691
Calcined	2,590	5,018	6,642	3,587	2,330	1,537	1,298
Anglo-Egyptian Sudan ..	—	125	173	231	214	397	(a)
Kenya—							
Crude	(a)	(a)	525	—	470	—	3
Southern Rhodesia—							
Crude and calcined ..	2,822	3,038	2,763	4,266	6,866	6,121	7,582
South West Africa ..	27	19	21	18	24	31	(a)
Uganda—							
Crude	(a)	(a)	(a)	—	1	—	802
Union of South Africa—							
Crude and calcined ..	715	1,144	1,111	992	527	686	(a)
Canada (b)—							
Crude and ground ..	3,331	7,924	921	505	757	1,518	579
Calcined	6,815	8,992	8,887	7,796	20,035	13,978	11,310
Newfoundland (c)—							
Crude and calcined ..	360	383	243	(c)	(c)	(c)	(c)
Hong Kong (total imports)	271	189	2,426	89	3,838	5,700	(a)
Australia (e)	2	1	6	7	132	10	10
New Zealand—							
Crude	24,374	29,206	26,956	38,369	28,310	15,214	35,098
Calcined	1,180	6,007	4,739	9,293	8,427	7,057	18,311
Irish Republic—							
Calcined, etc.	431	380	395	667	1,015	651	(a)
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Crude	(a)	(a)	202,419	162,416	201,587	257,752	272,383
Ground and calcined ..	(a)	(a)	33,500	30,367	42,704	39,496	34,805
Czechoslovakia—							
Crude and ground ..	4,076	16,720	(d) 30,291	(a)	(a)	(a)	(a)
Calcined	6,452	14,980	(d) 15,255	(a)	(a)	(a)	(a)
Denmark—							
Crude	20,845	21,690	25,786	14,663	35,684	32,713	35,414
Calcined	5,232	10,167	11,820	31,663	4,970	4,235	4,348
Finland (total imports)—							
Crude	5,129	22,728	24,597	22,389	31,907	41,207	(a)
Calcined	3,758	1,674	4,594	8,338	15,006	18,463	(a)
France—							
Crude and calcined ..	3,326	5,678	1,052	346	279	391	484
Germany (Federal)—							
Gypsum and phosphatic gypsum	(a)	(a)	52	53	904	178	4,524
Iceland	31	(a)	(a)	115	16	29	(a)
Netherlands—							
Crude	14,264	28,342	22,692	21,293	29,499	28,119	34,397
Calcined	15,368	15,450	21,229	24,356	28,865	31,117	28,101
Ground	47,018	50,779	8,489	8,158	8,613	8,865	4,635

(a) Information not available.

(b) Including Newfoundland from April 1, 1949.

(c) Years ended March 31 of year following that stated. Included with Canada from April 1, 1949.

(d) January to October only.

(e) Years ended June 30 of that stated up to 1949 inclusive.

IMPORTS OF GYPSUM (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Norway—							
Crude	15,931	15,966	15,567	21,132	20,058	} 29,964	31,405
Ground	2,834	2,174	2,336	2,975	2,973		
Portugal—							
Crude	8,100	6,205	5,172	7,972	2,838	5,496	4,535
Calcined	9	12	9	8	7	13	9
Sweden—							
Crude	63,129	59,200	73,741	43,438	72,880	64,151	62,899
Calcined	7,207	11,189	10,647	8,538	10,827	13,161	13,092
Switzerland—							
Ground and calcined ..	27	91	193	105	181	210	141
Algeria—							
Calcined	93	149	149	741	2,100	1,955	2,159
Egypt—							
Crude and ground ..	—	21	522	984	1,143	473	433
Calcined	(b) 639	612	902	859	(a)	(a)	637
Morocco (French)	697	1,207	2,571	1,077	768	(a)	331
Morocco (Spanish)	128	85	(a)	(a)	(a)	(a)	(a)
Mozambique—							
Crude	648	976	1,767	2,431	186	1,713	(a)
Calcined	32	70	104	85	41	52	(a)
Tunis—							
Calcined	20	21	16	39	(a)	(a)	(a)
Costa Rica	28	(a)	26	(a)	(a)	(a)	(a)
Cuba (total imports) ..	(a)	(a)	1,820	2,762	3,099	4,460	(a)
United States—							
Crude	1,301,018	1,925,937	2,552,865	2,315,472	2,848,750	3,078,640	2,739,201
Ground	316	426	361	547	639	514	540
Calcined	228	116	10	187	212	269	222
Argentina	63	(a)	(a)	(a)	(a)	(a)	(a)
Brazil—							
Crude	252	200	155	141	(a)	248	131
Ground	161	290	179	150	(a)	332	66
Chile	12	(a)	(a)	(a)	(a)	(a)	(a)
Colombia—							
Ground	1,116	(a)	55	548	151	(a)	(a)
Peru—							
Crude	11	(a)	(a)	(a)	(a)	39	20
Calcined	13	(a)	(a)	(a)	(a)	1	3
Uruguay—							
Ground	8,433	15,771	5,754	13,913	13,442	12,939	(a)
Venezuela	107	641	1,043	(a)	(a)	(a)	(a)
Israel—							
Crude	} 93	(a)	(a)	{ 839	480	(a)	(a)
Calcined					25	(a)	(a)
Japan	—	—	9,165	(a)	5,000	12,090	15,715
Philippine Republic—							
Crude	(a)	(a)	(a)	(a)	17,078	8,113	(a)
Calcined	(a)	(a)	(a)	(a)	223	121	(a)
Syria and Lebanon	269	(a)	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

(b) Total imports.

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

(Long tons)

Producing Country	Estimated Iron Content													
	1946	1947	1948	1949	1950	1951	1952	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES														
United Kingdom (b) (c)	12,172,800	11,090,900	13,089,200	13,396,700	12,863,000	14,776,600	16,232,200	3,518,000	3,217,000	3,927,000	4,019,000	3,889,000	4,433,000	4,870,000
Northern Rhodesia (c)	159	1,504	147	1,721	1,721	1,403,325	5,943	80	750	84	1,111	—	—	3,800
Sierra Leone (d)	729,398	840,636	952,599	1,089,036	1,165,039	1,140,325	1,152,495	431,000	492,000	538,000	643,000	691,000	681,000	692,000
Southern Rhodesia	—	(c) 282	29,897	50,672	56,312	51,026	69,808	—	160	17,250	29,100	32,400	29,000	36,700
Union of South Africa	991,879	1,143,779	1,145,350	1,222,423	1,170,465	1,398,702	1,731,122	648,000	713,000	688,000	737,000	701,000	853,000	1,039,000
Canada	1,383,503	1,713,720	1,104,682	3,281,336	3,218,983	4,179,027	4,647,373	780,000	940,000	680,000	1,805,000	1,770,000	2,298,000	2,556,000
Newfoundland	1,217,112	1,443,410	1,468,056	—	—	—	—	693,000	751,000	777,000	—	—	—	—
Hong Kong	—	—	908	59,131	189,374	160,684	127,512	(a)	(a)	(a)	33,000	90,000	75,000	60,000
India	2,407,682	2,498,459	2,284,587	2,808,522	2,865,194	3,657,105	3,925,511	1,540,000	1,600,000	1,460,000	1,800,000	1,900,000	2,340,000	2,510,000
Malaya	—	888	641	8,390	498,303	846,803	1,055,506	—	(a)	(a)	(a)	279,000	474,000	591,000
Australia	1,818,216	1,845,529	2,042,005	1,460,231	2,364,689	2,436,229	2,907,754	1,210,000	1,420,000	1,224,000	1,020,000	1,417,600	1,457,000	1,749,000
New Zealand (c)	7,406	6,226	4,776	4,352	3,642	2,496	1,823	(e)	(a)	(a)	(a)	(a)	(a)	(a)
TOTAL	20,668,000	20,585,000	22,123,000	23,383,000	24,576,000	28,649,000	31,851,000							
FOREIGN COUNTRIES														
Austria	452,837	870,881	1,178,342	1,464,121	1,830,046	2,332,246	2,610,694	155,000	300,000	353,000	450,000	571,000	740,000	823,000
Belgium	42,173	59,377	90,144	43,266	47,000	80,700	132,948	13,000	20,000	33,000	15,000	16,400	28,000	46,000
Czechoslovakia	1,098,000	1,346,000	1,404,500	1,450,000	1,550,000	1,730,000	2,044,000	330,000	404,000	420,000	435,000	465,000	519,000	613,000
France	15,975,855	18,422,877	22,696,661	30,831,604	29,541,763	34,652,825	40,056,621	4,942,000	6,003,000	7,436,000	10,310,000	9,880,000	11,550,000	13,300,000
Germany	3,843,023	4,371,916	7,160,676	8,967,800	10,711,380	12,719,000	15,161,000	930,000	1,017,000	1,880,000	2,397,000	2,893,000	3,419,000	4,032,000
Federal Republic	(a)	279,000	300,000	301,000	395,000	461,000	761,000	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Russian Zone	15,000	—	344	2,756	7,286	55,829	160,184	(a)	(a)	(a)	(a)	(a)	27,200	80,000
Greece	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hungary	131,000	240,300	313,000	334,000	362,000	400,000	460,000	46,000	84,000	122,000	130,000	140,000	160,000	200,000
Italy	147,407	242,585	557,711	540,656	491,445	567,902	817,735	75,000	120,000	280,000	270,000	245,000	280,000	408,000
Luxemburg	2,211,421	1,960,703	3,345,587	4,071,394	3,784,368	5,536,277	7,130,442	660,000	585,000	962,000	1,118,000	1,054,000	1,542,000	1,937,000
Norway	59,025	125,780	196,151	270,944	293,705	326,578	754,178	35,000	79,000	128,000	173,000	190,000	211,000	478,000
Poland	389,224	496,487	649,000	668,000	780,000	887,000	1,011,000	130,000	170,000	216,000	230,000	260,000	280,000	320,000

* For detailed figures see page 137.

(a) Information not available.

(b) In addition bog ore and iron ore (not used for smelting) were produced as follows:—

1946	..	..	..	5,791 long tons.
1947	..	..	..	6,638 "
1948-1952	..	..	..	(a) "

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

(d) Revised to include washed fines previously omitted.

(e) Estimated.

PRODUCTION OF IRON ORE (Cont.)

Producing Country	ORE										Estimated Iron Content				
	1946	1947	1948	1949	1950	1951	1952	1946	1947	1948	1949	1950	1951	1952	
FOREIGN COUNTRIES (Cont.)															
Portugal ..	49	119,000	159	217	389,000	21,045	43,785	25	54,000	80	108	175,000	10,523	21,900	
Roumania (b) ..	105,000	1,490,001	206,000	319,000	2,087,792	470,000	644,000	93,000	670,000	720,000	144,000	940,000	212,000	290,000	
Spain ..	6,758,750	8,754,067	13,077,266	13,512,054	13,396,062	15,139,986	16,683,522	4,238,000	5,478,000	8,075,000	8,292,000	8,152,000	1,058,000	1,280,000	
Sweden ..	52,454	63,734	85,400	89,000	54,000	86,400	104,800	28,000	31,000	42,000	(a)	(a)	9,089,000	10,000,000	
Switzerland ..	22,000,000	26,000,000	31,000,000	35,000,000	44,000,000	50,000,000	55,000,000	(a)	(a)	(a)	(a)	(a)	(a)	(a)	
U.S.S.R. (b) ..	388,361	721,143	850,802	811,885	812,813	572,170	685,333	175,000	324,000	383,000	365,000	365,000	257,000	300,000	
Yugoslavia ..	1,644,850	1,533,448	1,841,964	2,497,400	2,532,200	2,778,100	3,051,658	895,000	830,000	978,000	1,350,000	1,370,000	1,445,000	1,594,000	
Algeria ..	1	—	383	212	61	843	1,069	(a)	(a)	(a)	(a)	(a)	(a)	(a)	
Egypt ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Liberia ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Morocco (French) ..	122,327	153,841	296,500	351,183	316,001	553,911	652,425	57,000	70,000	133,000	158,000	144,000	116,000	296,000	
Morocco (Spanish) ..	806,800	888,300	886,281	879,754	937,666	912,415	919,694	430,000	500,000	550,000	536,000	620,000	246,000	590,000	
Tunis ..	180,800	397,310	685,100	700,700	745,900	908,200	961,600	94,000	200,000	373,000	378,000	403,000	608,000	616,000	
Cuba ..	—	36,755	22,588	11,265	1,279	(a)	(a)	—	12,500	7,800	3,300	440	485,000	517,000	
Dominican Republic ..	—	—	—	—	—	—	—	—	—	—	—	—	(a)	(a)	
Mexico ..	271,095	327,195	332,000	357,000	413,000	450,000	490,000	168,079	222,494	225,459	242,679	281,000	307,644	334,000	
United States (c) ..	71,888,812	94,140,051	102,200,425	85,900,300	99,016,429	117,598,000	98,819,000	36,000,000	47,000,000	51,000,000	43,000,000	49,000,000	58,000,000	49,000,000	
Argentina ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Brazil ..	573,316	601,851	1,546,844	1,857,829	1,956,000	2,368,928	1,536,232	370,000	380,000	1,050,000	1,260,000	1,330,000	1,590,000	1,030,000	
Chile ..	1,158,462	1,710,111	2,868,125	2,699,593	2,906,591	3,124,204	2,273,983	726,000	1,087,000	1,655,000	1,637,000	1,743,000	1,930,000	1,371,000	
Venezuela ..	—	—	—	—	195,159	1,249,559	1,938,682	—	(a)	(a)	(a)	(a)	(a)	(a)	
China ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
French Indo-China ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Japan (d) ..	557,514	492,362	552,202	781,574	912,619	1,149,325	1,371,649	280,000	250,000	297,000	400,000	483,000	590,000	725,000	
Lebanon ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Philippine Republic ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Portuguese India ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Siam ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Turkey ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
New Caledonia ..	110,438	143,320	165,170	214,599	229,902	222,244	474,215	66,000	87,000	100,000	129,000	143,000	133,000	284,000	
TOTAL ..	133,000,000	166,000,000	195,000,000	197,000,000	221,000,000	260,000,000	262,000,000	—	—	—	—	—	—	—	
World's Total ..	154,000,000	187,000,000	217,000,000	220,000,000	246,000,000	288,000,000	294,000,000	—	—	—	—	—	—	—	

(a) Information not available.
 (b) Estimated.
 (c) Usable ore. Including shipments of manganese iron ore up to 35 per cent. Mn.
 (d) Including iron sand as follows (long tons): 1946—10,307; 1947—3,712; 1948—2,547; 1949—32,599; 1950—99,940; 1951—251,839; 1952—316,920.
 (e) Exports.

DETAILS OF PRODUCTION OF IRON ORE IN CERTAIN COUNTRIES

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
West Coast hematite ..	379,100	368,600	325,200	350,100	342,700	347,400	403,100
Jurassic ironstones—							
Lower lias	2,660,500	2,615,800	3,167,200	3,207,100	3,154,900	3,380,800	3,431,600
Middle lias	2,343,400	2,003,800	2,537,400	2,665,600	2,557,600	3,393,400	3,574,800
Inferior oolite ..	6,657,900	5,984,200	6,967,000	7,071,200	6,804,300	7,558,200	8,717,900
Coal measure ironstones	5,600	2,200	200	300	200	—	—
Other iron ore (hematite, limonite, etc.) ..	126,300	116,300	92,200	102,400	103,300	97,300	104,800
Sierra Leone—							
Red ore	360,192	468,916	546,084	578,592	595,140	552,160	523,852
Powder ore	273,002	275,974	322,239	406,761	478,674	519,628	566,368
Washed fines	96,204	95,746	84,276	103,683	91,225	68,537	62,275
Union of South Africa—							
Hematite	899,838	1,105,800	1,101,854	1,161,543	1,101,560	1,336,382	(a)
Magnetite	2,717	—	—	527	—	—	(a)
Carbonate	29,324	37,979	43,496	60,353	68,905	62,320	(a)
Canada (b) —							
Siderite (sintered) ..	552,000	508,000	(a)	(a)	(a)	(a)	(a)
Hematite	888,000	1,206,000	(a)	(a)	(a)	(a)	(a)
FOREIGN COUNTRIES							
France—							
Phosphoric	15,195,689	17,295,104	21,196,614	29,060,314	27,807,440	32,292,401	37,148,963
Medium phosphoric ..	611,468	860,561	1,256,801	1,594,978	1,540,670	2,131,842	2,624,825
Non-phosphoric	168,698	267,212	243,246	276,312	193,653	228,582	282,833
Italy—							
Iron ore	129,538	222,368	534,661	512,616	468,617	544,120	777,756
Manganiferous iron ore	17,869	20,217	23,050	28,040	22,828	23,782	39,979
Luxembourg—							
Siliceous iron ore ..	1,287,706	1,143,433	1,375,086	1,535,401	1,477,261	1,877,341	2,238,363
Calcareous iron ore ..	802,210	698,762	1,794,503	2,403,628	2,221,572	3,499,369	4,586,210
Ferruginous limestone ..	121,505	118,508	175,998	132,955	85,535	159,567	305,869
Poland—							
Hematite	7,500	9,190	(a)	(a)	(a)	(a)	(a)
Magnetite	21,578	39,052	(a)	(a)	(a)	(a)	(a)
Siderite	—	9,243	(a)	(a)	(a)	(a)	(a)
Limonite	35,944	38,094	(a)	(a)	(a)	(a)	(a)
Argillaceous iron ore ..	293,747	376,928	(a)	(a)	(a)	(a)	(a)
Bog iron ore	30,455	23,980	(a)	(a)	(a)	(a)	(a)
Portugal—							
Hematite	49	—	159	217	—	21,045	42,917
Magnetite	—	—	—	—	—	—	868
Sweden—							
Manganiferous iron ore	130,538	84,465	90,482	113,964	50,096	5,015	(a)
Other iron ore	6,628,212	8,669,602	12,986,784	13,398,090	13,345,966	15,134,971	(a)
By phosphorus content (c)—							
Under 0.006%	492,460	496,611	522,682	566,187	671,284	609,967	(a)
0.006% to under 0.04%	1,669,400	1,840,918	2,095,515	2,049,273	2,344,547	2,574,457	(a)
0.04% to under 0.1%	113,465	121,640	78,933	68,217	74,797	91,968	(a)
0.1% to under 0.7%	2,204,305	2,896,585	4,305,110	4,605,595	4,796,404	5,302,119	(a)
0.7% to under 1%	765,104	792,445	1,037,628	976,459	1,016,174	1,468,408	(a)
1% and over	1,514,016	2,605,868	5,037,398	5,246,323	4,492,856	5,093,067	(a)
Algeria—							
Non-phosphoric	1,644,850	1,531,448	1,841,964	2,497,400	2,532,200	2,779,100	3,051,658
Tunis—							
Non-phosphoric	180,800	397,310	685,100	700,700	745,900	908,200	961,600

(a) Information not available.

(b) Shipments. These figures do not agree with those on page 136 which refer to actual production.

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

DETAILS OF PRODUCTION OF IRON ORE (Cont.)

Producing Country	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
United States—							
Ore containing less than 5% Mn—							
Hematite*	65,728,172	84,535,465	90,686,138	76,262,577	87,157,960	101,533,000	83,516,000
Magnetite*	3,920,986	6,811,876	7,661,207	6,593,277	7,697,029	11,388,000	11,069,000
Limonite	686,402	1,201,408	2,176,149	1,545,595	2,615,402	3,015,000	2,729,000
Siderite	650	48	—	—	—	—	—
Pyrite cinder and sinter	506,903	542,723	479,998	535,998	574,969	569,000	604,000
Ore containing 5 to under 10% Mn	955,977	933,001	1,070,110	939,492	868,150	998,001	805,992
Ore containing 10 to under 35% Mn	89,722	115,530	126,823	23,361	102,919	94,824	94,917

* A small quantity of hematite is included with magnetite, and a small quantity of magnetite with hematite.

EXPORTS OF IRON ORE
(Domestic Produce)
(Long tons)

Exporting Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom	792	1,053	601	355	585	779	564
Sierra Leone	603,945	618,750	926,370	974,050	1,142,621	1,184,735	1,378,959
Union of South Africa	4	—	—	—	—	22,075	—
Canada (b)	1,022,550	1,562,479	955,604	} 2,277,053	1,988,817	2,880,149	3,434,820
Newfoundland	1,250,031	1,258,020	1,731,828				
Hong Kong	(a)	(a)	—	48,535	171,718	171,362	114,031
India	—	20	—	4,300	55,322	197,005	674,565
Malaya	3	—	69,539	462,431	520,899	782,665	1,007,489
Australia	4	14	40	1	—	—	—
Irish Republic—							
Bog ore	2,619	2,141	1,613	(a)	(a)	(a)	(a)
Burnt pyrites	7,996	4,325	15,291	12,489	33,983	26,402	24,233
FOREIGN COUNTRIES							
Austria	(a)	34,436	2,792	—	57,360	177,853	272,427
Belgium-Luxemburg E.U.—							
Iron ore	} 2,560	22,637	438,022	{ 292,167	101,601	200,160	441,302
Burnt pyrites .. ..								2,645	5,002	140,563
Czechoslovakia	48,251	15,730	(c) 126,589	(a)	(a)	(a)	(a)
Denmark—							
Bog ore (e)	4,083	6,232	9,753	7,951	23,064	54,864	175,764
Burnt pyrites	11,241	26,474	63,337	36,115	49,536	66,835	55,473
Finland	479	—	—	—	—	816	470
France	5,344,790	6,493,478	6,210,922	7,120,329	7,425,791	9,682,472	9,225,370
Germany (Federal) (d)	(a)	(a)	231	5,830	51,259	75,223	166,310
Greece	12,385	40,458	48,935	21,500	40,564	84,920	110,578
Italy—							
Iron ore	(a)	274	4,407	60	9,182	69,473	6,706
Burnt iron pyrites	(a)	14,169	281,120	309,746	497,295	411,353	384,939
Netherlands—							
Iron ore	—	—	72,030	66,357	57,521	(a)	155
Burnt iron pyrites	99,527	97,651	221,941	193,849	244,337	318,787	323,447
Norway—							
Iron ore	4,938	50,358	180,093	200,313	278,563	264,830	699,578
Burnt iron pyrites	3,891	11,846	23,539	36,505	31,912	61,103	111,722
Portugal—							
Iron ore	1,084	509	10	3	1	—	118,527
Burnt pyrites	(a)	(a)	(a)	(a)	(a)	198,736	319,465
Spain	776,476	718,269	804,418	973,917	920,742	1,525,465	1,647,601
Sweden—							
Iron ore	5,231,688	8,369,916	11,335,971	12,581,280	12,738,629	14,760,143	15,418,577
Burnt iron pyrites	60,321	16,079	122,866	17,271	113,314	244,987	211,027
Switzerland	78,667	69,454	122,097	90,861	53,370	98,525	109,304
Yugoslavia	(a)	(a)	(a)	(a)	333,047	276,679	152,857
Algeria	1,560,759	1,523,741	2,157,320	2,598,290	2,433,678	2,796,408	3,061,138
Liberia	—	—	—	—	—	170,000	876,974
Morocco (French)	93,500	176,370	200,089	356,539	308,913	560,673	641,279
Morocco (Spanish)	806,723	888,401	890,047	878,901	935,882	949,755	953,659
Tunis (f)	172,477	351,848	739,926	726,943	690,177	896,000	976,864
Cuba	(a)	(a)	34,498	10,599	28,999	9,203	107,647
Dominican Republic							
Mexico	9,661	64,347	157,197	170,918	189,082	174,188	112,001
United States	1,505,771	2,806,894	3,080,666	2,424,775	2,549,774	4,295,938	5,121,243
Brazil	63,396	193,630	589,824	664,905	876,067	1,309,139	1,536,163
Chile	1,165,100	1,719,409	2,583,542	2,633,047	2,554,901	2,644,169	1,798,637
Venezuela (g)	—	—	—	—	—	635,416	1,845,776
China	—	—	192,790	(a)	(a)	(a)	(a)
Lebanon	(a)	(a)	(a)	(a)	(a)	(a)	7,000
Philippine Republic	—	—	21,606	(a)	551,510	923,028	(a)
Portuguese India	—	13	5,335	48,781	(a)	(a)	456,628
New Caledonia	—	—	—	—	4,985	2,923	2,461

(a) Information not available.

(b) Including Newfoundland from April 1, 1949.

(c) January to October only.

(d) Including burnt pyrites.

(e) Used for purposes other than iron making.

(f) Including re-exports.

(g) Imports into the United States.

IMPORTS OF IRON ORE

(Less Re-exports)

(Long tons)

Importing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom	6,594,556	6,797,205	8,674,896	8,692,572	8,391,533	8,747,480	9,690,534
Canada	2,037,212	3,521,919	3,839,431	2,247,531	2,741,560	3,420,909	3,810,409
India	54	39	1,519	365	207	533	15
Australia	—	—	23	8	5,302	2,916	2,835
Irish Republic	65	—	387	—	174	576	1,000
FOREIGN COUNTRIES							
Austria—							
Iron ore	(a)	30,263	136,331	268,956	194,666	193,151	602,201
Burnt pyrites	(a)	24,632	277,502	305,344	388,111	342,553	370,690
Belgium-Luxemburg E.U.							
Iron ore	} 5,889,794	6,676,383	8,602,386	{ 8,926,738	8,123,841	10,569,420	10,826,780
Burnt iron pyrites .. ..								20,539	38,699	67,672	56,895
Czechoslovakia—							
Iron ore	1,276,875	1,813,924	b 1,570,635	(a)	(a)	(a)	(a)
Burnt pyrites	(a)	55,506	(b) 20,297	(a)	(a)	(a)	(a)
Denmark (c)	294	2,273	2,335	1,854	1,102	3,512	3,319
Finland (c)	79,837	77,768	149,032	109,219	91,947	176,908	97,632
France	96,714	185,707	251,852	389,533	165,340	315,251	430,813
Germany (Federal)—							
Iron ore	(a)	(a)	2,390,786	4,446,739	4,793,335	7,580,102	9,489,280
Burnt pyrites	(a)	(a)	(a)	(a)	(a)	(a)	1,613,690
Hungary (including burnt pyrites)	122,852	569,514	(a)	(a)	(a)	(a)	(a)
Italy	(a)	17,591	25,957	109,433	180,959	395,657	698,406
Netherlands	210,455	477,403	741,352	705,653	799,231	987,873	1,162,968
Norway	31,177	34,846	37,583	38,656	15,696	817	4,562
Poland	964,430	1,181,378	1,590,827	(a)	(a)	(a)	(a)
Spain	105,448	133,623	148,464	220,090	234,958	224,047	297,628
Sweden	907	909	498	455	484	510	340
Switzerland (d)	86,227	52,301	69,103	37,378	60,335	95,889	92,640
Algeria	1,719	4,057	—	—	—	986	—
Tunis	97	787	—	(a)	(a)	(a)	(a)
United States	2,746,600	4,889,326	6,086,070	7,394,569	8,215,865	10,145,415	9,760,329
Japan	—	—	522,798	1,535,453	1,402,335	3,040,010	4,692,833

(a) Information not available.

(b) January to October only.

(c) Total imports.

(d) Including chrome ore, pyrites, burnt pyrites, etc. (mainly pyrites).

(e) Bog ore and burnt pyrites.

PRODUCTION OF PIG-IRON AND FERRO-ALLOYS*

(Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom	7,761,200	7,784,600	9,276,400	9,498,500	9,632,900	9,668,800	10,727,700
Southern Rhodesia	—	—	16,434	27,268	33,453	31,641	38,588
Union of South Africa	551,161	632,053	640,803	697,322	721,339	791,840	1,111,000
Canada	1,380,039	1,955,331	2,105,780	2,104,087	2,230,018	2,517,094	2,601,876
India	1,438,054	1,435,396	1,464,623	1,610,822	1,680,481	1,823,946	1,852,910
Australia (b)	932,576	1,186,657	1,258,804	1,060,346	1,111,651	1,335,244	(e)1,430,027
TOTAL	12,064,000	12,994,000	14,763,000	14,998,000	15,409,800	16,168,600	17,762,100
FOREIGN COUNTRIES							
Austria	56,950	274,109	603,527	824,517	869,145	1,032,862	1,154,309
Belgium	2,126,703	2,772,293	3,866,937	3,690,076	3,636,420	4,791,232	4,698,807
Czechoslovakia	945,000	1,400,000	(c)1,624,000	(c)1,853,000	(c)2,020,000	(c)2,120,000	(c)2,376,000
Finland	75,871	62,147	91,110	99,619	63,259	99,919	106,718
France (d)	3,389,493	4,808,548	6,454,956	8,213,135	7,638,292	8,611,726	9,615,007
Germany—							
Federal Republic	2,050,511	2,228,200	4,589,360	7,027,400	9,323,263	10,528,000	12,673,000
Russian Zone	127,000	137,000	179,000	288,000	332,000	336,000	648,000
Hungary	157,800	298,800	378,000	421,000	(c) 474,000	(c) 498,000	(c) 566,000
Italy	201,305	377,877	517,763	437,970	563,827	1,032,735	1,186,591
Luxemburg	1,343,400	1,789,300	2,852,741	2,334,616	2,459,418	3,107,207	3,027,405
Netherlands	184,200	285,600	434,500	427,300	447,049	515,486	530,174
Norway	133,271	162,709	211,328	229,920	222,923	241,064	268,812
Poland	714,274	853,426	(c)1,189,000	(c)1,343,000	(c)1,464,000	(c)1,552,000	(c)1,754,000
Roumania (c)	54,000	90,000	188,000	270,000	330,000	344,000	384,000
Saar	242,577	642,594	1,116,460	1,557,065	1,657,205	2,332,197	2,510,086
Spain	500,022	510,351	528,214	619,164	661,764	659,027	771,985
Sweden	707,975	713,125	790,894	846,174	823,848	891,282	1,096,250
Switzerland	13,230	14,400	35,000	31,000	33,000	43,000	42,600
U.S.S.R.	9,900,000	11,300,000	13,800,000	16,400,000	19,100,000	21,800,000	24,900,000
Yugoslavia	83,000	160,000	170,000	187,000	209,000	244,512	268,574
Mexico	277,785	332,201	278,617	350,141	240,430	196,951	234,643
United States	41,531,095	53,676,178	55,278,178	49,032,844	59,285,992	64,686,199	56,566,031
Brazil	364,867	473,333	543,098	500,192	717,519	759,830	802,828
Chile	(a)	11,030	14,210	18,413	107,750	236,000	265,660
China	1,305	(a)	(a)	(c) 190,000	(c) 830,000	(c)1,100,000	(c)1,800,000
Japan	208,440	361,153	822,520	1,576,894	2,262,437	3,176,600	3,528,900
Turkey	76,670	97,464	100,419	114,862	109,462	111,691	192,988
TOTAL	66,000,000	84,000,000	97,000,000	98,000,000	116,000,000	131,000,000	132,000,000
WORLD'S TOTAL..	78,000,000	97,000,000	111,000,000	113,000,000	131,000,000	147,000,000	150,000,000

* For details see page 143.

(a) Information not available.

(b) Years ended June 30 of that stated.

(c) Estimated.

(d) Excluding electric furnace ferro-alloys.

(e) Excluding direct castings.

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

(Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Hematite	1,121,000	1,116,500	1,366,400	1,437,300	1,476,800	1,333,000	1,426,100
Basic	5,288,300	5,183,300	6,255,500	6,248,200	6,478,000	6,674,700	7,528,100
Foundry	1,134,500	1,281,800	1,395,600	1,555,300	1,466,500	1,417,100	1,522,000
Forge	65,900	70,300	92,800	87,400	60,500	69,500	74,100
Castings	1,400	1,000	2,600	2,300	3,000	2,200	1,800
Spiegeleisen (b)	35,300	28,700	31,500	28,800	18,100	28,800	31,100
Ferro-manganese (b)	114,800	103,000	132,000	139,200	130,000	143,500	144,500
Other ferro-alloys (c)—							
Tungsten (d)	2,000	3,100	2,600	2,000	1,700	(a)	(a)
Molybdenum (d)	600	1,100	1,200	1,400	1,600		
Vanadium (d)	200	300	300	200	300		
Ferro-chrome	7,400	6,800	9,700	9,800	9,900		
Refined ferro-manganese	4,100	3,800	5,300	6,400	6,000		
Ferro-phosphorus	500	1,100	1,100	1,100	900		
Ferro-silicon	6,500	6,300	7,500	5,500	4,600		
Canada—							
Basic	989,995	1,417,191	1,555,012	159,8,508	1,574,500	1,775,841	1,843,176
Foundry	135,021	209,475	193,077	192,650	212,735	273,450	196,929
Malleable	130,566	125,877	149,893	132,490	281,623	230,078	354,596
Ferro-alloys	124,457	202,788	207,798	180,439	161,160	237,725	207,175
India—							
Basic	1,083,036	972,434	1,048,487	1,100,286	1,274,069	1,420,950	1,464,456
Foundry	263,642	347,219	356,398	427,575	290,451	287,209	219,808
Direct castings	75,705	97,622	51,959	19,478	97,594	91,881	129,778
Ferro-alloys	15,611	18,121	7,779	63,483	18,367	23,906	38,868
FOREIGN COUNTRIES							
Belgium—							
Basic	1,980,804	2,592,764	3,605,582	3,509,329	3,508,173	4,569,414	4,511,402
Forge	36,130	44,427	59,888	16,864	10,865	42,427	187,405
Foundry	97,200	123,144	183,171	149,935	106,251	165,885	
Ferro-alloys	12,569	11,958	18,296	13,948	11,131	13,505	
Finland—							
Pig-iron	75,537	61,932	90,321	98,511	63,259	99,919	106,718
Ferro-alloys	334	215	789	1,108	—	—	—
France (e)—							
Phosphoric (over 1% P)—							
Basic	2,695,624	3,754,281	5,072,903	6,582,499	6,178,876	6,880,126	7,777,162
Foundry	204,075	291,646	393,018	369,120	281,576	347,504	290,825
Semi-phosphoric (from 0.12% to 1% P)—							
Foundry	23,687	45,146	129,497	222,228	275,933	360,071	366,689
Open hearth, basic	651	22,790	9,983	13,234	46,332	47,188	26,719
Hematite (less than 0.12% P)—							
Foundry	128,724	173,624	210,082	242,976	218,619	196,318	260,012
Open hearth	229,656	299,608	319,752	337,931	193,401	262,291	316,202
Bessemer							
Spiegeleisen	28,792	78,650	91,657	145,520	164,128	146,169	179,115
Ferro-manganese	16,231	33,536	64,245	83,012	107,694	112,242	111,425
Other pig-iron and ferro-alloys	62,053	109,267	162,919	216,615	171,733	259,817	286,858

(a) Information not available.

(b) Blast furnace ferro-alloys.

(c) Excluded from totals on page 142.

(d) Metal content.

(e) Excluding electric furnace ferro-alloys.

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

Producing Country	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Germany (Federal)—							
Hematite	70,000	125,000	200,000	317,000	402,000	402,000	499,000
Malleable	15,000	15,000	68,000	108,000	156,000	217,000	201,000
Basic	1,457,000	1,291,000	2,943,000	4,593,000	5,755,000	6,419,000	8,008,000
Foundry	243,000	247,000	382,000	511,000	732,000	776,000	873,000
Siegerland Special	13,000	9,000	25,000	40,000	66,000	86,000	108,000
Stahleisen	206,000	501,000	855,000	1,299,000	1,966,000	2,220,000	2,554,000
Spiegeleisen	18,000	7,000	54,000	65,000	85,000	106,000	134,000
Other pig-iron	20,000	17,000	20,000	37,000	69,000	193,000	135,000
Ferro-manganese	6,000	—	7,000	31,000	63,000	72,000	107,000
Ferro-silicon	4,000	18,000	28,000	26,000	30,000	37,000	54,000
Italy—							
Pig-iron	173,903	312,983	442,267	386,639	495,812	937,570	1,084,883
Spiegeleisen	11,673	19,066	20,680	17,603	13,422	18,665	10,685
Ferro-manganese	7,603	20,312	17,854	14,720	15,228	20,466	28,833
Ferro-silicon	1,438	9,035	17,550	12,167	17,267	28,455	37,232
Ferro-silico-manganese	2,657	6,201	7,273	2,711	8,552	8,641	10,996
Ferro-chrome	62	1,078	1,226	1,312	1,163	3,288	4,024
Ferro-titanium	12	40	61	79	85	135	100
Ferro-tungsten	9	91	48	18	43	78	53
Ferro-vanadium	—	—	—	8	6	32	77
Ferro-molybdenum	9	7	78	132	133	67	206
Silico-aluminium	288	522	322	295	414	613	528
Other ferro-alloys	3,733	8,542	10,404	2,286	11,682	14,725	8,974
Luxemburg—							
Basic	1,343,400	1,788,300	2,542,462	2,323,304	2,454,030	3,107,207	3,027,405
Foundry	—	1,000	40,279	11,312	5,388	—	—
Norway—							
Pig-iron	71,907	73,424	62,403	60,712	62,407	53,207	57,379
Ferro-silicon	26,030	36,309	43,771	63,592	62,866	67,402	81,965
Other ferro-alloys	35,334	52,976	105,154	105,616	97,650	120,455	129,468
Poland—							
Open hearth	606,795	664,443	(a)	(a)	(a)	(a)	(a)
Foundry	61,536	136,888	(a)	(a)	(a)	(a)	(a)
Phosphoric	1,016	(a)	(a)	(a)	(a)	(a)	(a)
Hematite	21,705	(a)	(a)	(a)	(a)	(a)	(a)
Spiegeleisen	10,744	(a)	(a)	(a)	(a)	(a)	(a)
Ferro-alloys	12,478	11,599	(a)	(a)	(a)	(a)	(a)
Saar—							
Basic	226,615	596,422	1,011,933	1,436,680	1,553,124	2,154,999	2,311,257
Foundry—							
Hematite	—	1,561	18,127	30,521	17,657	30,624	16,351
Phosphoric	—	34,593	62,097	41,247	52,270	116,124	110,345
Other pig-iron and ferro-alloys	15,962	10,018	24,303	48,617	34,154	30,450	72,133
Spain—							
Pig-iron	483,307	495,355	513,319	604,909	646,257	639,892	749,068
Ferro-manganese	11,822	10,098	9,909	8,799	8,846	11,763	11,940
Ferro-silicon	4,783	4,783	4,878	5,362	5,681	6,933	10,665
Ferro-tungsten	110	115	108	94	67	74	59
Ferro-chrome	(a)	(a)	(a)	(a)	176	165	253
Ferro-silico-manganese	(a)	(a)	(a)	(a)	647	203	(a)
Sweden—							
Open hearth, acid	138,972	119,647	131,489	798,141	772,330	838,029	1,033,988
do. basic	173,622	191,027	206,466				
Bessemer, acid	12,419	9,250	13,173				
do. basic	173,795	200,372	200,024				
Foundry-hematite	43,507	35,223	64,921				
do. phosphoric	93,170	101,226	106,753				
do. other	2,683	3,784	3,388				
Forge	24,462	12,934	15,254				
Castings	12,890	13,364	12,893				

(a) Information not available.

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

Producing Country	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
<i>Sweden—continued</i>							
Spiegeleisen	579	650	—	129	320	1,268	947
Ferro-manganese	3,935	4,878	6,989	10,294	9,322	9,314	11,320
Ferro-silicon	8,339	6,259	11,902	14,186	14,108	13,862	16,503
Silico-manganese	3,734	2,982	3,708	4,489	5,431	2,879	5,455
Ferro-chrome	13,252	9,068	10,778	14,648	16,851	18,761	20,345
Ferro-titanium	5	42	37	56	53	25	86
Ferro-tungsten	898	1,686	1,482	1,525	1,217	815	445
Ferro-molybdenum	420	329	295	574	578	680	691
Ferro-vanadium	39	91	185	158	133	139	118
Metallic silicon etc.	—	287	908	1,595	3,138	3,802	4,106
Silico-chrome	1,009	—	—	13	8	1,003	1,878
Metallic chrome	—	—	2	—	—	—	—
Other ferro-alloys	145	26	147	366	359	705	368
United States—							
Basic	30,113,978	40,004,235	41,352,735	36,522,639	44,536,108	48,404,026	42,420,704
Bessemer	5,296,798	6,412,685	6,903,152	6,303,050	7,223,757	8,076,745	6,647,960
Low phosphorus	149,119	295,641	343,237	269,214	299,480	281,004	274,534
Foundry	2,273,157	2,636,969	2,472,777	2,235,636	2,505,578	2,723,773	2,384,116
Malleable	1,955,612	2,566,743	2,313,086	2,151,282	2,840,217	3,003,008	2,785,864
Other pig-iron	192,404	163,113	235,742	207,966	261,742	256,335	230,516
Ferro - manganese and spiegeleisen	482,197	714,933	718,762	602,705	693,643	773,040	732,864
Ferro-silicon	927,804	716,943	752,129	595,823	749,703	820,612	668,803
Other ferro-alloys	140,026	164,916	186,558	144,529	175,764	347,656	420,670
Japan—							
Pig-iron	195,260	349,300	795,262	1,524,228	2,197,645	3,077,700	3,419,400
Ferro-chrome			146				
Ferro-manganese			17,872				
Ferro-molybdenum			—				
Ferro-phosphorus			541				
Ferro-silicon	13,180	11,853	7,320	52,666	64,792	98,900	109,500
Ferro-titanium			18				
Ferro-tungsten			337				
Ferro-vanadium			—				
Other ferro-alloys			1,015				

(n) Information not available.

PRODUCTION OF STEEL INGOTS AND CASTINGS *

(Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom	12,695,300	12,724,500	14,876,600	15,552,900	16,292,700	15,638,500	16,417,900
Southern Rhodesia	—	—	8,988	19,287	22,838	27,321	35,712
Union of South Africa (c) ..	498,926	588,304	669,375	719,018	743,125	933,131	1,183,600
Canada	2,077,932	2,630,315	2,857,572	2,848,551	3,021,049	3,186,357	3,322,939
India	1,293,291	1,255,849	1,255,989	1,352,696	1,437,858	1,499,703	1,578,180
Australia (b)	1,089,237	1,341,601	1,380,195	1,213,627	1,255,050	1,476,173	1,554,517
TOTAL	17,654,000	18,541,000	21,049,000	21,706,000	22,772,600	22,761,200	24,092,800
FOREIGN COUNTRIES							
Austria	184,054	350,972	637,943	821,397	931,636	1,011,559	1,039,912
Belgium	2,260,299	2,836,365	3,858,050	3,788,322	3,717,743	4,973,797	4,971,574
Czechoslovakia	1,642,000	2,250,000	(d)2,608,000	(d)2,718,000	(d)2,963,000	(d)3,260,000	(d)3,521,000
Finland	81,903	61,137	96,703	107,310	100,757	130,086	146,039
France	4,338,485	5,642,278	7,121,387	9,007,390	8,515,212	9,679,536	10,695,061
Germany—							
Federal Republic	2,511,000	3,012,000	5,473,000	9,011,000	11,929,719	13,293,000	15,556,000
Russian Zone	200,000	250,000	327,000	593,000	979,000	1,527,000	1,863,000
Hungary	347,300	587,400	750,000	835,000	1,006,000	(d)1,215,000	(d)1,374,000
Italy	1,135,078	1,676,918	2,091,583	2,023,035	2,325,119	3,014,594	3,479,289
Luxemburg	1,274,500	1,686,000	2,414,105	2,235,977	2,411,984	3,028,421	2,954,297
Netherlands	135,800	204,000	320,000	430,000	482,000	545,500	674,173
Norway	57,600	65,100	72,700	76,200	79,800	86,200	96,519
Poland	1,200,167	1,554,180	1,924,000	2,267,000	2,475,000	2,748,000	3,133,000
Roumania	155,000	180,000	(d) 335,000	(d) 452,000	(d) 549,000	(d) 636,000	(d) 687,000
Saar	286,233	696,979	1,208,307	1,729,551	1,868,327	2,561,575	2,778,235
Spain	630,259	598,071	614,204	708,263	802,356	805,261	892,967
Sweden	1,183,773	1,171,897	1,237,066	1,348,735	1,414,146	1,480,170	1,639,321
Switzerland	33,500	91,000	118,000	122,000	128,000	142,000	154,000
U.S.S.R.	13,100,000	14,300,000	18,300,000	22,900,000	26,900,000	30,800,000	33,900,000
Yugoslavia	200,000	305,000	361,000	395,000	421,000	426,848	435,368
Mexico	246,800	316,450	265,298	339,692	215,107	445,916	591,980
United States (e)	59,466,718	75,798,278	79,143,277	69,623,371	86,460,781	93,928,436	83,185,749
Brazil	337,202	380,859	475,455	595,889	767,155	828,485	881,402
Chile	(a)	(a)	29,400	31,060	55,050	175,500	241,400
China (d)	(a)	(a)	(a)	190,000	800,000	1,140,000	1,820,000
Japan	555,529	926,466	1,686,762	3,062,268	4,771,633	6,399,100	6,877,800
Turkey	78,632	91,100	100,119	101,367	89,351	133,270	151,041
TOTAL	91,000,000	114,000,000	132,000,000	135,000,000	163,000,000	184,000,000	184,000,000
WORLD'S TOTAL ..	108,700,000	132,600,000	153,000,000	157,000,000	186,000,000	207,000,000	208,000,000

* For details see page 147.

(a) Information not available.

(b) Years ended June 30 of that stated.

(c) Excluding steel castings for which the amounts produced for sale were 59,464 tons, 57,753 tons, 54,500 tons in 1950, 1951 and 1952 respectively.

(d) Estimated.

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

DETAILS OF PRODUCTION OF STEEL INGOTS AND CASTINGS IN CERTAIN COUNTRIES

(Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Ingots and castings—							
Open hearth, acid	1,228,600	1,228,800	1,398,300	1,367,000	1,310,700	1,259,400	1,238,800
do. basic	9,900,600	9,869,900	11,589,300	12,230,000	12,981,200	12,277,400	12,922,600
Bessemer, acid ..	209,800	207,900	218,300	226,400	247,800	241,400	245,900
do. basic ..	723,800	678,200	786,200	818,800	845,700	862,100	887,200
Ingots, electric ..	345,000	425,700	526,100	543,700	528,800	574,800	630,000
Castings, electric ..	134,300	150,000	180,800	196,000	207,600	244,500	300,200
All other ingots and castings ..	153,200	164,000	177,600	171,000	170,900	178,900	193,200
Southern Rhodesia—							
Ingots	—	—	8,003	18,242	21,678	26,125	34,497
Castings	—	—	985	1,045	1,160	1,196	1,215
Canada—							
Ingots—							
Open hearth, basic ..	1,694,606	2,177,294	2,340,130	2,400,032	2,474,859	2,604,469	2,695,550
do. electric ..	315,876	371,616	416,176	363,920	469,847	473,328	518,428
Castings—							
Open hearth, basic ..	21,934	21,518	30,394	25,599	20,079	27,462	30,686
Bessemer	536	662	353	71	207	252	346
Electric	44,980	59,225	70,519	58,929	56,057	80,846	77,929
India—							
Ingots—							
Open hearth, basic ..	1,160,347	1,134,519	1,140,567	1,225,813	1,307,518	1,387,618	1,464,867
do. acid ..	63,420	50,529	44,542	50,126	47,684	37,243	37,580
Electric	52,607	52,730	49,018	53,304	58,614	53,270	52,288
Castings	16,917	17,971	21,862	23,453	24,038	21,572	23,445
FOREIGN COUNTRIES							
Belgium—							
Ingots, open hearth ..	355,722	378,181	465,303	430,945	363,338	599,573	614,623
do. Bessemer, basic	1,835,752	2,349,232	3,247,487	3,212,876	3,243,932	4,200,659	4,143,529
do. electric	19,379	48,679	79,071	78,871	66,185	110,508	158,366
Castings	49,446	60,273	66,188	65,630	44,288	63,057	55,056
France—							
Ingots and castings—							
Bessemer, acid ..	54,264	58,617	70,467	103,660	73,879	75,442	72,581
do. basic ..	2,258,523	3,091,164	4,196,335	5,562,293	5,363,258	5,746,954	6,502,072
Open hearth, acid ..	—	1,357	—	1,793	—	6,214	2,256
do. basic ..	1,592,223	1,994,599	2,302,878	2,713,322	2,547,001	3,093,607	3,325,258
Crucible	3,246	4,249	4,268	2,649	2,119	3,686	3,819
Electric	430,229	492,292	547,439	623,673	528,955	753,633	789,075
Of which—							
Ingots	4,196,479	5,480,873	6,929,211	8,742,976	8,288,339	9,450,718	10,695,060
Castings	142,006	161,405	192,176	264,414	226,873	228,818	230,341
Germany (Federal)—							
Ingots—							
Open hearth	1,154,000	1,738,000	2,780,000	4,733,000	6,418,000	6,958,000	7,846,000
Bessemer, basic ..	1,277,000	1,153,000	2,469,000	3,993,000	4,968,000	5,597,000	6,825,000
Electric	19,000	46,000	105,000	128,000	214,000	307,000	373,000
Other	7,000	15,000	25,000	29,000	27,000	(b) 47,000	37,000
Castings—							
Open hearth	19,000	25,000	38,000	58,000	138,000	179,000	200,000
Bessemer	21,000	20,000	30,000	33,000	81,000	105,000	—
Electric	10,000	13,000	22,000	32,000	73,000	100,000	128,000
Other	4,000	2,000	4,000	5,000	11,000	(c)	147,000
Italy—							
Ingots	1,077,299	1,599,638	2,011,491	1,945,573	2,239,242	2,916,630	3,369,519
Castings	57,779	77,280	80,092	77,462	85,877	97,964	109,770

(a) Information not available.

(b) Including "other castings".

(c) Included with "other ingots".

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

Producing Country	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Luxemburg—							
Open hearth	1,000	1,000	267	59	—	—	—
Bessemer, basic	1,262,700	1,660,400	2,363,930	2,191,107	2,347,441	2,958,858	2,896,796
Electric	10,800	24,600	49,908	44,811	64,543	69,563	57,501
Norway—							
Ingots	49,600	56,700	64,300	67,900	71,000	77,200	84,064
Castings	8,000	8,400	8,400	8,300	8,800	9,000	12,455
Poland—							
Ingots	1,180,845	(a)	(a)	(a)	(a)	(a)	(a)
Castings	19,322	(a)	(a)	(a)	(a)	(a)	(a)
Saar—							
Ingots—							
Open hearth	82,087	169,684	290,913	416,060	437,205	553,118	634,384
Bessemer basic	199,109	512,907	882,256	1,267,884	1,385,420	1,937,479	2,074,857
Electric	1,447	8,492	20,510	25,524	23,555	46,766	43,261
Castings—							
Open hearth	286	658	1,696	2,066	2,430	2,904	4,380
Bessemer acid	1,518	2,098	3,303	3,280	2,768	3,793	4,122
Electric	1,786	3,140	9,629	14,737	16,949	17,515	17,231
Spain—							
Open hearth and Bessemer	572,655	550,557	561,175	657,135	715,526	706,750	784,582
Electric	57,604	47,514	53,029	51,128	86,830	98,511	108,385
Sweden—							
Open hearth, acid	182,450	179,081	180,043	203,661	198,884	211,038	218,929
do. basic	501,062	473,047	486,618	472,946	496,145	494,249	535,817
Bessemer, acid	21,493	23,567	27,563	27,317	27,857	28,236	30,646
do. basic	92,362	122,097	117,782	129,654	115,628	143,076	125,783
Electric	386,406	374,105	425,060	515,157	575,632	603,751	728,146
Yugoslavia—							
Open hearth	198,000	301,000	352,000	382,000	407,000	412,821	418,668
Electric	1,000	5,000	10,000	13,000	14,000	14,027	16,700
United States—							
Ingots—							
Open hearth, acid	418,175	482,149	479,494	364,604	425,362	540,169	481,525
do. basic	53,624,948	67,984,704	70,178,624	62,221,385	76,429,590	82,423,536	73,283,539
Bessemer	2,971,194	3,779,056	3,788,547	3,523,800	4,048,712	4,366,916	3,146,140
Crucible							
Electric	2,213,450	3,286,177	4,440,724	3,292,033	5,292,419	6,288,720	5,985,477
Castings (b)—							
Open hearth, acid	117,238	111,177	78,814	87,801	111,118	155,430	58,782
do. basic	46,747	59,284	102,494	48,355	54,027	65,256	146,188
Electric	74,964	95,729	74,580	85,393	99,553	88,409	84,098
Japan—							
Open hearth	161,650	474,944	1,141,851	2,386,900	3,838,400	5,290,000	5,746,400
Electric	393,879	451,522	544,911	599,000	740,500	916,100	934,200
Other	—	—	—	75,800	191,300	193,000	197,200

(a) Information not available.

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

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

(Domestic Produce)

(Long tons)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Pig-iron—							
Forge and foundry ..	30,757	41,750	1,072	3,459	15,490	3,641	119
Refined	(a)	(a)	429	6,401	16,574	11,986	4,410
Other	1,352	771	3	21	3,355	340	196
Spiegeleisen and ferro-							
manganese	58,636	9,069	3,236	9,267	2,530	1,437	1,785
Ferro-tungsten ..	277	960	1,082	911	1,171	394	96
Ferro-molybdenum ..		134	70	131	147	78	232
Ferro-titanium ..	981	310	309	490	568	535	519
Ferro-vanadium ..		57	131	87	209	58	73
Other ferro-alloys ..		294	278	326	622	358	621
Iron and steel ingots ..	25	23	95	134	84	130	22
Blooms, billets and slabs—							
Iron	12	285	7	18	29	7	10
Steel	3,059	3,240	3,862	2,602	5,856	4,407	87
Special steel ..	1,505	144	1,734	210	761	721	40
Old and scrap (c) ..	607	8,072	3,158	1,545	6,310	2,378	545
Channel Islands (Jersey)—							
Scrap	5,223	1,929	2,353	2,236	1,349	1,836	(a)
Southern Rhodesia—							
Pig-iron	—	—	2,792	4,490	6,135	8,162	3,666
Union of South Africa—							
Pig-iron	3,457	1,705	881	287	17,701	3,163	8,431
Ferro-alloys	242	2,053	615	690	969	(a)	(a)
Ingots, blooms, billets,							
etc.	8	636	1,535	784	39	(a)	(a)
Tool and drill steel ..	441	555	746	434	337	(a)	(a)
British West Indies—							
Trinidad and Tobago—							
Old and scrap ..	—	109	2,275	4,373	3,000	600	10,406
Canada—							
Pig-iron	838	1,317	591	11,166	173,686	199,675	335,703
Spiegeleisen	792	747	645	500	316	—	—
Ferro-chrome	5,604	24,762	20,103	16,204	29,389	39,046	39,545
Ferro-manganese ..	29,005	65,554	66,517	31,507	23,724	60,275	27,937
Ferro-silicon	42,161	54,949	55,095	59,310	53,271	69,262	71,574
Other ferro-alloys ..	7,529	9,334	7,083	6,146	2,655	1,466	2,993
Billets, ingots and blooms	70,818	75,920	31,940	60,853	152,196	34,855	50,292
Old and scrap	10,852	2,732	4,655	35,692	55,909	35,539	78,382
Tinplate scrap	22,999	24,961	22,359	19,688	21,483	23,266	25,347
Hong Kong (including re-							
exports)—							
Pig-iron	(a)	(a)	25	42	34	34	—
Special steel	(a)	(a)	51	347	602	1,624	2
Old and scrap	(a)	(a)	27,261	13,647	39,576	57,564	42,265
India—							
Pig-iron	8,367	1,730	39,751	68,142	30,402	51,399	8,573
Ferro-manganese ..	10,900	—	—	—	—	—	—
Old and scrap	—	—	53	263	—	32,439	325,315
Malaya (including re-							
exports)—							
Pig-iron	2	252	3,160	125	93	332	169
Scrap	444	1,461	53,074	50,531	19,556	38,878	110,739
Tinplate scrap	138	335	312	106	52	1,080	1,986

(a) Information not available.

(b) Included, if any, with "other ferro-alloys."

(c) Excluding ships intended for breaking up as follows (long tons):—1946—9,342; 1947—4,400; 1948—10,528; 1949—12,496; 1950—4,542; 1951—314; 1952—Nil.

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

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Australia—							
Pig-iron	54,054	103,602	61,311	17,705	11,054	5,812	64,700
Ferro-alloys	152	87	113	8	124	82	120
Ingots, blooms, billets, etc.	116,663	44,018	10,583	9,382	3,859	1,580	5,831
Old and scrap	19,698	10,469	14,445	9,569	(c) 10,674	(c) 17,585	(c) 9,861
New Zealand—							
Scrap	(a)	(a)	(a)	(a)	3,547	8,926	(a)
Irish Republic—							
Old and scrap	20,021	10,001	12,779	10,461	7,569	8,082	12,183
FOREIGN COUNTRIES							
Austria—							
Pig-iron	(a)	80,277	220,100	331,344	410,546	354,367	521,859
Iron ingots and bars	(a)	(a)	3,945	3,410	3,687	37	300
Steel ingots and bars	(a)	(a)	9,707	16,330	20,184	25,593	27,293
Scrap	(a)	71,922	50,560	19,332	2,667	2,382	11,372
Belgium-Luxemburg E.U.—							
Pig-iron	(a)	6,848	52,753	21,359	26,357	40,252	12,987
Ferro-alloys	(a)	(a)	1,112	128	268	73	154
Crude iron ingots	(a)	(a)	3,102	12,318	3,051	27,758	6,243
Steel ingots	(a)	(a)	193,327	395,014	280,496	391,171	515,372
Steel blooms and billets	(a)	72,121	15,890	507	700	11,216	17,513
Special steel	(a)	1,629	22,036	17,229	32,686	10,315	55,661
Old and scrap	(o)	(a)					
Czechoslovakia—							
Ferro-alloys	527	344	—	(a)	(a)	(a)	(a)
Billets of cast iron	468	—	—	(a)	(a)	(a)	(a)
Billets, blooms and bars of puddled iron	2,676	3,991	(b) 2,898	(a)	(a)	(a)	(a)
Old and scrap	—	239	(b) 623	(a)	(a)	(a)	(a)
Denmark—							
Old and scrap	44,436	50,030	61,780	15,375	29,274	9,308	12,010
Finland—							
Pig-iron	11,202	7,206	11,314	13,200	22,384	13,447	7,507
Ferro-alloys	398	12	—	424	150	265	—
Old and scrap	100	1	8	7	3	552	—
France—							
Pig-iron	18,754	12,061	87,570	193,061	284,400	323,062	309,954
Spiegeleisen	10	—	1,801	5,984	17,642	9,818	10,770
Ferro-manganese	334	951	102	172	34,378	28,846	18,287
Ferro-silicon	905	2,080	1,473	1,107	6,149	16,749	9,559
Ferro-chrome	39	37	2,192	2,177	3,061	13,706	2,080
Other ferro-alloys	219	260	20,496	158,910	454,956	285,788	174,816
Ingots	218	2,396	(a)	(a)	(a)	(a)	(a)
Blooms and billets, forged or rolled	2,555	3,764	(a)	(a)	(a)	(a)	(a)
Tool steel	618	1,705	(a)	(a)	(a)	(a)	(a)
Machine iron or steel	9,256	13,925	(a)	(a)	(a)	(a)	(a)
Other special steel	776	8,522	(a)	(a)	(a)	(a)	(a)
Old, filings and scrap	6,982	71,386	58,410	177,529	457,603	160,227	87,170
Germany (Federal)—							
Pig-iron	(a)	(a)	61,888	90,301	466,565	453,823	325,678
Ferro-manganese			—	36	510		
Ferro-silicon, etc.			18	—	85	1,536	2,551
Other ferro-alloys	(a)	(a)	112	603	2,056		
Rough blooms, bars, ingots, etc.			4,994	15,676	93,797	26,818	153,369
Old and scrap	(a)	(a)	548,072	2,432,096	2,545,531	721,537	428,515
Greece—							
Scrap	—	689	4,389	2,373	66	14,038	26,868

(a) Information not available.

(b) January to October only.

(c) Years ended June 30 of that stated.

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

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952				
FOREIGN COUNTRIES (Cont.)											
Italy—											
Pig-iron	(a)	1	11	301	16	1	6				
Spiegeleisen	}	}	—	80	1	—	2,622				
Ferro-manganese			—	597	285	466	694				
Ferro-silicon			2	2,721	2,791	22,307	13,617	20,112			
Ferro-silico-manganese			7	—	25	—	361	3,282			
Ferro-chrome			—	296	—	20	195	528			
Other ferro-alloys			—	—	—	8	172	527			
Ingots, blooms and sheet bar	(a)	135	17	50	395	1	98				
Scrap	(a)	—	3,316	169	1,157	55	109				
Netherlands—											
Pig-iron and ferro-alloys	114,182	160,165	274,947	231,006	252,225	239,084	219,256				
Ingots, blooms and billets	6,668	7,873	2,446	6,871	14,782	8,269	3,281				
Old and scrap	13,113	58,919	40,288	25,964	151,967	30,308	58,728				
Norway—											
Pig-iron—electric	43,909	47,214	36,135	19,098	26,095	39,665	35,614				
Ferro-chrome	4,492	11,486	15,464	14,559	16,152	21,624	19,414				
Ferro-manganese	13,178	31,761	58,133	52,879	82,178	79,161	83,488				
Ferro-silicon	21,109	32,973	34,964	40,329	52,805	49,343	54,736				
Ferro-silico-manganese	2,258	3,817	9,411	8,022	19,183	22,482	17,797				
Other ferro-alloys	—	—	20	46	665	342	87				
Steel ingots	177	106	9	28	3	(a)	(a)				
Old and scrap	23,811	5,915	352	129	1,187	238	1,746				
Poland—											
Pig-iron and ferro-alloys	(a)	44,662	(a)	(a)	(a)	(a)	(a)				
Portugal—											
Old and scrap	18,633	12,301	23,576	14,193	17,311	23,509	15,497				
Spain—											
Pig-iron	2,866	5,569	5,388	20,216	647	39,504	30,403				
Iron and steel ingots and blooms	44	27	1	13	7	9	(a)				
Old and scrap	38	5	1	—	38	—	18				
Sweden—											
Pig-iron	16,795	16,137	19,544	30,835	68,208	66,657	50,561				
Sponge iron	2,916	2,510	4,670	4,356	8,517	14,073	8,657				
Ferro-manganese	287	1,326	117	725	981	369	365				
Spiegeleisen	107	114	—	—	—	—	92				
Ferro-silicon	779	468	1,134	1,234	5,653	4,794	5,783				
Ferro-silico-manganese	48	53	20	203	878	220	52				
Ferro-chrome	1,952	3,650	271	1,079	4,624	5,150	6,488				
Ferro-tungsten	288	1,024	704	759	758	347	107				
Other ferro-alloys	234	289	224	290	442	800	709				
Steel ingots	—	—	—	—	19	9,196	8,527				
Steel blooms	98	148	98	—	137	—	92				
Tool steel	420	426	519	325	436	688	436				
Other special steel	1,227	1,251	1,670	1,924	2,553	2,607	1,961				
Old, filings and scrap	2,279	3,715	3,088	2,975	4,381	4,697	5,849				
Switzerland—											
Pig-iron and steel, etc. ..	168	570	3,206	7,201	9,927	525	65				
Ferro-chrome and ferro-silicon	77	540	1,728	1,569	1,289	3,724	3,724				
Old, filings and scrap	19,218	10,883	3,602	998	30,781	5,852	7,266				
Yugoslavia—											
Ferro-chrome	}	}	}	}	2,216	3,206	1,689				
Ferro-manganese					1,321	846	2,322				
Ferro-silico-manganese					(a)	(a)	(a)	(a)	143	1,283	359
Ferro-silicon					—	—	—	—	475	845	329
Other ferro-alloys					—	—	—	—	—	167	20
Algeria—											
Old, filings and scrap	114	16,201	19,644	2,413	63,731	78,805	67,231				

(a) Information not available.

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

Exporting Country and Description	1946	1947	1948*	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Egypt (including re-exports)							
Scrap	1,029	—	20	216	118	—	(a)
Morocco (French)—							
Old and scrap	169	4,445	9,545	9,693	19,422	(a)	21,955
Mozambique—							
Scrap	272	2,011	1,105	1,270	159	1,688	(a)
Tunis—							
Scrap	(a)	(a)	(a)	46,773	24,202	(a)	(a)
Cuba—							
Old and scrap	(a)	(a)	34,636	12,344	18,215	29,764	(a)
Mexico—							
Ferro-alloys	22	—	—	—	1	486	918
Ingots	15,116	11,315	—	—	3	—	—
United States—							
Pig-iron	85,388	35,895	6,279	72,597	6,083	5,853	12,576
Ferro-manganese and spiegeleisen	9,342	18,280	17,630	5,917	841	641	1,327
Ferro-chrome	2,241	2,751	6,030	1,964	309	214	1,138
Ferro-molybdenum ..	331	425	531	426	526	662	487
Ferro-vanadium	50	80	107	87	37	55	131
Ferro-silicon	2,824	1,212	2,211	2,281	1,771	2,478	6,464
Ferro-tungsten	81	37	560	277	149	127	132
Ferro-titanium	491	455	429	160	153	157	290
Other ferro-alloys ..	1,291	2,079	47,474	4,791	38,283	49,391	39,772
Steel ingots, slabs, blooms, billets and sheet bars	404,048	438,584	195,840	185,147	53,347	119,003	635,778
Old and scrap	121,655	146,675	183,322	262,280	186,406	196,344	299,381
Tin plate scrap and waste	6,831	21,218	29,246	41,865	55,309	56,765	3,570
Brazil—							
Pig-iron	22,650	28,999	64,169	11,456	(a)	(a)	5,642
Ferro-manganese	2	—	49	177	(a)	4,532	1,060
Ferro-nickel	—	15	—	—	(a)	54	89
Ferro-silicon	6	—	1,019	672	(a)	1,705	830
Chile—							
Ferro-manganese	1,841	3,592	4,885	6,533	4,178	6,445	1,975
Ingots	354	3,440	349	—	49	48,330	53,866
China—							
Pig-iron	1,968	—	(a)	(a)	(a)	(a)	(a)
Iran (b)—							
Ingots, old and scrap ..	54	2	(a)	(a)	(a)	(a)	(a)
Japan—							
Ferro-chrome	}	}	520	1,252	1,319	251	(a)
Ferro-manganese					2,496	3,630	(a)
Ferro-silicon					451	(a)	(a)
Other ferro-alloys ..					2,737	1,902	(a)
Scrap					67,863	9,754	(a)
Korea—							
Pig-iron (c)	(a)	7,449	(a)	(a)	(a)	(a)	(a)
Syria and Lebanon—							
Old and scrap	205	(a)	(a)	(a)	(a)	(a)	(a)
Turkey—							
Ingots and blocks	4,906	27,031	2,710	738	—	23,319	18,849
Ferro-Alloys	(a)	(a)	(a)	(a)	(a)	1,968	—
Old and scrap	—	4,164	2,784	1,130	2,658	20,686	41,730

(a) Information not available.

(b) Years ended March 20 of the year following that stated. Including re-exports.

(c) Imports into Japan from the country indicated.

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

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Pig-iron—							
Charcoal	7	—	3,426	40	411	1,143	2,242
Forge and foundry ..	492	1,414	1,483	—	6,269	5,481	2,471
Hematite	—	2,465	37,373	110,827	25,300	53,282	107,982
Basic	18,245	5,874	15,574	148,931	159,454	237,785	613,389
Other pig-iron	950	1,126	1,500	2,021	3,149	3,440	5,402
Spiegeleisen and ferro- manganese	150	1,685	—	—	485	1,167	718
Ferro-silicon	33,144	46,102	58,832	65,148	65,608	64,136	84,433
Ferro-silicon-chrome ..							
Ferro-chrome	3,683	20,815	15,773	10,054	12,117	22,279	33,729
Other ferro-alloys ..	7,706	9,581	11,794	9,125	11,246	13,074	14,302
Iron and steel ingots ..	74,809	111,767	19,180	8,188	419	—	—
Blooms, billets, slabs—							
Iron	5	71	37	112	47	2	17
Steel	299,569	201,224	162,388	299,200	160,751	102,657	387,014
Special steel—							
Ingots, blooms and billets	101	2,512	11,816	1,701	152	1,301	368,509
Old and scrap (b) ..	443,028	378,588	857,621	2,097,162	1,958,310	589,429	728,386
Anglo-Egyptian Sudan—							
Pig-iron	40	—	100	—	—	248	(a)
Crude iron and steel ..	1,902	4,120	3,402	5,358	5,022	5,673	8,363
Kenya—							
Pig-iron	(a)	(a)	379	1,000	300	201	558
Ingots, blooms, etc. ..	(a)	(a)	19	—	1	6	—
Mauritius—							
Pig-iron	21	10	17	20	25	20	14
Northern Rhodesia—							
Pig, ingots, etc.	676	199	1,760	4,116	5,484	6,580	5,122
Southern Rhodesia—							
Pig, ingots, etc.	2,859	1,710	2,436	1,070	297	698	4,340
Tool and drill steel ..	815	670	651	480	425	269	199
South West Africa—							
Pig-iron	1	18	46	1	107	3	(a)
Tanganyika—							
Pig-iron	(a)	(a)	105	330	189	356	209
Ferro-alloys	(a)	(a)	(a)	(a)	20	76	—
Ingots, blooms, etc. ..	(a)	(a)	12	21	2	1	1
Union of South Africa—							
Pig-iron and steel ingots	1,644	571	630	610	656	198	(a)
Ferro-silicon	234	92	9	171	11	5	(a)
Ferro-manganese	5	1	29	83	18	39	(a)
Other ferro-alloys ..	298	300	425	203	78	161	(a)
Tool and drill steel ..	1,422	1,538	1,326	1,146	2,487	1,891	4,507
British West Indies—							
Jamaica—							
Pig-iron	—	—	—	120	—	—	—
Trinidad and Tobago—							
Pig-iron	1	—	10	22	6	(a)	1
Ingots, etc.							

(a) Information not available.

(b) Excluding ships intended for breaking up as follows:—

Year	Long tons
1946	Nil
1947	41,505
1948	75,640
1949	43,886
1950	124,890
1951	52,511
1952	116,203

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

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES (Cont.)							
Canada (b)—							
Pig-iron	10,826	7,940	6,587	18,331	26,454	19,299	1,487
Sponge iron	50	—	—	—	9	39	6
Ferro-manganese	1,007	487	484	1,327	908	261	1,454
Ferro-silicon	416	388	486	441	2,443	4,256	4,875
Ferro-tungsten	26	306	172	135	96	450	221
Silico-manganese	197	3	53	18	73	302	136
Other ferro-alloys	924	1,428	1,191	684	708	520	1,197
Ingots, blooms and billets	4,645	7,889	46,911	53,633	22,918	106,157	129,791
Scrap	175,137	167,439	281,944	254,353	163,525	95,953	183,685
Newfoundland (c)—							
Pig-iron and ferro-alloys	359	70	186	(c)	(c)	(c)	(c)
Ceylon—							
Pig-iron	549	1,210	124	1,107	707	1,482	470
Cyprus—							
Pig-iron	13	52	421	655	1,788	132	299
Old and scrap	445	300	123	305	(d) 1,075	(d) 2,076	(d) 318
Hong Kong (total imports)—							
Pig-iron	(a)	(a)	419	1,618	1,493	241	651
Ingots, blooms and billets	(a)	(a)	(a)	68	196	588	459
Special steel	(a)	(a)	72	124	522	673	162
Old and scrap	(a)	(a)	9,998	6,474	3,194	9,440	3,877
India—							
Pig-iron	—	100	294	23	322	14	20
Ingots, blooms and billets	10,638	411	321	11,912	70,857	33,322	28,047
Tool steel	80	186	51	344	155	227	737
Ferro-alloys	1,893	918	854	2,100	1,111	3,718	88
Old and scrap	(e) 8,449	(e) 18,542	(e) 7,241	7,029	11,664	3,861	(d) 12,883
Malaya (total imports)—							
Pig-iron	60	1,565	632	726	3,565	13,668	2,719
Scrap	12	52	718	2,466	6,032	2,209	3,383
Tinplate scrap	30	—	—	—	25	3,798	25
Pakistan (f)—							
Pig-iron	(a)	(a)	(a)	(a)	(a)	5,640	615
Ferro-alloys	(a)	(a)	(a)	(a)	(a)	320	33
Ingots, blooms and billets	(a)	(a)	(a)	(a)	(a)	10,480	32,729
Tool steel	(a)	(a)	(a)	(a)	(a)	24	27
Old and scrap	(a)	(a)	(a)	(a)	(a)	3,526	303
Australia—							
Pig-iron	—	10	400	1,020	12,647	11,503	6,232
Ferro-manganese	739	144	59	709	339	80	56
Ferro-chrome	(a)	(a)	(a)	(a)	(a)	(a)	1,513
Ferro-molybdenum	(a)	(a)	(a)	(a)	(a)	(a)	56
Other ferro-alloys	329	1,225	896	3,490	486	1,345	862
Ingots and billets of high grade carbon alloy steels	6	8	6	585	754	220	673
Other high grade carbon alloy steels	73	27	79	187	1,172	1,163	1,860
Scrap	15	1,216	(d) 228	(d) 1,156	(e) 1,665	470	748
New Zealand—							
Pig-iron	7,510	7,974	16,237	8,117	14,298	6,709	15,398
Billets and blooms	774	2,908	7,326	2,394	4,736	4,249	6,114
Special steel	270	555	331	1,224	1,576	644	1,912

(a) Information not available.

(b) Including Newfoundland from April 1, 1949.

(c) Years ended March 31 following that stated. Included with Canada from April 1, 1949.

(d) Excess of re-exports.

(e) Total imports.

(f) Years ended March 31 following that stated. Included with India prior to 1948.

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

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
Irish Republic—							
Pig-iron	3,264	2,345	3,586	3,989	8,687	3,788	3,199*
Ferro-alloys	(a)	(a)	(a)	(a)	(a)	(a)	81
Ingots, blooms and billets	(a)	(a)	(a)	(a)	3,670	4,780	6,412
Crude forgings and castings	365	216	220	303	125	103	248
Old and scrap	949	1,635	185	1,747	1,832	—	741
FOREIGN COUNTRIES							
Austria—							
Pig-iron	(a)	982	836	2,071	2,411	2,041	1,824
Ferro-manganese	(a)	1,119	1,913	3,379	5,413	4,444	5,558
Ferro-silicon	(a)	496	1,107	2,001	2,717	3,289	6,862
Other ferro-alloys	(a)	1,034	2,640	4,494	6,399	4,713	5,410
Scrap	(a)	129	19,178	42,826	70,438	58,968	45,379
Belgium-Luxemburg E.U.—							
Pig-iron	63,261	69,721	69,293	91,000	82,295	117,217	223,903
Ferro-manganese	4,484	10,467	84,982	52,667	47,316	78,626	81,421
Other ferro-alloys	4,520	848	1,056	15,209	9,705	20,800	19,597
Crude iron ingots	(a)	(a)	99	118	1,908	95	2,288
Steel ingots	(a)	(a)	99	110	90	148	199
Blooms and billets	6,764	2,380	2,759	4,654	9,636	4,221	7,450
Special steel	4,833	3,270	5,450	5,398	6,751	8,204	10,746
Old and scrap	52,160	64,900	352,515	325,061	388,790	259,073	185,112
Bulgaria—							
Pig-iron	10,286	(a)	(a)	(a)	(a)	(a)	(a)
Old and scrap	149	(a)	(a)	(a)	(a)	(a)	(a)
Czechoslovakia—							
Pig-iron—							
Foundry	3,334	5,136	(b) 49,682	(a)	(a)	(a)	(a)
For refining or puddling	821	1,615	(b) 266	(a)	(a)	(a)	(a)
Other ferro-alloys	3,061	12,135	(b) 9,907	(a)	(a)	(a)	(a)
Ingots	8	—	(b) —	(a)	(a)	(a)	(a)
Billets, blooms, bars of puddled iron	10	62	(b) 72	(a)	(a)	(a)	(a)
Old and scrap	298	85,057	(b) 135,968	(a)	(a)	(a)	(a)
Denmark—							
Pig-iron	40,720	34,404	22,217	36,173	52,821	54,937	49,929
Ferro-alloys	5,029	9,477	6,988	11,745	5,324	6,666	6,039
Old and scrap	417	2,750	2,769	3,050	3,214	1,658	2,609
Finland (total imports)—							
Pig-iron	2,193	15,366	18,667	23,128	7,788	7,399	21,136
Billets	1,778	10,712	18,619	19,463	13,929	33,272	(a)
Ferro-manganese and spiegeleisen	904	1,197	1,618	1,030	696	1,637	} 4,016
Other ferro-alloys	159	920	1,493	1,787	950	1,230	
Old and scrap	11,085	63,331	62,631	33,301	13,385	4,118	(a)
France—							
Pig-iron—hematite	16,236	7,416	16,766	10,328	7,860	10,860	12,457
do. other	13,377	2,671	671	13	2,116	3,682	3,511
Spiegeleisen	17,698	67	12,048	2,568	2,406	1,915	2,736
Ferro-manganese	11,930	11,905	244	148	102	153	379
Ferro-silicon	1,898	1,500	} 960	552	1,681	41	195
Ferro-chrome	134	832					
Other ferro-alloys	3	515	} 1,675	10,339	1,993	5,039	1,425
Ingots	1,783	702					
Blooms and billets, rolled or forged	16,622	45,218	33,172	2,412	23,423	67,168	44,320
Tool steel	531	1,172	(a)	(a)	(a)	(a)	(a)
Machine iron or steel	18,942	5,000	(a)	(a)	(a)	(a)	(a)
Other special steel	7,272	9,108	(a)	(a)	(a)	(a)	(a)
Old, filings and scrap	21,612	38,320	42,001	14,264	3,501	5,999	9,321

(a) Information not available.

(b) January to October only.

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

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952		
FOREIGN COUNTRIES (Cont.)									
Germany (Federal)—									
Pig-iron	(a)	(a)	—	—	11,200	30,557	145,371		
Ferro-manganese			2,365	3,427	1,369	} 24,833	} 29,961		
Ferro-silicon, etc.			13,849	7,341	8,225				
Other ferro-alloys			5,426	2,004	3,526				
Rough blooms, ingots, bars, etc.					69	121	8,496	6,588	153,369
Old and scrap			916	4,664	43,524	10,314	25,811		
Greece—									
Pig-iron	1,779	3,439	6,452	10,307	15,441	11,125	11,493		
Italy—									
Pig-iron	(a)	150,742	130,238	206,811	206,010	140,547	100,493		
Spiegeleisen	—	197	58	—	1,537	3,329	4,064		
Ferro-chrome	116	81	524	1,534	1,924	907	1,407		
Ferro-manganese	1,066	199	4,719	2,939	1,696	219	19		
Ferro-molybdenum	75	27	61	26	85	78	218		
Other ferro-alloys	—	367	705	369	299	192	329		
Steel ingots	(a)	743	32,000	24,784	61,884	28,563	28,811		
Steel blooms and sheet bar	(a)	1,763	2,060	2,514	47,312	98,871	65,509		
Old and scrap	(a)	73,460	128,034	383,802	495,083	673,368	673,744		
Netherlands—									
Pig-iron	} 2,376	1,649	996	2,696	8,302	6,688	3,412		
Ferro-alloys			3,601	5,169	6,518	7,546	7,062		
Ingots, blooms, billets, etc.			804	737	1,511	1,819	3,701	4,008	3,852
Old and scrap			6,074	10,521	1,705	1,154	3,181	2,294	3,574
Norway—									
Pig-iron	1,520	1,337	1,533	1,770	3,796	28,222	16,277		
Ferro-tungsten and ferro-vanadium	10	35	56	2	19	3	21		
Other ferro-alloys	57	34	87	6	20	45	93		
Ingots	180	66	102	314	29	56	289		
Alloyed steel	707	931	1,355	1,455	(a)	(a)	(a)		
Old and scrap	2,568	2,881	4,097	31,918	6,735	4,817	5,528		
Poland—									
Pig-iron	822	} 52,485	(a)	(a)	(a)	(a)	(a)		
Old and scrap	10,135								
Portugal—									
Iron and steel ingots	9,408	16,389	15,247	13,248	11,797	14,009	7,442		
Old and scrap	9,656	1,812	1,162	1,909	837	1,414	596		
Spain—									
Pig-iron	127	1	—	228	25	2,738	6,666		
Ferro-manganese	1	11	36	2	3,476	866	(a)		
Other ferro-alloys	403	264	143	697	1,147	280	(a)		
Special steel	839	802	2,108	1,549	1,906	1,208	2,729		
Old and scrap	28,664	13,787	33,325	47,105	80,270	47,726	23,612		
Sweden—									
Pig-iron	89,625	138,607	98,644	93,597	100,368	72,934	116,862		
Spiegeleisen	6,257	607	—	20	128	—	57		
Ferro-manganese	5,362	583	2,073	1,866	2,258	2,327	1,445		
Ferro-chrome	725	1,116	2,140	2,255	2,035	2,462	1,612		
Ferro-silicon and ferro-silico-manganese	1,591	737	968	690	401	218	392		
Ferro-tungsten	20	—	5	24	72	10	—		
Other ferro-alloys	375	559	273	495	411	679	262		
Tool steel	19	17	16	8	1	(a)	(a)		
Old, filings and scrap	69,797	64,881	93,357	147,463	172,830	78,608	92,378		
Switzerland—									
Pig-iron, steel billets, blooms, etc.	111,037	109,365	143,043	55,396	85,745	91,158	103,795		
Ferro-chrome and ferro-silicon	2,260	2,769	4,434	1,321	1,280	8,037	3,070		
Old, filings and scrap	8,533	60,916	60,792	53,013	4,950	1,890	3,144		
Yugoslavia—									
Pig-iron	} (a)	(a)	(a)	(a)	23,712	20,374	17,643		
Ferro-alloys					206	207	144		
Scrap					67,746	12,963	21,274		

(a) Information not available.

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

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Algeria—							
Pig-iron	475	1,586	2,531	1,748	1,555	1,282	1,738
Spiegeleisen and ferro-alloys	99	98	221	291	171	456	475
Ingots, blooms and billets	170	224	112	3,310	13,777	18,540	17,421
Tool and special steel ..	31	225	(a)	(a)	(a)	(a)	(a)
Machine iron and steel ..	(a)	2,888	(a)	(a)	(a)	(a)	(a)
Old, filings and scrap ..	1,214	840	1,173	3,507	281	253	147
Egypt—							
Pig-iron and spiegeleisen	377	2,755	1,636	4,543	12,911	6,683	3,153
Ferro-alloys	9	11	268	545	244	973	657
Ingots, billets, etc. ..	20	12	514	1,190	5,588	2,549	541
Special steel	1,534	586	1,739	1,228	1,906	746	934
Scrap (total imports) ..	903	3,755	3,700	3,875	2,499	4,196	3,050
Madagascar—							
Blooms, billets, etc. ..	1,922	3,202	7,213	(a)	(a)	(a)	(a)
Morocco (French)—							
Pig-iron	539	1,052	968	1,307	1,167	(a)	1,310
Ferro-alloys	42	46	141	76	39	(a)	160
Scrap, etc.	5,086	6,218	3,458	3,237	2,259	(a)	1,573
Morocco (Spanish)—							
Ingots	38	11	(a)	(a)	(a)	(a)	(a)
Tunis—							
Pig-iron	51	314	96	127	(a)	(a)	(a)
Steel ingots and billets ..	5,617	7,127	9,116	(a)	(a)	(a)	(a)
Tool steel	(a)	(a)	—	(a)	(a)	(a)	(a)
Old and scrap	2	2	(a)	(a)	(a)	(a)	(a)
Cuba (total imports)—							
Iron ingots	(a)	(a)	106	271	492	934	(a)
Mexico—							
Pig-iron	2	—	—	1,933	913	1,219	1,723
Ferro-manganese	474	1,307	1,337	2,395	2,372	940	894
Other ferro-alloys	732	915	845	1,606	1,980	2,917	2,861
Steel ingots, blooms and billets	385	74	34	173	1,036	50	5
Scrap	44,317	38,444	32,202	101,714	117,254	117,892	129,523
United States—							
Pig-iron	12,581	29,129	195,269	89,110	710,683	952,244	366,638
Spiegeleisen	321	—	—	1,553	7,737	—	39
Ferro-chrome	1,303	9,535	8,052	6,577	19,315	24,368	19,067
Ferro-manganese	28,687	72,596	87,697	58,048	96,691	106,932	57,227
Ferro-silicon	11,248	12,374	6,557	6,641	13,162	26,323	11,450
Ferro-titanium	3	40	25	34	116	222	100
Ferro-tungsten	—	—	—	28	785	901	281
Sponge iron	1,194	1,040	2,838	3,099	6,733	11,445	5,420
Bar-iron, slabs, blooms, etc.	361	223	170	316	345	625	284
Steel ingots, blooms, etc.	758	1,352	20,790	46,706	161,178	124,665	54,566
Scrap	26,989	32,314	370,600	977,154	621,589	320,624	94,550
Tin plate scrap	24,530	30,797	41,084	41,028	42,394	51,571	42,659
Argentina—							
Pig-iron	33,816	64,087	111,856	80,961	91,824	69,646	(a)
Ferro-manganese	1,677	1,679	2,222	1,722	2,217	2,394	(a)
Ferro-silicon	1,955	2,007	2,084	1,155	1,140	2,348	(a)
Ingots	50,969	54,572	45,664	62,574	160,984	177,680	(a)
Old and scrap	1,468	26,185	43,365	88,150	61,756	17,790	(a)
Brazil (total imports)—							
Pig-iron, etc.	7,120	7,855	993	1,694	(a)	1,652	1,591
Ferro-manganese	16	2	49	55	(a)	13	—
Ferro-silicon	982	712	93	565	(a)	28	(a)
Special steel	674	270	221	882	(a)	107	463
Filings	44	52	45	28	(a)	113	299

(a) Information not available.

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

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Chile—							
Ingots	970	693	1,116	1,076	305	(a)	(a)
Ferro-chrome	22	22	—	(a)	(a)	(a)	(a)
Ferro-manganese	201	257	132	(a)	(a)	(a)	(a)
Ferro-silicon	47	342	387	156	853	1,331	1,173
Old and scrap	1,391	(a)	(a)	(a)	(a)	(a)	(a)
Colombia—							
Pig-iron	795	(a)	(a)	1,261	1,793	(a)	(a)
Scrap	691	(a)	(a)	(a)	(a)	(a)	(a)
Peru—							
Pig-iron	1,305	(a)	(a)	1,130	(a)	681	446
Ferro-alloys	42	(a)	(a)	66	(a)	173	110
Uruguay—							
Ingots	10,781	12,282	7,741	6,332	11,222	16,137	(a)
Ferro-manganese	(a)	(a)	172	133	66	} 370	(a)
Ferro-silicon	(a)	(a)	365	231	116		
Other ferro-alloys	(a)	(a)	15	—	14		
Iran (b)—							
Ingots, etc., old and scrap	3,638	6,278	(a)	(a)	(a)	1,361	(a)
Israel—							
Pig-iron	1,521	(a)	(a)	2,561	2,450	(a)	(a)
Ferro-alloys	(a)	(a)	(a)	9	3	(a)	(a)
Japan—							
Pig-iron	1,968	8,276	10,802	135,844	1,559	42,396	(a)
Ferro-manganese	—	—	—	—	(a)	27	(a)
Ferro-silicon	—	—	—	—	(a)	35	(a)
Steel ingots	—	—	—	—	2	576	(a)
Old and scrap	—	124	—	—	43,926	310,763	497,777
Syria and Lebanon—							
Old and scrap	651	(a)	(a)	(a)	(a)	(a)	(a)
Turkey—							
Iron ingots and blocks ..	—	210	—	—	—	9	(a)
Ferro-alloys	405	79	661	659	413	103	115
Steel ingots and blocks	2	41	1	—	—	—	(a)
Special steel	310	172	400	600	951	2,878	2,613
Old and scrap	8	42	55	16	5	13	2

(a) Information not available.

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

LEAD
PRODUCTION OF LEAD ORE
(In terms of metal)
(Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Great Britain	2,763	3,177	2,394	2,465	3,288	4,847	5,683
Nigeria	—	71	269	28	12	4	27
Northern Rhodesia (b) ..	8,239	15,640	13,020	13,945	13,685	13,970	12,600
Southern Rhodesia	—	—	81	—	—	—	—
South West Africa	—	(c) 12,400	33,068	37,785	33,151	38,611	52,008
Tanganyika	5	—	—	—	(f) 642	(f) 1,537	(f) 2,371
Uganda	1	5	10	54	30	4	7
Union of South Africa ..	150	131	160	165	593	882	562
Canada (d)	158,024	144,346	149,331	} 142,656	147,944	141,278	149,619
Newfoundland	24,816	20,788	19,745				
Burma	—	22	(e)	(e)	(e)	(e)	(e)
Hong Kong	—	—	—	—	—	—	378
India (g)	200	400	430	650	1,040	1,300	1,440
Australia	183,835	196,623	216,955	213,491	219,176	224,799	233,040
TOTAL	378,000	393,000	435,000	411,000	419,600	427,300	458,000
Irish Republic	(a)	(a)	(a)	150	369	1,188	1,100
FOREIGN COUNTRIES							
Austria	1,100	1,619	3,427	4,606	4,530	4,861	5,910
Finland	153	185	71	128	140	213	213
France	8,165	7,377	7,524	9,846	12,234	10,874	(g) 12,400
Germany (Federal)	15,275	15,693	24,087	40,298	44,230	49,581	50,782
Greece	433	921	1,284	1,154	(a)	2,722	3,116
Italy	13,700	23,600	30,000	34,418	37,841	38,126	38,014
Norway	26	139	261	296	224	407	406
Poland	(b) 10,743	(b) 12,559	(g) 17,000	(g) 17,000	(g) 20,000	(g) 20,000	(g) 21,000
Portugal	369	371	625	734	1,290	1,595	1,891
Roumania	3,173	3,440	(a)	(a)	(a)	(a)	(a)
Spain	(g) 37,200	29,963	26,860	30,597	38,833	40,167	42,435
Sweden	20,844	20,529	23,207	23,523	22,315	19,382	20,300
U.S.S.R. (smelter) (g) ..	83,000	105,000	107,000	135,000	170,000	210,000	245,000
Yugoslavia	43,000	51,000	55,000	71,000	84,676	77,506	77,721
Algeria	860	1,120	1,030	1,118	1,379	2,785	4,153
Belgian Congo	—	659	394	177	—	—	—
French Equatorial Africa ..	2,800	2,600	2,560	719	1,785	2,466	3,563
Morocco (French)	10,862	21,060	27,790	36,483	47,452	67,107	82,289
Morocco (Spanish) (f) ..	200	55	110	95	220	420	720
Tunis	8,518	12,224	13,011	14,700	18,961	20,910	22,902
Guatemala (b)	129	108	(a)	67	267	(a)	(a)
Honduras	(a)	(a)	125	391	275	446	530

- (a) Information not available.
- (b) Smelter.
- (c) Including ore sorted from dumps.
- (d) Amount estimated as recoverable.
- (e) Included under Foreign Countries.
- (f) Exports.
- (g) Estimated.

PRODUCTION OF LEAD ORE (Cont.)

Producing Country	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Mexico (b)	137,930	219,611	190,264	217,277	234,318	221,907	242,142
United States (b)	299,531	343,054	348,639	365,989	384,667	346,575	342,944
Argentina (estimated) (c) ..	18,000	20,000	21,000	18,000	23,000	23,600	17,800
Bolivia (exports)	8,301	11,131	25,205	25,895	30,684	30,076	29,539
Chile	(a)	3,311	6,125	2,814	669	(a)	(a)
Ecuador	366	170	265	372	221	(a)	112
Peru	43,815	53,948	47,771	64,325	63,888	81,049	85,516
Burma	(d)	(d)	35	(a)	1,098	5,815	3,861
Iran (estimated)	(a)	(a)	(a)	(a)	2,000	(a)	(a)
Japan	4,182	5,738	6,578	8,990	10,718	12,667	17,206
Korea (South)	—	886	256	141	130	130	130
Philippine Republic	4	7	71	541	865	562	2,264
Siam	(a)	(a)	(a)	180	680	1,300	1,089
Turkey	77	1,090	4,353	570	190	740	1,470
TOTAL	778,000	985,000	991,000	1,131,000	1,265,000	1,294,000	1,380,000
WORLD'S TOTAL	1,156,000	1,378,000	1,426,000	1,541,000	1,685,000	1,723,000	1,838,000

- (a) Information not available.
- (b) Amount estimated as recoverable.
- (c) American Bureau of Metal Statistics.
- (d) Included under British Countries.

METAL PRODUCTION OF LEAD

(Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom (b) ..	2,500	2,800	2,200	2,100	3,000	4,100	3,900
Northern Rhodesia ..	8,239	15,640	13,020	13,945	13,685	13,970	12,600
South West Africa ..	—	63	80	—	—	—	—
Canada	147,986	144,643	142,879	130,490	151,806	144,643	163,342
India	—	190	625	593	626	859	1,132
Australia (d)	149,747	187,985	189,662	184,374	198,593	198,774	197,326
TOTAL	307,800	351,400	348,500	331,500	367,700	362,300	378,300
FOREIGN COUNTRIES							
Austria (c)	4,405	3,511	9,201	9,426	10,738	10,971	10,240
Belgium (c)	21,239	39,526	62,507	77,580	61,113	69,530	74,232
Czechoslovakia	2,989	4,390	5,680	(a)	(a)	(a)	(a)
France	31,494	28,757	34,154	53,580	60,269	47,218	50,726
Germany (Federal) ..	(c) 17,916	(c) 23,971	(c) 48,602	53,689	65,567	74,862	91,218
Greece	1,109	1,569	3,419	4,019	3,324	5,261	4,356
Italy	13,789	17,266	25,327	28,011	36,877	35,431	34,379
Poland	10,743	12,559	16,607	(b) 17,100	(b) 20,000	(b) 20,000	(b) 21,000
Portugal	256	316	229	299	582	713	1,048
Roumania	3,173	3,440	(a)	(a)	(a)	(a)	(a)
Spain	29,195	31,617	21,708	32,499	39,928	44,005	41,089
Sweden	11,046	9,083	6,129	10,587	16,417	9,160	10,905
U.S.S.R. (b)	83,000	105,000	107,000	135,000	170,000	210,000	245,000
Yugoslavia	32,076	39,764	48,437	55,864	56,301	59,119	66,119
Morocco (French) ..	—	—	—	—	—	18,100	27,800
Tunis	7,370	12,391	17,675	19,190	23,164	22,544	25,107
Guatemala	129	108	(a)	67	267	(a)	(a)
Mexico	165,889	190,489	191,456	225,660	217,362	195,535	215,122
United States (e) ..	301,874	393,703	357,359	424,877	450,937	372,940	422,189
Argentina	20,682	21,071	21,139	17,752	18,700	23,700	19,600
Peru	37,484	32,961	34,187	36,650	31,451	43,655	47,801
Burma	—	—	7,400	846	—	148	1,812
China	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Japan	3,968	6,071	6,862	7,476	9,826	10,570	14,917
Korea (South)	—	196	295	98	(a)	(a)	(a)
TOTAL	800,000	977,000	1,030,000	1,220,000	1,302,000	1,281,000	1,433,000
WORLD'S TOTAL	1,108,000	1,328,000	1,378,000	1,552,000	1,670,000	1,643,000	1,811,000

(a) Information not available.

(b) Estimated.

(c) Including secondary metal.

(d) Includes lead in base bullion as follows:—

Year	Long tons
1946	12,288
1947	29,437
1948	30,165
1949	32,621

Year	Long tons
1950	37,021
1951	31,872
1952	37,709

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

Year	Long tons
1946	350,703
1947	457,116
1948	446,492
1949	368,021

Year	Long tons
1950	430,603
1951	462,598
1952	420,798

EXPORTS OF LEAD, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Ore	77	—	2	—	(a)	(a)	(a)
Pig-lead	814	438	714	770	448	1,126	9,385
Sheets and pipes	1,635	1,240	2,093	1,604	2,428	2,399	1,668
White lead	2,806	1,076	2,921	2,483	4,846	4,133	1,389
Litharge, red lead, etc.	5,239	2,675	5,684	3,276	6,067	4,802	3,304
Northern Rhodesia—							
Pig, bar and ingot	6,095	13,662	13,189	12,347	12,379	11,568	10,716
South West Africa—							
Copper-lead-vanadate ores and concentrates (f)	—	—	67,671	79,440	72,761	(g) 38,528	(g) 54,824
Pig-lead	—	—	80	—	—	—	(a)
Tanganyika—							
Concentrates (Pb content)	(a)	(a)	—	—	642	1,537	2,371
Union of South Africa—							
Ore	1	398	169	363	532	869	580
Pig, ingot and sheets	14	139	461	151	144	76	(a)
Canada (b)—							
Ore (Pb content)	5,363	6,005	5,006	17,760	17,210	17,543	21,399
Pig-lead, etc.	92,955	111,576	92,645	101,369	102,828	94,407	115,840
Scrap	(a)	(a)	(a)	1,702	1,602	1,269	4,655
Pipes and tubes	(a)	(a)	(a)	242	85	62	44
White lead	366	309	1,586	524	926	2,576	376
Newfoundland (c)—							
Concentrates	36,518	35,525	37,137	(c)	(c)	(c)	(c)
Burma—							
Pig-lead and refined lead	(d) 1,893	(a)	(a)	(a)	(a)	(a)	(a)
Hong Kong—							
Ore and concentrate	(a)	(a)	(a)	(a)	(a)	(a)	850
Crude and refined unwrought (incl. alloys) (h)	(a)	(a)	(a)	2,035	247	1,022	248
Scrap (h)	(a)	(a)	(a)	(a)	(a)	(a)	108
Bars, sheets, pipes etc. (h)	63	61	782	692	294	1,030	179
Malaya (including re-exports)—							
Pig-lead	67	2,435	1,844	732	1,602	1,111	266
Sheets and pipes	—	1	3	3	8	9	12
Australia—							
Ores and concentrates (Pb content)	(e) 8,965	(e) 18,554	(e) 16,416	5,615	7,926	14,490	22,758
Matte (Pb content)	150	2,001	49	2	1	—	—
Pig-lead	93,136	141,372	116,744	104,719	125,630	106,180	141,431
Base bullion	9,095	30,399	27,843	37,734	34,074	33,138	31,414
Scrap	(a)	286	4,646	2,536	39	2	35
Sheets and pipes	264	1,248	457	331	434	845	202
White lead	166	229	348	442	623	781	1,181
Irish Republic—							
Ore	155	100	207	371	502	1,573	2,762
Scrap	(a)	(a)	(a)	(a)	(a)	(a)	1,474
FOREIGN COUNTRIES							
Austria—							
Pig-lead, alloys etc.	(a)	(a)	(a)	2,913	2,291	1,614	2,362
Scrap	(a)	(a)	(a)	22	34	—	—
Red and white lead etc.	(a)	(a)	(a)	121	604	16	78

(a) Information not available.

(b) Including Newfoundland from April 1, 1949.

(c) Years ended March 31 following that stated. Included with Canada from April 1, 1949.

(d) February to September only.

(e) Years ended June 30 of year stated.

(f) For copper and vanadium contents see under appropriate headings. Also includes some zinc up to 1951.

(g) Pb content.

(h) Including re-exports.

EXPORTS OF LEAD, ETC. (Cont.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Belgium-Luxemburg E.U.—							
Pig-lead	(a)	(a)	43,703	47,427	44,887	46,756	59,490
Scrap	(a)	(a)	62	105	70	148	111
Sheets, bars, pipes and wire	(a)	(a)	4,230	3,453	6,796	7,913	3,513
Red and white lead, etc.	(a)	(a)	3,540	3,273	5,029	2,860	1,548
Bulgaria—							
Ore and concentrates ..	9,599	11,135	(a)	(a)	(a)	(a)	(a)
Czechoslovakia—							
Ore	—	617	(b) —	(a)	(a)	(a)	(a)
Pig-lead, ashes, scrap and alloys	5	69	(b) 303	(a)	(a)	(a)	(a)
Red and white lead, etc.	60	10	(b) —	(a)	(a)	(a)	(a)
Denmark—							
Pig-lead	518	1,026	2,604	2,978	5,205	5,640	7,026
Scrap	107	64	459	372	698	338	199
Sheets and pipes ..	—	26	8	9	13	59	9
France—							
Ore, matte and slag ..	1,047	1,615	114	1,338	2,211	753	235
Pig-lead, including argen- tiferous and antimonial	38	896	1,433	17,085	20,927	2,846	6,414
Scrap	429	—	40	158	40	22	10
Bars, sheets, alloys ..	289	383	657	1,374	887	1,378	1,172
Red and white lead, etc.	152	322	332	1,018	1,309	1,710	967
Germany (Federal)—							
Ore			1,639	886	10	—	—
Pig-lead, alloys and scrap	(a)	(a)	7	55,995	57,827	18,426	30,779
Sheets, pipes, wire, etc.			5	110	1,500	4,099	76
Red and white lead ..			5	2,072	6,944	10,436	5,799
Greece—							
Pig-lead	—	149	323	71	—	363	997
Italy—							
Ore	1,378	3,012	6,289	4,362	3,081	5,433	6,918
Pig-lead, scrap and alloys	994	217	24,551	3,002	692	1,041	870
Red and white lead ..	(a)	(a)	(a)	(a)	242	443	173
Netherlands—							
Pig-lead	1,444	545	1,421	1,816	1,512	1,907	2,986
Scrap	491	1,589	3,768	2,261	2,239	4,299	974
Sheets and wire	103	168	529	436	560	287	1,695
Red and white lead ..	27	166	105	380	742	698	695
Norway—							
Ore	—	196	420	544	395	804	522
Pig-lead	201	119	15	105	29	39	329
Scrap	608	930	1,598	549	755	741	1,085
Portugal—							
Ore	—	6	217	49	—	(a)	(a)
Pig-lead, etc.	4	60	15	—	28	23	2
Red and white lead ..	11	656	10	(a)	11	21	29
Spain—							
Ore	31	—	1	—	—	—	(a)
Pig-lead and scrap ..	1,374	5,247	8,601	2,815	12,631	15,913	11,889
Sheets, wire, etc. ..	192	352	424	403	582	1,115	(a)
Sweden—							
Ore	17,444	18,071	23,237	10,536	14,725	10,987	11,785
Pig-lead and scrap ..	1,674	1,713	546	1,696	3,757	662	1,583
Sheets and pipes	131	1	15	30	31	39	12
Red and white lead, etc.	115	40	133	207	111	99	128
Switzerland—							
Ores, etc.	14	17	162	176	648	839	662
Pig-lead, scrap, etc. ..	—	11	23	143	259	349	1,371
Sheets and pipes	—	154	13	25	2	12	1
Yugoslavia—							
Concentrates	(a)	(a)	(a)	(a)	5,869	—	492
Pig-lead	(a)	(a)	(a)	(a)	52,571	50,899	61,032

(a) Information not available.

(b) January to October only.

EXPORTS OF LEAD, ETC. (Cont.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952	
FOREIGN COUNTRIES (Cont.)								
Algeria—								
Ore	185	2,731	2,542	1,343	2,893	3,081	7,449	
Pig-lead	} 536	{ 163	95	232	72	65	13	
Scrap			1,147	1,324	1,194	1,442	2,670	1,251
Red and white lead ..			130	195	—	9	3	1
Belgian Congo—								
Ore	10	104	—	(a)	—	—	—	
French Equatorial Africa—								
Ore	1,292	13,726	10,012	5,285	3,740	3,937	5,905	
Morocco (French)—								
Ore, matte and slag ..	22,243	18,897	8,563	55,900	55,035	52,653	67,615	
Scrap, etc.	292	929	383	339	12,213	14,357	37,095	
Morocco (Spanish)—								
Ore	295	80	352	138	656	648	(a)	
Tunis (including re-exports)								
Ore	27	28	6	296	(a)	(a)	(a)	
Pig-lead and bars ..	6,337	9,793	13,705	18,600	23,043	22,273	24,425	
Mexico—								
Ores and concentrates ..	377	8,352	14,402	20,988	6,322	8,666	4,096	
Pig-lead, refined ..	125,585	170,771	211,982	179,957	248,333	163,854	198,537	
Base bullion	37	185	8,770	—	1	1	93	
Pig-lead, antimonial ..	1,919	5,689	11,009	5,874	8,819	11,729	3,678	
Pb content (b)	165,207	184,411	176,499	175,712	241,178	154,847	231,447	
United States—								
Ore, mattes and base bullion (Pb content) ..	89	—	8	1,443	119	498	746	
Pig-lead, bars etc. ..	533	1,351	356	866	2,442	1,144	1,573	
Scrap	—	—	—	667	1,407	530	67	
Sheets and pipes ..	867	1,680	849	690	316	972	1,150	
Red and white lead, etc.	3,969	2,555	2,018	2,766	2,657	2,134	2,093	
Argentina—								
Ore	—	(a)	(a)	(a)	(a)	(a)	(a)	
Ingots, bars and sheets	1	(a)	(a)	(a)	(a)	(a)	(a)	
Bolivia—								
Ore, etc. (Pb content) ..	8,301	11,131	25,205	25,895	30,684	30,076	29,539	
Chile—								
Ores and concentrates ..	—	10	—	(a)	(a)	(a)	(a)	
Ecuador—								
Concentrates	367	394	501	287	(a)	(a)	(a)	
Peru—								
Ore and concentrates (Pb content)	6,743	12,365	7,857	16,771	28,248	39,023	} 88,428	
Pig-lead (Pb content) ..	34,925	25,581	37,396	35,393	30,795	41,353		
Scrap (Pb content)	1,655	416	370	309	271	347		
Iran—								
Ore	(a)	(a)	837	504	(c) 3,500	(a)	(a)	
Japan—								
Refined lead	14,763	—	—	24	(a)	233	(a)	
Sheets and plates ..	} 10,826	4,922	(a)	(a)	{ 5,732	(a)	(a)	
Tubes						1,079	(a)	(a)
Philippine Republic—								
Ores and concentrates ..	(a)	(a)	(a)	(a)	1,023	516	(a)	
Scrap	(a)	(a)	(a)	(a)	340	310	(a)	
Siam—								
Ore	(a)	(a)	(a)	235	850	(a)	(a)	
Turkey—								
Ore	—	—	—	492	—	953	101	
Ingots	(a)	(a)	(a)	(a)	(a)	224	492	
Old and scrap	(a)	(a)	(a)	(a)	(a)	148	—	

(a) Information not available.

(b) Total metal content of all lead products including the above items and not additional.

(c) Estimated.

IMPORTS OF LEAD, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Ore and concentrates ..	56	107	219	64	(a)	(a)	(a)
Pig-lead	153,952	197,149	160,865	186,395	171,686	175,196	113,598
Scrap, incl. alloys ..	2,675	1,729	1,053	1,910	2,559	1,294	4,376
Sheets and pipes ..	—	1,270	373	—	—	3	6
Litharge, red lead, etc. . .	—	—	—	50	—	164	35
Anglo-Egyptian Sudan—							
Unwrought incl. scrap ..	13	8	7	16	(d) 1	(d) 72	(a)
White lead	55	145	—	1	—	—	(a)
Gold Coast—							
Bars, sheets, etc. ..	231	380	184	350	514	162	119
Kenya (e)—							
Bars, sheets, pipes, etc.	31	53	64	17	25	36	31
Mauritius—							
Pig-lead, sheets, pipes, etc.	(a)	3	(a)	23	28	13	17
Nigeria—							
Bars and sheets	27	156	84	169	135	153	40
Northern Rhodesia—							
Sheets and foil, etc. ..	1	1	5	31	59	30	16
White lead	1	—	—	—	5	11	5
Sierra Leone—							
Bars and sheets	3	6	7	5	16	8	6
Southern Rhodesia—							
Pig-lead, bars, sheets and foil	135	159	139	142	242	397	198
Red and white lead, etc.	38	90	204	71	28	52	42
South West Africa—							
Bars, sheets and pipes ..	4	17	16	28	17	11	(a)
Red and white lead, etc.	8	10	10	8	2	1	(a)
Tanganyika—							
Bars, sheets and pipes, etc.	4	3	7	8	8	3	24
Uganda—							
Bars, sheets, pipes, etc. . .	(f)	(f)	(f)	3	5	30	2
Union of South Africa—							
Pig-lead and bars	6,270	7,297	8,355	7,120	11,161	14,949	8,430
Sheets and pipes	54	26	21	104	40	67	(a)
Foil	(d) 10	3	1	2	1	2	(a)
Litharge, red and white lead	1,378	1,072	1,432	1,022	833	323	(a)
British West Indies—							
Jamaica—							
Pig-lead, etc.	(£228)	58	30	104	56	56	(a)
Trinidad and Tobago—							
Pig-lead	—	—	(d) 27	(d) 72	14	(a)	(a)
Red and white lead, etc.	125	75	140	475	61	99	61
Canada (b)—							
Pig-lead and scrap	34	8	68	2,317	1,257	(d) 78	433
Bars, sheets and pipes ..	7	7	4	6	17	2	3
White lead, red lead and litharge	1,126	349	253	304	727	594	587
Newfoundland (c)—							
Bars, pipes and sheets ..	106	103	39	(c)	(c)	(c)	(c)

(a) Information not available.

(b) Including Newfoundland from April 1, 1949.

(c) Years ended March 31 of year following that stated. Included with Canada from April 1, 1949.

(d) Excess of re-exports.

(e) Including Uganda up to 1948 inclusive.

(f) Included with Kenya.

IMPORTS OF LEAD, ETC. (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES (Cont.)							
Aden—							
Ore	1	11	—	—	—	—	—
Ceylon—							
Pig-lead	25	11	30	22	19	13	13
Sheets and pipes	152	7	23	6	33	25	9
Tea-lead	54	—	—	4	—	2	—
Cyprus—							
Sheets and pipes	19	26	6	10	18	122	34
Hong Kong (total imports)—							
Ore and concentrates	(a)	(a)	(a)	(a)	(a)	(a)	58
Crude and refined unwrought (incl. alloys).. .. .	(a)	(a)	(a)	674	226	375	52
Scrap							98
Bars, sheets, pipes, etc.	103	68	596	368	235	1,120	48
India—							
Ore	75	808	714	6	31	214	56
Pig-lead, bars, etc.	4,125	5,111	8,534	6,180	14,814	7,680	4,092
Sheets, pipes and tubes	554	742	101	430	207	177	191
Tea-lead	—	—	—	—	71	4	—
Lead (government stores)	944	—	—	(a)	(a)	(a)	(a)
Litharge, red and white lead, etc.	5	125	5	40	277	17	89
Malaya (total imports)—							
Pig-lead	232	3	35	198	43	142	279
Pipes and sheets	23	11	69	46	70	136	97
Pakistan (b)—							
Pig-lead, bars, etc.						132	416
Sheets, pipes and tubes	(a)	(a)	(a)	(a)	(a)	58	(a)
Litharge, red and white lead, etc.						85	275
Australia—							
Sheets and pipes, etc.	—	1	—	5	19	19	43
Litharge, red and white lead, etc. (c)	130	98	49	216	95	(d) 471	(d) 107
Fiji—							
Pig-lead and sheet	15	19	10	17	20	87	26
New Zealand—							
Pig-lead and bars	3,360	2,951	3,781	937	3,790	3,295	2,008
Sheets and pipes	84	159	105	63	123	34	48
White lead	444	102	206	675	2,777	2,341	274
Irish Republic—							
Pig-lead etc.	116	649	524	844	1,445	1,174	168
Sheets and pipes	166	770	1,423	587	687	1,103	330
Red and white lead	460	320	530	433	427	521	116
FOREIGN COUNTRIES							
Austria—							
Ore	(a)	3,543	3,366	2,835	2,953	2,933	4,473
Pig-lead, alloys, etc.	(a)	(a)	(a)	3,998	1,620	6,645	2,647
Scrap	(a)	(a)	(a)	257	218	31	15
Belgium-Luxemburg E.U.—							
Ore	28,625	71,319	87,547	97,499	81,754	96,761	125,128
Pig-lead	(a)	(a)	19,450	20,489	32,130	27,061	19,180
Antimonial lead	(a)	(a)	(a)	1,341	845	198	302
Scrap	(a)	(a)	3,402	10,930	3,158	7,423	1,641
Sheets, bars, pipes and wire	(a)	(a)	2	—	30	—	69
Red and white lead, etc.	(a)	(a)	238	442	898	765	526

(a) Information not available.

(b) Years ended March 31 following that stated. Included with India prior to 1948.

(c) Years ended June 30 of that stated.

(d) Calendar year.

IMPORTS OF LEAD, ETC. (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Bulgaria—							
Pig-lead and scrap ..	1	} (a)	(a)	(a)	(a)	(a)	(a)
Tubes, wire, etc. ..	—						
Red and white lead, etc.	9						
Czechoslovakia—							
Ore	—	3,620	(c) 3,471	(a)	(a)	(a)	(a)
Pig-lead, ashes, scrap and alloys	5,943	19,228	(c) 12,625	(a)	(a)	(a)	(a)
Sheets, plates, pipes, wire, etc.	—	79	(c) 13	(a)	(a)	(a)	(a)
Red and white lead, etc.	77	171	(c) 435	(a)	(a)	(a)	(a)
Denmark—							
Pig-lead	6,201	4,162	5,959	9,342	15,976	15,396	11,015
Scrap	1,630	1,119	3,387	1,361	1,736	3,853	3,322
Sheets, pipes and wire ..	199	93	31	61	28	54	152
Red and white lead ..	983	429	693	505	1,009	865	455
Finland (total imports)—							
Pig-lead	2,686	5,300	2,539	4,960	5,667	6,149	(a)
Scrap	—	—	1	—	—	219	(a)
Sheets, pipes, wire, etc.	127	732	464	432	631	1,110	(a)
Red and white lead, etc.	168	777	618	896	1,648	2,562	(a)
France—							
Ore (b)	42,088	69,975	51,908	27,436	43,414	49,593	49,351
Pig-lead, including argen- tiferous and antimonial	41,231	50,645	35,906	22,685	29,106	37,640	50,931
Scrap	1,110	2,166	3,520	1,706	1,448	3,484	2,349
Sheets, etc.	114	255	366	16	8	145	88
Red and white lead, etc.	168	1,096	1,865	476	754	3,866	2,305
Germany—							
Ore	} (a)	(a)	—	2,322	29,173	39,310	55,830
Pig-lead, scrap and alloys			881	1,327	3,791	7,077	6,687
Sheets, pipes, wire, etc.			297	32	2	—	1
Red and white lead, etc.			22	148	142	11	19
Iceland—							
Pig-lead	18	(a)	(a)	18	9	10	(a)
Red and white lead ..	23	(a)	(a)	5	14	43	(a)
Italy—							
Ore	—	—	53	574	1	2,321	—
Pig-lead, scrap and alloys	276	7,654	10,740	10,003	8,768	8,816	10,055
Netherlands—							
Ore	58	1,656	2,071	5,273	9,356	4,280	2,374
Pig-lead	20,953	26,000	20,130	36,904	29,221	25,342	21,252
Scrap	104	201	70	32	86	327	531
Sheets and wire	46	1,238	—	7	1,819	2,139	807
Red and white lead ..	1,292	3,021	4,095	5,714	6,591	4,490	2,450
Norway—							
Pig-lead	5,152	4,101	4,855	5,929	7,488	7,397	7,403
Bars and sheets	677	903	672	1,007	892	} 994	1,204
Tubes, wire, etc. ..	344	254	330	462	331		
Red and white lead ..	200	570	507	760	749	587	313
Portugal—							
Pig-lead, alloys, etc. ..	2,816	2,404	2,865	2,031	1,434	1,536	947
Red and white lead, etc.	662	596	462	(a)	162	201	187
Spain—							
Ore	295	206	8	—	549	10	(a)
Pig-lead and scrap ..	74	68	125	130	197	1,258	790
Sweden—							
Pig-lead	18,353	17,483	13,458	10,933	11,996	16,804	11,517
Scrap	334	635	247	389	420	79	231
Sheets and pipes	1,311	2,066	1,100	1,075	1,737	3,530	2,008
Red and white lead ..	2,102	2,349	2,478	1,782	4,235	2,906	1,410

(a) Information not available.

(b) Including matte and slag up to 1947 inclusive.

(c) January to October only.

IMPORTS OF LEAD, ETC. (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Switzerland—							
Ores, etc.	26	1	—	—	1	—	2
Pig-lead, scrap, etc. . .	21,015	13,681	14,976	16,082	19,299	14,376	9,669
Sheets, pipes, wire, etc. . .	640	650	369	302	668	604	378
Red and white lead	492	180	733	594	829	1,001	350
Algeria—							
Ore, matte and slags	22	228	27	29	24	24	37
Pig-lead	3,209	4,471	4,430	2,691	2,705	2,837	3,188
Scrap							
Red and white lead, etc. . .							
Egypt—							
Pig-lead and scrap	100	81	81	345	20	100	154
Sheets, pipes, wire, etc. . .	151	436	471	739	283	109	357
Red and white lead	514	45	482	398	547	274	430
Madagascar—							
Pig-lead, bars and sheets	16	21	104	(a)	(a)	(a)	(a)
Red and white lead	12	12	42	(a)	(a)	(a)	(a)
Morocco (French)—							
Pig-lead, sheets and wire	121	205	212	125	91	(a)	1
Mozambique—							
Bars, sheets and wire	14	33	21	40	38	90	(a)
Tunis—							
Ore, matte and slag	1,401	1,566	4,938	5,566	(a)	(a)	8,620
Pig-lead, bars and scrap	163	30	—	(a)	(a)	(a)	(a)
Sheets, etc.	74	—	284	(a)	(a)	(a)	(a)
Red and white lead, etc. . . .	—	—	1	(a)	(a)	(a)	(a)
Cuba (total imports)—							
Pig-lead	(a)	(a)	310	231	230	192	(a)
Sheets, pipes and wire	(a)	(a)	378	265	285	341	(a)
Mexico—							
Pig-lead	41	26	25	10	14	15	12
Sheets and pipes	37	449	210	105	65	122	158
Red and white lead	182	79	(a)	(a)	(a)	(a)	(a)
United States—							
Ore, matte and flue dust (Pb content)	25,785	42,540	30,273	109,179	86,206	29,155	98,529
Bullion and base bullion (Pb content)	72	1,584	9,785	1,014	1,196	41	2,635
Pig-lead and bars (Pb content)	92,931	141,703	218,648	243,248	387,826	159,729	455,998
Scrap (Pb content)	2,267	14,173	25,716	12,505	20,264	7,060	10,204
Sheets, pipes, wire, etc. . . .	21	60	161	158	185	228	10
Red and white lead, etc.	73	421	1,382	271	992	4,194	952
Argentina—							
Ore	4,742	(a)	(a)	(a)	(a)	(a)	(a)
Pig-lead	2						
Sheets and plates	—						
Tubes and wire	1						
Red and white lead	539						
Brazil (total imports)—							
Pig-lead	23,466	12,617	4,676	15,001	19,426	22,204	9,858
Sheets and pipes	343	464	204	376	(a)	464	134
Red and white lead	366	304	618	990	(a)	339	918
Chile—							
Pig-lead	1,928	1,822	1,163	998	1,499	886	422
Bars and sheets	250	(a)	(a)	(a)	(a)	(a)	(a)
Red and white lead	122	(a)	(a)	(a)	(a)	(a)	(a)
Colombia—							
Ingots, bars, tubes and alloys	373	(a)	(a)	448	773	(a)	(a)
Red and white lead	7	(a)	(a)	116	69	(a)	(a)

(a) Information not available.

IMPORTS OF LEAD, ETC. (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Peru—							
Pig-lead, sheets, etc. ..	22	(a)	(a)	22	(a)	(a)	(a)
Red and white lead ..	63	(a)	61]	142	204	126	101
Uruguay—							
Pig-lead	1,897	1,694	1,721	615	2,860	1,367	(a)
Red and white lead, etc.	(a)	(a)	405	272	303	199	(a)
Venezuela—							
Pig-lead	187	78	546	355	(a)	(a)	(a)
Red and white lead ..	75	84	95	80	(a)	(a)	(a)
China—							
Pig-lead	593	1,011	686	(a)	(a)	(a)	(a)
Scrap	685	(a)	(a)	(a)	(a)	(a)	(a)
Red and white lead, etc.	250	221	195	(a)	(a)	(a)	(a)
Iran (total imports) (b)—							
Ingots, sheets and wire	565	152	4	12	82	14	(a)
Israel—							
Pig-lead	} 145	(a)	(a)	105	201	(a)	(a)
Sheets and pipes ..		(a)	(a)	91	45	(a)	(a)
Red lead		(a)	(a)	166	90	(a)	(a)
Japan—							
Ore	(a)	503	(a)	(a)	35	510	19
Pig-lead	(a)	(a)	2,480	12,932	(a)	7,100	(a)
Syria and Lebanon—							
Ingots and sheets ..	215	} (a)	(a)	(a)	(a)	(a)	(a)
Pipes	51		(a)	(a)	(a)	(a)	(a)
Red and white lead ..	180		(a)	(a)	(a)	(a)	(a)
Turkey—							
Pig-lead and bars ..	1,350	886	623	684	2,038	320	1,696
Tubes and wire ..	47	136	23	95	200	119	638
Red and white lead ..	295	214	329	191	682	351	607

(a) Information not available.

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

LITHIUM MINERALS
PRODUCTION OF LITHIUM MINERALS
(Long tons)

Producing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Southern Rhodesia—							
Amblygonite	—	—	—	—	179	170	80
Lepidolite	—	—	—	—	—	1,567	1,101
Petalite	—	—	—	—	—	—	100
Spodumene	—	—	—	—	—	—	40
South West Africa—							
Amblygonite	—	30	157	116	261	516	637
Lepidolite	1,680	2,950	1,215	799	8,320	9,902	7,066
Petalite	—	100	160	120	161	155	1,048
Uganda—							
Amblygonite	—	—	—	200	265	19	—
Union of South Africa—							
Amblygonite	—	—	—	—	13	—	—
Australia—							
Petalite	—	—	—	5	—	—	—
FOREIGN COUNTRIES							
Portugal—							
Amblygonite	—	—	—	18	10	17	10
Lithium phyllite ..	—	—	—	—	6	49	—
Sweden—							
Spodumene	48	—	—	—	(a)	(a)	(a)
Mozambique—							
Lepidolite	—	—	—	590	218	275	(a)
United States (b)—							
Lithium minerals and compounds	2,737	2,179	3,465	4,320	8,309	11,515	13,938

(a) Information not available.
(b) Shipments.

EXPORTS OF LITHIUM MINERALS
(Domestic Produce)
(Long tons)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Southern Rhodesia—							
Lithium minerals ..	—	—	—	—	187	3,312	1,866
South West Africa—							
Amblygonite	—	—	—	245	85	94	459
Lepidolite	2,263	2,023	1,454	1,084	6,947	8,258	7,225
Petalite	—	50	163	4	230	284	1,255
Uganda—							
Amblygonite	—	—	—	200	265	19	—
FOREIGN COUNTRIES							
Belgian Congo—							
Spodumene	—	—	—	—	—	5	—
Portugal—							
Lithium minerals ..	(a)	(a)	(a)	(a)	(a)	(a)	27

(a) Information not available.
Imports of Lithium minerals are not recorded separately in the trade returns of any country.

MAGNESITE
PRODUCTION OF MAGNESITE
(Long tons)

Producing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Caustic (d)	—	—	—	—	—	2,500	7,478
Dead-burnt (d)	34,400	22,300	30,800	42,500	39,600	48,300	58,023
Kenya—							
Crude	60	40	—	10	178	—	—
Southern Rhodesia—							
Crude	3,763	5,238	5,632	7,519	8,479	14,580	10,779
Tanganyika—							
Crude	—	—	—	—	82	2,673	—
Union of South Africa—							
Crude	6,893	8,282	10,492	10,321	11,596	18,477	24,023
Canada—							
Calcined Magnesitic Dolomite (b)	£289,055	£289,723	£393,972	£408,843	£565,092	£826,364	£1,067,499
Cyprus (exports)—							
Crude	3	30	1	20	20	20	20
India—							
Crude	44,677	51,536	48,327	90,564	52,859	117,466	89,041
Australia—							
Crude	22,033	36,811	32,442	33,590	35,392	38,134	42,137
New Zealand—							
Crude	374	362	540	559	341	580	579
FOREIGN COUNTRIES							
Austria—							
Crude	95,744	219,622	405,126	519,444	542,065	654,339	729,876
Caustic (c)	20,008	31,044	52,536	76,784	73,385	76,468	69,481
Dead-burnt (c)	33,807	94,379	131,337	176,576	179,588	211,813	244,595
Bricks (c)	26,727	56,859	110,644	107,315	110,054	132,697	160,776
Germany (Federal)	(a)	(a)	(a)	(a)	1,290	(a)	(a)
Greece—							
Crude	715	21,447	11,021	16,820	25,841	59,917	78,137
Calcined (c)	—	7,987	2,837	1,996	9,435	25,656	26,339
Italy—							
Crude	603	1,644	986	723	270	385	(a)
Norway—							
Crude	1,155	1,683	1,712	1,090	1,821	1,430	1,003
Calcined (c)	458	647	979	528	844	480	575
Bricks (c)	331	209	170	219	64	200	146
Spain	10,594	5,309	9,741	6,585	7,511	13,516	14,893
Yugoslavia—							
Crude	40,000	15,000	51,000	86,000	58,333	88,495	37,185
Mexico (exports)—							
Crude and calcined	4,545	—	—	—	—	—	55
United States—							
Crude	289,860	335,708	(a)	256,531	383,386	598,363	456,027
Caustic (sales) (c)	40,338	23,956	29,651	29,022	37,006	44,626	33,698
Dead-burnt (sales) (c)	218,595	281,179	294,704	223,562	299,500	385,890	345,422
Venezuela—							
Crude	2,707	2,933	1,870	—	1,379	—	—
Turkey	98	846	3,353	6,269	443	497	878

Magnesite is also produced in Czechoslovakia, the U.S.S.R., Korea and Manchuria.

(a) Information not available.

(b) Including brucite.

(c) Derived from crude shown, and not additional. The United States also includes some from other sources, e.g., sea-water, brucite, dolomite, etc.

(d) Magnesia extracted from sea-water.

EXPORTS OF MAGNESITE, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Magnesium and alloys ..	371	104	277	1,126	387	420	703
Magnesium compounds	9,663	8,834	9,947	8,572	10,469	13,415	12,111
Southern Rhodesia—							
Crude and calcined ..	4,444	4,973	5,552	3,742	2,964	11,668	13,089
Tanganyika—							
Magnesite	—	—	—	—	82	2,651	—
Union of South Africa—							
Crude and calcined ..	—	54	—	—	255	304	—
Canada—							
Basic refractory materials	2,234	4,346	3,890	1,819	2,323	4,377	2,643
Cyprus—							
Crude	3	30	1	20	20	20	20
India—							
Magnesite	6,662	17,025	14,171	37,099	17,047	49,085	41,279
Chloride	1,921	3,928	2,167	2,905	1,653	1,986	1,650
Australia—							
Crude and calcined ..	—	39	354	—	36	64	91
Sulphate	(b) 607	(b) 449	(b) 387	317	155	113	190
FOREIGN COUNTRIES							
Austria—							
Crude	(a)	133	—	78	214	420	984
Caustic		7,817	15,037	32,944	48,490	61,452	59,399
Dead-burnt		30,332	53,379	78,693	69,242	82,417	80,316
Bricks		44,799	67,490	88,157	93,906	103,156	134,992
Belgium-Luxemburg E.U.—							
Crude	(a)	(a)	1,040	162	379	431	39
Calcined			2	24	263	20	20
Carbonate			14	7	2	1	—
Chloride			11	137	18	57	36
Sulphate			144	117	203	214	38
Czechoslovakia—							
Crude	232	—	(c) —	(a)	(a)	(a)	(a)
Calcined	8,086	29,894	(c) 32,038	(a)	(a)	(a)	(a)
Bricks	2,843	8,625	(c) 12,784	(a)	(a)	(a)	(a)
Chloride, oxide and sulphate	—	10	(c) —	(a)	(a)	(a)	(a)
France—							
Crude and calcined ..	(a)	(a)	66	106	258	170	208
Magnesium and alloys	10	6	2	95	735	636	172
Magnesium compounds	5,110	10,044	10,602	4,303	8,773	9,381	4,678
Germany—							
Crude and calcined ..	(a)	(a)	15	20	108	260	357
Carbonate, oxide, etc. ..			—	36	428	356	112
Chloride			774	8,436	12,050	16,047	10,801
Sulphate			4,321	18,570	17,177	22,297	19,122
Greece—							
Crude	—	42	2,473	787	1,977	18,368	16,616
Caustic	—	3,051	298	78	4,443	22,378	22,593
Dead-burnt	—	310	—	—	—	—	—
Italy—							
Magnesium metal ..	—	170	111	171	(a)	3,888	1,904
Crude	(a)	6	282	14	3	39	1
Caustic	(a)	66	67	129	118	87	63
Carbonate	(a)	47	166	65	66	109	70
Netherlands—							
Calcined	2,229	7,334	9,456	7,475	18,898	17,077	15,917
Sulphate	(a)	(a)	(a)	(a)	921	551	828

(a) Information not available.
 (b) Years ended June 30 of that stated.
 (c) January to October only.

EXPORTS OF MAGNESITE, ETC. (Cont.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Norway—							
Crude	9	26	—	38	—	30	20
Bricks	274	158	165	149	83	170	119
Sweden—							
Crude and calcined ..	45	72	46	28	10	—	—
Yugoslavia—							
Crude	(a)	(a)	(a)	(a)	661	16,283	814
Ground and dead-burnt	(a)	(a)	(a)	(a)	15,820	18,781	13,560
Mexico—							
Crude and calcined ..	4,545	—	—	—	—	—	55
United States—							
Magnesium metal (b) ..	185	281	245	386	523	513	952
Oxide and manufactures	15,225	(a)	(a)	(a)	(a)	(a)	(a)
Bricks, etc.	11,832	11,538	8,943	(a)	(a)	(a)	(a)
Brazil	(a)	(a)	(a)	(a)	955	3,100	4,570
Peru—							
Sulphate	427	423	373	482	595	325	(a)
Turkey—							
Crude	—	—	1,966	3,149	591	11	12
Calcined	—	—	—	321	—	—	—

(a) Information not available.

(b) Including alloys and scrap.

IMPORTS OF MAGNESITE, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952				
BRITISH COUNTRIES											
United Kingdom—											
Crude and calcined ..	1,427	28,961	34,599	28,563	21,648	22,967	21,601				
Magnesium and alloys ..	—	—	—	87	(a)	(a)	(a)				
Chloride	898	3,368	7,068	8,738	5,868	8,401	6,070				
Other salts	6	(d) 8	461	(d) 1	369	2,045	2,691				
Union of South Africa—											
Carbonate and sulphate	3,817	4,644	4,998	3,273	3,323	10,555	(a)				
Chloride	233	143	294	186	227	266	(a)				
Canada—											
Calcined and dead-burnt	4,429	8,338	6,887	4,182	5,337	5,821	9,177				
Carbonate	331	488	620	882	1,498	1,051	261				
Sulphate	3,092	2,596	2,497	2,485	2,494	2,737	1,952				
Bricks	(£102,200)	(£115,395)	(£107,052)	(£129,434)	(£136,294)	(£167,124)	(£240,674)				
Other salts	616	378	440	383	549	853	1,200				
Hong Kong—											
Magnesite	(a)	(a)	(a)	(a)	(a)	(a)	15				
India—											
Chloride	—	2	1	1	—	—	—				
Sulphate	27	61	1	2	—	1	—				
Other salts	781	300	503	621	252	776	601				
Pakistan (c)—											
Chloride	} (a)	(a)	(a)	(a)	(a)	} 60	43				
Sulphate							911				
Other salts							67	21			
Palestine—											
Sulphate	184	(a)	(a)	(a)	(a)	(a)	(a)				
Australia—											
Crude and calcined ..	(b) 28	(b) 32	(b) 93	77	844	530	772				
Oxide	33	22	66	71	86	81	53				
Carbonate	149	152	307	169	228	237	202				
Chloride	21	139	207	149	94	444	168				
Sulphate	300	905	108	103	445	330	484				
New Zealand—											
Magnesite	(a)	(a)	(a)	(a)	44	44	(a)				
Sulphate	369	414	328	290	274	423	385				
Other salts	(a)	(a)	(a)	(a)	162	327	(a)				
Irish Republic—											
Magnesium salts ..	447	400	348	353	507	523	456				
FOREIGN COUNTRIES											
Austria—											
Sulphate	(a)	3,774	7,457	5,197	6,077	7,941	5,023				
Chloride	(a)	223	1,307	2,007	2,492	3,030	1,380				
Belgium-Luxemburg E.U.—											
Crude	} (a)	} (a)	} 1,893	} 1,845	} 3,085	} 297	} 342				
Calcined								1,410			
Bricks								—	8,818	10,433	12,621
Magnesium								43	163	181	110
Carbonate								276	144	412	354
Chloride								478	466	652	575
Sulphate	1,457	1,748	1,697	1,772							
Bulgaria—											
Crude	4	(a)	(a)	(a)	(a)	(a)	(a)				
Sulphate	28	(a)	(a)	(a)	(a)	(a)	(a)				
Czechoslovakia—											
Calcined	437	1,232	(c) 757	(a)	(a)	(a)	(a)				
Bricks	311	6,601	(c) 2,437	(a)	(a)	(a)	(a)				
Chloride	255	1,538	(c) 1,461	(a)	(a)	(a)	(a)				
Oxide, impure	60	178	(c) 471	(a)	(a)	(a)	(a)				
Sulphate	65	1,587	(c) —	(a)	(a)	(a)	(a)				

(a) Information not available.

(b) Year ended June 30 of that stated.

(c) Years ended March 31 following that stated. Included with India prior to 1948.

(c) January to October only.

(d) Excess of re-exports.

IMPORTS OF MAGNESITE, ETC. (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Denmark—							
Crude	1,134	2,123	2,662	1,311	1,592	1,818	1,546
Chloride	972	1,859	1,857	382	994	1,339	993
Oxide	172	212	444	334	358	515	81
Sulphate	379	293	447	427	521	416	498
Finland (total imports)—							
Crude and calcined	701	695	1,357	955	1,475	1,189	(a)
Oxide	27	23	12	13	15	68	(a)
Carbonate	46	96	162	298	72	292	(a)
Chloride	317	539	678	767	1,300	1,207	(a)
Sulphate	36	109	77	26	144	246	(a)
France—							
Crude	2,018	2,987	1,403	1,222	1,646	3,499	3,990
Calcined	1,989	13,269	17,306	16,923	11,843	16,187	17,525
Magnesium and alloys	55	34	15	—	—	82	138
Carbonate	263	578	303	194	329	494	252
Chloride	1	46	1	—	22	232	94
Sulphate	474	—	—	—	520	1,115	1,165
Germany (Federal)—							
Crude and calcined	(a)	(a)	28,464	48,644	86,820	109,316	130,994
Magnesium crude and scrap	(a)	(a)	(a)	(a)	(a)	461	2,385
Hungary—							
Crude and calcined	4,425	13,458	(a)	(a)	(a)	(a)	(a)
Italy—							
Magnesium metal	—	47	23	25	(a)	28	76
Crude	(a)	2,064	1,971	822	1,306	5,385	3,596
Caustic	(a)	4,017	5,185	7,748	10,689	10,541	13,606
Chloride	(a)	(a)	—	2,181	980	867	1,376
Sulphate	(a)	(a)	500	904	2,367	2,536	3,190
Netherlands—							
Crude	302	1,183	558	418	819	983	219
Calcined	4,306	15,142	10,140	12,981	21,406	18,600	19,044
Magnesium metal	(a)	(a)	6	26	84	53	98
Sulphate	597	757	1,775	5,094	7,860	5,899	3,518
Chloride	(a)	(a)	4,254	3,650	3,778	3,653	2,692
Norway—							
Calcined	568	1,278	2,058	1,110	783	1,013	649
Bricks	—	—	—	—	—	(a)	(a)
Chloride	809	562	919	869	3,390	3,501	1,326
Portugal—							
Crude and calcined	104	89	87	170	55	129	184
Carbonate	75	68	163	74	63	102	39
Chloride	27	32	50	49	44	72	69
Oxide	5	12	5	13	8	309	334
Sulphate	1,018	443	804	698	729	1,098	769
Sweden—							
Crude and calcined	3,174	2,727	2,720	2,616	2,212	2,080	2,172
Bricks	8,260	7,508	10,402	11,192	11,364	11,260	12,140
Chloride	1,359	1,493	1,729	1,673	1,579	1,550	982
Yugoslavia—							
Calcined and ground	(a)	(a)	(a)	(a)	7,273	7,149	6,276
Bricks	(a)	(a)	(a)	(a)	4,460	1,681	4,793
Algeria—							
Calcined	2	2	6	13	9	8	24
Belgian Congo—							
Calcined	128	571	(a)	(a)	470	417	892
Sulphate	820	628	(a)	(a)	732	547	449
Chloride	—	1	(a)	(a)	106	2	1
Egypt—							
Sulphate	888	343	393	447	618	1,049	120
Cuba (total imports)—							
Calcined	(a)	(a)	7	78	77	147	(a)
Carbonate	(a)	(a)	103	36	144	107	(a)

(a) Information not available.

IMPORTS OF MAGNESITE, ETC. (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Mexico—							
Crude	1,759	2,740	2,285	3,778	4,063	3,402	6,032
Calcined	23	15	(a)	(a)	(a)	31	62
Magnesium metal	198	243	226	314	376	326	373
Sulphate	164	219	(a)	(a)	(a)	50	43
United States—							
Crude	1	—	86	—	8	—	13
Calcined	394	470	823	1,324	1,898	3,743	1,803
Dead-burnt	1,673	1,560	2,716	2,206	12,607	25,701	21,847
Bricks	165	526	827	1,612	2,745	4,033	5,236
Magnesium metal, etc.	215	180	605	2,286	753	3,456	225
Oxide	45	—	—	—	—	—	6
Carbonate, precipitated	129	122	252	171	209	173	163
Chloride	34	2	5	5	7	2	1
Sulphate (incl. Kieserite)	—	—	—	409	3,187	2,631	5,450
Argentina—							
Carbonate	149	} (a)	(a)	(a)	(a)	(a)	(a)
Chloride	102						
Oxide	8						
Sulphate and chlorate ..	20						
Brazil (total imports)—							
Oxide	38	55	209	134	(a)	27	32
Sulphate	198	401	147	44	(a)	170	1,032
Chile—							
Crude	16	} (a)	(a)	(a)	(a)	(a)	(a)
Calcined	1,005						
Chloride	8						
Carbonate, oxide, etc. ..	7						
Sulphate	500						
Colombia—							
Calcined	36	} (a)	(a)	(a)	(a)	(a)	(a)
Carbonate	4						
Chloride	4						
Sulphate	71						
Peru—							
Oxide and carbonate ..	412	(a)	53	25	29	30	19
Salts	30	(a)	(a)	46	(a)	(a)	(a)
Venezuela—							
Sulphate	119	114	112	136	(a)	(a)	(a)
Japan—							
Crude and calcined ..	4,023	4,024	21,726	76,355	19,040	99,479	(a)
Syria and Lebanon—							
Ground and calcined ..	—	} (a)	(a)	(a)	(a)	(a)	(a)
Chloride	10						
Oxide	4						
Sulphate	194						
Turkey—							
Calcined	—	—	5	12	29	—	—
Carbonate, chloride, etc.	31	26	170	123	209	131	196
Oxide	5	11	6	4	21	11	16
Sulphate	9	90	30	43	197	155	219

(a) Information not available.

MANGANESE
PRODUCTION OF MANGANESE ORE
(Long tons)

Producing Country	Estimated Manganese Content													
	1946	1947	1948	1949	1950	1951	1952	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES														
Gold Coast (exports) ..	765,300	588,919	629,973	741,069	711,366	806,080	794,192	398,000	306,000	328,000	380,000	370,000	420,000	410,000
Northern Rhodesia ..	1,398	—	3,898	3,975	1,723	1,260	3,926	(a)	(a)	(a)	(a)	231	528	1,380
Southern Rhodesia ..	—	—	—	164	—	—	1,411	—	—	(a)	(a)	—	—	(a)
South West Africa ..	—	—	—	—	978	6,456	26,088	—	—	119,000	265,000	318,000	3,100	12,500
Union of South Africa ..	234,141	283,662	272,029	644,831	778,449	746,888	860,828	102,000	123,000	(a)	(a)	(a)	304,000	360,000
Canada (sales) ..	—	201	3	—	—	—	—	124,000	221,000	(a)	317,000	433,000	633,000	716,000
India ..	252,916	451,035	525,876	645,825	882,979	1,292,375	1,462,264	(a)	(a)	(a)	(a)	(a)	4,600	3,300
Australia ..	1,385	1,776	3,447	13,087	14,869	7,969	7,069	197	162	(a)	(a)	(a)	(a)	(a)
New Zealand ..	402	350	206	305	352	402	319	(a)	(a)	(a)	(a)	(a)	20	(a)
Papua ..	44	116	(c)	(c)	22	40	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Fiji (exports) ..	—	5	70	100	240	631	2,010	—	(a)	(a)	(a)	(a)	(a)	(a)
TOTAL	1,256,000	1,326,000	1,436,000	2,038,000	2,391,000	2,862,000	3,158,000							
FOREIGN COUNTRIES														
France ..	1,737	871	670	2,194	(a)	(a)	(a)	253	132	79	164	(a)	(a)	(a)
Greece ..	15	—	886	148	315	15,930	19,336	(a)	(a)	(a)	(a)	(a)	6,400	7,700
Hungary (d) ..	14,500	32,900	40,000	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Italy ..	7,794	26,992	24,299	23,836	19,127	28,106	39,714	2,000	6,300	7,000	7,400	5,100	8,000	11,000
Portugal ..	5,831	2,405	237	516	758	8,270	10,904	2,450	970	90	170	200	2,200	2,900
Roumania (d) ..	18,510	(a)	46,000	64,000	24,000	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Spain ..	29,125	22,074	18,232	18,356	18,702	21,566	28,829	11,600	8,800	8,000	7,700	8,000	8,600	11,500
Sweden ..	13,082	11,164	8,936	15,856	11,660	17,267	18,579	2,309	1,920	1,287	2,401	1,845	2,806	(a)
U.S.S.R. (estimated) ..	2,500,000	2,500,000	2,800,000	3,000,000	3,000,000	3,000,000	3,000,000	2,400	(a)	4,300	(a)	(a)	(a)	(a)
Yugoslavia ..	7,400	12,500	12,593	13,618	13,127	12,665	12,487	800	4,100	4,300	(a)	(a)	(a)	(a)
Angola ..	1,870	690	394	18,300	9,161	45,462	54,224	—	300	200	9,500	4,580	21,800	26,000
Belgian Congo ..	—	8,384	12,563	12,054	16,722	69,825	125,957	—	4,200	6,300	6,027	8,400	34,900	63,000
Egypt (b) ..	—	29	56,973	136,380	149,766	152,910	205,861	—	9	17,700	41,000	45,000	51,000	62,000

(a) Information not available.

(b) Ore containing 30% Mn and 10% Fe.

(c) Years ended June 30 of year following that stated.

(d) U.S. Bureau of Mines.

PRODUCTION OF MANGANESE ORE (Cont.)

Producing Country	Estimated Manganese Content						1952	1951	1950	1949	1948	1947	1946	1952	1951	1950	1949	1948	1947	1946	
	1946	1947	1948	1949	1950	1951															
FOREIGN COUNTRIES (Cont.)																					
Morocco (French)							419,583	366,354	282,828	230,132	211,026	107,688	57,074								
Morocco (Spanish)						3,577	1,104	50	643	500											
Tunis		25																			
Cuba (b)	128,048	47,909	28,613	61,516	77,205	247,702	142,799	77,205	53,465	50,300	28,613	47,909	128,048								
Mexico	26,000	33,000	50,300	53,465	34,725	140,538	77,939	34,725	112,621	117,054	50,300	33,000	26,000								
United States (c)	128,246	117,524	117,054	112,621	120,046	103,836	85,042	120,046													
Argentina	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)								
Brazil	169,543	166,237	161,412	227,000	193,000	200,327	200,327	193,000	28,414	20,174	161,412	166,237	169,543								
Chile	20,125	20,015	20,174	28,414	(e) 33,000	(a) 36,000	(e) 36,000	(e) 33,000													
Peru					750	931	931	750													
Burma	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)													
Japan	32,204	33,929	55,468	104,354	136,876	182,091	182,091	136,876													
Korea (South)																					
Philippine Republic	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)													
Portuguese India	(a)	3,270	25,161	25,873	29,395	21,990	21,990	29,395													
Turkey	(a)	(a)	6,400	15,964	21,644	84,073	84,073	21,644													
New Caledonia	1,675	4,560	8,195	24,607	31,670	49,719	49,719	31,670													
	(a)	(a)	(a)	2,070	5,307	19,817	19,817	5,307													
TOTAL	3,150,000	3,190,000	3,700,000	4,200,000	4,300,000	4,740,000	4,740,000	4,300,000													
World's Total	4,400,000	4,520,000	5,140,000	6,240,000	6,700,000	7,600,000	7,600,000	6,700,000													

Manganese ore is also produced in China and Iran.

(a) Information not available.

(b) Concentrates.

(c) Shipments. Excluding the following quantities of ore containing 10 to 35% Mn, which are included with iron ore (long tons):—1946—89,654; 1947—114,788; 1948—126,823; 1949—23,361; 1950—102,919; 1951—94,824; 1952—94,917.

(d) Exports.

(e) Estimated.

EXPORTS OF MANGANESE ORE, ETC.
(Domestic Produce)
(Long tons)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952	195
<i>1632</i>								
<i>BRITISH DOMAINS</i>								
United Kingdom—								
Metal	200	191	593	298	386	65	201	
Ferro-manganese and spiegeleisen	58,636	9,069	3,236	9,267	2,530	1,437	1,785	
Gold Coast—								
Ore	765,300	588,919	629,973	741,069	711,366	806,080	794,192	
South West Africa—								
Ore	—	—	—	—	—	3,604	24,169	
Union of South Africa—								
Ore	316,351	334,695	319,442	677,813	685,137	574,362	578,854	
Canada—								
Spiegeleisen	792	747	645	500	316	—	—	
Ferro-manganese	29,005	65,554	66,517	31,507	23,724	60,275	27,937	
Hong Kong (re-exports)—								
Ore	15	—	28	12,585	1,015	—	239	
India—								
Ore (b)	479,447	597,677	363,482	613,907	919,895	1,106,953	1,462,224	
Ferruginous manganese ore	(a)	(a)	(a)	(a)	(a)	4,222	20,200	
Ferro-manganese	10,900	—	—	—	—	—	—	
Malaya (c)—								
Ore	(a)	—	—	5	71	193	—	
Australia—								
Ore	87	5	5	—	6	—	110	
Fiji—								
Ore	—	5	70	100	240	631	2,010	
New Zealand—								
Ore	410	—	488	110	—	—	—	
Papua (c)—								
Ore	(a)	(a)	(a)	160	59	21	—	
FOREIGN COUNTRIES								
France—								
Ore	799	421	861	1,960	2,918	2,335	1,517	
Manganese dioxide	—	31	19	23	111	45	436	
Ferro-manganese	334	951	102	172	34,378	28,846	18,287	
Germany (Federal)—								
Ore	(a)	(a)	—	138	103	160	80	
Ferro-manganese	(a)	(a)	—	36	510	(d) 212	(a)	
Greece—								
Ore	—	—	—	—	329	14,154	18,538	
Italy—								
Ore, including mangani-ferrous iron ore	—	—	1	72	5	49	78	
Ferro-manganese	—	—	—	597	285	466	694	
Netherlands—								
Ore	233	839	2,134	2,022	2,394	2,319	4,888	
Norway—								
Ferro-manganese	13,178	31,761	58,133	52,879	82,178	79,161	83,488	
Ferro-silico-manganese	2,258	3,817	9,411	8,022	19,182	22,482	17,797	
Portugal—								
Ore	1,415	3,231	146	2,460	2,370	10,370	4,073	
Spain—								
Ore	—	—	104	103	—	6	(a)	

(a) Information not available.

(b) Including manganese ore mined in India but exported via the Portugese port of Mormugao as follows :—
1946, 44,847 tons; 1947, 58,220 tons; 1948, 33,355 tons; 1949, 70,864 tons; 1950, 79,941 tons;
1951, 90,465 tons; 1952, 53,062 tons.

(c) Including re-exports.

(d) January to September only.

(e) Years ended June 30 of that stated.

EXPORTS OF MANGANESE ORE, ETC. (Cont.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Sweden—							
Ore	296	509	335	555	921	584	497
Ferro-manganese	287	1,326	117	725	981	369	365
Spiegeleisen	107	114	—	—	—	—	92
Ferro-silico-manganese	48	53	20	203	878	220	82
U.S.S.R.—							
Ore	(b)	(b)	(b)	(b)	(b)	(b)	(b)
Angola—							
Ore	—	—	2,657	8,670	12,797	(a)	(a)
Belgian Congo—							
Ore	14,482	10,947	15,601	16,717	13,866	64,685	125,415
Egypt—							
Ore	—	(a)	92,426	127,298	105,282	236,410	190,000
Morocco (French)—							
Ore	62,103	95,468	205,010	221,250	263,048	352,729	360,279
Morocco (Spanish)—							
Ore	(a)	(a)	13	643	36	10	(a)
Tunis—							
Ore	—	241	—	—	—	—	—
Cuba—							
Ore	140,619	(a)	29,479	57,323	85,008	149,294	231,222
Mexico—							
Ore	23,021	53,691	56,461	51,851	35,433	86,749	149,716
Mn content	11,163	13,958	23,635	23,396	14,247	28,059	44,322
United States—							
Ore	10,004	7,164	8,245	4,495	8,002	7,170	8,704
Ferro-manganese and spiegeleisen	9,342	18,280	17,630	5,917	841	641	1,327
Brazil—							
Ore	149,793	139,848	139,022	147,529	145,996	118,006	158,852
Chile—							
Ore	166,374	26,208	17,283	10,137	18,700	20,668	33,660
Peru—							
Ore (Mn content)	8	—	—	—	299	442	1,400
China—							
Ore	2	—	395	(a)	(a)	(a)	(a)
Indonesia—							
Ore	1,065	2,579	1,486	984	3,248	(a)	(a)
Japan—							
Ore	(a)	(a)	(a)	(a)	101	79	1,673
Ferro-manganese	(a)	(a)	(a)	(a)	2,496	(a)	(a)
Silico-manganese	(a)	(a)	(a)	(a)	451	(a)	(a)
Philippine Republic—							
Ore	(a)	3,700	41,409	21,966	29,799	22,729	20,301
Portuguese India—							
Ore	—	99	4,689	11,005	21,644	63,399	137,463
Turkey—							
Ore	—	30	—	7,517	18,254	45,473	79,208
New Caledonia—							
Ore	—	—	—	2,302	1,813	20,917	17,037

(a) Information not available.

(b) The following countries record an import of ore from U.S.S.R. (long tons) :—

	1946	1947	1948	1949	1950	1951	1952
Netherlands	(a)	(a)	517	(a)	—	1,968	—
Norway	—	9,881	4,904	15,181	30,158	(a)	(a)
Sweden	—	—	5,890	11,902	4,923	20,076	(a)
United States (total imports)	216,000	295,541	381,455	179,829	58,539	2,309	—

IMPORTS OF MANGANESE ORE, ETC
(Less Re-exports)
(Long tons)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Ore	200,078	315,377	449,922	470,575	401,628	381,148	430,576
Metal	—	—	—	6	40	86	59
Ferro-manganese and spiegeleisen	150	1,685	—	—	485	1,167	718
Silico-manganese	7,325	9,014	11,057	9,100	10,464	12,568	12,322
Union of South Africa—							
Ferro-manganese	5	1	29	83	18	39	(a)
Manganese dioxide	565	951	572	744	613	1,074	(a)
Canada—							
Ore	128,592	199,556	205,623	123,084	121,158	198,287	173,576
Ferro-manganese	1,007	487	484	1,327	908	261	1,454
Silico-manganese	197	3	53	18	73	302	136
Hong Kong (total imports)							
Ore	99	90	107	7,574	342	267	24
Malaya (total imports)—							
Ore	(a)	45	528	180	—	170	1
Australia—							
Ore	1,376	1,413	8,138	21,808	15,058	2,830	65
Ferro-manganese	739	144	64	709	339	80	56
FOREIGN COUNTRIES							
Austria—							
Ore	(a)	—	8,346	13,571	7,307	24,501	19,725
Belgium-Luxemburg E.U.—							
Ore	58,117	78,737	(a)	161,295	45,102	111,874	124,575
Ferro-manganese	(a)	(a)	(a)	52,667	47,136	78,626	81,421
Czechoslovakia—							
Ore	4,042	7,783	(b) 70,448	(a)	(a)	(a)	(a)
Denmark—							
Ore	1,135	257	896	460	1,560	2,771	966
Finland (total imports)—							
Ferro-manganese and spiegeleisen	904	1,197	1,618	1,030	696	1,637	(a)
Manganese dioxide	30	121	419	181	85	350	(a)
France—							
Ore	88,416	161,176	233,937	267,065	335,173	424,438	398,044
Ferro-manganese	11,930	11,905	244	148	102	153	379
Manganese dioxide	—	5,943	—	5	36	3	—
Germany (Federal)—							
Ore	(a)	(a)	2,759	60,624	147,677	260,978	177,512
Ferro-manganese	(a)	(a)	2,365	3,427	1,369	(c) 2,090	(a)
Italy—							
Ore, including mangani- ferous iron ore	7,135	40,840	49,789	46,688	21,851	54,491	97,807
Spiegeleisen	—	197	58	—	1,537	3,329	4,064
Ferro-manganese	1,066	199	4,719	2,939	1,696	219	19
Ferro-silico-manganese	—	—	101	660	—	—	(a)
Netherlands—							
Ore	3,040	18,249	5,052	17,724	8,714	6,819	32,904
Norway—							
Ore	47,294	102,706	132,038	164,083	160,001	198,440	249,165
Spain—							
Ore	855	3,693	—	3,335	2,274	6,233	(a)
Ferro-manganese	1	11	36	2	3,476	866	(a)

(a) Information not available.

(b) January to October only.

(c) January to September only.

IMPORTS OF MANGANESE ORE, ETC. (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Sweden—							
Ore (chemical grade) ..	285	732	814	784	1,142	1,056	584
do. (metallurgical grade)	21,271	18,807	14,964	32,525	28,308	49,205	49,837
Ferro-manganese ..	5,362	583	2,073	1,866	2,258	2,327	1,445
Spiegeleisen	6,257	607	—	20	128	—	57
Ferro-silico-manganese	420	399	453	328	121	218	392
Yugoslavia—							
Ore	(a)	(a)	(a)	(a)	4,471	8,978	6,683
Algeria—							
Ore	—	79	21	8	30	11	26
Mexico—							
Ferro-manganese ..	474	1,307	1,337	2,395	2,372	940	894
United States—							
Ore (b)	1,357,392	1,169,105	1,316,743	1,297,300	1,805,050	1,852,612	2,106,491
<i>Mn content</i>	662,485	560,621	627,479	601,470	828,384	828,102	930,646
Ferro-manganese ..	28,687	72,596	87,697	58,048	96,691	106,932	57,227
<i>Mn content</i>	23,132	58,197	70,024	46,577	76,700	84,773	45,562
Argentina—							
Dioxide and borate of manganese	481	(a)	(a)	(a)	(a)	(a)	(a)
Ferro-manganese ..	1,677	(a)	(a)	(a)	(a)	(a)	(a)
Chile—							
Ferro-manganese ..	201	257	132	(a)	(a)	(a)	(a)
Japan (total imports)—							
Ore	—	—	36,946	64,143	48,368	253,777	69,065

(a) Information not available.

(b) Including the following quantities of ore containing 10 to 35% Mn (*Mn content* in brackets): 1946—Nil; 1947—9,580 (2,780); 1948—409 (137); 1949—24,345 (7,790); 1950—81,781 (21,671); 1951—156,483 (41,650); 1952—137,812 (36,310).

MERCURY
PRODUCTION OF MERCURY
(Lb.)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Union of South Africa ..	58,093	—	—	—	—	—	—
FOREIGN COUNTRIES							
Austria (c)	(a)	(a)	(a)	419	2,866	2,315	1,698
Czechoslovakia	64,651	(a)	(b) 60,000	(b) 60,000	(a)	(a)	(a)
Italy	3,862,000	4,096,000	2,906,000	3,384,000	4,054,000	4,092,000	4,246,000
Spain	3,177,000	4,225,985	1,723,433	2,454,058	3,937,217	3,380,497	2,974,304
Yugoslavia	675,000	720,000	830,000	970,000	1,091,000	1,113,000	1,111,000
Algeria	25,860	25,800	28,990	7,776	—	—	—
Mexico	886,282	735,945	363,015	412,639	285,505	613,670	663,662
United States	1,926,448	1,766,544	1,093,488	754,680	344,660	554,268	953,572
Bolivia (exports)	—	—	99	—	—	1,407	(a)
Chile	59,569	39,143	35,510	57,300	24,250	8,671	(a)
Peru	381	—	—	—	—	—	(a)
China	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Japan	104,300	123,300	128,351	187,031	99,689	140,377	234,320
Turkey	—	7,448	2,052	—	—	—	—
WORLD'S TOTAL (b) ..	11,500,000	12,200,000	7,700,000	8,800,000	10,800,000	10,900,000	11,100,000

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

(a) Information not available.

(b) Estimated.

(c) Mercury content of copper concentrates.

EXPORTS OF MERCURY, ETC.

(Domestic Produce)

(Lb.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Mercury	45,778	6,168	14,133	18,571	107,095	168,583	19,651
Chloride	122,792	9,223	36,808	20,244	51,866	94,310	(a)
Union of South Africa—							
Mercury	25,575	—	—	—	—	—	—
Canada—							
Mercury	57,005	17,084	175	8	8,100	58,235	1,500
Hong Kong (re-exports)—							
Mercury	9,576	33,333	7,144	56,392	10,032	16,796	—
Malaya (b)—							
Mercury	46,701	6,171	271	2,145	169	3,381	93
Sarawak—							
Mercury	(c) 230	—	—	—	—	—	—
Australia—							
Mercury	125	5,923	8,133	988	447	3,247	779
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Mercury	}	(a)	6,614	4,409	41,987	4,409	2,205
Sulphide of mercury			72,753	15,432	15,432	30,865	—
Other mercury salts			11,022	—	—	—	33,059
Czechoslovakia—			(d) 45,636	(a)	(a)	(a)	(a)
France—							
Mercury	3,547	8,818	—	4,409	(a)	5,952	13,889
Mercury salts	—	3,086	(a)	(a)	(a)	29,764	5,732
Germany (Federal)—							
Cinnabar	}	(a)	—	5,291	661	(e) 2,425	(a)
Mercury and amalgam				1,543	39,463	3,527	1,984
Mercury salts				14,110	71,641	(e) 37,104	(a)
Italy—							
Mercury	1,984,160	1,274,051	2,406,125	642,868	6,262,891	2,090,423	2,546,559
Mercury salts	(a)	(a)	(a)	(a)	112,656	134,702	28,880
Portugal—							
Mercury	(a)	(a)	(a)	(a)	—	15,260	31,559
Spain—							
Mercury	867,739	1,311,089	5,696,744	2,101,005	7,562,736	3,689,281	3,359,624
Mercury salts	190	55	20,128	5,787	35,821	32,159	(a)
Sweden—							
Mercury	465	300	476	549	17,637	37,479	450
Switzerland—							
Mercury	1,195	163	196	326	192	421	448
Yugoslavia—							
Mercury	(a)	(f)	(f)	(f)	1,054,250	990,537	1,061,162
Algeria—							
Mercury	34,392	30,644	9,259	—	—	—	—
Mexico—							
Mercury	844,683	945,413	363,139	493,297	376,164	524,771	598,500
United States—							
Mercury	68,932	67,148	59,713	43,860	33,977	18,311	30,369

(a) Information not available.

(b) Including re-exports.

(c) April 15 to December 31 only.

(d) January to October.

(e) January to September only.

(f) Figures of exports are not available but imports into the following countries from Yugoslavia are recorded:—
 United States—106,400 lbs. in 1947; 95,488 lbs. in 1948 and 241,371 lbs. in 1949; Czechoslovakia—110,231 lbs. in 1947 and 53,351 lbs. in 1948 (Jan.—Oct.).

EXPORTS OF MERCURY, ETC. (Cont.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Bolivia—							
Mercury	—	—	99	—	—	1,407	(a)
Chile—							
Mercury	68,423	26,956	4,484	(a)	(a)	(a)	(a)
Peru—							
Mercury	381	—	—	—	—	—	—
Japan—							
Mercury	—	187,393	782,641	(a)	1,949	(a)	(a)
Turkey—							
Mercury	2,696	—	—	—	—	—	5,578

(a) Information not available.

IMPORTS OF MERCURY, ETC.

(Less Re-exports)

(Lb.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Mercury	128,642	1,777,583	1,784,538	1,133,854	3,031,024	960,397	425,900
Chloride	(a)	(a)	(a)	(a)	(a)	248	41,193
Anglo-Egyptian Sudan—							
Mercury	—	137	150	207	223	201	(a)
Southern Rhodesia—							
Mercury	2,525	24,278	14,799	14,477	20,051	11,088	5,822
South West Africa—							
Mercury	57	19	56	179	39	(a)	(a)
Tanganyika—							
Mercury	605	438	3,100	(a)	(a)	(a)	(a)
Union of South Africa—							
Mercury	19,650	27,986	58,960	51,400	67,151	33,165	(a)
Canada (b)—							
Mercury	152,719	412,649	803,878	277,927	614,005	308,088	144,277
Mercury salts	(£689)	(£2,161)	(£1,072)	(£222)	(£1,436)	(£4,220)	(£9,906)
Newfoundland (c)—							
Mercury	64	132	198	(c)	(c)	(c)	(c)
British Guiana—							
Mercury	1,060	1,939	632	650	936	1,259	559
Burma—							
Mercury	(d) 560	(a)	(a)	(a)	(a)	(a)	(a)
Hong Kong (total imports)—							
Mercury	56,700	120,000	396,644	133,456	91,960	4,636	—
India—							
Mercury	412,678	347,770	686,126	1,080,160	2,140,362	719,582	163
Malaya (total imports)—							
Mercury	306	512	1,447	845	4,061	849	1,540
Australia—							
Mercury	7,433	25,009	93,266	44,726	61,855	99,825	46,192
Mercury salts	36,648	8,830	38,655	86,482	191,589	105,522	160,122
New Zealand—							
Mercury	159	1,257	2,495	943	2,539	2,519	1,337
Mercury salts	(a)	(a)	(a)	(a)	48,608	2,688	(a)
FOREIGN COUNTRIES							
Austria—							
Mercury	(a)	17,196	12,346	22,928	40,124	41,447	34,392
Mercury salts	(a)	2,646	441	—	—	—	—
Belgium-Luxemburg E.U.—							
Mercury	} (a)	(a)	127,868	94,799	218,258	61,729	83,776
Sulphide of mercury			24,251	2,205	4,409	2,205	2,205
Other mercury salts			39,666	4,409	4,409	—	2,205
Bulgaria—							
Mercury	4,852	(a)	(a)	(a)	(a)	(a)	(a)
Czechoslovakia—							
Mercury	661	224,651	(e) 53,352	(a)	(a)	(a)	(a)
Denmark—							
Mercury	13,448	14,771	26,235	20,503	54,013	11,905	5,291
Finland (total imports)—							
Mercury and amalgam	4,319	55,971	9,345	66,893	32,309	23,473	(a)
France—							
Mercury	515,882	560,195	943,578	268,964	(a)	856,716	(a)
Mercury salts	50,927	14,110	(a)	(a)	(a)	11,905	(a)
Germany (Federal)—							
Cinnabar	} (a)	(a)	432,955	441	—	—	—
Mercury and amalgam				254,193	720,912	438,940	336,425
Mercury salts				—	110	—	—
Greece—							
Mercury	—	13	3,799	6,837	514	86	3,468
Netherlands—							
Mercury	123,459	70,548	112,436	125,663	121,254	81,571	46,297

(a) Information not available.

(b) Including Newfoundland from April 1, 1949.

(c) Years ended March 31 of year following that stated. Included with Canada from April 1, 1949.

(d) February to September only.

(e) January to October only.

IMPORTS OF MERCURY, ETC. (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Norway—							
Mercury	177,148	43,600	4,445	35,364	69,648	119,080	25,014
Portugal—							
Mercury	36,612	29,008	6,146	14,399	3,287	55,709	16,574
Mercury salts	6,113	9,509	9,121	8,142	2,216	3,931	1,393
Sweden—							
Mercury	525,690	227,901	279,667	57,818	249,122	130,073	27,891
Switzerland—							
Mercury	192,338	64,653	101,832	55,065	152,824	117,149	25,020
Algeria—							
Mercury	—	—	3,968	—	—	1,984	2,205
Mercury salts	44	—	—	—	—	—	1,102
Angola—							
Mercury	108	54	(a)	(a)	(a)	(a)	(a)
Egypt—							
Mercury	1,023	2,873	558	1,537	4,901	4,442	2,950
Morocco (French)—							
Mercury	331	386	988	3,307	1,682	(a)	1,230
Mozambique—							
Mercury	236	368	152	79	179	218	(a)
Tunis—							
Mercury	—	220	441	(a)	(a)	(a)	(a)
Costa Rica—							
Mercury	3,589	1,801	(a)	(a)	(a)	(a)	(a)
Cuba (total imports)—							
Mercury	(a)	(a)	18,140	3,710	3,426	4,169	(a)
Mexico—							
Mercury	988	2,416	(a)	(a)	(a)	(a)	(a)
Mercury salts	3,971	58,381	(a)	(a)	(a)	(a)	(a)
United States—							
Mercury	1,055,956	984,814	2,428,248	7,838,705	4,262,056	3,637,338	5,460,908
Mercury salts	26	(a)	—	44,519	26,023	82,908	25,019
Argentina—							
Mercury	60,528	(a)	(a)	(a)	(a)	(a)	(a)
Mercury salts	8,389	(a)	(a)	(a)	(a)	(a)	(a)
Brazil (total imports)—							
Mercury	76,478	23,459	102,268	45,226	(a)	127,385	25,451
Chile—							
Mercury	—	659	417	(a)	(a)	(a)	(a)
Mercury salts	2,901	(a)	(a)	(a)	(a)	(a)	(a)
Colombia—							
Mercury	9,083	(a)	(a)	(a)	(a)	(a)	(a)
Mercury salts	3,545	(a)	(a)	(a)	(a)	(a)	(a)
Dutch Guiana—							
Mercury	11	165	—	(a)	(a)	(a)	(a)
Peru—							
Mercury	183	(a)	692	1,003	578	2,029	1,881
Mercury salts	1,493	(a)	271	358	351	1,745	734
Uruguay—							
Mercury	(a)	(a)	478	73	3,157	194	(a)
Venezuela—							
Mercury	14,279	134,890	14,081	13,606	(a)	(a)	(a)
Mercury salts	9,623	9,228	6,144	8,241	8,653	4,330	(a)
China—							
Vermilion	(b) 15,584	(b) 83,121	(a)	(a)	(a)	(a)	(a)
Iran (total imports) (c)—							
Mercury	16,248	2,928	25,366	37	(a)	(a)	(a)
Philippine Republic—							
Mercury	12,809	(a)	(a)	(a)	584	516	(a)
Syria and Lebanon—							
Mercury	3,505	(a)	(a)	(a)	(a)	(a)	(a)
Turkey—							
Mercury	509	692	509	353	692	187	348
Mercury salts	3,128	10,055	1,404	604	1,274	3,325	4,109

(a) Information not available.

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

(b) Including artificial vermilion.

MICA
PRODUCTION OF MICA
(Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Kenya	—	—	—	4	1	1	2
Northern Rhodesia—							
Sheet	(5 cwt.)	—	—	3	2	5	16
Waste	(6 cwt.)	—	—	—	—	—	—
Nyasaland	—	—	—	—	—	—	(12 cwt.)
Southern Rhodesia—							
Block and sheet	330	285	270	85	402	93	93
Crude and waste	—	6	17	213	—	250	654
South West Africa (waste)	—	—	—	—	58	112	—
Tanganyika—							
Block and sheet	70	88	66	55	58	74	118
Ground	—	5	3	36	59	—	—
Waste	265	—	—	—	25	—	—
Uganda	—	—	1	2	(7 cwt.)	(3 cwt.)	(6 cwt.)
Union of South Africa—							
Sheet	1	1	1	1	13	5	5
Waste	1,756	1,977	1,339	1,048	1,336	1,746	2,621
Canada (sales)—							
Rough mine-run or rifted	309	110	10	4	(20 lbs.)	123	6
Trimmed	14	11	33	21	81	103	28
Splittings	6	—	8	4	1	3	3
Sold for mechanical split-							
tings	114	130	142	4	47	49	47
Ground	1,186	1,865	1,673	828	989	921	441
Scrap	2,265	1,598	1,659	678	614	1,017	374
Ungraded	—	—	3	19	—	—	—
By varieties—							
Phlogopite	3,172	2,907	3,304	1,280	1,445	1,589	669
Muscovite	722	807	224	277	287	626	230
Ceylon (exports)	(8 cwt.)	(4 cwt.)	—	—	—	(4 cwt.)	9
India (exports)—							
Blocks	1,350	710	679	417	764	1,617	1,456
Splittings	6,566	7,305	10,196	9,023	11,978	13,726	5,649
Scrap	2,586	1,565	7,273	4,098	3,679	9,180	8,244
Australia (b)—							
Crude and scrap	36	10	19	(34 lb.)	23	37	(a)
Cut	23	41	40	29	30	23	32
FOREIGN COUNTRIES							
Austria	38	77	89	249	362	302	—
France	—	—	—	—	433	449	(a)
Italy	13	17	23	(a)	(a)	(a)	(a)
Norway (incl. waste)	64	183	151	326	544	969	(a)
Portugal	—	3	—	—	—	—	—
Spain	4	12	11	9	13	11	17
Sweden—							
Block	—	111	14	11	2	41	(a)
Ground	68	41	49	49	162	170	(a)
Angola—							
Sheet	6	4	10	12	15	15	28
Waste and splittings	25	84	96	43	151	119	197
Eritrea	(a)	(a)	(13 cwt.)	(8 cwt.)	1	(a)	(a)
Madagascar—							
Phlogopite (block)	459	444	499	944	789	943	1,052
Muscovite	2	—	—	—	—	—	—
Morocco (French)	(a)	(a)	142	53	81	36	6
Mozambique	2	1	—	101	41	11	(a)
Mexico (exports)	80	268	27	13	173	32	—

(a) Information not available.

(b) The following amounts of Damourite were also produced (long tons): 1946—203; 1947—314; 1948—362; 1949—692; 1950—696; 1951—505; 1952—461.

PRODUCTION OF MICA (Cont.)

Producing Country	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
United States (sales)—							
Sheet (uncut)	482	186	121	229	258	266	(a)
Scrap (b)	47,859	44,462	46,569	29,336	61,929	64,171	60,300
Argentina—							
Sheet	} 423	{ (a)	(a)	(a)	(a)	(a)	(a)
Waste			(a)	(a)	(a)	(a)	(a)
Brazil	1,613	1,207	1,868	1,341	1,784	(c) 1,329	(c) 1,240
Peru	204	2	(a)	(a)	(a)	(a)	(a)
Uruguay	1	14	2	1	1	1	(a)
TOTAL * ..	68,200	62,800	73,100	49,300	85,500	99,000	85,000

*Excluding mica produced in Roumania and the U.S.S.R.

(a) Information not available.

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

(c) Exports.

EXPORTS OF MICA

(Domestic Produce)

(Long tons)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Splittings	} 128	275	294	487	479	{ 35	20
Ground and waste .. .. .								691	494
Southern Rhodesia—							
Block and sheet	} 326	284	312	443	513	{ 100	108
Waste .. .. .								337	154
Tanganyika—							
Block and sheet	72	70	71	57	50	70	109
Ground and waste	265	5	3	36	84	—	16
Uganda	—	—	2	2	—	—	—
Union of South Africa (b)	2,675	2,238	1,287	892	1,050	838	1,746
Canada—							
Rough cobbled and thumb trimmed	313	213	162	79	104	302	102
Splittings	4	2	5	13	—	—	2
Ground	201	80	947	192	250	346	197
Scrap and waste	1,741	1,143	892	303	528	438	397
Ceylon	(8 cwt.)	(4 cwt.)	—	—	—	(4 cwt.)	9
India—							
Blocks	1,350	710	679	417	764	1,617	1,456
Splittings	6,566	7,305	10,196	9,023	11,978	13,726	5,649
Scrap	2,586	1,565	7,273	4,098	3,679	9,180	8,244
Australia—							
Slabs	(£A6,801)	(£A16,686)	(£A13,487)	2	1	5	5
FOREIGN COUNTRIES							
Austria	(a)	1	93	431	78	315	77
Belgium-Luxemburg E.U.—							
Sheets and plates	(a)	(a)	20	43	15	21	7
France—							
Unmanufactured	37	5	42	76	83	113	63
Sheet, plate and manufactures	6	11	30	11	27	39	49
Germany (Federal)—							
Unmanufactured	(a)	(a)	—	—	—	1	43
Netherlands	1	2	7	6	6	25	11
Norway—							
Sheet	220	68	89	111	562	538	498
Scrap	67	98	149	20	30	30	14
Sweden	(a)	(a)	(a)	(a)	1	10	48
Angola (b)	—	107	(a)	(a)	23	(a)	80
Madagascar—							
Phlogopite, etc.	703	538	700	794	815	672	717
Morocco (French)	—	—	—	—	139	113	4
Mozambique	1	—	2	1	—	1	(a)
Mexico	80	268	27	13	173	32	—
United States—							
Unmanufactured	132	148	151	51	150	178	264
Ground and manufactured	1,245	1,185	1,101	938	1,231	1,514	1,943
Argentina	350	(a)	(a)	269	303	(a)	(a)
Brazil	1,130	844	971	550	811	1,329	1,240
Peru	167	(a)	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

(b) Chiefly waste mica. Exports of sheet mica are very small.

IMPORTS OF MICA

(Less Re-exports)

(Long tons)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Slabs	1,073	1,091	614	94	(b) 407	292	671
Splittings	2,200	3,308	1,649	1,704	1,202	3,062	1,546
Ground and waste ..	993	629	3,300	4,225	2,031	4,138	4,197
Tanganyika	—	1	3	—	—	—	9
Union of South Africa—							
Mica and micranite sheets	12	10	15	11	16	29	(a)
Canada—							
Mica and manufactures	(£65,898)	(£139,818)	(£100,904)	(£150,744)	(£249,285)	(£326,717)	(£257,667)
India—							
Block	—	11	110	62	130	72	—
Splittings	3	30	29	19	125	26	12
Australia—							
Slabs, waste and scrap ..	(c) 50	(c) 81	(c) 51	115	120	186	38
Sheet and splittings ..	(c) 13	(c) 29	(c) 92	29	48	38	40
Ground	(c) 8	(c) 7	(c) 7	10	11	6	11
New Zealand (£N.Z.) ..	(a)	(a)	(a)	(£7,072)	(£12,834)	(£27,810)	(£17,897)
FOREIGN COUNTRIES							
Austria—							
Crude	(a)	(a)	(a)	2	6	23	22
Sheet	(a)	7	15	31	18	29	33
Belgium-Luxemburg E.U.—							
Crude sheet and crude plate	(a)	(a)	453	204	399	649	572
Cut sheet and cut plate	(a)	(a)	62	34	—	—	25
Czechoslovakia	—	3	(d) 30	(a)	(a)	(a)	(a)
Denmark—							
Block	22	10	21	23	87	550	147
Powder	21	18	25	302	842	367	2,383
France—							
Unmanufactured ..	104	386	652	695	1,545	1,634	1,336
Sheet, plate and manufactures	282	284	16	6	7	13	23
Germany (Federal)—							
Unmanufactured ..	(a)	(a)	—	443	951	1,367	1,924
Italy—							
Unmanufactured ..	} (a)	207	432	852	} 1,147	3,410	11,354
Sheet .. .. .								20	25	136
Netherlands—							
Unmanufactured ..	} 54	144	} 263	80	251	269	229
Sheet, plate and manufactured .. ..								45	34	36	56	34
Portugal	5	7	5	11	12	—	2
Sweden	(a)	(a)	(a)	188	627	407	634
Egypt	(b) 6	—	(b) 2	—	—	(a)	—
Mexico	86	102	126	64	140	80	34
United States—							
Unmanufactured ..	7,553	5,345	7,624	5,591	5,419	6,821	6,937
Cut, splittings and manufactured	4,924	5,089	8,355	8,689	11,113	10,045	4,695
Japan	—	48	130	224	80	469	605
Turkey	2	1	1	6	1	1	—

(a) Information not available.

(b) Excess of re-exports.

(c) Year ended June 30 of that stated.

(d) January to October only.

MOLYBDENUM
PRODUCTION OF MOLYBDENUM ORE
(In terms of MoS₂)
(Cwt.)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Canada (shipments) ..	6,043	6,784	2,721	—	925	3,407	4,444
Hong Kong	—	—	—	—	—	2	7
Australia	150	70	60	106	88	27	2
FOREIGN COUNTRIES							
Austria	(b) 145	(b) 20	—	340	625	755	689
Finland	4,110	2,300	—	—	—	—	—
Norway	313	3,216	2,641	2,316	2,185	4,116	4,199
Sweden	—	—	20	98	118	—	—
Morocco (French)..	1,575	1,181	—	—	—	—	—
Mexico	26,840	4,467	—	—	—	—	—
United States ..	271,102	402,485	397,411	335,268	423,809	578,196	643,735
Chile	18,367	13,172	17,454	18,346	31,652	56,572	53,935
Peru.. ..	137	103	68	82	48	105	(a)
Japan (c)	1,700	700	32	—	434	1,760	2,917
TOTAL* ..	330,500	434,500	420,400	356,560	459,880	644,940	710,000

*Excluding molybdenum ore produced in Roumania, Spain, U.S.S.R., Yugoslavia, China and Turkey.

(a) Information not available.

(b) Estimated.

(c) Revised.

EXPORTS OF MOLYBDENUM ORE, ETC.

(Domestic Produce)

(Cwt.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom— Ferro-molybdenum ..	(a)	2,680	1,400	2,620	(c) 2,940	(c) 1,560	4,640
Australia— Ore and concentrates ..	(b) (c) 131	(b) (c) 820	—	70	—	20	—
FOREIGN COUNTRIES							
Finland— Ore	4,099	1,375	—	643	—	—	—
France— Molybdic acid and molybdates	2	—	(a)	(a)	(a)	9	6
Norway— Ore	198	3,420	2,600	1,742	1	6,424	4,919
Sweden— Ore	—	—	39	—	—	—	20
Ferro-molybdenum ..	4,378	4,350	1,965	4,199	4,134	20	2,357
Morocco (French)— Ore	—	1,476	—	—	—	—	—
Mexico— Ore and concentrates (MoS ₃ content) ..	26,780	4,351	—	—	—	—	—
United States— Ore and concentrates (MoS ₃ content) .. .	8,413	44,516	61,539	79,222	92,844	55,536	91,913
Metal, alloys and scrap Ferro-molybdenum ..	1,969	1,188	503	769	1,304	974	1,538
Chile— Ore	6,620	8,509	10,620	8,520	10,520	13,249	9,733
Peru— Ore	45,742	14,874	23,125	5,905	41,336	80,700	66,930
Ore (MoS ₃ content) ..	99	917	79	—	130	40	180

(a) Information not available.

(b) Year ended June 30, 1946.

(c) Revised.

IMPORTS OF MOLYBDENUM ORE, ETC.

(Less Re-exports)

(Cwt.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Ore	25,824	46,190	45,754	52,622	61,716	62,458	65,322
Metal	—	1	2	6	8	32	27
Canada—							
Oxide (Mo content)	1,010	1,610	1,790	2,180	3,732	(a)	(a)
Ferro-molybdenum (Mo content)			1,200	960	1,143	(a)	(a)
Australia—							
Ferro-molybdenum ..	(a)	(a)	(a)	(a)	(b) 229	(b) 585	1,120
FOREIGN COUNTRIES							
Austria—							
Molybdic acid	(a)	(a)	(a)	22	356	317	504
Ferro-molybdenum ..	(a)	(a)	(a)	(a)	3,287	2,517	2,870
Finland—							
Ferro-molybdenum ..	—	—	203	245	202	(a)	(a)
France—							
Metal and alloys ..	(a)	(a)	31	22	—	51	100
Molybdic acid and molybdates	—	8	(a)	(a)	(a)	(a)	(a)
Italy—							
Ore	(a)	(a)	(a)	(a)	(a)	(a)	3,911
Ferro-molybdenum ..	15,058	535	1,214	514	1,708	1,555	4,369
Sweden—							
Ore	14,192	12,283	8,248	20,452	20,412	16,141	16,003
Ferro-molybdenum ..	1,342	5,813	818	3,706	2,047	394	181
United States—							
Ore (MoS ₂ content) ..	4,118	—	—	—	—	63	739

(a) Information not available.

(b) Years ended June 30 of that stated.

MONAZITE AND RARE EARTH MINERALS
PRODUCTION OF MONAZITE AND RARE EARTH MINERALS
(Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Ceylon—							
Monazite	(a)	(a)	(a)	(a)	(a)	(a)	14
India—							
Monazite	60	(a)	(a)	(a)	(a)	(a)	(a)
Australia (b)	—	—	167	186	156	293	(c) 115
FOREIGN COUNTRIES							
Belgian Congo—							
Monazite	—	—	—	—	—	36	14
Bastnaesite	(a)	(a)	25	43	53	122	211
Egypt—							
Monazite	(3 cont.)	—	6	3	71	1	6
Madagascar—							
Bastnaesite	—	—	—	—	—	2	3
Brazil (exports)—							
Monazite	1,230	1,723	1,756	2,278	(a)	(a)	(a)

Monazite and Bastnaesite are also produced in the United States.

(a) Information not available.

(b) Monazite content of low-grade concentrates. In addition 41 tons of high-grade concentrates have been produced.

(c) Sales.

EXPORTS OF MONAZITE, ETC.

(Domestic Produce)
(Long tons)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
India— Monazite sand	1,947	703	(a)	50	(a)	114	(a)
Australia— Concentrates	—	—	(a)	(a)	35	44	(a)
FOREIGN COUNTRIES							
France— Monazite	(2 cwt.)	11	—	1	—	—	—
Madagascar— Bastnaesite	—	—	—	—	—	2	1
United States— Cerium ores etc. ..	(a)	(a)	(a)	(a)	(a)	38	22
Brazil— Monazite sand	1,230	1,723	1,756	2,278	(a)	(a)	(a)

(a) Information not available.

IMPORTS OF MONAZITE, ETC.

(Less Re-exports)
(Long tons)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Canada— Thorium and cerium salts	(£7,800)	(£5,223)	(£17,103)	(£14,586)	(£11,171)	(£23,038)	(£20,382)
FOREIGN COUNTRIES							
France— Monazite	34	35	14	120	305	448	248
United States— Monazite sand and thorite	—	(a)	(a)	148	(a)	(a)	(a)

(a) Information not available.

NICKEL
PRODUCTION OF NICKEL ORE
(In terms of metal)
 (Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Union of South Africa (b)	491	519	451	559	829	1,120	1,289
Canada	85,770	105,912	117,625	114,901	110,410	123,128	124,832
TOTAL	86,300	106,400	118,076	115,459	111,239	124,248	126,121
FOREIGN COUNTRIES							
Finland (g)	107	—	—	—	—	82	397
U.S.S.R. (c)	20,000	25,000	25,000	25,000	25,000	25,000	25,000
Cuba (d)	16,324	3,126	—	—	—	—	10,319
United States (e)	314	577	788	705	815	675	565
New Caledonia (f)	3,300	3,300	4,805	3,327	5,542	8,740	13,984
TOTAL*	40,000	32,000	31,000	29,000	31,300	34,500	50,300
WORLD'S TOTAL* .. .	126,000	138,000	149,000	144,500	142,500	158,700	176,400

* Nickel ores are also produced in Brazil and South Korea. Totals are approximate.

(a) Information not available.

(b) Nickel content of platinum matte.

(c) Estimated by the U.S. Bureau of Mines.

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

	Long tons		Long tons
1946	11,068	1950	—
1947	1,982	1951	—
1948	—	1952	7,998
1949	—		

(e) Nickel content of salts and 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
1946	7,364	1950	7,853
1947	8,519	1951	7,680
1948	7,902	1952	(a)
1949	5,071		

(f) Content of dry ore mined. The estimated content of matte and ferro-nickel (since 1948) exported was :—

	Long tons		Long tons
1946	2,294	1950	4,842
1947	1,137	1951	4,358
1948	2,427	1952	5,827
1949	3,764		

(g) Nickel content of concentrates.

EXPORTS OF NICKEL

(Domestic Produce)

(Long tons)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Cubes, rondels, etc. ..	4,354	5,393	6,244	10,700	8,268	7,124	10,185
Plates, sheets, etc. ..	214	207	247	169	189	101	117
Ingots, sheets, wire, etc. (alloys)	1,650	1,525	1,864	2,336	2,530	1,729	2,087
Scrap and alloyed	34	1,494	1,600	2,600	7,431	4,513	1,468
Nickel oxide	111	48	19	112	176	180	194
Union of South Africa—							
Matte (Ni content) ..	313	256	405	607	575	1,112	1,412
Canada—							
Matte or speiss (Ni content)	27,344	35,506	45,358	50,806	47,402	51,680	56,922
Nickel, fine	72,140	63,175	63,613	61,686	59,727	64,605	68,802
Nickel oxide (Ni content)	461	5,834	8,743	1,028	1,489	843	1,081
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Ingots, scrap, etc. ..	} 25	105	{ 35	9	47	57	75
Sheets, wire, etc. ..								24	7	10	3	4
Czechoslovakia—							
Crude and scrap	18	60	—	(a)	(a)	(a)	(a)
Plates and sheets	6	—	—	(a)	(a)	(a)	(a)
Denmark—							
Crude and scrap	—	2	21	19	102	35	1
Finland—							
Ore	—	—	—	—	920	—	460
France—							
Ore	(a)	(a)	20	20	—	27	—
Matte and speiss	—	11	10	—	625	2	—
Ingots	—	1	3	8	399	433	92
do. (alloys)	4	—	—	—	434	21	10
Sheets and wire	—	1	6	4	10	18	4
do. (alloys)	40	63	88	70	155	39	12
Germany (Federal)—							
Crude, scrap and coin ..	(a)	(a)	—	—	827	29	74
Bars, sheets, wire, etc. ..	(a)	(a)	21	11	264	178	350
Italy—							
Ore	(a)	(a)	(a)	(a)	(a)	—	150
Ingots	—	—	98	—	—	1	1
Sheets, tubes, wire and alloys	—	388	723	867	37	16	—
Scrap	(a)	(a)	—	—	—	14	5
Netherlands—							
Crude and scrap	13	93	141	258	294	78	(a)
Norway—							
Crude	4,459	7,403	7,193	7,421	9,645	9,575	11,750

(a) Information not available.

EXPORTS OF NICKEL (Cont.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Sweden—							
Crude	35	42	—	—	—	—	—
Switzerland—							
Crude, scrap and alloys	—	268	94	92	696	333	107
Bars, sheets, etc., and alloys	146	423	336	402	547	136	109
Cuba—							
Ore	(a)	590	1	1	—	—	(a)
United States—							
Bars, rods, sheets and alloys	841	1,211	1,208	719	302	172	1,011
Scrap and alloys	4,997	7,522	5,202	2,486	2,534	3,565	5,243
Nickel-silver bars, etc. ..	910	1,395	563	457	222	198	(a)
New Caledonia—							
Ore (3% to 6% Ni)	—	1,181	—	—	—	6,889	108,145
Matte (75% to 78% Ni)	2,977	1,476	3,612	5,793	6,191	3,556	3,636
Ferro-nickel (32% to 35% Ni) ..	—	—	—	—	326	3,636	8,744

(a) Information not available.

IMPORTS OF NICKEL

(Less Re-exports)

(Long tons)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Ore, concentrates and matte	12,737	21,500	26,403	32,771	25,221	34,260	33,835
Ingots, cubes, rondels, etc.	4,742	7,655	4,685	2,292	2,480	3,225	4,578
Plates, sheets, etc.	162	439	414	270	12	47	8
Ingots, sheets, etc. (alloys)	3,206	5,222	4,296	1,243	1,111	2,288	1,941
Scrap and alloyed	480	30	276	297	820	221	784
Nickel oxide	306	389	221	456	539	491	653
Canada—							
Ingots or blocks and alloyed	5	82	37	12	19	43	28
Bars, rods, sheets, etc.	1,106	966	1,087	1,190	1,071	990	1,398
do. (alloyed)	319	181	93	90	104	84	46
Hong Kong (total imports)—							
Sheets, rods, wire, etc.	9	35	3	1	2	—	8
Australia—							
Pigs and ingots	147	796	285	1,221	407	302	613
Bars and rods	17	23	32	59	57	42	10
Scrap	—	(b) 200	(b) 143	15	6	161	2
Irish Republic—							
Nickel, alloys and manufactures	21	20	8	10	6	5	3
FOREIGN COUNTRIES							
Austria—							
Crude	(a)	186	199	462	867	663	695
Anodes		7	2	26	32	11	13
Ingots, sheets, etc.		8	13	31	12	16	3
Scrap		—	10	—	—	—	—
Belgium-Luxemburg E.U.—							
Ingots, etc.	(a)	1,033	4	21	344	357	433
Scrap		358	291	13	6	7	
Sheets, wire, etc.		477	200	147	166	138	
Czechoslovakia—							
Crude and scrap	188	1,724	(c) 1,639	(a)	(a)	(a)	(a)
Plates and sheets	36	34	(c) 29	(a)	(a)	(a)	(a)
Denmark—							
Crude and scrap	87	65	101	55	89	58	61
Finland (total imports)—							
Crude and scrap	4	39	100	24	144	210	240
France—							
Ore	—	—	—	—	—	—	6,908
Matte and speiss	2,179	785	2,633	5,734	7,142	5,448	12,167
Ingots	4,321	4,039	1,447	3,470	190	86	993
do. (alloys)	121	102	217	79	108	298	401
Sheets and wire	153	225	149	107	223	94	95
do. (alloys)	94	157	214	215	219	257	193
Nickel sulphate and oxide	1,795	1,180	(a)	(a)	(d) 434	(d) 355	598
Germany (Federal)—							
Ore	(a)	(a)	—	—	581	29,587	1,045
Crude, scrap and coin		1,774	2,089	5,869	4,080	5,488	
Bars, sheets, wire, etc.		8	26	25	21	11	
Italy—							
Ingots, scrap and alloyed	1,270	1,298	675	901	1,493	610	1,066
Sheets, tubes, wire, etc., and alloyed	59	260	226	366	263	96	88
Netherlands—							
Crude and scrap	431	576	224	245	487	323	223
Norway—							
Matte (copper-nickel)	11,138	14,464	16,771	19,006	16,362	20,634	26,119
Crude, bars, rods, etc.	22	6	2	7	51	3	9

(a) Information not available.

(c) January to October only.

(b) Year ended June 30 of that stated.

(d) Sulphate only.

IMPORTS OF NICKEL (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Portugal	55	45	12	38	21	6	8
Spain—							
Ingots, bars, etc. ..	343	274	365	144	428	230	(a)
Sweden—							
Crude	2,955	3,167	1,929	2,718	3,342	2,737	2,556
Switzerland—							
Crude, scrap, and alloyed Bars, sheets, etc., and alloyed.. .. .	931	566	780	225	604	597	518
.. .. .	212	354	432	225	192	320	366
Algeria—							
Sheets, wire and alloys	2	1	2	2	2	—	—
Egypt (total imports)—							
Crude, bars, sheets, etc.	36	12	22	13	4	14	9
Mexico—							
Ingots	40	103	32	15	44	29	21
United States—							
Ore and matte	17,005	13,068	12,370	9,936	9,942	11,454	12,884
Crude, tubes, etc., and alloys	63,538	52,385	63,899	65,869	62,316	69,209	71,327
Nickel oxide	12,965	13,459	19,209	10,930	14,559	10,702	21,389
Brazil (total imports)—							
Cubes and sheets ..	204	212	56	132	(a)	223	180
Chile—							
Ingots, bars and plates	75	73	95	(a)	(a)	(a)	(a)
Iran (total imports) (b)—							
Ingots, bars, etc. ..	67	160	—	(a)	(a)	1	(a)
Japan—							
Ore	(a)	(a)	(a)	(a)	6	532	71,675
Matte	—	—	—	(a)	(a)	296	838
Turkey—							
Ingots, bars, and sheets ..	7	8	8	—	11	—	7

(a) Information not available.

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

NITROGEN COMPOUNDS
PRODUCTION OF NITRATES (NATURAL)
(Long tons)

Producing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
India— Nitrate of potash ..	(b) 3,457	4,114	2,972	6,354	5,501	6,384	8,384
FOREIGN COUNTRIES							
Spain— Nitrate of potash ..	500	500	400	(a)	(a)	(a)	(a)
Chile— Nitrate of soda	1,622,915	1,605,460	1,758,518	1,741,957	1,588,653	1,657,804	1,405,267

A small amount of nitrate of soda is also produced in Peru, and nitrified earth in China.

(a) Information not available.

(b) Exports plus consumption in tea gardens.

ESTIMATED PRODUCTION OF MANUFACTURED NITROGEN COMPOUNDS*

(Long tons)

Producing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom (b)—							
Total ammonia products basis 25% NH ₃ ..	1,506,500	1,408,600	1,648,800	1,691,100	1,803,400	1,906,300	2,012,500
Actual ammonium sulphate	833,700	796,700	901,000	924,500	960,700	968,100	1,015,400
Canada—							
Ammonium sulphate ..	176,728	175,737	192,062	201,741	188,870	186,749	204,378
Ammonium nitrate (c) ..	236,721	(a)	(a)	(a)	(a)	(a)	(a)
Ammonium phosphate (c)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
India—							
Ammonium sulphate ..	(d) 19,108	(a)	35,210	45,935	48,845	46,747	220,302
Australia—							
Ammonium sulphate (c)	21,823	29,266	39,489	53,247	28,804	57,391	63,815
FOREIGN COUNTRIES							
Austria—							
Lime ammonium nitrate	31,321	107,298	261,909	283,605	358,176	429,122	424,787
Belgium—							
N content—							
Synthetic ammonia etc.	108,739	122,713	153,495	167,776	154,867	188,639	186,447
Ammonium sulphate ..	9,096	10,610	12,159	11,486	10,767	15,557	15,802
Cyanamide	5,355	6,786	5,333	(a)	(a)	(a)	(a)
Mixed fertilizers ..	2,835	3,785	2,181	2,531	2,874	3,618	4,318
Technical products ..	4,825	10,133	9,260	7,607	6,442	13,050	8,803
Czechoslovakia—							
Nitrogen fertilizers ..	(a)	130,300	158,000	(a)	(a)	(a)	(a)
Finland—							
Cyanamide	(a)	(a)	(a)	(a)	(a)	2,646	947
France (c)—							
Ammonium sulphate ..	106,886	201,480	242,646	268,008	249,231	227,100	236,740
Cyanamide	13,800	19,400	18,000	16,480	24,133	42,070	33,760
Nitrate of soda	9,400	16,700	21,200	34,100	42,744	31,060	33,190
Nitrate of lime	113,400	172,300	179,000	175,470	195,768	217,100	240,800
Nitrate of ammonia ..	57,300	141,300	177,600	175,700	198,475	265,280	270,300
"Ammonitrate" ..	106,400	97,400	102,900	133,600	178,771	(a)	(a)
Germany (Federal)—							
Chemical nitrogen (N content)—							
Fertilizer	183,000	187,200	250,233	360,691	433,241	473,843	593,171
Technical use	(a)	(a)	(a)	49,148	67,689	84,108	73,044
Italy—							
Ammonium sulphate ..	129,117	199,478	300,322	397,806	321,712	}	(a)
Cyanamide	29,701	73,212	120,291	53,240	190,550		
Nitrate of soda	75	453	553	3,087	2,486		
Nitrate of lime	64,896	132,327	123,655	152,435	211,491		
Nitrate of ammonia ..	8,510	13,725	20,510	24,056	48,944		
Di-ammonium phosphate	72	1,137	6,729	12,278	17,585		
Netherlands—							
Ammonium sulphate (N content)	5,525	10,791	9,740	(a)	(a)	(a)	(a)
Nitrogen fertilizers (N content)	(a)	66,818	81,773	87,172	153,783	207,301	226,514

* Includes by-product ammonium sulphate which is separately recorded as far as available on pages 71-74.

(a) Information not available.

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

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

(d) Coke-ovens only.

ESTIMATED PRODUCTION OF MANUFACTURED NITROGEN COMPOUNDS (Cont.)

Producing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Norway—							
Cyanamide	28,308	45,183	37,475	39,193	47,788	33,675	14,376
Nitrate of ammonia	2,748	3,567	3,010	3,227	5,679	5,308	5,662
Nitrate of lime	521,424	465,626	428,361	563,632	760,087	868,765	932,421
Nitrate of soda	3,317	2,966	2,638	2,524	6,640	2,348	4,210
Lime ammonium nitrate	—	22,144	21,605	27,285	70,864	55,428	40,372
Poland—							
Ammonium sulphate	54,722	64,633	(c) 76,000	(a)	} 507,000	(a)	(a)
Cyanamide	97,624	118,905	155,742	166,455			
Nitrate of soda	1,740	1,315	(a)	(a)			
"Saletrzak"	36,474	69,149	} 127,739	128,018			
Nitrate of ammonia	6,032	9,143					
Other nitrogen fertilizers	(a)	(a)	50,222	86,799			
Portugal—							
Cyanamide	} (a)	—	13	12	—	1	(a)
Ammonium chloride		—	510	1,079	979	500	(a)
Nitrate of ammonia		2,546	506	447	782	698	(a)
Nitrate of soda		1,988	786	265	169	123	(a)
Ammonium sulphate		1,485	744	144	219	469	(a)
Spain—							
Ammonium sulphate	15,779	15,921	12,921	10,039	13,520	33,247	86,949
Sweden—							
Compressed ammonia (100%)	2,574	6,168	7,403	9,428	10,139	(a)	(a)
Ammonium sulphate (b)	3,244	4,241	(d)	(d)	(d)	(a)	(a)
Ammonia (25%)	2,924	2,841	2,919	2,944	4,134	(a)	(a)
Synthetic nitrogen fertilizer (N content)	12,709	10,798	(e) 20,529	(e) 23,502	(e) 25,203	(e) 19,415	(a)
Switzerland—							
Nitrogen fertilizers (N content)	14,000	14,000	12,000	(a)	(a)	(a)	(a)
United States—							
Sulphate equivalent of ammonia produced (coke-ovens)	664,033	814,564	830,083	756,970	825,503	890,869	795,224
Actual ammonium sulphate (coke-ovens)	574,779	722,714	769,135	728,244	741,979	802,020	716,440
Actual ammonium sulphate (synthetic plants)	139,869	174,864	236,139	755,531	(a)	(a)	(a)
Anhydrous ammonia (synthetic plants)	647,801	994,643	973,023	1,155,408	(a)	(a)	(a)
Ammonium nitrate, original	647,231	970,419	882,448	909,559	(a)	(a)	(a)
Brazil (Volta Redonda)—							
Ammonium sulphate	(a)	(a)	4,209	(a)	(a)	(a)	(a)
Japan—							
Ammonium sulphate	459,451	709,597	931,209	1,212,893	1,545,165	1,647,963	1,921,446
Cyanamide	142,989	172,232	201,723	344,109	449,105	408,820	517,476
Ammonium nitrate	5,256	6,330	9,755	9,933	13,299	28,735	26,089
Ammonium chloride	(a)	(a)	2,575	4,134	7,759	13,641	27,318

(a) Information not available.

(b) Amount from gas and coke works only. Other ammonium sulphate included with "Synthetic nitrogen fertilizer."

(c) Estimated.

(d) Included with nitrogen fertilizers.

(e) Total nitrogen fertilizers. The comparable figure for 1947 was 19,362 tons.

EXPORTS OF NITROGEN COMPOUNDS

(Domestic Produce)

(Long tons)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Nitrate of potash ..	2,752	2,133	2,854	1,196	1,868	2,364	1,314
Nitrate of soda ..	5,159	1,952	28	542	1,170	7,554	2,171
Ammonium sulphate ..	277,925	246,375	221,044	262,142	277,086	225,537	447,348
Ammonium chloride ..	15,938	9,267	13,431	13,023	14,725	15,283	10,315
Ammonium nitrate ..	130,516	79,455	97,075	67,614	58,572	63,756	55,762
Ammonium phosphate ..	675	329	766	578	520	720	524
Liquid ammonia ..	10,918	7,344	850	937	932	1,117	893
Anhydrous ammonia ..	767	1,395	1,432	1,697	3,457	3,337	1,992
Canada—							
Ammonium sulphate ..	138,792	141,942	130,695	149,194	186,706	130,110	178,289
Nitrogen fertilizers ..	(a)	(a)	(a)	(a)	338,586	266,271	305,361
Hong Kong (re-exports)—							
Nitrate of potash ..	120	2,275	—	—	—	—	—
Nitrate of soda ..	4	436	—	—	9	—	—
Ammonium sulphate ..	1,631	8,746	(b) 32,992	(b) 28,668	(b) 117,170	(b) 100,751	143,391
Ammonium chloride ..	459	615	675	385	853	1,567	—
Anhydrous ammonia ..	—	10	—	—	—	—	—
India—							
Nitrate of potash ..	1,135	816	36	15	64	227	59
Malaya (including re-exports)—							
Nitrate of potash ..	—	5	1	1	5	14	12
Other nitrogen fertilizers	16	72	200	601	1,092	1,315	862
Australia—							
Nitrate of soda ..	189	5	—	—	57	3	—
Ammonium sulphate ..	115	161	106	34	158	78	31
FOREIGN COUNTRIES							
Austria—							
Lime ammonium nitrate	(a)	52,402	102,312	205,638	289,887	269,822	265,168
Ammonium nitrate ..	(a)	(a)	(a)	(a)	—	1,028	20
Ammonium sulphate ..	(a)	(a)	(a)	(a)	1,164	—	2,257
Anhydrous ammonia ..	(a)	(a)	(a)	1,383	9,227	3,528	240
Belgium-Luxemburg E.U.—							
Nitrate of potash ..	(a)	(a)	593	1,729	1,111	1,328	379
Nitrate of soda ..			24,329	17,108	2,252	359	445
Nitrate of lime ..			165	128	—	1,312	9,463
Ammonium sulphate ..			262,133	232,658	385,680	460,907	354,452
Ammonium chloride ..			18,832	8,363	1	2,347	185
Ammonium nitrate ..			26,158	64,004	67,481	165,817	71,509
Ammonium carbonate ..			125	34	51	23	28
Ammonium phosphate ..			6,021	5,830	996	1,868	2,907
Cyanamide ..			2,386	2,426	14,824	9,235	2,977
Liquid ammonia ..			369	110	45	61	83
Czechoslovakia—							
Nitrate of potash ..	—	—	(c) 4	(a)	(a)	(a)	(a)
Nitrate of soda ..	30	69	(c) —				
Ammonium sulphate ..	4	—	(c) —				
Ammonium chloride ..	15	59	(c) 39				
Ammonium nitrate ..	809	3,553	(c) 2,365				
Cyanamide ..	25	40	(c) —				
France—							
Nitrate of potash ..	1,144	4,310	3,165	4,157	4,551	3,705	1,328
Nitrate of soda ..	332	2,104	565	169	684	1,015	1,011
Nitrate of lime ..	41	2,368	2,387	1,892	3,352	6,311	5,396
Ammonium sulphate (d)	13,168	58,066	36,101	39,808	106,955	95,651	161,686
Ammonium chloride ..	(a)	(a)	555	646	1,772	1,553	399
Ammonium nitrate ..	201	551	2,550	1,550	4,824	5,249	2,143
Cyanamide ..	41	89	375	148	819	667	541
Liquid ammonia ..	1	190	368	185	473	282	222
Anhydrous ammonia ..	215	337	398	441	552	563	566

(a) Information not available.

(b) Including small amounts of synthetic nitrates of sodium, calcium and ammonia

(c) January to October only.

(d) May include some "Ammonium nitrate."

EXPORTS OF NITROGEN COMPOUNDS (Cont.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952	
FOREIGN COUNTRIES (Cont.)								
Germany (Federal)—								
Nitrate of potash ..	(a)	(a)	—	88	946	1,784	2,662	
Nitrate of soda ..			98	1,251	34,304	3,976	1,978	
Nitrate of lime, etc. ..			355	400	114,946	99,632	91,665	
Lime ammonium nitrate			(a)	(a)	(a)	(a)	(e) 17,127	333,477
Ammonium sulphate, etc.			—	654	87,318	219,480	(a)	(a)
Ammonium chloride ..			—	1,367	4,583	5,834	1,966	(a)
Ammonium nitrate, etc.			—	1	—	4,436	1,750	—
Cyanamide ..			—	—	5	4,893	(b) 4,226	(a)
Liquid ammonia ..	—	—	276	126	10,334	30,854		
Italy—								
Nitrate of soda ..	(a)	(a)	—	20	23	1	249	
Nitrate of lime ..	(a)	(a)	3,670	2,291	(a)	—	1,969	
Ammonium nitrate ..	(a)	91	7,200	482	586	10	387	
Ammonium sulphate ..	(a)	1	26,149	41,208	16,890	31,674	172,600	
Cyanamide ..	(a)	—	1,584	1,874	4,721	11,683	6,330	
Netherlands—								
Nitrate of potash ..	—	—	1	5	17	25	14	
Nitrate of soda ..	—	—	(a)	(a)	17	62	26	
Nitrate of lime ..	—	—	31	7,879	7,075	39,302	46,765	
Ammonium sulphate ..	—	7,888	7,187	34,593	103,619	205,218	286,161	
Ammonium chloride ..	213	429	121	—	41	56	10	
Ammonium nitrate ..	—	98	(a)	(a)	(a)	(a)	—	
Lime ammonium nitrate	—	984	31	979	(a)	49,620	149,337	
Other nitrogen fertilizers	—	215	441	(a)	82	46	—	
Norway—								
Nitrate of soda ..	2,273	3,962	2,474	1,807	5,895	4,531	3,957	
Nitrate of lime ..	421,719	385,236	354,210	538,165	731,883	825,026	618,736	
Ammonium nitrate ..	148	1,919	632	1,241	1,828	1,707	660	
Cyanamide ..	32,082	42,615	30,446	40,138	42,282	14,005	17,070	
Spain—								
Ammonium sulphate ..	2,778	2,216	166	447	709	874	(a)	
Synthetic nitrates ..	2,026	577	748	1,385	158	713	(a)	
Sweden—								
Nitrates of potash, soda and lime ..	7	52	59	6	34	17	67	
Ammonium nitrate ..	2,961	—	—	115	297	129	17	
Ammonium sulphate ..	123	54	—	—	—	—	—	
Liquid ammonia ..	1	—	5	—	—	—	—	
Switzerland—								
Nitrate of potash (crude)	271	298	14,172	1,256	15,449	8,686	10,658	
Nitrates of potash and soda (purified) ..	256	654	364	2,154	—	10	68	
Ammonium sulphate, etc.	(a)	(a)	4,733	2,715	3,217	2,274	5,800	
United States—								
Nitrate of soda ..	14,500	17,786	15,268	3,316	31,448	38,990	8,430	
Ammonium nitrate (c)	6,225	5,968	4,542	435,220	87,058	5,628	22,022	
Other nitrogen fertilizers (d)	104,746	137,149	560,368	20,991	36,931	56,936	42,954	
Ammonium sulphate ..	22,550	79,108	187,934	589,940	737,156	119,732	108,650	
Nitrogen phosphatic fertilizers ..	3,360	55,900	30,848	179,433	151,379	97,317	54,348	
Anhydrous ammonia ..	5,499	5,412	3,042	3,508	9,109	5,274	13,778	
Chile—								
Nitrate of soda ..	1,386,113	1,590,978	1,618,919	1,523,256	1,637,818	1,520,133	1,252,000	
Nitrate of potash ..	702	165,669	103,177	52,655	73,619	52,388	47,800	
Japan—								
Ammonium sulphate ..	—	5,559	26,430	—	47,496	96,078	(a)	

(a) Information not available.

(b) January to September only.

(c) Ammonium nitrate fertilizer not separately recorded prior to 1949.

(d) Including ammonium nitrate fertilizer up to 1948.

(e) October to December only.

IMPORTS OF NITROGEN COMPOUNDS

(Less Re-exports)

(Long tons)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Nitrate of potash ..	297	110	25	(b) 37	244	489	343
Nitrate of soda	45,085	19,276	44,553	43,846	17,000	30,044	16,873
Cyanamide	686	1,573	1,703	1,808	3,615	3,439	7,748
Ammonium chloride ..	—	(b) 6	—	—	—	9	—
Ammonium nitrate ..	—	—	—	—	2	—	—
Ammonium phosphate ..	18,273	9,615	—	—	21	—	—
Ammonium sulphate ..	—	—	858	—	—	—	(b) 1
Anhydrous ammonia ..	—	—	2	2	6	13	15
Anglo-Egyptian Sudan—							
Nitrogenous fertilizers	2,717	2,368	3,447	12,576	9,654	10,560	24,201
Kenya and Uganda—							
Nitrate of soda	(a)	(a)	81	—	—	—	25
Synthetic nitrate of soda, calcium and ammonia	(a)	(a)	1,432	—	—	19	—
Other nitrogen fertilizers	(a)	(a)	440	1,093	707	1,315	3,915
Mauritius—							
Nitrate of potash ..	500	—	1,976	991	988	1,482	1,238
Nitrate of soda	3,454	9,220	5,829	4,940	6,916	6,622	7,626
Ammonium chloride ..	—	427	—	—	—	—	—
Ammonium sulphate ..	2,500	4,596	11,408	19,566	14,078	21,828	22,437
Northern Rhodesia—							
Nitrates	—	1	—	—	8	72	119
Ammonium compounds	39	43	449	570	511	837	827
Southern Rhodesia—							
Nitrates (incl. fertilizers)	84	79	2,786	1,449	1,559	1,577	2,294
Anhydrous ammonia ..	12	14	9	11	20	19	19
South West Africa—							
Anhydrous ammonia ..	4	4	7	6	8	9	(a)
Tanganyika—							
Nitrate of soda	(a)	(a)	20	1	—	—	2
Synthetic nitrate of soda, calcium and ammonia	(a)	(a)	260	101	2	21	25
Other nitrogen fertilizers	(a)	(a)	26	694	813	853	4,889
Union of South Africa—							
Nitrate of soda	472	4,953	3,034	248	288	—	(a)
Ammonium sulphate ..	10,198	10,255	4,746	23,892	33,569	41,275	(a)
Ammonium chloride ..	534	681	397	777	599	1,305	(a)
Ammonium nitrate ..	2,873	5,893	12,482	27,484	26,396	16,136	(a)
Anhydrous ammonia ..	3	—	2	3	1	1	(a)
British Guiana—							
Ammonium sulphate ..	11,046	8,452	10,158	15,147	10,329	17,967	12,831
British West Indies—							
Barbados—							
Nitrate of soda ..	—	—	613	1,253	—	—	—
Ammonium sulphate ..	7,484	2,582	6,771	7,582	6,222	12,137	10,039
Jamaica—							
Nitrogenous fertilizers	6,656	6,630	5,812	9,313	10,844	15,954	(a)
St. Vincent—							
Ammonium sulphate ..	200	499	390	560	199	504	925
Trinidad and Tobago—							
Ammonium sulphate ..	7,330	6,826	9,136	5,715	5,275	8,916	11,504
Canada (c)—							
Nitrate of potash ..	366	261	355	439	448	634	350
Nitrate of soda	13,909	14,973	17,594	16,938	17,486	23,613	20,042
Ammonium sulphate ..	57	110	116	125	92	281	754
Ammonium chloride ..	731	139	526	388	351	1,128	262
Ammonium nitrate ..	73	75	93	148	652	1,279	1,251
Anhydrous ammonia ..	1,836	2,202	58	525	5,714	1,214	7,620

(a) Information not available.

(b) Excess of re-exports.

(c) Including Newfoundland from April 1, 1949.

IMPORTS OF NITROGEN COMPOUNDS (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES (Cont.)							
Newfoundland (c)—							
Nitrogen fertilizers ..	580	849	800	(c)	(c)	(c)	(c)
Liquid ammonia ..	5	5	9	(c)	(c)	(c)	(c)
Anhydrous ammonia ..	7	10	5	(c)	(c)	(c)	(c)
Ceylon—							
Nitrate of potash refuse	—	—	—	—	2	—	—
Nitrate of soda ..	—	—	3,620	3,665	29	—	—
Ammonium sulphate ..	29,567	44,027	47,298	54,345	49,790	86,306	51,372
Cyanamide ..	—	—	709	292	160	196	281
Cyprus—							
Ammonium chloride ..	13	2	5	6	6	6	3
Hong Kong (total imports)—							
Nitrate of potash ..	202	446	—	—	—	—	—
Nitrate of soda ..	88	1,337	—	—	264	—	—
Ammonium sulphate ..	1,687	4,311	(b) 44,055	(b) 39,447	(b) 100,329	(b) 105,195	156,594
Ammonium chloride ..	961	1,142	1,075	442	1,084	4,184	(a)
Anhydrous ammonia ..	22	68	—	—	—	—	—
India—							
Nitrate of soda ..	—	1,712	23,666	33,769	583	10,710	3,705
Ammonium sulphate ..	121,848	117,825	140,009	121,297	410,907	84,684	33,615
Ammonium phosphate	4,504	6,002	4,737	18,666	—	—	1,350
Ammonium chloride ..	1,904	1,816	3,429	4,438	1,508	4,443	2,729
Other ammonium salts	308	2,553	3,629	817	399	2,809	243
Anhydrous ammonia ..	157	191	111	144	91	137	45
Other nitrogen fertilizers	1	6,978	5,450	6,428	12,989	450	5,584
Malaya (total imports)—							
Nitrate of potash ..	53	4	—	41	10	84	22
Other nitrogen fertilizers	1,937	14,715	10,861	17,131	22,311	29,154	35,964
Pakistan (f)—							
Nitrate of soda ..	(a)	(a)	(a)	(a)	(a)	60	5
Ammonium sulphate ..							
Ammonium chloride ..							
Other ammonium salts							
Anhydrous ammonia ..							
Palestine—							
Nitrogen fertilizers ..	7,208	(a)	(a)	(e)	(e)	(e)	(e)
Anhydrous ammonia ..	7	(a)	(a)	(e)	(e)	(e)	(e)
Australia—							
Nitrate of potash ..	124	139	35	218	269	805	180
Nitrate of soda ..	3,007	3,720	8,019	15,324	13,270	12,740	10,119
Ammonium chloride ..	84	128	14	120	21	59	31
Ammonium sulphate ..	26,052	11,587	25,478	28,485	42,749	28,982	10,736
Ammonium nitrate ..	(d) 80	(d) 1,304	(d) 799	1,218	535	3,092	4,276
Other nitrogen fertilizers	(d) 30	(d) 2	(d) 69	(d) 33	86	55	15
New Zealand—							
Nitrate of potash ..	1	22	11	10	91	64	50
Nitrate of soda ..	2,106	2,802	2,504	3,204	3,007	4,042	3,302
Ammonium sulphate ..	649	1,126	2,411	2,687	4,254	4,746	4,540
Ammonium chloride ..	170	340	96	131	338	235	452
Anhydrous ammonia ..	62	76	91	110	83	83	77
Cyanamide ..	(a)	(a)	—	36	—	503	454
Fiji—							
Ammonium sulphate ..	(a)	(a)	2,719	2,989	4,573	3,508	4,110
Irish Republic—							
Nitrate of potash ..	46	55	40	141	215	95	90
Nitrate of soda ..	174	8,051	10,100	6,037	159	5,788	6,032
Ammonium sulphate ..	4,021	8,089	27,562	25,844	31,185	36,700	25,202
Anhydrous ammonia ..	28	48	38	56	57	80	73

(a) Information not available. (b) Including some small amounts of synthetic nitrates of sodium, calcium and ammonia.

(c) Years ended March 31 of year following that stated. Included with Canada from April 1, 1949.

(d) Years ended June 30 of that stated.

(e) See "Israel" under Foreign Countries.

(f) Years ended March 31 following that stated. Included with India prior to 1948.

IMPORTS OF NITROGEN COMPOUNDS (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952		
FOREIGN COUNTRIES									
Austria—									
Nitrate of lime	(a)	(a)	(a)	(a)	(a)	2,928	5,404		
Nitrate of potash				119	205	206	160		
Cyanamide				(a)	6,941	4,886	—		
Ammonium chloride				17	176	322	202		
Belgium-Luxemburg E.U.—									
Nitrate of potash	(a)	(a)	41	27	113	124	2		
Nitrate of soda				12,902	63	14,162	5,957	25,264	
Nitrate of lime				1	100	—	1	318	
Cyanamide				2	—	137	728	—	
Ammonium sulphate				16	20	6,673	1,694	2,750	
Ammonium chloride				136	597	739	546	644	
Ammonium nitrate				—	—	—	3,497	478	8,205
Anhydrous ammonia				—	6	6 226	(a)	11,543	(a)
Bulgaria—									
Nitrate of potash	118	(a)	(a)	(a)	(a)	(a)	(a)		
Nitrate of soda	72								
Ammonium nitrate, etc.	5,339								
Ammonium chloride	99								
Liquid ammonia	—	—	—	—	—	—	—		
Czechoslovakia—									
Nitrate of soda	200	406	(c) —	(a)	(a)	(a)	(a)		
Ammonium chloride	15	—	(c) 6,776	(a)	(a)	(a)	(a)		
Cyanamide, etc.	11	68	(c) 84	(a)	(a)	(a)	(a)		
Denmark—									
Nitrate of potash	462	380	335	587	738	939	504		
Nitrate of soda	46,046	55,320	39,391	73,600	44,136	40,187	13,940		
Nitrate of lime	181,796	186,268	163,366	241,030	305,619	361,281	358,018		
Ammonium sulphate	—	14,173	27,603	9,501	32,182	14,436	9,685		
Ammonium chloride	580	482	635	430	820	1,024	409		
Ammonium nitrate	140	312	258	198	216	61,662	21,188		
Cyanamide	5,033	4,862	5,190	2,188	3,937	787	—		
Finland (total imports)—									
Nitrate of potash	17	33	37	55	30	100	(a)		
Nitrate of soda	1	17,539	5,637	241	607	565	(a)		
Nitrate of lime	16,212	24,977	22,630	38,742	40,209	29,276	(a)		
Ammonium nitrate	4,495	14,283	17,383	10,811	7,262	6,168	(a)		
Ammonium sulphate	203	966	608	541	23,434	61,504	(a)		
Ammonium chloride	133	156	43	136	42	319	(a)		
Cyanamide	—	—	—	—	—	—	(a)		
Liquid ammonia	17	41	215	450	402	555	(a)		
France—									
Nitrate of soda	196,194	135,103	128,826	107,340	139,242	147,097	59,834		
Nitrate of lime, etc.	180,413	94,068	11,748	22,259	—	1,699	—		
Ammonium sulphate (b)	17,952	21,305	32,325	10,553	—	25,111	33,602		
Ammonium nitrate	10,567	—	119,812	99,430	23,385	28,157	14,452		
Ammonium chloride	(a)	(a)	976	158	1,063	791	616		
Anhydrous ammonia	1,685	5,494	15,161	13,889	16,077	25,722	19,440		
Cyanamide	—	1,968	6,709	7,577	25,869	5	(a)		
Liquid ammonia	1	3,121	32	—	2	16	1		
Other nitrogen fertilizers	19,737	35,191	2,040	20	59	103	1,320		
Germany (Federal)—									
Nitrate of potash	(a)	(d) 59,052	85,864	34	—	10	—		
Nitrate of soda				—	—	3,978	—		
Nitrate of lime, etc.				15	—	—	—		
Ammonium nitrate				97,833	32,613	—	—		
Ammonium sulphate				1	13	—	—		
Ammonium chloride				—	—	—	—		
Liquid ammonia	—	—	—	1	—	—	3		
							25		

(a) Information not available.
 (c) January to October only.

(b) May include some "ammonium nitrate."
 (d) Nitrogen in fertilizers.

IMPORTS OF NITROGEN COMPOUNDS (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Greece—							
Nitrate of potash ..	125	55	10	31	126	123	96
Nitrate of soda ..	8,779	134	9,214	3,953	16,671	46,522	20,625
Ammonium nitrate ..	—	2,788	6,569	326	26,053	27,594	8,544
Ammonium sulphate ..	4,462	10,373	16,211	47,254	23,943	58,645	16,869
Liquid ammonia ..	95	67	758	1,169	745	1,224	1,134
Iceland—							
Nitrate of lime ..	3,550	1,964	833	1,968	1,462	—	(a)
Nitrate of soda ..	2	—	—	492	—	—	(a)
Ammonium sulphate ..	893	(a)	(a)	(a)	(a)	(a)	(a)
Ammonium nitrate ..	(a)	(a)	(a)	2,391	2,705	7,135	(a)
Lime ammonium nitrate	2,179	2,578	4,104	4,500	4,913	2,461	(a)
Nitrophoska ..	—	5	—	(a)	(a)	295	(a)
Other nitrogen fertilizers	250	(a)	(a)	1,715	244	177	(a)
Italy—							
Nitrate of potash ..	(a)	1,540	753	1,574	1,839	1,320	928
Nitrate of soda ..	(a)	70,834	29,557	4,496	40,564	25,666	18,688
Nitrate of lime ..	—	—	3,675	2,294	10,488	7,814	5,866
Ammonium chloride ..	(a)	197	279	224	487	413	408
Ammonium nitrate ..	(a)	7,399	642	31	906	5,038	1,613
Cyanamide ..	(a)	8,269	50	4,103	8,313	2,948	8,501
Netherlands—							
Nitrate of potash ..	156	198	220	718	1,891	1,647	1,537
Nitrate of soda ..	114,450	55,781	69,339	33,160	31,332	1,956	5,494
Nitrate of lime ..	29,461	19,647	14,727	13,108	28	314	2,489
Ammonium sulphate ..	982	14,069	966	2,340	6,912	285	11
Ammonium chloride ..	85	206	160	241	810	974	613
Ammonium nitrate ..	78,271	106,927	60,178	67,568	5,617	—	1
Lime ammonium nitrate	2	—	—	—	177,074	109,756	38,937
Cyanamide ..	14,181	19,887	11,704	19,501	17,178	12,795	10,260
Other nitrogen fertilizers	99	—	—	15,812	—	—	536
Norway—							
Nitrate of potash ..	122	115	93	169	106	203	80
Nitrate of soda ..	—	—	—	—	—	—	—
Ammonium sulphate ..	—	—	162	—	266	266	145
Ammonium nitrate ..	—	—	—	—	—	—	—
Poland—							
Ammonium nitrate ..	(a)	17,440	(a)	(c)	(a)	(a)	(a)
Portugal—							
Nitrate of potash ..	198	249	122	173	—	1	153
Nitrate of soda ..	44,998	22,834	50,644	29,708	26,969	22,775	32,046
Ammonium sulphate ..	7,820	24,320	39,249	37,630	84,804	104,588	60,722
Ammonium chloride ..	623	561	300	774	1,753	61	53
Ammonium nitrate ..	8,198	1,603	4,518	8,194	1,027	1,401	2,307
Cyanamide ..	4,348	3,758	974	2,954	6,882	14,745	4,759
Lime ammonium nitrate	—	—	3,008	4,563	1,030	2,095	15,045
Spain—							
Nitrate of soda ..	68,550	87,518	73,069	101,670	162,818	30,555	(a)
Cyanamide ..	—	—	975	2,341	3,742	226	(a)
Ammonium sulphate ..	—	37,143	45,549	57,751	175,223	172,194	(a)
Ammonium chloride ..	—	955	178	1,424	12,465	16	(a)
Synthetic nitrates ..	31,355	4,162	10,039	27,089	93,004	112,787	(a)
Sweden—							
Nitrate of potash ..	592	412	223	610	542	675	382
Nitrate of soda ..	24,280	18,156	23,520	37,944	34,370	36,174	29,706
Nitrate of lime ..	111,172	79,374	78,177	131,916	210,194	284,563	280,700
Ammonium nitrate ..	—	—	1	2,444	6,378	7	2
Ammonium sulphate ..	21	20	14	15	3,333	8,825	1,677
Ammonium chloride ..	758	613	890	403	634	440	285
Cyanamide ..	—	—	—	2,529	(a)	(a)	(a)
Liquid ammonia ..	—	5	—	—	—	1	—

(a) Information not available.

IMPORTS OF NITROGEN COMPOUNDS (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Switzerland—							
Nitrate of potash, crude	49	—	—	—	—	—	98
Nitrates of potash and soda, purified ..	707	737	878	319	932	547	513
Ammonium sulphate, etc.	10	5	105	12	1,089	419	130
Ammonium chloride ..	383	644	331	323	516	798	269
Liquid ammonia ..	1	—	—	—	49	5	14
Yugoslavia—							
Nitrate of potash ..	(a)	(a)	(a)	(a)	98	222	219
Nitrate of soda ..					9,399	12,210	6,097
Ammonium chloride ..					82	141	172
Ammonium sulphate ..					295	79	113
Ammonium nitrate ..					2,599	8,930	3,932
Algeria—							
Nitrate of potash ..	20	15	100	16	38	22	20
Nitrate of soda ..	275	5,187	8,494	583	345	384	340
Nitrate of lime ..	4,643	1,157	1,255	537	2,216	4,104	3,269
Ammonium sulphate ..	4,204	18,343	12,666	14,183	14,401	21,608	9,949
Ammonium nitrate ..	(a)	(a)	5,304	527	3,664	2,617	1,486
Cyanamide ..	41	20	985	59	578	274	320
Liquid ammonia ..	135	141	75	80	123	106	95
Egypt—							
Nitrate of soda ..	169,720	367,057	369,245	339,138	348,158	246,893	274,570
Nitrate of lime ..	(a)	(a)	32,126	50,732	193,600	177,999	190,073
Ammonium sulphate ..	20,807	21,797	63,620	61,895	17,452	65,488	38,297
Ammonium chloride ..	287	315	582	569	485	486	577
Ammonium nitrate ..	—	10	20,854	104,467	68,278	69,838	37,938
Nitro-chalk ..	—	—	—	—	—	—	492
Madagascar—							
Nitrogenous fertilizers ..	1,480	2,311	1,177	(a)	(a)	(a)	(a)
Morocco (French)—							
Nitrate of soda ..	523	633	49	285	246	(a)	188
Ammonium sulphate ..	528	7,510	—	3,987	5,488	(a)	9,392
Morocco (Spanish)—							
Ammonium sulphate ..	105	110	(a)	(a)	(a)	(a)	(a)
Mozambique—							
Ammonium sulphate ..	—	—	—	—	—	—	(a)
Tunis—							
Nitrate of potash ..	6	12	16	(a)	(a)	(a)	(a)
Nitrate of soda ..	90	186	276	(a)	(a)	275	(a)
Nitrate of lime ..	63	—	20	(a)	(a)	39	(a)
Ammonium sulphate ..	—	290	1,256	(a)	(a)	1,111	(a)
Cuba—							
Nitrate of potash ..	(a)	(a)	18,954	13,143	16,842	22,066	(a)
Nitrate of soda ..			10,368	11,713	7,904	13,496	(a)
Ammonium sulphate ..			15,906	21,913	28,741	44,263	(a)
Anhydrous ammonia ..			217	198	443	148	(a)
Mexico—							
Nitrate of soda ..	(b) 11,236	19,690	15,441	5,628	7,962	12,334	11,007
Ammonium sulphate ..	2,899	2,914	2,415	10,947	14,543	2,842	50
Ammonium chloride ..	376	392	(a)	(a)	(a)	(a)	(a)
Ammonium nitrate ..	2,206	3,337	3,026	3,624	4,405	6,783	5,156
Liquid ammonia ..	837	1,485	1,504	1,338	1,701	2,376	1,302
United States—							
Nitrates of potash and soda, crude ..	3,929	2,232	—	6,074	18,240	7,365	14,696
Nitrate of potash ..	—	—	—	6	175	5,866	23,426
Nitrate of soda ..	482,920	496,897	643,717	603,163	549,709	648,196	602,972
Nitrate of lime ..	2,946	7,900	8,715	34,474	39,581	49,771	35,237
Ammonium sulphate ..	90,677	102,141	94,542	94,195	128,154	192,952	212,556
Ammonium chloride ..	328	369	821	739	5,332	2,995	1,663
Ammonium nitrate ..	987	88,786	89,860	123,836	198,948	306,359	406,079
Ammonium phosphates	81,351	93,919	96,632	112,745	95,215	120,575	119,032
Cyanamide ..	145,619	137,289	104,021	103,469	87,254	60,921	85,888

(a) Information not available.

(b) Includes nitrate of potash.

IMPORTS OF NITROGEN COMPOUNDS (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Argentina—							
Nitrate of potash ..	(a)	} 47,000	13,319	25,910	21,455	(a)	(a)
Nitrate of soda ..	12,527						
Ammonium sulphate ..	309						
Liquid ammonia ..	21						
Anhydrous ammonia ..	44						
Brazil (total imports)—							
Nitrate of potash ..	703	906	1,168	881	(a)	1,988	1,354
Nitrate of soda ..	34,905	69,401	36,879	37,639	61,509	70,332	45,547
Ammonium nitrate ..	10	90	75	379	(a)	1,018	508
Ammonium sulphate ..	864	1,354	134	803	(a)	21,314	6,383
Cyanamide ..	137	49	143	167	(a)	61	194
Liquid ammonia ..	13	74	41	37	(a)	73	58
Anhydrous ammonia ..	253	239	112	234	(a)	412	201
Chile—							
Ammonium chloride ..	261	} 3,643	1,918	6,184	2,258	4,986	4,634
Ammonium sulphate ..	4						
Ammonium nitrate ..	3,248						
Liquid ammonia ..	3						
Anhydrous ammonia ..	86						
Colombia—							
Nitrate of potash ..	249	} (a)	(a)	{ 158	289	(a)	(a)
Nitrate of soda ..	2,287						
Ammonium chloride ..	6						
Ammonium sulphate ..	7						
Peru—							
Nitrate of potash ..	(a)	(a)	(a)	(a)	5,687	(a)	(a)
Nitrate of soda (c) ..	36,625	(a)	31,025	10,288	7,383	(a)	(a)
Liquid ammonia ..	103	(a)	116	123	26	172	(a)
Uruguay—							
Nitrate of potash ..	} (a)	(a)	{ 43	106	41	9	(a)
Nitrate of soda ..							
Ammonium sulphate ..							
Liquid ammonia ..							
			262	708	330	409	(a)
			64	314	392	900	(a)
			87	149	168	(a)	(a)
Venezuela—							
Nitrate of potash ..	66	51	427	224	82	88	(a)
Nitrate of soda ..	1,653	2,588	347	259	448	400	(a)
Ammonium sulphate ..	617	523	136	676	1,786	206	(a)
Liquid ammonia ..	18	50	76	70	(a)	(a)	(a)
China—							
Nitrate of potash ..	214	710	28	(a)	(a)	(a)	(a)
Nitrate of soda ..	370	2,395	11,406	(a)	(a)	(a)	(a)
Ammonium sulphate ..	3,923	28,794	41,875	(a)	(a)	(a)	(a)
Israel—							
Nitrate of soda ..	} (b)	(b)	(b)	{ 148	15	(a)	(a)
Ammonium sulphate ..							
Nitrogen fertilizers ..							
Anhydrous ammonia ..							
				7,223	14,409	(a)	(a)
				3,745	3,943	(a)	(a)
				33	30	(a)	(a)
Japan (total imports)—							
Ammonium sulphate ..	(a)	(a)	47,215	(a)	200,643	(a)	(a)
Ammonium nitrate ..	—	239,096	276,051	195,097	73,342	(a)	(a)
Syria and Lebanon—							
Nitrates ..	3,370	(a)	(a)	(a)	(a)	(a)	(a)
Ammonium chloride ..	73	(a)	(a)	(a)	(a)	(a)	(a)
Liquid ammonia ..	1	(a)	(a)	(a)	(a)	(a)	(a)
Turkey—							
Nitrate of soda ..	—	2,252	1,372	690	69	1,240	2,929
Ammonium chloride ..	—	125	270	304	207	406	569
Ammonium sulphate ..	890	135	3,961	—	—	1	2
Ammonium nitrate ..	—	—	150	147	169	532	—
Di-ammonium phosphate ..	—	—	906	—	—	—	—
Other nitrogen fertilizers ..	50	1,485	—	—	—	—	—
Liquid ammonia ..	(a)	(a)	33	25	111	49	34

(a) Information not available. (b) See "Palestine" under British Countries.

(c) Imports of "Fertilizers" from Chile assumed to be nitrate of soda.

PETROLEUM AND ALLIED PRODUCTS

PRODUCTION OF CRUDE PETROLEUM*

(Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Crude petroleum ..	55,500	47,400	43,600	45,600	45,700	45,200	55,500
Shale oil ..	111,775	97,232	109,600	112,500	111,600	104,600	106,500
Union of South Africa							
(Shale oil) (c) ..	22,700	29,200	39,016	37,581	39,569	37,514	32,997
Canada (b) ..	905,234	919,654	1,496,040	2,636,443	3,626,245	6,027,283	7,748,160
Barbados ..	183	44	11	24	—	—	—
Trinidad (b) ..	2,877,400	2,919,000	2,872,493	2,945,246	2,947,489	2,977,531	3,036,811
Bahrain Islands (e) ..	1,073,870	1,262,336	1,463,454	1,473,096	1,476,663	1,474,742	1,475,104
British Borneo—							
Brunei ..	285,496	1,700,231	2,645,412	3,337,027	4,051,010	4,891,784	4,993,687
Sarawak ..	1,000	23,964	46,597	56,752	56,601	51,702	49,944
Burma (b) ..	—	11,570	(f)	(f)	(f)	(f)	(f)
India (b) ..	—	251,707	253,313	257,572	251,804	260,400	(a)
Pakistan ..	296,340	54,521	82,018	134,457	183,000	193,985	226,200
Kuwait (e) ..	797,350	2,185,143	6,291,577	12,183,669	17,018,666	27,783,170	37,042,122
Qatar (e) ..	—	—	—	—	1,551,853	2,332,214	3,245,343
Australia ..	—	—	120	140	160	270	—
New Zealand ..	333	336	339	965	948	758	1,032
TOTAL ..	6,427,000	10,132,000	15,343,000	23,221,000	31,361,000	46,180,000	58,270,000
FOREIGN COUNTRIES							
Albania ..	120,000	180,000	240,000	300,000	345,000	300,000	100,000
Austria ..	832,338	(d) 900,000	(d) 960,000	(d) 1,250,000	(d) 1,500,000	(d) 2,100,000	(d) 2,982,100
Czechoslovakia ..	23,300	36,600	35,000	48,000	49,000	50,000	108,000
France ..	50,865	49,090	50,908	56,632	125,200	289,000	343,700
Germany (Federal) ..	(g) 638,900	(g) 567,506	625,207	828,284	1,100,949	1,345,100	1,727,705
Hungary ..	650,207	560,700	476,000	500,000	502,000	500,000	512,000
Italy ..	10,611	10,296	9,079	9,072	8,050	17,318	62,494
Netherlands ..	61,657	209,300	487,715	611,131	693,708	703,024	703,712
Poland ..	114,898	126,212	(d) 133,000	(d) 150,000	(d) 160,000	(d) 180,000	(d) 205,000
Roumania ..	4,189,767	3,736,393	(d) 4,084,000	(d) 4,324,000	(d) 4,429,000	(d) 4,300,000	(d) 4,232,000
U.S.S.R. (d) ..	21,500,000	25,600,000	28,900,000	33,000,000	37,200,000	41,600,000	46,600,000
Yugoslavia (h) ..	28,380	32,720	35,922	62,241	108,600	145,793	149,144
Algeria ..	162	128	108	267	3,390	8,040	45,298
Egypt ..	1,262,053	1,312,542	1,860,736	2,209,287	2,305,925	2,295,343	2,315,220
Morocco (French) ..	2,534	2,723	12,715	17,203	38,695	74,472	99,431
Cuba ..	19,727	37,000	36,000	20,000	15,000	13,000	15,000
Mexico (b) ..	6,632,850	8,026,400	8,243,549	8,746,100	10,156,056	10,761,000	10,854,700
United States (b) ..	237,525,890	254,381,781	276,737,671	252,321,000	270,352,600	307,905,600	313,972,200
Argentina ..	2,924,574	3,071,410	3,265,272	3,175,900	3,371,000	3,449,000	3,514,000
Bolivia ..	54,639	56,847	69,888	89,173	82,000	66,000	68,000
Brazil ..	8,600	12,410	18,450	14,060	37,823	89,815	96,510
Chile ..	—	—	—	16,000	79,000	95,000	113,890
Colombia (b) ..	3,158,242	3,518,310	3,352,300	4,186,200	4,791,091	5,520,966	5,438,193
Ecuador ..	315,563	314,730	341,879	341,717	350,959	361,000	378,590

* Excluding Natural Gasoline. See page 212.

(a) Information not available.

(b) The following conversion rates have been used: 35 gallons=1 barrel, and the undermentioned barrels=1 ton:—Canada 7.9, Trinidad 7.0, Burma 7.4, India 7.4, Pakistan 7.0, Cuba 7.5, Mexico 7.1, United States 7.3, Bolivia 7.6, Colombia 7.1, Ecuador 7.5, Venezuela 6.95, Indonesia 7.5.

(c) Years ended June 25 of that stated.

(d) Estimated.

(e) British Protected State.

(f) Included under Foreign Countries.

(g) British and U.S. Zones.

(h) Revised.

PRODUCTION OF CRUDE PETROLEUM (Cont.)

Producing Country	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Peru.. .. .	1,612,795	1,674,410	1,842,594	1,936,637	1,965,119	2,075,330	2,143,000
Venezuela	56,258,426	62,979,666	70,503,375	69,343,100	78,611,400	89,456,000	94,738,000
Burma	(c)	(c)	44,528	35,118	66,902	100,414	100,470
China (d)	65,600	52,400	80,000	100,000	135,000	109,000	100,000
Formosa	2,000	2,600	3,000	3,000	3,000	3,000	3,000
Indonesia (b)	306,069	1,197,425	4,257,638	5,839,472	6,312,315	7,327,145	8,388,780
Iran	19,189,551	20,192,419	24,871,058	26,807,000	31,750,000	e16,176,600	(d)1,250,000
Iraq	4,712,235	4,759,387	3,426,482	4,116,267	6,544,913	8,548,800	18,553,300
Japan	186,600	178,300	157,000	191,400	289,000	327,000	298,000
Saudi Arabia	7,992,250	11,980,260	18,751,200	22,820,783	26,196,852	36,608,585	39,870,805
Turkey	—	—	2,000	14,522	16,700	18,800	21,354
TOTAL	370,960,000	406,360,000	454,520,000	444,130,000	489,700,000	542,910,000	560,080,000
WORLD'S TOTAL	377,390,000	416,490,000	469,860,000	467,350,000	521,060,000	589,090,000	618,350,000

(b) For conversion rate for 1946 and 1947 see footnote (b) on previous page.

(c) Included under British Countries.

(d) Estimated.

(e) Anglo-Iranian Oil Co. only.

PRODUCTION OF NATURAL GASOLINE

(Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Canada	49,342	48,548	53,256	54,255	50,725	58,526	65,895
Trinidad (b)	21,250	20,570	20,700	19,260	19,485	22,845	23,239
India	111	70	—	—	—	—	—
FOREIGN COUNTRIES							
Poland	3,623	9,984	(a)	(a)	(a)	(a)	(a)
Roumania	128,810	113,689	(a)	(a)	(a)	(a)	(a)
Egypt	(a)	(a)	(a)	(a)	11,115	12,520	9,408
Cuba	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Mexico	(a)	(a)	(a)	(a)	158,000	(a)	158,500
United States	13,282,000	15,167,000	16,837,000	17,925,000	20,881,000	23,496,000	25,415,000
Argentina	8,505	7,698	9,340	8,301	(a)	(a)	(a)
Colombia	(a)	(a)	(a)	(a)	(a)	(a)	90,646
Ecuador	4,700	(a)	(a)	(a)	(a)	(a)	15,240
Peru.. .. .	106,468	104,114	110,675	110,884	110,020	119,126	(a)
WORLD'S TOTAL (c)	13,760,000	15,630,000	17,320,000	18,433,000	21,400,000	24,000,000	26,000,000

(a) Information not available.

(b) About half the production is blended with crude petroleum at field storage.

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

PRODUCTION OF NATURAL GAS*

(Million cubic feet)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Union of South Africa	(a)	9	11	12	12	13	12
Barbados	7	18	57	69	74	106	154
Canada	47,900	52,657	58,603	60,457	67,822	79,461	95,790
Trinidad	27,170	29,617	30,697	32,287	32,312	31,725	31,503
Brunei (c)	(b) 92	565	1,257	1,665	1,829	1,752	1,780
FOREIGN COUNTRIES							
Austria	1,625	1,854	1,833	2,098	1,769	1,699	1,683
France	3,891	5,191	6,170	8,059	8,673	9,969	9,408
Germany (Federa.) ..	3,860	2,746	2,377	1,922	2,386	2,715	3,399
Hungary	3,221	3,560	4,136	4,414	(a)	(a)	(a)
Italy	2,264	3,285	4,126	8,808	17,997	34,488	50,664
Poland	5,153	5,236	(b) 9,147	(a)	(a)	(a)	(a)
Roumania	47,844	41,530	(a)	77,693	(a)	(a)	(a)
Yugoslavia	200	411	293	294	511	474	489
Morocco (French) ..	—	—	—	—	—	—	13
Mexico	27,122	35,258	37,361	41,954	59,244	83,950	93,273
United States	4,030,605	4,582,173	5,148,020	5,419,736	6,281,048	7,457,359	8,004,800
Argentina	19,852	20,577	21,371	23,793	(a)	(a)	(a)
Ecuador	2,338	3,072	3,750	(a)	(a)	(a)	(a)
Peru	(a)	(a)	(a)	(a)	(a)	28,885	(a)
Uruguay	150	104	16	20	27	36	(a)
Venezuela (e)	331,394	402,589	470,393	502,741	557,111	673,112	737,177
China (d)	2,157	1,928	(a)	(a)	(a)	(a)	(a)
Indonesia	(a)	848	13,031	17,777	22,088	27,930	38,007
Saudi Arabia	(a)	(a)	(a)	20	49	43	46

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

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

(a) Information not available.

(b) Estimated.

(c) Total production amounted to 1,000 in 1946; 8,933 in 1947; 19,837 in 1948; 20,483 in 1949 and 26,615 in 1950.

(d) Partial production only.

(e) Total production.

PRODUCTION OF ASPHALT ROCK

(Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES							
France	31,244	35,776	44,008	52,834	82,270	70,501	(a)
Germany	(a)	(a)	(a)	(a)	97,478	114,302	111,952
Italy	201,246	245,838	243,487	235,577	251,505	260,750	214,437
Switzerland	10,173	9,346	(a)	(a)	(a)	(a)	(a)
Angola	7,340	7,294	11,958	14,764	7,301	17,482	21,281
Belgian Congo	(a)	(a)	(a)	(a)	(a)	128	171
United States (sales) ..	694,158	897,089	967,861	1,027,617	1,057,746	1,230,745	1,402,409
Indonesia	2,408	195	(a)	(a)	(a)	(a)	(a)
Philippine Republic ..	—	—	3,050	44,500	51,983	29,842	27,923
Syria	(a)	16,000	16,258	16,925	14,458	14,115	9,874

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

(a) Information not available.

PRODUCTION OF NATURAL ASPHALT, ETC.

(Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Trinidad	93,851	87,346	128,993	145,160	132,846	154,705	170,595
FOREIGN COUNTRIES							
Albania (estimated) ..	9,000	14,000	(a)	(a)	(a)	(a)	(a)
Spain	2,560	4,507	4,709	7,982	10,455	7,594	(a)
Angola (Libollite) ..	118	1,000	200	(a)	(a)	(a)	(a)
French West Africa—							
Bitumen	—	—	—	—	—	—	200
Cuba (b)	2,048	(a)	(a)	(a)	(a)	(a)	(a)
Mexico (exports) ..	429	—	—	4	6	25	—
United States (sales)—							
Gilsonite	61,078	59,969	46,537	45,948	59,095	58,501	54,232
Wurtzilite	21	15	—	—	—	—	—
Argentina—							
Rafaelite	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Asphaltite	83,300	81,800	81,000	77,500	46,100	14,000	(a)

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

(a) Information not available.

(b) U.S. Bureau of Mines.

PRODUCTION OF OIL-SHALE

(Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Great Britain	1,316,533	1,110,817	1,380,719	1,402,694	1,452,287	1,411,707	1,401,191
Union of South Africa (b) ..	111,891	165,816	205,318	203,867	212,613	196,596	191,583
Australia	121,654	138,427	136,352	120,956	98,487	78,564	21,661
FOREIGN COUNTRIES							
Austria	2,598	1,586	1,122	894	628	985	753
France	340,043	409,238	436,465	487,249	551,035	372,604	335,200
Italy	5,018	3,158	5	(a)	(a)	(a)	(a)
Spain	106,129	67,745	74,465	73,321	49,951	52,285	156,111
Sweden (c)	1,843,937	1,326,960	1,376,567	1,235,787	1,532,970	1,463,447	(a)

NOTE.—Oil-shale is also produced in Germany, U.S.S.R. and Manchuria.

(a) Information not available.

(b) Torbanite. Years ended June 25 of that stated.

(c) Alum shale.

PRODUCTION OF PETROLEUM REFINERY PRODUCTS IN CERTAIN COUNTRIES*

(Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom (d)—							
Aviation and motor spirit	486,700	328,500	617,900	898,800	1,642,600	2,884,900	4,851,800
Other spirit	68,800	69,800	95,000	107,900	130,200	217,400	220,400
Kerosene	38,300	88,100	120,900	130,400	161,400	233,800	556,000
Gas oil and diesel oil ..	448,100	420,300	887,600	1,207,700	1,913,700	3,096,000	3,791,700
Fuel oil	427,400	580,300	1,358,100	2,316,900	3,772,500	7,834,400	10,294,800
Fuel used in refineries ..	199,700	278,500	399,100	491,100	595,800	771,400	1,162,100
Lubricating oil	312,600	340,100	362,900	372,200	422,000	409,500	368,500
Bitumen	459,529	429,200	526,700	555,700	637,200	750,300	715,800
Paraffin wax	11,910	15,228	14,100	14,200	15,600	15,300	14,738
Canada (b)—							
Aviation spirit	25,385	28,977	45,815	45,153	40,656	45,407	86,618
Motor spirit	3,310,244	3,493,187	3,950,359	4,676,207	5,204,227	6,000,013	6,692,477
Naphtha	85,468	93,322	94,877	118,989	118,914	122,334	103,038
Kerosene	430,782	343,921	463,897	510,215	713,957	1,013,040	922,628
do. Power	136,643	128,727	159,837	137,774	112,228	62,225	48,378
Gas oil, etc.	729,299	982,988	722,935	1,156,639	1,555,114	2,041,318	2,083,600
Fuel oil	2,243,299	2,272,026	2,867,406	2,895,424	3,129,582	3,446,737	4,018,872
do. (used in refineries)	446,359	479,804	511,571	545,238	603,312	649,900	(a)
Diesel oil	507,680	711,853	757,401	814,871	942,813	1,026,889	1,341,595
Lubricating oil	226,881	242,093	238,582	230,179	233,342	266,451	236,389
Grease	10,273	13,521	11,406	13,560	15,013	15,214	(a)
Coke	62,156	69,754	78,070	104,794	109,099	147,044	129,676
Asphalt	415,431	580,123	633,004	627,710	662,698	781,991	870,399
Trinidad—							
Aviation spirit	87,952	76,840	78,902	129,479	174,152	191,220	190,417
Motor spirit	457,523	620,267	616,499	580,529	569,187	630,404	650,819
White spirit	—	391	654	295	338	314	55
Kerosene	42,550	52,432	59,354	63,574	60,317	84,552	109,614
do. Power	369,687	198,345	167,534	195,042	163,891	347,512	473,404
Gas and diesel oil	2,018,091	625,782	561,193	581,609	599,359	690,670	722,235
Fuel oil		2,984,691	2,078,369	2,414,576	2,359,050	2,747,178	2,551,408
Lubricating oil and greases	238	307	352	345	367	356	395
Bitumen	39,818	45,606	61,098	54,847	66,361	71,725	98,219
Other finished products	—	17,233	17,319	24,906	37,897	45,961	73,477
Bahrain Islands (c)—							
Aviation spirit	17,654	2,935	—	—	—	—	—
Motor spirit	894,652	1,198,529	1,458,000	1,598,000	1,771,000	2,025,304	2,203,606
Kerosene	505,311	726,895	665,000	609,000	710,000	833,564	1,121,647
Gas oil and diesel oil ..	867,166	944,974	1,253,000	1,169,000	1,334,000	1,303,242	1,370,455
Fuel oil	1,793,629	2,776,980	3,334,000	3,356,000	2,983,000	3,834,619	3,967,478
Bitumen	(a)	(a)	(a)	45,000	68,000	72,477	93,879
India—							
Motor and other spirits ..	70,000	69,000	59,000	57,000	52,300	53,100	47,100
Kerosene	52,000	53,000	52,000	60,000	63,600	64,700	63,600
Gas and diesel oils	31,000	44,000	51,000	41,000	42,600	43,200	44,400
Fuel oil	37,000	1,000	2,000	15,000	17,100	18,600	23,200
Lubricating oils	17,000	15,000	18,000	20,000	13,400	23,300	16,000
Paraffin wax	29,000	32,000	35,000	32,000	26,700	40,200	35,200
Other refined products ..	5,000	3,000	5,000	4,000	3,000		

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

(a) Information not available.

(b) Including the amounts used at the refineries except in 1952. In the case of Fuel oil these amounts are shown separately.

(c) British Protected State.

(d) Revised.

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

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES (Cont.)							
Kuwait—							
Motor spirit	—	—	—	560	12,800	14,400	19,400
Kerosene	—	—	—	111	5,000	5,600	8,200
Gas and diesel oils ..	—	—	—	17,763	169,900	180,800	210,000
Fuel oil	—	—	—	73,428	665,900	752,500	814,800
Pakistan—							
Motor spirit	7,097	7,000	8,900	19,800	35,600	36,580	(a)
Kerosene	1,826	2,000	1,545	3,580	7,500	6,670	(a)
Diesel oil	1,578	5,000	5,240	5,180	8,770	10,700	(a)
Fuel oil	3,605	2,000	27,175	73,300	102,100	108,300	(a)
Lubricating oil ..	3,945	3,000	536	668	2,176	1,300	(a)
Greases	293	(a)	(a)	(a)	(a)	(a)	(a)
Paraffin wax	79	(a)	(a)	(a)	(a)	(a)	(a)
Sarawak—							
Motor spirit	230	126,000	264,097	317,980	389,857	429,067	474,935
Kerosene, power ..	—	(a)	299	317	317	252	312
Gas, diesel and fuel oils	—	843,000	1,388,653	1,393,513	1,464,440	1,505,536	1,612,462
Australia—							
Motor spirit	30,758	140,249	206,388	256,000	254,406	299,800	310,293
Kerosene	12,103	13,221	11,998	10,500	1,098	(a)	(a)
Gas oil	16,966	14,283	23,998	11,000	91,525	37,000	(a)
Diesel oil	—	—	1,950	73,000	34,201	115,000	(a)
Fuel oil	104,811	164,964	139,971	183,000	238,686	322,000	461,917
Lubricating oil ..	(b) 5,938	(b) 10,657	(b) 23,920	(b) 23,302	23,850	33,000	63,500
Grease (b)	3,719	4,735	9,589	9,589	5,103	(a)	(a)
Bitumen	—	—	32,424	52,000	60,255	79,000	(a)
FOREIGN COUNTRIES							
Belgium—							
Motor spirit	6,000	21,200	27,031	59,017	72,511	159,905	527,232
Kerosene	4,000	8,100	10,357	9,830	8,950	11,754	61,320
Fuel oil, etc.	31,000	72,700	148,468	203,244	236,180	577,863	1,739,352
Lubricating oil ..	5,000	5,000	6,058	6,673	5,961	4,667	4,237
Asphalt, etc.	34,000	(a)	66,906	53,721	79,161	79,880	83,753
Denmark—							
Gas oil	(a)	200	} 7,281	10,271	9,632	6,097	(a)
Diesel oil	(a)	6,100					
Lubricating oil ..	8,542	9,951	9,256	7,578	10,925	12,078	(a)
Grease	656	870	1,171	941	1,389	1,384	(a)
Asphalt	16,303	13,275	14,696	23,592	21,962	19,697	(a)
France—							
Motor spirit	740,167	1,252,481	1,685,813	2,422,030	3,084,900	3,795,000	4,581,300
Kerosene and white spirit	101,510	195,558	267,229	261,000	279,000	384,000	403,900
Gas oil	421,693	599,864	1,133,468	1,740,000	2,297,900	2,767,000	3,166,400
Fuel oil	880,284	1,811,008	3,839,844	5,364,000	6,627,400	8,918,000	10,464,000
Lubricating oil ..	67,310	171,646	213,949	200,000	288,000	343,000	341,300
Road oil	} 203,095	417,924	} 467,200	607,000	810,000	3,383	2,682
Coke						(a)	(a)
Paraffin wax	—	—	—	—	—	10,358	11,400
Germany (Federal) (c)—							
Aviation spirit	(a)	(a)	2,857	11,896	39,018	64,846	87,426
Motor spirit	87,400	70,800	96,756	407,326	957,227	1,495,150	1,692,447
Kerosene	(a)	(a)	54,347	71,434	83,569	50,547	48,193
Diesel oil	95,700	77,200	88,207	296,521	552,450	1,186,496	1,402,142
Fuel oil	(a)	(a)	54,728	169,319	459,234	750,444	830,969
Lubricating oil ..	144,100	161,700	196,586	300,309	540,600	365,981	378,627
Grease	(a)	(a)	(a)	(a)	4,387	4,118	5,170
Paraffin wax	(a)	(a)	(a)	(a)	12,016	25,751	23,686
Coke	(a)	(a)	(a)	(a)	32,121	37,066	52,312
Bitumen	30,600	47,600	123,153	197,737	382,449	407,108	452,741
Hungary—							
Motor spirit	200,000	(a)	(a)	(a)	(a)	(a)	(a)
Kerosene	121,000	(a)	(a)	(a)	(a)	(a)	(a)
Gas oil	97,000	(a)	(a)	(a)	(a)	(a)	(a)
Fuel oil	155,000	(a)	(a)	(a)	(a)	(a)	(a)
Lubricating oil ..	4,000	(a)	(a)	(a)	(a)	(a)	(a)

(a) Information not available

(b) Years ended June 30 of year stated.

(c) British and American zones only for 1946 and 1947.

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

Producing Country	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Italy—							
Motor spirit	11,953	296,026	407,654	696,880	968,598	1,336,284	1,733,052
Kerosene	5,993	122,120	185,379	225,348	294,415	461,991	603,086
Gas oil	16,885	304,111	505,836	760,557	1,023,248	1,386,126	1,772,007
Fuel oil and diesel oil ..	13,464	458,852	884,628	1,676,787	2,389,993	3,264,277	4,396,693
Lubricating oil	—	23,739	26,264	50,222	56,840	96,693	64,555
Coke	109	18,728	23,137	19,688	7,790	4,527	2,180
Bitumen	—	38,703	64,282	124,367	177,651	199,239	283,196
Turpentine substitute ..	—	6,865	3,426	8,160	10,679	12,620	14,261
Other products	—	7,821	9,843	16,494	26,362	43,656	103,980
Netherlands—							
Motor spirit	(a)	(a)	500,433	678,000	1,284,000	1,615,100	1,940,600
Kerosene			763	(a)	78,000	189,000	201,000
Diesel oil			186,829	513,000	968,000	1,409,000	1,603,000
Residual fuel oil			598,640	1,261,000	2,716,000	2,712,000	2,872,000
Lubricating oil			1,709	1,400	20,000	34,000	63,000
Coke			111,002	(a)	(a)	(a)	(a)
Asphalt			134,861	(a)	(a)	241,000	(a)
Poland—							
Motor spirit	33,796	46,582	(a)	(a)	(a)	(a)	(a)
Kerosene	17,150	29,138	(a)	(a)	(a)	(a)	(a)
Gas oil and light oils ..	29,562	33,303	(a)	(a)	(a)	(a)	(a)
Lubricating oil	19,279	28,073	(a)	(a)	(a)	(a)	(a)
Greases	2,182	3,393	(a)	(a)	(a)	(a)	(a)
Paraffin wax	8,268	8,138	(a)	(a)	(a)	(a)	(a)
Petroleum jelly	627	564	(a)	(a)	(a)	(a)	(a)
Asphalt	9,391	3,466	(a)	(a)	(a)	(a)	(a)
Coke	1,231	1,719	(a)	(a)	(a)	(a)	(a)
Portugal—							
Motor spirit	(a)	(a)	63,220	67,506	67,500	68,400	84,900
Kerosene			23,845	46,346	54,600	62,100	67,100
Gas and diesel oil			40,011	40,504	53,200	80,100	115,300
Fuel oil			112,972	119,581	102,400	141,200	197,200
Roumania—							
Motor spirit	1,085,793	1,068,687	(a)	(a)	(a)	(a)	(a)
White spirit	65,000	14,130	(a)	(a)	(a)	(a)	(a)
Kerosene	514,662	460,719	(a)	(a)	(a)	(a)	(a)
Gas oil (b)	507,000	443,285	(a)	(a)	(a)	(a)	(a)
Fuel oil (b)	1,456,000	1,262,992	(a)	(a)	(a)	(a)	(a)
Lubricating oil	100,000	81,237	(a)	(a)	(a)	(a)	(a)
Paraffin wax	4,900	6,995	(a)	(a)	(a)	(a)	(a)
Coke	4,900	8,774	(a)	(a)	(a)	(a)	(a)
Asphalt	49,000	35,982	(a)	(a)	(a)	(a)	(a)
Other products	8,722	14,198	(a)	(a)	(a)	(a)	(a)
Sweden—							
Motor spirit	55,972	52,907	51,308	68,631	139,685	144,707	153,700
White spirit	2,244	1,939	4,254	5,511	5,298	(a)	(a)
Kerosene	7,156	12,612	20,233	29,074	36,719	44,236	61,000
Fuel oil, etc.	373,346	408,645	365,065	304,544	695,900	748,590	800,000
Lubricating oil	5,802	10,208	16,055	18,735	20,444	20,099	16,200
Asphalt	17,730	56,428	75,930	69,276	89,578	74,520	(a)
Canary Islands—							
Motor spirit	145,000	185,000	185,000	116,837	187,585	133,000	206,938
Kerosene	20,000	20,000	30,000	15,747	37,287	35,000	60,282
Gas oil	50,000	55,000	140,000	136,238	154,976	117,829	127,713
Diesel oil	(a)	(a)	(a)	(a)	59,309	135,860	181,709
Fuel oil	200,000	200,000	270,000	224,196	319,516	398,235	446,777
Lubricating oil	(a)	(a)	(a)	(a)	6,171	2,120	(a)
Asphalt	10,000	10,000	10,000	21,399	56,462	44,727	46,477
Egypt—							
Motor spirit	193,225	195,215	191,524	209,694	191,247	205,122	161,000
Kerosene	65,845	70,424	97,456	114,190	147,508	207,048	184,000
Gas oil	749,567	759,505	1,313,572	1,600,504	37,866	39,949	97,100
Diesel oil					76,303	73,115	
Fuel oil					1,602,609	1,574,585	
Asphalt					79,110	88,451	

(a) Information not available.

(b) Excluding the amounts used at the refineries.

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

Producing Country	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Morocco (French)—							
Motor spirit	703	755	873	1,136	2,470	7,397	13,767
Kerosene	71	181	—	—	3,381	7,743	7,906
Gas and fuel oils ..	1,087	1,725	8,124	12,196	31,760	58,883	75,776
Cuba—							
Motor spirit	56,200	61,500	65,100	78,300	76,800	93,800	97,100
Turpentine substitute ..	1,000	—	(a)	(a)	(a)	(a)	(a)
Kerosene	27,500	34,700	38,200	50,000	64,500	71,300	80,600
Gas oil and diesel oil ..	58,800	62,800	59,400	64,900	56,200	69,100	92,800
Fuel oil	(a)	(a)	21,700	25,200	33,200	73,500	55,100
Lubricating oil	10,600	21,900	(a)	(a)	(a)	2,000	1,800
Asphalt	27,600	29,700	(a)	(a)	(a)	(a)	(a)
Mexico—							
Motor spirit	2,069,000	1,035,000	1,133,000	1,210,000	1,343,112	1,473,478	1,670,441
Kerosene	607,000	524,000	534,000	591,000	568,926	697,679	778,705
Fuel oil	3,757,000	3,829,000	3,704,000	4,105,000	3,969,772	4,346,142	4,620,496
Gas oil	768,000	756,000	696,000	752,000	713,108	766,833	901,963
Lubricating oil	46,000	33,000	38,000	31,000	26,265	35,529	33,614
Paraffin wax	26,400	13,200	11,500	10,600	11,900	10,500	10,700
Asphalt	360,000	263,000	149,000	150,500	126,400	74,100	66,800
Netherlands West Indies (b)—							
Aviation spirit	409,000	508,000	3,113,400	2,167,916	2,578,693	5,550,400	5,485,959
Motor spirit	4,194,000	4,295,000	2,676,540	3,221,279	2,817,375		
Kerosene	1,197,000	1,462,000	1,279,542	1,277,021	1,413,286	2,308,016	2,691,340
Gas oil	2,164,000	2,113,000	1,984,314	2,119,636	2,017,960	4,031,652	4,852,321
Diesel oil	1,943,000	2,317,000	3,630,522	2,710,883	5,527,281		
Fuel oil	19,632,000	22,245,000	24,752,339	23,348,490	27,269,736	26,733,078	28,607,528
Lubricating oil	194,000	132,000	237,133	303,969	239,088	271,796	343,987
Asphalt	114,000	211,000	73,379	203,510	341,642	11,168	45,379
United States—							
Aviation spirit	2,824,000	3,922,000	5,138,000	5,217,000	5,687,000	8,019,000	8,681,000
Motor spirit	86,200,000	92,343,000	100,488,000	105,065,000	111,688,000	122,635,000	127,567,000
Kerosene	13,285,000	14,052,000	15,516,000	13,001,000	15,083,000	17,276,000	16,838,000
Fuel oil distillates	39,063,000	42,357,000	51,655,000	46,069,000	54,126,000	64,559,000	70,728,000
Residual fuel oil	62,907,200	65,303,400	68,004,600	61,954,200	62,011,000	68,451,000	66,323,000
Lubricating oil	6,390,300	7,247,100	7,198,200	6,354,500	7,242,900	8,608,000	7,784,000
Paraffin wax	375,375	453,000	439,000	401,000	557,750	601,750	541,380
Coke	1,896,600	2,156,600	2,588,200	3,028,400	3,075,700	3,388,750	3,236,250
Asphalt	7,290,700	8,001,000	8,428,400	7,955,700	9,454,500	10,763,300	11,414,300
Road oil	928,000	1,125,000	1,259,000	1,224,600	1,102,200	970,500	1,113,300
Argentina—							
Aviation spirit	11,663	8,660	9,148	9,497	5,700	8,000	(a)
Motor spirit	954,872	1,076,561	1,202,311	1,201,300	1,480,400	1,387,800	1,506,000
Kerosene	427,600	445,600	(a)	435,400	578,000	661,700	738,000
Fuel oil	1,421,137	1,557,115	1,866,360	1,978,950	2,482,200	2,413,800	2,438,000
Gas oil	66,931	69,300	117,388	167,440	248,700	253,100	867,000
Diesel oil	276,203	284,797	378,722	385,470	501,400	537,900	
Lubricating oil	76,120	86,856	100,480	96,260	83,000	98,000	95,000
Bolivia—							
Motor spirit	12,623	15,518	20,223	38,283	37,800	28,100	28,600
Kerosene	3,044	3,146	4,243	5,251	9,200	7,900	9,400
Fuel oil	10,354	11,836	12,932	25,741	24,000	10,500	10,100
Diesel oil	2,414	2,855	3,527	5,793	5,900	5,200	6,500
Brazil—							
Motor spirit	14,575	14,087	14,361	(a)	(a)	31,798	54,400
Other spirit	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Kerosene	6,950	4,843	3,910	(a)	(a)	2,994	3,984
Gas oil	2,831	1,414	(a)	(a)	(a)	(a)	(a)
Diesel oil	8,665	10,438	16,174	(a)	(a)	8,087	11,294
Fuel oil	13,363	14,150	19,361	(a)	(a)	27,780	42,700
Lubricating oil	404	529	382	(a)	(a)	(a)	600

(a) Information not available.

(b) Exports for the years 1948 to 1952.

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

Producing Country	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Colombia—							
Aviation spirit	(a)	11,600	7,700	11,539	9,527	9,691	406
Motor spirit	141,000	184,000	155,000	207,483	221,891	227,941	254,369
Other spirit	2,500	2,200	4,000	(a)	(a)	(a)	(a)
Kerosene.. ..	23,000	31,000	30,500	40,903	42,965	46,080	50,775
do Power	5,000	7,000	1,400	1,523	6,283	6,605	15,655
Fuel oil	484,000	760,000	686,000	889,592	894,050	932,060	436,000
Diesel oil	31,000	42,000	48,400	65,663	75,624	66,172	88,427
Lubricating oil	7,000	6,000	6,000	9,687	10,946	7,438	9,556
Asphalt	15,000	19,000	22,000	29,500	24,800	21,735	24,969
Ecuador—							
Motor spirit	33,365	45,300	51,020	59,030	62,797	65,510	66,970
Kerosene.. ..	9,792	11,600	11,900	13,890	15,515	16,750	18,106
Diesel oil	16,431	26,400	34,500	36,970	33,100	32,580	40,400
Residual fuel oil.. ..	83,600	85,000	81,200	97,400	100,743	108,300	107,351
Lubricating oil	340	(a)	(a)	(a)	600	—	(a)
Peru—							
Motor spirit	393,973	411,191	456,418	(c) 453,273	(c) 441,874	(c) 491,126	611,400
Kerosene.. ..	109,961	95,286	114,154	138,025	150,980	189,627	206,600
Diesel oil	409,171	440,430	160,953	188,723	189,979	214,702	216,100
Fuel oil	514,096	421,010	817,901	820,130	789,270	845,939	856,000
Lubricating oil	8,017	9,924	9,761	9,556	10,647	9,932	11,300
Coke	179	221	289	2	15	15	(a)
Asphalt	5,835	11,551	9,747	13,318	11,283	21,575	(a)
Uruguay—							
Motor spirit	91,184	93,245	140,316	118,632	147,831	172,686	193,164
Kerosene.. ..	53,709	62,145	87,807	92,492	104,699	118,915	123,159
Gas oil	30,432	32,834	42,870	44,368	51,813	55,140	76,716
Fuel oil	137,456	193,301	410,998	411,879	398,495	482,686	577,563
Venezuela—							
Motor spirit	443,000	450,000	463,694	703,166	1,641,826	2,119,639	2,218,105
Kerosene.. ..	72,000	92,000	88,957	348,147	327,482	448,032	539,283
Gas oil	246,000	6,000	7,900	240,300	767,700	890,443	909,506
Diesel oil	736,000	937,000	926,000	946,900	1,612,100	2,471,689	2,810,850
Fuel oil	3,304,000	3,563,000	4,547,834	4,999,954	7,471,212	9,125,781	9,848,905
Lubricating oil	(a)	(a)	(a)	(a)	(a)	(a)	124,710
Asphalt	—	25,000	38,000	46,000	105,000	147,000	164,000
Burma—							
Motor spirit	—	2,798	8,756	7,980	15,998	22,378	18,110
Kerosene.. ..	—	445	5,168	5,309	11,328	18,000	21,374
Diesel oil	—	189	4,742	5,236	10,879	22,451	23,541
Fuel oil	—	7,338	18,573	13,330	22,637	31,313	29,044
Indonesia—							
Aviation spirit	(a)	(a)	(a)	121,540	153,460	228,245	369,318
Motor spirit	(a)	339,000	(a)	1,867,998	1,967,464	2,139,537	2,189,616
Kerosene	(a)	205,000	(a)	779,454	865,291	1,015,120	1,123,327
Fuel oil, solar oil and diesel oil	(a)	981,000	(a)	3,427,331	3,981,656	4,623,965	5,166,777
Paraffin wax	(a)	(a)	(a)	40,851	43,745	90,599	99,753
Asphalt	(a)	10,700	(a)	26,201	27,226	27,033	28,813
Iran—							
Motor spirit, etc.	3,211,700	3,251,300	3,822,800	4,202,000	4,324,800	b 2,169,900	—
Kerosene, etc.	1,825,900	1,663,500	1,867,500	2,210,100	2,337,700	b 1,240,300	—
Gas, diesel and fuel oils..	11,768,400	12,087,300	13,778,200	15,310,800	16,147,400	b 8,116,900	—
Other products	94,200	171,000	223,400	221,100	242,900	(b) 112,800	—
Iraq—							
Motor spirit	46,800	59,600	69,600	66,000	68,600	78,900	81,100
Kerosene.. ..	56,400	61,600	67,100	73,500	79,500	86,500	89,100
Gas, diesel and fuel oils..	194,800	215,000	224,300	217,000	229,400	257,600	288,800

- (a) Information not available.
 (b) Anglo-Iranian Oil Co. only.
 (c) Revised.

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

Producing Country	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Israel—							
Motor spirit	647,000	647,000	159,000	—	30,300	107,100	146,400
Kerosene	361,000	347,000	86,000	—	26,500	96,600	106,800
Gas oil	647,000	687,000	169,000	—	38,900	118,600	125,400
Fuel oil	2,132,000	2,023,000	500,000	—	87,600	366,500	376,100
Bitumen	40,000	45,000	—	—	2,400	24,000	8,900
Japan—							
Motor spirit	21,498	19,006	14,687	18,686	292,678	574,927	1,001,504
Kerosene	20,139	20,407	23,373	20,791	60,915	99,416	88,944
Gas oil	7,259	9,412	8,153	12,731	95,811	259,757	358,380
Diesel oil	62,167	34,997	22,561	20,736	188,966	368,713	496,831
Fuel oil	9,987	594	25,913	25,418	537,829	848,115	1,606,150
Lubricating oils ..	42,805	35,541	35,214	38,983	138,669	270,886	204,672
Lebanon—							
Motor spirit	46,110	48,754	52,031	60,611	93,860	115,655	112,212
Kerosene	26,833	26,997	27,481	32,941	60,249	61,862	64,961
Gas oil	29,180	32,879	35,818	44,632	84,249	98,691	90,982
Fuel oil	118,091	128,785	136,404	144,255	234,844	262,042	116,559
Saudi Arabia—							
Motor spirit	735,600	1,046,200	1,242,900	1,252,555	940,129	1,393,748	1,407,409
Kerosene	—	150,000	351,400	319,948	375,101	595,041	635,883
Diesel oil	1,040,500	1,391,900	1,448,400	1,632,503	1,441,274	3,334,787	2,191,605
Fuel oil	1,985,300	2,411,800	2,794,200	2,686,132	2,032,083	3,557,106	3,757,553
Asphalt	—	—	—	—	4,789	27,970	32,204

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS*

(Domestic Produce)

(Long tons)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952							
BRITISH COUNTRIES														
United Kingdom—														
Aviation spirit (bunkers) (b)	14,740	37,944	46,309	54,020	65,115	73,577	81,452							
Motor spirit	6,271	78,340	20,607	53,710	97,892	115,525	356,601							
Other spirit	7,765	1,818	2,042	4,021	11,929	38,667	19,424							
Kerosene	500	4,039	2,089	17,183	28,496	38,343	109,572							
Gas oil	8,329	44,600	16,137	33,945	73,728	147,700	356,563							
Diesel oil	18	9	1	20,540	144,536	309,007	561,193							
Fuel oil	1,417	46,266	22,832	146,163	609,167	2,354,980	3,709,988							
do. (bunkers) (b)	1,683,192	1,957,462	1,983,254	2,031,746	2,228,369	2,964,318	3,451,551							
Lubricating oil	135,623	116,770	114,574	123,264	126,742	175,500	192,546							
Other refined oils	1,288	2,267	3,297	2,485	5,319	12,262	9,592							
Mineral jelly	474	113	112	218	267	326	257							
Paraffin wax	577	3,536	2,655	1,654	2,783	709	380							
Malta—														
Aviation spirit (bunkers) (b)	—	—	10,683	12,528	14,664	3,852	27,857							
Gas oil (bunkers) (b)	367	2,272	980	2,712	2,000	2,138	2,427							
Fuel oil (bunkers) (b)	4,751	11,119	11,236	8,919	9,530	9,559	10,916							
Anglo-Egyptian Sudan—														
Aviation spirit (bunkers)(b)	—	—	5,529	8,146	6,862	6,762	(a)							
Gold Coast (b)—														
Aviation spirit (bunkers)	} 19	1,604	{ 2,557	2,576	1,923	2,108	2,194							
Motor spirit (bunkers)								101	1	3	1	—		
Gas oil (bunkers)								(a)	(a)	733	891	1,207	1,201	23,092
Fuel oil (bunkers)								14,491	12,057	20,084	14,298	28,031	28,059	9,939
Kenya (d)—														
Bunkers (b)—														
Aviation spirit	} 1,121	4,060	{ 5,853	4,184	5,199	7,129	6,422							
Motor spirit								341	16	11	19	28		
Fuel oil								101,350	84,728	128,299	142,754	135,478	121,764	142,437
Lubricating oil								98	136	243	227	258	289	297
Mauritius—														
Fuel oil (bunkers) (b)	(a)	(a)	(a)	836	3,975	4,642	4,466							
Nigeria (bunkers)—														
Diesel oil (b)	} 819	2,470	{ 44	91	3	1,064	35							
Gas oil (b)								241	2,410	743	1,310	2,375		
Fuel oil (b)								2,945	10,991	3,115	8,594	6,782		
Sierra Leone (bunkers)—								—	—	—	—	248	—	—
Aviation spirit (b)	—	—	—	885	412	66	—							
Tanganyika (b)—														
Aviation spirit (bunkers)	—	—	1,376	610	897	503	763							
Fuel oil (bunkers)	—	10	19	9	119	668	1,428							
Uganda (b)—														
Aviation spirit (bunkers)	(e)	(e)	(e)	1,807	1,568	724	1,604							
Union of South Africa—														
Bunkers (b)—														
Motor spirit	260	2,656	4,564	3,994	4,041	(a)	(a)							
Diesel oil	49,106	80,169	87,263	115,299	160,061	(a)	(a)							
Fuel oil	180,360	195,961	318,661	343,725	370,044	(a)	(a)							
Asphalt and bitumen	68	955	3,618	3,295	2,871	2,337	(a)							
Canada (c)—														
Crude petroleum	—	35	98	—	—	48,826	203,494							
Motor spirit	33,052	23,300	28,762	6,621	406	698	105,190							
Kerosene, etc.	10,837	342	1,222	610	538	22	10							

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

(a) Information not available.

(c) Including Newfoundland from April 1, 1949.

(e) Included with Kenya.

(b) Foreign produce. See imports.

(d) Including Uganda up to 1948 inclusive.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES (Cont.)							
Canada (Cont.)—							
Fuel oil	84,490	113,028	264,962	105,273	2,668	897	551
do. (bunkers) .. .	906,000	1,057,000	925,936	943,150	863,645	956,111	(a)
Diesel oil (bunkers) .. .							(a)
Lubricating oil .. .	17,895	12,049	3,668	496	255	425	352
Other oils	848	1,605	3,008	1,673	1,675	277	50
Mineral wax	5,676	19,413	14,588	2,278	336	4,732	911
Petroleum coke .. .	13,018	24,480	29,041	19,322	60,985	51,462	50,440
Newfoundland (c)—							
Fuel oil (bunkers) (c) ..	20,257	27,816	74,289	(e)	(e)	(e)	(e)
British Guiana (b)—							
Aviation spirit (bunkers)	49	297	333	278	309	371	351
British West Indies—							
Bermuda—							
Bunkers (b) (d)—							
Aviation spirit .. .	(a)	(a)	11,438	18,425	20,136	23,768	30,394
Motor spirit .. .			281	217	189	—	—
Kerosene .. .			386	370	337	—	—
Fuel oil .. .			13,408	3,158	4,022	10,082	13,448
Diesel oil .. .			2,497	5,089	479	742	410
Lubricating oil .. .			22	13	4	3	7
Jamaica—							
Bunkers (b)—							
Aviation spirit .. .	3,015	1,348	(a)	(a)	(a)	(a)	(a)
Motor spirit .. .	9	24	4	(a)	(a)	(a)	(a)
Gas oil (c) .. .	24	—	(a)	674	15,894	(a)	(a)
Diesel oil (c) .. .	(a)	1,477	4,384	2,393	10,123	6,238	(a)
Fuel oil (c) .. .	19	5,550	26,496	42,554	75,221	52,658	(a)
Trinidad and Tobago—							
Crude petroleum .. .	12,869	125,911	298,525	280,803	335,048	268,364	279,057
Aviation spirit .. .	538,807	613,369	614,410	634,125	633,471	185,553	196,216
do. (bunkers) .. .						10,336	11,488
Motor spirit .. .	(g) 4,865	(g) 6,952	(g) 7,403	(g) 8,129	(g) 8,284	562,762	554,060
do. (bunkers) .. .	387,460	233,849	216,124	238,164	227,705	409	15,525
Kerosene—Power) .. .						313,745	481,789
do. (bunkers) .. .	(g) 67	(g) 137	(g) 178	(g) 181	(g) 199	18	4,319
Kerosene—other .. .	101,241	106,479	220,390	276,978	284,142	71,369	107,494
do. (bunkers) .. .						107	98
Gas oil .. .	(g) 28,139	(g) 42,450	(g) 57,685	(g) 42,190	(g) 27,396	369,501	323,671
do. (bunkers) .. .						30,384	41,786
Diesel oil .. .	507,693	777,339	1,135,084	1,373,827	1,337,684	110,217	95,333
do. (bunkers) .. .						147,816	210,518
Fuel oil .. .	1,175,161	1,212,682	1,028,550	1,177,823	1,084,217	1,417,279	1,145,397
do. (bunkers) .. .	46	248	115	131	65	1,192,228	1,281,811
Lubricating oil .. .	9,302	7,479	9,096	11,938	16,927	102	110
Road oil .. .	—	41	16	27	—	22,739	14,604
Asphalt—							
Crude .. .	—	32,364	41,988	47,962	46,659	38	240
Dried .. .	26,563	24,295	49,369	29,393	23,433	45,557	46,120
Asphalt cement .. .	23,241	26,351	60,896	45,480	62,304	39,473	58,440
Bituminous asphalt ..	40,451	—	—	—	—	73,516	109,900
Falkland Islands—							
Fuel oil (bunkers) (b) ..	4,001	10,772	2,305	1,000	19,281	17,772	31,409
Aden—							
Fuel oil (bunkers) (b) ..	694,861	960,132	1,575,539	2,138,491	2,720,861	2,243,935	2,622,960
Bahrain Islands (f)—							
Aviation spirit .. .	46,838	5,407	12,699	14,207	19,555	24,795	2,200,215
Motor spirit .. .	893,762	1,193,854	1,448,023	1,562,756	1,704,725	1,963,355	
Kerosene .. .	507,404	697,114	674,490	595,288	669,190	811,855	1,074,630
Diesel oil (incl. bunkers)	860,019	968,496	1,191,181	1,180,995	1,277,940	1,259,165	1,302,310
Fuel oil (incl. bunkers)	1,798,609	2,756,799	3,231,716	3,400,630	2,903,215	3,823,700	4,028,995
Asphalt .. .	—	—	14,411	42,639	66,690	66,530	(a)

(a) Information not available.

(b) Foreign produce. See imports.

(c) Amounts imported for bunkers. The amounts actually shipped are not available.

(d) Including bunkers for military forces.

(e) Years ended March 31 of year following that stated. Included with Canada from April 1, 1949.

(f) British Protected State.

(g) Bunkers.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES (Cont.)							
British Borneo—							
Brunei—							
Crude petroleum (g) ..	184,407	1,689,963	2,641,516	3,200,400	4,011,463	4,895,559	4,990,194
Natural gas (1,000 cubic feet)	(a)	893,344	1,260,126	1,663,516	1,822,776	1,744,904	1,669,740
Sarawak—							
Crude petroleum (b) ..	(c) 219,418	706,675	1,169,665	1,768,681	2,356,997	3,206,152	3,077,254
Motor spirit	(c) —	48,879	122,699	160,136	228,295	234,642	283,262
Kerosene	(c) 26	25,351	—	189	218	—	—
Diesel oil etc.	(c) —	854,841	1,307,533	1,340,139	1,415,875	1,426,524	1,481,583
do. (bunkers)	(c) —	36,527	31,812	43,678	54,569	80,280	109,843
Lubricating oil	(c) —	1	—	—	—	—	—
Ceylon (bunkers) (d)—							
Gas oil	—	—	55	333	1,311	2,231	1,320
Diesel oil	54,524	52,096	65,114	83,531	78,849	71,145	63,485
Fuel oil	239,560	247,564	314,897	449,761	479,298	513,746	477,744
Lubricating oil	128	96	158	233	173	200	193
Cyprus (d)—							
Aviation spirit (bunkers)	(a)	(a)	(a)	(a)	(a)	3,807	3,684
Hong Kong (re-exports)—							
Motor spirit	49,338	74,506	57,333	55,968	52,503	15,283	3,271
Kerosene	79,174	54,143	41,372	37,912	26,299	7,556	3,023
Diesel oil and gas oil ..	} 26,555	} 56,741	} 63,316	} 74,662	} 55,297	} 13,213	} 5,653
Fuel oil							
Lubricating oil	6,022	7,244	(a)	(a)	(a)	(a)	479
Greases	109	114	(a)	(a)	(a)	(a)	40
Petroleum jelly	1,386	319	484	1,203	1,217	627	40
Paraffin wax	1,055	1,891	3,863	6,997	9,308	2,559	728
Asphalt and bitumen ..	(a)	(a)	(a)	(a)	(a)	(a)	381
India—							
Aviation spirit (bunkers)—							
Domestic produce	—	—	—	—	247	2,941	852
Foreign produce	11,336	17,703	6,622	8,972	11,417	6,117	13,779
Motor spirit	290	—	—	—	—	—	74
Fuel oil (bunkers) (d) ..	198,808	95,518	22,412	22,897	40,231	32790	80,344
Paraffin wax	16,409	15,850	11,973	13,232	19,816	28,693	21,222
Kuwait (f)—							
Crude petroleum	768,441	2,113,646	6,224,815	12,010,102	15,797,037	26,623,054	35,771,961
Export distillate	—	—	—	11,344	161,887	177,990	191,962
Diesel oil	—	—	—	—	24,940	30,495	(e) 184,419
Fuel oil	—	—	—	—	108,378	167,892	(e) 789,985
Malaya (including re-exports)—							
Aviation spirit	(a)	(a)	115,657	111,436	80,945	126,726	128,910
do. do. (bunkers)	(a)	5,805	6,926	9,221	10,916	12,699	11,939
Motor spirit	102,815	136,379	182,567	300,993	514,384	604,438	735,916
Kerosene	90,320	50,088	105,890	89,978	113,366	143,776	235,233
do. Power	(a)	(a)	13,787	32,662	52,533	126,859	139,555
Gas oil	(a)	(a)	50,946	72,830	157,814	234,463	301,712
Diesel oil	(a)	(a)	219,404	328,364	445,221	304,692	443,777
Fuel oil	1,01,038	236,902	274,268	609,044	577,081	377,922	423,425
Fuel and diesel oil (bunkers)	(a)	278,250	349,055	469,891	595,500	900,256	1,298,228
Lubricating oil	1,714	5,249	7,023	4,778	4,191	4,655	4,097
Other petroleum products	6	33	23	65	131	973	238
Paraffin wax	81	23	151	356	361	3,741	1,280
Asphalt and bitumen ..	424	403	1,485	1,307	1,225	1,154	5,959

(a) Information not available.

(c) April 15 to December 31 only.

(e) Including bunkers.

(g) Exported to Sarawak for refining. Some, however, is re-exported from that country.

(b) Including crude petroleum imported from Brunei.

(d) Foreign produce. See imports.

(f) British Protected State.

Some, however, is re-exported from Sarawak and shown as exports from

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952	
BRITISH COUNTRIES (Cont.)								
Australia—								
Crude petroleum ..	13	1,948	—	7	—	—	—	
Aviation spirit (bunkers) (f) (e) ..	959	1,902	3,265	4,095	4,283	4,827	10,304	
Motor spirit ..	1,435	690	2,233	(f) 1,309	(f) 1,399	4,315	7,210	
Kerosene ..	512	1,163	208	1,912	4,978	3,633	6,883	
Lubricating oil ..	643	2,214	203	2,249	2,551	4,038	4,328	
Residual and solar oils ..	77	471	1,364	5,180	7,640	7,967	18,127	
Fuel oil (bunkers) (f)—								
Domestic produce ..	8,804	58,562	32,974	52,598	39,231	38,554	29,935	
Foreign produce ..	681,117	306,569	309,824	385,298	360,408	431,590	432,110	
Paraffin wax, etc. ..	198	82	11	7	6	3	3	
Fiji—								
Aviation spirit (bunkers) (e)	221	2,652	3,371	3,751	3,781	3,355	3,739	
Fuel oil (bunkers) (e) ..	6,370	3,795	5,334	6,138	548	627	725	
Diesel oil (bunkers) (e) ..			979	1,791	627	2,709	1,085	
New Zealand—								
Aviation spirit (bunkers) (e)	(a)	(a)	(a)	(a)	4,264	4,588	(a)	
Diesel oil (bunkers) (e) ..	(a)	(a)	(a)	(a)	2,983	10,577	(a)	
Fuel oil (bunkers) ..	(e) 39,102	(a)	(d) 42,867	(d) 21,709	(e) 33,100	(e) 39,090	(d) 39,058	
Lubricating oil (bunkers) (e)	401	(a)	325	687	723	623	836	
Irish Republic (g)—								
Aviation spirit (bunkers) (e)	(a)	(a)	(a)	2,831	2,769	3,669	3,024	
Fuel oil (bunkers) (e) ..	(a)	(a)	(a)	1,780	3,580	5,613	5,437	
FOREIGN COUNTRIES								
Austria—								
Crude petroleum ..	(a)	5,015	527	—	—	—	—	
Kerosene ..	(a)	—	993	9,932	—	—	—	
Gas oil ..	(a)	204	1,980	15,367	7,736	2,669	14,053	
Fuel oil ..	(a)	—	18,123	11,554	39,565	16,703	13,941	
Lubricating oil, etc. ..	(a)	—	496	—	282	3,249	330	
Belgium-Luxemburg E.U.—								
Crude petroleum ..	(a)	763,411	660,840	154	—	16,275	6,697	
Motor spirit ..				5,019	6,741	31,473	31,017	262,529
Kerosene ..				45	58	1,937	1,340	26,529
Gas oil ..				—	70,331	37,594	26,475	261,034
do. (bunkers) (b) ..				—	17,710	20,888	23,388	57,093
Fuel oil, etc. ..				—	33,416	14,593	121,671	806,525
do. (bunkers) (b) ..				—	234,800	200,692	416,856	407,600
Lubricating oil ..				—	48,723	59,649	62,299	49,131
do. (bunkers) (b) ..				—	3,739	2,690	3,624	3,723
Other heavy oils ..				—	1,087	31	128	559
Petroleum jelly ..	—	76	21	117	229	95		
Paraffin wax ..	—	264	699	93	83	28		
Ozokerite and ceresin ..	—	236	291	267	135	20		
Petroleum coke ..	—	7,288	6,706	2,017	2,008	—		
Asphalt and bitumen ..	—	910	129	202	347	495		
Residual asphalt, etc. ..	—	68	326	378	634	4,564		
Pitch ..	—	37,870	29,386	34,038	17,719	24,251		
Czechoslovakia—								
Lubricating oil, etc. ..	1,252	1,261	(c) 166	(a)	(a)	(a)	(a)	
Paraffin wax ..	2	52	(c) 62	(a)	(a)	(a)	(a)	
Asphalt products ..	1,006	404	(c) 414	(a)	(a)	(a)	(a)	
France—								
Crude petroleum ..	1	84	3,441	11,223	8,620	7,361	16,103	
Motor spirit ..	107,054	184,600	198,493	542,710	609,744	716,966	1,445,521	
Kerosene ..	3,852	46,751	48,361	76,068	87,672	135,654	291,309	
Lubricating oil ..	4,507	10,799	3,423	7,838	24,346	37,594	35,469	
Gas oil ..	31,866	61,179	188,284	806,350	1,332,154	1,384,464	1,704,276	

(a) Information not available. (b) Bunkers for foreign ships only. (c) January to October only.
 (d) Foreign produce. Excluded from imports. (e) Foreign produce. See imports. (f) Years ended June 30 of that stated.
 (g) In addition re-exports of aviation spirit, presumably to the "Shannon Free Airport," were as follows (long tons):
 1947—21,700; 1948—31,008; 1949—30,731; 1950—38,743; 1951—36,116; 1952—43,236.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
France (Cont.)—							
Fuel oil	180,335	250,140	439,393	747,324	1,101,330	2,374,421	3,332,501
Road oil, etc. .. .	8,082	21,578	(a)	(a)	(a)	166,147	154,204
Petroleum jelly .. .	22	42	29	24	73	55	38
Paraffin wax .. .	75	372	14	442	2,411	957	1,245
Ozokerite, ceresin, etc. .. .	15	19	20	33	7	75	53
Petroleum coke, etc. .. .	624	1,567	148	25	171	1,239	26
Asphalt and bitumen .. .	788	2,610	2,743	4,336	12,144	11,429	14,229
Germany (Federal)—							
Crude petroleum .. .	(e) —	(e) 39,000	(e) 280,000	—	1	—	—
Motor spirit .. .	(e) 260,000	(e) 359,000	(e) 448,000	6	202	79,116	130,697
Kerosene .. .	—	—	—	—	—	241	1,745
Gas oil .. .	—	—	—	1,131	154	27	3,586
Fuel oil .. .	—	—	—	63,579	77,796	18,744	53,743
do. (bunkers) (b) .. .	(a)	(a)	—	20,646	19,424	76,589	84,532
Lubricating oil .. .	—	—	—	90	3,776	6,706	59,942
Paraffin wax .. .	—	—	—	6	1,393	3,521	5,084
Ozokerite, etc. .. .	—	—	60	425	1,376	1,365	408
Asphalt .. .	—	—	249	4,002	1,028	904	1,455
Hungary—							
Crude petroleum .. .	34,857	—	—	—	—	—	—
Kerosene .. .	40,473	—	—	—	—	—	—
Gas oil .. .	29,889	236,700	(a)	(a)	(a)	(a)	(a)
Fuel oil .. .	29,458	—	—	—	—	—	—
Lubricating oil .. .	65,962	—	—	—	—	—	—
Italy—							
Motor spirit .. .	—	103	2,900	100,039	242,432	430,841	773,408
Kerosene .. .	—	3	4,612	61,217	111,806	174,601	311,958
Lubricating oil .. .	—	6	8	33	6	735	5,326
Gas oil (d) .. .	(a)	1,642	3,498	75,003	157,146	370,500	654,885
Fuel oil .. .	—	216	2,126	24,646	264,481	309,878	933,271
do. (bunkers) .. .	—	413	1,400	12,464	29,728	61,692	126,374
Paraffin wax .. .	—	1	10	8	5	—	33
Asphalt and bitumen .. .	—	836	4,838	6,385	15,604	8,342	13,553
Pitch .. .	(a)	(a)	(a)	(a)	(a)	9,760	27,459
Netherlands—							
Crude petroleum .. .	4	1	—	—	—	17	16
Aviation spirit (bunkers) .. .	(a)	(a)	19,651	24,720	24,364	28,820	19,052
Motor spirit .. .	1,231	23	68,273	238,831	605,175	1,039,301	1,479,346
Kerosene .. .	3	1	—	—	13,398	55,418	78,165
Gas oil .. .	168	3,290	30,437	235,914	599,767	717,037	760,331
do. (bunkers) (c) .. .	48,596	98,521	124,406	188,500	257,769	319,874	363,650
Fuel oil .. .	—	10,235	94,471	546,972	1,500,996	1,219,354	1,368,174
do. (bunkers) (c) .. .	78,443	312,056	320,681	384,558	537,757	908,138	908,209
Lubricating oil .. .	95	610	7,890	20,248	55,036	62,985	56,165
Greases .. .	6	34	(a)	(a)	6,235	7,178	6,088
Petroleum jelly .. .	15	122	590	311	1,624	2,453	1,732
Paraffin wax .. .	48	66	268	634	4,518	2,588	3,354
Ozokerite and ceresin .. .	221	346	2,203	1,789	1,533	830	373
Asphalt .. .	35,235	59,144	59,660	59,381	96,506	129,518	160,241
Natural asphalt .. .	—	—	25	—	397	—	—
Petroleum coke .. .	—	1,149	3,868	798	644	98	—
do. (bunkers) .. .	—	24,965	36,309	18,950	15,773	3,576	—
Norway—							
Motor spirit .. .	31	94	124	69	61	333	714
Kerosene .. .	5	11	17	24	30	2	3
Fuel oil and solar oil .. .	570	2,668	26,629	1,440	84	—	—
Residual oils, etc. .. .	34	90	82	37	54	(a)	(a)
Portugal—							
Motor spirit .. .	9	15	6	—	550	307	19,235
Kerosene .. .	12	8	4	28	137	58	574
Fuel oil (bunkers) (b) .. .	342	604	5,965	2,238	50	110	781
Lubricating oil, etc. .. .	65	191	215	73	203	494	310
Other oils .. .	12	4	4	4	2	10	18

(a) Information not available.

(b) Bunkers on foreign ships only.

(c) Including imported oil.

(d) Including bunkers.

(e) Bizonal area.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952												
FOREIGN COUNTRIES (Cont.)																			
Roumania—																			
Crude petroleum	5,835	(a)	(a)	(a)	(a)	(a)	(a)												
Motor spirit	1,051,462	876,755	(a)	(a)	(a)	(a)	(a)												
Kerosene	326,466	270,925	(a)	(a)	(a)	(a)	(a)												
Fuel oil and gas oil (d) ..	785,195	626,667	(a)	(a)	(a)	(a)	(a)												
Other oils	57,889	55,998	(a)	(a)	(a)	(a)	(a)												
Paraffin wax	3,231	5,912	(a)	(a)	(a)	(a)	(a)												
Asphalt	5,112	6,820	(a)	(a)	(a)	(a)	(a)												
Petroleum coke	10	—	(a)	(a)	(a)	(a)	(a)												
Spain—																			
Motor spirit	5,008	3	65	227	151	114	119												
Kerosene	5	8	—	4	—	—	—												
Diesel oil	—	5	—	—	144	—	10												
Lubricating oil	14	98	110	33	99	5	2												
Asphalt	252	57	41	—	—	—	—												
Sweden—																			
Motor spirit	3,084	366	1,007	13,757	18,579	636	1,440												
Kerosene	9	129	—	1	1,335	21	54												
Fuel oil and gas oil	12,250	20,016	—	2	17,126	9,895	2												
Lubricating oil	994	338	300	465	342	381	281												
Other oils	403	931	143	—	7	139	—												
Paraffin wax	66	—	—	—	42	13	286												
Petroleum jelly	22	25	—	—	—	10	—												
Ozokerite and ceresin ..	50	19	—	—	15	-10	—												
Asphalt	69	182	76	1,470	113	117	24												
Pitch	1,393	2,710	4,107	13,229	23,214	11,956	6,416												
Switzerland—																			
Motor spirit	83	407	1,025	106	3,381	3,093	590												
Fuel oil	1	—	—	—	—	—	—												
Lubricating oil and grease	63	221	275	123	102	69	102												
Petroleum jelly	67	34	12	16	2	36	10												
Asphalt and bitumen ..	238	702	2,961	3,378	3,013	3,091	2,362												
Paraffin wax and ceresin	2	88	72	239	14	8	5												
Yugoslavia—																			
Kerosene	} (a)	(a)	(a)	(a)	{ 2,963	1,344	2,313												
Gas oil								} (a)	(a)	(a)	{ 10	4,544	25,878						
Fuel oil														} (a)	(a)	(a)	{ 22,568	43,239	47,675
Bitumen																			
Algeria—																			
Crude petroleum	(a)	—	—	—	1,472	6,557	25,360												
Motor spirit, etc.	379	604	44	107	5	11	36												
Kerosene	2	6	3	5	4	6	3												
Gas oil	46	16	4	2	13	2	32												
Fuel oil	147	6	133	5	6	70	403												
Fuel oil and gas oil (b) ..	45,214	271,240	393,981	400,786	(a)	692,730	631,645												
Lubricating oil	9	95	12	24	23	202	275												
Road oil, etc.	—	—	269	10	1,639	1,215	812												
Canary Islands (c)—																			
Petroleum products ..	127,962	272,628	272,102	386,380	461,144	400,873	(a)												
do. (bunkers)	283,107	658,798	1,267,542	1,386,538	1,520,175	1,445,003	(a)												
Ceuta (c)—																			
Petroleum products ..	22	52	812	—	—	312	(a)												
do. (bunkers)	11,054	53,762	133,414	214,400	69,205	380,081	(a)												
Egypt—																			
Motor spirit	—	12	59	760	1,012	882	970												
Kerosene	2	1	1	1	61	520	26												
Fuel oil, etc.	14	—	9	6	426	995	246												
do. (bunkers for foreign ships)	260,682	115,908	283,176	420,013	326,591	302,436	207,865												
Lubricating oil	—	—	996	2,078	905	74	(a)												
Asphalt, etc.	161,335	82,272	44,387	24,342	38,237	29,085	10,695												
Melilla—																			
Petroleum products ..	1,031	1,067	83	(a)	—	—	(a)												

(a) Information not available.
 (b) Bunkers of foreign produce.

(c) Foreign produce. See imports.
 (d) Including bunkers.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Morocco (French)—							
Crude, refined and residual	93	731	—	—	—	(a)	(a)
Cuba (including re-exports)—							
Natural asphalt	(a)	(a)	292	27	—	—	(a)
Mexico—							
Crude petroleum	430,001	449,278	1,558,805	864,230	1,673,450	1,024,152	1,769,355
Motor spirit	1,077	14,997	226,030	5,641	50,763	30,745	20,952
Kerosene	102,872	65,040	204,271	59,739	125,803	78,883	7,457
Fuel oil	597,935	349,581	809,252	277,736	322,206	1,183,979	298,192
do. (bunkers)	17,364	52,541	142,513	215,646	307,542	85,864	112,250
Gas oil	115,924	43,109	159,428	65,982	76,018	57,463	(a)
Lubricating oil	157	172	151	462	845	139	35
Asphalt (petroleum)	29,679	4,685	17,035	7,600	7,496	—	—
Natural asphalt	429	—	—	4	6	25	—
Netherlands West Indies—							
Crude petroleum	684,989	1,857,048	1,831,544	794,005	978,052	459,706	466,757
Aviation spirit	2,503,415	2,575,183	3,113,400	2,167,916	2,578,693	5,550,300	5,485,959
Motor spirit	2,173,681	2,246,914	2,676,540	3,221,279	2,817,375	2,308,016	2,691,340
Kerosene	895,677	855,198	1,279,542	1,277,021	1,413,286	4,031,652	4,852,321
Gas oil	1,438,569	1,876,765	1,887,831	2,074,930	1,983,212	26,733,078	28,607,528
do. (bunkers)	42,064	40,658	96,483	44,706	34,748	271,796	343,987
Diesel oil	1,969,486	1,958,583	2,730,150	1,992,272	1,815,920	11,168	45,379
do. (bunkers)	2,622,108	823,809	900,372	718,611	3,711,361	—	—
Fuel oil	18,879,251	20,764,950	21,498,212	21,071,597	25,049,798	—	—
do. (bunkers)	2,000,160	2,441,952	3,254,127	2,276,893	2,219,938	—	—
Lubricating oil	82,805	40,625	237,133	303,969	239,088	—	—
Asphalt	71,292	87,293	73,379	203,510	341,642	—	—
United States—							
Crude petroleum	6,081,946	6,551,731	5,676,652	4,724,037	4,974,820	4,086,210	3,818,297
Aviation spirit	178,325	396,702	566,001	841,073	595,754	1,149,964	1,447,539
Motor spirit	4,181,634	3,766,271	2,496,977	2,358,004	1,287,573	2,255,152	1,481,933
Other finished light products	50,858	91,620	163,976	122,905	113,661	164,110	184,012
Natural gasoline	351,870	554,447	466,597	500,729	114,591	188,303	213,825
Kerosene	1,041,576	851,977	372,059	231,820	166,796	763,270	907,091
Gas oil and distillate fuel oil	3,814,817	3,644,364	2,600,532	1,347,674	1,470,024	2,787,503	4,380,243
Residual fuel oil	847,812	1,203,327	1,362,498	1,246,596	1,733,237	3,517,972	3,273,737
Fuel oil (bunkers)	8,749,096	(a)	(a)	(a)	(a)	(a)	(a)
Lubricating oil	1,511,844	1,948,399	1,769,820	1,698,425	1,882,764	2,288,350	2,107,217
Transformer oil	17,359	26,070	21,337	27,202	23,539	34,353	27,886
Greases	43,754	79,800	52,360	52,382	51,000	59,330	59,656
Paraffin wax	89,609	138,487	124,242	128,837	139,049	155,358	121,684
Petroleum jelly	41,827	41,618	28,428	29,275	33,487	49,746	26,047
Asphalt and bitumen, natural	17,345	21,341	12,216	14,885	16,801	22,248	17,791
Other asphalt, etc.	352,626	496,383	241,034	209,336	127,883	163,612	346,053
Petroleum coke	344,630	369,565	447,549	436,004	436,539	790,202	743,531
Liquefied petroleum gases	98,620	106,940	91,447	107,243	136,130	175,269	199,478
Natural gas (million cu. ft.)	13,337	8,035	5,645	5,170	23,474	19,573	21,691
Argentina—							
Motor spirit	1,125						
Kerosene	362						
Gas oil	123						
Fuel oil	1,780						
Diesel oil	497	(a)	(a)	(a)	(a)	(a)	(a)
Lubricating oil	689						
Grease	3						
Asphalt	524						
Bitumen (Rafaelite)	3,298						
Bolivia—							
Crude petroleum	14,926	14,887	14,182	7,376	3,066	(a)	(a)
Fuel oil	2,810	253	275	—	(a)	(a)	(a)

(a) Information not available.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Chile—							
Crude petroleum ..	—	—	—	—	55,000	94,000	107,800
Colombia—							
Crude petroleum ..	2,446,810	2,799,386	2,690,231	3,452,409	4,038,410	4,605,281	(a)
Motor spirit ..	26	} (a)	(a)	(a)	(a)	(a)	(a)
Kerosene ..	2						
Fuel oil, etc. ..	67						
Ecuador—							
Crude petroleum ..	178,272	133,874	199,493	130,816	(a)	(a)	(a)
Peru—							
Crude petroleum ..	170,277	281,143	246,033	311,188	368,078	328,737	337,452
Aviation spirit ..	} 363,341	} 305,238	} 296,053	} 19,632	} 26,359	} 33,433	} 19,233
Motor spirit (b) ..							
Kerosene (b) ..							
do. Power (b) ..	63,008	30,545	32,325	40,447	34,170	46,086	36,647
Gas oil ..	(a)	(a)	—	87,516	—	77,118	60,007
Fuel oil and diesel oil ..	373,207	} 306,159	} 331,615	} 287,024	} 237,349	} 215,185	} 294,909
do. (bunkers) ..	65,989						
Lubricating oil and grease	2,057	2,520	2,516	1,757	1,402	2,474	1,760
Uruguay—							
Motor spirit ..	(a)	(a)	13,000	11,000	(a)	3,000	5,600
Kerosene ..	(a)	(a)	600	1,300	(a)	(a)	100
Gas oil and diesel oil ..	(a)	(a)	21,000	23,000	(a)	(a)	(a)
Fuel oil ..	(a)	(a)	156,000	305,000	(a)	240,000	172,000
Venezuela—							
Crude petroleum ..	49,357,769	55,500,266	61,691,749	59,070,686	64,636,000	71,837,827	75,841,518
Motor spirit ..	231,314	161,660	57,609	223,787	970,000	1,276,699	1,438,167
Kerosene ..	29	25	(a)	36,138	11,500	186,558	266,687
Gas oil ..	273,838	299,090	213,451	331,597	396,000	} 2,457,636	} 2,735,114
Diesel oil ..	538,332	455,868	466,480	476,306	1,170,586		
Fuel oil ..	2,855,964	3,110,113	3,962,414	4,271,513	6,865,396	7,893,850	8,660,971
Indonesia—							
Crude petroleum ..	(a)	(a)	9,714	300	7,942	(a)	(a)
Motor spirit ..	1,607	118,600	992,164	1,725,900	1,735,264	1,780,896	(a)
Kerosene ..	6,873	98,200	399,636	554,300	540,527	571,459	(a)
Fuel and motor oils ..	} (a)	} (a)	} 2,387,200	} 3,321,900	} 3,437,023	} 3,490,698	} (a)
do. (bunkers) ..							
Lubricating oil ..	} (a)	} (a)	} 2,387,200	} 3,321,900	} 61,898	} (a)	} (a)
Greases ..							
Paraffin wax ..							
Asphalt ..							
Asphalt ..							
Turpene ..							
Iran—							
Crude petroleum ..	1,203,400	1,732,500	3,255,200	3,206,200	6,501,300	(c) 3,353,700	(a)
Motor spirit ..	3,198,400	2,935,600	3,655,500	3,964,800	4,080,900	(c) 1,799,300	(a)
Kerosene ..	1,917,600	1,698,900	1,851,000	2,117,200	2,283,500	(c) 1,085,400	(a)
Gas, diesel and fuel oils	11,179,900	10,869,900	13,480,100	14,769,500	15,767,300	(c) 7,458,100	(a)
Other products ..	71,600	136,000	185,700	195,600	202,400	(c) 89,000	(a)
Iraq—							
Crude petroleum ..	4,344,030	4,305,266	3,010,965	3,662,438	6,046,527	7,838,292	(a)
Motor spirit ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Kerosene ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Bitumen ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Israel—							
Motor spirit ..	380,318	} (a)	(a)	(a)	(a)	(a)	(a)
Kerosene ..	265,060						
Fuel oil, etc. ..	1,616,769						
Asphalt ..	21,955						
Saudi Arabia—							
Crude petroleum ..	4,053,200	6,712,700	12,700,200	16,549,500	20,859,641	29,116,148	20,859,641
Syria and Lebanon—							
Fuel oil ..	14	(a)	2,770	437	(a)	(a)	(a)
Asphalt and bitumen ..	597	(a)	—	1,444	(a)	(a)	(a)

(a) Information not available.

(b) Including bunkers.

(c) Anglo-Iranian Oil Co. only.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS*

(Less Re-exports)

(Long tons)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Crude petroleum ..	2,174,292	2,473,558	4,635,474	6,048,182	9,246,108	16,680,733	22,818,386
Aviation spirit (d) ..	106,727	54,322	276,615	372,391	249,615	356,447	400,973
Motor spirit ..	3,753,370	3,798,140	3,622,017	4,046,823	3,763,460	2,959,396	1,236,809
Other spirit ..	102,787	84,521	104,525	107,653	104,198	180,478	177,264
Kerosene—Power ..	1,445,255	709,252	888,667	919,341	811,970	839,740	878,887
do. —Other ..		469,673	590,867	653,656	601,391	978,692	591,096
Fuel oil (d) ..	3,565,113	2,930,924	5,112,805	2,947,351	2,162,309	2,152,689	1,096,312
Diesel oil ..	768,707	231,739	301,747	310,412	232,436	246,703	309,397
Gas oil ..	1,831,726	1,595,384	1,801,342	1,723,225	1,391,179	1,472,134	789,079
Lubricating oil ..	339,332	333,012	347,348	291,833	479,861	447,556	442,173
Mineral jelly ..	5,788	9,684	9,723	8,060	8,822	10,595	6,217
Paraffin wax ..	33,066	38,256	36,014	18,096	5,086	6,428	3,050
Other petroleum wax ..							
Ozokerite ..	24	178	329	17	94	12	11
Petroleum coke ..	(a)	6,958	7,222	13,069	9,131	9,449	9,766
Asphalt and bitumen (f)	26,182	30,504	44,007	48,909	54,365	56,924	56,595
Channel Islands—							
Aviation spirit ..	(a)	(g) 1,165	(g) 1,286	(g) 1,417	(g) 1,777	(g) 1,595	(a)
Motor spirit ..	11,452	14,587	14,352	16,611	16,900	16,732	(a)
Other spirit (g) ..	(a)	34	40	87	100	91	(a)
Kerosene ..	2,064	2,644	2,664	2,912	2,668	2,523	(a)
Gas and fuel oil ..	6,174	10,871	13,707	17,203	17,648	23,982	(a)
Lubricating oil ..	578	863	795	1,019	941	1,036	(a)
Greases (g) ..	14	26	21	23	23	20	(a)
Gibraltar (e)—							
Motor spirit, fuel oil, etc.	1,600	2,500	3,150	3,518	4,470	5,200	5,828
Kerosene ..	400	450	420	529	371	400	386
Malta—							
Aviation spirit (d) ..	—	—	19,913	22,945	13,026	13,549	30,135
Motor spirit ..	19,154	13,049	8,202	16,087	13,067	15,325	18,972
Kerosene ..	21,685	5,266	25,590	28,915	16,103	27,079	18,750
Fuel oil (d) ..	17,389	29,042	34,955	29,367	27,517	21,227	24,211
Gas oil (d) ..	8,832	8,440	8,997	8,060	9,728	14,955	14,773
Lubricating oil ..	—	1,018	674	546	660	1,074	619
Anglo-Egyptian Sudan—							
Aviation spirit (d) ..	18,556	25,523	35,245	36,707	39,492	11,990	22,444
Motor spirit (d) ..							
Kerosene ..	7,721	9,690	8,913	10,685	10,347	36,573	40,355
Gas oil ..	64,587	73,775	75,753	82,097	86,711	12,253	18,136
Diesel oil ..							
Fuel oil ..	2,352	2,998	3,906	4,160	2,732	13,115	14,770
Lubricating oil, etc. ..							
Asphalt, etc. ..	67	770	1,456	1,625	2,199	22,638	23,607
						87,322	88,583
						4,374	8,657
						3,639	6,982
Gambia—							
Aviation spirit ..	677	1,672	1	(c) 307	28	994	(c) 125
Motor spirit ..	683	1,114	1,212	1,270	1,938	1,501	2,179
Kerosene ..	309	245	455	373	513	910	560
Gas and diesel oil ..	466	1,040	1,329	1,583	1,555	1,746	1,398
Lubricating oil ..	95	104	155	272	241	233	224
Asphalt and bitumen ..	—	55	90	376	23	6	473

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

(a) Information not available. (b) Imported chiefly for bunkering purposes. See exports. (c) Excess of re-exports. (d) Including imports for bunkering purposes. See exports. (e) Excluding imports for bunkers. (f) Natural. (g) Jersey only.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES (Cont.)							
Gold Coast—							
Aviation spirit (d) ..	23,365	29,778	1,770	3,468	2,346	2,307	3,927
Motor spirit (d) ..			34,925	44,099	60,201	65,507	74,489
Kerosene.. ..	5,667	13,946	10,954	14,301	20,565	18,988	24,236
Fuel oil (d)	56,534	58,766	23,242	20,828	38,224	33,315	10,314
Gas oil (d)			42,610	45,858	50,820	60,009	77,048
Diesel oil	2,473	5,027	1,147	2,044	8,842	3,339	12,280
Lubricating oil ..			4,160	4,467	6,571	6,968	8,003
Asphalt and bitumen ..	29	382	1,121	1,457	2,110	8,803	17,208
Kenya (e)—							
Aviation spirit (d) ..	84,821	81,691	9,764	8,084	7,293	9,330	14,888
Motor spirit (d) ..			72,629	79,572	54,882	98,917	96,987
Kerosene—Power ..	23,167	28,158	7,784	12,898	12,402	15,692	12,609
do. —Other ..			5,364	17,785	8,822	22,234	21,782
Gas oil and fuel oil (d) ..	114,388	118,704	220,278	349,935	326,184	447,408	509,356
Lubricating oil (d) ..	4,835	6,344	7,688	7,392	6,162	4,098	15,229
Greases	516	461	751	605	450	669	970
Petroleum jelly	(a)	(a)	82	107	12	31	214
Paraffin wax	(a)	(a)	72	65	40	73	267
Mauritius—							
Aviation spirit	6,106	6,138	7,770	2,225	163	(c) 93	604
Motor spirit			7,322	10,727	11,316	15,186	
Kerosene.. ..	3,718	3,066	3,417	3,570	3,172	3,097	2,824
Lubricating oils, etc. ..	514	857	1,101	976	1,162	1,330	1,493
Fuel oil (b)	11	81	1,785	5,246	8,679	9,223	16,089
Refined motor grease ..	84	60	126	94	116	168	165
Asphalt	448	1,603	2,308	1,614	1,712	826	1,355
Nigeria—							
Aviation spirit	29,315	44,815	9,886	6,723	13,654	14,552	11,594
Motor spirit			103,955	47,265	81,090	82,452	82,355
Kerosene.. ..	18,030	10,007	13,965	16,956	35,493	27,118	43,292
Gas oil (b)	11,601	16,032	11,003	1,070	4,935	7,290	8,561
Diesel oil (b)			832	8,061	13,784	6,331	15,816
Fuel oil (b)	2,037	4,763	7,273	19,678	8,865	22,847	21,587
Lubricating oil ..			3,722	3,714	5,221	7,734	10,443
Asphalt and bitumen ..	1,130	760	3,892	1,146	6,670	11,859	20,852
Northern Rhodesia—							
Motor spirit	8,641	11,895	14,822	20,546	25,582	32,720	36,229
Kerosene—Power	785	913	1,666	2,596	3,186	3,971	3,714
do. —Other	1,105	1,104	1,575	1,991	2,396	2,915	3,346
Fuel oil	(a)	(a)	(a)	3,486	5,677	8,145	12,449
Lubricating oil	1,003	1,340	1,973	2,112	2,421	3,337	3,072
Asphalt and bitumen ..	296	558	3,068	2,641	3,121	1,840	4,672
Nyasaland—							
Motor spirit	3,039	3,829	4,338	5,569	7,938	8,388	9,405
Kerosene.. ..	818	770	1,114	1,251	2,188	1,362	2,052
Fuel oil	1,173	1,352	2,202	2,748	4,525	4,648	6,031
Lubricating oil	157	264	303	506	907	828	1,070
St. Helena—							
Motor spirit	68	150	149	165	122	174	256
Kerosene	34	132	65	117	23	111	109
Diesel oil	2	9	35	78	69	156	91
Lubricating oil	11	14	14	23	29	13	14
Seychelles—							
Motor spirit	156	202	182	208	253	305	308
Kerosene.. ..	172	166	563	191	337	202	263
Fuel oil	152	222	250	273	154	374	98
Lubricating oil	17	17	22	18	20	19	47
Sierra Leone—							
Aviation spirit (b) ..	3,426	4,429	154	307	419	151	221
Motor spirit			4,159	4,636	5,331	5,247	6,301
Kerosene	2,253	2,807	2,844	3,722	3,926	4,733	5,936
Gas oil	5,698	5,459	2,584	2,257	2,864	2,790	4,596

(a) Information not available. (b) Including bunkers. See exports. (c) Excess of re-exports.

(d) Including imports for bunkering purposes. See exports. (e) Including Uganda up to 1948 inclusive.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES (Cont.)							
Sierra Leone—(Cont.)							
Diesel oil	480	456	20 2,848	813 3,937	1,579 3,951	1,747 3,961	2,277 3,892
Fuel oil (d)							
Lubricating oil							
Asphalt and bitumen							
Somaliland Protectorate—							
Motor spirit	1,509	3,638	3,591	2,947	2,995	3,588	3,236
Kerosene	367	433	454	424	417	439	454
Gas oil and diesel oil	1,006	1,027	772	(a)	(a)	793	1,018
Lubricating oil	160	109	197	(a)	(a)	133	107
Southern Rhodesia—							
Aviation spirit	2,814	3,787	5,996	5,453	4,602	6,526	9,491
Motor spirit	34,059	46,246	53,414	65,605	80,449	91,680	99,341
Kerosene—Power	3,590	4,859	6,449	11,454	13,597	19,024	18,545
do. —Other	3,210	3,960	4,261	5,444	5,560	7,489	9,089
Fuel oil	7,770	9,716	11,280	13,864	20,011	26,285	28,327
Lubricating oil	2,730	4,200	5,049	5,878	6,972	8,519	11,494
Other oils (total imports)	191	189	240	459	267	482	851
Paraffin wax	463	398	395	400	513	467	482
Asphalt and bitumen	4,752	3,033	4,799	9,043	9,416	17,086	18,436
South West Africa—							
Motor spirit	12,716	16,032	17,284	17,488	18,876	21,697	(a)
Kerosene—Power	1,894	1,492	1,428	2,449	2,347	(a)	(a)
do. —Other	1,220	2,049	2,365	2,753	2,570	3,650	(a)
Diesel oil	4,029	9,106	15,026	12,685	20,400	(a)	(a)
Fuel oil	73	123	—	97	—	(a)	(a)
Lubricating oil	1,535	1,634	2,375	1,129	1,503	2,221	(a)
Asphalt and bitumen	48	114	230	247	288	223	(a)
Tanganyika—							
Aviation spirit (d)	18,056	26,900	3,221 33,189	4,034 44,006	3,789 40,839	3,288 37,565	2,998 41,241
Motor spirit							
Kerosene—Power							
do. —Other							
Gas oil	5,361	9,745	19,417	36,103	52,258	36,556	48,609
Diesel oil							
Fuel oil (d)							
Lubricating oil							
Greases	132	456	604	1,043	425	268	588
Petroleum jelly	(a)	(a)	22	38	25	20	54
Paraffin wax	(a)	(a)	4	27	—	3	2
Uganda—							
Aviation spirit (e)	(b)	(b)	(b)	1,995 24,643	1,842 28,773	1,734 31,991	2,149 35,481
Motor spirit							
Kerosene—Power							
do. —Other							
Gas oil and fuel oil	(b)	(b)	(b)	2,392 2,538	30,014 1,964	18,270 2,422	24,649 2,541
Lubricating oil							
Greases							
Petroleum jelly							
Paraffin wax	(b)	(b)	(b)	164 24 4	137 11 2	167 20 1	159 30 1
Motor spirit							
Kerosene—Power							
do. —Other							
Union of South Africa—							
Motor spirit (d)	681,254	751,033	876,554	1,008,594	1,023,130	1,060,533	(f) 1,119,390
Other spirit	5,128	7,234	5,779	9,447	8,727	14,207	(a)
Turpentine substitute	10,122	13,296	12,559	11,107	18,184	14,904	(a)
Kerosene—Power	115,680	109,248	147,291	186,420	213,506	256,523	(f) 267,065
do. —Other	100,494	112,298	108,199	133,521	127,950	147,952	(f) 159,504
Gas oil	126,899	217,102	292,065	299,196	463,209	(f) 257,888 (f) 436,635	(f) 244,438 (f) 147,168
Diesel oil (e)							
Fuel oil (e)							
Lubricating oil							
Transformer oil	968	1,630	1,416	2,912	3,579	3,777	(a)

(a) Information not available.

(c) Including bunkers. See exports.

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

(b) Included with Kenya.

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

(f) Total imports.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES (Cont.)							
Union of South Africa (Cont.)							
Road oil	4,364	8,762	10,263	4,730	9,513	4,513	(a)
Other oils	2,018	2,992	1,580	2,520	1,795	2,897	(a)
Paraffin wax	6,515	15,271	14,217	8,365	10,918	(i) 15,544	(i) 16,080
Asphalt and bitumen	13,532	22,595	19,307	22,115	29,202	41,678	(i) 46,423
Petroleum jelly	1,149	3,855	1,104	2,458	2,171	3,413	(a)
Zanzibar—							
Motor spirit, etc.	1,081	1,482	1,551	1,986	2,561	3,339	3,427
Kerosene, etc.	2,639	1,449	423	1,875	2,416	2,897	2,796
Fuel oil	1,373	1,424	2,232	1,457	2,561	1,233	1,865
Lubricating oil	111	132	(a)	(a)	(a)	(a)	(a)
Canada (g)—							
Crude petroleum	9,058,212	9,778,106	10,794,172	10,563,835	11,237,210	11,897,747	11,599,948
Tops for refiners	—	80,000	264,026	220,713	186,316	121,312	197,467
Aviation spirit	} 571,656	738,931	1,057,071	{ 137,446	160,860	174,550	229,933
Motor spirit .. .. .								{ 867,879	641,900	483,876	582,858
Kerosene, etc.	137,208	536,535	275,257	137,020	57,818	70,172	123,560
Lubricating oils	43,569	54,391	64,563	65,776	70,776	115,590	125,158
Diesel oil	} 456,435	1,557,050	1,395,803	{ 150,407	278,266	451,313	336,738
Fuel oil .. .. .								{ 776,658	2,031,892	2,329,592	2,737,930
do. (h)	53,843	46,545	52,101	55,531	44,564	59,409	64,995
Other petroleum oils	3,175	3,577	6,543	3,910	4,793	8,074	10,590
Liquefied petroleum gas	(a)	(a)	(a)	63,619	69,409	84,308	85,581
Petroleum jelly, etc.	(£155,658)	(£154,933)	(£137,896)	(£157,134)	(£205,573)	(£228,531)	(£216,704)
Grease	4,432	4,958	4,534	4,909	5,573	6,069	8,109
Paraffin wax, etc.	9,755	18,181	19,461	10,945	13,384	16,703	13,627
Asphaltum oil, etc.	—	—	—	—	371	20	—
Asphalt	7,393	9,733	9,443	19,730	18,986	14,795	9,805
Petroleum coke	197,840	231,146	274,321	265,984	267,300	314,437	255,460
Other products	69,492	46,503	36,843	16,175	10,829	17,189	23,729
Newfoundland (d)—							
Motor spirit (e)	66,353	78,537	92,586	} (d)	(d)	(d)	(d)
Kerosene	6,595	8,123	7,472				
Lubricating oil	3,503	4,000	2,562				
Fuel oil, etc. (c)	68,281	74,328	153,703				
Greases	119	176	112				
Paraffin wax	9	8	2				
Asphalt, etc.	4,419	1,036	3,365				
British Guiana—							
Crude petroleum	22,895	30,142	53,081	53,492	49,790	57,037	70,924
Aviation spirit (b)	144	473	332	239	1,056	848	1,386
Motor spirit	4,342	5,189	6,586	6,602	8,385	9,813	10,322
Kerosene	2,264	3,042	3,805	3,002	4,995	5,020	4,233
Fuel oil, etc.	14,425	9,185	17,584	12,290	23,231	18,282	22,937
Lubricating oil	1,008	1,451	1,847	1,369	1,569	2,186	2,842
Tar and pitch	327	278	288	248	344	309	281
Paraffin wax	5	20	21	10	3	12	22
Asphalt	110	249	348	35	257	242	224
British West Indies—							
Bahamas—							
Crude petroleum	5,567	6,539	8,506	9,784	8,812	11,167	12,583
Motor spirit	2,895	9,266	5,921	10,190	8,610	10,118	11,905
Kerosene	1,618	2,135	2,284	2,716	2,618	3,335	3,440
Lubricating oil	204	272	352	344	512	440	644
Barbados—							
Crude petroleum	5,776	6,005	6,140	6,261	5,357	5,566	5,711
Motor spirit	4,151	5,382	5,389	6,729	7,268	9,464	9,399
Kerosene	2,592	2,280	3,130	3,783	4,835	5,676	5,765
Road oil	117	129	138	154	108	120	57
Gas oil and diesel oil	(f) 1,348	2,575	4,195	3,327	3,777	9,537	3,135
Fuel oil	10,903	3,789	1,840	2,409	(f) 282	—	—
Lubricating oil	286	444	450	465	687	644	574

(a) Information not available.

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

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

(d) Years ended March 31 of year following that stated. Included with Canada from April 1, 1949.

(e) Including Aviation spirit. (f) Excess of re-exports. (g) Including Newfoundland from April 1, 1949.

(h) Ex warehoused, for ships' stores.

(i) Total imports.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES (Cont.)							
British West Indies (Cont.)							
Bermuda—							
Aviation spirit	2,823	(a)	} (d) 24,029	(d) 32,173	(d) 19,666	(d) 30,306	(d) 37,198
Motor spirit	3,617	1,927		(d) 2,740	(d) 2,442	(d) 1,924	(d) 1,253	(d) 1,467
Kerosene	1,871	2,026	(d) 11,674	(d) 9,580	(a)	(d) 11,784	(d) 17,400
Diesel oil	2,445	9,186	(d) 20,530	(d) 10,599	(d) 6,121	(d) 8,329	(d) 19,005
Fuel oil	9,130	10,534	(d) 767	(d) 775	(d) 794	(a)	(d) 1,162
Lubricating oil	233	435	(d) 1,570	(c) 177	49	2,700	2,164
Asphalt	(a)	(a)					
Dominica—							
Motor spirit	259	273	305	333	405	496	(a)
Kerosene	199	197	242	273	318	377	(a)
Fuel oil and diesel oil	168	184	131	117	197	294	(a)
Lubricating oil	15	17	18	22	29	32	(a)
Road oil	(a)	130	401	182	132	(a)	(a)
Grenada—							
Motor spirit	728	1,041	977	1,391	1,275	1,603	1,676
Kerosene	512	499	661	565	602	711	812
Fuel oil	242	266	313	286	377	311	415
Lubricating oil	37	47	43	43	56	102	77
Road oil	102	1,026	646	773	589	543	463
Jamaica (total imports)—							
Aviation spirit (d) ..	2,522	7,325	10,044	10,082	9,899	7,125	(a)
Motor spirit (d)	23,225	26,649	28,528	34,458	41,079	36,072	(a)
Kerosene	8,535	8,426	8,371	10,655	10,617	9,744	(a)
Gas oil (b)	10,104	7,428	2,893	14,678	18,732	(a)	(a)
Diesel oil (b)	16,030	7,376	12,602	11,778	10,935	6,238	(a)
Fuel oil (b)	41,060	69,430	106,680	108,370	93,719	55,200	(a)
Lubricating oil	1,170	1,865	2,163	2,104	1,845	2,797	(a)
Grease	188	317	279	304	379	290	(a)
Petroleum jelly	(a)	114	77	127	93	155	(a)
Paraffin wax	(a)	25	15	27	69	21	(a)
Asphalt	6,446	1,945	5,855	6,309	3,220	6,954	(a)
Leeward Islands—							
Motor spirit	1,391	1,811	1,620	1,971	1,805	1,951	2,443
Kerosene	550	738	670	768	879	867	1,328
Gas oil	620	583	627	551	944	693	972
Diesel oil	387	728	571	741	1,008	612	1,056
Fuel oil	96	293	158	188	192	111	459
Road oil	701	679	206	424	498	466	522
Lubricating oil	104	129	264	150	210	111	214
St. Lucia—							
Motor spirit	449	521	625	730	686	1,030	956
Kerosene	294	251	295	262	239	494	417
Fuel oil	405	370	372	492	442	909	720
Lubricating oil	52	35	72	115	128	89	85
Road oil	337	484	412	404	354	408	392
St. Vincent—							
Motor spirit	394	516	539	709	681	682	786
Kerosene	256	314	315	362	392	401	494
Fuel oil, etc.	285	332	440	416	394	488	530
Lubricating oil	20	39	47	51	48	40	64
Road oil	201	166	115	198	218	340	146
Asphalt, tar and pitch	9	3	6	7	4	7	1
Trinidad and Tobago—							
Crude petroleum	411,930	842,288	1,265,332	1,613,696	1,607,463	2,248,962	2,314,096
Motor spirit	5	8	7	16,285	7	1	3
Kerosene	1,263	—	—	—	7	(c) 4	3
Gas oil	—	—	—	—	803	—	—
Fuel oil	—	—	—	—	537	1	194
Lubricating oil	2,238	2,601	3,020	3,306	3,255	3,917	3,951
Petroleum jelly	14	60	51	72	122	60	101
Paraffin wax	39	78	27	37	44	17	21

(a) Information not available.

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

(c) Excess of re-exports.

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

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES (Cont.)							
British Honduras—							
Aviation spirit	(a)	(a)	207	(c) 74	(c) 12	129	198
Motor spirit	2,045	2,776	2,412	2,285	2,971	3,716	4,042
Kerosene	923	1,163	1,188	1,347	1,309	1,349	1,826
Diesel oil	2,015	1,974	1,607	1,814	2,162	3,293	2,671
Lubricating oil	307	434	252	115	254	454	272
Asphalt	30	397	825	567	725	821	990
Falkland Islands—							
Motor spirit	108	220	161	211	274	243	159
Kerosene	123	106	61	86	122	128	125
Gas and diesel oils	406	655	50	454	1,188	168	996
Fuel oil (e)	56,901	66,839	72,924	88,679	107,383	131,720	111,617
Aden—							
Motor spirit	2,062	5,160	5,649	7,204	1,071	8,323	9,531
Kerosene	3,381	3,919	4,083	3,896	3,691	5,200	4,660
Gas oil	3,864	19,036	18	12,487	17,138	131,721	(c) 3,522
Fuel oil (b)	788,789	1,061,564	1,694,039	2,204,001	2,438,024	2,413,776	2,634,712
Lubricating oil	1,183	966	790	828	990	1,323	1,954
Petroleum jelly	7	3	—	—	—	—	—
Paraffin wax	4	3	—	—	—	—	—
Asphalt and bitumen	224	472	5	764	118	92	1,055
British Borneo—							
Brunei—							
Motor spirit	(a)	974	1,690	2,600	3,089	(a)	(a)
Kerosene		(a)	(a)	557	549	(a)	(a)
Diesel oil		(a)	(a)	2,530	5,818	(a)	(a)
Fuel oil		1,523	3,615	86	234	(a)	(a)
Lubricating oil		236	480	589	1,596	(a)	(a)
North Borneo—							
Motor spirit	(a)	(a)	2,151	3,438	3,732	4,633	7,136
Kerosene			1,844	2,181	2,665	3,262	3,034
Fuel oil			4,523	8,376	6,024	3,176	6,662
Lubricating oil			247	458	517	477	898
Sarawak—							
Crude petroleum	(d)232,068	1,689,965	2,641,516	3,290,440	4,057,462	4,895,640	4,990,194
Motor spirit	(d) 618	1,309	1,381	1,608	2,265	3,880	4,521
Kerosene	(d) 1,241	3,144	3,774	4,062	5,232	6,393	5,516
Diesel oil	(a)	(a)	847	2,279	4,537	5,100	6,119
Fuel Oil	(d) 2,177	3,909	3,505	2,434	588	787	780
Lubricating oil	(d) 106	452	394	428	619	712	863
Natural gas (1,000 cu. ft.)	(d)71,000	564,989	1,260,123	1,663,614	1,822,776	1,744,904	1,769,740
Ceylon—							
Motor spirit	56,009	58,599	76,940	84,994	89,330	106,316	122,336
Kerosene	35,497	34,043	34,661	57,261	43,026	64,869	70,971
Gas oil (e)	10,301	13,150	12,529	24,804	17,427	17,422	25,908
Diesel oil (b)	97,459	94,718	108,426	162,989	103,402	141,953	127,469
Fuel oil (b)	287,586	270,259	292,133	464,140	507,853	536,226	486,928
Lubricating oil (e)	4,338	4,035	6,084	7,607	5,850	8,323	9,989
Other oils and greases	257	131	181	279	369	325	545
Asphalt	18,416	12,025	7,911	15,336	14,140	11,445	33,611
Cyprus—							
Motor spirit, etc.	10,344	13,353	15,790	17,806	21,246	(e) 30,212	(e) 35,582
Kerosene, etc.	9,876	13,448	13,738	14,113	18,789	19,152	15,714
Fuel oils	23,273	39,305	22,181	42,349	46,943	43,106	50,720
Lubricating oil	1,273	1,760	1,520	2,209	1,827	1,391	1,860
Paraffin wax	75	117	109	73	65	165	108
Asphalt and bitumen	2,476	2,234	3,149	2,673	2,958	2,473	5,668

(a) Information not available. (b) Imported chiefly for bunkering purposes. See exports (c) Excess of re-exports.
 (d) April 15 to December 31 only. (e) Including imports for bunkering purposes. See exports.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES (Cont.)							
Hong Kong (total imports)—							
Aviation spirit	48,095	74,676	74,213	147,974	77,999	52,422	10,970 39,483
Motor spirit							
Kerosene	53,164	49,574	56,630	59,428	37,111	21,056	31,860
Diesel oil and gas oil	9,360	213,066	339,441	536,870	495,017	495,070	86,080 326,149
Fuel oil							
Lubricating oil	9,407	18,135	(a)	(a)	(a)	(a)	6,592
Greases	403	682	(a)	(a)	(a)	(a)	279
Petroleum jelly	2,773	1,114	1,124	1,509	1,825	2,918	270
Paraffin wax	1,250	3,966	4,749	6,596	10,749	2,573	737
Asphalt and bitumen	(a)	(a)	(a)	(a)	(a)	(a)	9,125
Asphalt (natural)	(a)	(a)	(a)	(a)	(a)	(a)	307
India—							
Aviation & motor spirits (b)	523,276	358,200	368,498	552,806	639,270	758,548	808,246
Other spirit	21,030	15,024	9,095	246	3,103	7,744	22,146
Kerosene	539,284	740,782	376,338	699,019	808,637	872,081	990,557
Diesel oil	412,484	415,315	269,191	499,181	509,523	599,778	666,407
Fuel oil (b)	1,013,533	892,088	657,999	849,507	787,858	856,020	754,681
White spirit, etc.	1,019	19,945	29,831	8,930	326	539	308
Lubricating oil	140,292	204,422	183,893	258,033	170,745	162,694	258,608
Turpentine substitute	3,991	1,986	8	41	2,169	2,113	1,681
Other oils	6,366	8,045	6,393	17,907	8,659	12,960	13,165
Greases	2,518	7,111	4,550	2,637	2,619	5,465	4,636
Paraffin wax	153	12	1,264	839	106	7	6
Asphalt	24,713	49,272	46,293	67,431	87,493	28,587	141,078
Malaya (total imports)—							
Aviation spirit	(a)	(a)	99,425	139,756	101,761	154,064	165,686
Motor spirit	173,875	232,146	236,027	423,869	689,841	854,821	992,056
Kerosene—Power	(a)	(a)	8,645	30,338	59,387	130,201	146,318
do. —other.. .. .	103,716	146,481	93,146	121,014	172,930	150,535	261,891
Gas oil	(a)	(a)	139,070	148,819	305,792	512,634	789,741
Diesel oil	(a)	(a)	510,693	816,848	729,633	753,414	741,764
Fuel oil	573,502	665,625	565,131	996,140	1,222,917	1,413,042	1,958,802
Lubricating oil	11,993	28,603	16,674	15,070	22,264	32,578	28,915
Paraffin wax	239	1,330	1,341	1,243	2,079	5,919	2,598
Asphalt and bitumen	4,540	24,632	14,031	36,341	30,906	27,073	36,202
Petroleum jelly	38	223	119	44	939	2,268	353
Other petroleum products							
Pakistan (c)—							
Motor spirit	(a)	(a)	(a)	(a)	(a)	74,129	47,855
Other spirit							
Kerosene	(a)	(a)	(a)	(a)	(a)	138,372	99,686
Diesel oil							
Fuel oil	(a)	(a)	(a)	(a)	(a)	404,207	510,215
Lubricating oil							
Turpentine substitutes	(a)	(a)	(a)	(a)	(a)	21,013	34,911
Other oils							
Grease	(a)	(a)	(a)	(a)	(a)	75	165
Paraffin wax							
Asphalt	(a)	(a)	(a)	(a)	(a)	1,056	1,817
Asphalt							
Palestine—							
Crude petroleum	4,016,056	(a)	(a)	(d)	(d)	(d)	(d)
Motor spirit	123	(a)	(a)				
Lubricating oil and grease	6,825	(a)	(a)	(d)	(d)	(d)	(d)
Petroleum jelly	23	(a)	(a)				
Paraffin wax	189	(a)	(a)	(d)	(d)	(d)	(d)
Asphalt	749	(a)	(a)				

(a) Information not available.

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

(c) Years ended March 31 following that stated. Figures for 1952 exclude imports on Government account.

(d) See "Israel" under Foreign Countries.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES (Cont.)							
Australia—							
Crude petroleum ..	158,511	306,711	379,408	571,904	784,147	800,380	994,494
Aviation spirit (b) ..	} 1,137,848	1,315,758	1,308,866	1,466,456	{ 112,054	132,739	127,714
Motor spirit ..							
Turpentine substitute ..	(d) 12,748	(d) 21,967	(d) 23,159	(d) 27,927	32,653	32,991	29,976
Kerosene—Power ..	} 306,770	406,039	401,153	{ 280,514	294,270	269,603	263,214
do.—Other ..							
Lubricating oil ..	62,088	139,492	80,681	145,940	131,066	137,865	175,701
Solar oil ..	} 1,258,870	918,525	1,455,649	{ 315,038	360,034	429,263	512,825
Residual oil ..							
Petroleum jelly ..	1,001	2,416	355	471	(d) 870	2,235	1,607
Paraffin wax, etc. ..	2,947	4,282	5,936	3,576	(d) 3,141	7,297	4,883
Mastic asphalt ..	—	—	3	—	—	—	100
Natural asphalt (d) ..	19,840	32,099	34,896	4,180	4,244	(e) 4,774	(e) 2,333
Bitumen and pitch (d) ..	68,205	61,766	100,891	18,779	(e) 30,583	(e) 33,388	(e) 31,169
Fiji—							
Aviation spirit (c) ..	1,679	2,154	3,679	4,060	4,014	5,028	5,516
Motor spirit ..	8,401	7,680	7,533	8,525	9,900	10,690	10,460
Kerosene ..	1,081	2,395	1,734	3,791	2,357	2,861	3,525
Diesel oil (b) ..	} 16,769	{ 12,209	9,284	11,302	12,653	15,279	18,068
Fuel oil (b) ..							
Lubricating oil ..	760	902	786	686	816	1,058	919
Greases ..	45	136	84	95	106	157	124
New Guinea (d)—							
Motor spirit ..	(a)	(a)	5,504	9,331	4,240	3,892	8,419
Kerosene ..	(a)	(a)	616	2,842	922	1,846	2,037
Fuel oil ..	(a)	(a)	5,083	7,872	4,356	8,424	7,227
Lubricating oil ..	(a)	(a)	338	466	705	549	699
New Zealand—							
Aviation spirit (b) ..	} 280,919	329,312	381,019	467,315	{ 15,200	13,181	} 644,718
Motor spirit ..							
Turpentine substitute ..	3,672	3,020	4,397	3,094	4,448	4,883	8,012
Kerosene—Power ..	29,373	25,329	32,227	23,419	21,046	16,510	15,239
do.—Other ..	4,696	5,460	6,850	3,205	7,110	9,366	17,010
Gas oil ..	} (b) 222,667	281,068	391,712	{ 17,431	24,177	28,550	84,545
Diesel oil ..							
Fuel oil ..	16,491	25,622	16,491	172,743	(b) 187,307	(b) 223,345	166,498
Lubricating oil ..	13,992	23,591	25,622	56,610	(b) 317,262	(b) 247,727	231,993
Transformer oil ..	795	1,147	943	1,125	502	2,164	1,196
Other refined oils ..	2,696	4,418	5,047	262	2,733	4,377	4,871
Paraffin wax ..	311	1,430	1,742	341	1,091	1,517	1,629
Asphalt and bitumen ..	} 10,287	12,634	31,765	{ 5,792	9,464	2,122	18,386
Asphalt, natural ..							
Asphalt, natural ..	—	—	—	2,974	10,624	7,874	9,477
Papua (d)—							
Motor spirit ..	(a)	(a)	(a)	5,192	(a)	2,614	(a)
Kerosene ..	(a)	(a)	(a)	685	(a)	456	(a)
Fuel oil ..	(a)	(a)	(a)	5,887	(a)	2,393	(a)
Lubricating oil ..	(a)	(a)	(a)	(a)	(a)	317	(a)
Solomon Islands (f)—							
Fuel oil, etc. ..	1,812	65	—	219	576	16	(a)
Motor spirit ..	56	35	69	420	377	383	(e) 760
Kerosene ..	72	138	151	135	309	229	(e) 553
Lubricating oil ..	10	39	16	38	89	177	(e) 102
Western Samoa—							
Motor spirit ..	(a)	(a)	1,931	1,140	1,588	927	1,919
Kerosene ..	(a)	(a)	432	623	241	403	507
Fuel oil ..	(a)	(a)	191	188	485	318	361
Lubricating oil ..	(a)	(a)	207	33	165	200	42

(a) Information not available. (b) Including imports for bunkering purposes. See exports.

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

(d) Years ended June 30 of that stated.

(e) Calendar year.

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

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952				
Irish Republic—											
Aviation spirit (c) ..	114,973	136,662	160,037	195,156	(d) 9,512	(d) 3,905	1,857				
Motor spirit							196,379	227,510	249,473		
Kerosene	58,374	67,276	86,535	90,800	76,466	99,463	105,773				
Fuel oil and gas oil (c) ..	48,849	171,841	205,336	199,268	250,628	366,987	333,148				
Lubricating oil	11,610	13,176	10,903	14,071	14,056	17,326	13,803				
Paraffin wax	1,371	3,041	1,898	753	2,347	2,802	1,100				
Asphalt and bitumen ..	16,029	14,709	25,958	15,690	24,543	27,046	30,797				
FOREIGN COUNTRIES											
Austria—											
Motor spirit	(a)	8,391	41,184	48,448	47,947	34,327	12,773				
Gas oil		4,057	7,290	—	4,129	1	—				
Fuel oil		—	2,325	3,460	1,453	20	—				
Lubricating oil, etc. ..		870	4,427	10,329	7,573	10,172	9,785				
Petroleum jelly		165	95	374	223	122	230				
Paraffin wax		66	1,025	2,304	502	3,389	1,924				
Ozokerite and ceresin ..		50	209	775	404	200	198				
Asphalt, bitumen, etc. ..		15	1,482	5,183	2,080	3,068	1,340				
Petroleum coke		—	7,294	8,726	8,866	8,188	17,884				
Tar and pitch		132	1,980	7,706	2,381	9,949	4,941				
Belgium-Luxemburg E.U.—											
Crude petroleum	74,300	149,000	234,557	337,320	435,201	918,830	2,244,598				
Motor spirit, etc.	335,900	344,000	506,670	545,618	670,836	728,830	596,921				
Kerosene	12,100	14,000	16,855	20,132	32,369	48,287	47,703				
Fuel oil and gas oil	109,206	1,290,000	846,417	987,361	1,116,658	1,675,895	1,336,351				
Lubricating oil	58,700	126,000	103,000	108,106	138,531	162,939	131,423				
Other heavy oils	(a)	(a)	(a)	1,766	3,822	416	510				
Petroleum jelly	(a)	(a)	618	587	841	1,128	1,010				
Paraffin wax	3,204	(a)	3,174	3,100	6,219	4,109	2,697				
Ozokerite and ceresin ..	(a)	(a)	200	133	503	380	73				
Asphalt, bitumen, etc. ..	4,485	(a)	3,440	3,815	5,740	12,290	12,414				
Pitch	(a)	(a)	(a)	(a)	(a)	8,798	2,892				
Bulgaria—											
Crude petroleum	6,571	(a)	(a)	(a)	(a)	(a)	(a)				
Motor spirit	34,608										
Kerosene	38,441										
Gas oil	26,630										
Fuel oil	1,211										
Lubricating oil, etc. ..	11,721										
Paraffin wax, ceresin, etc.	557										
Tar	—										
Petroleum jelly	112										
Ozokerite and ceresin ..	5										
Asphalt and bitumen ..	620										
Czechoslovakia—											
Crude petroleum, etc. ..	89,425	183,003	(b) 186,366	(a)	(a)	(a)	(a)				
Motor spirit and kerosene	12,756	2,984	(b) 2,174								
Fuel oil and gas oil ..	63,303	89,345	(b) 60,984								
Lubricating oil and greases	24,641	20,434	(b) 27,445								
Paraffin wax	185	2,239	(b) 3,542								
Ozokerite and ceresin ..	43	321	(b) —								
Petroleum jelly	75	196	(b) 165								
Asphalt products	237	886	(b) 383								
Denmark—											
Crude petroleum	22,562	17,054	19,306					40,022	33,219	20,828	32,756
Motor spirit	213,626	280,675	299,395	358,107	494,951	430,508	464,255				
Kerosene	33,932	32,619	32,741	39,011	50,286	54,986	52,461				
do. Power	7,528	9,700	13,939	17,219	17,484	19,296	30,015				
Turpentine substitute ..	5,221	8,351	5,664	7,588	10,359	8,722	8,939				
Gas oil	336,323	765,591	712,583	777,040	302,784	304,181	270,579				
Diesel oil					214,357	203,644	161,776				
Fuel oil					613,970	806,795	878,631				

(a) Information not available.

(b) January to October only

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

(d) Revised to exclude re-exports to Shannon "Free" Airport. See exports.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Denmark—(Cont.)							
Lubricating oil	35,266	26,146	45,540	25,816	38,113	35,448	31,900
Grease	262	219	372	324	469	543	475
Petroleum jelly	643	151	300	242	430	428	277
Ozokerite, etc.	747	292	409	108	521	468	329
Paraffin wax	1,005	1,398	1,549	1,458	2,700	2,018	1,510
Natural asphalt	6,193	2,868	6,822	4,707	3,784	3,023	5,333
Other asphalt	40,623	22,559	23,781	35,759	50,103	51,731	39,713
Finland (total imports)—							
Crude petroleum	28	—	—	—	53	—	(a)
Motor spirit	41,661	146,399	196,368	213,079	239,755	261,903	279,775
Kerosene	16,499	18,983	15,034	15,494	19,348	18,476	} 62,610
do. Power	24,333	18,386	27,927	21,217	46,988	33,822	
Fuel oil	56,881	113,495	191,457	110,397	155,559	176,111	264,079
Lubricating oil	7,151	15,095	21,358	12,859	19,450	27,521	11,962
Petroleum jelly	101	134	607	55	131	164	(a)
Paraffin wax	529	1,429	1,663	1,184	1,306	2,555	(a)
Asphalt and tar	7,852	17,532	13,384	21,095	42,887	37,553	(a)
France—							
Crude petroleum	2,643,683	4,907,595	7,372,981	11,620,331	13,910,096	17,787,630	20,877,371
Motor spirit	1,084,395	686,001	233,112	110,064	60,675	162,466	126,170
Kerosene	74,213	40,209	279	2,500	90	2,374	4,557
Lubricating oil	216,463	111,155	78,007	64,494	63,092	161,280	66,399
Fuel oil	409,713	524,709	598,839	288,250	152,725	114,770	178,414
Gas oil	372,865	197,735	84,562	95,626	165,153	72,540	130,916
Road oil, etc.	197,647	152,077	(a)	(a)	(a)	1,392	38,005
Petroleum coke	65,063	88,568	58,917	42,020	20,189	39,621	52,776
Paraffin wax	4,002	10,832	5,561	4,967	699	4,954	2,721
Ozokerite and ceresin	—	—	1,234	1,016	1,690	4,183	2,580
Petroleum jelly	809	1,021	30	12	60	66	51
Pitch	2,469	34,318	(a)	(a)	(a)	(a)	38,005
Asphalt and bitumen	1,117	660	508	2,519	2,829	6,974	4,281
Germany (Federal)—							
Crude petroleum	(b) —	(b) 39,000	247,329	1,068,752	1,902,839	3,154,889	3,477,072
Motor spirit	(b) 390,000	(b) 379,000	562,304	393,003	163,984	121,417	128,713
Kerosene	—	—	29,079	15	3,147	1	81
Gas oil	} (b) 435,000	(b) 501,000	} 583,982	617,590	514,804	238,810	370,489
Fuel oil				45,374	63,900	77,868	130,648
Lubricating oil, etc.	(a)	(a)	2,181	5,325	11,820	21,747	24,865
Paraffin wax	(a)	(a)	1,011	13,779	3,697	2,267	1,131
Ozokerite, etc.	(a)	(a)	1	862	166	380	341
Asphalt	(a)	(a)	28	2,125	3,893	4,204	2,872
Greece—							
Motor spirit	62,547	122,089	140,328	172,900	224,267	245,550	237,937
Kerosene	6,930	14,823	21,294	37,637	72,450	80,676	94,103
Fuel oil and diesel oil	173,228	319,839	512,046	639,661	755,710	808,212	885,169
Other oils and greases	14,876	6,725	16,236	21,195	15,807	12,616	14,789
Petroleum jelly	160	105	46	176	69	100	113
Asphalt and bitumen	5,706	6,046	14,944	5,910	21,520	14,985	16,810
Hungary—							
Crude petroleum	3,800	10,000	(a)	(a)	(a)	(a)	(a)
Iceland—							
Aviation spirit	} 22,120	34,565	28,319	57,815	17,152	15,326	} (a)
Motor spirit					24,588	16,909	
Kerosene	1	3,161	2,802	3,987	3,170	1,883	} (a)
Gas oil and fuel oil	36,776	59,168	91,386	119,866	135,769	136,107	
Lubricating oil	1,846	3,085	2,313	2,661	3,245	2,919	} (a)
Greases	50	190	90	116	64	123	
Paraffin wax	26	48	21	57	33	95	} (a)
Petroleum jelly	1	(a)	(a)	3	—	4	
Asphalt	454	64	37	483	438	707	

(a) Information not available.

(b) Bizonal area only.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Italy—							
Crude petroleum ..	31,143	1,212,523	1,745,639	2,442,256	4,483,992	6,698,687	9,725,153
Motor spirit ..	197,142	253,004	44,160	9,926	21,632	34,440	17,153
Kerosene ..	75,600	106,953	16,608	2,273	6,366	190	15
Gas oil ..	166,385	223,130	39,862	8,385	4,546	12,735	10,758
Fuel oil ..	568,458	1,541,436	727,116	668,141	877,255	757,328	594,539
Lubricating oil ..	13,160	141,641	49,564	73,419	94,272	72,210	49,445
Petroleum jelly ..	(a)	1,953	459	912	674	2,013	598
Paraffin wax ..	(a)	11,232	5,925	10,870	20,641	12,039	13,243
Bitumen ..	(a)	43,571	3,566	301	47	78	43
Petroleum coke ..	(a)	34,377	9,604	16,325	19,830	45,776	13,724
Ozokerite and ceresin ..	(a)	(a)	(a)	(a)	(a)	(a)	409
Asphalt ..	(a)	1	3,010	1	450	1,241	1,106
Netherlands—							
Crude petroleum ..	257,213	847,337	1,172,327	2,080,870	4,724,254	6,070,214	6,712,660
Motor spirit ..	375,575	236,750	210,962	250,141	177,492	129,344	138,200
Kerosene ..	286,457	316,451	232,008	264,197	177,674	160,459	149,944
Gas oil ..	253,675	368,616	291,968	264,184	381,691	222,688	339,525
Fuel oil ..	419,536	658,373	387,727	461,851	410,625	440,916	671,922
Lubricating oil ..	62,013	65,121	64,353	67,975	88,052	91,186	63,016
Greases ..	1,019	1,175	1,960	300	315	156	35
Petroleum jelly ..	1,307	1,484	372	542	1,435	1,727	951
Paraffin wax ..	2,337	4,241	6,673	5,573	21,141	15,158	22,359
Ozokerite and ceresin ..	100	353	236	324	217	243	117
Asphalt ..	6,880	1,227	370	271	314	473	186
Norway—							
Crude petroleum ..	—	—	—	—	16,053	(a)	47,651
Motor spirit ..	214,025	226,998	202,349	270,935	244,281	253,683	270,762
Turpentine substitute ..	9,332	8,523	6,970	5,815	8,609	9,520	6,462
Kerosene ..	21,598	23,701	25,027	34,292	37,497	47,084	49,523
Diesel oil ..	89,624	182,056	273,119	178,954	194,188	240,769	279,042
Gas oil ..	160,922	233,494	305,723	336,544	344,991	372,988	412,054
Fuel oil ..	81,958	267,895	472,093	464,696	531,209	763,686	868,574
Lubricating oil ..	26,322	30,118	23,164	32,678	28,538	32,661	23,904
Paraffin wax ..	1,035	2,224	1,733	2,152	1,110	2,384	1,435
Petroleum jelly ..	2,218	1,917	774	1,280	814	1,272	1,132
Asphalt, etc. ..	32,276	24,025	33,608	29,674	36,784	28,228	17,293
Poland—							
Crude petroleum ..	19,405	43,353	(a)	(a)	(a)	(a)	(a)
Motor spirit ..	205,598	86,955	(a)	(a)	(a)	(a)	(a)
Kerosene ..	9,760	38,184	(a)	(a)	(a)	(a)	(a)
Gas oil ..	81,150	68,459	(a)	(a)	(a)	(a)	(a)
Lubricating oil ..	29,120						
Portugal—							
Crude petroleum ..	101,048	263,400	320,086	274,990	260,431	378,276	468,304
Motor spirit ..	60,305	68,080	82,465	78,382	61,579	76,521	69,304
Kerosene ..	45,354	43,267	57,163	49,191	52,444	62,779	61,373
Gas oil and diesel oil ..	36,719	46,185	31,788	49,478	64,369	59,506	62,146
Fuel oil ..	95,085	122,178	67,424	54,005	107,139	128,754	130,026
Lubricating oil ..	12,544	12,992	19,272	12,684	10,290	20,382	16,400
Other mineral oils ..	1,981	3,141	1,729	1,671	1,741	1,331	546
Petroleum jelly ..	128	190	124	117	73	36	114
Paraffin wax ..	923	1,974	1,833	1,855	1,504	2,093	1,419
Natural asphalt ..	14,835	28,504	21,821	488	7,686	15,081	14,218
Spain—							
Crude petroleum ..	130,842	—	—	—	279,745	64,106	880,002
Light petroleum ..	1,825	—	—	—	—	281,219	(a)
Motor spirit ..	334,108	367,123	355,623	414,670	401,465	426,277	375,922
Kerosene ..	21,962	26,134	6,143	18,384	21,763	10,948	12,136
Diesel oil ..	164,322	164,266	170,798	220,419	214,958	196,422	144,699
Lubricating oil ..	56,610	52,765	59,441	41,315	50,017	67,530	43,821
Fuel oil ..	136,493	325,074	349,285	433,719	370,072	403,848	290,782
Petroleum jelly ..	132	157	272	384	400	487	(a)
Paraffin wax ..	737	1,066	1,150	1,439	1,266	2,046	(a)
Asphalt ..	39,936	65,630	32,236	29,124	61,609	72,737	58,376

(a) Information not available.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Sweden—							
Crude petroleum ..	452,554	469,107	565,890	459,171	888,718	1,026,558	1,164,990
Motor spirit ..	451,089	650,138	553,511	528,013	530,388	701,334	714,459
Kerosene ..	117,785	129,150	173,101	166,326	199,756	266,355	275,103
Fuel oil and gas oil ..	718,247	1,735,564	1,837,270	1,727,581	1,939,325	2,632,608	2,786,617
Lubricating oil ..	68,488	68,811	59,552	31,872	62,411	72,921	58,539
Petroleum jelly ..	1,201	970	786	412	481	535	360
Other oils ..	1,008	316	363	202	319	1,680	1,102
Paraffin wax ..	5,878	7,671	5,864	6,472	6,920	8,636	2,058
Ozokerite and ceresin ..	1,225	1,204	1,451	933	927	1,231	837
Asphalt ..	4,281	4,723	3,922	2,253	2,858	5,531	2,231
Pitch ..	25,396	21,705	11,984	3,655	5,174	10,384	4,748
Petroleum coke ..	—	—	—	—	5,410	6,071	4,184
Switzerland—							
Motor spirit ..	148,142	197,755	235,473	262,509	297,586	311,699	345,331
Kerosene ..	15,103	11,264	43,144	18,146	65,276	87,594	119,585
Fuel oil ..	216,980	427,882	397,457	506,310	585,666	611,409	651,906
Lubricating oil and grease ..	28,723	30,492	30,215	22,447	39,199	52,930	28,137
Other oils ..	7,036	67,653	94,051	74,153	91,529	90,598	101,241
Petroleum jelly ..	1,811	892	630	357	1,217	1,339	306
Paraffin wax and ceresin ..	3,193	2,644	2,630	1,579	4,835	3,215	1,739
Asphalt and bitumen ..	716	687	664	421	818	680	712
Yugoslavia—							
Crude petroleum ..	(a)	(a)	(a)	(a)	398,740	378,041	311,355
Aviation spirit ..					14,331	11,277	13,219
Motor spirit ..					39,748	25,243	3,016
Fuel oil ..					20	83	(a)
Lubricating oil ..					16,378	18,471	14,091
Greases ..					6	—	59
Paraffin wax ..					1,343	1,027	833
Petroleum jelly ..					270	589	252
Bitumen ..					651	—	5,717
Petroleum coke ..					968	2,097	1,911
Algeria—							
Aviation spirit ..	129,591	142,779	7,757	6,832	4,517	6,517	6,542
Motor spirit ..			145,512	156,617	189,227	202,866	216,233
Kerosene ..			55,034	47,833	55,501	58,394	62,897
Gas oil ..			68,935	88,343	96,089	125,465	143,239
Fuel oil and diesel oil ..			72,230	109,603	130,868	151,780	185,020
Lubricating oil ..			13,869	13,181	13,924	25,115	22,845
Road oil, etc. ..			22,241	17,261	25,141	26,276	33,470
Paraffin wax ..			269	763	443	350	389
Petroleum jelly ..			11	45	8	16	9
Ozokerite and ceresin ..			111	160	22	25	5
Asphalt, etc., natural ..	601	961	83	29	611	248	85
Mastic asphalt ..			1,148	3,184	2,786	3,962	3,938
Angola—							
Motor spirit ..	10,069	11,644	15,800	16,140	21,858	(a)	(a)
Kerosene ..	1,465	1,125	1,900	2,296	2,619		
Gas oil and fuel oil ..	3,684	3,950	5,700	7,897	8,705		
Lubricating oil ..	1,395	1,678	1,540	1,843	2,434		
Belgian Congo—							
Motor spirit, etc. ..	43,494	55,854	57,251	88,150	103,669	121,360	134,058
Kerosene ..	5,825	5,588	5,678	14,006	12,520	19,524	24,042
Fuel oil, etc. ..	5,805	8,196	12,142	29,654	31,932	56,131	53,848
Lubricating oil and greases ..	4,891	5,983	11,678	9,487	7,731	14,741	21,218
Petroleum jelly ..	—	53	(a)	(a)	3	41	86
Paraffin wax ..	18	5	(a)	(a)	2	21	100
Asphalt ..	737	525	451	1,362	3,559	2,884	5,303

(a) Information not available.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Cameroon (French)—							
Motor spirit	7,889	8,014	17,034	19,308	23,235	29,355	42,295
Kerosene	1,624	1,774	4,458	4,117	5,841	5,234	10,913
Fuel oil	1,453	1,524	3,303	5,707	10,163	10,589	17,112
Lubricating oil	784	715	1,747	1,792	1,748	2,866	5,718
Canary Islands—							
Crude petroleum	454,143	945,834	1,921,173	2,014,628	2,142,101	2,527,985	(a)
Aviation spirit	556						
Diesel oil	270,120						
Fuel oil	218,750						
Lubricating oil	840						
Ceuta—							
Petroleum products (c) ..	44,879	259,232	161,242	196,954	104,851	410,320	a)
Egypt—							
Crude petroleum	5	—	—	—	2	58,936	94,880
Motor spirit	31,962	30,028	19,741	32,216	70,584	88,714	73,038
Turpentine substitute	1,062	606	808	1,048	461	416	623
Kerosene	533,956	442,679	370,935	448,019	434,068	405,458	468,534
Fuel oil	721,290	685,169	622,751	474,058	362,148	473,216	341,734
Gas oil	183,309	133,416	138,929	150,615	124,215	135,821	106,886
Diesel oil	132,345	136,657	132,207	102,330	117,041	151,873	135,185
Lubricating oil	24,351	29,822	36,050	32,452	32,602	42,832	39,405
Petroleum jelly	251	426	473	346	506	441	416
Paraffin wax	156	366	628	1,026	419	1,549	731
Ozokerite and ceresin	10	17	35	27	45	55	43
Asphalt and bitumen	620	880	1,889	856	554	3,579	198
Ethiopia (b)—							
Motor spirit	8,147	7,449	7,344	8,377	6,870	18,700	22,225
Kerosene	2,164	1,909	1,527	1,400	1,000	1,500	980
Fuel oil, gas oil, etc.	10,101	8,638	11,094	11,812	9,400	1,470	2,638
French Equatorial Africa—							
Aviation spirit	1,568	17,382	20,953	33,894	5,329	13,528	12,240
Motor spirit	12,773						
Kerosene	1,939						
Gas oil	1,238						
Fuel oil	721	2,661	6,584	12,149	8,539	13,957	21,133
Lubricating oil	1,297						
Grease	56	(a)	(a)	179	3,539	4,950	5,823
French Somaliland—							
Motor spirit	2,524	3,430	59	996	2,718	626	3,947
Kerosene			1,051	206	725	174	1,881
Lubricating oil			1,347	1,285	425	95	(a)
French Togoland—							
Crude petroleum	7	(a)	82	55	79	108	(a)
Motor spirit	950	1,458	1,569	1,851	2,853	4,404	5,888
Kerosene	916	1,034	1,198	1,997	1,405	3,340	5,293
Fuel oil	817	475	889	1,060	1,282	999	2,871
Lubricating oil	118	148	342	128	255	427	(a)
French West Africa—							
Aviation spirit	(a)	(a)	(a)	(a)	39,565	28,345	20,601
Motor spirit	35,498	40,928	65,551	65,787	67,812	84,346	117,992
Kerosene	11,850	12,181	12,406	26,180	34,349	22,243	37,740
Gas oil	(a)	(a)	(a)	26,475	45,372	43,896	41,542
Diesel oil	(a)	(a)	(a)	236,013	268,295	156,489	(a)
Fuel oil	(a)	(a)	(a)	83,461	475,273	843,465	42,807
Lubricating oil	(a)	(a)	(a)	25,491	37,400	23,916	13,654
Liberia—							
Aviation spirit	(a)	(a)	(a)	1,300	500	(a)	(a)
Motor spirit	(a)	(a)	(a)	5,000	6,000		
Kerosene	(a)	(a)	(a)	700	2,600		
Gas oil	(a)	(a)	(a)	2,500	5,900		

(a) Information not available.

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

(b) Years ended September 10.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Madagascar—							
Motor spirit	12,794	19,750	19,914	18,000	(a)	(a)	(a)
Kerosene	2,135	4,246	2,850	4,000	(a)	(a)	(a)
Fuel oil, gas oil, etc. ..	1,616	4,643	4,532	7,000	(a)	(a)	(a)
Road oil, etc.	1,196	1	4,011				
Lubricating oil	1,540	1,923	3,866	2,000	(a)	(a)	(a)
Asphalt and bitumen ..	343	71	43	(a)	(a)	(a)	(a)
Melilla—							
Petroleum products ..	10,769	9,363	12,637	10,654	13,732	16,634	(a)
Morocco (French)—							
Crude petroleum	10,957	28,139	3	—	2	(a)	20
Motor spirit	61,586	168,553	146,515	166,042	205,742	204,326	278,100
Kerosene	(a)	18,327	21,271	23,506	24,595	24,691	38,954
Gas oil	25,476	49,222	55,310	54,336	83,848	85,615	104,742
Fuel oil	55,600	122,552	150,093	123,082	160,808	178,792	248,638
Lubricating oil	6,451	9,940	8,319	24,168	11,544	10,640	19,818
Grease	444	1,079	(a)	(a)	1,451	1,129	(a)
Paraffin wax	1,901	6,090	1,633	3,720	3,574	3,744	3,924
Asphalt and bitumen ..	9	919	8,547	23,060	29,792	(a)	39,367
Morocco (Spanish)—							
Crude petroleum	983	173	(a)	(a)	(a)	(a)	(a)
Motor spirit	8,350	10,087	(a)	(a)	(a)	(a)	(a)
Kerosene	870	1,445	(a)	(a)	(a)	(a)	(a)
Gas oil	1,991	2,196	(a)	(a)	(a)	(a)	(a)
Fuel oil	149	265	(a)	(a)	(a)	(a)	(a)
Lubricating oil and grease	400	1,643	(a)	(a)	(a)	(a)	(a)
Paraffin wax	37	106	(a)	(a)	(a)	(a)	(a)
Asphalt	266	281	(a)	(a)	(a)	(a)	(a)
Mozambique—							
Motor spirit	13,103	17,110	20,573	21,551	22,919	24,845	(a)
Kerosene	5,097	6,192	7,341	8,931	10,323	10,146	(a)
Fuel oil	6,112	9,655	12,295	17,458	18,490	24,227	(a)
Lubricating oil	1,749	2,179	2,352	2,796	3,041	2,984	(a)
Paraffin wax	46	40	30	39	46	27	(a)
Petroleum jelly	12	12	11	22	29	41	(a)
Asphalt and bitumen (c)	2,337	673	961	852	1,388	2,296	(a)
Portuguese Guinea—							
Motor spirit	750	584	1,071	1,035	(a)	(a)	(a)
Kerosene	172	281	379	475	(a)	(a)	(a)
Fuel oil	271	204	415	216	(a)	(a)	(a)
Lubricating oil	72	118	25	228	(a)	(a)	(a)
Réunion—							
Motor spirit	987	3,841	2,656	2,384	4,232	5,753	6,335
Kerosene	326		497	1,006	1,235	1,407	(a)
Heavy oils	199		486	129	2,601	3,272	(a)
Grease	6		—	—	(a)	(a)	(a)
Tunis—							
Crude petroleum	(a)	(a)	(a)	10,703	—	(a)	(a)
Motor spirit	32,317	39,101	50,264	60,028	68,429	72,400	(a)
Kerosene	15,746	14,887	28,023	33,928	27,632	37,000	(a)
Fuel oil	5,438	19,287	16,532	41,141	59,410	105,900	(a)
Gas oil	28,677	52,608	53,148	56,796	64,121	80,000	(a)
Lubricating oil	6,608	4,606	10,577	9,463	8,208	(a)	(a)
Petroleum jelly	26	9	3	251	—	(a)	(a)
Paraffin wax	9	117	105	(a)	(a)	(a)	(a)
Costa Rica (b)—							
Motor spirit	16,385	12,900	22,503	21,248	29,000	27,500	(a)
Kerosene	(a)	2,800	137	2,164	4,200	5,000	(a)
Diesel oil	16,906	23,254	28,022	24,707	20,600	30,600	(a)
Fuel oil	29,028	40,103	38,410	33,185	38,000	37,800	(a)
Lubricating oil	2,157	2,008	1,821	3,204	2,100	2,000	(a)
Grease	117	36	170	111			
Petroleum jelly	18	486	(a)	(a)	(a)	(a)	(a)
Paraffin wax	584	850	1,145	394	(a)	(a)	(a)
Asphalt	955	5,000	1,064	1,870	(a)	(a)	(a)

(a) Information not available.

(b) Total imports.

(c) Including coal tar and pitch.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Cuba (d) —							
Crude petroleum	137,252	206,600	193,356	230,137	237,782	189,450	412,000
Aviation spirit	(a)	15,333	22,000	19,000	25,000	(a)	32,000
Motor spirit	73,566	151,127	177,281	221,551	278,568	353,730	369,000
Kerosene	(a)	—	316	9	9	1,035	(a)
Fuel oil	1,357,760	{ 1,213,479	1,064,306	1,081,707	1,147,848	1,208,133	1,355,375
Gas oil		{ 11,621	13,826	13,079	22,247	20,632	(a)
Lubricating oil	11,772		23,805	20,332	28,261	34,558	31,360
Residual oils			12,404	16,327	32,155	—	(a)
Petroleum jelly			695	762	869	693	(a)
Greases			1	—	—	—	(a)
Paraffin wax	(a)	(a)	2,260	1,519	3,479	2,517	(a)
Asphalt rock			26	23	28	29	(a)
Other asphalt			294	76	171	143	(a)
Bitumen			—	4	—	2	(a)
Petroleum coke			386	536	46	2,610	(a)
Dominican Republic (d) —							
Motor spirit		{ 30,035	39,361	35,170	36,682	56,744	(a)
Kerosene		{ 6,504	7,042	6,254	6,283	9,877	(a)
Fuel oil	(a)	{ 42,849	59,347	65,230	58,522	33,256	(a)
Lubricating oil		{ 6,506	7,437	3,492	2,636	4,378	(a)
Other oils		{ 3,329	3,972	2,593	2,363	2,369	(a)
French West Indies—							
Guadeloupe—							
Motor spirit and kerosene	6,027		{ 9,231	9,269	13,916	13,651	
Fuel oil and lubricating oil	5,228	{ 10,558	{ 6,336	2,615	(a)	9,410	{ 21,601
Martinique—							
Motor spirit	4,468	6,201	7,771	11,431	8,383	10,028	(a)
Kerosene	1,055	1,817	1,350	1,998	1,958	4,620	(a)
Fuel oil	4,455	5,441	6,012	5,854	6,203	4,919	(a)
Lubricating oil	444	304	461	1,038	(a)	(a)	(a)
Guatemala—							
Crude petroleum, etc. ..	93,000	134,813	174,776	162,580	194,991	166,296	(a)
Aviation spirit	5,600	7,386	6,456	7,560	5,678	7,880	(a)
Motor spirit	19,000	23,984	31,744	36,741	39,010	35,244	(a)
Kerosene	3,000	4,341	5,800	5,877	6,943	9,337	(a)
Diesel oil	22,000	18,032	26,349	18,272	19,145	19,782	(a)
Fuel oil	(a)	(a)	57	323	1,057	1,363	(a)
Lubricating oil	(a)	2,302	3,217	3,406	2,353	4,172	(a)
Grease	(a)	66	255	204	217	231	(a)
Asphalt	(a)	2,539	3,172	763	14,449	2,234	(a)
Paraffin wax, etc. ..	(a)	1,281	1,596	1,300	2,036	2,303	(a)
Haiti (b) —							
Motor spirit	8,218	10,651	12,895	16,456	16,465	18,276	21,015
Kerosene	3,127	3,227	3,938	2,872	2,559	2,911	3,006
Fuel oil, etc.	7,008	9,127	13,316	(a)	15,933	15,093	10,622
Lubricating oil	505	540	856	751	757	(a)	(a)
Honduras (c) —							
Motor spirit	9,536				{ 16,600	21,000	
Kerosene, etc.	962				{ 1,100	1,700	
Fuel oil	95,371	{ (a)	{ (a)	{ (a)	{ 126,300	140,000	{ (a)
Lubricating oil	1,494				{ 1,540	2,000	

(a) Information not available.

(b) Years ended September 30.

(c) Years ended June 30 of year following that stated.

(d) Total imports.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Mexico—							
Crude petroleum ..	23,277	28,057	46,579	6,406	3	740	—
Motor spirit	118,625	145,166	182,507	148,946	142,680	111,776	172,817
Kerosene	10,165	7,117	1,580	3,996	6,664	1,452	1,683
Gas oil	15,750	26,356	10,419	18,392	18,103	11,515	13,090
Fuel oil	101,094	128,467	151,931	137,855	117,204	52,474	201,665
Lubricating oil ..	37,472	45,755	41,424	49,543	58,685	61,479	69,929
Grease	3,738	3,819	3,411	4,430	4,894	3,871	4,644
Paraffin wax	12,689	12,612	16,243	23,047	30,856	25,544	(a)
Petroleum jelly ..	1,048	569	598	780	1,023	1,851	463
Asphalt	3,050	5,962	3,987	8,600	6,342	4,854	10,243
Asphalt rock	13	10	2,492	583	325	340	1,062
Natural gas (million cu. ft.)	15,901	17,597	18,203	16,641	22,678	19,419	18,843
Netherlands West Indies—							
Crude petroleum ..	32,500,712	38,239,068	38,381,729	37,258,468	41,513,562	42,554,686	41,919,669
Aviation spirit	10,224	106,300	199,020	220,660	202,218	(a)	(a)
Motor spirit	33,412	6,230	244	8	4,652	(a)	(a)
Kerosene	615	96	341	167	11,121	(a)	(a)
Fuel oil	1,782,577	1,761,400	2,205,130	1,998,781	1,958,553	1,756,747	1,804,410
Diesel oil	8,842	1	30,980	131,105	27,456	170,459	142,938
Gas oil	22,781	10,045	8,794	55,992	33,605		
Lubricating oil ..	1,726	4,296	10,422	7,631	5,405	(a)	(a)
Asphalt	52	160	28	15	36	(a)	(a)
Nicaragua (b)—							
Motor spirit	11,397	14,000	16,000	(a)	(a)	(a)	(a)
Kerosene	2,391	2,800	3,300				
Fuel oil	23,630	19,000	22,000				
Lubricating oil ..	1,502	1,677	1,900				
Panama—							
Motor spirit	35,000	39,000	42,000	39,000	48,000	57,000	(a)
Kerosene	8,000	9,000	10,000	11,000	13,000	13,000	(a)
Diesel oil	18,000	21,000	19,000	17,000	23,000	24,000	(a)
Fuel oil	75,000	73,000	82,000	79,000	83,000	84,000	(a)
Lubricating oil ..	6,720	2,800	1,500	2,200	2,700	2,400	(a)
St. Pierre and Miquelon—							
Motor spirit	869	312	1,020	780	408	479	1,256
Gas oil and fuel oil ..					361	464	
Salvador—							
Motor spirit	10,645	14,281	19,620	22,820	30,850	37,000	(a)
Kerosene	2,587	3,172	3,462	4,230	4,843	6,500	
Diesel oil	7,205	7,853	11,081	9,328	10,899	13,000	
Fuel oil	22,705	28,936	36,522	41,442	42,350	(a)	
Lubricating oil and grease	837	1,713	1,426	1,278	1,299	4,700	
Paraffin wax, etc. ..	300	928	459	584	27	(a)	
Asphalt	1,463	1,079	1,095	1,628	904	5,400	
United States—							
Crude petroleum ..	12,500,987	14,187,878	18,369,642	22,118,025	24,676,627	25,353,445	29,347,870
Aviation spirit	5,566	3	113	380	2	—	13,198
Motor spirit, etc. ..	9,337	6,278	48,863	1,711	22,661	46,143	191,968
Naphtha	7	37,374	23	151	3,470	9,092	11,171
Kerosene	—	32	19,381	2	34,329	23	3,637
Fuel oil	6,931,885	8,546,931	8,219,709	11,287,386	17,872,337	17,766,055	19,270,969
Gas oil and diesel oil ..	1,257,391	584,957	346,209	320,888	381,996	394,453	489,980
Unfinished distillates and topped oils	3,325	18,135	24,954	617,395	1,051,685	737,116	730,992
Lubricating oil, etc. ..	12,661	6,321	14,316	30	105	37	112
Road oil, etc.	22,425	19,695	30,526	16,674	12,785	17,699	12,512
Paraffin wax, etc. ..	131	435	3,445	106	85	27	1
Ozokerite and ceresin ..	—	10	85	8	47	36	220
Petroleum jelly	1	43	1	—	—	1	3
Asphalt (petroleum) ..	86,789	163,714	220,693	174,028	275,856	377,094	427,511
Asphalt and bitumen (natural)	3,962	5,181	5,951	3,669	5,235	5,629	3,751
Natural gas (1,000 cu. ft.)	—	—	1,188	—	—	—	6,886

(a) Information not available.

(b) Total imports.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Argentina—							
Crude petroleum	896,493	1,149,061	1,714,192	1,476,604	2,907,050	2,773,100	(a)
Motor spirit	14,596	105,782	211,621	137,372	116,721	32,000	(a)
Kerosene	11,512	(a)	10,000	42,000	(a)	(a)	(a)
Gas oil	2,450	6,083	14,180	12,700	(a)	(a)	(a)
Fuel oil	2,017,763	2,374,103	2,575,078	2,368,788	2,017,229	2,705,977	(a)
Diesel oil	190,191	77,555	76,374	85,035	61,710	45,077	(a)
Lubricating oil	7,778	13,248	20,221	24,458	42,949	41,325	(a)
Petroleum jelly	441						
Grease	99						
Paraffin wax	868						
Ozokerite and ceresin	175						
Asphalt for paving	10	(a)	(a)	(a)	(a)	(a)	(a)
Asphalt for roofing	220						
Other asphalt and bitumen	265						
Pitch	22						
Bolivia—							
Crude petroleum, etc.	58,040	71,867	65,846	70,916	56,755	68,519	(a)
Aviation spirit	(a)	4,634	4,699	6,011	4,673	5,754	(a)
Motor spirit	15,742	18,180	31,987	14,044	5,185	8,140	(a)
Kerosene	2,051	2,291	3,499	3,044	233	309	(a)
Lubricating oil and grease	2,950	2,898	2,715	2,044	2,454	4,968	(a)
Paraffin wax	961	1,190	1,276	1,535	1,038	2,003	(a)
Tar, pitch, etc.	778	1,342	985	747	242	415	(a)
Brazil (total imports)—							
Crude petroleum	36,135	8,558	—	—	58,000	19,294	17,470
Motor spirit	613,996	918,182	1,114,523	1,392,507	1,592,454	1,944,858	2,182,130
Kerosene	105,775	135,548	189,081	205,018	232,748	276,101	347,293
Gas oil	14,718	7,654	10,761	9,901		(a)	(a)
Diesel oil	137,651	252,608	420,784	422,156	565,000	669,822	856,493
Fuel oil	659,726	1,034,537	1,278,901	1,363,200	1,703,000	2,037,006	2,274,067
Lubricating oil	51,011	88,523	94,193	75,304	113,701	180,534	146,201
Transformer oil	1,021	2,480	1,339	2,102	(a)	5,684	1,772
Petroleum jelly	855	586	493	683	(a)	2,606	510
Greases	854	1,159	550	503	(a)	813	594
Paraffin wax	1,418	2,873	3,166	2,817	(a)	10,468	6,468
Asphalt and bitumen	6,331	13,585	19,217	30,297	53,037	81,348	26,795
Chile—							
Aviation spirit	160,420	202,076	10,545	13,059	7,473	5,377	3,143
Motor spirit			211,898	234,472	214,855	240,458	263,610
Kerosene	22,187	24,436	30,000	35,636	42,000	61,000	64,200
Diesel oil	66,672	76,715	160,683	103,025	86,610	129,915	101,373
Fuel oil	22,186	732,083	760,229	585,812	(a)	781,000	(a)
Residual fuel oil	831,739	790,453	866,970	824,765	488,166	890,707	666,308
Lubricating oil	14,027	18,200	20,350	21,556	17,740	32,170	26,350
Petroleum jelly	58	(a)	274	314	(a)	(a)	(a)
Greases	660	1,289	1,163	924	800	1,694	1,455
Ozokerite	7	(a)	(a)	(a)	(a)	(a)	(a)
Natural asphalt	485	(a)	(a)	(a)	(a)	(a)	(a)
Paraffin wax	4,377	5,750	5,482	8,590	5,739	7,947	8,726
Tar and pitch	6,371	3,163	3,438	(a)	(a)	(a)	(a)
Colombia—							
Aviation spirit	(a)	(a)	(a)	17,000	32,000	(a)	(a)
Motor spirit	66,222	100,410	172,820	133,000	123,000	(a)	(a)
Kerosene	36	(a)	25	45	(a)	(a)	(a)
Fuel oil and gas oil	23,206	19,429	57,585	21,930			
Diesel oil	247	3,000	4,281	4,290	40,000	(a)	(a)
Lubricating oil	6,011	9,240	7,797	9,163	1,260	(a)	(a)
Petroleum jelly	148	(a)	(a)	163	(a)	(a)	(a)
Paraffin wax	6,285	6,158	9,117	10,590	(a)	(a)	(a)
Asphalt	294	(a)	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952	
FOREIGN COUNTRIES (Cont.)								
Ecuador—								
Aviation spirit	3,442	4,800	3,462	4,163	3,141	(a)	(a)	
Motor spirit			618	3,417	4,314	(a)	(a)	
Lubricating oil and greases			2,240	2,288	2,443	2,305	(a)	(a)
Asphalt and bitumen ..	665	(a)	(a)	(a)	(a)	(a)	(a)	
French Guiana—								
Motor spirit	380	1,405	1,671	(a)	772	3,799	3,303	
Kerosene	253				373			
Fuel oil, etc.	373				804			
Paraguay—								
Motor spirit	8,721	(a)	(a)	(a)	14,000	9,500	18,800	
Kerosene	2,673				3,500	3,200	6,000	
Fuel oil, etc.	437				2,600	2,300	5,500	
Gas oil	269				(a)	(a)	(a)	(a)
Lubricating oil	280				1,100	600	1,800	
Paraffin wax	98				(a)	(a)	(a)	
Asphalt, tar, etc. ..	(a)	(a)	(a)	(a)	(a)			
Peru—								
Crude petroleum	4	—	—	—	—	—	—	
Motor spirit and gas oil	5,499	23,087	15,154	30,709	30,266	50,799	29,504	
Kerosene	1	—	—	—	—	—	16	
Lubricating oil	5,912	6,003	4,690	5,525	6,445	5,456	10,315	
Petroleum jelly	265	122	84	363	46	(a)	74	
Paraffin wax	1,851	2,760	(a)	4,196	3,963	(a)	(a)	
Asphalt and bitumen ..	74	21	70	154	16	(a)	200	
Greases	356	317	321	357	5	625	710	
Ozokerite	9	18	2	2	—	(a)	1	
Uruguay—								
Crude petroleum	257,399	302,757	372,166	537,439	325,189	878,104	1,040,000	
Motor spirit, etc.	16,660	22,180	25,312	29,000	30,059	18,800	21,100	
Kerosene	—	8,341	1,481	—	—	—	1,500	
Gas oil	—	—	2,047	985	—	—	(a)	
Diesel oil	15,521	1,921	3,951	6,319	4,306	3,440	(a)	
Fuel oil	195,859	181,608	45,055	19,691	438	38,717	132,200	
Lubricating oil and greases	10,823	22,166	9,204	8,561	9,367	15,452	(a)	
Paraffin wax	(a)	(a)	229	87	406	—	(a)	
Venezuela—								
Motor spirit	6,453	20,698	45,071	34,861	36,012	40,607	(a)	
Turpentine substitute ..	22	17	29	27	8	7		
Kerosene	—	669	39,930	1,399	—	—		
Gas oil	239	799	6,304	3,806	117	—		
Fuel oil	—	1	20,996	5,938	—	1		
Lubricating oil	10,080	(a)	(a)	35,303	35,431	44,601		
Paraffin wax	2,231	3,202	3,101	3,439	4,842	4,558		
Petroleum jelly	80	256	157	203	204	157		
Natural gas	1,720	(a)	(a)	(a)	(a)	(a)		
Asphalt, bitumen, etc. ..	630	812	3,013	21,115	(a)	(a)		
Afghanistan—								
Motor spirit	(b) 3,400	(a)	18,820	15,033	(a)	(a)	(a)	
Kerosene	(b) 400	(a)	1,782	636	(a)	(a)	(a)	
Diesel oil	(b) 80	(a)	1,500	3,800	(a)	(a)	(a)	
Lubricating oil	(b) 280	(a)	2,100	840	(a)	(a)	(a)	
China—								
Motor spirit	(a)	(a)	(a)	(a)	(a)	(a)	(a)	
Kerosene	234,308	303,824	(a)	(a)	(a)	(a)	(a)	
Fuel oil and diesel oils ..	337,750	1,249,208	(a)	(a)	(a)	(a)	(a)	
Lubricating oil	56,009	55,970	(a)	(a)	(a)	(a)	(a)	
Paraffin wax	5,096	5,623	(a)	(a)	(a)	(a)	(a)	
Asphalt	12,699	17,076	(a)	(a)	(a)	(a)	(a)	

(a) Information not available.

(b) March 21 to December 22 only.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
French Indo-China—							
Motor spirit	7,700	20,000	35,751	62,381	68,769	99,542	(a)
Kerosene.. .. .	1,600	10,000	20,277	22,782	23,449	30,145	(a)
Fuel oil	5,000	11,000	12,846	20,331	19,595	57,434	(a)
Gas oil	(a)	5,000	4,383	9,280	7,010		
Lubricating oil	1,400	(a)	5,326	6,484	5,226	5,647	(a)
Indonesia—							
Crude petroleum	(a)	(a)	904,000	1,634,000	1,379,000	695,000	(a)
Motor spirit	64,834	37,524	28,574	1,500	2,300	(a)	(a)
Kerosene	7,000	16,163	7,636	8,400	3,000	(a)	(a)
Fuel and gas oils	54,824	(a)	8,194	4,662	3,700	(a)	(a)
Lubricating oil	4,340	17,640	28,840	20,860	29,000	(a)	(a)
Asphalt	(a)	20,464	30,147	43,540	21,780	(a)	(a)
Iran (b) (c)—							
Crude petroleum	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Motor spirit	6,500	6,100	1,300	(a)	(a)	149	(a)
Kerosene	28,200	13,900	5,979	(a)	(a)	3,181	(a)
Gas oil	7,300	5,200	1,441	(a)	(a)	—	(a)
Fuel oil	9,800	3,800	405	4	170	405	(a)
Lubricating oil	4,000	2,400	3,645	1,629	3,628	5,579	(a)
Greases	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Paraffin wax	390	850	288	887	(a)	467	(a)
Petroleum jelly	98	280	123	226	206	276	(a)
Asphalt, tar and bitumen	—	1,000	3	—	—	(a)	(a)
Iraq—							
Crude petroleum	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Motor spirit	14,918	15,262	(a)	(a)	(a)	(a)	(a)
Kerosene	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Fuel oil	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Lubricating oil	7,840	9,100	(a)	(a)	(a)	(a)	(a)
Greases	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Asphalt and bitumen ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Israel—							
Crude petroleum	(d)	(a)	(a)	137,346	192,966	(a)	(a)
Aviation spirit	(d)						
Motor spirit	(d)						
Kerosene	(d)						
Fuel oils	(d)						
Lubricating oils	(d)						
Paraffin wax	(d)						
Petroleum jelly	(d)						
Asphalt	(d)	8,694	9,121	325,524	(a)	(a)	
Turpentine substitute ..	(d)	624	437				
		58	14				
		4,015	23,814				
			328	208			
Japan—							
Crude petroleum	—	—	—	1,797	1,213,847	2,442,003	3,581,861
Motor spirit	48,224	145,467	227,557	(a)	30,254	31,183	101,809
Kerosene	18,152	13,584	—	(a)	4,134	41	59
Other refined products ..	260,285	327,323	1,000,000	(a)	(a)	(a)	(a)
Jordan—							
Motor spirit	(a)	9,225	18,169	18,006	21,341	(a)	(a)
Kerosene.. .. .	(a)	9,802	8,180	15,518	24,058		
Diesel oil, etc	(a)	(a)	(a)	(a)	9,531		
Lubricating oil	(a)	(a)	(a)	(a)	1,223		
Petroleum jelly	(a)	(a)	(a)	(a)	1,230		
Macao—							
Motor spirit	827	3,470	5,696	(a)	(a)	(a)	(a)
Kerosene.. .. .	3,583	12,375	26,758	(a)	(a)	(a)	(a)

(a) Information not available.

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

(c) Total imports. (d) See "Palestine" under British Countries.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Philippine Republic—							
Motor spirit	84,485	284,000	436,000	413,000	463,464	398,243	(a)
Kerosene	44,992	81,000	110,000	127,000	149,384	127,580	(a)
Diesel oils	81	182,000	233,000	243,000	301,269	309,103	(a)
Fuel oil	10,019	103,600	233,000	259,000	297,177	276,222	(a)
Lubricating oils	9,762	36,900	29,000	31,000	29,720	54,011	(a)
Grease	729	2,115	2,419	2,800	3,156	3,791	(a)
Petroleum jelly	1,684	1,015	2,289	1,629	2,042	2,884	(a)
Paraffin wax	991	2,354	3,516	3,926	5,137	5,013	(a)
Asphalt	23,641	3,211	24,657	27,096	8,140	5,586	(a)
Portuguese India—							
Motor spirit	1,328	1,258	1,633	2,867	(a)	(a)	(a)
Kerosene	2,360	2,797	2,105	2,851	(a)	(a)	(a)
Lubricating oils	281	302	337	209	(a)	(a)	(a)
Other oils	1,338	1,777	1,982	2,362	(a)	(a)	(a)
Siam—							
Motor spirit	11,560	34,904	59,048	81,539	86,626	111,992	(a)
Kerosene	12,209	35,400	46,793	57,149	50,653	52,801	(a)
Syria and Lebanon—							
Crude petroleum	—	(a)	(a)	(a)	(a)	(a)	(a)
Motor spirit	8,951	29,720	39,500	98,100	(a)	(a)	(a)
Kerosene	13,967	19,000	22,000	56,800	(a)	(a)	(a)
Fuel oil and diesel oil	30,794	33,979	38,181	190,392	(a)	(a)	(a)
Lubricating oil	2,548	5,600	6,300	8,500	(a)	(a)	(a)
Paraffin wax	70	(a)	(a)	(a)	(a)	(a)	(a)
Petroleum jelly	48	(a)	(a)	(a)	(a)	(a)	(a)
Asphalt and bitumen	3,334	10,815	4,789	9,653	(a)	(a)	(a)
Turkey—							
Motor spirit	65,518	94,369	138,877	190,234	192,568	241,227	276,246
Kerosene	44,906	63,223	79,800	109,298	122,956	168,315	199,326
Fuel oil	56,116	74,261	81,081	133,605	150,342	197,627	274,205
Heavy oils	18,396	25,186	24,721	37,075	24,201	34,906	44,472
Paraffin wax and petroleum jelly	1,125	1,273	656	559	458	1,724	762
Ozokerite and ceresin	—	4	1	5	18	16	66
Asphalt	(a)	(a)	(a)	(a)	(a)	7,717	9,674
French Oceania—							
Motor spirit	3,718	4,289	6,010	5,587	7,659	7,156	3,139
Kerosene							
Other oils							
New Caledonia—							
Motor spirit	3,756	6,833	5,314	5,298	2,716	6,795	8,266
Kerosene	498	1,674	942	835	867	2,040	2,291
Fuel oil	1,894	5,361	6,722	3,444	119	6,364	5,615
Lubricating oil, etc.	163	436	487	560	377	46	827

(a) Information not available.

PHOSPHATES
PRODUCTION OF PHOSPHATE-ROCK
(Including Apatite)
(Long tons)

Producing Country	Estimated Tribasic Phosphate of Lime Content or equivalent.													
	1946	1947	1948	1949	1950	1951	1952	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES														
Seychelles (exports) (b) ..	20,726	14,061	21,237	13,727	9,691	4,404	10,944	(a) 130	(a) 110	(a) 90	(a) 220	(a) 120	(a) 260	(a)
Somaliland Protectorate (b)(c) ..	355	288	250	571	303	680	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Southern Rhodesia ..	—	9	—	66	36	—	1,648	(a)	(a)	(a)	(a)	(a)	(a)	(a)
South West Africa (b) ..	1,638	2,188	1,022	942	571	772	166	(a) 160	(a) 130	(a) 180	(a) 75	(a) 250	(a) 240	(a) 90
Tanganyika (e) ..	275	217	309	128	460	2,207	4,931	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Uganda ..	7,099	6,495	—	—	—	80,548	95,044	13,000	14,400	13,700	19,500	17,900	28,200	33,300
Union of South Africa ..	37,096	41,171	39,030	55,579	51,025	5	—	40	—	—	207,000	268,000	283,000	297,000
Canada ..	51	—	—	18	115	333,343	349,158	30,000	89,000	149,000	(a)	(a)	(a)	(a)
Christmas Island (c) ..	32,750	104,451	174,765	243,475	315,361	416	445	160	(a)	(a)	(a)	(a)	(a)	(a)
India (apatite) ..	243	853	1,114	589	3,025	649	696	(a) 11	(a)	(a)	(a)	(a)	(a)	(a)
Sarawak (guano) ..	(a)	(a)	420	500	643	7,929	5,544	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Australia ..	20	5,317	2,135	500	1,627	928,050	1,145,650	50,000	150,000	462,000	679,000	906,000	798,000	986,000
Nauru Island (c) ..	57,650	174,800	535,700	789,400	1,053,450	252,400	275,600	25,000	180,000	107,000	224,000	212,000	217,000	238,000
Ocean Island (c) ..	29,200	209,100	124,850	260,900	247,250	—	—	4,300	(a)	(a)	(a)	(a)	(a)	(a)
New Zealand ..	11,047	200	—	—	—	—	—	—	—	—	—	—	—	—
TOTAL ..	199,000	559,000	901,000	1,366,000	1,683,000	1,611,000	1,890,000	5,500	5,100	—	(a)	(a)	(a)	(a)
Irish Republic ..	11,545	10,610	—	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
FOREIGN COUNTRIES														
Belgium (f) ..	52,468	97,761	89,779	26,584	49,990	119,872	58,051	(a)	(a)	(a)	(a)	(a)	(a)	(a)
France ..	95,749	102,424	83,249	56,701	91,279	110,502	(a)	20,000	21,000	21,600	11,500	(a)	(a)	(a)
Poland (d) ..	10,000	—	—	—	—	—	(a)	3,700	(a)	(a)	(a)	(a)	(a)	(a)
Spain ..	18,318	19,884	22,652	22,728	23,707	22,469	27,648	12,000	13,000	14,800	15,000	15,400	14,600	17,900
Sweden (apatite) ..	49,929	7,574	1,418	1,579	2,012	8,871	21,084	5,000	5,200	970	1,090	1,267	2,856	(a)
U.S.S.R. (d) ..	1,600,000	2,000,000	2,300,000	2,500,000	2,500,000	2,750,000	2,750,000	1,060,000	1,320,000	1,500,000	1,600,000	1,600,000	1,760,000	1,760,000

(f) Including Phosphatic chalk.

(a) Information not available.

(b) Phosphatic guano.

(c) Exports.

(d) Estimated by International Superphosphate Manufacturers' Association.

(e) Bat guano.

PRODUCTION OF PHOSPHATE-ROCK (Cont.)

Producing Country	Estimated Tribasic Phosphate of Lime Content or equivalent.													
	1946	1947	1948	1949	1950	1951	1952	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)														
Algeria	575,600	702,517	660,000	638,000	666,400	764,300	691,491	374,000	457,000	422,000	415,000	433,000	482,000	436,000
Egypt	289,403	365,363	371,051	344,945	390,934	492,956	513,966	188,000	237,000	241,000	224,000	254,000	306,000	319,000
French West Africa (e)	(a)	200	(a)	(a)	(a)	797	21,060	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Madagascar	(a)	(a)	(a)	(a)	(a)	(a)	1,279	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Morocco (French)	2,739,675	2,913,966	3,175,300	3,634,635	3,811,084	4,642,300	3,890,700	1,970,000	2,100,000	2,342,000	2,617,000	2,744,000	3,342,000	2,802,000
Tunis	1,377,700	1,727,500	1,834,300	1,419,200	1,500,700	1,652,400	2,228,890	868,000	1,090,000	1,171,000	894,000	946,000	1,008,000	1,360,000
Netherlands West Indies	77,432	77,978	57,900	111,230	90,500	105,214	99,547	56,000	60,000	43,000	82,000	67,000	78,000	74,000
United States	7,168,839	9,110,989	9,388,160	8,877,474	11,114,159	10,775,052	11,400,000	5,061,000	6,420,000	6,631,000	6,264,000	7,790,000	7,441,000	8,100,000
Brazil	(d) 4,000	36,468	33,786	12,142	(d)12,500	(d)12,500	(d)12,500	2,300	21,000	19,600	7,000	7,000	7,000	7,000
Chile	(a)	(a)	(a)	(a)	45,730	36,595	26,000	(a)	32,000	33,400	29,600	27,800	22,800	16,000
China (d)	7,859	6,695	3,533	20,000	20,000	20,000	20,000	(a)	(a)	14,000	14,000	14,000	14,000	14,000
Japan	(a)	(a)	(a)	(a)	254	141	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Jordan	4,024	6,058	(d) 4,000	(a)	(a)	(c)10,000	(c)25,000	2,600	4,000	(a)	(a)	(a)	(a)	(a)
Angaur Island	(d)100,000	(d)175,000	108,918	(b)240,271	(b)149,841	(b)142,161	82,580	70,000	120,000	75,000	160,000	101,000	95,000	56,000
French Oceania	237,300	193,330	184,385	260,913	266,027	248,000	263,000	190,000	160,000	153,000	214,000	218,000	203,000	216,000
TOTAL	14,430,000	17,500,000	18,350,000	18,230,000	20,890,000	21,910,000	22,240,000							
WORLD'S TOTAL	14,640,000	18,100,000	19,300,000	19,596,000	22,520,000	23,520,000	24,130,000							

(a) Information not available.

(b) Exports.

(c) Estimated.

(d) Estimated by International Superphosphate Manufacturers Association.

(e) In addition, the following amounts of aluminium phosphates were produced (long tons): 1947—640; 1948—3,901; 1949—5,585; 1950—11,722; 1951—24,113; 1952—42,469.

PRODUCTION OF SUPERPHOSPHATES

(Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom	962,200	966,400	1,103,646	1,123,679	1,048,188	782,058	770,547
Union of South Africa*	275,686	288,395	305,992	403,511	517,857	399,302	424,859
Canada (c)	205,000	228,922	222,857	215,625	(e) 220,000	(e) 210,000	(e) 205,000
India	—	5,000	21,358	46,724	51,708	61,018	46,650
Australia (c)	1,105,304	1,170,489	1,186,062	1,423,137	1,483,458	1,547,823	1,597,080
New Zealand (d)	534,224	553,889	557,653	616,382	635,955	595,792	596,000
Irish Republic	(b) 129,795	(b) 141,648	149,100	138,925	162,255	160,199	121,121
FOREIGN COUNTRIES							
Belgium	448,717	603,107	381,019	335,995	366,817	394,946	218,768
Czechoslovakia*	78,864	199,897	207,926	(e) 200,000	(e) 250,000	(e) 230,000	(a)
Denmark	296,533	369,247	413,979	426,107	410,787	431,550	414,117
Finland	111,762	97,404	127,168	193,275	225,831	235,914	278,776
France	1,095,761	1,392,116	1,653,085	1,182,605	1,175,813	1,243,368	847,000
Germany*	160,000	345,000	500,000	600,000	650,000	650,000	(a)
Greece (g)*	73,236	71,758	69,860	97,473	70,666	152,308	128,025
Hungary*	2,136	(e) 16,000	37,283	(e) 40,000	(e) 40,000	(e) 75,000	(e) 60,000
Italy	616,148	1,018,765	1,179,924	1,458,019	1,424,240	1,668,678	1,648,928
Netherlands (g)	580,525	623,565	780,458	836,029	869,588	863,544	394,607
Norway	18,278	25,456	34,006	35,135	65,146	74,256	124,413
Poland	(f) 156,633	(f) 188,387	(f) 275,215	(f) 392,034	(f) 382,183	(e) 270,000	(e) 250,000
Portugal	235,564	239,763	298,062	298,661	308,783	390,998	272,275
Spain	283,180	351,780	696,913	822,683	948,353	1,094,646	1,221,853
Sweden	332,388	295,871	383,962	428,893	464,595	485,239	482,591
Switzerland	24,297	21,751	20,400	17,960	(e) 18,000	15,800	12,900
U.S.S.R. (e)*	1,600,000	2,000,000	2,300,000	2,500,000	2,500,000	3,000,000	3,000,000
Yugoslavia (e)*	40,000	40,000	40,000	40,000	25,000	30,000	30,000
Canary Islands	5,088	3,822	9,813	16,000	16,000	15,956	22,000
Egypt*	14,972	21,707	37,365	58,306	67,634	87,088	104,160
Algeria	90,482	97,669	107,029	81,475	83,756	108,072	100,033
Morocco (French)	48,059	52,000	54,000	54,100	68,900	82,700	77,400
Tunis	24,428	40,429	31,528	42,900	48,800	53,199	51,890
Cuba*	(a)	(a)	(e) 18,000	23,276	25,000	30,000	27,000
Mexico*	(a)	9,000	7,938	(e) 16,000	(e) 16,000	21,000	57,600
United States (g)*	7,769,053	9,209,566	9,424,474	9,387,564	9,720,537	9,497,770	8,816,496
Argentina*	(a)	(a)	4,000	5,000	5,000	5,000	(a)
Brazil*	30,692	39,929	25,000	26,000	26,000	71,000	(e) 72,000
Colombia*	(a)	(a)	2,000	4,000	4,000	2,900	(a)
Uruguay*	400	600	1,500	1,600	2,000	4,000	(a)
Formosa	(a)	(a)	27,870	(a)	37,200	53,270	(a)
Israel*	14,100	3,300	(e) 3,000	5,531	10,198	11,283	16,000
Japan	168,512	697,739	939,476	1,142,485	1,385,759	1,481,813	1,333,899
Turkey	3,744	4,397	5,482	8,457	12,926	18,518	20,899
World's Total (g)	17,539,000	21,434,000	23,645,000	24,776,000	25,846,000	26,525,000	24,800,000

* Source : International Superphosphate Manufacturers' Association.

(a) Information not available.

(b) Including phosphate in compounds.

(c) Years ended June 30 of that stated.

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

(e) Estimated.

(f) Including bone meal.

(g) Including Triple superphosphate converted to ordinary superphosphate.

PRODUCTION OF BASIC SLAG

(Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Great Britain (b)	587,156	538,546	577,215	634,956	658,908	622,195	466,805
FOREIGN COUNTRIES							
Belgium	395,194	536,333	(a)	(a)	(a)	(a)	(a)
France	578,268	686,490	961,254	1,230,219	1,150,106	1,287,372	1,435,397
Germany	(a)	(a)	601,000	1,053,000	1,339,000	1,442,000	1,780,000
Luxemburg	258,000	426,000	550,000	525,000	488,000	597,000	(a)
Saar	(a)	86,959	187,964	263,138	275,662	401,081	425,668
Sweden	12,780	13,324	13,953	12,277	15,911	(a)	(a)

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

(a) Information not available.

(b) Estimated amount ground and used as fertilizers during the years ended June 30 of that stated.

EXPORTS OF PHOSPHATES, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Superphosphates ..	1,436	4,052	18,655	1,936	3,186	1,564	1,139
Basic slag	1,621	1,053	2,043	(a)	(a)	(a)	(a)
Seychelles—							
Phosphatic guano ..	20,726	14,061	21,237	13,727	9,691	4,404	10,944
Somaliand Protectorate—							
Phosphatic guano ..	355	288	250	571	303	680	(£3,128)
South West Africa—							
Phosphatic guano ..	1,638	2,191	1,022	938	568	772	1,633
Uganda—							
Phosphates	—	—	—	—	—	2,207	4,931
Union of South Africa—							
Superphosphates ..	15,076	15,628	22,088	25,413	27,989	(a)	(a)
Canada—							
Phosphatic fertilizer ..	126,019	145,867	120,249	130,815	108,224	127,276	134,148
Christmas Island (b)—							
Phosphate-rock	32,750	104,451	174,765	243,475	315,361	333,343	349,158
Palestine—							
Phosphatic fertilizer ..	4,347	(a)	(a)	(a)	(a)	(a)	(a)
Australia—							
Superphosphates ..	202	566	858	1,221	356	987	1,096
New Zealand—							
Superphosphates ..	—	—	1	1	1	2	5
Nauru Island—							
Phosphate-rock	57,650	174,800	535,700	789,400	1,053,450	928,050	1,145,650
Ocean-Island—							
Phosphate-rock	29,200	209,100	124,850	260,900	247,250	252,400	275,600
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Phosphate-rock	(a)	(a)	33,441	1,648	9,609	6,579	35,279
Superphosphates ..	(a)	(a)	339,470	360,079	329,202	323,484	183,851
Di-calcium superphosphate	(a)	(a)	77,000	50,784	50,720	80,210	67,729
Basic slag	(a)	618,082	817,718	899,624	818,302	1,094,598	938,073
Czechoslovakia—							
Superphosphates ..	—	30	(c) 9,994	(a)	(a)	(a)	(a)
Denmark—							
Superphosphates ..	152	54	12,231	17,362	12,031	7,928	46
France—							
Phosphate-rock	3,384	2	45	24	599	2,816	2,744
Superphosphates ..	21,448	36,034	82,128	160,775	118,577	122,842	61,151
Basic slag	56,076	65,192	91,919	292,776	334,492	235,241	297,527
Di-calcium phosphates	(a)	(a)	834	818	628	833	223
Germany (Federal)—							
Phosphate-rock	(a)	(a)	—	257	—	3,445	—
Superphosphates ..	(a)	(a)	—	—	7,374	16,491	18,375
Italy—							
Superphosphates, including bone superphosphates	(a)	995	83,281	218,511	54,778	15,840	105,238
Netherlands—							
Superphosphates ..	27,207	207,627	321,927	364,360	468,995	464,120	377,725
Basic slag	36	—	5	—	—	—	—
Portugal—							
Superphosphates ..	44,087	1,575	144	29,128	51,512	52,236	17,627

(a) Information not available.

(b) Including exports to the Federation of Malaya.

(c) January to October only.

EXPORTS OF PHOSPHATES, ETC. (Cont.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Spain—							
Superphosphates, etc. . .	87,395	5,944	5,569	35,760	29,222	88,439	(a)
Sweden—							
Phosphate-rock . . .	308	1,200	1,069	1,476	—	—	—
Superphosphates . . .	2,953	—	—	—	—	—	—
Switzerland—							
Basic slag . . .	36	5	—	5	—	—	—
U.S.S.R.—							
Apatite . . .	} (c)	(c)	(c)	(c)	(c)	(c)	(c)
Other phosphate-rock . . .							
Algeria—							
Phosphate-rock . . .	501,945	667,894	599,419	560,966	598,188	684,414	592,279
Superphosphates . . .	8,467	5,192	13,908	4,900	7,087	18,423	7,781
Egypt—							
Phosphate-rock . . .	307,092	337,589	329,440	143,323	492,000	369,260	416,128
French West Africa—							
Phosphate rock . . .	—	—	—	—	—	—	5,383
Aluminium phosphates	—	—	—	5,202	9,385	30,215	38,266
Morocco (French)—							
Phosphate-rock . . .	2,338,278	3,125,347	3,081,944	3,483,382	4,076,890	4,379,922	3,816,654
Morocco (Spanish)—							
Superphosphates . . .	168	40	(a)	(a)	(a)	(a)	(a)
Tunis (including re-exports)—							
Phosphate-rock . . .	1,650,368	1,677,595	1,858,003	1,764,127	1,547,000	2,064,594	1,725,117
Hyperphosphates . . .	—	—	—	114,373	142,274	140,900	108,587
Netherlands West Indies—							
Phosphate-rock . . .	72,431	77,978	57,900	91,546	88,667	106,895	(a)
United States—							
Phosphate-rock . . .	633,340	753,317	1,141,364	1,257,962	1,832,048	1,726,979	1,429,284
Superphosphates (b) . . .	241,335	232,586	382,840	315,988	242,562	266,689	259,091
Angaur Island—							
Phosphate-rock . . .	(a)	175,000	109,000	240,000	150,000	142,161	82,580
French Oceania—							
Phosphate-rock . . .	228,134	205,027	180,212	235,749	250,802	224,259	210,182
Japan—							
Superphosphates . . .	—	109,110	72,899	139	—	(a)	(a)
Jordan—							
Phosphate-rock . . .	3,960	5,962	—	—	(a)	6,150	23,000

(a) Information not available.

(b) Including concentrated superphosphate.

(c) Imports of phosphate-rock into certain countries from U.S.S.R. were as follows (long tons):—

	1946	1947	1948	1949	1950	1951	1952
United Kingdom . . .	—	—	—	—	—	—	(a)
Belgium . . .	(a)	87,359	—	(a)	—	—	(a)
France . . .	(a)	—	—	—	—	—	—
Germany . . .	(a)	(a)	(a)	—	—	—	—
Netherlands . . .	—	47,954	33,667	—	—	—	(a)
Norway . . .	15,729	26,866	23,812	16,277	27,085	(a)	(a)
Sweden . . .	14,742	35,873	53,156	31,156	34,243	48,202	27,684
United States . . .	—	—	—	—	—	—	—

IMPORTS OF PHOSPHATES, ETC.
(Less Re-exports)
(Long tons)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Phosphate-rock	864,035	905,730	983,869	1,086,653	1,109,294	1,030,083	962,688
Guano, raw	319	216	134	1,015	3,211	3,095	1,262
Superphosphates	204,203	37,126	91,443	87,829	168,573	294,457	34,995
Basic slag	10,152	60,821	97,423	219,551	258,173	171,190	68,321
Kenya—							
Superphosphates, basic slag, etc.	(a)	(a)	(b) 2,949	3,782	10,940	7,202	8,805
Mauritius—							
Phosphatic guano	2,934	2,996	2,575	2,842	2,775	2,921	2,331
Superphosphates	—	1,000	12	100	100	256	221
Southern Rhodesia—							
Superphosphates	17,078	14,198	22,427	21,364	28,910	46,404	33,781
South West Africa—							
Superphosphates	840	873	642	655	497	(a)	(a)
Tanganyika—							
Superphosphates, basic slag, etc.	(a)	(a)	68	132	2,741	1,383	663
Uganda—							
Superphosphates, basic slag, etc.	(a)	(a)	(c)	4	7	39	22
Union of South Africa—							
Phosphate-rock	188,380	212,969	168,868	237,435	373,764	366,831	(a)
Superphosphates	5,000	45,638	35,830	22,526	45	—	(a)
Canada—							
Phosphate-rock	333,641	433,385	430,365	554,293	438,416	446,170	420,458
Superphosphates	85,297	126,764	106,592	149,618	163,234	167,779	192,219
Basic slag	41,001	44,614	49,740	33,433	30,900	36,139	57,331
British West Indies—							
Jamaica—							
Phosphatic fertilizers ..	546	275	231	251	720	1,184	(a)
St. Vincent—							
Superphosphates	8	110	40	10	32	116	161
Trinidad and Tobago—							
Superphosphates	1,466	3,742	498	102	10	1,315	809
Basic slag	(a)	(a)	(a)	—	75	—	25
British Guiana—							
Superphosphates, basic slag, etc.	384	1,727	4,839	(a)	(a)	1,070	(a)
Aden—							
Guano, raw	527	528	497	860	(a)	(a)	(a)
Ceylon—							
Phosphate-rock	17,959	16,842	22,335	24,609	31,548	38,346	26,171
Superphosphates	1,211	3,414	108	493	716	474	892
Basic slag	100	99	433	322	99	124	183
Cyprus—							
Superphosphates	(a)	8,862	14,321	17,290	20,881	24,805	20,853
Hong Kong (total imports)—							
Superphosphates, basic slag, etc.	(a)	(a)	(a)	1,968	1,176	30	—
India—							
Superphosphates	60	330	350	948	—	2,965	1,034
Ammonium phosphate	4,504	6,002	4,737	18,666	—	—	1,350
Other phosphates	2,505	995	21,844	9,608	53,445	45,070	23,325
Malaya (total imports)—							
Phosphate-rock	165	75	—	—	—	6,689	—
Phosphatic fertilizers ..	—	1,001	12,833	529	1,784	1,371	1,376
Pakistan (d)—							
Superphosphates	(a)	(a)	(a)	(a)	(a)	155	62
Australia—							
Phosphate-rock	689,098	746,518	738,139	1,016,291	1,224,779	1,050,462	1,095,127
Superphosphates	—	3,965	700	—	12,267	2,017	17

(a) Information not available.

(b) Including Uganda.

(c) Included with Kenya

(d) Years ended March 31 following that stated.

IMPORTS OF PHOSPHATES, ETC. (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES (Cont.)							
New Zealand—							
Phosphate-rock	310,502	281,365	309,902	402,425	511,504	397,190	653,933
Phosphatic guano	—	—	8,000	8,330	267	—	13,236
Superphosphates	(a)	(a)	—	2	1	1	477
Basic slag	9,930	15,785	13,430	42,096	65,319	69,190	47,101
Other phosphates	26,432	71,646	51,380	37,719	69,115	55,938	21,762
Irish Republic—							
Phosphate-rock	79,224	73,300	112,746	127,865	140,791	136,394	101,604
Superphosphates	11	2,507	19,675	37,849	48,092	93,838	31,453
Basic slag	8,587	12,014	23,229	27,038	27,306	33,279	28,297
FOREIGN COUNTRIES							
Austria—							
Phosphate-rock	9,547	—	—	493	60	315	79
Superphosphate	(a)	28,515	40	74,181	67,873	79,939	91,597
Basic slag	(a)	3,826	15,668	125,178	92,699	142,749	112,886
Belgium-Luxemburg E.U.—							
Phosphate-rock	304,194	488,086	398,679	347,861	391,601	450,827	349,089
Superphosphates	(a)	(a)	2	1	2	5	—
Di-calcium superphosphates	(a)	(a)	60	35	139	220	165
Basic slag	(a)	(a)	1,554	—	5,398	1,287	9,260
Czechoslovakia—							
Phosphate-rock	13,838	65,642	(b) 52,516	(a)	(a)	(a)	(a)
Superphosphates	3,974	—	—	(a)	(a)	(a)	(a)
Denmark—							
Phosphate-rock	192,640	208,475	227,971	275,344	233,917	244,376	243,333
Superphosphates	—	—	—	1,952	62,536	49,432	66,831
Finland (total imports)—							
Phosphate-rock	71,351	150,356	177,295	219,809	194,099	302,360	(a)
Superphosphates	14,766	57,657	29,722	16,871	7,081	42,527	(a)
Basic slag	2	14,755	—	—	3	—	(a)
Di-calcium phosphates	(a)	(a)	14,673	4,105	7,209	6,965	(a)
France—							
Phosphate-rock	1,013,742	1,153,345	1,396,256	940,907	1,096,400	1,319,089	906,716
Superphosphates	78	1	357	1,397	1,905	196	146
Basic slag	12,965	438	—	—	—	59	—
Di-calcium phosphates	(a)	(a)	(a)	(a)	8,496	7,875	7,579
Germany (Federal)—							
Phosphate-rock, etc.	259,159	(d) 445,000	554,451	461,189	586,147	642,381	783,297
Superphosphates	(a)	(c)(d) 52,000	396,461	318,583	62,349	—	391
Basic slag	(a)	(a)	31,007	145,624	144,217	248,235	316,183
Greece—							
Phosphate-rock	57,778	38,477	55,496	60,000	42,000	75,000	(a)
Hungary—							
Phosphate-rock	—	15,413	25,934	27,000	61,000	47,000	(a)
Iceland—							
Superphosphates	1,072	1,422	633	2,165	2,388	2,925	(a)
Italy—							
Phosphate-rock	439,940	581,120	702,584	761,511	862,295	1,104,346	953,444
Superphosphates	—	—	—	492	677	—	—
Basic slag	(a)	21,345	22,899	29,151	29,500	46,509	23,942
Netherlands—							
Phosphate-rock	335,498	476,152	508,130	558,975	542,673	589,560	425,661
Superphosphates	11,251	2,744	9,747	12,645	51,262	249	338
Basic slag	141,533	247,400	231,134	156,728	309,203	297,658	353,670
Norway—							
Phosphate-rock	16,074	26,866	23,812	22,460	67,907	66,705	69,011
Superphosphates	87,037	66,422	71,272	122,246	90,292	65,610	39,875
Basic slag	10,416	4,824	7,801	4,782	3,899	7,745	6,409

(a) Information not available.

(b) January to October only.

 (c) P₂ O₅ content.

(d) Bizonal area only.

IMPORTS OF PHOSPHATES, ETC. (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Poland—							
Phosphate-rock	92,155	131,411	176,675	227,000	192,000	284,000	(a)
Portugal—							
Phosphate-rock	247,518	167,726	197,068	173,984	178,700	198,917	241,351
Basic slag	4,851	6,312	2,444	—	1,026	4,671	5,788
Spain—							
Phosphate-rock	153,362	246,350	429,220	414,953	410,596	579,166	
Superphosphates, etc. ..	365	—	20	10	—	—	
Basic slag	—	4,892	—	—	—	—	
Sweden—							
Phosphate-rock	178,580	186,785	217,015	253,732	335,675	424,155	308,011
Superphosphates	—	—	—	10,202	68,859	33,353	8,423
Basic slag	1	3,547	2,224	—	932	7,483	1
Switzerland—							
Phosphate-rock (b)	47,568	41,120	17,327	9,535	22,344	60,749	17,626
Superphosphates, etc. ..	8,132	5,291	6,240	7,190	11,470	11,768	14,111
Basic slag	106,732	137,057	116,497	114,707	122,385	111,563	110,045
Yugoslavia—							
Phosphates	(a)	(a)	(a)	(a)	13,562	35,720	16,092
Algeria—							
Phosphate-rock	—	—	—	—	1	—	—
Superphosphates	113	1,084	1,151	49	394	1,202	391
Basic slag	—	507	—	3,711	1,850	3,189	3,689
Egypt—							
Superphosphates	—	40,747	8,434	51,000	42,767	33,049	66,577
Tunis—							
Superphosphates	8,331	2,715	12,068	(a)	(a)	(a)	(a)
Cuba—							
Superphosphates	(a)	(a)	18,452	10,989	30,644	74,437	(a)
Calcium phosphate	(a)	(a)	6,138	19,741	16,927	12,761	(a)
Mexico—							
Superphosphates	61	127	1,265	144	191	1,237	1,060
United States—							
Phosphate-rock	59,739	43,477	48,104	64,891	87,173	89,823	110,371
Superphosphates	2,495	6,066	3,229	1,273	4,508	2,615	8,258
Basic slag	—	—	29	93	179	96	—
Ammonium phosphates ..	81,351	93,919	96,632	112,745	95,215	120,575	119,032
Brazil—							
Phosphate-rock	14,309	10,051	4,398	16,815	27,225	102,190	55,429
Superphosphates	17,064	44,696	42,548	50,660	127,401	119,804	71,616
Chile—							
Superphosphates	619	(a)	862	1,432	10	44	(a)
Colombia—							
Superphosphates	1,598	(a)	(a)	4,710	1,490	(a)	(a)
Di-calcium phosphates ..	2,110	(a)	(a)	(a)	(a)	(a)	(a)
French Indo-China—							
Phosphate-rock	(a)	6,053	(a)	12,185	9,762	(a)	(a)
Israel—							
Phosphate-rock	7,628	3,883	(a)	4,924	4,985	7,100	(a)
Japan (total imports)—							
Phosphate-rock	193,930	1,116,402	406,433	466,000	967,822	1,037,350	962,330
Superphosphates	(a)	2,644	(a)	(a)	(a)	(a)	(a)
Syria and Lebanon—							
Phosphates	803	(a)	(a)	(a)	(a)	(a)	(a)
Turkey—							
Phosphate-rock	3,050	4,444	3,937	5,905	4,528	18,873	15,312

(a) Information not available.

(b) Estimated on imports from producing countries.

PLATINUM

PRODUCTION OF PLATINUM METALS

(Troy ounces)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Sierra Leone—							
Crude platinum ..	105	431	109	38	—	—	—
Union of South Africa—							
Crude (<i>Pt</i> metals content)	21,877	23,332	22,552	30,470	(<i>f</i>) 55,246	58,323	72,701
Matte (<i>Pt</i> metals content)	50,575	55,508	46,374	56,904	(<i>f</i>) 88,971	132,575	159,820
Osmiridium (crude) (<i>b</i>)	6,100	6,071	5,520	(<i>f</i>) 7,113	(<i>f</i>) 6,914	6,359	6,141
Canada—							
Recovered from Ontario nickel-copper ores (<i>c</i>)—							
Platinum	121,771	94,570	121,404	153,784	124,571	153,483	120,300
Other platinum metals	117,566	110,332	148,343	182,233	148,741	164,905	149,600
Australia—							
New South Wales—							
Concentrates(<i>Pt</i> content)	—	—	—	—	16	8	—
Tasmania—							
Osmiridium	95	99	92	39	46	33	51
New Zealand—							
Crude platinum	14	—	—	—	—	8	4
New Guinea—							
Platinum	(<i>a</i>)	(<i>a</i>)	(<i>a</i>)	(<i>a</i>)	(<i>a</i>)	6	13
FOREIGN COUNTRIES							
Finland—							
Platinum and palladium	(<i>a</i>)	(<i>a</i>)	39	—	—	—	—
U.S.S.R.—							
Crude platinum (<i>d</i>) ..	175,000	150,000	125,000	100,000	100,000	100,000	100,000
Belgian Congo—							
Palladium	—	—	209	106	—	—	—
Ethiopia—							
Crude platinum	(<i>a</i>)	(<i>a</i>)	210	280	641	266	100

(*a*) Information not available.

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

	1946	1947	1948	1949	1950	1951	1952
Osmium	1,970	1,859	1,679	2,213	1,710	1,774	1,639
Iridium	1,691	1,677	1,483	1,964	1,594	1,692	1,542
Ruthenium	876	826	717	993	792	864	774
Platinum	853	785	671	891	724	802	679
Rhodium	47	42	37	56	52	57	48

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

(*d*) U.S. Bureau of Mines estimate.

(*e*) Estimated.

(*f*) Revised.

PRODUCTION OF PLATINUM METALS (Cont.)

Producing Country	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
United States (b)—							
Crude platinum ..	22,949	13,836	13,741	17,169	22,346	27,799	28,220
New platinum metals recovered by refineries from gold and copper ores of domestic origin—							
Platinum	555	1,098	1,251	1,844	3,722	5,017	1,969
Palladium	2,735	3,471	4,261	5,794	11,533	3,999	4,196
Iridium, osmium, etc.	73	1	—	—	254	136	24
Colombia—							
Crude platinum	43,835	43,035	(d) 40,047	(d) 20,797	26,445	(c) 32,000	(c) 24,000
Bolivia—							
Platinum	253	—	—	—	—	—	—
Japan—							
Platinum	—	—	—	68	151	245	484
Palladium	22	—	—	32	59	23	85
WORLD'S TOTAL (c)	567,000	505,000	529,000	576,000	601,000	685,000	668,000

(a) Information not available.

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

	1946	1947	1948	1949	1950	1951	1952
Platinum	40,385	54,190	58,527	41,734	33,894	22,470	28,628
Palladium	27,856	27,492	28,418	37,209	21,167	27,999	25,540
Iridium	2,002	2,089	2,214	1,101	1,064	} 2,889	{ 1,030
Other platinum metals	2,394	3,317	4,742	3,403	1,988		
							{ 3,403

(c) Estimated.

(d) Exports.

EXPORTS OF PLATINUM*

(Domestic Produce)

(Troy ounces)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Platinum—							
Ingots, grain and powder	17,504	17,306	57,476	102,417	158,257	129,871	135,064
Other kinds, including alloys	33,939	30,790	25,939	23,245	31,725	26,156	49,968
Other platinum metals and alloys	21,273	9,940	111,501	221,644	265,774	202,012	184,687
Sierra Leone—							
Unrefined platinum ..	59	319	104	—	—	—	—
Union of South Africa—							
Osmiridium	6,142	5,958	5,081	6,351	6,368	5,960	5,210
Crude platinum metals ..	61,310	56,288	64,579	85,820	105,251	135,784	172,766
Canada—							
Concentrates, etc. (b) ..	(£3,634,264)	(£2,893,008)	(£4,162,961)	(£4,791,495)	(£6,973,943)	(£10,284,817)	(£11,182,825)
Scrap	933	325	537	634	192	185	1,027
Australia—							
Platinum and platinum group metals	159	402	12	492	31	582	629
New Zealand—							
Platinum, etc. (jewellers' sweepings)	31	11	339	73	175	66	31
Palladium	(a)	(a)	(a)	(a)	33	40	(a)
FOREIGN COUNTRIES							
Czechoslovakia—							
Unwrought platinum and scrap	237	96	—	(a)	(a)	(a)	(a)
Denmark—							
Rods, sheets, wire, scrap, etc.	96	547	547	3,762	482	3,472	772
France—							
Unwrought platinum and scrap	611	1,350	675	1,833	1,382	1,029	32
Drawn or rolled platinum	257	129	32	—	—	836	1,029
Germany (Federal)—							
Platinum metals and alloys	(a)	(a)	—	900	4,088	2,986	3,153
Italy—							
Sheets, bars, dust, scrap, etc.	—	—	—	—	27	—	129
Netherlands—							
Unwrought platinum ..	482	2,604	4,533	7,363	2,792	17,458	13,150
Portugal—							
Bars	64	—	—	—	—	—	—
Sweden—							
Unwrought platinum ..	386	354	611	546	1,479	1,447	1,543
Switzerland—							
Unwrought platinum ..	—	643	707	161	2,636	739	1,222

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

(a) Information not available.

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

EXPORTS OF PLATINUM (Cont.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
U.S.S.R.	(b)	(b)	(b)	(b)	(b)	(b)	(b)
Ethiopia (c)	140	1,548	460	355	1,943	60	1,303
Cuba—							
Platinum	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Palladium	(a)	(a)	(a)	(a)	(a)	(a)	(a)
United States—							
Ores, etc. (Pt. content) . .	134	42	5	165	82	732	(a)
Ingots, sheets, wire, etc.	15,468	17,766	15,471	18,150	12,753	8,760	6,026
Palladium, rhodium, etc., and alloys	4,294	7,783	20,994	22,628	24,946	52,088	17,697
Colombia—							
Platinum	43,854	38,715	40,047	20,797	24,452	17,157	7,853

(a) Information not available.

(b) Exports of platinum metals from U.S.S.R. are not published, but imports into the undermentioned countries from U.S.S.R. were (troy ounces) :—

	1946	1947	1948	1949	1950	1951	1952
United Kingdom . .	14,136	12,636	3,201	—	—	—	(a)
United States . .	106,851	94,367	67,705	—	45,896	16,075	—

(c) Years ended September 10 of that stated.

IMPORTS OF PLATINUM*

(Less Re-exports)

(Troy ounces)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom (b)—							
Ingots, grain and powder	14,936	12,790	2,926	695	2,360	6,963	2,006
Other kinds, including alloys	2,439	1,271	412	275	24	62	33
Other platinum metals and alloys	1,646	3,054	(c) 796	68	13,056	332	168
Union of South Africa—							
Platinum	2,230	608	973	977	487	(a)	(a)
Canada—							
Platinum, palladium and iridium	(£2,031,358)	(£1,869,090)	(£2,664,532)	(£2,855,461)	(£7,019,709)	(£5,789,129)	(£6,363,745)
Australia—							
Platinum bars, rods, etc.	} (d) 51	(d) 347	544	202	355	515	439
Other platinum metals ..			1,181	377	520	(a)	179
New Zealand—							
Bars, sheets, wire, etc. ..	1,022	1,518	2,158	851	1,192	876	847
Palladium	(a)	(a)	(a)	(a)	63	315	(a)
FOREIGN COUNTRIES							
Austria—							
Ingots, sheets, wire, etc.	(a)	96	1,415	(a)	(a)	(a)	(a)
Czechoslovakia—							
Unwrought platinum and scrap	—	675	(e) 642	(a)	(a)	(a)	(a)
Bars, plates, sheets and wire	—	225	(e) 1,445	(a)	(a)	(a)	(a)
Denmark—							
Rods, sheets, wire and scrap	804	289	1,832	707	1,125	1,190	836
Finland (total imports)—							
Unwrought platinum ..	167	84	138	—	3	6	
France—							
Unwrought platinum and scrap	11,446	3,183	129	1,768	482	3,858	3,183
Drawn or rolled platinum	932	643	—	—	—	514	450
Germany (Federal)—							
Platinum metals and alloys	(a)	(a)	1,929	37,423	76,742	57,539	45,037
Italy—							
Bars, dust and scrap ..	64	75	280	97	2,739	4,565	3,408
Sheets, foil and wire	64	32	305	39	163	707	1,157
Netherlands—							
Unwrought platinum ..	1,640	2,476	2,861	4,951	6,912	4,501	17,072
Norway—							
Unwrought platinum ..	3,582	1,645	2,020	644	855	1,689	1,255
Sheets, rolled and wire	409	1,439	845	1,166	903	32	572

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

(a) Information not available.

(b) Imports of ores and concentrates containing platinum are not separately recorded. The values of platinum and platinum metals contained in concentrates and other forms exported from Canada to the United Kingdom were as follows:—1946—£2,058,786; 1947—£1,793,731; 1948—£2,768,196; 1949—£3,182,112; 1950—£3,799,238; 1951—£5,193,010; 1952—£6,368,599.

In addition Crude platinum metals and Osmiridium exported from the Union of South Africa to the United Kingdom (for further refining in the case of the former), were as follows (troy ounces):—

	1946	1947	1948	1949	1950	1951	1952
Crude platinum metals	61,310	56,288	64,579	85,820	105,251	135,784	172,766
Osmiridium	6,142	5,958	5,081	6,351	6,368	5,960	5,210

(c) Excess of re-exports.

(d) Total imports for years ended June 30 of the year stated.

(e) January to October only.

IMPORTS OF PLATINUM (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Portugal—							
Sheets, wire, etc. ..	144	385	227	107	206	260	266
Palladium	804	739	—	675	96	—	—
Spain—							
Bars, sheets, wire etc. ..	180	225	10	449	379	—	(a)
Sweden—							
Unwrought platinum ..	640	765	407	144	482	600	96
Switzerland—							
Unwrought platinum ..	450	1,222	322	1,254	2,218	2,251	66,520
Yugoslavia—							
Unwrought platinum ..	(a)	(a)	(a)	(a)	129	32	(a)
Egypt—							
Ingots, bars, sheets, etc.	7,592	1,374	316	311	(c) 1,398	7	346
Cuba—							
Ingots and bars	(a)	(a)	707	457	2,059	1,130	(a)
Palladium	(a)	(a)	—	1,032	64	125	(a)
Mexico—							
Ingots and bars	763	156	18	618	466	167	515
Sheets and wire	2,616	759	(a)	(a)	(a)	(a)	(a)
United States—							
Ore (b)	26,614	4,486	1,943	505	628	197	1,261
Grains and nuggets (b)	51,330	51,116	28,263	27,728	35,793	34,425	27,355
Sponge and scrap (b) ..	49,929	50,980	68,907	69,768	106,663	135,177	118,568
Ingots, bars, sheets (b) ..	65,801	55,929	40,295	28,180	105,910	158,876	88,289
Iridium	12,402	5,011	5,472	4,221	6,457	3,144	4,718
Osmium and osmiridium	2,645	2,588	1,995	2,857	4,759	3,603	3,386
Palladium	195,555	133,962	119,949	73,770	142,673	239,151	200,502
Rhodium and ruthenium	9,419	5,749	8,604	11,255	19,506	26,724	8,739
Argentina—							
Platinum	5,496	(a)	(a)	(a)	(a)	(a)	(a)
Brazil (total imports)—							
Ingots, sheets and wire	1,455	—	33	23	(a)	—	8,445
Chile—							
Ingots, bars, scrap, etc.	613	(a)	(a)	(a)	(a)	(a)	(a)
Uruguay—							
Ingots	} (a)	(a)	1,480	1,767	820	(a)	(a)
Palladium							
Venezuela—							
Unwrought platinum ..	(a)	129	32	482	(a)	(a)	(a)
Israel—							
Platinum	(£56,860)	(a)	(a)	754	1,267	(a)	(a)
Palladium	(£24,139)	(a)	(a)	2,635	22,323	(a)	(a)
Syria and Lebanon—							
Unwrought platinum	843	(a)	(a)	(a)	(a)	(a)	(a)
Turkey—							
Sheets	—	—	64	—	—	193	161

(a) Information not available.

(b) Platinum content.

(c) Excess of re-exports.

POTASH MINERALS
PRODUCTION OF POTASH

(Long tons)

Producing Country and Description	K ₂ O Content or Equivalent													
	1946	1947	1948	1949	1950	1951	1952	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES														
Palestine— Muriate (chloride) ..	89,141	121,218	9,570	—	—	—	—	44,600	59,870	5,742	—	—	—	—
India— Nitrate	(b) 3,457	4,144	2,972	6,554	5,501	5,212	8,384	1,700	2,000	1,500	3,000	2,700	2,600	4,200
Australia— Alumite	35,852	34,731	39,832	32,694	1,301	449	314	574	1,725	1,830	1,480	60	34	24
TOTAL (estimated)								46,900	64,000	9,000	5,500	2,760	2,634	4,224
FOREIGN COUNTRIES														
France (c)— Sylvinite, 12-22% K ₂ O Fertilizer salts 30-40% K ₂ O ..	3,502,554	4,102,886	4,409,508	5,202,169	5,747,803	5,718,240	6,139,640	168,580	361,735	386,986	339,847	340,576	499,660	1,038,170
Chloride 50% K ₂ O and over Germany (Federal)— Kainite, sylvinite, etc.	2,607,000	3,401,000	5,193,000	7,175,400	8,786,200	10,676,168	12,386,500	369,870	198,232	206,177	365,894	459,240	303,583	1,529,000

(a) Information not available.

(b) Exports plus consumption in tea gardens.

(c) Crude salts as mined.

PRODUCTION OF POTASH (Cont.)

Producing Country and Description	K ₂ O Content or equivalent													
	1946	1947	1948	1949	1950	1951	1952	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES(Cont.)														
Spain—	780,791	612,327	977,064	903,655	997,329	1,042,259	1,035,401	133,339	151,380	149,709	146,414	174,890	193,054	169,919
Carnallite, sylvinite, etc.	(a)	(a)	115	420	546	(a)	(a)	(a)	(a)	(a)	200	260	(a)	(a)
Eritrea—														
Chloride														
United States—														
Muriate (chloride)—														
60-62% K ₂ O (c)	1,117,043	1,244,823	1,360,658	1,351,007	1,648,624	1,828,387	2,203,961							
48-50% K ₂ O	109,158	111,714	130,067	153,996	135,310	139,104	134,785							
Fertilizer salts	87,797	155,487	232,446	158,317	19,225	17,656	7,508							
Sulphate, etc. (b)	192,908	189,562	186,198	172,938	199,204	224,558	213,087	831,975	919,531	1,017,751	998,567	1,149,754	1,268,146	1,486,708
Chile—														
Chloride	(a)	(a)	6,550	4,941	(a)	(a)	(a)	(a)	(a)	1,883	1,400	1,419	(a)	(a)
China—														
Nitrate	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Japan—														
Alumite	(a)	(a)	(a)	3,488	3,342	(a)	(a)	(a)	(a)	(a)	210	200	(a)	(a)
TOTAL (d)	2,500,000	2,990,000	3,600,000	3,900,000	4,500,000	4,800,000	5,500,000	2,500,000	2,990,000	3,600,000	3,900,000	4,500,000	4,800,000	5,500,000
WORLD'S TOTAL (d)	2,650,000	3,054,000	3,610,000	3,910,000	4,500,000	4,800,000	5,500,000	2,650,000	3,054,000	3,610,000	3,910,000	4,500,000	4,800,000	5,500,000

NOTE.—Potash is produced in Poland, the U.S.S.R., the Russian Zone of Germany and certain other countries, but statistics are not available. An allowance has been made for these countries in the world's total.

(a) Information not available.

(b) Including sulphate of potash-magnesia.

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

(d) Estimated.

EXPORTS OF POTASH SALTS

(Domestic Produce)

(Long tons)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952	
BRITISH COUNTRIES								
United Kingdom—								
Chromate and bichromate	460	24	424	697	653	200	454	
Nitrate	2,752	2,133	2,854	1,195	1,868	2,364	1,314	
Sulphate	35	86	25	34	50	68	72	
Other compounds ..	2,393	2,232	1,741	1,515	2,014	2,251	1,478	
Hong Kong (re-exports)—								
Nitrate	120	2,275	(a)	(a)	(a)	(a)	—	
Chlorate	630	1,529	1,927	2,500	2,709	2,065	—	
India—								
Nitrate	1,135	816	36	15	64	227	59	
Malaya (including re-exports)—								
Fertilizer salts	3	8	91	246	19	157	575	
Nitrate	—	5	1	1	5	14	12	
Palestine—								
Fertilizer salts	201	(a)	(a)	—	—	—	—	
Chloride	67,315	117,888	14,548	—	—	—	—	
Chlorate	3	(a)	(a)	—	—	—	—	
FOREIGN COUNTRIES								
Belgium-Luxemburg E.U.—								
Fertilizer salts	(a)	(a)	46,094	97,984	125,205	42,768	31,320	
Carbonate			2,793	2,782	2,790	1,657	1,534	
Caustic potash			5,367	2,566	3,641	3,748	2,149	
Chloride			167,388	280,323	401,263	380,217	302,756	
Chlorates			(a)	30	6	238	297	
Chromates, including those of sodium ..				215	124	387	712	132
Nitrate				998	1,729	1,111	1,328	379
Sulphate		92,828	92,684	80,317	123,994	125,211		
Czechoslovakia—								
Carbonate	33	1	(e) 40	(a)	(a)	(a)	(a)	
Manganate and permanganate, including those of sodium	411	100	(e) 77	(a)	(a)	(a)	(a)	
Finland—								
Chlorate	—	689	953	488	983	1,475		
France—								
Sylvinite, etc.	539,694	326,953	379,272	522,693	535,502	366,385	424,906	
Chloride	363,184	360,215	(e) 246,635	(e) 333,599	(e) 501,244	(e) 486,276	(e) 445,468	
Carbonate	3,478	6,831	5,362	4,534	6,065	7,676	4,661	
Caustic potash	3,228	7,555	2,932	4,061	5,541	10,170	6,368	
Chlorate	1,970	2,788	1,595	2,436	2,095	3,371	1,694	
Nitrate	1,144	4,310	3,165	4,157	4,551	3,705	1,328	
Sulphate	20,343	43,491	(b)	(b)	(b)	(b)	(b)	
Germany (Federal)—								
Fertilizer salts	(a)	(d)22,000	33,614	113,834	343,806	331,546	817,055	
Carbonate and wool grease ash			(a)	—	645	5,619	4,124	2,210
Caustic potash			(a)	127	579	4,398	3,165	2,712
Chlorate			(a)	—	55	491	(f) 207	(a)
Manganates			(a)	—	65	236	(f) 48	(a)
Nitrate			(a)	—	88	946	1,784	2,662
Chloride			(a)	—	36,965	263,031	389,762	(g)
Sulphates	(a)	—	69,439	46,410	98,482	175,732	(g)	

(a) Information not available.
 (c) January to October only.
 (f) January to September only.

(b) Included with chloride.
 (e) Including other fertilizer salts.
 (d) K₂O content.
 (g) Included with fertiliser salts.

EXPORTS OF POTASH SALTS (Cont.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Netherlands—							
Caustic potash	1	3	—	61	165	723	765
Chloride	370	580	1,188	994	1,206	920	871
Nitrate	—	—	1	5	17	25	14
Sulphate	75	489	409	589	547	539	317
Spain—							
Fertilizer salts	146,726	193,462	205,827	235,929	184,160	246,093	(a)
Chlorate	16	52	43	22	23	116	(a)
Sweden—							
Carbonate	18	25	—	—	30	34	—
Caustic potash	493	999	1,579	1,837	1,210	2,316	1,451
Switzerland—							
Nitrate (crude)	271	298	14,172	1,256	15,449	8,686	10,658
United States—							
Chloride	69,872	76,587	75,214	82,235	82,024	84,245	73,310
Other fertilizer salts	16,576	15,322	17,800	17,011	14,380	13,200	11,224
Chromates	1,745	1,000	1,147	1,270	372	1,611	706
Caustic potash	7,980	8,315	9,704	2,380	1,801	3,578	1,767
Other compounds	11,619	10,302	10,482	10,277	6,010	8,305	3,350
Chile—							
Chloride	2,590	2,174	—	(a)	(a)	(a)	(a)
Nitrate	701	165,669	103,177	52,655	73,619	52,388	47,800
Chlorate	101	169	551	(a)	(a)	(a)	(a)

(a) Information not available.

IMPORTS OF POTASH SALTS

(Less Re-exports)

(Long tons)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Fertilizer salts	—	—	—	664	691	9,321	25,514
Carbonate	148	215	354	476	3,946	6,660	2,348
Caustic potash and lyes	1,834	834	1,213	229	1,356	2,553	1,781
Chlorate	265	532	607	859	815	794	727
Chloride	223,281	315,675	438,036	394,192	396,847	445,047	338,924
Nitrate	297	110	25	(c) 37	244	489	343
Sulphate	2,964	17,315	18,177	20,901	13,850	13,681	11,348
Other compounds	277	531	278	1,201	489	1,123	467
Kenya—							
Fertilizer salts	(a)	(a)	(a)	123	178	109	456
Mauritius—							
Nitrate	500	—	1,976	991	988	1,482	1,238
Northern Rhodesia—							
Compounds	52	62	74	11	44	68	33
Southern Rhodesia—							
Compounds	35	56	65	109	56	95	56
Tanganyika—							
Fertilizer salts	(a)	(a)	6	60	50	146	376
Uganda—							
Fertilizer salts	(a)	(a)	(a)	1	12	46	10
Union of South Africa—							
Fertilizer salts	3,404	8,760	3,846	129	—	(a)	(a)
Nitrate	112	22	60	65	118	(a)	(a)
Caustic potash	210	261	265	244	219	410	(a)
Chloride	461	2,193	563	136	6,921	(a)	(a)
Other compounds	—	960	722	1,005	586	104	(a)
Canada—							
Fertilizer salts	6,611	7,141	7,634	6,181	2,043	1,545	1,515
Caustic potash	1,951	2,335	3,156	1,578	2,141	2,168	1,696
Chlorate	147	40	24	26	32	71	31
Crude chloride	69,863	86,366	92,150	90,136	87,954	92,650	104,925
Nitrate	366	261	355	439	448	634	350
Crude sulphate	3,809	2,596	4,634	5,635	7,195	10,012	7,225
Other compounds	765	772	687	1,046	1,124	1,436	1,473
British West Indies—							
Barbados—							
Fertilizer salts	2,783	5,167	3,250	3,687	6,289	4,396	3,714
Jamaica—							
Fertilizer salts	342	406	1,305	2,083	1,627	3,584	(a)
St. Vincent—							
Chloride	10	—	10	(a)	(a)	(a)	(a)
Sulphate	(a)	—	—	(a)	(a)	(a)	(a)
Trinidad and Tobago—							
Chloride and sulphate	160	1,062	960	1,241	630	1,467	1,019
Ceylon—							
Chloride	6,740	7,484	5,540	12,966	18,535	24,081	12,117
Nitrate of potash refuse	—	—	—	—	3	—	—
Sulphate	10	38	675	124	149	50	223
Hong Kong (total imports)—							
Nitrate	202	446	(a)	(a)	(a)	(a)	(a)
Chlorate	1,560	3,526	1,571	3,541	3,283	2,681	(a)
India—							
Bichromate	—	50	3	—	—	2	—
Chlorate	12	435	930	523	574	860	1,301
Chloride	1,108	2,933	1,528	4,561	4,713	13,654	4,162
Other compounds	800	889	2,288	4,148	1,133	2,825	2,336
Malaya (total imports)—							
Fertilizer salts	136	3,815	280	4,824	2,078	4,808	3,365
Nitrate	53	4	—	41	10	84	22

(a) Information not available.

(b) Total imports.

(c) Excess of re-exports.

IMPORTS OF POTASH SALTS (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952						
BRITISH COUNTRIES (Cont.)													
Pakistan (c)—													
Bichromate	} (a)	(a)	(a)	(a)	(a)	} 23	7						
Chlorate								213	252				
Chloride								70	92				
Other compounds ..								224	122				
Palestine—													
Chlorate	20	(a)	(a)	(a)	(a)	(a)	(a)						
Australia—													
Bichromate (b)	130	10	5	81	53	26	9						
Carbonate	831	494	665	454	569	894	709						
Caustic potash	660	686	1,503	222	230	605	840						
Chlorate	—	104	3	17	6	23	20						
Chloride	(b) 7,245	(b) 6,356	(b) 10,707	13,423	12,992	9,716	16,061						
Nitrate	124	139	35	218	269	805	180						
Sulphate	—	—	(b) 150	196	734	865	893						
New Zealand—													
Caustic potash and pearl-ash	5	70	146	50	33	81	106						
Chlorate	23	40	32	259	45	47	51						
Chloride	3,661	7,941	2,146	5,272	10,599	13,217	21,888						
Nitrate	1	22	11	10	91	64	50						
Sulphate	223	645	550	2,476	1,869	1,408	2,072						
Other fertilizer salts ..	36	17	4	—	130	190	235						
Compounds other than fertilizer (£N.Z.) ..	(£9,070)	(£16,968)	(a)	147	46	44	53						
Irish Republic—													
Kainite	—	1	2,668	—	—	—	—						
Fertilizer salts (20–40% K ₂ O)	—	1	1,367	6,039	3,002	—	—						
Chlorate	21	45	68	81	101	80	81						
Chloride	2,662	13,414	11,490	9,108	22,512	29,892	35,103						
Nitrate	46	55	40	141	215	95	90						
Sulphate	—	370	421	535	845	538	241						
Other compounds ..	35	43	87	48	77	126	128						
FOREIGN COUNTRIES													
Austria—													
Fertilizer salts	} (a)	} 8,135	7,941	66,639	43,037	88,257	79,443						
Caustic potash								37	116	109	79	458	107
Carbonate								64	138	207	173	959	707
Chromates								33	225	99	169	66	138
Nitrate								37	41	119	205	206	160
Belgium-Luxemburg E.U.—													
Fertilizer salts	} (a)	(a)	} 253,135	447,645	408,726	161,523	253,341						
Carbonate								1,131	1,179	3	1,025	1,616	
Caustic potash								1,323	946	3,188	1,142	1,038	
Chlorates								2,049	631	820	4,718	297	
Chloride								304,640	414,390	574,626	773,902	718,023	
Chromates, including those of sodium ..	} (a)	(a)	} 250	610	784	813	649						
Manganate and permanganate								59	(a)	160	214	103	
Nitrate								41	27	113	124	2	
Sulphate								4,168	6,340	3,396	7,249	7,449	
Bulgaria—													
Carbonate	55	} (a)	(a)	(a)	(a)	(a)	(a)						
Caustic potash	13												
Chloride	216												
Chromates	19												
Nitrate	118												

(a) Information not available.

(b) Years ended June 30 of that stated.

(c) Years ended March 31 following that stated. Included with India prior to 1948.

IMPORTS OF POTASH SALTS (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Czechoslovakia—							
Kainite	20	—	(c) —	} (a)	(a)	(a)	(a)
Fertilizer salts (38–44% K ₂ O)	86,157	100,146	(c) 80,770				
Fertilizer salts (other)	4,921	—	(c) —				
Carbonate and nitrate	—	690	(c) 515				
Chloride	—	13,759	(c) 10,837				
Sulphate	2,953	—	(c) —				
Denmark—							
Fertilizer salts	65,290	207,374	150,203	190,275	223,091	228,889	356,575
Carbonate	311	138	456	554	931	602	376
Caustic potash	919	605	1,161	1,197	1,557	825	907
Chlorate	99	80	139	183	170	154	125
Chloride	533	82	921	218	43	523	199
Chromates	46	—	45	36	30	54	31
Nitrate	462	380	335	587	739	939	504
Sulphate	1	4	2	11	10	10	189
Finland (total imports)—							
Fertilizer salts	36,106	73,791	82,373	91,991	55,000	72,166	(a)
Carbonate	103	139	186	303	178	218	(a)
Caustic potash	65	31	62	79	34	134	(a)
Chloride	758	1,461	591	1,446	2,108	1,973	(a)
Nitrate	17	33	37	55	30	100	(a)
France—							
Fertilizer salts	(a)	(a)	—	3,935	2,724	10,969	97,140
Carbonate	22	—	—	—	—	—	(a)
Caustic potash	7	15	15	14	5	12	15
Chlorate	—	—	—	—	37	—	—
Chloride	—	—	1	—	—	(a)	(a)
Sulphate	—	—	—	6	4	(a)	(a)
Germany (Federal)—							
Fertilizer salts	} (a)	(a)	—	11,508	—	—	20
Carbonate and wool grease ash			761	358	4	26	—
Caustic potash			153	2	197	199	117
Chlorate			(a)	421	596	1,022	(a)
Manganates			26	157	30	406	(a)
Nitrate	—	—	34	—	10	—	
Greece—							
Carbonate	8	146	618	393	2,162	481	354
Caustic potash	20	13	83	63	22	11	61
Nitrate	125	55	10	31	126	123	96
Iceland—							
Fertilizer salts	450	(a)	(a)	886	1,561	1,783	(a)
Carbonate	8	(a)	(a)	(a)	(a)	(a)	(a)
Caustic potash	29	(a)	(a)	38	10	54	(a)
Italy—							
Fertilizer salts	(a)	18,098	26,471	44,751	48,562	67,695	66,739
Carbonate	(a)	1,216	683	1,294	1,986	2,986	1,907
Caustic potash	(a)	1,346	2,813	2,813	2,861	4,082	3,283
Netherlands—							
Kainite	—	—	62,622	18,393	47,147	48,657	75,324
Fertilizer salts (20% K ₂ O)	30,829	42,699	22,482	61,143	44,896	36,458	40,220
do. (40% K ₂ O)	98,429	162,614	181,379	274,008	298,199	282,331	322,364
do. (50% K ₂ O)	22,673	1,614	2,036	166	—	—	—
Caustic potash	590	649	6,129	1,619	3,958	4,992	3,283
Chloride	7,281	11,851	24,762	16,551	3,263	5,484	10,096
Nitrate	156	198	220	169	1,891	1,647	1,537
Sulphate	3,228	13,429	31,907	} 24,806	} 48,370	{ 10,420	{ 15,803
Patent potash	—	—	1,716				
Norway—							
Fertilizer salts	52,150	55,991	83,492	113,532	78,255	109,794	124,857
Carbonate	353	291	396	486	377	417	330
Caustic potash and lyes	704	979	1,406	2,188	1,077	1,554	1,480
Chloride	7,251	3,569	8,403	16,551	10,700	7,480	13,258
Nitrate	122	115	93	169	106	203	80

(a) Information not available.

(b) January to September only.

(c) January to October only.

IMPORTS OF POTASH SALTS (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Portugal—							
Carbonate	53	111	51	15	42	86	58
Caustic potash	47	44	70	19	15	97	33
Chlorate	171	231	240	138	290	305	69
Chloride	9,858	11,850	4,639	10,139	7,910	9,803	7,800
Chromate	140	28	3	3	1	(a)	(a)
Nitrate	198	249	122	173	—	1	153
Sulphate	(a)	(a)	(a)	(a)	(a)	1,821	1,968
Sweden—							
Fertilizer salts (20% K ₂ O)	10	—	—	—	—	—	—
do. (40% K ₂ O)	93,274	130,075	102,966	120,443	142,827	159,455	152,942
do. (other)	17,945	197	156	10	43	34	689
Carbonate	804	1,052	1,065	761	934	1,366	1,298
Caustic potash	857	510	346	59	91	143	187
Chloride	7,087	16,631	13,958	7,516	9,609	14,933	12,032
Nitrate	592	412	223	610	542	675	382
Sulphate	(a)	(a)	(a)	(a)	2,808	3,085	3,127
Manganates	(a)	(a)	(a)	(a)	159	159	124
Switzerland—							
Fertilizer salts	42,365	46,013	44,617	43,519	58,434	64,886	63,050
Carbonate	746	649	628	676	948	1,231	642
Caustic potash	1,435	2,395	2,234	1,105	2,230	2,389	1,890
Chloride	2,150	2,566	2,721	1,264	2,183	3,181	2,617
Nitrate, crude	49	—	—	—	—	—	98
Nitrate, purified, including sodium nitrate ..	707	737	878	319	932	547	513
Yugoslavia—							
Fertilizer salts	(a)	(a)	(a)	(a)	4,921	10,739	4,607
Carbonate					26	122	251
Caustic potash					54	192	186
Chlorate and chloride ..					159	192	246
Nitrate					98	222	219
Sulphate	69	66	133				
Algeria—							
Fertilizer salts	22,666	21,489	31,579	21,306	24,214	24,282	18,281
Carbonate	50	—	77	7	6	29	3
Caustic potash	45	40	83	35	39	27	24
Nitrate	20	15	100	16	38	22	20
Sulphate	3,495	9,058	182	(a)	(a)	(a)	(a)
Egypt—							
Fertilizer salts	—	—	1	45	445	752	2,559
Carbonate	83	37	113	163	88	269	267
Caustic potash	59	144	87	4	26	15	15
Chlorate	124	77	166	124	151	175	172
Chromates, including those of sodium ..	632	600	572	293	(a)	(a)	416
Manganates	26	23	40	20	49	60	31
Madagascar—							
Fertilizer salts	611	373	530	(a)	(a)	(a)	(a)
Caustic potash	5	1	24	(a)	(a)	(a)	(a)
Mozambique—							
Carbonate	15	15	—	30	6	1	(a)
Tunis—							
Carbonate	1	3	5	(a)	(a)	(a)	(a)
Caustic potash	16	—	3	(a)	(a)	(a)	(a)
Chlorate	1	1	53	(a)	(a)	(a)	(a)
Chloride	2,121	632	1,979	(a)	(a)	(a)	(a)
Nitrate	6	12	16	(a)	(a)	(a)	(a)
Sulphate	492	251	1,476	(a)	(a)	(a)	(a)
Cuba—							
Nitrate	(a)	(a)	18,954	13,143	16,842	22,066	(a)
Chlorate	(a)	(a)	309	169	277	390	(a)
Chloride	(a)	(a)	2,944	8,037	1,416	7,956	(a)
Sulphate	(a)	(a)	2,713	8,323	1,997	3,169	(a)

(a) Information not available.

IMPORTS OF POTASH SALTS (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Mexico—							
Nitrate (incl. soda) ..	11,236	19,690	15,441	5,628	7,962	12,334	11,007
Caustic potash ..	3,015	3,084	9,227	189	478	213	123
Chlorate (incl. soda) ..	830	362	(a)	(a)	(a)	(a)	(a)
Carbonate ..	24,693	34,487	(a)	(a)	(a)	(a)	(a)
Sulphate ..	2	26	(a)	(a)	(a)	(a)	(a)
United States—							
Fertilizer salts ..	—	71	476	912	1,287	3,370	1,960
Carbonate ..	2	8	3	2	4,710	1,987	152
Caustic potash ..	40	30	81	32	726	1,469	66
Chlorates ..	469	179	37	140	306	330	662
Chloride ..	3,082	31,504	31,789	26,005	264,216	439,850	250,160
Cyanide ..	—	20	22	—	636	835	812
Nitrate ..	—	—	—	6	175	5,866	23,426
Potassium-sodium nitrate mixtures ..	3,929	2,232	—	6,074	18,240	7,365	14,696
Sulphate ..	—	8,956	10,540	563	38,388	46,746	35,948
Argentina—							
Bichromate ..	87	}	(a)	(a)	(a)	(a)	(a)
Carbonate ..	134						
Caustic potash ..	570						
Chlorate ..	273						
Cyanide ..	28						
Nitrate ..	124						
Sulphate ..	—						
Brazil (total imports)—							
Caustic potash ..	217	881	167	84	(a)	755	104
Nitrate ..	703	906	1,168	881	(a)	1,988	1,376
Chloride ..	3,655	16,466	11,462	16,448	(a)	43,287	21,885
Sulphate ..	441	1,396	1,626	1,002	(a)	2,689	2,010
Carbonate ..	211	375	91	316	(a)	9	266
Chlorate ..	1,149	656	1,064	857	(a)	2,125	860
Chile—							
Bichromate ..	86	(a)	(a)	(a)	(a)	(a)	(a)
Carbonate ..	46	(a)	(a)	(a)	(a)	(a)	(a)
Caustic potash ..	61	(a)	(a)	(a)	(a)	(a)	(a)
Chlorate ..	81	(a)	(a)	(a)	(a)	(a)	(a)
Nitrate ..	—	(a)	(a)	(a)	(a)	(a)	(a)
Colombia—							
Carbonate ..	4	}	(a)	(a)	(a)	(a)	(a)
Caustic potash ..	19						
Chlorate ..	259						
Nitrate ..	249						
Sulphate ..	57						
Peru—							
Caustic potash ..	8	(a)	10	12	22	39	16
Other salts ..	355	(a)	68	71	53	146	61
Uruguay—							
Nitrate ..	(a)	(a)	262	708	330	409	(a)
Caustic potash ..	(a)	(a)	31	11	52	371	(a)
Venezuela—							
Carbonate ..	1	(a)	13	8	(a)	(a)	(a)
Caustic potash ..	42	78	45	49	(a)	(a)	(a)
Chlorate ..	49	(a)	21	33	45	517	(a)
Nitrate ..	66	51	427	224	82	88	(a)
Japan—							
Fertilizer salts ..	56,454	62,525	52,657	210,510	249,236	313,290	(a)
Syria and Lebanon—							
Fertilizer salts ..	898	(a)	(a)	(a)	(a)	(a)	(a)
Caustic potash ..	1	(a)	(a)	(a)	(a)	(a)	(a)
Turkey—							
Carbonate ..	164	623	231	1,150	826	871	858
Caustic potash ..	86	27	97	72	89	106	125
Chlorates ..	165	291	3	25	7	129	133
Chromates ..	18	80	43	89	89	59	90
Nitrate ..	263	105	50	356	287	16	1
Other salts ..	42	47	25	25	65	161	144

(a) Information not available.

PYRITES

PRODUCTION OF PYRITES* (including Cupreous Pyrites)

(Long tons)

Producing Country	Estimated Sulphur Content													
	1946	1947	1948	1949	1950	1951	1952	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES														
Great Britain	20,628	9,946	3,862	16,919	13,288	15,586	15,586	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Kenya	407	—	—	—	—	—	—	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Southern Rhodesia .. .	24,117	16,873	13,016	16,701	13,592	27,822	18,752	10,600	7,500	5,700	7,300	6,000	12,200	8,300
Union of South Africa ..	37,443	34,271	35,424	34,966	35,457	32,851	30,649	16,292	14,927	15,212	15,033	15,377	14,245	13,198
Canada (sales) (c) .. .	180,299	159,164	164,348	223,639	279,120	397,275	421,591	86,195	73,783	77,791	104,983	134,563	192,288	196,959
Cyprus (salesable) .. .	191,948	427,879	407,662	660,162	596,736	(g) 689,549	821,716	95,014	210,944	196,901	320,179	293,981	337,000	401,000
India	—	—	—	—	—	530	2,168	—	—	—	—	—	230	930
Australia	117,800	117,800	89,412	88,060	118,078	151,388	198,713	55,000	55,300	41,564	40,373	50,900	71,619	93,568
TOTAL	573,000	766,000	714,000	1,040,000	1,056,000	1,314,000	1,509,000	—	—	—	—	—	—	—
FOREIGN COUNTRIES														
Austria	3,768 ^h	6,163	7,747	11,440	13,315	10,075	8,988	(a)	(a)	2,896	4,000	3,157	2,703	2,261
Czechoslovakia .. .	7,700	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Finland (b)	124,315	149,863	174,708	177,197	159,491	228,873	242,042	55,000	66,000	78,000	79,000	69,000	97,000	103,000
France (c)	216,812	195,434	178,814	202,149	243,704	276,127	289,522	86,000	76,200	80,900	83,900	104,857	115,114	121,000
Germany (Federal) .. .	d 208,900	d 315,800	d 377,000	423,600	517,118	525,104	519,594	(a)	126,400	151,000	174,000	188,500	191,542	188,739
Greece	63,177	57,256	19,022	20,654	86,293	178,400	191,578	30,300	27,300	(a)	(a)	(a)	87,400	93,900
Italy	394,193	618,868	823,038	850,536	856,683	884,000	1,123,426	190,000	300,000	395,000	408,000	426,000	424,000	539,000
Norway	531,324	708,643	723,412	733,000	736,967	685,096	701,561	229,035	305,418	309,965	312,956	312,846	284,602	302,327
Poland	27,807	39,033	(f) 54,000	(f) 54,000	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Portugal	310,000	382,686	552,274	613,092	603,801	718,103	743,959	139,501	172,209	248,524	275,892	271,710	323,145	334,781

* See also Sulphur (page 299).
 (a) Information not available.
 (b) Pyrite concentrate only.
 (c) Produced as a by-product in the treatment of copper and copper-zinc ores.
 (d) British and U.S. Zones only.
 (e) In addition the sulphur content of mispickel and auriferous pyrites was as follows (long tons):—1946—5,839; 1947—6,496; 1948—7,351; 1949—9,240; 1950—11,116; 1951—12,650; 1952—(a).
 (f) Estimated.
 (g) Revised.
 (h) Revised.

PRODUCTION OF PYRITES (Cont.)

Producing Country	Estimated Sulphur Content													
	1946	1947	1948	1949	1950	1951	1952	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)														
Spain (c)	884,470	994,503	1,253,147	1,275,802	1,430,083	1,767,824	2,106,871	429,000	483,000	608,000	619,000	694,000	858,000	1,022,000
Sweden	275,783	305,666	385,841	417,310	400,384	400,507	404,779	134,621	145,271	179,113	201,846	199,105	199,602	200,000
Yugoslavia	48,000	(c)247,589	(c)295,268	(c)240,909	115,317	151,350	185,158	22,000	112,000	133,000	108,000	52,000	68,000	83,000
Algeria	39,723	34,780	33,690	32,180	24,700	30,950	23,631	16,244	14,000	13,500	13,220	10,250	12,850	10,200
Morocco (French)	—	—	—	197	1,450	1,918	1,993	—	—	—	(a)	700	870	860
Tunis	2,731	6,570	3,164	2,884	1,130	—	—	1,255	3,000	1,400	1,380	538	—	—
United States (b)	813,372	940,652	928,531	888,388	931,163	1,017,769	994,342	337,549	392,252	388,126	378,453	392,788	432,819	418,139
Japan	474,557	819,588	1,119,909	1,518,001	1,898,286	2,313,696	2,586,846	202,000	348,000	476,000	623,000	790,000	923,000	1,036,000
TOTAL* (c)	4,430,000	5,830,000	6,930,000	7,460,000	8,100,000	9,240,000	10,180,000							
World's TOTAL* (c)	5,003,000	6,596,000	7,644,000	8,500,000	9,156,000	10,554,000	11,687,000	2,170,000	2,960,000	3,440,000	3,810,000	4,090,000	4,680,000	5,200,000

*Excluding pyrites produced in Roumania, U.S.S.R., China, Brazil and Manchuria.

(a) Information not available.

(b) Includes by-product pyrites.

(c) Revised.

EXPORTS OF PYRITES

(Domestic Produce)

(Long tons)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Southern Rhodesia—							
Iron pyrites	26,437	17,308	12,246	16,665	12,329	24,728	15,281
Canada—							
Pyrites (S content) ..	60,754	50,299	44,860	80,851	99,689	158,963	176,694
Cyprus—							
Iron pyrites	256,203	352,946	369,925	401,768	533,501	614,864	633,270
Cupreous pyrites ..	—	—	—	77,820	111,210	99,060	146,672
Australia	(a)	(a)	(a)	9	177	6,420	—
FOREIGN COUNTRIES							
Austria	(a)	(a)	(a)	7,975	20,098	95,648	88,461
Belgium-Luxemburg E.U.	(a)	(a)	3,282	—	362	3,531	—
Finland—							
Concentrate	—	11,731	5,462	30,222	—	—	(a)
France	—	934	33	7	—	6	—
Germany (Federal)—							
Pyrites, etc.	(a)	(a)	—	—	6,496	19,686	14,599
Greece	7,660	21,028	29,506	4,990	46,327	149,878	174,409
Italy	(a)	72,082	81,549	87,209	88,408	146,091	107,920
Norway—							
Iron pyrites	168,058	164,005	206,236	172,372	183,381	159,871	191,731
Cupreous pyrites ..	156,708	227,378	274,429	234,526	199,540	129,154	138,836
Portugal—							
Cupreous pyrites ..	238,798	299,110	406,116	339,390	489,370	561,922	406,312
Spain—							
Iron pyrites	622,049	987,893	1,093,550	1,054,809	1,199,493	1,516,428	1,737,348
Cupreous pyrites ..	(a)	(a)	—	9,499	27,495	36,463	(a)
Sweden	124,586	109,985	64,653	54,478	60,689	4,036	10,236
Yugoslavia	(a)	(a)	(a)	(a)	172,922	158,583	157,289
Algeria	(a)	3,898	5,336	—	—	610	—

(a) Information not available.

IMPORTS OF PYRITES

(Less Re-exports)

(Long tons)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Iron and cupreous pyrites	161,905	175,055	212,803	230,323	191,636	347,688	505,101
Northern Rhodesia—							
Iron pyrites (c)	20,638	17,100	12,246	16,665	12,329	18,754	9,456
Irish Republic	30,752	30,582	41,193	38,487	45,293	42,303	34,288
FOREIGN COUNTRIES							
Austria (a)		20,981	26,766	25,480	75,649	138,835	131,661
Belgium-Luxemburg E.U. (a)		(a)	364,691	308,543	321,129	404,554	319,561
Czechoslovakia (a)	249,063	197,779	(b) 168,077	(a)	(a)	(a)	(a)
Denmark	72,740	110,852	136,944	128,829	144,857	148,007	106,632
France	563,243	511,270	594,057	635,144	548,091	693,604	629,146
Germany (Federal)—							
Pyrites, etc. (a)		(a)	454,580	278,942	628,961	785,468	996,450
Hungary	—	11,686	(a)	(a)	(a)	(a)	(a)
Italy—							
Iron-pyrites (a)		17,145	18,388	53,231	85,982	183,199	79,578
Cupreous pyrites .. (a)		(a)	—	5,224	—	12,359	7,190
Netherlands	139,987	253,987	258,549	252,023	312,851	375,944	428,941
Sweden	108,810	101,077	79,261	95,801	97,690	71,632	69,107
Algeria	—	—	2,972	3,030	3,144	11,261	1,857
United States	182,893	126,553	107,411	120,937	208,766	221,512	296,047
Japan (a)		(a)	(a)	(a)	9,676	29,796	68,201

(a) Information not available.

(b) January to October only.

(c) Exports from Southern to Northern Rhodesia.

SALT
PRODUCTION OF SALT
(Long tons)

Producing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Great Britain—							
Rock-salt	20,490	39,997	40,400	41,000	41,449	54,200	44,521
Brine-salt	875,281	851,625	902,537	895,145	956,403	1,040,796	940,357
Salt in brine (b)	2,456,779	2,247,277	2,831,917	2,807,418	3,234,475	3,577,798	2,952,408
Northern Ireland—							
Brine-salt	13,261	12,404	13,036	12,768	12,958	13,042	10,637
Mauritius—							
Sea-salt	3,115	3,928	3,350	5,118	2,565	3,350	2,165
South West Africa—							
Rock-salt	3,477	2,744	4,366	2,430	3,854	4,632	6,779
Other salt	10,423	9,705	10,249	13,514	12,699	39,250	32,733
Anglo-Egyptian Sudan	40,335	36,408	35,665	42,349	40,110	45,485	52,469
Kenya	15,388	13,836	16,547	18,523	18,426	19,084	16,750
Tanganyika	13,162	10,367	11,398	14,743	12,276	15,608	18,951
Uganda	5,589	6,892	2,992	7,283	7,296	7,745	4,043
Union of South Africa (c)	141,407	(a)	(a)	160,362	104,716	147,430	138,354
Canada—							
Rock-salt	(d) 34,260	21,357	23,132	38,663	49,258	64,996	73,679
Other salt (e)	446,084	629,129	638,708	630,100	717,573	795,323	795,256
British West Indies—							
Sea-salt—							
Bahamas (exports)	82,357	72,607	31,499	54,607	22,929	48,321	54,107
Leeward Islands (exports)	5,157	6,935	4,087	4,783	5,518	6,884	5,851
Turks and Caicos Islands	29,045	—	38,000	47,000	60,000	21,000	16,400
Aden	113,042	194,549	271,058	303,432	255,865	304,302	376,079
Burma	43,916	51,736	(f)	(f)	(f)	(f)	(f)
Ceylon	42,920	22,791	77,000	28,211	66,859	25,835	45,330
Cyprus	3,375	15,375	—	—	4,068	10,752	—
India—							
Rock-salt	259,041	4,532	4,058	4,229	5,049	5,443	5,992
Other salt	1,659,065	1,895,588	2,333,548	2,039,000	2,615,867	2,729,437	2,820,166
Pakistan—							
Rock-salt	(g)	198,110	153,988	167,700	(a)	(a)	(a)
Palestine—							
Rock-salt	1,546	(a)	(a)	(a)	(a)	(a)	(a)
Sea-salt	22,797	(a)	(a)	(a)	(a)	(a)	(a)
Australia (h)	(a)	(a)	260,000	245,000	265,000	300,000	277,000
New Zealand	—	—	—	—	—	—	700
Total*	6,370,000	6,600,000	8,000,000	7,500,000	8,700,000	9,500,000	8,840,000
FOREIGN COUNTRIES							
Austria—							
Rock-salt	545	4,278	1,724	708	1,068	681	1,122
Evaporated salt	77,752	80,958	80,052	74,569	90,058	93,815	80,760
France—							
Rock-salt (incl. refined)	387,448	471,794	543,976	428,058	348,143	423,803	411,937
Salt in brine	1,103,103	1,642,419	1,905,749	1,574,646	1,848,883	1,867,017	1,511,237
Sea-salt	469,220	460,028	439,487	730,989	595,000	407,463	(a)

* See page 281.

(a) Information not available.

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

(c) Years ended June 30 of that stated.

(d) Including a small amount of other salt.

(e) Including salt in brine.

(f) Included under Foreign Countries.

(g) Included with India.

(h) Estimated.

PRODUCTION OF SALT (Cont.)

Producing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Germany (Federal) ..	1,593,536	1,796,232	2,003,537	1,770,600	2,429,581	2,714,230	2,535,323
Greece—							
Sea-salt	(b) 75,000	(b) 85,000	(b) 55,000	85,405	100,713	81,132	94,000
Italy—							
Rock-salt and brine-salt	440,450	711,719	715,600	791,730	734,369	1,051,395	(a)
Sea-salt	780,320	937,070	870,085	464,458	563,775	391,831	(a)
Netherlands (brine-salt) ..	191,630	247,454	251,534	329,079	403,111	477,714	409,000
Poland—							
Rock-salt and brine-salt	269,758	333,723	412,968	443,326	654,000	(a)	504,000
Salt in brine	(a)	276,226	301,343	(a)	(a)	(a)	(a)
Portugal—							
Rock-salt	45	68	48	40	41	38	44
Sea-salt (exports) ..	81,663	24,675	10,492	16,636	30,279	28,911	22,590
Spain—							
Rock-salt	258,508	261,059	288,255	284,333	303,360	361,999	366,869
Sea-salt	502,064	560,350	685,598	538,248	887,336	879,189	881,699
Switzerland	90,635	106,055	107,106	(a)	(a)	112,000	(a)
Yugoslavia	(a)	(a)	(a)	(a)	129,000	94,000	(a)
Algeria—							
Brine-salt and sea-salt ..	65,519	80,759	71,884	95,369	75,054	95,593	80,058
Angola	60,683	38,170	58,902	40,634	39,834	48,451	(a)
Belgian Congo (rock-salt)	629	756	(a)	800	540	540	610
Canary Islands (sea-salt) ..	13,443	6,846	13,000	5,200	5,976	15,484	15,000
Cape Verde Islands	14,149	9,100	13,417	18,996	(a)	(a)	(a)
Egypt	(b) 350,000	(b) 350,000	(b) 350,000	344,352	530,503	597,452	490,522
Eritrea (sea-salt)	40,320	45,000	60,000	79,040	53,070	(a)	(a)
Ethiopia (b)	10,000	10,000	10,000	10,000	10,000	10,000	10,000
French Somaliland	31,700	47,000	58,700	67,000	79,000	54,300	63,400
Morocco (French)—							
Rock-salt, etc.	8,345	9,864	10,602	} 33,531	59,052	64,929	39,368
Brine-salt	40,328	33,557	23,902				
Morocco (Spanish)—							
Sea-salt (b)	250	250	250	250	250	250	250
Mozambique—							
Rock-salt	70	74	76	76	61	87	(a)
Sea-salt	6,919	9,936	9,865	10,755	9,724	(a)	(a)
Tunis (sea-salt)	91,925	112,979	103,578	96,535	92,616	144,193	84,163
Cuba (sea-salt)	55,885	50,416	54,465	(a)	(a)	49,473	55,119
Dominican Republic—							
Rock-salt	2,732	2,051	2,328	2,373	2,267	2,233	2,561
Sea-salt	15,497	14,682	12,872	8,012	12,398	7,964	16,482
Haiti (b)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Honduras	(a)	(a)	(a)	(a)	4,327	4,577	(b) 4,500
Mexico (b)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Netherlands West Indies ..	876	214	475	(a)	(a)	(a)	2,607
Nicaragua—							
Sea-salt	(b) 6,000	(b) 6,000	9,455	11,342	11,152	12,044	13,007
Panama (sea-salt)	15,664	8,722	3,320	4,278	9,826	11,689	12,804
Porto Rico (sea-salt) (b) ..	15,000	15,000	15,000	15,000	15,000	15,000	15,000
Salvador	68,135	16,452	21,172	(a)	(a)	(a)	18,000
United States (sales)—							
Rock-salt	3,046,436	3,352,101	3,434,684	3,075,304	3,506,488	4,162,673	4,100,000
Salt in brine	7,563,107	8,236,878	8,347,361	7,895,994	8,368,977	10,616,187	9,800,000
Evaporated salt	2,901,301	2,820,284	2,863,753	2,932,465	2,972,579	3,263,221	3,125,000
Argentina—							
Rock-salt	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Brine-salt	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Bolivia	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Brazil (sea-salt)	599,577	553,685	768,993	792,000	781,638	1,224,000	(a)
Chile	61,738	58,472	52,905	38,905	46,676	48,145	(a)

(a) Information not available.

(b) Estimated.

PRODUCTION OF SALT (Cont.)

Producing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Colombia—							
Rock-salt	91,000	89,126	93,027	100,376	105,229	108,346	164,981
Sea-salt	31,403	25,708	24,258	22,925	34,492	27,623	37,597
Costa Rica	8,000	6,153	6,500	8,100	8,300	5,359	2,500
Ecuador (sea-salt)	34,500	24,500	22,300	14,900	15,500	32,200	26,580
Guatemala—							
Sea-salt	(a)	(a)	(a)	(a)	11,300	11,800	(a)
Peru—							
Rock-salt	9,064	10,207	9,618	9,344	7,865	10,123	(a)
Sea-salt	37,101	43,300	47,430	42,476	52,105	52,299	(a)
Brine-salt	9,556	5,650	4,897	3,264	5,481	4,991	(a)
Venezuela (sea-salt)	89,125	35,229	34,972	70,790	55,547	38,305	114,217
Afghanistan	(a)	(a)	(a)	(a)	(a)	24,346	23,300
Burma—							
Sea-salt	(e)	(e)	42,705	29,609	18,020	60,675	56,701
Brine-salt	(e)	(e)	2,140	1,582	(b) 3,000	2,496	1,678
China (c)	1,656,000	1,975,000	2,440,000	2,000,000	2,500,000	3,000,000	(a)
Formosa	213,709	161,007	360,026	249,937	172,297	270,000	(a)
French Indo-China	(d) 14,502	40,900	63,100	111,786	74,526	92,425	130,830
Indonesia (g)	29,385	(a)	350,414	313,863	160,169	473,000	196,141
Iraq	9,362	12,435	13,120	9,025	11,673	15,413	18,993
Japan—							
Government-licensed plants	(f) 209,000	113,097	287,491	389,500	413,000	431,000	426,700
Others	(f) 143,759	(f) 130,460	(f) 47,012	(a)	(a)	(a)	(a)
Jordan (brine-salt)	(a)	(a)	100	(b) 5,000	(b) 10,000	(b) 10,000	7,260
Korea (South)	(a)	(a)	(a)	185,830	(a)	(a)	(a)
Lebanon (sea-salt)	(a)	(a)	(b) 5,000	(b) 2,500	(b) 6,500	(b) 7,000	12,000
Macao (exports)	7,446	4,695	4,104	(a)	(a)	(a)	(a)
Philippine Republic—							
Sea-salt	(a)	(a)	(a)	51,450	55,394	51,454	16,506
Portuguese India	(a)	20,000	(a)	(a)	(a)	(a)	(a)
Siam	135,427	(b) 150,000	(b) 200,000	(b) 150,000	(b) 200,000	(b) 400,000	(b) 250,000
Syria	15,193	20,401	20,000	20,809	20,000	5,306	19,368
Turkey—							
Rock-salt	19,896	26,552	27,742	17,637	20,009	22,474	24,605
Lake and spring salt	30,176	74,296	70,979	105,064	101,149	84,531	135,802
Sea-salt	152,973	171,622	164,005	188,647	179,263	159,518	150,767
TOTAL*	30,000,000	33,000,000	35,000,000	34,000,000	36,000,000	42,000,000	40,000,000
WORLD'S TOTAL*	36,000,000	39,500,000	43,000,000	41,500,000	44,700,000	51,500,000	48,800,000

* Salt is also produced in many countries for which statistics are not available, e.g., Gold Coast, Nigeria, Belgium, Bulgaria, Czechoslovakia, Roumania and U.S.S.R.; an allowance has been made for these and other countries where information is not available.

(a) Information not available.

(b) Estimated.

(c) U.S. Bureau of Mines.

(d) Cochin-China only.

(e) Included under British Countries.

(f) Years ended March 31 following that stated.

(g) Government production of brine-salt.

EXPORTS OF SALT

(Domestic Produce)

(Long tons)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Rock-salt	7,332	5,550	7,692	6,716	9,507	5,451	6,039
Other salt	170,315	142,413	194,817	209,118	250,988	274,906	270,177
Anglo-Egyptian Sudan ..	20,768	46,745	5,755	6,645	14,042	12,321	29,239
Gold Coast	1	1,579	403	1,214	727	1,099	803
Kenya	176	60	83	16	9	365	186
Southern Rhodesia ..	132	201	292	387	321	454	455
South West Africa—							
Rock salt	(a)	(a)	—	215	463	1,167	1,809
Coarse salt			—	214	2,781	22,847	12,733
Other			—	148	413	927	404
Tanganyika	3,427	3,110	2,937	2,952	3,874	3,811	4,254
Uganda	1,823	1,556	1,309	1,489	2,131	2,295	2,000
Union of South Africa ..	15,119	16,603	17,819	20,031	16,093	15,031	9,268
Canada	5,236	10,010	5,026	3,100	3,660	4,073	2,539
British West Indies—							
Bahamas (b)	82,357	72,607	31,499	54,607	22,929	48,321	54,107
Leeward Islands ..	5,157	6,935	4,087	4,783	5,518	6,884	5,851
Turks and Caicos Islands	19,541	70,340	70,685	52,718	9,553	22,500	10,300
Aden	84,187	317,740	278,649	228,048	235,516	337,569	342,196
Ceylon	27	213	2	83	158	1	—
Hong Kong (including re-exports)	10,504	14,638	11,850	10,236	5,946	2,461	1,896
India (c)	32,696	7,635	8,590	270	7,838	17,659	228,893
Malaya (including re-exports)	18,236	51,297	39,124	10,726	8,354	7,943	8,975
Australia—							
Rock-salt	108	3	85	6	353	24	1,552
Refined salt	(£A8,023)	(£A111,825)	543	10,311	2,126	856	8,170
Other salt	14,574	10,969	22,771	14,048	19,228	13,389	12,556
FOREIGN COUNTRIES							
Austria	6,705	7,604	5,597	3,379	6,428	6,048	1,889
Belgium-Luxemburg E.U.—							
Common salt	(a)	(a)	1	39	14	132	56
Refined salt	(a)	(a)	17	31	57	21	40
Denmark—							
Refined salt, etc. ..	54	240	71	417	178	81	84
France	128,670	183,614	295,342	190,394	108,341	122,452	75,106
Germany (Federal)—							
Rock-salt, sea-salt, etc. ..	(a)	(a)	388,138	534,310	583,574	691,434	609,738
Italy—							
Rock-salt and sea-salt ..	(a)	302,033	534,310	567,300	121,378	260,205	151,312
Netherlands—							
Rock-salt and sea-salt ..	—	85	—	—	—	—	79
Refined salt and waste ..	65,288	129,539	150,963	180,371	255,799	293,483	249,023
Norway—							
Common salt	3,271	6	59	2,298	1,552	3,970	474
Refined salt	4	30	4	1	18	22	35

(a) Information not available.

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

(c) Includes trade by land as recorded. Sea-borne trade only from 1947 inclusive.

EXPORTS OF SALT (Cont.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Poland	(a)	28,956	70,999	(a)	(a)	(a)	(a)
Portugal	81,663	24,675	10,492	16,636	30,279	28,911	22,590
Spain	327,412	339,195	360,177	263,985	176,004	362,638	(a)
Sweden	2,437	2,218	658	947	2,801	2,342	1,378
Algeria	10,022	15,629	43,004	42,891	22,288	14,213	20,918
Angola	17,173	21,732	(a)	16,471	18,324	21,796	(a)
Egypt—							
Common salt	222,519	613,263	354,397	455,817	201,224	341,424	79,200
French Somaliland ..	25,324	48,016	58,200	110,246	52,069	60,502	11,041
French West Africa ..	2,023	3,225	(a)	(a)	(a)	(a)	(a)
Madagascar	583	18	246	(a)	(a)	(a)	(a)
Mozambique	860	128	995	1,403	1,742	1,047	(a)
Morocco (French) ..	6,294	65	424	561	207	(a)	16
Morocco (Spanish) ..	800	398	(a)	(a)	(a)	(a)	(a)
Tunis (including re-exports)							
Rock-salt and sea-salt ..	14,909	60,436	175,797	152,609	102,138	117,175	99,804
Cuba	(a)	(a)	453	363	453	362	(a)
Mexico	—	1,969	10	2,050	45	19,738	28,117
Netherlands West Indies ..	876	214	475	248	326	933	(a)
Salvador	871	1,558	1,729	1,208	376	1,208	(a)
United States	199,488	168,131	327,394	321,229	169,979	392,068	312,474
Argentina	34,404	(a)	(a)	(a)	(a)	(a)	(a)
Brazil	482	209	238	41	(a)	12	9
Chile	148	99	—	(a)	(a)	(a)	(a)
Ecuador	(a)	(a)	(a)	(a)	(a)	(a)	(a)
China—							
Refined salt	24,048	9,842	(a)	(a)	(a)	} 98,000	(a)
Other salt	220,252	164,477	31,974	(a)	(a)		
Formosa	91,180	98,617	28,050	233,672	140,062	237,253	(a)
French Indo-China ..	(a)	—	22,699	39,640	(a)	(a)	(a)
Iran (including re-exports)(b)	1,255	1,035	1,180	930	2,039	1,750	(a)
Japan	(a)	3,248	(a)	(a)	(a)	304	(a)
Macao	7,446	4,695	4,104	(a)	(a)	(a)	(a)
Portuguese India	7,863	11,026	11,177	9,551	(a)	(a)	(a)
Siam	49,959	152,511	131,834	161,636	95,519	138,921	(a)
Turkey	52,723	35,093	28,738	48,058	(a)	76,576	81,392

(a) Information not available.

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

IMPORTS OF SALT

(Less Re-exports)

(Long tons)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Rock-salt	—	—	1	—	} 23,572	26,347	35,548
Other salt	15,808	104,252	42,420	39,968			
Channel Islands	522	770	634	556	613	615	(a)
Malta—							
Refined salt	(£1,772)	(£1,189)	(£1,464)	(£2,007)	(£1,618)	(£1,925)	(£1,823)
Other salt	2	1	—	(£228)	(£202)	1	304
Anglo-Egyptian Sudan	259	217	269	194	223	57	93
Gambia	2	147	869	648	924	270	563
Gold Coast—							
Refined salt	15	36	20	26	38	75	25
Other salt	406	471	850	1,099	2,127	3,823	1,718
Kenya (c)	2,117	7,030	6,436	688	778	694	4,847
Mauritius	—	—	—	—	—	804	1
Nigeria	67,723	79,364	77,410	75,806	63,417	94,801	82,328
Northern Rhodesia	4,475	3,677	5,083	5,711	6,116	6,468	7,228
Nyasaland	5,552	2,735	3,233	5,202	4,474	3,608	4,993
Seychelles	—	86	312	157	706	84	54
Sierra Leone	3,868	2,988	4,160	6,159	2,875	5,047	4,109
Somaliland	1,310	(a)	(a)	(a)	(a)	5	(a)
South West Africa	488	986	536	442	451	304	(a)
Southern Rhodesia	4,853	11,044	12,494	15,191	13,377	19,272	17,406
Tanganyika	584	194	577	3,209	1,568	1,614	7,933
Uganda	(d)	(d)	(d)	5,585	4,753	6,158	13,395
Union of South Africa—							
Rock-salt	76	205	117	197	196	27	(a)
Common salt and refined salt	1,891	767	2,173	2,791	2,890	8,235	(a)
Zanzibar	3,078	822	2,298	1,220	1,187	1,717	934
Canada (total imports) (e)—							
Salt for use of fisheries	44,516	45,663	26,172	74,334	51,410	52,750	62,097
Refined salt	1,365	36	—	—	—	17	29
Other salt	157,959	150,622	139,611	136,994	161,303	178,324	195,127
Newfoundland (f)—							
Salt in bulk	60,819	60,328	59,608	(f)	(f)	(f)	(f)
Refined salt	731	848	682	(f)	(f)	(f)	(f)
British Honduras	453	457	403	323	382	411	257
British West Indies—							
Barbados	2,957	2,069	2,237	2,416	2,294	2,348	2,596
Bermuda	118	156	134	174	158	(a)	152
Dominica	247	342	398	212	415	144	(a)
Grenada	707	836	1,109	340	680	781	546
Jamaica—							
Rock-salt	16	116	20	18	45	27	(a)
Other salt	9,937	8,880	10,836	6,028	9,654	9,531	(a)
Leeward Islands	264	409	197	242	264	469	168
St. Lucia—							
Common salt	476	482	420	375	469	1,040	660
Refined salt	17	3	11	13	15	32	23
St. Vincent—							
Unrefined salt	360	537	310	363	292	387	220
Refined salt	28	113	18	74	56	84	221
Trinidad and Tobago—							
Rock and coarse salt	147	606	207	545	732	581	462
Refined salt	2,598	4,752	3,739	4,365	4,489	4,690	4,043
British Guiana—							
Rock-salt	543	608	409	597	496	688	341
Refined salt, etc.	1,432	1,307	1,840	1,318	1,870	1,793	2,016

(a) Information not available.

(b) Excess of re-exports.

(c) Including Uganda up to 1948 inclusive.

(d) Included with Kenya.

(e) Including Newfoundland from April 1, 1949.

(f) Years ended March 31 following that stated. Included with Canada from April 1, 1949

IMPORTS OF SALT (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES (Cont.)							
Aden	1	5	7	8	7	12	21
Brunei	(a)	70	97	153	178	(a)	(a)
Burma	(b) 1,548	(a)	(a)	(a)	(a)	(a)	(a)
Ceylon—							
Refined salt	2	1	3	14	8	18	
Other salt	15	10	24	21	30	22	30
Cyprus	15	6	44	25	17	56	43
Hong Kong (total imports)	25,249	55,086	49,412	76,371	45,072	29,174	27,738
India	85,505	306,349	345,576	248,865	146,875	2,351	2,070
Malaya (total imports)—							
Refined salt	477	52	59	83	110	135	127
Other salt	80,866	80,441	91,629	66,350	77,332	66,399	71,740
North Borneo	(a)	(a)	175	2,017	2,012	2,242	2,184
Palestine	814	(a)	(a)	(a)	(a)	(a)	(a)
Sarawak	(c) 2,617	2,413	3,359	3,416	3,356	3,491	3,786
Australia—							
Rock-salt	2,850	2,669	3,865	5,020	6,332	4,049	2,095
Refined salt	1,012	1,562	2,562	1,880	1,951	4,561	2,294
Other salt	26	115	220	1,830	3,420	7,678	2,246
Fiji	1,240	1,524	1,621	890	867	1,179	2,692
New Guinea (f)	(a)	(a)	(£42,685)	(£43,884)	(£45,262)	(£4384)	617
New Zealand	41,614	57,329	50,774	53,226	43,069	39,236	72,209
Papua (f)	(a)	(a)	(a)	100	(£A1,675)	122	(a)
Solomon Islands (d)	2	6	8	5	7	9	(g) 15
Western Samoa	(a)	(a)	142	80	119	102	322
Irish Republic							
Refined salt	3,489	3,346	3,148	3,748	2,815	2,558	3,805
Other salt	29,581	29,109	26,377	27,186	26,222	26,857	24,685
FOREIGN COUNTRIES							
Austria—							
Common salt	(a)	—	2,667	636	91	—	81
Belgium-Luxemburg E.U.—							
Common salt	(a)	(a)	382,398	295,409	310,443	428,049	323,689
Refined salt	(a)	(a)	68,606	70,012	96,271	68,113	72,133
Bulgaria—							
Rock-salt	8,893	(a)	(a)	(a)	(a)	(a)	(a)
Czechoslovakia—							
Common salt	113,358	141,848	(e) 201,510	(a)	(a)	(a)	(a)
Refined salt	137,225	94,350	(e) 160,267	(a)	(a)	(a)	(a)
Denmark—							
Rock-salt	166	58	146	796	1,511	1,050	1,955
Refined salt	98,341	119,121	84,781	82,481	96,396	102,387	102,359
Finland (total imports)—							
Common salt	108,594	112,431	128,815	65,823	91,617	104,594	89,591
France	1,464	9,181	16,058	11,112	16,510	14,702	14,797
Germany (Federal)—							
Rock-salt, sea-salt, etc.	(a)	(a)	141	255	16	—	—
Hungary	51,971	89,438	(a)	(a)	(a)	(a)	(a)
Iceland—							
Common salt	19,879	42,623	20,734	20,977	55,611	27,068	(a)
Refined salt	30	75	109	54	94	129	(a)
Netherlands—							
Rock-salt	21,694	37,099	58,802	30,537	57,101	59,037	65,486
Sea-salt, etc.	28,296	42,704	45,799	9,150	3,452	4,447	3,185
Refined salt	1	(a)	(a)	(a)	4	41	11

(a) Information not available.

(b) February to September only.

(c) April 15 to December 31 only.

(d) Years ended March 31 following that stated.

(e) January to October only.

(f) Years ended June 30 of that stated.

(g) Calendar year.

IMPORTS OF SALT (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Norway—							
Common salt	199,335	231,580	234,160	209,449	217,484	219,295	227,492
Refined salt	15,504	14,968	20,240	19,703	29,012	34,992	40,641
Portugal	9	176	26	8	44	29	5
Sweden—							
Common salt	243,671	290,643	287,745	324,243	348,228	340,218	313,813
Switzerland	472	246	382	259	269	295	583
Yugoslavia	(a)	(a)	(a)	(a)	104,356	41,320	27,887
Algeria	3,089	2,486	1,391	518	127	133	132
Belgian Congo	31,846	25,050	22,995	31,141	31,594	31,452	39,058
Cameroon (French) ..	4,851	10,059	10,173	6,047	9,937	5,625	6,139
Egypt—							
Common salt	197	135	271	216	317	285	181
Ethiopia (b)	42,752	45,000	42,000	49,595	48,663	50,200	50,866
French Equatorial Africa	5,027	5,318	7,003	10,695	5,909	5,734	8,073
French Togoland	3,493	7,154	957	2,905	4,023	9,747	3,100
French West Africa ..	1,299	929	3,095	5,985	9,446	6,654	(a)
Madagascar	519	4,201	9,032	2,452	621	182	(a)
Morocco (French)	7,409	3,702	2,655	1,919	1,736	(a)	3,615
Morocco (Spanish) .. .	8,067	5,092	(a)	(a)	(a)	(a)	(a)
Mozambique	5,121	3,332	3,801	3,247	5,438	2,636	(a)
Portuguese Guinea .. .	1,131	808	908	761	(a)	(a)	(a)
Réunion	969	(a)	1,037	1,347	(a)	1,149	1,117
S. Thomé and Príncipe ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Costa Rica	191	(a)	189	125	(a)	(a)	(a)
Cuba (total imports) ..	(a)	(a)	6,526	8,287	10,639	13,392	(a)
French West Indies—							
Guadeloupe	1,518	(a)	(a)	(a)	1,809	1,822	(a)
Martinique	1,216	2,341	1,916	1,212	2,369	1,775	(a)
Guatemala	(a)	1,478	954	3,865	1,771	(a)	(a)
Honduras (d)	(a)	543	755	1,450	286	951	(a)
Mexico	6,063	5,133	3,629	1,866	111	471	638
Netherlands West Indies ..	229	248	270	353	520	(a)	(a)
Nicaragua (total imports)	370	251	(a)	(a)	(a)	(a)	(a)
St. Pierre and Miquelon ..	3,296	4,120	7,143	4,815	4,006	—	4
United States	3,797	1,704	5,019	5,633	7,026	3,865	6,300
Argentina—							
Rock-salt	217	} (a)	(a)	(a)	(a)	(a)	(a)
Sea-salt	—						
Refined salt	129						
Brazil (total imports)—							
Common salt	23,463	15,303	177	—	(a)	711	146
Refined salt	1,040	890	66	—	(a)	—	—
Chile	147	(a)	(a)	(a)	(a)	(a)	(a)
Colombia	291	(a)	(a)	(a)	(a)	(a)	(a)
Dutch Guiana	925	932	769	(a)	(a)	(a)	(a)
French Guiana	364	(a)	(a)	(a)	360	—	141
Peru	209	(a)	(a)	—	(a)	2	15
Uruguay—							
Refined salt	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Rock-salt	150	230	50	8,811	10,586	130	(a)
Coarse salt	63,948	32,411	32,769	38,127	46,064	34,964	(a)
French Indo-China	3,622	9,507	9,505	1,217	755	712	(a)
Iran (c)—							
Common salt	1,535	2,261	24	2	—	293	(a)
Refined salt	33	13	14	38	7	8	(a)
Iraq	25	(a)	(a)	(a)	(a)	(a)	(a)
Japan	264,555	773,586	1,182,229	1,798,736	632,662	1,779,503	1,447,293
Korea	11,747	95,430	114,261	(a)	(a)	(a)	(a)
Syria and Lebanon	4,098	4,918	(a)	(a)	(a)	(a)	(a)
New Caledonia	907	201	424	523	47	592	417

(a) Information not available.

(b) Years ended September 10 of that stated.

(c) Total imports for years ended March 20 of year following that stated.

(d) Years ended June 30 of that stated.

SILLIMANITE, ETC.
PRODUCTION OF SILLIMANITE, ETC.
(Long tons)

Producing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Bechuanaland Protectorate—							
Kyanite	—	—	—	—	—	1,984	2,130
Kenya—							
Kyanite	2,631	14,447	14,600	23,263	8,834	2,640	961
Mullite	—	31	—	—	2,311	8,000	7,475
Nyasaland—							
Kyanite	—	—	—	—	—	—	40
South West Africa—							
Kyanite and sillimanite	—	—	—	—	—	58	2,679
Union of South Africa—							
Andalusite	5,407	10,309	3,387	4,127	7,429	(d) 11,306	(d) 19,176
India—							
Kyanite	13,489	14,351	12,605	19,949	35,488	42,501	26,882
Sillimanite	66	236	213	974	1,475	4,048	5,076
Australia—							
Kyanite	140	2,931	1,125	—	—	—	—
Sillimanite	(b) 754	(b) 449	696	961	(b) 1,581	(b) 871	1,333
FOREIGN COUNTRIES							
Sweden—							
Andalusite	7,298	(c) 900	(c) 2,725	—	670	—	—
United States—							
Kyanite	(a)	(a)	12,993	10,817	(a)	(a)	(a)

(a) Information not available.

(b) Including some andalusite.

(c) Including andalusite quarried for concentrating.

(d) Including sillimanite.

EXPORTS OF SILLIMANITE, ETC.
(Domestic Produce)
(Long tons)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Kenya—							
Kyanite (incl. mullite)	(a)	(a)	13,760	18,907	9,588	9,894	8,578
Nyasaland—							
Kyanite	—	—	—	—	—	—	40
South West Africa—							
Kyanite	—	—	—	—	—	—	1,719
Sillimanite	—	—	—	—	—	49	390
Union of South Africa—							
Andalusite and sillimanite	(a)	(a)	(a)	(a)	—	1,530	5,430
India—							
Kyanite	13,062	14,720	15,841	14,831	32,496	25,176	26,772
Sillimanite	—	—	—	77	471	2,504	4,214
Australia (b)—							
Kyanite	(a)	(a)	2,800	30	—	—	—
FOREIGN COUNTRIES							
United States—							
Kyanite, etc.	305	239	413	928	940	884	1,008

(a) Information not available.
(b) Year ended June 30 of that stated.

IMPORTS OF SILLIMANITE, ETC.*
(Less Re-exports)
(Long tons)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Canada—							
Kyanite	375	453	472	979	509	724	1,156
Australia—							
Kyanite	(a)	(a)	(a)	(a)	949	—	—
Sillimanite	(a)	(a)	(a)	—	—	28	70
FOREIGN COUNTRIES							
France—							
Kyanite	(a)	(a)	(a)	(a)	(a)	1,399	1,249
Sillimanite	(a)	(a)	(a)	(a)	(a)	775	1,204
United States—							
Kyanite, sillimanite, etc.	10 156	10,877	15,260	10 821	15,551	17,473	8,087

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

(a) Information not available.

SILVER

PRODUCTION OF SILVER ORE

(In terms of metal)

(Fine troy ounces)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Great Britain	23,285	23,522	15,942	13,996	18,153	26,777	30,734
Bechuanaland Protectorate	1,704	1,081	233	27	39	70	282
Gold Coast (b)	54,526	41,250	45,553	40,051	43,317	52,853	44,146
Kenya	5,493	3,859	3,184	2,279	2,586	2,150	17,315
Nigeria	666	2,130	4,269	484	304	213	183
Northern Rhodesia (c)	634,392	73,277	145,865	134,920	173,304	100,702	348,954
Southern Rhodesia	95,168	91,901	81,404	84,495	85,549	79,731	81,356
South West Africa	(a)	(f) 390,000	(d) 400,000	(d) 659,000	(i) 630,111	(i) 810,934	(i) 925,374
Swaziland	—	211	124	120	60	18	—
Tanganyika	21,682	21,131	25,340	26,886	(e) 50,624	(e) 111,348	(e) 172,083
Uganda (b)	205	87	56	42	35	14	14
Union of South Africa	1,207,373	1,147,694	1,170,951	1,159,375	1,119,135	1,162,588	1,176,433
Canada	12,544,100	12,504,018	16,109,982	} 17,641,493	23,221,431	23,125,825	25,177,862
Newfoundland	1,107,827	956,052	882,263				
Cyprus	—	87	—	—	—	—	—
India	9,821	12,422	12,797	11,275	15,676	14,612	17,675
Australia	9,045,280	9,527,140	10,057,519	9,849,213	10,677,456	10,792,032	11,425,872
Fiji	26,351	33,238	29,187	29,755	37,740	24,869	25,838
New Guinea (h)	(a)	(a)	(a)	41,911	36,189	38,556	53,429
New Zealand	224,341	221,984	232,563	232,599	199,701	133,291	51,016
Total	25,002,000	25,051,000	29,217,000	29,925,000	36,312,000	36,476,300	39,549,000
FOREIGN COUNTRIES							
Austria	—	—	(a)	1,318	868	6,108	4,501
Czechoslovakia	(g) 600,000	(g) 1,400,000	(g) 1,600,000	(a)	(a)	(a)	(a)
Finland	140,209	188,821	167,602	168,026	115,936	157,281	150,080
France	535,214	474,320	494,414	570,901	719,855	705,902	(a)
Germany (Federal)	(a)	(a)	867,459	1,601,782	1,637,116	1,819,957	1,877,700
Greece	(a)	(a)	(a)	(a)	(a)	74,590	65,600
Italy	311,900	512,300	596,000	702,400	688,900	702,500	693,900
Norway	201,926	226,679	216,667	169,881	168,181	165,015	146,704
Portugal	(a)	7,395	35,366	31,958	68,288	65,427	77,740
Roumania	(a)	481,200	(a)	(a)	(a)	(a)	(a)
Spain	668,993	638,192	371,547	514,283	585,938	613,436	828,075
Sweden	1,294,935	1,088,656	1,137,943	1,140,708	1,275,709	1,145,917	(a)
Yugoslavia (refined)	(a)	1,155,851	1,504,237	1,917,792	2,386,839	3,032,008	2,577,043
Algeria	39,996	48,226	29,740	32,472	32,119	8,681	(a)
Belgian Congo	5,048,000	4,051,000	3,805,619	4,549,300	4,459,300	3,795,070	4,727,252
Morocco (French)	117,157	375,782	487,598	491,906	1,007,900	1,569,000	3,826,260
Mozambique	804	707	616	244	71	96	(a)
Tunis	60,122	53,852	16,011	68,320	71,825	61,119	69,413
Costa Rica	600	1,500	3,000	700	200	(a)	(a)

(a) Information not available.

(b) Exports.

(c) Recovered from copper-refinery slimes. The 1946 figure includes an accumulation of the war years.

(d) Estimated.

(e) Including silver in lead concentrates exported amounting to 20,585; 77,273; and 135,212 fine troy ounces in 1950; 1951 and 1952 respectively.

(f) Estimated content of ores sorted ex dumps.

(g) U.S. Bureau of Mines estimate.

(h) Years ended June 30 of that stated.

(i) Accounted for by smelters.

PRODUCTION OF SILVER ORE (Cont.)

Producing Country	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Cuba	127,222	146,932	185,216	(b) 157,411	(b) 221,779	(b) 172,318	(a)
Honduras	2,682,910	2,403,500	3,172,027	3,378,000	3,514,976	3,182,502	3,650,599
Mexico	43,263,132	58,843,864	57,519,704	49,454,883	49,141,445	43,797,735	50,353,561
Nicaragua	257,000	215,293	214,628	206,604	187,953	206,882	238,389
Panama	(a)	(a)	(a)	(a)	(a)	5,026	—
Salvador	291,689	285,893	216,342	280,259	462,840	323,793	349,182
United States	22,914,604	35,823,563	38,096,031	34,674,952	42,459,014	39,766,779	39,100,923
Argentina (f)	3,090,000	2,435,400	1,201,900	1,249,421	1,150,000	1,253,879	962,948
Bolivia (c)	6,106,165	6,265,505	7,562,208	6,637,296	6,548,110	7,164,118	7,065,608
Brazil	21,965	20,291	23,084	21,041	21,155	20,319	17,301
Chile	557,333	763,130	861,962	799,674	742,489	983,491	1,246,356
Colombia	152,651	110,830	108,716	106,674	116,104	130,028	123,165
Ecuador	254,271	134,100	205,800	276,900	273,200	33,600	82,200
Peru	12,334,249	10,782,995	9,288,703	10,609,649	(g)14,758,403	(g)17,379,137	17,070,043
Burma	(a)	(a)	(d) 700,000	75,200	(a)	280,720	154,783
Formosa	(a)	(a)	7,269	2,778	2,098	1,640	(a)
Japan	1,244,620	1,792,082	2,185,608	2,744,452	3,964,733	4,610,031	5,177,909
Korea	(a)	(e) 66,956	(e) 38,504	(e) 18,937	(a)	(a)	(a)
Philippine Republic	913	44,816	150,760	218,433	216,034	274,602	693,751
Saudi Arabia	31,307	49,805	67,819	81,295	124,287	109,912	(a)
Turkey	(a)	(a)	(a)	580,000	(a)	(a)	(a)
Total* (g)	100,000,000	133,000,000	136,000,000	126,000,000	140,000,000	136,000,000	146,000,000
WORLD'S TOTAL* (g) ..	125,000,000	158,000,000	165,000,000	156,000,000	177,000,000	173,000,000	186,000,000

* Totals have been revised to exclude estimates for the U.S.S.R. for which no authentic figures are available. (In 1951 Russian production is estimated by one authority to be in the order of 25,000,000 troy ounces). An allowance has, however, been made for those other countries where information is not yet available.

(a) Information not available.

(b) Imports into the United States.

(c) Exports.

(d) Year ended June 30 following that stated.

(e) South Korea only.

(f) U.S. Bureau of Mines.

(g) Revised.

EXPORTS OF SILVER*

(Including re-exports)

(In terms of metal)

(Fine troy ounces)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Refined bullion	19,319,584	30,239,428	11,176,381	18,814,049	21,582,042	18,111,753	13,746,387
Malta—							
Bullion and scrap	3,400	—	1,900	—	1,300	1,400	2,000
Anglo-Egyptian Sudan—							
Bullion	—	—	—	—	1,200	900	(a)
Gold Coast—							
Bullion	54,526	41,250	45,553	40,051	43,317	52,853	44,116
Northern Rhodesia—							
Refined bullion	40	—	—	—	—	—	—
Southern Rhodesia—							
Bullion	95,645	90,370	81,001	81,308	84,227	78,935	83,898
Tanganyika—							
Concentrates	—	—	—	—	20,585	77,273	135,212
Refined bullion	21,336	20,854	25,010	27,631	31,014	36,271	35,900
Uganda—							
Bullion	205	87	56	42	35	14	14
Union of South Africa—							
Bullion	408,651	222	603,626	1,102,479	506,959	248	—
Zanzibar—							
Bullion	—	2,100	—	—	—	—	—
British West Indies—							
Trinidad and Tobago—							
Bullion	129	—	1,700	(a)	40,000	—	—
Canada—							
Ore, concentrates, etc. ..	1,863,817	2,722,261	3,294,691	4,054,614	3,494,107	2,413,288	3,546,448
Bullion	3,116,146	7,913,730	5,814,573	6,211,912	8,355,183	16,183,364	14,928,515
Burma—							
Bullion	(d) 78,257	(a)	(a)	(a)	(a)	(a)	(a)
Hong Kong—							
Bullion	6,442,000	10,002,000	4,366,000	(a)	5,021,000	2,139,000	1,980,000
India—							
Bullion	(c) 20,800	(c) —	(c) 200	—	—	—	—
Malaya—							
Bullion	1,600	36,700	98,700	(a)	354,300	215,600	1,204,400
Australia—							
Ores and concentrates ..	(b) 358,779	(b) 726,627	(b) 1,235,056	640,000	1,390,000	1,400,000	1,324,843
Silver-lead bullion ..	(a)	(a)	(b) 1,675,920	2,905,518	2,623,698	2,446,983	2,264,284
Bullion (refined) ..	228,149	2,896,826	5,385,887	4,555,738	7,488,141	7,180,541	5,954,090
Fiji—							
Bullion	16,700	34,933	40,222	32,481	29,065	31,408	22,035
New Guinea (b)—							
Bullion	(a)	(a)	(a)	38,691	36,326	38,639	53,429
New Zealand—							
Scrap, sweepings, etc.	2,229	7,951	1,737	3,918	12,630	2,106	84
Bullion, etc	55,000	(e) 101,485	(e) 145,436	(e) 85,721	93,000	2,000	750
FOREIGN COUNTRIES							
Czechoslovakia—							
Bullion	(a)	290,000	(a)	(a)	(a)	(a)	(a)

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

(a) Information not available.

(b) Years ended June 30 of that stated.

(c) Sea-borne trade only.

(d) February to September only.

(e) Gross Weight.

EXPORTS OF SILVER (Cont.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Denmark—							
Bullion	52,000	22,500	64,000	61,000	56,000	47,000	57,000
Beaten, rolled or drawn	40,000	93,000	79,800	1,453,000	5,000	2,400	1,400
France—							
Bullion	(a)	(a)	(a)	(a)	(a)	278,000	666,000
Beaten, rolled or drawn	250,000	100,000	260,000	135,000	197,000	190,000	169,000
Italy—							
Bullion, etc.	(c) 980,000	(c) 300	(c) 3,000	(c) 16,000	(c) 3,600	(c) 19,000	(c) 79,000
Netherlands—							
Bullion and scrap ..	420,000	459,000	360,000	(a)	256,000	6,912,000	789,000
Sweden—							
Bullion	300,000	250,000	110,000	135,000	250,000	233,000	174,000
Switzerland—							
Bullion	8,000	130,000	530,000	560,000	551,000	112,000	13,700
Morocco (French)—							
Bullion	(a)	(a)	(a)	(a)	(a)	(a)	299,000
Honduras (b)—							
Bullion	(a)	(a)	(a)	(a)	4,550,144	(a)	(a)
Mexico—							
Bullion, etc.	36,300,000	44,000,000	42,000,000	44,900,000	42,700,000	29,000,000	24,000,000
Nicaragua—							
Concentrates	235,000	213,400	(d) 216,800	(d) 109,100	(d) 133,300	(d) 141,764	(a)
Salvador—							
Bullion	313,200	265,100	216,300	286,000	411,000	(a)	(a)
United States—							
Ore and base bullion ..	10,070	} 40,000,000	(a)	{ (a)	(a)	(a)	(a)
Refined bullion	39,793,263		(a)		3,006,741	4,598,285	(a)	(a)
Bolivia—							
Ores, etc.	6,106,000	6,266,000	7,562,000	6,637,000	6,548,110	7,164,118	7,065,608
Chile—							
Ore	(a)	(a)	(a)	(a)	(a)		(a)
Peru—							
Ores, concentrates, etc. . .	1,000,000	2,680,000	1,347,000	3,678,000	4,500,000	} 13,000,000	16,000,000
Bullion	6,006,000	5,000,000	2,857,000	5,530,000	7,200,000		

(a) Information not available.

(b) Years ended July 31 of year stated.

(c) Gross weight.

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

TOTAL IMPORTS OF SILVER*

(In terms of metal)

(Fine troy ounces)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Ores	553,000	2,486,000	1,786,000	(a)	3,075,000	2,805,000	3,668,000
Unrefined bullion	838,000	1,028,000	870,917	1,906,000	2,601,654	1,590,915	1,840,268
Refined bullion	32,675,000	33,711,000	7,617,058	12,965,000	7,287,943	10,191,575	8,381,916
Malta—							
Bullion	6,600	9,300	8,200	(a)	1,900	3,700	3,200
Anglo-Egyptian Sudan—							
Bullion	—	6,300	—	(a)	320	30	(a)
Gold Coast—							
Bullion	2	2,440	1,437	31,528	28,870	59,954	148,277
Kenya and Uganda—							
Bullion	—	1,800	800	(a)	700	300	200
Nigeria—							
Bullion	10,388	17,901	10,538	16,816	6,601	47,575	4,574
Sierra Leone—							
Bullion	195	186	—	—	381	1,251	2,633
Union of South Africa—							
Bullion	129,559	116,066	115,796	240,303	25,302	20,768	(a)
Zanzibar—							
Bullion	—	2,100	—	(a)	—	50	—
Canada—							
Bullion	1,927,922	71,499	717,817	1,332,713	341,605	1,050,299	145,898
British Guiana—							
Bullion	780	150	—	—	—	90	40
British West Indies—							
Trinidad and Tobago—							
Bullion	2,000	2,700	200	(a)	100	40	—
Ceylon—							
Bullion	23,000	26,000	124,000	(a)	23,000	37,000	40,000
Cyprus—							
Bullion	1,300	19,300	5,800	(a)	2,800	4,800	3,300
Hong Kong—							
Bullion	11,000	1,000	147,000	(a)	1,055,000	893,000	1,027,000
India (b)—							
Bullion	46,945,674	d 39,956,850	(d) 4,234,531	(d) 100,921	(d) 112,207	(d) 135,395	(d) 107,762
Malaya—							
Bullion	700	30,600	—	(a)	1,800	5,400	200
Palestine—							
Bullion	19,300	(a)	(a)	(a)	(a)	(a)	(a)
Australia—							
Matte (c)	(a)	(a)	(a)	—	—	—	1,200
Bullion	19,000	44,000	40,327	30,081	74,688	79,186	123,240
Fiji—							
Bullion	2,800	530	122	125	119	233	—
New Zealand—							
Bullion	} 3,000	} 2,800	} 3,700	{ 400	} 121	} 674	} 315
Beaten, rolled drawn								{ (e) 152,350	} 7,400	} 5,800	} 630
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Bullion and scrap	} (a)	} 1,590,000	} (a)	} (a)	} (a)	} 4,557,000	} (a)
Beaten, rolled or drawn							

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

(a) Information not available.

(b) Includes trade by land as recorded.

(c) Years ended June 30 of that stated.

(d) Sea-borne trade only.

(e) Gross weight.

IMPORTS OF SILVER (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Czechoslovakia—							
Bullion and scrap ..	—	60,000	—	(a)	(a)	(a)	(a)
Denmark—							
Bullion	2,155,000	749,000	809,000	1,189,000	1,260,000	836,000	1,065,000
Beaten, rolled or drawn	1,200,000	494,000	379,000	577,000	688,000	1,032,000	849,000
Finland—							
Bullion, etc.	15,000	14,000	15,000	(b) 46,000	112,000	1,360,000	(a)
France—							
Bullion	(a)	150,000	(a)	(a)	(a)	(b) 969,000	1,693,000
Beaten, rolled or drawn	10,000	37,000	54,000	(b) 64,000	153,000	597,000	57,000
Italy—							
Bullion, etc. (b)	12,900	1,121,000	532,000	1,213,000	653,000	1,218,000	2,850,000
Netherlands—							
Bullion and scrap ..	504,000	629,000	915,000	(a)	1,528,000	(b) 1,247,000	1,211,000
Norway—							
Bullion	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Beaten, rolled or drawn	568,000	804,000	507,000	600,000	700,000	577,000	906,000
Sweden—							
Bullion	4,000,000	1,500,000	2,100,000	2,300,000	3,800,000	1,800,000	1,124,000
Switzerland—							
Bullion	3,000,000	1,500,000	836,000	750,000	1,020,000	3,110,000	1,950,000
Algeria—							
Bullion, etc.	6,200	13,400	83,000	69,000	63,000	76,000	130,000
Egypt—							
Bullion and scrap ..	280,000	—	366,000	880,000	(a)	(a)	(a)
Tunis—							
Beaten, rolled or drawn	—	—	100	(a)	(a)	(a)	(a)
Guatemala—							
Bullion	(a)	(a)	8,200	2,300	10,000	—	(a)
United States—							
Ore and base bullion ..	28,738,365	} 91,000,000	(a)	{ 31,997,848	33,898,797	(a)	(a)
Refined bullion	32,954,607							{ 63,793,953	74,150,114
Brazil—							
Bullion	1,360,000	384,000	481,000	(b) 626,000	(a)	(a)	(a)
Colombia—							
Bullion	1,390,000	(a)	(a)	(a)	(a)	(a)	(a)
Turkey—							
Bullion, etc.	60	1,500	2,700,000	(a)	(a)	7,600	112,000

(a) Information not available.

(b) Gross weight.

STRONTIUM MINERALS
PRODUCTION OF STRONTIUM MINERALS
(Long tons)

Producing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Celestite	—	5,012	7,407	4,794	6,653	16,350	8,100
Pakistan—							
Celestite	—	—	(a)	(a)	(a)	136	431
FOREIGN COUNTRIES							
France—							
Celestite	(a)	(a)	276	(a)	(a)	(a)	(a)
Tunis—							
Celestite	44	44	15	—	—	24	—
Strontianite	68	185	103	—	148	399	30
Mexico (c)—							
Celestite	1,614	3,440	869	1,142	1,707	1,932	1,178
United States (b)—							
Celestite	217	—	—	—	—	—	—

Strontianite is also produced in Germany.

(a) Information not available.

(b) Shipments.

(c) Exports.

(d) Imports into the United States from Mexico.

EXPORTS OF STRONTIUM MINERALS, ETC.
(Domestic Produce)
(Long tons)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Celestite (b)	2,259	3,879	5,395	4,378	5,942	10,689	7,286
FOREIGN COUNTRIES							
France—							
Strontium compounds ..	13	9	(a)	(a)	(a)	16	6
Germany (Federal)							
Strontianite and witherite	(a)	(a)	15	20	18	(c) 49	(a)
Strontium compounds ..	(a)	(a)	—	—	11	15	—
Italy—							
Strontianite and celestite	(a)	(a)	(a)	(a)	(d) 159	962	1
Spain—							
Celestite (b)	—	5,211	13,048	2,913	—	—	—
Tunis—							
Strontium minerals ..	(a)	(a)	103	(a)	(a)	(a)	(a)
Mexico—							
Celestite	1,614	3,440	869	1,142	1,707	1,932	1,178

(a) Information not available.

(d) July to December only.

(b) Imports into the United States from the country stated. In the case of Spain this was probably from stocks produced during the war years.

(c) January to September only.

IMPORTS OF STRONTIUM MINERALS, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES							
France—							
Celestite	15	10	(a)	(a)	(a)	111	483
Strontium compounds ..	13	11	(a)	(a)	(a)	(a)	(a)
Mexico—							
Strontium carbonate ..	—	(a)	(a)	(a)	(a)	(a)	(a)
United States—							
Strontianite and celestite	4,024	12,604	19,438	8,379	7,706	12,539	8,497
Strontium compounds ..	—	13	1	20	16	—	(a)
Chile—							
Strontium compounds ..	(12 cwt.)	(a)	(a)	(a)	(a)	(a)	(a)
Turkey—							
Strontium compounds ..	—	1	10	1	—	1	1

(a) Information not available.

SULPHUR
PRODUCTION OF SULPHUR*
(Long tons)

Producing Country and Description	Estimated Sulphur Content													
	1946	1947	1948	1949	1950	1951	1952	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES														
United Kingdom—														
Spent oxide (b) ..	217,700	223,000	238,300	218,300	244,000	304,804	238,075	104,500	107,000	114,400	104,800	117,100	146,300	114,300
Canada—	(a)	(a)	(a)	(a)	(a)	(a)	(a)	123,422	124,236	127,087	128,830	134,540	139,667	143,347
Smelter gas ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)	63,000	74,500	81,690	100,009	107,900	99,900	105,800
Australia—	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Sulphur recoverable from	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
zinc concentrates ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Spent oxide ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
New Zealand ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Irish Republic	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Spent oxide (c) ..	(£1,513)	(£557)	(a)	(a)	£2,555	£157	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
FOREIGN COUNTRIES														
France—														
Sulphur rock ..	(d)11,756	105,079	139,122	115,784	140,245	265,000	(a)	2,083	8,515	13,912	9,587	5,629	11,000	(a)
Greece—	1,835	—	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Italy—	1,036,587	1,073,142	1,342,311	1,520,588	1,717,018	1,827,106	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Sulphur rock ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Crude sulphur (e)—	140,764	146,088	170,904	185,566	209,766	197,382	212,367	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Fused ..	12,592	18,716	15,176	19,213	15,778	22,120	21,490	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Norway—														
Sulphur recovered from	70,751	81,121	77,985	79,901	94,671	96,854	103,133	70,696	81,040	77,907	79,892	94,387	96,563	102,824
pyrites ..	6,432	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Poland—														
Sulphur ..	12,403	7,522	9,671	10,706	14,202	13,903	15,510	12,242	7,424	9,545	10,566	14,032	13,722	15,308
Portugal—														
Sulphur recovered from														
pyrites ..														

* See also Pyrites (page 275).

(c) Consumed by the sulphuric acid industry.

(a) Information not available.

(d) Sales of concentrates.

(b) Estimated.

(e) Derived from sulphur rock above.

PRODUCTION OF SULPHUR (Cont.)

Producing Country and Description	Estimated Sulphur Content													
	1946	1947	1948	1949	1950	1951	1952	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)														
Spain—														
Sulphur rock ..	29,396	26,302	18,494	37,679	50,277	49,846	52,970	(a)	(a)	(a)	10,000	12,600	13,500	14,300
Refined sulphur (e) ..	37,521	23,204	33,648	32,985	37,085	38,998	40,368	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Sweden—														
Sulphur ..	21,395	13,982	12,138	11,769	14,354	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Mexico—														
Mined ..	(a)	3,100	2,100	9,600	9,600	10,904	(d)10,000	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Refined sulphur (f) ..	(a)	—	—	—	—	19,444	(d)36,000	(a)	(a)	(a)	(a)	(a)	(a)	(a)
United States—														
Crude sulphur ..	3,859,642	4,441,214	4,869,210	4,745,014	5,192,184	5,278,249	5,293,145	3,859,642	4,441,214	4,869,210	4,745,014	5,192,184	5,278,249	5,293,145
Smelter gas (b) ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)	234,000	237,000	187,000	167,000	216,000	240,800	253,100
By-product sulphur (c) ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)	34,990	43,427	44,369	56,781	142,475	184,013	248,076
Hydrogen sulphide (c) ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)	18,366	20,631	25,792	37,935	41,963	59,613	70,000
Argentina—														
Refined sulphur ..	10,070	10,871	8,388	9,912	7,662	7,560	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Bolivia (exports)—														
Refined sulphur ..	464	2,251	2,685	4,398	4,307	8,956	5,497	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Ecuador—														
Sulphur ..	(a)	23	43	16	27	1	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Chile—														
Refined sulphur ..	30,672	29,617	(a)	(a)	(a)	(a)	(a)	30,641	29,587	13,124	7,599	22,065	29,672	(a)
Colombia—														
Refined sulphur ..	—	—	—	—	1,461	2,274	2,566	—	—	—	—	(a)	(a)	(a)
Peru—														
Crude ..	—	—	—	—	—	2,018	(a)	—	—	—	—	—	1,211	(a)
Refined sulphur ..	2,491	1,069	1,842	87	2,111	1,040	(a)	2,479	1,064	1,833	87	2,100	1,035	(a)
Iran—														
Sulphur (d) ..	600	600	600	1,500	1,500	1,500	1,500	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Japan—														
Refined sulphur ..	21,795	28,670	39,964	61,493	91,960	140,181	176,651	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Turkey—														
Refined sulphur ..	2,970	2,620	2,556	2,995	6,502	7,273	8,248	2,940	2,594	2,530	2,992	6,495	7,266	8,240

Sulphur is also produced in U.S.S.R., Formosa and Manchuria.
 (b) Estimated sulphur content of gas driven off in the smelting of zinc and copper concentrates, chiefly used in acid making.
 (c) Derived partly from sulphur rock above but in the main recovered from pyrites.
 (d) Estimated.
 (e) Information not available.
 (f) Recovered from natural gas.

EXPORTS OF SULPHUR

(Domestic Produce)

(Long tons)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom	2,553	4,383	3,893	2,617	6,057	430	1,162
Union of South Africa ..	281	455	751	46	27	25	(a)
Hong Kong (re-exports)	419	778	1,300	2,648	5,065	638	92
Malaya (including re-exports)	278	54	32	85	54	16	13
Palestine	—	778	(a)	(a)	(a)	(a)	(a)
Australia— Zinc concentrates (S content) (b) ..	29,600	(c) 46,945	(c) 45,551	40,500	47,500	42,075	61,628
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.	(a)	(a)	1,668	1,847	2,740	4,741	2,761
France— Rock	863	16	(a)	(a)	(a)	21	—
Crude	1,772	1,230	1,733	1,764	916	2,618	3,632
Unrefined ground ..	(a)	(a)	2,025	1,664	1,405	3,277	1,512
Refined lump	7,995	4,767	9,243	12,789	10,000	10,796	3,446
Flowers of sulphur ..	857	8,023	1,073	317	57	313	248
Precipitated sulphur ..	549	1,737	700	321	6	8	20
Germany (Federal)— Sulphur, etc.	(a)	(a)	19	30	7,127	1,323	8,580
Italy	(a)	21,481	81,705	71,938	235,934	105,923	78,180
Norway	60,761	71,223	53,385	61,356	74,959	69,062	60,655
Portugal	199	8	40	208	59	6,685	2,660
Spain— Flowers of sulphur, etc.	2,020	1,982	183	2,301	1,331	5,704	2,606
Sweden	291	180	128	29	112	157	375
Algeria— Rock	4,557	—	—	1	—	9	—
Refined and flowers of sulphur	57	—	—	1	1	—	—
Mexico	3,033	1,154	1,691	325	631	6,844	8,940
United States— Crude	1,189,072	1,299,060	1,262,913	1,443,540	1,440,996	1,283,073	1,304,154
Refined and flowers of sulphur	56,748	50,477	32,630	30,051	37,526	24,044	34,213
Bolivia	464	2,251	2,685	4,398	4,307	8,956	5,497
Chile	4,646	251	197	19	3,000	11,800	29,100
Peru	369	787	973	248	98	2,875	4,635
Japan	2,437	1,962	650	(a)	542	—	(a)
Turkey	(a)	(a)	(a)	(a)	(a)	1,104	(a)

(a) Information not available.

(b) Estimated amount recoverable.

(c) Years ended June 30 of that stated.

IMPORTS OF SULPHUR

(Less Re-exports)

(Long tons)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom	246,436	304,701	347,735	392,012	438,551	377,220	407,139
Malta—							
Flowers of sulphur ..	(£5,223)	(£2,511)	(£3,902)	(£1,857)	(£6,259)	215	36
Kenya (b)	(a)	(a)	719	129	526	(g) 204	310
Mauritius	40	409	(a)	5	(g) 32	—	5
Northern Rhodesia ..	28	167	193	2	2	2	1
South West Africa ..	166	29	37	45	9	11	(a)
Southern Rhodesia ..	5	13	17	15	17	17	14
Tanganyika	(a)	(a)	10	—	—	—	76
Uganda	(c)	(c)	(c)	214	450	208	198
Union of South Africa ..	29,438	36,397	44,892	61,438	67,246	59,503	75,019
British Guiana	2	1	8	1	7	8	3
Canada (d)	244,198	322,665	316,627	250,497	348,511	353,404	370,668
Newfoundland (e) ..	5,379	11,444	13,041	(e)	(e)	(e)	(e)
Ceylon	884	951	639	380	71	382	4,077
Cyprus	423	799	936	1,222	118	1,188	1,051
Hong Kong (total imports)	829	1,291	2,185	3,003	10,026	33	10
India (total imports) ..	37,909	37,520	37,224	39,426	56,488	38,507	65,776
Malaya (total imports) ..	235	257	61	225	529	180	150
Pakistan (i)	(a)	(a)	(a)	(a)	(a)	318	500
Palestine	1,167	(a)	(a)	(h)	(h)	(h)	(h)
Australia	72,939	110,634	144,084	144,037	191,790	99,382	111,404
New Zealand	43,632	79,006	54,393	64,846	62,499	73,759	79,245
Irish Republic	164	229	148	232	284	238	284
FOREIGN COUNTRIES							
Austria	(a)	7,788	2,559	17,829	30,713	18,911	20,845
Belgium-Luxemburg E.U.	(a)	(a)	85,241	87,241	62,444	59,211	40,158
Bulgaria	647	(a)	(a)	(a)	(a)	(a)	(a)
Czechoslovakia—							
Crude and ground ..	12,731	7,004	(f) 16,818	(a)	(a)	(a)	(a)
Flowers of sulphur ..	10	188	(f) 91	(a)	(a)	(a)	(a)
Denmark	1,014	877	1,625	802	1,182	785	573
Finland (total imports) ..	20,635	16,111	20,691	19,264	22,281	35,936	27,215
France—							
Rock	31,995	38,472	(a)	(a)	(a)	1	—
Crude	155,617	136,823	115,676	162,460	139,715	119,814	116,440
Unrefined ground ..	(a)	(a)	280	1	11	2,381	—
Refined lump	445	398	—	9	—	—	(a)
Flowers of sulphur ..	1	85	—	200	21	—	(a)
Precipitated	—	4	8	9	9	7	25
Germany (Federal)—							
Sulphur, etc.	(a)	(a)	12,306	24,196	30,457	20,231	32,934
Greece	3,412	1,732	10,478	2,766	16,555	11,808	7,875
Iceland	1	1	2	—	—	—	(a)
Netherlands	1,665	5,688	4,993	4,078	2,653	3,274	1,776
Norway	60	43	47	71	183	69	74
Portugal—							
Crude	1	300	700	200	200	195	—
Flowers of sulphur ..	32	153	113	64	52	2	10
Other sulphur	4	15	21	20	7	6	8

(a) Information not available.

(b) Including Uganda up to 1948 inclusive.

(c) Included with Kenya.

(d) Including Newfoundland from April 1, 1949.

(e) Years ended March 31 of year following that stated. Included with Canada from April 1, 1949.

(f) January to October only.

(g) Excess of re-exports.

(h) See "Israel" under Foreign Countries

(i) Years ended March 31 following that stated. Included with India prior to 1948.

IMPORTS OF SULPHUR (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Spain—							
Crude	5,021	20,692	1,968	2,399	11,522	2,801	(a)
Flowers of sulphur	57	44	79	3,536	30	50	44
Sweden	49,654	54,458	54,795	49,919	52,206	60,263	40,220
Switzerland—							
Crude and ground	18,280	23,780	44,136	8,685	27,579	16,280	19,647
Flowers of sulphur	259	190	130	177	270	329	244
Yugoslavia	(a)	(a)	(a)	(a)	4,351	2,397	5,353
Algeria—							
Rock	98	—	98	2	34	42	229
Crude	} 24,793	} 14,584	} 8,211	} 18,809	} 14,969	} 16,073	} 18,694
Unrefined, ground							
Refined							
Flowers of sulphur							
Precipitated	1,433	1,625	637	48	2	5	15
Angola	50	(a)	(a)	(a)	(a)	(a)	(a)
Belgian Congo	—	164	(a)	(a)	90	109	254
Egypt	2,337	2,725	3,995	4,716	9,281	5,034	4,839
Madagascar	15	72	75	(a)	(a)	(a)	(a)
Morocco (French)—							
Crude	221	220	38	4,848	4,500	(a)	3,842
Refined	1,871	1,082	1,286	1,250	2,301	(a)	1,090
Morocco (Spanish)	50	55	(a)	(a)	(a)	(a)	(a)
Mozambique	344	419	302	278	612	1,025	(a)
Tunis—							
Crude	15,151	3,173	8,225	8,862	(a)	(a)	(a)
Refined and flowers of sulphur	560	209	5	214	(a)	(a)	(a)
Costa Rica	6	(a)	53	(a)	(a)	(a)	(a)
Cuba (total imports)	(a)	(a)	3,659	5,679	14,027	8,352	(a)
Guatemala	(a)	(a)	121	113	124	113	(a)
Mexico	3,229	3,008	4,718	7,045	11,227	10,478	5,978
United States	35	15	38	32	25	2,376	4,863
Argentina—							
Crude	23,561	47,289	28,348	26,900	22,684	10,999	26,574
Refined and flowers of sulphur	232	(a)	(a)	(a)	(a)	(a)	(a)
Brazil (total imports)	26,868	41,944	31,353	44,572	66,704	58,597	79,709
Chile	3	(a)	(a)	(a)	(a)	(a)	(a)
Colombia	1,277	(a)	(a)	669	2,042	(a)	(a)
Peru	472	(a)	(a)	830	630	636	2,671
Uruguay	14,537	1,212	4,165	4,548	14	1,393	(a)
Venezuela	134	108	287	124	(a)	(a)	(a)
China	2,530	3,112	(a)	(a)	(a)	(a)	(a)
Iran (b)	1,037	39	(a)	(a)	(a)	—	(a)
Israel	(c)	(c)	(c)	3,608	2,138	(a)	(a)
Syria and Lebanon	473	626	(a)	(a)	(a)	(a)	(a)
Turkey—							
Refined and flowers of sulphur	3,741	6,579	2	2,247	130	—	109

(a) Information not available.

(b) Total imports for years ended March 20 of year following that stated.

(c) See "Palestine" under British Countries.

TALC
PRODUCTION OF TALC
(Including Steatite and Pyrophyllite)
(Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Great Britain	3,383	3,326	4,000	3,000	1,700	2,500	2,586
Kenya (b)	(a)	20	10	83	10	—	—
Union of South Africa	3,622	2,655	4,820	5,301	3,915	5,573	8,537
Canada (shipments)	26,208	23,847	25,696	24,038	29,111	22,184	23,133
Newfoundland (c)	650	216	—				
India	23,472	23,240	18,096	21,195	25,485	33,647	20,051
Pakistan	(a)	(a)	(a)	58	(a)	(a)	(a)
Australia—							
Talc	5,745	5,733	5,690	8,029	9,047	12,597	7,492
Pyrophyllite		102	411	550	648	552	157
FOREIGN COUNTRIES							
Austria	22,184	25,252	48,742	55,165	57,754	71,634	50,096
France	62,349	68,683	90,070	98,475	86,035	101,615	106,000
Germany (Federal)	(a)	(a)	(a)	8,707	13,104	18,886	10,485
Greece	500	200	1,033	1,673	2,500	2,584	1,200
Italy	35,782	47,613	69,031	59,259	65,683	74,796	77,600
Norway	41,648	53,785	56,322	53,447	63,081	75,271	63,062
Portugal	—	—	21	3	2	1	6
Spain	19,227	20,505	18,332	20,551	13,486	22,271	16,629
Sweden	13,788	10,541	11,518	11,115	11,784	11,454	(a)
Egypt	4,684	4,557	5,434	5,485	3,675	3,698	4,826
United States—							
Talc	323,919	364,289	375,587	328,950	446,321	571,836	532,808
Pyrophyllite	87,290	96,830	96,326	81,179	104,286	107,171	112,050
Argentina	3,701	(a)	(a)	(a)	(a)	(a)	(a)
Brazil	4,117	9,350	10,573	17,501	12,432	11,125	(a)
Chile	(a)	(a)	257	108	140	25	(a)
Peru	(a)	(a)	(a)	(a)	(a)	129	(a)
Uruguay	1,789	2,633	2,937	650	670	944	(a)
Japan—							
Talc	(a)	12,791	13,677	12,385	12,200	12,011	10,401
Pyrophyllite	109,800	160,552	220,919	245,609	265,901	382,288	302,957
Korea (South)	(a)	(a)	(a)	307	(a)	3,157	3,705
TOTAL*	808,000	961,000	1,108,000	1,066,000	1,235,000	1,530,000	1,380,000

* Excluding talc produced in Roumania, U.S.S.R., China and Manchuria.

(a) Information not available.

(b) In addition the following amounts of Kisii stone were produced (long tons): 1946—482; 1947—272; 1948—312; 1949—497; 1950—318; 1951—332; 1952—231.

(c) Pyrophyllite.

EXPORTS OF TALC

(Domestic Produce)

(Long tons)

Exporting Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Canada (b)	5,716	5,185	4,511	3,770	3,989	3,342	3,067
Newfoundland (c) ..	261	206	—	(c)	(c)	(c)	(c)
India	5,354	3,623	3,683	2,802	4,188	5,344	4,060
Malaya (incl. re-exports) ..	158	256	471	508	613	651	539
Australia	51	1	5	11	—	22	—
FOREIGN COUNTRIES							
Austria	(a)	6,178	19,657	22,720	27,150	34,984	30,442
Belgium-Luxemburg E.U.	(a)	(a)	68	36	33	120	83
Czechoslovakia	148	165	(d) 153	(a)	(a)	(a)	(a)
France	24,628	26,633	23,324	21,053	30,115	35,081	23,115
Germany (Federal) ..	(a)	(a)	(a)	43	169	424	938
Greece	(a)	(a)	54	128	1,771	(a)	(a)
Italy	(a)	22,974	31,925	23,489	27,055	32,021	26,117
Norway	24,845	35,010	37,624	35,317	44,274	50,562	39,685
Egypt	—	—	1,656	1,819	918	2,739	(a)
United States	14,619	15,676	14,578	14,143	18,432	20,449	20,498
Uruguay	(a)	(a)	—	—	—	(a)	(a)

(a) Information not available.

(b) Including Newfoundland from April 1, 1949.

(c) Years ended March 31 following that stated. Included with Canada from April 1, 1949.

(d) January to October only.

IMPORTS OF TALC

(Less Re-exports)

(Long tons)

Importing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Unground	657	1,069	814	1,271	513	1,135	1,200
Ground	12,120	22,101	19,585	23,367	27,028	34,944	26,308
Canada	6,015	7,553	6,947	6,490	8,003	8,289	7,810
Cyprus	(£401)	10	11	37	30	21	15
India	—	1	—	—	—	—	—
Malaya (total imports)	373	177	319	573	430	558	504
Australia	33	240	290	370	287	359	72
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.	(a)	1,845	6,409	4,936	6,165	8,234	8,025
Czechoslovakia	1,360	595	(b) 320	(a)	(a)	(a)	(a)
Denmark	5,064	5,657	5,545	5,858	6,842	7,979	6,295
Finland (total imports)	1,283	2,961	2,430	3,218	3,810	5,048	(a)
France	110	827	3,092	357	725	1,938	1,732
Germany (Federal)	(a)	(a)	12,589	11,755	17,434	18,583	21,099
Italy	(a)	2	3	2	(a)	5	125
Netherlands	(a)	(a)	14,417	9,629	12,049	11,582	9,581
Portugal	733	349	190	431	622	553	381
Sweden	(a)	(a)	(a)	1,981	1,044	1,845	2,572
Yugoslavia	(a)	(a)	(a)	(a)	123	93	73
Algeria	—	945	1,451	823	950	1,546	1,689
Belgian Congo	46	14	(a)	(a)	66	152	179
Egypt (total imports)	19	119	90	191	876	2,499	329
Morocco (French)	45	10	(a)	226	373	(a)	374
Morocco (Spanish)	6	40	(a)	(a)	(a)	(a)	(a)
Tunis	315	434	127	(a)	(a)	(a)	(a)
Mexico	1,429	1,639	909	837	932	1,230	1,719
United States	16,472	15,808	16,408	16,800	20,872	18,430	18,127
Argentina	175	(a)	(a)	(a)	(a)	(a)	(a)
Brazil	79	527	202	31	(a)	15	—
Chile	52	(a)	(a)	(a)	(a)	(a)	(a)
Colombia	189	(a)	(a)	169	169	(a)	(a)
Peru	24	(a)	105	262	172	376	386
Venezuela	200	249	251	254	(a)	(a)	(a)
Japan (total imports)	583	2,473	958	886	2,304	4,509	6,641
Phillippine Republic	(a)	(a)	(a)	(a)	873	1,267	(a)
Syria and Lebanon	71	(a)	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

(b) January to October only.

TANTALITE AND COLUMBITE
PRODUCTION OF TANTALITE AND COLUMBITE
(Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Nigeria—							
Tantalite	1	4	4	2	1	3	1
Columbite	1,550	1,286	1,096	888	864	1,078	1,293
Southern Rhodesia—							
Tantalite	8	12	8	5	1	—	4
Columbite	—	—	—	—	—	—	1
South West Africa—							
Tantalite and columbite	—	(500 lbs.)	(17 lbs.)	3	6	2	2
Uganda—							
Tantalite	—	} (b) 2 (b)	} 1 (b)	{ — 3	(b) — 3	(b) — 6	} 5
Columbite	1						
Union of South Africa—							
Tantalite	—	—	—	—	2	3	4
Malaya—							
Columbite	—	—	—	—	8	25	47
Australia—							
Tantalite and columbite	(806 lbs.)	(112 lbs.)	5	2	7	2	7
FOREIGN COUNTRIES							
Belgian Congo (c)—							
Tantalite and columbite concentrates	165	155	143	114	133	94	103
Tin-tantalite-columbite	—	286	513	867	1,086	1,159	1,256
French Equatorial Africa—							
Tantalite and columbite	1	1	2	6	2	—	2
Madagascar—							
Columbite	—	—	—	—	—	4	3
Mozambique—							
Columbite	(400 lbs.)	—	—	(570 lbs.)	5	5	—
United States—							
Tantalite	2	1	(500 lbs.)	} (1,020 lbs.)	(1,000 lbs.)	(1,000 lbs.)	{ — 2
Columbite	—	—	(100 lbs.)				
Bolivia (exports)—							
Columbite	3	—	—	—	—	(a)	(a)
Brazil (exports)—							
Tantalite	44	32	4	41	(a)	4	24
Columbite	7	—	5	12	(a)	5	2

(a) Information not available.

(b) In addition Tin-columbite produced amounted to 329 lbs., 210 lbs., 1,210 lbs. 336 lbs., and 3,248 lbs. in 1947, 1948, 1950, 1951 and 1952 respectively.

(c) In addition exports of Tantaliferous slag amounted to 782 tons, 6,716 tons and 834 tons in 1950, 1951 and 1952 respectively.

EXPORTS OF TANTALITE AND COLUMBITE
(Domestic Produce)
(Long tons)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Tantalum	(5 lbs.)	(1 lb.)	4	—	(a)	(a)	(a)
Nigeria—							
Tantalite	7	3	2	—	3	2	1
Columbite	1,438	1,290	1,239	945	916	1,092	1,228
South West Africa—							
Tantalite	—	—	—	1	4	3	4
Southern Rhodesia—							
Tantalite	7	7	11	4	4	—	5
Uganda—							
Tantalite and columbite	4	2	1	2	5	19	4
Union of South Africa—							
Tantalite.. ..	—	—	—	—	2	3	—
Australia—							
Tantalite and columbite	1	4	4	1	6	4	2
FOREIGN COUNTRIES							
Belgian Congo—							
Tantalite and columbite	(b) 117	170	125	193	488	231	207
Tantaliferous slag	—	—	—	—	782	6,716	834
French Equatorial Africa—							
Tantalite and columbite	—	—	2	6	2	—	—
Madagascar—							
Columbite	—	—	—	—	—	—	2
United States—							
Tantalite	(21 lbs.)	—	(60 lbs.)	1	—	(c) (41 lbs.)	(1,058 lbs.)
Columbite	4	5	(660 lbs.)	8	49	—	(a)
Bolivia—							
Columbite	3	—	—	—	—	(a)	(a)
Brazil—							
Tantalite	44	32	4	41	(a)	4	24
Columbite	7	—	5	12	(a)	5	2

(a) Information not available.

(b) Imports from Belgian Congo into the United States.

(c) Revised.

IMPORTS OF TANTALITE AND COLUMBITE
(Less Re-exports)
(Long tons)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Tantalite and columbite	(a)	292	329	387	586	538	577
Tantalum powder, sheet, etc.	(265 lbs.)	(170 lbs.)	(317 lbs.)	(131 lbs.)	(187 lbs.)	(377 lbs.)	(185 lbs.)
FOREIGN COUNTRIES							
United States—							
Tantalite	162	187	52	61	147	106	147
Columbite	1,083	1,260	878	695	771	681	838

(a) Information not available.

TIN
PRODUCTION OF TIN ORE

(In terms of metal)

(Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Great Britain	849	820	862	898	889	837	822
Nigeria	10,333	9,133	9,237	8,825	8,258	8,539	8,303
Northern Rhodesia	6	1	—	7	4	2	11
Southern Rhodesia	100	122	114	74	66	59	36
South West Africa	177	146	111	119	90	75	(b) 96
Swaziland	37	24	20	32	37	32	36
Tanganyika	127	93	95	109	94	61	44
Uganda	202	156	176	174	139	120	107
Union of South Africa	487	483	457	471	643	747	935
Canada (smelter)	390	319	309	276	355	(d) 155	95
Burma	342	1,792	(e)	(e)	(c)	(e)	(e)
Malaya	8,432	27,026	44,815	54,910	57,537	57,167	56,838
Australia	2,141	2,456	1,885	1,882	1,855	1,577	1,643
TOTAL	23,600	42,570	58,080	67,777	69,967	69,371	68,966
FOREIGN COUNTRIES							
France	10	43	76	73	117	190	(b) 354
Germany (Eastern)	(a)	110	156	157	191	257	364
Italy	100	50	—	—	—	—	—
Portugal	409	555	706	1,039	947	1,211	1,462
Spain	921	303	269	454	633	940	733
Belgian Congo	14,634	12,752	13,215	13,963	13,796	13,917	13,995
Cameroon (French)	113	115	102	72	66	72	86
Egypt	25	—	—	—	—	5	6
French West Africa	—	—	—	26	50	18	112
Morocco (French)	9	—	—	—	—	13	15
Mozambique	2	1	1	1	1	8	(a)
Mexico	263	171	182	358	440	366	413
United States	—	1	5	68	94	88	100
Argentina	923	522	273	268	267	242	265
Bolivia (f)	37,618	32,685	37,441	34,115	31,213	33,132	32,216
Brazil	269	272	172	206	180	197	(b) 180
Peru	2	51	64	51	38	3	(a)
Burma	(c)	(c)	1,147	1,781	1,520	1,624	1,103
China (smelter) (b)	1,930	4,300	4,800	4,200	4,000	4,800	5,400
French Indo-China	—	—	30	40	60	92	157
Indonesia	6,426	15,915	30,562	29,033	32,102	30,986	35,003
Japan	56	105	118	190	326	433	639
Siam	1,056	1,401	4,240	7,815	10,366	9,503	9,474
Total	64,780	69,300	93,500	93,900	97,400	98,100	102,100
WORLD'S TOTAL (excl. U.S.S.R.)	88,400	111,900	151,600	161,700	167,400	167,500	171,100

(a) Information not available.

(b) Estimated.

(c) Included under British Countries.

(d) Revised.

(e) Included under Foreign Countries.

(f) Content of ore plus metal exported.

SMELTER PRODUCTION OF TIN

(Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom (b) ..	29,121	28,083	31,002	28,384	28,500	27,650	29,521
Southern Rhodesia ..	79	121	127	75	80	63	37
Union of South Africa ..	858	601	554	595	718	829	694
Canada	390	319	309	276	355	(d) 155	95
Malaya	11,533	29,318	49,707	62,737	68,747	65,914	62,830
Australia	2,225	2,371	1,885	1,955	2,014	1,459	1,699
TOTAL	44,206	60,813	83,584	93,962	100,400	96,070	94,876
FOREIGN COUNTRIES							
Belgium	1,405	12,059	10,469	8,996	9,512	8,360	10,585
Germany—							
Federal Republic ..	—	—	—	(c) 120	586	581	758
Eastern	(a)	110	156	157	191	257	364
Italy	75	46	—	—	—	—	—
Netherlands	945	8,981	16,402	19,247	21,027	20,977	27,913
Portugal	187	373	282	218	209	313	340
Spain	1,267	622	488	659	895	884	753
Belgian Congo	3,533	3,076	3,875	3,247	3,238	3,011	2,765
Mexico	263	161	170	(c) 325	(c) 425	(c) 350	(c) 120
United States	43,468	33,292	36,703	35,834	33,118	31,852	22,805
Argentina	777	433	254	235	253	206	(c) 250
Bolivia (exports) ..	—	22	105	—	388	39	257
Brazil	178	220	185	157	118	133	(c) 240
China (c)	1,930	4,300	4,800	4,200	4,000	4,800	5,400
French Indo-China ..	—	—	31	—	—	—	—
Japan	159	53	145	477	389	575	689
Siam	389	141	—	—	2	—	17
TOTAL	54,500	63,900	74,000	73,900	74,400	72,300	73,200
WORLD'S TOTAL ..	98,700	124,700	157,600	167,800	174,800	168,400	168,100

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

	Long tons		Long tons
1946	24,706	1950	31,680
1947	26,834	1951	30,745
1948	26,896	1952	28,000
1949	22,233		

(a) Information not available.

(b) Includes production from imported scrap and residues refined on toll.

(c) Estimated.

(d) Revised.

EXPORTS OF TIN

(Domestic Produce)

(Long tons)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Blocks, ingots, bars and slabs	20,600	3,909	2,216	4,204	15,460	4,912	12,565
Soft solder	1,840	831	1,256	1,362	2,053	2,618	1,828
Tin-foil	365	395	278	210	255	120	48
Nigeria—							
Ore	13,929	14,090	12,169	12,676	11,417	11,753	10,575
Southern Rhodesia—							
Ore and concentrates ..	38	28	43	—	82	—	—
Blocks, ingots and bars	23	12	12	3	5	5	2
South West Africa—							
Ore (b)	262	224	146	91	67	75	127
Tanganyika—							
Ore and concentrates ..	181	129	133	140	142	93	58
Uganda—							
Ore	296	189	283	185	260	155	159
Union of South Africa—							
Bars, sheet, etc. ..	148	154	—	—	—	—	(a)
Hong Kong (re-exports)—							
Slabs and ingots	2,006	2,588	2,080	4,193	1,136	101	28
India—							
Blocks, ingots, bars, slabs and scrap	—	1	242	—	—	—	2,244
Malaya—							
Ore	344	—	40	—	9	1	—
Ingots, blocks, bars, slabs	7,619	32,072	47,215	54,783	81,805	64,956	64,119
Australia—							
Ore and concentrates ..	(a)	(a)	(c) 25	12	(d) 5	(d) 41	(d) 21
Ingots	103	14	—	1	—	—	631
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Crude	2,780	12,562	10,356	9,809	10,193	8,484	9,948
Scrap			24	63	57	68	52
Sheets, wire, etc. ..			10	—	7	4	2
Denmark—							
Crude	8	109	218	117	399	11	113
Scrap	—	3	2	—	—	10	—
France—							
Ore	—	2	(a)	(a)	(a)	300	217
Pigs, bars, etc.	129	73	108	77	174	172	143
do. (alloys)	21	126	218	265	503	320	277
Scrap	—	1	—	9	25	12	4
Sheets and wire	10	66	123	115	62	82	65
Germany (Federal)—							
Crude, scrap and alloys	(a)	(a)	—	371	931	302	1,111
Sheets and wire			—	—	26	23	2
Tin-foil			—	—	—	1	3

(a) Information not available.

(b) Excluding tin-tungsten ore.

(c) Sn content during the year ended June 30 of the year stated.

(d) Sn content during calendar years.

EXPORTS OF TIN (Cont.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Italy—							
Ingots, bars, scrap, sheets, alloys, etc.	—	—	13	100	2	5	4
Netherlands—							
Ore	—	—	4	—	—	—	—
Blocks	267	4,771	12,252	19,248	17,847	19,383	25,432
Sheets, wire, etc.	2	25	6	(a)	2	1	—
Norway—							
Ingots and bars	93	119	111	116	152	(a)	(a)
Portugal—							
Ore	181	317	636	1,214	1,156	1,009	1,617
Bars	244	248	199	51	3	14	124
Spain—							
Ingots and bars	9	8	440	5	176	35	(a)
Sweden—							
Crude and scrap	10	—	—	54	5	12	15
Switzerland—							
Pigs, bars, slabs, sheets, etc.	6	9	8	7	36	9	26
Tin-foil	—	18	24	2	3	6	1
Scrap	—	19	1	19	133	288	171
Algeria—							
Ingots, scrap and alloys	974	6	—	37	34	44	7
Belgian Congo—							
Ore	17,629	19,623	14,394	13,474	15,755	13,501	15,783
Ingots	4,383	4,311	3,860	4,517	3,921	2,670	2,815
Cameroun (French)—							
Ore	85	212	113	143	110	102	128
French West Africa—							
Ore	—	—	—	—	128	93	151
Morocco (French)—							
Ore	—	20	(a)	—	—	—	—
Mozambique—							
Ore	1	—	—	—	—	—	(a)
Mexico—							
Ores and concentrates	—	28	34	94	13	2,173	376
<i>Sn content</i>	—	10	12	33	5	(a)	243
Crude and scrap	1	3	239	(a)	—	—	—
United States—							
Ingots, pigs, etc.	859	414	78	76	287	264	301
Scrap	6,864	6,678	9,138	9,225	2,801	5,519	6,304
Tubes, sheets, foil	94	93	45	36	27	24	15
Argentina—							
Ore	79	} (a)	(a)	(a)	(a)	(a)	(a)
Slag and ashes	2,016						
Ingots and bars	—						
Bolivia—							
Ores, concentrates, etc. (<i>Sn content</i>)	37,618	32,663	37,336	34,115	30,825	33,093	31,959
Metal	—	22	105	—	388	39	257
Peru—							
Slag (<i>Sn content</i>)	2	50	64	51	45	32	33
Burma—							
Ore and concentrates (<i>Sn content</i>)	724	1,774	1,833	1,511	1,416	1,477	1,393
China—							
Ingots and slabs	1,535	4,050	3,850	(b) 3,000	(b) 3,000	(b) 3,900	(b) 3,900
French Indo-China—							
Ore (<i>Sn content</i>)	—	11	33	286	259	92	(a)
Ingots and scrap	(a)	134	94	274	259	182	(a)
Indonesia—							
Ore	(a)	16,285	45,559	43,097	43,231	44,220	34,190
Siam—							
Ore (<i>Sn content</i>)	—	5,277	5,651	7,977	10,955	8,809	(a)

(a) Information not available.

(b) Estimated.

IMPORTS OF TIN
(Less Re-exports)
(Long tons)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Ore and concentrates ..	47,152	39,348	48,440	46,655	46,130	50,610	55,084
Blocks, ingots, bars and slabs	634	230	158	538	} 4,069	9,927	(e) 6,275
Soft solder	21	3	7	5			
Anglo-Egyptian Sudan—							
Unwrought incl. scrap ..	15	16	24	12	8	30	(a)
Kenya (g)—							
Unwrought incl. scrap ..	(a)	(a)	(e) 190	26	35	37	(e) 9
Bars, plates and sheets ..	55	6	17	10	—	—	—
Solder	(a)	(a)	78	94	65	64	67
Southern Rhodesia—							
Blocks, ingots and bars	—	—	10	3	26	33	61
South West Africa—							
Bars, sheets, etc. ..	—	—	1	1	—	—	(a)
Tanganyika—							
Unwrought incl. scrap ..	(a)	(a)	9	1	(e) 1	7	5
Bars, plates and sheets ..	1	—	1	22	5	—	—
Solder	(a)	(a)	30	30	38	57	85
Uganda—							
Solder	(h)	(h)	(h)	16	11	11	16
Union of South Africa—							
Blocks, ingots, bars and rods	93	48	568	635	773	1,224	530
Tin-foil	26	8	15	8	14	10	(a)
Canada (c)—							
Blocks, pigs and bars ..	3,751	3,961	3,598	3,676	4,817	6,135	3,949
Tin-foil	3	4	1	3	15	4	1
Newfoundland (d)—							
Bars, sheets, ingots, etc.	254	402	154	(d)	(d)	(d)	(d)
Aden—							
Blocks, ingots, etc. ..	—	—	12	(e) 5	386	—	37
Ceylon—							
Ingots, slabs, etc. ..	—	50	44	6	15	33	9
Tin solder	10	17	32	23	26	23	23
Cyprus—							
Ingots and bars	10	9	19	1	13	6	7
Hong Kong (total imports)—							
Slabs and ingots	2,069	2,567	2,969	3,182	595	205	114
India—							
Blocks, ingots, bars and slabs	341	575	582	} 3,876	4,737	2,905	2,177
do. (Government stores)	50	757	200				
Malaya (b)—							
Ore	654	4,559	4,848	9,053	13,559	10,539	7,948
Ingots, blocks, bars, slabs	106	180	167	30	28	2	—
Pakistan (f)—							
Blocks, ingots, bars and slabs	(a)	(a)	(a)	(a)	(a)	246	61
Australia—							
Ingots	—	300	276	270	249	2,723	180
Rods, sheets, tubes, etc.	(i) 2,103	(i) —	(i) 1	(i) 9	1	—	—
Foil (i)	66	556	237	164	171	90	35
New Zealand—							
Ingots, etc.	74	266	425	310	136	450	231

(a) Information not available.

(b) Total imports.

(c) Including Newfoundland from April 1, 1949.

(d) Years ended March 31 of year following that stated.
Included with Canada from April 1, 1949.

(e) Excess of re-exports.

(f) Years ended March 31 following that stated.

(g) Including Uganda up to 1948 inclusive.

(h) Included with Kenya.

(i) Years ended June 30 of that stated

IMPORTS OF TIN (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES (Cont.)							
Irish Republic—							
Ingots, bars, slabs, etc.	31	40	47	63	84	79	34
Soft solder	60	144	166	114	131	155	36
Tin-foil	9	54	33	3	26	19	(a)
FOREIGN COUNTRIES							
Austria—							
Crude and alloys ..	(a)	(a)	(a)	630	581	894	306
Belgium-Luxemburg E.U.—							
Ore	(a)	15,669	14,987	11,885	12,844	12,097	12,989
Crude			1,783	1,243	1,431	1,959	1,262
Scrap	3,612	2,553	10	1	—	—	—
Sheets, wire, etc. ..			—	3	—	4	—
Bulgaria—							
Crude, bars, sheets, scrap, etc.	9	(a)	(a)	(a)	(a)	(a)	(a)
Czechoslovakia—							
Crude, scrap and alloys	138	1,336	(b) 1,203	(a)	(a)	(a)	(a)
Denmark—							
Crude	659	662	706	344	1,036	1,010	1,183
Scrap	—	—	—	—	18	107	258
Sheets, wire, etc. ..	12	7	5	3	28	44	33
Tin-foil	23	22	6	8	26	-18	6
Finland (total imports)—							
Ingots, bars and scrap ..	353	376	437	418	430	719	(a)
Tin solder	24	32	46	46	123	135	(a)
France—							
Ore	—	327	(a)	(a)	(a)	—	—
Pigs, bars, etc.	6,910	9,300	7,618	4,410	5,664	9,650	6,521
do. (alloyed with antimony)	51	35	563	47	50	75	245
Scrap	116	209	215	85	28	54	68
Sheets and wire	1	3	8	21	5	3	—
Germany (Federal)—							
Ore	(a)	(a)	—	1,085	4,899	1,862	2,208
Crude and scrap	(a)	(a)	1,844	3,999	8,614	8,164	6,410
Sheets and wire	(a)	(a)	1	—	—	—	1
Greece	104	338	52	246	291	166	209
Italy—							
Ingots, bars, scrap and alloys	581	2,729	1,161	1,646	4,174	4,391	3,203
Sheets, tubes, wire and alloys	—	22	17	9	6	—	—
Netherlands—							
Ore	1,325	15,852	24,339	23,990	29,702	26,966	36,717
Blocks	777	859	359	462	118	2,313	6,041
Sheets, wire, etc. ..	2	—	—	—	—	—	—
Norway—							
Crude	549	253	443	197	441	506	395
Bars, sheets, filings, etc.	105	219	200	138	51	46	50
Portugal—							
Sheets, wire, etc. ..	1	1	—	—	—	1	2
Spain—							
Ingots and bars	278	1	99	178	213	(a)	139
Sweden—							
Crude	666	1,512	1,402	283	1,285	1,171	857
Switzerland—							
Pigs, bars and slabs ..	920	851	787	370	1,208	1,220	513
Sheets, wire, foil, etc. ..	6	3	7	2	5	4	6
U.S.S.R.—							
Blocks, ingots, etc. (c) ..	1,474	—	—	—	635	100	(a)
Yugoslavia—							
Ingots	(a)	(a)	(a)	(a)	378	550	316

(a) Information not available.

(b) January to October only.

(c) Exports from the United Kingdom to the U.S.S.R.

IMPORTS OF TIN (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Algeria—							
Crude, sheets and alloys, etc.	188	305	251	139	119	158	180
Egypt—							
Crude and scrap . . .	678	239	555	263	501	664	548
Madagascar—							
Bars, sheets, etc. . .	43	31	29	(a)	(a)	(a)	(a)
Morocco (French)—							
Ingots, etc.	100	160	237	175	273	(a)	184
Mozambique—							
Bars, sheets, etc. . .	3	6	6	1	1	1	(a)
Tunis—							
Pigs, bars and sheets . .	106	104	61	56	74	(a)	(a)
Cuba (total imports)—							
Ingots	(a)	(a)	49	28	75	52	(a)
Bars, sheets, etc. . .	(a)	(a)	14	17	38	31	(a)
Mexico—							
Ingots	91	289	167	65	366	302	289
United States—							
Ore (<i>Sn content</i>)	38,070	30,510	37,388	38,311	26,027	29,628	26,491
Blocks, pigs, bars, etc. . .	15,559	24,899	48,797	60,224	82,916	27,784	80,452
Scrap	—	49	86	48	148	147	147
Argentina—							
Ingots and sheets . . .	395	876	1,659	630	968	(a)	(a)
Brazil (total imports)—							
Ingots and bars	779	848	1,203	946	1,552	3,313	1,221
Colombia—							
Ingots, bars, sheets, etc.	25	(a)	(a)	32	92	(a)	(a)
Chile—							
Ore	50	99	150	(a)	(a)	(a)	(a)
Ingots	163	162	142	} 100	590	290	197
Bars and sheets	—	(a)	(a)				
Peru—							
Bars, sheets, etc. . . .	33	(a)	(a)	33	60	(a)	(a)
Uruguay—							
Ingots, etc.	(a)	(a)	82	34	163	95	(a)
Venezuela—							
Crude	35	45	63	57	(a)	(a)	(a)
China—							
Ingots and slabs	} 860	26	(a)	(a)	(a)	(a)	(a)
Tin and lead foils . . .							
Iran (total imports) (b)—							
Ingots, sheets and wire	473	579	(a)	(a)	(a)	58	(a)
Iraq—							
Crude, etc.	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Sheets, wire, etc. . . .	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Israel—							
Ingots, blocks and slabs . .	103	(a)	(a)	49	44	(a)	(a)
Japan—							
Ingots and slabs	(a)	1,440	(a)	2,462	600	2,078	(a)
Syria and Lebanon—							
Ingots and sheets	106	102	36	40	(a)	(a)	(a)
Turkey—							
Ingots, bars and sheets . .	199	350	743	566	1,093	787	624

(a) Information not available.

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

TITANIUM MINERALS
PRODUCTION OF TITANIUM MINERALS
(Long tons)

Producing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Canada (shipments) (e)—							
Titanium ore	1,255	6,343	3,965	482	89,732	333,736	238,046
India—							
Ilmenite	185,023	260,955	229,416	308,180	212,663	224,084	224,895
Rutile	258	157	127	—	36	45	147
Malaya (exports)—							
Ilmenite ("Amang") ..	—	13,081	13,566	19,718	24,915	43,493	21,698
Australia—							
Ilmenite concentrates ..	5,789	9,773	11,498	10,875	13,554	12,996	7,712
Estimated ilmenite content of all ilmenite-bearing concentrates (b)	6,610	10,310	11,273	9,728	12,221	11,900	7,153
Rutile concentrates ..	4,906	8,464	13,387	13,094	18,312	35,189	38,014
Estimated rutile content of all rutile-bearing concentrates (c) ..	8,152	13,194	15,007	13,738	17,701	34,973	37,323
FOREIGN COUNTRIES							
Norway—							
Ilmenite	51,744	68,610	88,595	97,449	103,489	103,696	116,402
Rutile (d)	62	50	—	16	31	18	42
Portugal—							
Ilmenite	380	239	151	904	65	166	425
Tin-titanium ore ..	11	4	44	57	42	29	67
Spain—							
Ilmenite	126	147	178	370	627	688	1,092
Cameroon (French)—							
Rutile	1,240	744	567	396	25	106	289
Egypt—							
Ilmenite	144	—	2,593	635	256	321	1,966
French Equatorial Africa—							
Rutile	—	—	—	—	6	—	—
French West Africa—							
Ilmenite	4,125	11,104	3,632	8,206	776	3,740	4,549
Rutile	—	—	—	—	—	3	25
United States—							
Ilmenite	252,185	300,476	342,629	359,227	418,143	478,424	450,437
Rutile	6,654	7,645	6,589	10,704	(a)	(a)	(a)
Brazil (exports)—							
Ilmenite	—	—	7,775	—	—	—	—
Rutile	28	5	—	—	—	—	16

(a) Information not available.

(b) Includes the content of Ilmenite concentrates shown above.

(c) Includes the content of Rutile concentrates shown above.

(d) Ore and concentrates.

(e) Production of Titanium dioxide slag (70% TiO₂) at Sorel from the titanium ore shown above was as follows (long tons): 1950—1,425; 1951—17,538; 1952—54,000.

EXPORTS OF TITANIUM MINERALS, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Ferro-titanium	193	310	309	490	568	535	519
Canada—							
Titanium ore	1,207	1,116	(a)	482	1,119	1,446	(a)
Titanium dioxide slag (70% TiO ₂)	—	—	—	—	—	7,176	34,850
Hong Kong (re-exports)—							
Titanium oxide	(a)	(a)	(a)	(a)	(a)	(a)	150
Malaya—							
Ilmenite ("Amang") ..	—	13,081	13,566	19,718	24,915	43,493	21,698
India—							
Ilmenite	202,404	284,703	247,221	266,063	240,783	243,811	(d) 205,064
Rutile sand	50	131	(a)	(a)	36	45	147
Australia—							
Rutile	4,857	8,880	13,270	11,623	15,292	35,040	37,654
Rutile-Ilmenite	10	75	916	194	—	980	76
Zircon-Rutile	5,768	10,370	4,160	2,964	1,564	—	—
Zircon-Rutile-Ilmenite	2,458	2,063	180	—	4	—	—
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Titanium white	(a)	(a)	504	9	144	31	20
Czechoslovakia—							
Titanium white	636	596	(b) 414	(a)	(a)	(a)	(a)
France—							
Titanium oxide, etc. ..	167	223	169	310	740	1,109	436
Italy—							
Titanium oxide	(a)	127	242	287	667	1,037	1,378
Norway—							
Ilmenite (c)	51,508	65,944	91,428	79,640	119,885	94,443	113,913
Rutile	50	25	24	26	224	14	21
Titanium white	930	1,429	1,813	2,527	3,247	4,080	3,381
Portugal—							
Ilmenite	222	144	—	297	—	(a)	100
Cameroon (French)—							
Rutile	1,663	451	612	754	568	705	190
French West Africa (Senegal)—							
Ilmenite	5,147	12,764	2,690	6,300	1,413	3,921	3,173
Rutile	—	—	—	—	—	—	5
United States—							
Ores and concentrates ..	1,237	1,130	1,298	1,344	535	577	777
Ferro-titanium	491	455	429	160	152	157	290
Titanium oxide and pig- ments	14,566	18,903	23,950	26,447	29,161	35,037	31,818
Titanium compounds	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Brazil—							
Ilmenite	—	—	7,775	—	—	—	—
Rutile	28	5	—	—	—	—	16

(a) Information not available.

(b) January to October only.

(c) Ilmenite is not recorded separately. The figures refer to exports of "Other ores" which were probably mainly ilmenite.

(d) Imports from India into the United Kingdom and United States.

IMPORTS OF TITANIUM MINERALS, ETC.*

(Less Re-exports)

(Long tons)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Ilmenite	} 37,830	71,250	57,242	{ 69,400	94,652	78,113	102,590
Rutile .. .. .								6,514	6,686	9,102	8,152
Canada—							
Titanium oxide, etc. ..	10,683	12,193	17,541	18,565	24,219	26,471	21,612
Hong Kong (total imports)—							
Titanium oxide	(a)	(a)	(a)	(a)	(a)	(a)	329
Australia—							
Ilmenite (e)	(a)	(a)	(a)	(a)	3,796	5,200	(a)
Titanium white and oxide	(b) 1,450	(b) 590	(b) 734	1,634	2,780	1,689	1,583
New Zealand—							
Titanium white	(a)	(a)	(a)	(a)	1,201	731	(a)
FOREIGN COUNTRIES							
Austria—							
Titanium white	(a)	10	114	296	527	585	399
Belgium-Luxemburg E.U.—							
Titanium white	(a)	(a)	731	850	968	1,303	1,898
Czechoslovakia—							
Titanium white	—	20	—	(a)	(a)	(a)	(a)
France—							
Titanium oxide, etc. ..	316	496	140	1,123	2,100	1,650	2,002
Iceland—							
Titanium white	12	(a)	(a)	182	103	—	(a)
Italy—							
Ferro-titanium	—	1	10	63	14	52	155
Titanium oxide	(a)	—	—	13	300	259	735
Netherlands—							
Titanium oxide	91	424	2,002	1,895	(a)	(a)	(a)
Titanium white	206	603	64	93	(a)	(a)	3,527
Portugal—							
Ilmenite	—	—	(a)	(a)	1	1	20
Ore	15	3	(a)	40	8	37	35
Sweden—							
Ore	(a)	(a)	(a)	(a)	1,482	2,804	2,664
Titanium white	(a)	(a)	(a)	1,696	2,864	3,274	2,977
Mexico—							
Titanium oxide	294	348	591	823	1,234	1,255	1,592
United States—							
Ilmenite	(c) 215,136	(d) 273,547	216,177	289,425	193,267	(f) 168,821	(f) 159,297
Rutile	(c) 3,936	(d) 6,765	7,831	2,755	3,060	9,842	17,316
Ferro-titanium	3	40	25	34	116	222	100
Titanium compounds ..	11	11	11	2	608	233	32
Brazil—							
Titanium oxide	103	277	412	1,151	(a)	2,067	2,385
Chile—							
Titanium oxide	128	(a)	(a)	(a)	(a)	(a)	(a)
Japan—							
Ilmenite	—	1,443	—	1,996	7,620	25,015	5,877

* Imports of ilmenite are generally not separately recorded in Customs Returns.

(a) Information not available.

(b) Year ended June 30 of that stated.

(c) In addition the U.S. Bureau of Mines records 1,239 long tons of Ilmenite and 1,300 long tons of Rutile contained in "zirconium ores" imported from Australia.

(d) In addition the U.S. Bureau of Mines records 4,519 long tons of Rutile contained in "Ilmenite" imported from Australia.

(e) Estimated.

(f) Including Titanium dioxide slag (70% TiO₂) imported from Canada.

TUNGSTEN

PRODUCTION OF TUNGSTEN ORES AND CONCENTRATES (Long tons)

Producing Country	Estimated WO ₃ Content													
	1946	1947	1948	1949	1950	1951	1952	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES														
Great Britain—														
Concentrates	89	66	39	65	61	51	31	64	53	27	48	45	36	21
Nigeria—														
Concentrates	5	3	3	5	5	20	21	3	2	2	3	3	13	14
South West Africa—														
Wolfram	—	3	4	1	13	18	99	—	2	3	1	9	12	63
Scheelite	—	5	6	4	4	11	8	—	4	4	3	3	8	6
Tin-wolfram concentrates	—	—	—	90	94	59	(e) 70	—	—	—	13	13	9	10
Southern Rhodesia—														
Concentrates	48	24	70	24	58	210	384	34	17	50	17	42	151	276
Tanganyika—														
Wolfram	—	—	1	51	31	34	37	—	—	1	32	19	20	22
Uganda—														
Wolfram	79	131	164	174	144	161	107	53	88	115	121	101	109	75
Union of South Africa—														
Concentrates	126	79	140	374	86	172	242	84	53	89	247	56	111	154
Canada (b)—														
Concentrates	—	298	629	149	842	2	1,684	—	221	467	113	127	1	667
Hong Kong—														
Wolfram	—	—	—	—	—	20	97	—	—	—	—	—	13	63
India—														
Concentrates	3	—	—	—	—	14	10	2	—	—	—	—	9	6
Malaya—														
Wolfram	9	33	46	28	13	28	44	6	23	32	20	9	20	32
Scheelite	—	11	29	30	10	18	24	—	8	20	21	7	13	17
Australia—														
Wolfram (d)	321	388	428	385	282	697	889	206	248	292	264	198	467	575
Scheelite	693	664	651	809	801	1,031	669	452	433	445	550	530	632	407
New Zealand—														
Scheelite	27	22	25	25	22	32	57	18	14	16	16	14	21	37

(a) Information not available.

(b) Shipments (chiefly scheelite).

(c) Exports.

(d) Includes some mixed wolfram-scheelite concentrates.

(e) Estimated.

PRODUCTION OF TUNGSTEN ORE AND CONCENTRATES (Cont.)

Producing Country	Estimated WO ₃ Content						
	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES							
Finland—							
Concentrates	—	—	3	37	15	6	40
France—							
Concentrates	224	354	488	634	402	697	858
Italy—							
Ore	15	19	8	3	2	7	5
Norway—							
Wolfram	—	—	—	—	—	—	11
Portugal (c)—							
Scheelite	1	17	2	9	46	123	187
Wolfram	260	2,640	2,576	2,368	2,358	4,337	4,371
Tin-tungsten ores	44	174	261	375	402	564	619
Spain—							
Concentrates	390	418	794	806	772	1,835	2,148
Tin-tungsten ores	(a)	(a)	(a)	(a)	110	390	396
Sweden—							
Concentrates	691	506	527	678	528	553	431
Algeria	—	—	—	—	—	30	72
Belgian Congo—							
Concentrates	384	174	215	327	194	390	620
Tin-tungsten ore	—	553	391	68	439	540	904
Egypt—							
Concentrates	—	—	15	—	—	7	19
Morocco (French)—							
Ore	—	—	—	—	7	41	22
Mexico	(a)	(a)	(a)	73	62	633	1,236
United States—							
Concentrates	4,382	2,839	3,784	2,717	3,720	5,548	6,800
Argentina—	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Bolivia (exports)—	2,351	2,909	2,240	2,261	2,422	2,675	3,650
Brazil (exports)—	1,452	1,208	1,039	558	690	961	180
Concentrates	—	—	—	—	—	—	—

(a) Information not available.

(b) Approximately 40% Scheelite and 60% Wolfram.

(c) In addition 460 tons of mixed Pyrites-Wolfram ore containing 10-17% WO₃ were produced in 1947.

PRODUCTION OF TUNGSTEN ORE AND CONCENTRATES (Cont.)

Producing Country	Estimated WO ₃ Content													
	1946	1947	1948	1949	1950	1951	1952	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)														
Peru— Concentrates	421	566	364	470	508	(a)	(a)	301	342	208	268	305	277	(a)
Burma— Tungsten concentrates ..	73	349	356	278	269	483	792	(a)	(a)	231	181	175	314	515
Tin-wolfram concentrates	(a)	(a)	2,100	600	901	1,207	1,954	(a)	(a)	(a)	(a)	(a)	(a)	(a)
China— Concentrates	2,224	6,303	9,180	(b) 9,000	(b) 12,400	(b) 13,000	16,200	1,400	4,100	5,500	5,400	7,400	7,800	9,700
Japan— Scheelite	56	20	7	17	22	209	581	35	13	5	12	15	99	285
Korea (South)— Concentrates	1,161	2,167	1,160	1,321	(a)	1,044	3,730	700	1,300	735	855	(a)	679	2,425
Siam— Concentrates	182	441	449	674	1,125	1,321	1,601	119	287	292	438	731	859	1,041
Tin-tungsten concentrates	(a)	(a)	(a)	327	—	—	—	(a)	(a)	(a)	(a)	—	—	—

Tungsten ores are also produced in U.S.S.R.

(a) Information not available.

(b) Revised estimates.

(c) Includes some Tungsten concentrates.

EXPORTS OF TUNGSTEN, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Tungsten ore	18	10	66	158	1	—	—
Ferro-tungsten	277	960	1,082	911	1,171	394	96
Tungsten, metal etc. ..	30	54	110	92	149	83	22
Nigeria—							
Tungsten ore	2	5	3	3	5	19	46
Southern Rhodesia—							
Tungsten ores	132	13	75	21	30	169	399
South West Africa—							
Tungsten ore	4	17	18	9	21	18	128
Tin-tungsten ore	—	—	—	98	99	39	—
Tanganyika—							
Wolfram ore	—	—	1	29	52	34	40
Uganda—							
Wolfram ore	84	131	104	139	189	159	126
Union of South Africa—							
Tungsten ore	169	104	127	312	253	204	213
Burma—							
Tungsten ore and concentrates (b)	(d) 15	(a)	(a)	(a)	(a)	(a)	(a)
Hong Kong (re-exports)—							
Tungsten ore	656	992	3,307	3,714	2,530	192	216
India—							
Tungsten and tin-tungsten ores	12	5	—	—	—	5	—
Malaya (c)—							
Wolfram	83	375	158	87	111	213	126
Scheelite	(a)	8	36	29	11	12	27
Australia—							
Wolfram	545	345	345	273	147	344	968
Scheelite	592	949	879	906	253	55	1,020
Tungsten ore and concentrates (f)	—	(e) 19	(e) 99	120	578	1,179	21
New Zealand—							
Scheelite	21	16	28	28	29	39	49
FOREIGN COUNTRIES							
Portugal—							
Tungsten ore	1,974	3,005	2,650	2,500	2,597	4,082	4,329
Spain—							
Tungsten ore	52	1,431	558	478	706	1,402	2,913
Sweden—							
Ore	—	10	—	—	36	141	148
Ferro-tungsten	288	1,024	704	759	758	347	107
Algeria—							
Tungsten ore	—	—	—	—	—	(a)	71
Belgian Congo—							
Tungsten ores	(a)	564	252	176	598	464	841
Morocco (French)—							
Tungsten ore	—	—	—	—	(a)	15	17
Mexico—							
Tungsten ore and concentrates	56	173	390	111	111	635	1,289
WO ₂ content	45	46	80	39	40	192	238

(a) Information not available.

(b) Including tin-tungsten concentrates.

(c) Including re-exports.

(d) February to September only.

(e) Year ended June 30 of that stated.

(f) Classified as "not elsewhere indicated" but believed to be chiefly Scheelite.

EXPORTS OF TUNGSTEN, ETC. (Cont.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
United States—							
Ore and concentrates ..	35	139	370	91	6	—	10
Ferro-tungsten	81	37	560	277	149	127	132
Tungsten metal, wire and alloys	62	109	81	48	68	111	31
Argentina—							
Tungsten ore	474	(a)	81	(a)	(a)	(a)	(a)
Bolivia—							
Tungsten ore (WO ₃ content)	1,252	1,556	1,467	1,502	1,467	1,605	2,189
Brazil—							
Tungsten ore	1,452	1,208	1,039	558	690	961	180
(WO ₃ content)	958	785	656	340	448	590	(a)
Peru—							
Tungsten ore and concentrates (WO ₃ content) ..	412	222	139	131	393	285	223
China—							
Tungsten ore	4,855	6,012	12,848	(a)	(a)	(a)	(a)
French Indo-China—							
Tungsten ore	165	(a)	—	—	—	—	—
Korea—							
Tungsten ore (b) ..	(a)	(a)	1,800	(a)	(a)	(a)	(a)
Siam—							
Tungsten ore	(a)	(a)	615	778	802	1,317	1,380

(a) Information not available.

(b) Estimated imports into Japan from the country indicated.

IMPORTS OF TUNGSTEN, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Tungsten ores	2,085	7,070	7,676	5,616	5,778	4,743	8,298
Tungsten, metal etc. ..	1	1	1	1	3	3	8
Canada—							
Tungsten ore	1	44	74	25	25	25	2,458
Ferro-tungsten	26	306	172	135	96	450	220
Hong Kong (b)—							
Tungsten ore	799	1,707	2,402	4,810	47	—	—
Malaya (b)—							
Wolfram	—	—	56	15	11	84	50
FOREIGN COUNTRIES							
Austria—							
Tungsten ore	(a)	(a)	(a)	(a)	(a)	180	28
Ferro-tungsten	(a)	(a)	(a)	(a)	698	398	210
Belgium-Luxemburg E.U.—							
Tungsten ore	(a)	(a)	(a)	(a)	(a)	(a)	2,195
Ferro-tungsten	(a)	(a)	(a)	(a)	(a)	(a)	345
Germany (Federal)—							
Tungsten ore	(a)	(a)	4,475	678	1,790	2,872	2,142
Italy—							
Ferro-tungsten	93	74	197	252	83	77	90
Netherlands—							
Tungsten ore	(a)	(a)	(a)	(a)	(a)	115	147
Sweden—							
Tungsten ore	1,058	2,555	2,169	2,135	1,581	984	684
Ferro-tungsten	20	—	5	24	72	10	—
United States—							
Tungsten ore	8,019	5,924	7,496	5,876	12,831	5,316	16,928
(WO ₃ content)	4,790	4,079	4,770	3,764	8,879	3,595	9,810
Tungsten metal (WO ₃ content)	5	6	—	8	119	48	1
Ferro-tungsten	—	—	—	28	785	901	281
Japan—							
Tungsten ore	(a)	5	(a)	(a)	9	144	2,081

(a) Information not available.

(i) Total imports.

URANIUM MINERALS*
EXPORTS OF URANIUM MINERALS, ETC.
(Domestic Produce)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom— Radium compounds Grains	(£705)	5	8	1	294	118	14
Canada— Radium and salts £	84,122	381,102	216,439	43,920	—	—	(a)
FOREIGN COUNTRIES							
France— Radium and radium products Lb.	44	—	—	—	—	—	—
Portugal— Uranium ore .. Cwt.	—	—	1	—	—	—	—
Belgian Congo— Uranium minerals Cwt.	(a)	(a)	(a)	(a)	(a)	(a)	(a)
United States— Radium metals (Ra content) Mgrams.	1,616	68	546	428	250	8,892	1,143
Mozambique— Uranium minerals Cwt.	—	—	—	787	—	1,838	(a)

* Statistics of the production of Uranium are no longer published.

(a) Information not available.

IMPORTS OF URANIUM MINERALS, ETC.
(Less Re-exports)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom— Uranium minerals Cwt.	—	—	—	—	4	—	—
Radium compounds Grains	65	520	747	621	191	401	358
Canada— Radium £	4,062	54,990	90,694	18,300	115,182	125,378	22,673
FOREIGN COUNTRIES							
France— Uranium oxide .. Cwt.	10	4	(a)	(a)	(a)	—	—
Radium and radium products Lb.	496	86	4	2	—	—	—
Egypt— Radium £	284	73	6	2	—	1,000	—
United States— Uranium oxide and salts Cwt.	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Radium salts Mgrams.	16,596	76,681	77,018	98,032	80,969	(£437,701)	(a)
Brazil— Radium and radium products Mgrams.	1,663	834	1,265	221	(a)	(a)	1,363
Chile— Uranium and compounds Lb.	7	(a)	(a)	(a)	(a)	(a)	(a)
Radium compounds Grams.	50	(a)	(a)	(a)	(a)	(a)	(a)
Peru— Radium salts .. Lb.	265	(a)	(a)	(a)	(a)	(a)	(a)
Turkey— Uranium salts .. Lb.	15	8	4	—	—	—	2

(a) Information not available.

VANADIUM
PRODUCTION OF VANADIUM ORES
(In terms of metal)
(Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Northern Rhodesia ..	67	56	171	151	—	86	43
South West Africa ..	457	222	180	160	290	521	614
FOREIGN COUNTRIES							
Argentina	6	7	(a)	(a)	(a)	(a)	(a)
United States (shipments)	568	946	(a)	(a)	(a)	(a)	(a)
Peru	317	428	503	414	426	645	(a)

Vanadium ore is also produced in Mexico.
(a) Information not available.

EXPORTS OF VANADIUM
(Domestic Produce)
(Long tons)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Ferro-vanadium ..	(a)	57	131	87	209	58	73
Northern Rhodesia—							
Oxide, fused ..	22	146	159	131	213	120	122
South West Africa—							
Concentrates	900	2,753	(b) 460	(b) 639	(b) 414	(b) 1,072	(b) 2,131
FOREIGN COUNTRIES							
Italy—							
Oxide	(a)	(a)	(a)	(a)	—	197	187
Sweden—							
Ferro-vanadium ..	—	42	114	80	121	70	28
Mexico—							
Concentrates	(a)	—	56	163	89	—	234
Flue dust (<i>V content</i>) ..	(a)	—	—	—	61	51	167
United States—							
Ore and concentrates (<i>V content</i>)	3	6	11	10	1	1	54
Metal, alloys and scrap	—	11	1	1	2	1	46
Ferro-vanadium ..	51	80	107	87	37	55	131
Peru—							
Ore and concentrates (<i>V content</i>)	327	417	443	293	641	458	435

(a) Information not available.

(b) V_2O_5 content of lead-vanadate concentrates, the gross weight of which is included under "Lead" up to 1951.

IMPORTS OF VANADIUM

(Less Re-exports)

(Long tons)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Ore	914	1,006	1,550	1,006	1,270	602	591
Oxide	20	46	42	121	173	68	155
Other compounds ..	3	94	—	3	—	(940 lbs.)	3
FOREIGN COUNTRIES							
France—							
Oxide	609	70	(a)	(a)	(a)	20	288
Italy—							
Oxide	(a)	(a)	(a)	(a)	(a)	5	40
Ferro-vanadium ..	—	17	14	52	53	59	54
Sweden—							
Ore	26	159	—	3	25	20	7
Ferro-vanadium ..	1	42	114	3	21	(a)	1
United States—							
Ore	1,243	1,462	1,801	906	2,281	1,738	1,937
(V content)	353	439	534	246	650	439	466
Flue dust (V content) ..	10	32	—	—	—	—	3
Japan—							
Ore	(a)	21	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

ZINC
PRODUCTION OF ZINC ORE
(In terms of metal)
(Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Great Britain	—	—	—	—	35	191	1,525
Kenya (exports)	—	—	—	—	—	60	120
Nigeria	—	6	357	73	—	—	—
Northern Rhodesia (b) ..	17,568	21,600	23,940	27,180	37,668	36,259	36,728
South West Africa	—	(d) 5,300	11,343	12,962	11,787	14,582	15,400
Canada (b)	210,098	185,592	209,075	} 257,377	279,667	304,564	327,478
Newfoundland	48,653	39,481	38,633				
India	—	—	—	—	(e) 300	1,050	2,070
Australia	171,910	182,258	190,469	181,998	202,384	194,718	201,152
TOTAL	448,200	434,200	473,800	479,600	531,800	551,400	584,500
Irish Republic	—	—	(a)	—	750	2,318	900
FOREIGN COUNTRIES							
Austria	900	1,450	3,104	3,770	3,960	4,613	6,055
Finland (b)	1,880	1,901	2,447	2,435	2,142	3,901	1,357
France	4,770	5,730	5,985	10,735	11,986	12,394	(e) 14,000
Germany (Federal)	22,186	24,689	33,335	(f) 56,906	69,045	74,105	79,406
Greece	485	1,239	2,867	3,306	3,226	4,234	4,548
Italy	28,800	56,900	72,400	70,800	83,868	94,169	103,272
Norway	4,243	5,548	6,220	6,499	5,612	5,383	5,500
Poland	(c) 55,720	(c) 70,623	(c) 85,714	(a)	(a)	(a)	(e) 125,000
Spain (f)	36,212	39,125	43,349	51,168	65,270	74,353	83,031
Sweden	37,224	35,358	34,925	34,603	36,535	37,713	46,417
U.S.S.R. (smelter) (e) ..	90,000	105,000	145,000	175,000	210,000	240,000	300,000
Yugoslavia	22,000	34,000	35,000	43,000	37,491	38,798	47,035
Algeria	3,800	5,760	6,030	6,396	7,064	7,116	11,300
Angola	—	—	—	—	—	350	42
Belgian Congo	34,981	39,519	44,894	55,919	75,107	88,138	96,926
Egypt	—	117	—	280	376	1,409	872
French Equatorial Africa ..	—	—	—	43	566	512	387
Morocco (French)	1,660	1,722	2,290	2,707	11,232	19,140	27,902
Tunis	1,529	2,540	2,342	3,263	2,886	3,460	3,484
Mexico	137,331	192,721	176,202	175,585	220,000	177,220	223,784
Salvador	(a)	(a)	(a)	(a)	(a)	(a)	130
United States (b)	513,244	569,293	562,479	529,646	556,585	608,204	590,199
Argentina	14,492	15,974	11,996	10,748	12,498	15,230	15,153
Bolivia (exports)	18,885	14,381	20,789	17,388	19,269	30,053	35,056
Peru (b)	58,793	57,262	57,913	70,899	86,491	99,699	118,775
Japan	20,716	29,068	32,904	43,572	51,323	63,403	86,088
Philippine Republic	(a)	(a)	(a)	(a)	(a)	153	1,571
Turkey	41	587	2,344	192	31	401	791
TOTAL	1,100,000	1,300,000	1,390,000	1,450,000	1,660,000	1,800,000	2,020,000
WORLD'S TOTAL	1,550,000	1,730,000	1,864,000	1,930,000	2,192,000	2,357,000	2,605,000

- (a) Information not available.
(b) Recoverable.
(c) Smelter production.
(d) Content of ore sorted ex dumps.
(e) Estimated.
(f) Revised.

METAL PRODUCTION OF ZINC

(Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom	65,517	68,296	71,983	64,115	70,290	69,734	68,733
Northern Rhodesia	17,184	21,140	22,170	22,850	22,715	22,590	22,890
Canada	165,788	159,164	175,513	183,969	182,471	195,159	199,231
Australia	76,316	69,421	81,312	80,956	83,652	77,010	87,438
TOTAL	324,805	318,021	350,978	351,890	359,128	364,493	378,292
FOREIGN COUNTRIES							
Belgium	71,266	126,323	143,881	171,335	174,525	197,713	183,849
France	30,524	42,300	53,024	59,643	70,401	73,382	78,799
Germany (Federal) (b)	14,620	20,396	40,704	85,547	120,854	138,416	144,887
Italy	15,021	23,697	25,981	26,033	37,517	46,481	53,963
Netherlands	1,979	9,381	13,373	15,368	19,440	22,284	25,492
Norway	29,733	34,034	41,337	40,441	42,491	40,180	38,612
Poland	55,720	70,623	85,714	(a)	(a)	(a)	(c) 125,000
Spain	17,291	19,511	20,869	19,242	20,928	21,008	20,869
U.S.S.R. (c)	90,000	105,000	145,000	175,000	210,000	240,000	300,000
Yugoslavia	3,242	6,396	6,340	8,682	10,673	13,014	14,235
Mexico	41,319	55,853	47,560	52,651	48,294	51,777	54,871
United States (d) (e)	650,234	716,513	703,361	727,484	753,096	787,172	807,571
Argentina	1,785	2,600	1,577	2,606	(c) 7,400	(c) 8,500	(c) 8,500
Peru	921	997	680	587	1,242	856	4,903
Japan	11,078	14,598	20,845	31,806	48,234	55,450	68,926
TOTAL	1,050,000	1,250,000	1,350,000	1,510,000	1,650,000	1,800,000	1,930,000
WORLD'S TOTAL	1,375,000	1,568,000	1,701,000	1,862,000	2,010,000	2,164,000	2,308,000

(a) Information not available.

(b) British Zone only up to 1948. Including secondary.

(c) Estimated.

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

1946	268,466	1950	291,098
1947	277,494	1951	280,694
1948	289,856	1952	277,163
1949	212,333		

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

	1946	1947	1948	1949	1950	1951	1952
A—High grade—Special	210,879	213,637	221,737	205,871	242,570	251,403	264,108
Ordinary	161,041	170,026	175,430	184,510	171,496	156,696	162,612
B—Intermediate grade	28,834	32,868	34,725	19,208	19,260	18,512	15,985
C and D—Brass special	67,229	54,557	41,023	50,346	41,723	54,028	43,587
Selected	12,229	11,468	4,217	2,290	3,590	12,048	12,150
E—Prime Western	209,769	287,120	281,871	314,402	334,252	337,929	358,336

PRODUCTION OF ELECTROLYTIC ZINC*

(Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
Northern Rhodesia ..	7,176	14,753	15,114	15,372	14,923	10,676	18,785
Canada	165,788	159,164	175,513	183,969	182,471	195,159	199,231
Australia (Tasmania) ..	76,316	69,421	81,312	80,956	83,652	77,010	87,438
FOREIGN COUNTRIES							
Belgium	11,338	14,271	15,649	(a)	(a)	(a)	(a)
France	17,726	20,147	23,610	24,738	(a)	31,628	(a)
Italy	14,310	18,621	22,457	22,174	30,972	38,191	44,916
Norway	29,733	34,034	41,337	40,441	42,491	40,180	38,612
Poland	10,391	14,265	(a)	(a)	(a)	(a)	(a)
United States	251,156	263,857	278,997	291,207	305,433	300,078	313,500
Japan	6,043	8,536	12,397	20,681	32,193	37,642	48,563

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

(a) Information not available.

PRODUCTION OF ZINC DUST

(Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom	6,180	5,319	6,976	7,468	8,872	9,579	6,230
Northern Rhodesia ..	6	30	29	15	24	5	—
Australia (sales)	(a)	(a)	(a)	317	(a)	(a)	(a)
FOREIGN COUNTRIES							
Belgium	1,486	3,376	4,232	(a)	(a)	(a)	(a)
France	826	137	1,093	2,552	(a)	19,724	(a)
Germany (Federal)	(a)	(a)	1,753	2,482	4,876	6,976	4,614
Poland	1,198	2,148	(a)	(a)	(a)	(a)	(a)
United States	25,512	27,323	28,765	20,336	25,823	28,299	22,422

(a) Information not available.

PRODUCTION OF ROLLED ZINC SHEETS, PLATES AND STRIPS

(Long tons)

Producing Country	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom	26,424	26,098	27,685	25,196	28,196	21,349	16,705
FOREIGN COUNTRIES							
Belgium	36,435	46,769	35,303	32,317	(a)	(a)	(a)
Poland	27,503	(c) 34,000	(c) 37,000	(a)	(a)	(a)	(a)
United States (b)	81,297	63,569	69,347	51,774	62,567	59,007	47,754
Japan	1,736	5,019	8,941	6,023	4,205	(a)	(a)

(a) Information not available.

(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
1946	16,670	1950	12,358
1947	13,350	1951	10,381
1948	13,421	1952	9,917
1949	8,105		

(c) Estimated

EXPORTS OF ZINC
(Domestic Produce)
(Long tons)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952	
BRITISH COUNTRIES								
United Kingdom—								
Ore and concentrates ..	—	—	6,078	1	311	15	10,430	
Ingots, bars, etc. ..	1,840	308	1,044	358	71	10	129	
Sheets, plates, etc. ..	4,353	2,556	2,909	3,545	3,745	2,097	1,556	
Oxide	22,845	11,216	14,174	12,444	13,490	775	1,641	
Lithopone, etc. ..	7,003	3,969	4,854	8,061	7,360	4,435	3,637	
Kenya—								
Concentrates	—	—	—	—	—	160	297	
Northern Rhodesia—								
Ores and concentrates ..	—	—	—	5,275	—	—	—	
Ingots	17,217	19,178	23,253	22,704	22,670	22,269	21,615	
South West Africa—								
Ores and concentrates (b)	(a)	(a)	9,402	24,163	31,308	(g) 11,467	(g) 15,254	
Southern Rhodesia—								
Fume, dust and shavings	10	8	—	—	—	—	—	
Union of South Africa—								
Bars, sheets, etc. ..	347	378	481	535	75	12	(a)	
Fume, dust, shavings, etc.	38	51	98	88	78	(a)	(a)	
Canada (c)—								
Ore (Zn content)	51,965	36,228	48,417	95,254	115,680	138,030	162,280	
Spelter	129,372	122,525	129,363	150,274	131,143	130,475	148,986	
Dross, scrap and ashes ..	3,346	4,214	6,445	5,379	4,540	4,027	3,238	
Newfoundland (d)—								
Concentrates	93,580	69,360	76,175	(d)	(d)	(d)	(d)	
Hong Kong (re-exports)—								
Bars, pipes, rods, etc. ..	37	64	1,446	1,336	1,912	1,392	2	
Plates and sheets	1,197	3,991						
Oxide	(a)	(a)	(a)	(a)	(a)	(a)	87	
Lithopone	(a)	(a)	(a)	(a)	(a)	(a)	599	
India—								
Concentrates, etc. ..	—	2	10	102	3,555	1,882	4,684	
Malaya (e)—								
Sheets, etc.	19	104	164	430	182	148	187	
Australia—								
Ores and concentrates (Zn content)	(f) 95,144	(f) 90,114	(f) 84,309	76,675	89,819	80,500	110,728	
Dust	(£42,448)	122	46	58	37	2	63	
Blocks	49,821	28,408	33,715	33,595	43,001	20,529	44,741	
Scrap and shavings ..	(f) 283	(f) 617	(f) 325	245	48	87	40	
Plates and strips ..	1,223	1,871	1,535	339	1,265	228	130	
Irish Republic—								
Ore (Zn content)	(a)	(a)	(a)	(a)	(a)	(a)	900	
FOREIGN COUNTRIES								
Austria—								
Ore	(a)	6,430	2,337	5,399	5,963	302	6,875	
Spelter and alloys ..			2	98	—	—	262	37
Scrap			192	965	2,475	1,763	1,198	1,674
Zinc-white and zinc-grey			298	—	—	—	—	—
Lithopone			98	177	—	30	1,225	448
Belgium-Luxembourg E.U.—								
Ore	(a)	32,301	41,690	41,914	35,144	45,511	35,108	
Spelter			76,847	106,641	112,021	93,688	119,278	
Scrap			778	3,476	1,823	73	68	
Sheets, tubes and wire ..			12,564	8,277	12,701	20,914	11,744	
Dust			(a)	2,454	5,406	4,440	3,085	
Oxide			7,760	5,934	5,207	6,585	—	
Lithopone			8,693	6,921	12,020	15,159	3,624	

(a) Information not available.

(b) Excluding zinc contained in lead concentrates.

(c) Including Newfoundland from April 1, 1949.

(d) Years ended March 31 following that stated. Included with Canada from April 1, 1949.

(e) Including re-exports.

(f) Years ended June 30 of year stated.

(g) Zn content.

EXPORTS OF ZINC (Cont.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Czechoslovakia—							
Ore	(a)	—	(b) 2,993	(a)	(a)	(a)	(a)
Spelter, scrap and alloys	53	877	(b) 72	(a)	(a)	(a)	(a)
Sheets and plates	653	181	(b) 267	(a)	(a)	(a)	(a)
Zinc-white and zinc-grey	1,379	1,071	(b) 333	(a)	(a)	(a)	(a)
Lithopone	783	2,593	(b) 1,025	(a)	(a)	(a)	(a)
Denmark—							
Spelter	184	189	238	2	958	1,841	1,015
Scrap	1,099	597	759	1,240	1,520	326	142
Finland—							
Concentrates	3,486	4,029	10,785	8,168	5,505	6,815	(a)
Bars, sheets, scrap etc., ..	—	—	—	—	42	132	(a)
France—							
Ore	3,432	1,677	—	—	334	2	47
Spelter, bars and scrap ..	54	113	37	698	3,695	535	770
Sheets	853	1,808	1,835	3,915	3,734	2,765	2,300
Oxide	398	1,163	1,614	1,699	2,450	2,065	1,538
Lithopone, etc.	150	153	393	1,128	1,563	1,755	1,167
Germany (Federal)—							
Ore			—	3	591	—	—
Spelter, dust and alloys ..			—	688	10,474		
Scrap			—	432	98	9,469	33,982
Sheets and wire	(a)	(a)	—	187	4,580	3,771	146
Zinc-white, zinc-grey and lithopone			16,844	33,295	47,019	51,526	30,421
Greece—							
Ore	(a)	—	7,042	6,446	(a)	4,422	(a)
Italy—							
Ore	24,802	68,143	90,304	81,970	87,439	74,414	60,536
Spelter, scrap and alloyed	4,331	604	7,082	1,678	8,077	6,334	9,406
Sheets, wire and alloyed, etc.	305	96	113	49	10	—	9
Oxide	(a)	246	161	204	985	5,203	836
Lithopone	(a)	169	1,647	1,972	3,656	5,307	1,988
Netherlands—							
Spelter			785	5,179	10,098	17,134	16,545
Scrap	3,338	4,731	1,103	1,172	1,446	1,398	1,213
Sheets	360	375	758	704	2,105	927	1,459
Norway—							
Ore	5,659	7,379	640	167	1,787	3,259	—
Electrolytic zinc	23,868	23,579	29,859	28,900	32,625	28,754	27,199
Bars, sheets, wire, etc. ..	361	6	2	4	345	(a)	(a)
Ashes and scrap	507	236	360	460	844	1,934	1,476
Poland—							
Spelter, dust and scrap	(a)	13,968	(a)	(a)	(a)	(a)	(a)
Sheets, tubes and wire ..	26,066	18,448	(a)	(a)	(a)	(a)	(a)
Oxide	(a)	7,994	(a)	(a)	(a)	(a)	(a)
Lithopone	(a)	638	(a)	(a)	(a)	(a)	(a)
Portugal—							
Bars	27	10	139	54	72	291	28
Zinc-white	18	27	33	21	21	33	27
Spain—							
Ore (Blende)	45,074	52,043	49,897	38,294	80,352	77,244	81,121
Bars, scrap, sheets, wire, etc.	783	1,022	917	1,285	2,053	2,927	(a)
Sweden—							
Ore	95,030	75,337	73,506	66,244	65,932	63,003	80,030
Spelter	63	—	10	5	2	269	194
Scrap	332	158	2,123	1,640	2,576	2,366	50
Zinc-white	4	13	—	—	1	34	30

(a) Information not available.

(b) January to October only.

EXPORTS OF ZINC (Cont.)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Switzerland—							
Spelter and scrap ..	522	1,514	1,319	1,077	2,903	4,406	2,770
Dust	(a)	(a)	50	14	9	104	95
Zinc-white, etc. ..	7	46	89	82	66	210	41
Yugoslavia—							
Concentrates	(a)	(a)	(a)	(a)	33,798	14,615	25,057
Spelter	(a)	(a)	(a)	(a)	1,392	2,083	7,555
Dust	(a)	(a)	(a)	(a)	1,257	1,394	1,308
Oxide	(a)	(a)	(a)	(a)	153	240	178
Lithopone	(a)	(a)	(a)	(a)	690	711	547
Algeria—							
Ore	983	17,244	12,752	18,039	16,691	18,338	17,519
Spelter, plates and scrap	90	1,784	329	619	396	751	203
Oxide	—	13	40	—	23	9	5
Belgian Congo—							
Ores and concentrates ..	(a)	84,662	111,061	107,647	127,570	165,971	136,832
French Equatorial Africa—							
Ore	—	—	—	3,937	4,429	5,907	1,968
Morocco (French)—							
Ore	(a)	3,346	3,248	9,252	16,633	33,819	47,281
Tunis (including re-exports)							
Ore	2,810	6,939	5,281	5,908	5,822	8,937	5,846
Mexico—							
Ores and concentrates ..	228,571	285,780	238,167	254,706	233,302	259,726	339,418
Refined	41,162	38,723	42,376	37,695	47,695	41,400	41,519
Zn content (c)	128,143	184,672	170,146	160,756	203,878	158,475	214,803
Oxide (metallurgical) ..	207	4,059	4,981	3,482	11,513	13,497	7,321
do. (other)	53	1,877	47	448	820	1,442	459
United States—							
Ore and dross (b)	79	1,253	3,167	2,612	1,017	2,759	3,009
Spelter	42,164	95,241	58,712	52,419	11,533	32,598	51,530
Scrap (b)	—	(a)	(a)	1,401	5,546	4,119	868
Sheets, strips, etc. ..	10,675	7,099	5,696	5,488	2,937	4,346	2,706
Dust	326	1,470	796	616	451	645	(a)
Oxide	9,781	17,037	7,716	4,500	2,762	7,942	6,799
Lithopone	8,617	12,190	18,763	12,910	8,354	18,280	8,915
Argentina—							
Ore	45,636	} (a)	(a)	(a)	(a)	(a)	(a)
Spelter, bars and sheets	5						
Bolivia—							
Ores (Zn content)	18,885	14,381	20,789	17,388	19,269	30,053	35,056
Chile—							
Bars	126	188	81	(a)	(a)	(a)	(a)
Peru—							
Ores, etc. (Zn content) ..	57,385	57,981	47,523	58,467	71,705	96,526	} 111,213
Bars (Zn Content)	921	825	680	587	1,853	601	
French Indo-China—							
Spelter, sheets and scrap	247	48	109	56	(a)	(a)	(a)
Japan—							
Spelter	2,461	18,149	16,512	(a)	339	(a)	(a)
Oxide	(a)	98	(a)	(a)	171	248	(a)
Turkey—							
Ore	72	7,005	103	165	—	1,715	1,243

(a) Information not available.

(b) Zn content.

(c) Total metal content of above items and not additional.

IMPORTS OF ZINC
(Less Re-exports)
(Long tons)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Ore and concentrates ..	165,497	130,384	156,538	197,872	196,422	179,986	193,030
Ingots, bars, etc. ..	49,394	148,720	167,733	143,043	141,914	121,879	228,835
Sheets, plates, etc. ..	(b) 14	13	14	227	414	1,045	248
Oxide	—	—	49	25	51	1,982	12
Lithopone, etc. ..	70	270	1,202	10,630	12,067	14,693	4,170
Anglo-Egyptian Sudan							
Unwrought incl. scrap ..	19	34	6	7	11	7	(a)
Kenya (c)—							
Bars, plates, sheets, etc. ..	13	11	20	13	18	22	8
Southern Rhodesia—							
Sheets, dust, etc. ..	352	315	289	250	249	141	92
South West Africa—							
Spelter, sheets, etc. ..	2	7	3	13	1	12	(a)
Tanganyika—							
Bars, sheets, etc. ..	—	—	14	9	8	13	19
Union of South Africa—							
Bars, rods, and ingots ..	9,582	9,844	13,300	11,218	14,978	21,806	8,072
Sheets and strips ..	376	689	463	392	327	139	(a)
Lithopone	536	1,136	1,318	1,744	1,454	(a)	(a)
Oxide	2,164	3,556	1,216	208	74	(a)	(a)
Dust and shavings ..	21	89	265	6	98	(a)	(a)
Canada (d)—							
Dust	16	155	213	325	185	198	216
Sheets, plates, bars, etc. ..	1,933	1,704	2,633	1,916	1,586	2,870	1,143
Zinc-white	826	1,968	1,547	977	989	594	649
Lithopone	7,909	11,372	13,203	7,269	7,280	6,171	2,817
Newfoundland (e)—							
Bars, sheets, etc. ..	47	19	22	(e)	(e)	(e)	(e)
Ceylon—							
Blocks, ingots, etc. ..	1	—	—	5	—	—	13
Sheets and plates ..	9	76	16	29	25	29	36
Hong Kong (total imports)—							
Bars, pipes, rods, etc. ..	108	339	1,097	1,656	1,835	2,841	18
Sheets and plates ..	2,095	3,130					
Oxide	(a)	(a)	(a)	(a)	(a)	(a)	17
Lithopone	(a)	(a)	(a)	(a)	(a)	(a)	488
India—							
Spelter	42,148	35,823	32,723	31,769	30,583	17,167	24,021
Sheets, etc.	1,335	1,586	1,722	1,902	2,826	2,842	1,496
Zinc-white	938	968	1,558	823	91	16	15
Lithopone	723	719	1,462	1,349	1,425	2,873	2,184
Malaya (total imports)—							
Sheets	254	958	538	781	1,039	1,053	450
Pakistan (h)—							
Spelter	(a)	(a)	(a)	(a)	(a)	54	277
Zinc-white	(a)	(a)	(a)	(a)	(a)	45	277
Lithopone	(a)	(a)	(a)	(a)	(a)	689	597
Palestine—							
Spelter and sheets ..	783	(a)	(a)	(f)	(f)	(f)	(f)
Lithopone	163	(a)	(a)	(f)	(f)	(f)	(f)
Australia—							
Dust	(£A1)	—	(£A3)	—	—	9	—
Blocks, sheets, scrap, etc.	71	73	115	165	131	196	403
Oxides	1,102	105	20	428	(g) 401	33	49
Lithopone	1,257	1,149	2,088	4,069	2,467	3,666	3,666
New Zealand—							
Spelter, bars and rods ..	325	916	777	790	910	1,261	879
Sheet and plates ..	168	321	166	194	309	219	233

(a) Information not available.

(b) Excess of re-exports.

(c) Includes Uganda up to 1948 inclusive.

(d) Includes Newfoundland from April 1, 1949.

(e) Years ended March 31 of year following that stated. Included with Canada from April 1, 1949.

(f) See "Israel" under Foreign Countries.

(g) Year ended June 30 of that stated.

(h) Years end March 31 following that stated. Included with India prior to 1948.

IMPORTS OF ZINC (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952	
Irish Republic—								
Sheets and plates ..	387	622	435	509	444	132	(a)	
Zinc-white	(a)	(a)	(a)	614	740	864	150	
FOREIGN COUNTRIES								
Austria—								
Spelter and alloys ..	}	{	2,189	1,722	8,146	5,954	7,021	5,530
Sheets, bars, etc. ..			22	29	11	4	24	3
Zinc-white and zinc-grey			32	—	599	115	202	96
Lithopone			11	8	676	297	—	8
Belgium-Luxemburg E.U.—								
Ore	216,456	284,114	363,685	370,939	397,316	445,478	491,061	
Spelter	(a)	(a)	1,981	346	2,253	6,409	865	
Scrap	(a)	(a)	778	3,476	350	424	168	
Sheets, tubes and wire ..	(a)	(a)	17	7	156	52	82	
Dust	(a)	(a)	(a)	236	25	3	—	
Oxide	(a)	(a)	64	190	543	973	658	
Lithopone	(a)	(a)	270	759	2,386	1,467	1,428	
Bulgaria—								
Spelter, bars, sheets and	}	}	(a)	(a)	(a)	(a)	(a)	
scrap								261
Zinc-white								—
Lithopone	131							
Czechoslovakia—								
Spelter and alloys ..	1,998	22,944	(b) 19,879	(a)	(a)	(a)	(a)	
Scrap	—	408	(b) —	(a)	(a)	(a)	(a)	
Zinc-white, zinc-grey, etc.	96	44	(b) 1,006	(a)	(a)	(a)	(a)	
Denmark—								
Spelter	4,803	5,293	5,636	7,441	6,503	7,394	2,415	
Scrap	10	37	127	95	34	45	37	
Plates and sheets ..	6,425	7,299	5,078	3,368	5,378	4,538	3,729	
Zinc-white	3,369	2,911	3,129	2,191	3,029	1,966	1,329	
Lithopone	710	998	2,325	1,942	3,420	3,343	1,610	
Finland (total imports)—								
Spelter	1,700	4,309	1,684	3,201	4,251	4,236	(a)	
Scrap	—	1	50	1	7	1	(a)	
Sheets	131	307	461	1,104	618	643	(a)	
Zinc-white	266	767	1,049	1,766	1,708	1,845	(a)	
France—								
Ore	67,819	92,014	56,946	75,086	151,871	127,938	184,905	
Spelter, bars and scrap ..	51,554	59,490	37,890	49,429	29,437	38,877	43,926	
Sheets	29	4	161	—	6	182	78	
Oxide	3,059	5,295	2,107	3,278	839	5,668	2,213	
Lithopone	356	2,046	2,021	3,142	5,028	10,359	3,873	
Germany (Federal)—								
Ores	}	}	(a)	(a)	(a)	(a)	(a)	
Spelter, dust, scrap and								—
alloys								—
Sheets and wire								10,866
Zinc-white and zinc-grey								(a) 364
Lithopone	(a) 12	—	—	31,319	77,103	79,673		
Greece—								
Spelter, etc.	138	231	411	1,059	860	477	977	
Iceland—								
Zinc-white	85	(a)	(a)	81	100	10	(a)	
Lithopone	16	(a)	(a)	(a)	(a)	(a)	(a)	
Italy—								
Ore and ashes	(a)	1	—	—	24	—	1,045	
Spelter, matte, scrap and	}	}	(a)	(a)	(a)	(a)	(a)	
alloyed.. ..								59
Sheets, wire, etc., and	—	284	295	662	102	—	—	
alloyed.. ..	(a)	118	346	608	775	730	166	
Oxide	(a)	464	145	—	10	30	69	
Lithopone	(a)	464	145	—	10	30	69	

(a) Information not available.

(b) January to October only.

IMPORTS OF ZINC (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Netherlands—							
Ore	22,840	18,478	24,676	50,761	45,260	53,518	83,159
Spelter	} 6,460	} 6,951	} 8,042	} 9,017	} 10,809	} 8,373	} 4,997
Scrap							
Sheets							
Oxide and zinc-white ..							
Lithopone							
	325	411	585	1,135	3,576	3,878	3,294
	5,682	6,675	3,983	3,696	4,334	2,584	1,131
	—	242	134	480	1,403	484	637
Norway—							
Ore	72,200	81,645	61,013	74,106	70,112	88,475	58,119
Ashes and scrap	434	329	300	443	685	563	626
Spelter	348	76	15	—	472	562	1,221
Bars and sheets	187	81	86	96	66	68	77
Zinc-white	951	4,235	1,232	1,746	172	793	542
Lithopone	276	770	452	544	98	818	343
Poland—							
Ores and slag	1,945	39,030	(a)	(a)	(a)	(a)	(a)
Portugal—							
Sheets, etc.	1,791	1,561	1,069	1,289	1,432	674	807
Oxide	1,975	1,590	1,260	1,370	1,094	841	850
Lithopone	162	411	586	610	835	928	1,209
Spain—							
Bars and scrap	2,225	656	98	915	897	14	(a)
Sweden—							
Spelter	25,037	19,209	19,484	21,292	19,888	20,291	26,968
Scrap	258	282	59	58	90	29	31
Sheets	3,538	3,091	3,036	2,248	2,316	3,800	1,186
Zinc-white	10,496	11,076	7,150	5,038	8,221	4,526	3,081
Lithopone, etc.	3,464	3,703	5,634	4,430	6,851	8,532	4,612
Switzerland—							
Spelter and scrap	10,873	11,981	14,903	7,596	7,292	17,224	11,319
Dust	417	1,086	605	596	1,071	1,170	783
Bars, sheets, pipes and wire	1,664	1,921	1,432	965	1,546	2,409	1,003
Zinc-white, lithopone, etc.	5,177	5,115	4,987	4,231	7,055	7,668	4,493
Algeria—							
Spelter, sheets and scrap	571	929	557	831	776	696	630
Oxide	379	741	614	469	601	692	515
Lithopone, etc.	—	49	284	227	455	513	516
Angola—							
Bars, sheets and tubes ..	51	36	(a)	(a)	(a)	(a)	(a)
Egypt—							
Spelter, sheets and scrap	545	859	408	726	487	775	376
Zinc-white	626	572	1,366	646	620	235	185
Lithopone	63	49	154	1,042	2,664	1,370	2,127
Madagascar—							
Spelter, bars and sheets	65	200	65	(a)	(a)	(a)	(a)
Oxide	8	2	44	(a)	(a)	(a)	(a)
Morocco (French)—							
Spelter, sheets and wire	54	26	50	35	46	(a)	443
Lithopone	198	225	309	377	604	(a)	811
Morocco (Spanish)—							
Spelter and sheets	22	164	(a)	(a)	(a)	(a)	(a)
Lithopone	1	3	(a)	(a)	(a)	(a)	(a)
Mozambique—							
Spelter, bars and sheets	24	8	19	16	13	11	(a)
Oxide	33	23	30	20	25	13	(a)
Tunis—							
Sheets	187	396	88	(a)	(a)	(a)	(a)
Oxide	(a)	(a)	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

IMPORTS OF ZINC (Cont.)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
FOREIGN COUNTRIES (Cont.)							
Cuba (total imports)—							
Spelter	(a)	(a)	290	166	163	183	(a)
Sheets	(a)	(a)	106	93	109	148	(a)
Mexico—							
Spelter, sheets and scrap	474	607	473	165	116	36	129
Zinc-white	104	108	4	73	35	14	67
United States—							
Ore (Zn content)	190,557	278,903	166,829	148,844	221,982	214,085	520,330
Spelter	92,915	64,411	82,631	112,111	138,665	78,557	100,938
Dross and scrap	3,650	4,490	9,172	3,332	2,530	5,895	3,118
Sheets	—	60	107	28	189	133	42
Dust	69	—	36	15	421	138	118
Oxide	37	105	24	213	4,549	1,591	155
Lithopone	—	—	—	11	1,073	709	9
Argentina—							
Spelter and bars	7,558	8,579	11,460	10,598	1,406	1,170	(a)
Sheets and plates	3,695						
Zinc-white	1,018	(a)	(a)	(a)	(a)	(a)	(a)
Lithopone, etc.	509						
Brazil (total imports)—							
Bars, sheets and plates ..	4,103	3,139	4,875	9,598	10,394	12,534	10,240
Zinc-white	4,126	7,412	3,873	3,378	(a)	4,544	8,355
Chile—							
Spelter	1,572	900	1,123	1,475	1,451	2,916	1,986
Bars, sheets, etc.	329	(a)	(a)	(a)	(a)	(a)	(a)
Zinc-white and lithopone	1,289	(a)	(a)	(a)	(a)	(a)	(a)
Colombia—							
Spelter, sheets, alloys, etc.	120	(a)	(a)	340	339	(a)	(a)
Zinc-white, etc.	331	(a)	(a)	446	593	(a)	(a)
Peru—							
Spelter, bars, sheets and powder	50	(a)	(a)	71	78	(a)	(a)
Zinc-white and lithopone	505	(a)	266	603	427	384	317
Uruguay—							
Spelter			268	418	500	563	(a)
Lithopone	(a)	(a)	812	297	305	370	(a)
Zinc-oxide			318	216	351	180	(a)
Venezuela—							
Spelter	1	3	100	1	(a)	(a)	(a)
Zinc-white	198	210	385	180	(a)	(a)	(a)
Lithopone	3	62	54	180	(a)	(a)	(a)
China—							
Spelter and dust	6,174	5,054	(a)	(a)	(a)	(a)	(a)
Zinc-white	2,541	2,520	(a)	(a)	(a)	(a)	(a)
Iran (total imports) (b)—							
Spelter, sheets and wire	38	177	(a)	(a)	(a)	20	(a)
Iraq—							
Spelter, sheets, etc.	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Israel—							
Spelter and sheets	(c)	(c)	(c)	1,362	1,096	(a)	(a)
Lithopone	(c)	(c)	(c)	—	218	(a)	(a)
Japan—							
Ore	—	1,149	1,746	—	403	11,515	15
Spelter	(a)	742	(a)	(a)	1,397	12,153	(a)
Syria and Lebanon—							
Spelter	—	(a)	(a)	(a)	(a)	(a)	(a)
Sheets	143	(a)	(a)	(a)	(a)	(a)	(a)
Turkey—							
Spelter	218	328	113	196	38	169	251
Bars, tubes, and wire	2,355	2,154	1,239	2,396	2,237	1,341	2,301
Oxide	391	1,023	1,050	1,325	637	566	1,118
Lithopone	264	417	463	883	1,199	1,322	1,597

(a) Information not available.

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

(c) See Palestine under British Countries.

ZIRCONIUM MINERALS
PRODUCTION OF ZIRCONIUM MINERALS
(Long tons)

Producing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
India	466	(a)	(a)	(a)	(a)	(a)	(a)
Australia—							
Zircon (b)	12,403	21,576	21,889	20,675	21,535	43,816	30,319
Zircon concentrates (c)	8,313	15,391	19,063	18,873	21,805	42,410	29,691
FOREIGN COUNTRIES							
Egypt	4	—	93	126	93	3	118
French West Africa ..	—	38	188	241	—	21	—
Madagascar	—	—	—	—	—	—	4
Brazil	(d) 4,382	(d) 3,915	(d) 3,581	(d) 2,243	2,968	3,441	(d) 2,165

Zircon is also produced in the United States.

(a) Information not available.

(b) Estimated zircon content of all zircon-bearing concentrates

(c) Zircon content included above and not additional.

(d) Exports.

EXPORTS OF ZIRCONIUM MINERALS
(Domestic Produce)
(Long tons)

Exporting Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
India—							
Zircon sand	279	6,499	(a)	(a)	(a)	(a)	(a)
Australia—							
Zircon concentrates ..	7,571	8,832	12,887	17,783	19,609	38,485	26,083
Zircon-rutile	5,768	10,370	4,160	2,964	1,564	—	—
Zircon-rutile-ilmenite ..	2,458	2,063	180	—	4	—	—
FOREIGN COUNTRIES							
French West Africa—							
Zircon	—	26	70	—	69	21	—
Brazil	4,382	3,915	3,581	2,243	950	2,360	2,165
United States—							
Ores and concentrates ..	232	295	278	273	468	330	522

(a) Information not available.

IMPORTS OF ZIRCONIUM MINERALS

(Less Re-exports)

(Long tons)

Importing Country and Description	1946	1947	1948	1949	1950	1951	1952
BRITISH COUNTRIES							
United Kingdom—							
Zirconium ores	814	598	2,654	2,495	2,769	5,690	3,454
Canada—							
Zirconium oxide	(£12,783)	(£15,444)	(£8,541)	(£14,725)	(£11,222)	(£7,834)	(£8,579)
Zirconium silicate	(£6,203)	(£9,271)	(£12,239)	(£20,516)	(£26,319)	(£29,950)	(£38,340)
FOREIGN COUNTRIES							
United States—							
Zirconium ore (b)	15,013	27,407	14,973	18,601	15,023	24,367	21,345
Zircon (c)	10,299	20,292	12,387	13,055	13,480	(a)	(a)
Baddeleyite (d)	2,171	4,124	3,172	1,780	622	1,861	1,760

(a) Information not available.

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

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

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

MISCELLANEOUS MINERALS

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

Country and Description	1946	1947	1948	1949	1950	1951	1952
SELENIUM							
PRODUCTION—							
Northern Rhodesia Lb. (b)	108,889	11,826	21,132	20,958	27,056	9,772	31,758
Canada Lb.	521,867	501,090	390,894	318,225	261,973	382,603	265,600
Australia .. Lb.	1,566	1,603	1,656	1,362	2,394	1,924	(a)
Finland Lb.	(a)	(a)	2,075	2,793	1,517	3,146	5,758
Sweden (exports) Lb.	122,246	89,098	50,521	21,305	83,776	90,390	98,291
Mexico Lb.	—	(a)	(a)	(a)	1,458	—	(a)
United States .. Lb.	291,103	512,648	561,156	468,502	511,325	457,004	687,384
Japan Lb.	1,642	4,815	10,055	20,163	32,196	43,998	58,694
EXPORTS—							
Canada (d) .. Lb.	723,490	673,588	447,885	343,784	542,401	370,473	244,121
Belgium-Lux. E.U. Lb.	(a)	(a)	(a)	(a)	(a)	24,251	37,479
Sweden Lb.	122,246	89,098	50,521	21,305	83,776	90,390	98,291
Mexico Lb.	—	(a)	(a)	—	1,457	(a)	(a)
IMPORTS—							
United Kingdom Lb.	168,004	142,932	150,350	137,791	197,873	191,656	178,520
Belgium-Lux. E. U. Lb.	(a)	(a)	(a)	(a)	(a)	—	33,069
Czechoslovakia .. Lb.	4,850	12,346	2,205	(a)	(a)	(a)	(a)
Portugal Lb.	2,020	(a)	(a)	(a)	—	(a)	(a)
Sweden Lb.	2,017	1,105	1,241	2,513	—	—	534
United States .. Lb.	475,881	529,175	267,118	171,581	363,312	246,552	123,135
Brazil Lb.	5,723	5,384	9,270	7,496	(a)	(a)	2,575
Peru (d) Lb.	617	187	18	—	231	2	—
TELLURIUM							
PRODUCTION—							
Canada Lb.	15,848	9,194	11,425	11,692	10,075	8,913	13,700
United States .. Lb.	3,765	45,248	48,806	109,021	59,713	160,933	189,076
VERMICULITE							
PRODUCTION—							
Kenya Ton	—	(4 cut.)	—	5	4	3	—
Southern Rhodesia Ton	—	—	16	947	700	494	—
Tanganyika .. Ton	50	—	—	—	—	—	—
Union of South Africa Ton	4,942	14,085	12,329	20,861	41,753	24,120	32,641
Australia .. Ton	204	82	151	162	120	55	62
India Ton	—	—	—	—	52	232	22
United States (sales) Ton	77,134	117,308	123,781	150,731	185,800	185,700	187,500
EXPORTS—							
Union of South Africa Ton	1,551	7,921	7,636	10,342	26,183	19,069	27,138
Southern Rhodesia Ton	—	—	—	206	374	234	28
IMPORTS—							
Canada £	3,402	32,256	31,970	52,408	86,368	103,505	117,340
Mexico Ton	(a)	60	124	158	99	126	797

(a) Information not available.

(b) Recovered from electrolytic copper refinery slimes accumulated during the war years.

(c) January to October only.

(d) Including salts.

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