

IMPERIAL INSTITUTE

THE MINERAL INDUSTRY
of the British Commonwealth
and Foreign Countries

STATISTICAL SUMMARY

(PRODUCTION, IMPORTS AND EXPORTS)

1941-1947



LONDON: HIS MAJESTY'S STATIONERY OFFICE

1949

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This publication was prepared by the Statistical Section of the Imperial Institute in co-operation with the Mineral Resources Department.

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In future all communications should be addressed to:—

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CONTENTS

	PAGE		PAGE
Introductory Note	iv	Manganese	172
Abrasives	1	Mercury (<i>see</i> Quicksilver).	
Aluminium	10	Mica	178
Antimony	20	Molybdenum	181
Arsenic	25	Monazite	184
Asbestos	29	Nickel	187
Barium Minerals	36	Nitrogen Compounds	192
Bauxite (<i>see</i> Aluminium).		Petroleum and Allied Products ..	203
Bismuth	41	Phosphates	239
Borates	44	Platinum	248
Bromine	48	Potash Minerals	254
Cadmium	50	Pyrites (<i>see also</i> Sulphur) ..	263
China Clay	52	Quicksilver	267
Chrome Ore and Chromium ..	55	Radium (<i>see</i> Uranium Minerals).	
Coal, Coke and By-Products ..	60	Salt	272
Cobalt	86	Selenium	329
Columbite	296	Silver	280
Copper	89	Strontium Minerals	286
Diamonds	101	Sulphur (<i>see also</i> Pyrites) ..	288
Diatomaceous Earth	107	Talc	293
Felspar	110	Tantalite	296
Ferro-alloys	137	Tellurium	329
Fluorspar	112	Tin	298
Fuller's Earth	114	Titanium Minerals	305
Gold	115	Tungsten	308
Graphite	122	Uranium Minerals	314
Gypsum	126	Vanadium	316
Iron and Steel	131	Vermiculite	330
Lead	154	Zinc	318
Lithium Minerals	330	Zirconium Minerals	329
Magnesite	165	List of Statistical Publications ..	331

INTRODUCTORY NOTE

Before the war the Statistical Summary was published annually covering statistics of mineral production and trade for the previous three years. Publication of this work was inevitably withheld during the war period, but was resumed in 1948 when it was decided to cover the 7-year period 1938 to 1944. The present volume retains this format and covers the years 1941 to 1947.

It has not been possible to give complete information for some countries, including those of eastern Europe, but in order that world totals may be arrived at, estimates for such countries have been attempted.

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.

Except where otherwise stated the trade figures are intended to represent imports for home consumption and exports of domestic produce. In some cases, however, a certain amount of "nationalised" goods is included, 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.

Statistics for India relate to the sea-borne trade only, except where otherwise stated. With effect from the 1st and 15th August, 1947, respectively, the direct foreign trade of the Pakistan provinces of Sind and East Bengal is excluded, as also is the sea-borne trade of India with Pakistan. Separate trade statistics are not yet available for Pakistan.

Trade statistics for Malaya relate to the Colony of Singapore (excluding Christmas Island and the Cocos Islands) and the Federation of Malaya. Trade between the two colonies is not included. Production statistics relate to the Federation of Malaya only.

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.

STATISTICAL SUMMARY OF THE MINERAL INDUSTRY
OF THE BRITISH COMMONWEALTH AND FOREIGN
COUNTRIES 1941-47

ERRATA

Page IV INTRODUCTION NOTE

Delete " (excluding Christmas Island and the Cocos Islands)" in penultimate paragraph.

Page 60 SOUTHERN RHODESIA

In 1947 column 1,587,243 should read 1,484, 163.

Total.

In 1947 column 288,472,000 should read 288,369,000.

Page 131 SIERRA LEONE

Add footnote (h) against figures for 1945 to 1947 which should read " Shipments of marketable ore only. Washed fines are excluded."

Page 203 TRINIDAD

1941	..	..	For	2,929,426	read	2,913,300
1942	..	..	"	3,152,740	"	3,137,400
1943	..	..	"	3,055,034	"	3,040,900
1944	..	..	"	3,090,709	"	3,077,600
1945	..	..	"	3,013,229	"	3,000,000
1946	..	..	"	2,890,377	"	2,877,400
1947	..	..	"	2,931,508	"	2,919,000

Page 221 GOLD COAST

Motor spirit

1944	..	..	For	45,918	read	44,536
1945	..	..	"	29,061	"	34,053
1946	..	..	"	18,260	"	23,365
1947	..	..	"	(e) 34,480	"	29,778

Kerosene

1944	..	..	For	5,657	read	6,788
1945	..	..	"	4,575	"	7,853
1946	..	..	"	4,753	"	5,667
1947	..	..	"	(e) 16,619	"	13,946

Fuel oil

1944	..	..	For	29,193	read	55,444
1945	..	..	"	30,189	"	43,305
1946	..	..	"	36,587	"	56,534
1947	..	..	"	(e) 60,555	"	58,766

Lubricating oil

1944	..	..	For	1,204	read	1,256
1945	..	..	"	2,290	"	2,323
1946	..	..	"	2,501	"	2,473
1947	..	..	"	(e) 5,118	"	5,027

Motor spirit

1941	..	..	<i>For</i>	4,313	<i>read</i>	15,863
1942	..	..	"	16,100	"	57,507
1943	..	..	"	23,913	"	28,349
1944	..	..	"	21,359	"	32,300
1945	..	..	"	21,636	"	36,160
1946	..	..	"	9,866	"	29,315
1947	..	..	"	22,373	"	45,405

Kerosene

1941	..	..	<i>For</i>	1,717	<i>read</i>	6,339
1942	..	..	"	852	"	1,711
1943	..	..	"	3,169	"	8,730
1944	..	..	"	4,806	"	7,801
1945	..	..	"	7,393	"	12,548
1946	..	..	"	11,384	"	18,030
1947	..	..	"	6,180	"	10,007

Fuel oil

1941	..	..	<i>For</i>	702	<i>read</i>	6,050
1942	..	..	"	822	"	5,744
1943	..	..	"	2,342	"	3,393
1944	..	..	"	1,058	"	8,618
1945	..	..	"	2,333	"	3,748
1946	..	..	"	3,617	"	10,782
1947	..	..	"	(b) 5,350	"	13,562

Lubricating oil

1941	..	..	<i>For</i>	623	<i>read</i>	1,540
1942	..	..	"	2,963	"	2,870
1943	..	..	"	787	"	1,378
1944	..	..	"	1,987	"	2,507
1945	..	..	"	868	"	1,015
1946	..	..	"	1,363	"	2,037
1947	..	..	"	4,113	"	4,763

SPAIN

1945	..	..	<i>For</i>	(a)	<i>read</i>	115,483
1946	..	..	"	(a)	"	122,923
1947	..	..	"	(a)	"	158,733

Total (d)

1945	..	..	<i>For</i>	1,600,000	<i>read</i>	2,100,000
1946	..	..	"	1,950,000	"	2,500,000
1947	..	..	"	2,150,000	"	2,900,000

World's Total (d)

1945	..	..	<i>For</i>	1,650,000	<i>read</i>	2,150,000
1946	..	..	"	2,000,000	"	2,600,000
1947	..	..	"	2,210,000	"	2,960,000

Other platinum metals

1947	<i>For</i>	23,218	<i>read</i>	110,332
------	----	----	------------	--------	-------------	---------

ABRASIVES*

PRODUCTION OF NATURAL ABRASIVES

(Long tons)

Producing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Nyasaland—							
Corundum	—	81	177	245	323	379	—
Southern Rhodesia—							
Corundum	31	73	43	—	—	12	—
Swaziland—							
Corundum	—	14	—	—	—	—	—
Tanganyika Territory—							
Corundum	—	—	6	—	—	—	—
Union of South Africa—							
Corundum	6,022	6,617	4,203	3,480	4,310	1,828	2,277
Garnet	179	707	512	319	(a)	(a)	(a)
Canada—							
Corundum (Shipments)	—	—	—	154	1,176	662	—
Grindstones	152	179	145	201	201	263	299
Sharpening stones ..	16	14	2	—	—	—	—
India—							
Corundum	55	133	108	343	403	95	(a)
Garnet sand	—	—	—	23	12	(a)	(a)
Australia—							
Emery	—	13	—	—	—	—	—
New Zealand—							
Pumice (b)	3,160	3,085	3,422	2,931	2,183	3,409	3,389
FOREIGN COUNTRIES							
Belgium—							
Grindstones	(a)	(a)	(a)	(a)	(a)	142	(a)
France—							
Pumice	(a)	(a)	340	220	4,921	6,889	11,220
Millstones	(a)	3,169	530	1,183	2,256	7,510	(a)
Sharpening stones ..	(a)	207	265	150	2,533	1,673	(a)
Greece—							
Emery	} (a)	(a)	(a)	(a)	(a)	(a)	(a)
Pumice							
Italy—							
Pumice	41,428	} (a)	(a)	(a)	(a)	(a)	(a)
Millstones	194						
Sharpening stones ..	1,382						
Whetstones	384						
Norway (exports)—							
Millstones, grindstones, etc.	334	499	510	463	430	983	(a)
Portugal—							
Tripoli	2,869	972	477	159	978	596	1,576
Spain—							
Tripoli	2,591	1,770	890	790	3,840	14,080	(a)
Sweden—							
Millstones, etc.	6	10	111	94	62	—	} 2,401
Grindstones and whet- stones	1,383	2,073	2,057	1,127	2,059	2,714	
Yugoslavia—							
Millstones	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Egypt—							
Pumice	197	250	290	635	935	1,220	2,490
Garnet	—	—	—	—	—	11	—

* See also Aluminium, Diamonds and Diatomaceous earth.

(a) Information not available.

(b) From quarries controlled under the Stone Quarries Act.

PRODUCTION OF NATURAL ABRASIVES (Cont.)

Producing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
French Equatorial Africa—							
Corundum	—	—	—	—	140	45	2
Madagascar—							
Corundum	—	—	14	69	49	21	1
Mozambique—							
Corundum	—	—	820	1,091	150	—	—
United States (Sales)—							
Emerald	4,354	4,712	5,952	6,196	7,014	5,507	5,177
Garnet	4,912	3,890	5,299	(a)	5,630	6,913	7,788
Pumice	104,741	112,966	76,027	79,247	140,188	285,610	395,136
Tripoli	26,162	15,657	13,314	16,451	16,292	25,853	30,873
Grindstones	12,119	11,396	9,582	8,369	8,958	10,362	9,482
Pulpstones	1,753	1,713	1,688	(a)	(a)	64	68
Oilstones, whetstones, etc.	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Argentina—							
Pumice	(a)	3,816	11,165	(a)	(a)	(a)	(a)
Turkey—							
Emerald	837	10,156	2,669	98	2,134	8,318	11,903
Millstones (number) ..	4,652	921	—	—	—	—	—

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

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

	1941	1942	1943	1944	1945	1946	1947
Silicon carbide ..	28,802	39,652	45,787	42,053	40,553	44,601	46,164
Fused alumina ..	116,858	143,692	170,292	148,302	118,921	106,449	130,744

Artificial abrasives sold, shipped, or used, from plants in United States and Canada. Metallic abrasives shipments from United States plants only (long tons):—

	1941	1942	1943	1944	1945	1946	1947
Silicon carbide, etc. ..	40,145	55,072	62,237	50,260	48,013	57,008	56,897
Aluminium oxide ..	131,928	163,958	194,129	165,690	131,264	117,932	142,877
Metallic abrasives ..	77,062	95,038	111,566	129,054	131,046	99,564	137,671

(a) Information not available.

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

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Abrasives, natural and artificial	374	230	140	470	85	320	740
Grinding wheels of—							
Artificial corundum, etc.	506	262	203	272	479	606	557
Carborundum	264	246	174	351	250	571	536
Emery	36	40	24	12	31	101	457
Other hard abrasives ..	329	394	429	563	537	832	1,203
Grindstones	1,377	1,069	830	752	1,085	2,848	} (b) 3,401
Whetstones	146	81	82	43	52	674	
Other manufactured abrasives—							
Natural	1,205	684	610	819	1,093	2,870	} 2,770
Artificial	369	263	183	221	536	1,032	
Nyasaland—							
Corundum	—	—	—	—	355	412	168
Tanganyika Territory—							
Corundum	—	—	6	—	—	—	—
Union of South Africa—							
Corundum	6,154	6,433	4,629	3,593	4,144	1,737	2,277
Canada—							
Natural abrasives, including diatomaceous earth	6	5	9	5	11	5	54
Artificial abrasives ..	147,422	185,657	215,636	192,052	158,966	155,719	175,715
Artificial abrasive wheels, etc.	(£7,178)	(£17,053)	(£103,183)	(£53,709)	(£34,586)	(£20,210)	(£73,753)
Grindstones	(£4,624)	(£1,013)	(£1,131)	(£47)	(£4,386)	(£8,303)	(£6,175)
Cyprus—							
Pumice	(a)	(a)	(a)	—	102	—	—
Hong Kong (including re-exports)—							
Emery, etc.	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Palestine—							
Millstones	(£169)	(£98)	(£3,650)	(£7,540)	(£5,149)	(£4,568)	(a)
Australia—							
Pumice (£ Aust.) ..	(£5)	—	(£413)	—	—	—	—
Corundum, emery, etc. (£ Aust.)	(£2,554)	(£2,252)	(£1,804)	(£4,241)	(£4,151)	(£15,734)	(£20,359)
New Zealand—							
Pumice	3,105	3,093	3,412	2,345	2,185	2,545	2,410
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Millstones and grindstones, natural ..	26	94	235	1,057	(a)	(a)	(a)
Millstones and grindstones, artificial ..	197	262	282	155	(a)	(a)	(a)
Other abrasives	281	378	230	1	(a)	(a)	(a)
Bulgaria—							
Millstones, grindstones, etc.	18	115	232	149	(a)	(a)	(a)
Czecho-Slovakia—							
Emery and pumice ..	} (a)	(a)	(a)	(a)	(a)	1	2
Carborundum						2	16
Grindstones, etc., natural do. carborundum ..						15	12
do. emery, etc. ..						227	890
Other abrasives ..						22	6
						—	1

* 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	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Denmark—							
Emery	—	—	—	—	1	5	(a)
Millstones and grindstones, natural ..					1	3	(a)
do. artificial ..	27	12	12	2	1	142	(a)
Finland—							
Grindstones, etc. ..	75	123	176	85	25	113	242
France—							
Corundum and emery ..	626	353	149	3	12	37	228
Pumice	(a)	(a)	—	4	4	162	352
Tripoli	—	—	—	—	—	52	17
Millstones and grindstones	814	1,577	1,003	194	374	1,656	2,239
Whetstones	37	19	1	7	—	108	164
Artificial abrasives ..	2,131	4,081	7,114	3,641	1,010	4,348	1,737
Germany—							
Emery	442	508	418	(b) 174	} (a)	(a)	(a)
Carborundum, etc. ..	3,056	5,009	3,729	(b) 1,609			
Millstones, grindstones, etc.	6,870	9,151	10,815	(b) 4,259			
Other abrasives	3,584	3,384	3,672	(b) 1,308			
Greece—							
Emery	} (a)	(a)	(a)	(a)	{ (a)	4,084	(a)
Pumice .. .. .								(a)
Italy—							
Pumice	7,573	10,272	(a)	(a)	(a)	(a)	17,868
Artificial abrasives ..	(a)	(a)	(a)	(a)	(a)	(a)	5
Netherlands—							
Emery	377	36	18	(a)	(a)	1,096	1,710
Norway—							
Emery, etc.	2	14	10	20	9	12	(a)
Millstones, grindstones, etc.	334	499	510	463	430	983	(a)
Other artificial abrasives	78	62	72	42	42	154	(a)
Sweden—							
Emery	—	—	—	—	17	—	2
Other natural abrasives ..	21	1	—	—	40	7	3
Carborundum, etc. ..	118	170	8	—	39	158	393
Millstones, grindstones, etc.	998	490	418	347	677	1,009	1,304
Switzerland—							
Carborundum, emery, etc., crude	39	71	49	6	39	—	35
do. do. ground	467	221	216	32	296	768	1,244
Grindstones	4	6	—	—	—	16	34
Millstones	—	—	—	—	—	2	7
Egypt—							
Emery, pumice, etc. ..	87	—	24	119	—	—	(a)
Madagascar—							
Corundum	—	—	—	—	—	—	2
Mozambique—							
Corundum	—	—	—	1,088	265	55	(a)
Costa Rica—							
Millstones	83	55	250	9	52	75	(a)
Mexico—							
Pumice	—	34	29	26	—	18	(a)
Emery, etc.	—	—	1	—	—	3	(a)
Millstones, whetstones, etc.	1	1	1	1	8	8	(a)

(a) Information not available.

(b) January to July only.

EXPORTS OF ABRASIVES (Cont.)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
United States—							
Emery powder	(a)	405	322	332	146	(a)	244
Wheels of emery and corundum	162	2,851	1,035	258	111	193	201
Grindstones	2,494	2,810	2,106	1,515	2,098	2,739	2,050
Other natural abrasives..	17,857	12,603	15,208	20,310	(a)	(a)	31,245
Crude artificial abrasives	25,028	30,360	29,753	31,785	32,223	25,676	25,375
Artificial abrasive wheels	1,948	4,500	6,025	5,798	7,684	4,153	4,550
Artificial hones, whetstones, etc.	2,645	1,087	452	301	463	807	7,491
Turkey—							
Emery and carborundum	(a)	(a)	(a)	55	4,999	10,179	11,218

(a) Information not available.

IMPORTS OF ABRASIVES *

(Less Re-exports)

(Long tons)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Emery	4,371	1,259	10,090	1,520	4,311	5,364	6,781
Artificial corundum ..	11,833	18,393	19,458	14,223	3,500	11,616	18,794
Carborundum, unground	464	169	71	71	123	302	400
do. ground ..	4,746	6,836	6,688	4,579	4,814	6,400	9,191
Other hard abrasives ..	1,546	1,579	1,611	571	612	3,162	2,932
Grinding wheels of—							
Artificial corundum,							
etc.	5	1,400	1,495	225	29	2	27
Carborundum	1	1,157	145	12	1	1	—
Emery	2	792	32	25	8	1	—
Other hard abrasives	1	539	13	52	34	5	48
Grindstones and whet-							
stones	2	1	42	4	2	6	5
Other manufactured							
abrasives—							
Natural	317	93	763	263	1,062	1,738	} 6,859
Artificial	6,512	8,354	4,902	3,625	1,523	3,110	
Eire—							
Grindstones, oilstones,							
etc.	137	153	156	112	151	144	157
Anglo-Egyptian Sudan—							
Grindstones	(a)	(a)	22	19	13	24	18
Kenya and Uganda—							
Grindstones	3	4	3	2	1	14	—
Seychelles—							
Grindstones	2	—	—	—	1	4	5
Tanganyika Territory—							
Grindstones, whetstones,							
etc.	1	3	5	12	107	6	9
Union of South Africa							
(total imports)—							
Emery	12	12	9	20	38	39	} (a)
Pumice	107	133	137	13	71	101	
Other abrasives (£S.A.)	(£3,449)	(£3,652)	(£2,111)	(£6,725)	(£12,205)	(£10,204)	
Emery and other wheels							
(£ S.A.)	(£86,543)	(£52,823)	(£81,487)	(£136,819)	(£127,601)	(£127,601)	
Grindstones, millstones,							
etc. (£ S.A.)	(£2,683)	(£2,163)	(£1,507)	(£4,214)	(£9,496)	(£9,911)	
Canada—							
Pumice, etc.	(£9,193)	(£6,499)	(£4,377)	(£6,265)	(£10,122)	(£16,888)	(£15,400)
Emery, ground	(£19,398)	(£17,811)	(£17,596)	(£16,543)	(£18,164)	(£26,894)	(£30,685)
Artificial abrasives, ground	(£352,175)	(£426,628)	(£430,498)	(£414,236)	(£363,061)	(£373,150)	(£396,638)
Buhrstones	(£113)	(£617)	(£102)	(£239)	(£175)	(£26)	(£400)
Emery and artificial abra-							
sives manufactures ..	(£16,843)	(£22,583)	(£18,423)	(£16,543)	(£18,164)	(£24,126)	(£25,619)
Grindstones and wheels	(£126,110)	(£170,999)	(£151,866)	(£117,036)	(£107,243)	(£128,480)	(£159,307)
Newfoundland (b)—							
Grindstones	(£1,757)	(c) (£1,031)	(£1,590)	(£1,486)	(£10,898)	(£16,992)	(£12,514)
Whetstones, etc. ..	(a)	(a)	(a)	(£893)	(£913)	(£1,165)	(£934)
British West Indies—							
Jamaica—							
Grindstones and mill-							
stones	(£267)	(£266)	(£145)	(£796)	(d) (£650)	(d) (£445)	(d) (£1,145)
Trinidad and Tobago—							
Grindstones and wheels	12	33	25	12	16	(e) 207	(a)

* See also Aluminium, Diamonds and Diatomaceous earth.

(a) Information not available.

(b) Years ended June 30 following that stated for 1941 and ended March 31 subsequently.

(c) Nine months ended March 31, 1943.

(d) Grindstones only.

(e) Excess of re-exports.

IMPORTS OF ABRASIVES (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES (Cont.)							
Ceylon—							
Grindstones	(£1,556)	(£1,382)	(£1,155)	(£175)	(£343)	(£1,675)	(£1,328)
Cyprus—							
Grindstones and millstones	—	(a)	(a)	(£11)	(£338)	(£9,236)	(£4,342)
Hong Kong (total imports)—							
Emery, etc.	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Palestine—							
Millstones	(£87)	(£584)	(£1,520)	(£1,238)	(£743)	(£7,353)	(a)
Australia (£ Aust.)—							
Corundum, emery, etc. . .	(£270,028)	(£383,814)	(£309,930)	(£170,541)	(£177,249)	(£151,076)	(£250,977)
Pumice	(£10,527)	(£10,766)	(£11,257)	(£10,200)	(£8,165)	(£13,416)	(£7,738)
New Zealand—							
Pumice	2	1	—	1	—	—	2
Grindstones, etc. (£N.Z.)	(£8,316)	(£7,792)	(£11,171)	(£8,954)	(£13,492)	(£20,921)	(£26,423)
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Millstones and grindstones, natural ..	595	433	405	76	} (a)	(a)	(a)
do. artificial ..	363	286	245	195			
Other abrasives ..	1,766	1,593	1,253	210			
Bulgaria—							
Emery, etc.	87	216	216	76	(a)	(a)	(a)
Millstones, grindstones, etc.	131	85	103	24	(a)	(a)	(a)
Czecho-Slovakia—							
Emery	} (a)	(a)	(a)	(a)	(a)	10	—
Pumice						—	20
Carborundum						335	1,162
Grindstones, etc., natural do. carborundum						25	202
do. emery, etc. . .						—	1
Other abrasives ..	1	17					
Denmark—							
Emery, etc.	220	264	240	162	7	332	} (a)
Pumice	172	398	86	24	—	258	
Carborundum	238	145	74	70	81	212	
Millstones and grindstones, natural ..	461	420	342	261	261	654	
do. artificial ..	158	131	156	127	124	440	
Finland (total imports)—							
Emery, pumice, etc. . .	260	310	423	87	59	347	579
Carborundum, etc. ..	65	50	76	8	45	60	139
Millstones, etc. . .	5	16	17	—	—	1	1
Whetstones, grindstones, etc.	940	665	1,365	866	191	634	1,015
France—							
Corundum and emery ..	—	1	10	—	576	2,072	3,232
Pumice	408	202	194	—	—	2,046	4,978
Tripoli	(a)	(a)	(a)	(a)	(a)	(a)	550
Millstones and grindstones	149	226	227	1	42	75	358
Whetstones	2	31	16	18	—	38	104
Carborundum	282	362	231	110	484	1,817	2,185
Other artificial abrasives	—	131	1	(a)	1,211	1,502	2,233

(a) Information not available.

IMPORTS OF ABRASIVES (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Germany—							
Emery	217	281	2,884	(b) 208	} (a)	(a)	(a)
Carborundum, etc. ..	2,713	2,877	4,913	(b) 1,074			
Millstones, grindstones, etc.	981	1,148	1,592	(b) 1,974			
Other abrasives	704	2,799	2,863	(b) 6,131			
Iceland—							
Millstones, etc.	117	42	55	7	37	16	(a)
Italy—							
Artificial abrasives ..	(a)	(a)	(a)	(a)	(a)	(a)	893
Netherlands—							
Emery	20	47	1	(a)	(a)	2,273	2,602
Norway—							
Emery, etc.	258	192	170	131	248	399	385
Millstones, grindstones, etc.	362	425	474	306	518	912	(a)
Other artificial abrasives	26	17	11	6	2	35	(a)
Portugal—							
Emery, etc.	88	62	160	22	182	177	347
Millstones	2,642	—	97	—	40	114	186
Roumania—							
Emery, etc.	} (a)	(a)	(a)	(a)	(a)	(a)	(a)
Millstones							
Grindstones							
Spain—							
Emery powder	59	434	324	26	162	72	53
Carborundum	34	20	101	47	290	49	123
Sweden—							
Emery	270	213	236	65	390	769	403
Pumice	} 697	{ 224	816	—	56	651	97
Other natural abrasives..							
Carborundum, etc.							
Grindstones, etc.							
Millstones							
Emery, etc.	99	166	135	122	73	713	2,556
Carborundum, etc.	816	598	785	442	329	1,138	1,081
Grindstones, etc.	101	143	245	223	345	619	1,385
Millstones							—
Switzerland—							
Emery, crude	393	197	93	51	334	989	904
Carborundum, emery, etc., ground	567	358	387	120	430	782	1,201
Millstones	83	54	53	49	12	10	31
Grindstones	618	480	532	143	66	432	593
Whetstones	43	27	32	10	4	1	16
Algeria—							
Emery, corundum, etc. ..	16	7	—	2	3	5	50
Pumice	—	3	—	—	3	157	189
Millstones and grindstones	212	321	8	26	236	363	386
Egypt—							
Emery, pumice, etc.	31	76	4	—	17	(c) 844	} (a)
Millstones	18	—	1	1	—	—	
Grindstones	47	65	33	50	214	135	
Whetstones	—	12	5	1	8	6	
Morocco (French)—							
Millstones and grindstones	88	128	11	9	96	284	139
Tunis—							
Emery and pumice	60	31	1	16	33	169	55
Millstones and grindstones	23	19	—	—	9	19	13
Cuba (total imports)—							
Grindstones	935	1,167	1,100	553	964	(a)	(a)

(a) Information not available.

(b) January to July only.

(c) Total imports.

IMPORTS OF ABRASIVES (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Mexico—							
Emery and carborundum	1,046	1,298	1,794	1,581	1,254	1,038	(a)
Pumice	2	10	2	4	5	6	(a)
Millstones and grindstones	254	224	283	481	299	337	(a)
United States—							
Corundum, crude	5,237	4,231	5,077	5,716	5,575	3,756	2,144
Emery, crude	—	(a)	(a)	(a)	(a)	(a)	2,772
Corundum and emery, ground	46	56	209	32	(a)	(a)	51
Pumice, crude	39	60	29	36	(a)	(a)	6,973
do. manufactured	—	(a)	5	3	(a)	(a)	710
Tripoli, etc.	385	206	5	3	(a)	(a)	74
Grindstones	456	438	262	320	(a)	(a)	224
Buhrstones, hones, etc. . . .	31	45	17	25	(a)	(a)	42
Crude artificial abrasives	129,009	161,129	188,219	171,654	147,904	138,578	150,812
Argentina—							
Emery	571	828	318	349	872	1,805	(a)
Pumice	7	16	2	2	—	8	(a)
Grindstones	192	164	212	41	214	239	(a)
Oil stones	3	1	2	3	—	16	(a)
Brazil—							
Millstones, grindstones, etc.	313	264	193	623	659	721	(a)
Other abrasives	78	109	76	343	246	395	(a)
Chile—							
Emery	43	39	36	83	57	25	(a)
Pumice	2	2	—	4	3	—	(a)
Tripoli	10	—	3	1	4	29	(a)
Other abrasives	39	37	35	5	98	56	(a)
Colombia—							
Emery and pumice	40	38	48	(a)	(a)	82	(a)
Millstones and grindstones	33	3	44	(a)	(a)	20	(a)
Peru—							
Emery and pumice	25	21	11	35	30	34	(a)
Grindstones	25	28	35	60	70	52	(a)
Venezuela—							
Emery and pumice	60	54	94	(a)	(a)	(a)	(a)
Iraq—							
Emery, pumice, etc.	5	31	18	2	(a)	(a)	(a)
Grindstones, whetstones, etc.	1	60	86	56	(a)	(a)	(a)
Syria and Lebanon—							
Emery	—	8	20	—	50	101	(a)
Millstones and grindstones	—	12	30	19	150	186	(a)
Turkey—							
Emery and carborundum, crude	(a)	(a)	(a)	—	1	9	9
Millstones and grindstones	(a)	(a)	(a)	166	204	170	214
Grinding powder	(a)	(a)	(a)	—	10	45	33

(a) Information not available.

ALUMINIUM

(Including Bauxite and Cryolite)

PRODUCTION OF BAUXITE

(Long tons)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Northern Ireland	12,883	95,724	107,924	43,799	36,397	—	—
Gold Coast (e)	2,013	48,005	104,819	107,223	146,330	114,246	95,898
British Guiana—(c)							
60% or more alumina ..	1,094,836	1,159,589	1,941,813	913,516	669,164	1,115,966	1,358,929
India	12,962	18,258	24,160	12,135	13,893	9,948	(a)
Malaya	50,824	(g) 100,000	(g) 100,000	(g) 100,000	(g) 100,000	—	—
Australia	5,378	3,432	2,548	3,806	3,437	3,729	4,878
TOTAL	1,179,000	1,430,000	2,285,000	1,180,000	969,000	1,244,000	1,470,000
FOREIGN COUNTRIES							
Austria	(a)	(a)	(a)	19,530	(a)	—	—
France	578,143	629,460	901,878	655,117	303,261	464,442	668,500
Germany	12,700	16,000	25,000	25,000	(a)	(a)	(a)
Greece	50,000	50,000	50,000	10,000	—	—	(a)
Hungary	810,409	972,934	985,555	746,323	34,843	99,169	279,100
Italy	534,307	485,474	281,000	40,000	25,000	64,413	165,070
Roumania	9,600	14,700	12,400	(a)	(a)	(a)	(a)
Spain	1,380	2,170	23,500	2,850	5,020	4,820	(a)
U.S.S.R. (estimated) ..	(b) 250,000	(b) 275,000	(b) 350,000	(b) 400,000	(b) 400,000	450,000	450,000
Yugoslavia	227,700	236,000	200,000	150,300	(a)	(a)	(a)
Mozambique	1,330	1,831	3,220	6,080	4,305	1,596	2,913
United States (d)	937,050	2,602,034	6,232,883	2,823,724	981,009	1,072,825	1,215,308
Brazil (exports)	14,138	12,201	75,549	2,932	6,949	1,143	(a)
Dutch Guiana	1,237,209	1,170,466	1,636,505	916,756	753,503	1,004,080	1,711,670
French Indo-China	10,000	12,600	—	350	—	—	—
Netherland East Indies ..	169,108	(g) 341,000	(g) 341,000	(g) 341,000	(g) 341,000	100,000	—
TOTAL (f)	4,850,000	6,820,000	11,100,000	6,250,000	2,950,000	3,400,000	4,700,000
WORLD'S TOTAL (f)	6,030,000	8,250,000	13,400,000	7,430,000	3,920,000	4,650,000	6,170,000

(a) Information not available.

(b) U.S. Bureau of Mines.

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

	1941	1942	1943	1944	1945	1946	1947
Metallurgical ..	1,007,642	1,174,173	1,891,369	847,967	690,675	1,047,220	1,210,016
Chemical ..	23,368	12,238	—	19,635	33,176	37,597	24,572
Refractory ..	2,298	2,181	1,710	2,770	1,333	2,635	2,793
Abrasive ..	10,911	10,304	7,901	6,755	12,229	33,893	51,632

(d) Dried bauxite equivalent.

(e) Exports.

(f) Estimated.

(g) Average annual production during Japanese occupation.

PRODUCTION (EXPORTS) OF CRYOLITE IN GREENLAND

Year	Long tons
1941	57,690
1942	83,490
1943	45,720
1944	15,221
1945	18,403
1946	30,660
1947	39,910

PRODUCTION OF ALUMINIUM

(Long tons)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom (d) ..	22,700	46,800	55,700	35,500	31,900	31,500	28,940
Canada	190,958	304,104	442,634	412,558	192,600	173,319	267,023
India	—	—	1,272	1,723	2,254	3,244	(a)
TOTAL	213,700	350,900	499,700	449,800	226,800	208,100	300,000
FOREIGN COUNTRIES							
Austria	21,000	34,000	44,000	39,311	5,131	1,016	4,472
France	62,906	44,510	45,730	25,740	36,637	47,720	52,557
Germany	209,000	225,700	202,000	200,000	(a)	(a)	(a)
Hungary	(c) 3,500	(c) 4,700	(c) 7,000	(c) 11,300	(a)	(a)	(c) 5,072
Italy	47,434	44,712	45,500	16,600	4,300	10,461	24,668
Norway	17,251	20,174	23,143	19,719	4,535	16,428	21,382
Spain	1,102	730	784	203	531	968	957
Sweden	1,077	1,274	3,515	3,664	3,185	3,510	2,846
Switzerland ..	23,800	23,600	20,000	15,000	5,000	13,000	20,000
U.S.S.R.	(c) 50,000	(c) 54,000	61,360	(c) 70,000	(c) 84,947	(a)	(a)
Yugoslavia ..	2,000	2,000	2,000	1,000	(a)	(a)	(a)
United States (b) ..	275,953	465,273	821,588	693,255	442,018	365,741	510,491
Formosa	12,348	13,288	14,271	9,055	—	(a)	(a)
Japan	48,423	74,170	94,946	107,794	16,192	3,142	2,657
Korea	3,071	4,296	12,331	12,738	1,223	(a)	(a)
Manchuria	7,905	7,319	10,000	8,000	3,200	(a)	(a)
TOTAL	787,000	1,020,000	1,408,000	1,233,000	640,000	540,000	760,000
WORLD'S TOTAL	1,000,000	1,371,000	1,908,000	1,683,000	860,000	750,000	1,060,000

(a) Information not available.

(b) Secondary metal was recovered as follows :—

1941	.. .. .	95,408 long tons
1942	.. .. .	177,225
1943	.. .. .	280,322
1944	.. .. .	290,754
1945	.. .. .	266,417
1946	.. .. .	248,279
1947	.. .. .	307,890

(c) U.S. Bureau of Mines.

(d) Secondary metal was recovered as follows :—

1941	.. .. .	(a)
1942	.. .. .	78,800 long tons
1943	.. .. .	93,500
1944	.. .. .	104,500
1945	.. .. .	81,000
1946	.. .. .	74,900
1947	.. .. .	97,600

EXPORTS OF ALUMINIUM, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Alumina	117	331	249	107	901	8,926	6,473
Ingots, etc., including alloyed	10	1	7	25	3,292	5,231	6,005
Sheets, tubes, etc., including alloyed	126	177	115	72	3,030	17,465	22,353
Foil and alloyed	38	25	20	23	104	1,787	2,287
Scrap, including alloyed	7	—	—	—	258	8,286	505
Aluminium sulphates	23,068	16,729	16,426	19,623	20,415	34,298	26,171
Gold Coast—							
Bauxite	2,013	48,005	104,819	107,223	146,330	114,246	95,898
Southern Rhodesia—							
Ingots, blocks and rods	—	—	96	—	40	67	52
Canada—							
Blocks, bars, and ingots	172,105	280,789	335,164	263,595	341,327	167,264	190,818
Sheets, rods, etc.							
Scrap	1	2	90	2,790	1,688	2,186	3,481
Wire	(£160)	(£2,648)	(£468)	1,609	5,819	5,766	9,644
Jamaica—							
Bauxite	—	—	(£3,015)	—	(50 lbs.)	—	—
British Guiana—							
Bauxite	1,072,616	1,116,463	1,901,393	873,969	738,544	1,120,015	1,290,367
British India—							
Bauxite	1,000	700	—	800	470	1,040	(a)
Malaya (including re-exports)—							
Bauxite	(a)	(a)	(a)	(a)	(a)	—	—
Bars, sheets and strips							
Aluminium sulphates							
Hong Kong (including re-exports)—							
Aluminium sulphates	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Australia—							
Bauxite	(a)	(a)	(a)	(a)	(a)	145	111
Aluminium (£ Aust.)	(£3)	(£11)	(£18)	(£941)	—	(£19,227)	(£8,939)
Aluminium sulphates	732	—	101	88	234	385	281
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Bauxite, etc.	—	—	—	—	(a)	(a)	(a)
Alumina	21	—	9	—			
Aluminium hydrates	1	—	—	5			
Crude	45	38	154	73			
Scrap	764	231	889	570			
Sheets, wire, etc.	7	—	576	669			
Czecho-Slovakia—							
Crude and scrap	(a)	(a)	(a)	(a)	(a)	—	137
Bars, sheets, rods and wire	(a)	(a)	(a)	(a)	(a)	6	70
Denmark—							
Refined cryolite	2,565	1,431	1,372	343	96	8,490	12,503
Crude	4	9	6	3	15	52	71
Scrap	306	13					
Sheets, wire and foil	69	2	—	—	—	317	686
						3	1

(a) Information not available.

EXPORTS OF ALUMINIUM, ETC. (Cont.)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
France—							
Bauxite	170,965	228,095	443,977	288,589	1,038	47,741	83,109
Alumina	33,013	59,842	41,082	24,162	9,551	30,765	67,267
Aluminium hydrates ..	1,537	9,145	11,972	2,318	1,077	3,217	6,987
Cryolite, artificial ..	60	1,389	2,130	445	—	34	44
Ingots and scrap	22,242	6,832	14,361	1,228	492	1,719	1,286
Sheets, wire, etc. .. .	4,997	1,802	887	204	170	1,927	3,527
Aluminium sulphates ..	2,165	2,264	472	382	1,295	2,727	3,089
Germany—							
Bauxite and cryolite ..	23,362	322	21,641	(b) 7,091	} (a)	} (a)	} (a)
Crude, scrap and alloys..	15,107	17,730	12,668	(b) 3,549			
Sheets, wire, castings, etc.	6,705	9,877	9,810	(b) 3,666			
Foil	1,453	1,041	848	(b) 271			
Aluminium sulphates, etc. including refined bauxite	21,504	26,953	52,455	(b) 27,350			
Greece—							
Bauxite	(a)	(a)	(a)	(a)	—	—	(a)
Hungary—							
Bauxite	751,920	1,012,749	882,716	681,336	704	8,914	52,551
Italy—							
Bauxite	146,647	112,200	88,579	(a)	—	492	—
Alumina	29,034	33,069	16,436	(a)	—	5,315	10,629
Crude, scrap and alloyed	157	10	827	8,297	—	679	1,624
Netherlands—							
Crude, scrap and alloys..	568	1,019	1,498	(a)	(a)	198	1,219
Foil	2	—	—	(a)	(a)	3	10
Norway—							
Alumina	50	290	—	—	8	37	(a)
Ingots	16,246	17,400	20,905	17,224	2,796	9,469	16,337
Scrap	16	25	25	159	282	746	599
Bars, sheets, tubes and wire	285	181	491	764	81	556	(a)
Sweden—							
Crude, sheets and strips..	124	26	27	7	5	22	25
Scrap	11	19	18	34	84	98	158
Aluminium sulphates ..	8,165	8,277	4,061	2,590	6,359	11,473	8,140
Switzerland—							
Blocks, ingots, etc., and scrap	8,405	9,258	8,479	1,489	25	396	964
do. (alloys)	3,086	1,782	805	2,156	103	395	155
Bars, sheets, tubes and wire	769	297	641	479	157	3,038	4,632
do. (alloys)	4,312	4,272	1,670	1,672	37	610	1,381
Yugoslavia—							
Bauxite	(c) 76,000	(c) 178,000	(c) 124,000	(a)	(a)	(a)	(a)
Algeria—							
Ingots and scrap	22	24	—	1	4	—	—
Mozambique—							
Bauxite	(a)	(a)	(a)	1,240	9,666	1,032	(a)
Greenland—							
Cryolite	57,690	83,490	45,720	15,221	18,403	30,660	39,910
Haiti—							
Bauxite	(a)	(a)	(a)	(a)	—	300	—
United States—							
Bauxite, etc.	134,746	260,600	417,186	146,638	126,067	97,788	94,369
Cryolite, natural .. .	(a)	233	2,287	606	} 1,688	} 1,574	} 836
do. artificial	(a)	146	383	335			
Ingots, scrap and alloys..	720	15,952	50,674	119,198			
Plates, sheets, bars, etc...	5,942	18,672	54,360	49,124	3,242	13,917	44,852
Foil	244	115	514	1,449	1,167	1,620	4,339
Aluminium sulphates ..	45,769	39,668	33,880	36,994	33,904	33,890	20,883

(a) Information not available.

(b) January to July only.

(c) Imports into Germany from Yugoslavia.

EXPORTS OF ALUMINIUM, ETC. (Cont.)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Brazil—							
Bauxite	14,138	12,201	75,549	2,932	6,949	1,143	(a)
Dutch Guiana—							
Bauxite	1,076,490	1,208,125	1,629,006	615,920	679,050	839,146	1,769,433
China—							
Aluminium sulphates ..	(a)	(a)	(a)	(a)	(a)	1,544	1,123
Formosa—							
Crude (c)	12,349	12,301	14,269	9,056	(a)	(a)	(a)
French Indo-China—							
Bauxite (c)	3,164	15,695	2,411	—	—	(a)	(a)
Korea—							
Crude (c)	3,071	4,297	12,331	12,739	(a)	(a)	(a)
Manchuria—							
Crude (c)	1,575	1,968	2,953	4,139	(a)	(a)	(a)
Netherlands East Indies—							
Bauxite	(b) 160,062	(c) 292,998	(c) 639,298	(c) 270,267	(a)	—	88,166

(a) Information not available.

(b) January to October only.

(c) Imports into Japan from the country concerned.

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

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Bauxite	87,214	47,759	241,796	172,146	162,561	156,972	163,711
Cryolite	3,592	4,935	1,597	85	844	1,444	1,642
Alumina	59	35	—	2,973	(d) 1	101	5
Ingots, etc., including alloyed	132,657	131,649	213,014	149,692	21,148	80,646	95,860
Sheets, tubes, etc., including alloyed	4,628	4,389	23,247	27,272	(d) 5,310	(d) 611	112
Foil and alloyed	1	—	2,276	10,160	1,745	28	422
Scrap, including alloyed	382	50	100	153	3	23	1,943
Eire—							
Ingots, sheets and foil	3	—	1	—	284	731	1,412
Kenya and Uganda—							
Sheets and wire	—	—	—	—	10	115	655
Southern Rhodesia—							
Ingots, bars, sheets and foil	6	10	—	9	36	112	892
Tanganyika Territory—							
Sheets, strips and wire	—	—	—	—	2	3	542
Union of South Africa—							
Ingots, bars, sheets, wire and foil	136	52	28	44	308	1,277	(a)
Aluminium sulphates	1,107	397	101	78	68	703	(a)
Canada—							
Bauxite	1,028,768	1,168,346	2,688,008	1,185,737	839,029	1,145,693	1,243,476
Cryolite	8,300	22,652	20,023	2,249	3,556	2,532	6,481
Alumina	117	70	79	109	285	162	165
Ingots, rods, sheets, scrap, etc.	348	1,289	2,025	3,228	1,316	4,670	4,377
Leaf and foil	(£4,032)	(£686)	(£686)	(£10,752)	(£15,604)	(£23,080)	(£126,725)
Aluminium sulphates	35,107	37,315	34,307	31,597	31,607	24,752	4,664
Newfoundland (b)—							
Sheets, plates, foil, etc.	(£1,728)	(c) (£730)	(£2,272)	35	4	8	28
Aluminium sulphates	(a)	(a)	(a)	957	982	1,098	227
Aden—							
Aluminium sulphates	—	—	—	—	4	9	11
British India—							
Ingots, blocks, bars, etc.	63	13	—	245	3,014	7,345	(f) 2,918
Sheets and circles	55	72	1	—	1,799	2,685	(f) 5,697
Aluminium sulphates	753	1,099	1,652	5,325	1,710	857	(f) 2,706
Malaya (total imports)—							
Bars, sheets and strips	(a)	(a)	(a)	(a)	(a)	245	1,286
Aluminium sulphates	(a)	(a)	(a)	(a)	(a)	2,062	1,334
Burma—							
Sheets and circles	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Aluminium sulphates	(a)	(a)	(a)	(a)	(a)	(e) 42	(a)
Ceylon—							
Foil	82	—	—	—	—	336	472
Hong Kong (total imports)—							
Aluminium sulphates	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Palestine—							
Ingots and sheets	—	—	—	—	13	312	(a)
Foil	3	1	—	—	4	84	(a)

(a) Information not available.

(b) Years ended June 30 following that stated for 1941 and March 31 subsequently.

(c) Nine months ended March 31, 1943.

(d) Excess of re-exports.

(e) February to September only.

(f) January to November only.

IMPORTS OF ALUMINIUM, ETC. (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES (Cont.)							
Australia—							
Cryolite	106	10	12	11	29	26	74
Pigs, ingots, blocks and scrap	1,135	4,792	3,648	4,480	7	1,811	4,219
Sheets, wire, rods, etc. . .	1,107	1,877	5,131	1,006	96	156	308
Pipes and tubes (£ Aust.)	(£13,233)	(£55,288)	(£22,402)	(£46,564)	(£63,970)	(£201,389)	(£235,878)
Aluminium sulphates ..	28	1	1	22	—	28	(b) 21
New Zealand—							
Bars, sheets, tubes, wire, etc.	23	26	44	9	50	135	534
FOREIGN COUNTRIES							
Austria—							
Bauxite	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Cryolite							
Alumina							
Aluminium hydrates ..							
Crude, scrap and alloys. . .							
Sheets, rods, wire, etc. . .							
Foil							
Belgium-Luxemburg E.U.—							
Bauxite, etc.	524	703	548	319	(a)	(a)	(a)
Alumina	13	81	21	70			
Aluminium hydrates ..	571	578	368	298			
Crude	748	3,335	1,442	1,052			
Scrap							
Sheets, wire, etc. ..	110	178	1,111	86			
Aluminium sulphates ..	2,527	1,451	302	76			
Bulgaria—							
Crude, bars and sheets ..	285	319	24	3	(a)	(a)	(a)
Aluminium sulphates ..	599	960	1,244	76	(a)	(a)	(a)
Czecho-Slovakia—							
Bauxite	(a)	(a)	(a)	(a)	(a)	1,353	2,353
Cryolite	(a)	(a)	(a)	(a)	(a)	256	449
Crude and scrap	(a)	(a)	(a)	(a)	(a)	973	7,446
Aluminium sulphates ..	(a)	(a)	(a)	(a)	(a)	(c) 107	(c) 325
Denmark—							
Crude cryolite	—	—	—	—	3,113	20,827	21,211
Crude	1,503	1,153	1,567	1,188	1,246	2,235	3,061
Scrap	23	37	42	238	251	65	107
Bars, sheets, plates and wire	183	100	74	146	205	1,654	2,108
Leaf	92	78	68	107	34	307	300
Aluminium sulphates ..	2,664	2,653	2,206	1,608	1,036	1,760	2,447
Finland (total imports)—							
Crude and scrap	247	255	72	150	12	440	478
Bars and sheets	406	515	443	284	103	352	681
Aluminium sulphates ..	7,722	7,881	7,556	3,502	3,310	6,906	9,362
France—							
Bauxite	—	—	20	(a)	16	11	611
Cryolite	70	1,520	—	—	—	2,376	59
Alumina	1	2	2	1	428	893	5
Aluminium hydrates ..	1	—	—	9	246	360	—
Cryolite, artificial ..	3	5	11	1	—	354	—
Ingots and scrap	3,496	961	44	458	1,077	11,078	29,720
Sheets, wire, etc.	85	498	515	414	300	1,776	931
Aluminium sulphates ..	14	119	5	(a)	3	1	—

(a) Information not available.

(b) Excess of re-exports.

(c) Including chloride.

IMPORTS OF ALUMINIUM, ETC. (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Germany—							
Bauxite and cryolite ..	1,153,497	1,484,396	1,510,611	(b) 878,869	} (a)	(a)	(a)
Crude, scrap and alloys	67,332	35,024	35,650	(b) 20,962			
Sheets, wire, castings, etc.	11,902	12,632	5,699	(b) 4,336			
Aluminium sulphates, etc. including refined bauxite	4,491	34,679	39,461	(b) 18,626			
Greece—							
Aluminium	(a)	(a)	(a)	(a)	10	295	(a)
Foil	(a)	(a)	(a)	(a)	—	35	(a)
Hungary—							
Alumina and aluminium hydrates	} (a)	(a)	(a)	(a)	(a)	(a)	(a)
Crude, scrap and alloys							
Bars, sheets and wire .. Aluminium sulphates ..							
Iceland—							
Aluminium sulphates ..	5	1	3	2	8	11	(a)
Italy—							
Bauxite	—	492	—	(a)	—	7,670	27,042
Alumina	—	—	—	(a)	—	1,476	492
Crude, scrap and alloys	10,314	11,200	7,096	276	—	20	6,263
Netherlands—							
Bauxite	1,411	261	689	} (a)	(a)	} (a)	} (a)
Crude, scrap and alloys	1,516	1,228	1,359				
Foil	422	91	145				
Aluminium sulphates ..	4,671	4,224	2,619				
Norway—							
Bauxite	23,588	26,809	40,794	28,107	—	6,991	28,310
Cryolite	1,548	1,206	1,193	1,909	12	644	1,891
Alumina	18,862	28,901	26,078	15,015	—	17,217	35,159
Crude	35	5	1	—	—	—	492
Bars, sheets, etc. ..	124	785	630	41	1	145	(a)
Aluminium sulphates ..	4,108	3,270	1,778	2,133	2,502	5,273	7,821
Poland—							
Bauxite	(a)	(a)	(a)	(a)	757	8,027	(a)
Portugal—							
Cryolite	—	—	—	15	73	34	26
Powder	(a)	19	45	19	36	37	(a)
Aluminium and alloys	79	47	123	325	295	964	1,495
Aluminium sulphates ..	372	620	502	548	700	1,098	(a)
Roumania—							
Crude	} (a)	(a)	(a)	(a)	(a)	(a)	(a)
Sheets and wire							
Spain—							
Alumina	2,871	1,133	1,823	—	1,133	2,182	2,063
Ingots and scrap	399	110	629	1,426	1,922	2,028	2,802
Sheets, tubes and wire ..	2	11	40	5	610	28	43
Aluminium sulphates ..	269	381	221	108	36	25	14
Sweden—							
Bauxite	5,712	9,767	17,652	5,158	—	16,634	27,642
Cryolite (incl. artificial) ..	157	209	280	287	64	688	496
Alumina	1,498	510	1,168	—	3,010	1,782	2,797
Crude	1,618	1,279	2,883	1,056	2,274	7,916	9,612
Sheets and strips	294	95	399	312	104	2,561	3,923
Aluminium sulphates ..	71	4	5	17	7	227	852

(a) Information not available.

(b) January to July only.

IMPORTS OF ALUMINIUM, ETC. (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Switzerland—							
Alumina, etc.	48,524	49,663	39,478	9,760	14,286	25,948	44,750
Blocks, ingots, etc., and scrap	105	122	240	3	7,486	7,866	7,048
do. (alloyed)	145	929	90	24	64	13	173
Bars, sheets, tubes and wire	3	6	—	2	21	432	1,297
do. (alloyed)	35	8	18	6	223	55	122
Aluminium sulphates	375	412	204	156	220	351	322
Algeria							
Bauxite	583	39	—	—	—	28	1,598
Ingots, sheets, wire, etc.	262	316	72	185	583	533	758
Aluminium sulphates	211	164	88	30	185	212	223
Egypt—							
Bars, sheets, tubes and wire	3	—	—	1	43	239	(a)
Foil	23	4	—	—	—	130	(a)
Aluminium sulphates	263	4,191	2,192	2,402	4,565 (c)	741	(a)
Madagascar—							
Aluminium sulphates	137	(a)	(a)	(a)	(a)	(a)	(a)
Tunis—							
Ore, ingots and scrap	25	11	11	—	101	147	393
Aluminium sulphates	51	55	—	8	168	100	105
Cuba (total imports)—							
Aluminium sulphates	3,678	1,613	1,669	2,042	2,559	(a)	(a)
Mexico—							
Alumina	76	270	14	176	470	489	(a)
Ingots, bars and sheets	251	481	50	312	1,200	3,069	(a)
Aluminium sulphates	1,391	824	546	1,142	867	924	(a)
United States—							
Bauxite, crude	1,116,546	884,217	1,547,854	560,461	739,581	852,005	1,821,580
Refined bauxite	60	21,711	12,372	—	179	4	(a)
Cryolite	26,684	64,565	46,400	15,534	17,952	10,200	19,650
Crude, scrap and alloys	11,503	94,894	121,005	91,161	(a)	(a)	27,945
Sheets, bars, etc.	471	5,228	50	578	1,507	1,000 (b)	280
Foil (d)	80	—	—	3	(a)	(a)	35
Aluminium sulphates	—	—	69	—	(a)	(a)	72
Argentina—							
Bauxite	(a)	4,927	224	1,240	1,680	2,065	(a)
Ingots, sheets and wire	230	—	—	23	1,384	2,591	(a)
Aluminium sulphates	2,281	2,004	475	333	1,581	3,910	(a)
Brazil (total imports)—							
Cryolite	105	10	29	257	111	132	(a)
Bars, sheets and wire	247	89	480	1,750	2,965	2,968	6,310
Aluminium sulphates	838	879	815	1,822	1,524	3,127	(a)
Chile—							
Bars and sheets	43	18	2	24	160	458	(a)
Aluminium sulphates	52	34	111	634	849	358	(a)
Colombia—							
Ingots, bars, sheets, etc.	107	12	14	8	(a)	1,119	(a)
Aluminium sulphates	2,804	1,635	2,663	1,704	(a)	2,074	(a)
Peru—							
Ingots	41	3	8	(a)	26	30	(a)
Aluminium sulphates	1,161	274	294	580	463	1,142	(a)
Uruguay—							
Ingots, sheets, etc.	(a)	(a)	6	136	(a)	(a)	(a)
Aluminium sulphates	(a)	(a)	358	1,337	(a)	(a)	(a)

(a) Information not available.

(b) Excess of re-exports.

(c) Alum only.

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

IMPORTS OF ALUMINIUM, ETC. (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Venezuela—							
Crude	—	—	—	(a)	(a)	(a)	(a)
Aluminium sulphates ..	550	40	685	(a)	(a)	(a)	(a)
China—							
Sheets and wire ..	} (a)	(a)	(a)	(a)	(a)	} 3,559	4,484
Foil, including interleaved with paper .. ..								673	1,190
Iran (b)—							
Ingots, sheets, scrap, etc.	—	—	3	(a)	(a)	(a)	(a)
Iraq—							
Bars, sheets, wire, etc. ..	11	1	—	—	(a)	(a)	(a)
Aluminium sulphates ..	214	433	244	552	(a)	(a)	(a)
Japan (c)—							
Bauxite	144,394	504,016	910,164	337,947	1,775	(a)	(a)
Ingots, blocks, etc. ..	16,994	19,550	29,553	25,933	(a)	(a)	(a)
Netherlands East Indies—							
Ingots, sheets, wire and alloys	(a)	} (a)	(a)	(a)	(a)	(a)	(a)
Aluminium sulphates ..	(d) 5,037						
Syria and Lebanon—							
Aluminium sulphates ..	11	38	66	28	97	234	(a)
Turkey—							
Bars, sheets, wire and alloys	(a)	(a)	(a)	20	73	133	454
Aluminium sulphates ..	(a)	(a)	(a)	770	1,525	764	288

(a) Information not available.

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

(c) Including Formosa.

(d) January to October only.

ANTIMONY

PRODUCTION OF ANTIMONY ORE

(In terms of metal)

(Long tons)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Southern Rhodesia ..	89	181	175	124	32	16	82
Union of South Africa ..	476	1,051	1,663	2,766	2,408	2,485	3,346
Canada (c)	7	—	—	—	—	—	—
Burma (estimated) ..	(a)	(d) 830	(d) 830	(d) 830	(d) 830	(a)	(a)
India	70	100	140	340	290	200	(a)
Sarawak	—	—	—	—	—	—	—
Australia (e)	1,126	1,115	569	486	184	530	170
New Zealand	8	—	—	—	—	—	—
FOREIGN COUNTRIES							
Austria	(a)	(a)	(a)	2,400	(a)	66	220
France	—	(a)	163	124	163	217	(f) 220
Italy	810	650	600	470	370	560	490
Portugal	49	133	57	35	3	3	25
Yugoslavia	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Algeria	423	325	965	182	453	—	118
Morocco (French) ..	200	344	438	177	378	250	413
do. (Spanish)	95	160	150	20	(a)	(a)	(a)
Honduras	25	110	190	114	(a)	(a)	(a)
Mexico	10,956	11,491	13,466	10,758	8,614	6,468	6,816
United States (b) ..	1,084	2,629	4,961	4,228	1,723	2,237	4,746
Argentina	165	44	67	(a)	(a)	(a)	(a)
Bolivia (exports) ..	14,637	17,364	17,689	7,330	5,448	6,854	10,686
Peru	1,540	1,559	2,639	1,041	2,265	1,194	1,272
China	7,503	4,400	497	200	—	956	(a)
French Indo-China ..	4	1	12	30	—	—	—
Japan	101	108	299	453	419	61	94
Korea	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Siam	—	—	24	58	44	—	112
Turkey	50	640	10	60	40	40	120

Antimony ore is also produced in Czecho-Slovakia, Greece, and Spain.

(a) Information not available.

(b) Secondary metal was recovered as follows (long tons): 1941—19,312; 1942—16,250; 1943—13,824; 1944—14,184; 1945—15,311; 1946—17,067; 1947—20,522.

(c) Metal in ore exported. Metal recovered as a by-product from flue dust was as follows (long tons, : 1941—1,415; 1942—1,358; 1943—497; 1944—865; 1945—745; 1946—287; 1947—513.

(d) Average annual production during Japanese occupation (1942 to 1945).

(e) In addition the antimony content of antimonial slag obtained as a by-product of lead refinery was as follows (long tons): 1941—458; 1942—591; 1943—771; 1944—379; 1945—386; 1946—540; 1947—149.

(f) Estimated.

EXPORTS OF ANTIMONY, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Regulus, etc.	148	78	113	283	774	489	357
Southern Rhodesia—							
Ore	166	276	296	238	52	26	105
Union of South Africa—							
Ore	(a)	(a)	(a)	4,148	4,255	4,156	5,703
Burma							
Ore	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Sarawak—							
Ore	(a)	(a)	(a)	(a)	(a)	—	(a)
Hong Kong (including re- exports)—							
Crude and regulus . .	(a)	(a)	(a)	(a)	(a)	1,159	4,988
India—							
Ore	—	2	—	—	—	—	(a)
Regulus	810	—	—	—	628	(a)	(a)
Australia—							
Ore and concentrates (b)	—	(d) 176	—	4	15	723	(e) 464
Lead residues (Sb con- tent) (b)	1	—	—	—	—	—	—
Regulus	810	—	—	—	628	95	113
Antimony and alloys (£ Aust.)	(£36,257)	(£11,003)	(£23,111)	(£8,610)	(£4,518)	(£74,594)	(£3,973)
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Ore	—	466	271	—	(a)	(a)	(a)
Regulus	93	484	436	145	(a)	(a)	(a)
Czecho-Slovakia—							
Regulus	(a)	(a)	(a)	(a)	(a)	541	269
Denmark—							
Regulus	—	—	—	5	—	—	49
France—							
Crude and regulus . .	29	133	20	11	8	17	14
Oxide, sulphide, etc. . .	9	21	3	1	—	4	3
Germany—							
Ore, including arsenical ores	2	975	1,481	(c) 1,790	} (a)	(a)	(a)
Regulus and scrap . .	260	252	289	(c) 87			
Oxide, etc.	262	220	162	(c) 39			
Netherlands—							
Regulus and scrap . .	28	—	—	—	(a)	—	8
Portugal—							
Ore	173	105	246	94	136	2	18
Spain—							
Regulus	—	—	35	142	15	20	5
Sweden—							
Crude	1	7	3	—	3	13	44
Regulus	15	—	—	—	—	5	11

(a) Information not available.

(b) Years ended June 30 of that stated.

(c) January to July only.

(d) Sb content.

(e) Calendar year.

EXPORTS OF ANTIMONY, ETC. (Cont.)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Algeria—							
Ore	(a)	(a)	(a)	83	443	147	—
Morocco (French)—							
Ore	—	302	6	229	841	606	1,150
Morocco (Spanish)—							
Ore	(a)	(a)	(a)	320	100	231	—
Honduras—							
Ore (Sb content) ..	24	11	175	70	(a)	(a)	(a)
Mexico—							
Ore	23,956	31,037	31,941	27,931	21,423	16,936	19,763
Concentrates	462	536	1,308	381	543	137	102
Regulus	304	267	955	620	31	73	107
Sb content (b)	10,564	11,105	12,396	10,115	7,878	5,906	(a)
United States—							
Ore	—	—	1	44	222	3	691
Metal	(a)	32	259	622	74	410	249
Oxide and sulphide ..	(a)	173	137	411	107	(a)	(a)
Bolivia—							
Ore (Sb content)	14,637	17,364	17,689	7,330	5,448	6,854	10,686
Peru—							
Ore and metal (Sb content)	1,544	1,421	2,342	977	2,231	1,079	1,029
China—							
Crude	} (a)	(a)	(a)	(a)	(a)	} —	49
Regulus							8,390
Oxide							3
Japan—							
Regulus (Sb content) ..	34	3	2	—	—	(a)	236
Turkey—							
Ore	(a)	(a)	(a)	—	—	120	295

(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	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Ore	6,781	12,036	9,214	9,366	9,470	10,470	12,215
Crude and regulus	389	—	—	—	—	477	105
Southern Rhodesia—							
Crude and regulus	5	—	12	9	4	1	16
Union of South Africa—							
Crude and regulus	83	15	52	273	196	55	(a)
Canada—							
Regulus	1	—	107	696	462	831	1,286
Hong Kong (total imports)—							
Ore	(a)	(a)	(a)	(a)	(a)	—	19
Crude and regulus	(a)	(a)	(a)	(a)	(a)	3,713	4,470
Australia—							
Ore	20	—	—	—	40	421	1,127
Crude and regulus	9	—	—	—	—	—	3
Sulphide	—	—	—	—	—	—	1
New Zealand—							
Antimony	33	59	121	130	—	—	66
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Ore	—	22	—	—	(a)	(a)	(a)
Regulus	2	6	1	—	(a)	(a)	(a)
Denmark—							
Regulus	17	9	38	6	39	192	254
France—							
Ore	1,412	1,019	—	(a)	1,267	1,411	2,354
Crude and regulus	—	—	1	(a)	418	716	2,095
Oxide and sulphide	—	—	—	(a)	—	16	20
Germany—							
Ore and matte	287	1,385	102	(b) 25	(a)	(a)	(a)
Regulus and scrap	2,346	2,158	2,880	(b) 1,259			
Oxide, etc.	118	160	90	(b) 2			
Italy—							
Regulus	50	391	186	2	—	96	75
Oxide	31	22	2	(a)	—	10	36
Netherlands—							
Regulus and scrap	—	5	37	(a)	(a)	370	663
Norway—							
Regulus	14	8	12	4	23	115	(a)
Portugal—							
Crude and alloys	7	(a)	20	9	9	17	31
Sulphide	5	—	—	(a)	10	14	2
Spain—							
Antimony	55	—	—	—	—	—	—
Sulphide	—	—	4	—	3	15	2
Sweden—							
Crude	—	—	—	—	14	119	75
Regulus	113	46	199	51	20	321	300
Switzerland—							
Regulus	100	109	35	39	46	290	368

(a) Information not available.

(b) January to July only.

IMPORTS OF ANTIMONY, ETC. (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Algeria—							
Regulus	—	—	—	—	12	36	13
Tunis—							
Regulus and sulphide ..	1	11	6	100	9	8	4
Mexico—							
Oxide and Sulphide ..	42	28	17	62	46	50	(a)
United States—							
Ore (<i>Sb content</i>) ..	17,309	18,702	25,674	15,250	20,217	5,271	8,288
Regulus, crude, etc. ..	7,238	580	832	246	560	2,315	5,264
Oxide and sulphide ..	2	—	(a)	(a)	(a)	(a)	(a)
Argentina—							
Ore	(a)	622	189	378	527	761	(a)
Regulus and crude ..	8	208	6	16	—	3	(a)
Brazil—							
Antimony	323	149	420	210	65	223	(a)
Chile—							
Regulus	18	161	208	73	41	115	(a)
Oxide and sulphide ..	4	—	7	25	13	1	(a)
Peru—							
Regulus and sulphides ..	3	1	—	2	9	7	(a)
Uruguay—							
Regulus	(a)	(a)	5	—	(a)	(a)	(a)
Japan—							
Ore and metal (<i>Sb content</i>)	6,397	290	6	90	—	(a)	(a)
Turkey—							
Regulus	(a)	(a)	(a)	3	3	11	3

(a) Information not available.

ARSENIC
PRODUCTION OF ARSENIC
(Long tons)

Producing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Great Britain—							
White arsenic and arsenic soot	81	73	123	139	115	145	90
Southern Rhodesia—							
White arsenic	—	172	1,654	844	436	212	409
Union of South Africa—							
White arsenic	—	—	—	—	45	8	2
Canada—							
White arsenic	1,579	(b) 6,682	1,408	1,173	913	333	352
India—							
Orpiment	6	—	—	—	8	—	(a)
Australia—							
White arsenic	3,446	2,481	2,336	2,339	1,989	1,624	1,191
New Zealand—							
White arsenic	—	8	8	16	17	18	8
FOREIGN COUNTRIES							
Belgium (exports)—							
White arsenic	711	294	15	—	(a)	(a)	(a)
France—							
Ore (<i>As content</i>)	6,123	2,273	1,471	1,780	2,700	2,910	2,480
White arsenic (<i>d</i>) (<i>f</i>)	6,212	6,343	6,285	2,214	1,856	4,079	(a)
Germany (exports)—							
White arsenic	1,967	3,523	552	(c) 570	(a)	(a)	(a)
Greece—							
White arsenic	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Pyrites (<i>As content</i>)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Italy—							
Mispickel (<i>As content</i>)	3,570	1,970	805	190	90	840	1,500
White arsenic	532	354	450	250	100	1,400	1,600
Portugal—							
White arsenic (<i>f</i>)	525	511	579	342	239	500	989
Spain—							
White arsenic	93	219	235	332	(a)	(a)	(a)
Sweden—							
Ore (<i>As content</i>)	(a)	(a)	(a)	6,466	3,757	3,010	2,663
Mexico—							
White arsenic	12,641	18,228	19,980	15,064	14,776	9,496	9,533
United States—							
White arsenic	29,061	25,608	27,859	32,227	21,740	9,117	16,746
Argentina—							
Ore (<i>As content</i>)	—	—	169	(a)	(a)	(a)	(a)
Brazil—							
White arsenic	1,153	885	954	828	947	816	985
Peru—							
White arsenic	—	—	1,107	6,740	3,149	741	598
Iran—							
Ore	(a)	(a)	(a)	(a)	(a)	(a)	500
Japan—							
White arsenic	3,451	2,060	(e) 2,248	(e) 1,393	(a)	1,075	1,385

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

(a) Information not available.

(b) Including 3,176 long tons of arsenic in ore exported.

(c) January to July only.

(d) Derived from ore shown and *not* additional.

(e) Incomplete.

(f) Revised.

EXPORTS OF ARSENIC, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
White arsenic	25	18	—	1	6	} 532	327
Other compounds of arsenic	58	64	4	4	2		
Southern Rhodesia—							
White arsenic	102	179	24	12	3	(a)	10
Canada—							
White arsenic, etc. ..	1,758	3,744	2,954	2,677	2,710	767	1,951
Hong Kong (including re-exports)—							
Arsenic	(a)	(a)	(a)	(a)	(a)	—	1
Australia (years ended June 30)—							
Arsenic and compounds	1,420	1,622	545	101	63	41	7
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Sulphide	68	5	21	27	} (a)	(a)	(a)
Metallic arsenic	—	—	3	—			
White arsenic	711	294	15	—			
France—							
White arsenic	67	29	1,676	418	1	3	83
Arsenate of lead	111	160	7	22	14	940	3,240
Arsenate of soda	160	87	—	—	28	10	139
Germany—							
Ore, including antimony ore	2	975	1,481	(b) 1,790	(a)	(a)	(a)
White arsenic, etc. ..	1,967	3,523	552	(b) 570	(a)	(a)	(a)
Italy—							
White arsenic	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Portugal—							
Ore	—	116	—	—	—	170	39
White arsenic	513	506	918	867	138	299	719
Mexico—							
White arsenic, pure ..	8,085	7,410	5,297	4,933	7,833	6,517	} (a)
do. crude	4,466	11,352	10,557	8,035	7,472	3,493	
Ores and concentrates ..	—	—	268	1,157	233	152	
As ₂ O ₃ content (c) ..	12,391	17,780	19,647	13,409	14,251	9,211	
United States—							
White arsenic	1,924	272	1,764	2,144	766	(a)	(a)
Arsenate of lead	4,283	264	1,364	1,904	2,830	1,248	1,386
Arsenate of lime	2,633	1,760	2,850	1,076	1,562	3,070	2,218
Peru—							
White arsenic	—	3	396	4,172	4,207	3,021	(a)
Japan—							
White arsenic	823	309	587	(a)	(a)	(a)	(a)
Turkey—							
Ore	(a)	(a)	(a)	6	1	—	3

(a) Information not available.

(b) January to July only.

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

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

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947		
BRITISH COUNTRIES									
United Kingdom—									
White arsenic	5,859	6,076	4,445	4,345	2,476	4,269	5,706		
Other compounds ..	—	26	535	—	—	—	1		
Union of South Africa—									
Arsenate of soda (c) ..	6	4	69	—	52	33	(a)		
Canada—									
Sulphide	1	2	2	1	—	—	} 110		
White arsenic	23	1	—	—	—	—			
Arsenate of lead	—	8	2	—	—	—	2		
Arsenate of lime	30	5	4	—	14	27	—		
British India—									
Arsenic and its oxides ..	400	14	1	2	125	131	(d) 978		
Hong Kong (total imports)—									
Arsenic	(a)	(a)	(a)	(a)	(a)	—	5		
Australia—									
White arsenic	—	—	—	—	10,113	1,635	1,536		
Other compounds	6	1	—	2	16	66	56		
New Zealand—									
White arsenic, etc. ..	48	52	84	25	125	31	56		
FOREIGN COUNTRIES									
Belgium-Luxemburg E.U.—									
Ore	—	—	—	—	} (a)	(a)	(a)		
Sulphide	6	1	—	—					
Metallic arsenic	—	—	—	—					
White arsenic	1	—	—	—					
Bulgaria—									
White arsenic	1	4	1	—	(a)	(a)	(a)		
Czecho-Slovakia—									
Sulphide	} (a)	(a)	(a)	(a)	(a)	} 20	102		
Metallic arsenic								1	16
White arsenic								68	88
France—									
Ore	—	443	—	—	—	—	—		
Sulphide	—	—	—	—	—	2	6		
Metallic arsenic	—	—	—	—	—	—	4		
White arsenic	—	—	—	—	—	258	394		
Arsenate of lead	1,921	3,011	31	—	—	2	41		
Germany—									
White arsenic, etc. ..	2,872	427	1,490	(b) 157	(a)	(a)	(a)		
Italy—									
Metallic arsenic	15	—	—	—	—	—	2		
Portugal—									
Metallic arsenic	—	—	—	—	1	—	1		
White arsenic	16	3	—	—	—	49	1		
Arsenate of soda	3	2	1	3	6	8	3		
Spain—									
Arsenic	2	—	5	—	1	2	—		
Algeria—									
White arsenic	—	—	—	—	2	—	11		
Sulphide	—	—	—	—	—	—	1		
Arsenates	173	122	28	271	279	107	76		
Madagascar—									
Arsenates	34	(a)	—	25	(a)	(a)	(a)		

(a) Information not available.

(b) January to July only.

(c) Includes arsenite of soda.

(d) January to November only.

IMPORTS OF ARSENIC, ETC. (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Mozambique—							
Arsenate of soda ..	30	3	—	—	—	—	(a)
Tunis—							
Sulphide	3	—	—	—	—	—	—
Arsenates	2	51	—	10	5	5	—
United States—							
Metallic arsenic	1	3	3	10	23	41	8
White arsenic	9,189	14,598	14,017	8,688	11,740	12,340	12,446
Sulphide	5	(a)	(a)	—	8,960	39	20
Arsenates of lime and soda	536	—	60	—	—	—	—
Argentina—							
Sulphide	—	—	—	—	—	2	(a)
White arsenic	1,006	292	255	1,403	1,012	708	(a)
Compounds	—	—	—	—	—	5	(a)
Brazil—							
White arsenic	610	—	—	1,739	2,024	654	(a)
Chile—							
Metallic arsenic	3	—	33	—	—	25	} (a)
White arsenic	—	—	—	8	15	21	
Arsenate of lead	10	49	129	162	97	13	
Other arsenic compounds	—	—	—	—	3	6	
Uruguay—							
White arsenic	504	(a)	49	882	(a)	(a)	(a)
Netherlands East Indies—							
Arsenate of lead	(b) 110	(a)	(a)	(a)	(a)	(a)	(a)
Turkey—							
Arsenic compounds ..	(a)	(a)	(a)	11	50	24	44

(a) Information not available.

(b) January to October only.

ASBESTOS

PRODUCTION OF ASBESTOS

(Long tons)

Producing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Kenya	(a)	(a)	350	336	385	162	573
Southern Rhodesia	39,405	49,824	51,916	52,047	50,312	49,886	48,298
Swaziland	18,863	22,852	16,907	29,160	20,907	28,695	24,959
Union of South Africa—							
Amosite	16,966	22,253	20,709	20,400	14,944	8,782	16,768
Blue	6,580	6,822	9,236	8,630	8,635	7,760	8,106
Chrysotile	1,420	1,712	1,816	1,798	1,576	1,487	2,012
Anthophyllite	55	69	79	48	38	27	27
Canada (b)—							
Chrysotile	426,648	392,374	417,139	374,344	416,871	498,376	590,911
Crude	2,541	2,580	1,800	1,381	876	663	855
Fibre	199,792	178,419	194,544	169,851	196,221	203,780	198,389
Shorts	224,315	211,375	220,795	203,112	219,774	293,933	391,667
Sand and gravel (waste rock only) (c)	7,548	7,223	6,173	4,037	4,562	5,658	8,580
Cyprus	5,829	1,542	1,331	2,528	3,132	4,077	6,687
India	366	507	288	583	820	293	(a)
Australia	251	331	678	764	1,629	618	1,377
New Zealand	53	43	187	17	2	—	—
Total	516,000	498,000	521,000	490,000	519,000	600,000	700,000
FOREIGN COUNTRIES							
Finland	3,781	4,605	7,348	7,611	4,131	(a)	(a)
France	(a)	13	77	31	394	566	407
Italy	10,596	11,510	(a)	(a)	(a)	8,675	10,303
Portugal	(a)	128	94	32	20	12	90
Egypt	—	—	7	236	84	64	999
Madagascar	3	107	—	3	1	1	—
Morocco (French)	(a)	118	179	498	472	439	778
United States—							
Chrysotile	17,986	11,704	1,546	6,398	10,702	12,489	21,841
Amphibole	2,011	1,971	1,977	350	214	390	605
Argentina	83	50	343	287	15	(a)	(a)
Bolivia (exports)	207	58	21	13	60	—	139
Brazil (exports)	—	—	2	—	—	—	(a)
French Indo-China	22	144	307	2,410	—	—	—
Japan—							
Chrysotile	—	1,502	4,406	8,075	2,617	(a)	(a)
Amphibole	(a)	(a)	1,910	(d) 1,171	(a)	(a)	(a)
Korea (Southern)	(a)	(a)	5,226	4,052	(a)	(a)	(a)
Turkey	144	288	131	230	136	54	35
Total*	40,000	38,000	34,000	36,000	25,000	30,000	43,000
WORLD'S TOTAL* ..	556,000	536,000	555,000	526,000	544,000	630,000	743,000

* Asbestos is also produced in Czecho-Slovakia, Greece, U.S.S.R., and China. No allowance has been made for these countries in the totals.

(a) Information not available.

(b) Sales and shipments.

(c) Not included in total.

(d) Incomplete.

EXPORTS OF ASBESTOS

(Domestic Produce)

(Long tons)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Unmanufactured—							
Crude and fibre ..	60	24	31	2	156	632	830
Waste, incl. asbestic ..	1	97	228	126	251	296	1,221
Packing, etc. ..	5,244	4,284	4,178	2,852	5,628	10,335	10,816
Cement products ..	19,495	14,711	18,903	18,328	23,815	39,443	80,181
Yarn and cloth ..	955	1,065	877	648	1,052	1,708	1,696
Other manufactures ..	7,321	4,568	2,919	1,771	3,158	7,243	6,780
Kenya and Uganda—							
Manufactured ..	—	1	1	(£3)	(£110)	37	202
Southern Rhodesia—							
Unmanufactured ..	48,414	55,654	50,341	41,746	44,867	55,129	50,290
Cement sheets ..	—	(£294)	(£4,490)	(£3,297)	(£19,008)	(£23,631)	(£17,961)
Union of South Africa—							
Unmanufactured ..	38,918	49,306	44,805	52,034	35,983	42,762	29,676
Manufactured (£ S.A.) ..	(£7,851)	(£9,095)	(£32,849)	(£42,189)	(£96,705)	(£70,071)	(a)
Canada—							
Crude ..	2,462	2,496	1,777	1,376	771	571	851
Fibre ..	194,195	177,189	188,247	162,204	187,290	192,172	199,726
Sand and waste ..	208,620	201,973	205,511	189,936	205,294	271,707	368,080
Manufactured ..	(£42,064)	(£38,958)	(£31,283)	(£41,391)	(£76,775)	(£53,635)	(£49,292)
Malaya (incl. re-exports)—							
Manufactured ..	(a)	(a)	(a)	(a)	(a)	11	179
Cyprus—							
Unmanufactured ..	4,797	3,448	1,311	2,186	3,445	6,606	7,021
Hong Kong (including re-exports)—							
Other manufactures ..	(a)	(a)	(a)	(a)	(a)	(£5,082)	(£11,608)
Australia—							
Unmanufactured ..	(a)	(a)	(a)	(a)	32	490	580
Packing (£ Australian) ..	(£2,461)	(£2,243)	(£2,038)	(£1,622)	(£487)	(£12,511)	(£8,382)
New Zealand—							
Unmanufactured ..	33	19	(a)	(a)	(a)	(a)	(a)
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Unmanufactured ..	172	4	18	—	}	(a)	(a)
Spun and woven ..	4	—	—	—			
Paper and board ..	69	—	60	8			
Cement sheets and tiles	1,724	1,012	12,981	15,108			
Other manufactures ..	—	—	3	—			
Czechoslovakia—							
Unmanufactured ..	}	(a)	(a)	(a)	(a)	10	—
Spun and woven ..						4	33
Paper and board ..						197	43
Other manufactures ..						17	64
Finland—							
Unmanufactured ..	1,595	2,085	3,648	2,030	945	995	1,583
Manufactured ..	1,004	1,210	1,098	848	409	614	820
France—							
Unmanufactured ..	(a)	74	8	1	1	1	137
Spun and woven ..	75	103	5	18	25	199	329
Paper and board ..	51	41	3	1	40	226	360
Brake linings ..	(a)	—	64	—	3	21	66

(a) Information not available.

EXPORTS OF ASBESTOS (Cont.)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Germany—							
Unmanufactured ..	862	1,220	1,005	(b) 228	} (a)	(a)	(a)
Spun and woven ..	727	617	343	(b) 129			
Paper and board ..	12,391	2,981	1,489	(b) 351			
Other manufactures ..	1,979	1,158	706	(b) 290			
Italy—							
Unmanufactured ..	48	610	1,028	(a)	(a)	(a)	1,313
Spun and woven ..							
Paper and board ..							
Cement products ..	} (a)	(a)	(a)	(a)	(a)	(a)	5,631
Other manufactures ..							
Netherlands—							
Unmanufactured ..	40	—	2	(a)	(a)	—	17
Cement sheets, tiles, etc.	3	21	193	(a)	(a)	—	1,098
Portugal—							
Unmanufactured ..	(a)	35	1	10	2	—	14
Spain—							
Unmanufactured ..	10	2	—	6	10	3	7
Manufactured	19	19	24	103	66	77	75
Sweden—							
Unmanufactured ..	—	—	—	—	—	—	109
Manufactured	1	—	—	—	7	33	55
Switzerland (including mica)—							
Unmanufactured ..	10	—	—	—	—	1	1
Manufactured	67	39	29	19	13	243	372
United States—							
Unmanufactured ..	4,327	691	328	424	7,634	9,831	1,863
Spun, woven and packing	1,389	908	871	969	1,486	2,078	1,876
Paper and board ..	1,375	606	744	690	673	583	963
Brake linings	(£356,223)	(£493,900)	(£331,100)	(£412,192)	(£451,367)	(£547,502)	(£858,551)
Clutch facings	(£90,427)	(£138,600)	(£137,600)	(£140,857)	(£138,135)	(£124,081)	(£197,193)
Pipe covering and cement	1,060	949	1,236	1,525	1,629	985	2,469
Other manufactures ..	3,957	1,263	2,513	4,778	5,398	7,780	5,004
Argentina—							
Manufactured	60	11	29	18	19	4	(a)
Bolivia—							
Unmanufactured ..	207	58	21	13	60	—	139
Brazil—							
Unmanufactured ..	—	—	2	—	—	—	(a)
Peru—							
Manufactured	(a)	(a)	(a)	(a)	123	620	(a)

(a) Information not available.

(b) January to July only.

IMPORTS OF ASBESTOS

(Less Re-exports)

(Long tons)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Unmanufactured—							
Crude and fibre ..	50,244	66,100	53,249	69,445	64,280	53,505	66,938
Waste, including							
asbestos	3,285	799	727	1,687	1,446	1,217	4,397
Packing, etc. ..	3	1	—	2	7	15	1
Cement products ..	4,055	2	3,835	1,121	—	932	2,000
Yarn and cloth ..	—	—	—	—	—	—	—
Other manufactures ..	1,175	527	291	1	10	4	37
Eire—							
Manufactured	1,002	618	190	781	800	1,717	2,036
Kenya and Uganda—							
Manufactured	118	26	33	12	120	551	1,149
Seychelles—							
Cement sheets	6	3	—	—	—	22	83
Southern Rhodesia (total imports)—							
Cement sheets	(£458)	(£2,934)	(£5,951)	(£6,524)	(£7,693)	(£4,764)	(£3,645)
Other manufactures ..	(£3,514)	(£749)	(£19,608)	(£23,628)	(£29,195)	(£18,544)	(£39,890)
South West Africa—							
Cement sheets (£ S.A.)	(£177)	—	(£669)	(£5,677)	(£8,541)	(£7,710)	(a)
Other manufactures (£ S.A.) ..	(£395)	(£890)	(£124)	(£2,560)	(£2,686)	(£4,680)	(a)
Tanganyika Territory—							
Manufactured	(b) 21	—	126	44	132	122	915
Union of South Africa—							
Packing (£ S.A.)	(£58,083)	(£46,878)	(£70,413)	(£57,988)	(£68,775)	(£98,000)	(a)
Cement products (£ S.A.)	(£17,199)	(£7,197)	—	—	(£300)	(£253)	(a)
Other manufactures (£ S.A.) ..	(£34,232)	(£7,602)	(£13,344)	(£8,324)	(£5,039)	(£8,787)	(a)
Canada—							
Packing	152	124	125	99	96	100	109
Other manufactures ..	(£457,321)	(£551,015)	(£485,105)	(£421,855)	(£474,770)	(£494,032)	(£853,457)
Newfoundland (c)—							
Asbestos and manufactures ..	(£1,646)	(d) (£1,780)	(£5,097)	(£11,560)	(£12,082)	(£13,387)	(£23,233)
British West Indies—							
Barbados—							
Cement sheets	(a)	(a)	(a)	(a)	(£3,967)	(£10,583)	(£18,721)
Grenada—							
Manufactures	(a)	(£1,226)	(£1,448)	(a)	£8	(£4,051)	(£1,271)
St. Vincent—							
Manufactured	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Trinidad and Tobago—							
Cement products	497	1,661	922	1,197	1,274	964	8,797
Other manufactures ..	181	314	234	101	145	143	104
Aden—							
Cement sheets	38	396	21	8	21	29	38
Other manufactures ..	(£159)	(£604)	(£212)	(£1,364)	(£83)	(£897)	(£1,227)
British India—							
Unmanufactured	10,336	10,860	6,599	10,326	5,527	8,355	(e) 3,974
Cement products	2,368	1,433	684	364	453	258	(e) 1,127
Packing	(£37,546)	(£41,020)	(£19,361)	(£31,469)	(£35,788)	(£51,372)	(e) (£2,924)
Other manufactures ..	(£114,139)	(£102,296)	(£36,401)	(£97,874)	(£112,701)	(£129,221)	(e) (£124,243)

(a) Information not available.

(b) Excess of re-exports.

(c) Years ended June 30 of year following for 1941 and March 31 subsequently.

(d) Nine months ended March 31, 1943.

(e) January to November only.

IMPORTS OF ASBESTOS (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947	
BRITISH COUNTRIES (Cont.)								
Burma—								
Packing	(a)	(a)	(a)	(a)	(a)	(b) (£663)	(a)	
Cement products ..	(a)	(a)	(a)	(a)	(a)	(b) (£22)	(a)	
Other manufactures ..	(a)	(a)	(a)	(a)	(a)	(b) (£185)	(a)	
Malaya (c)—								
Manufactured	(a)	(a)	(a)	(a)	(a)	2,425	7,808	
Cyprus—								
Sheets	(a)	(a)	(a)	1	(a)	89	585	
Hong Kong (total imports)—								
Manufactures	(a)	(a)	(a)	(a)	(a)	(£9,185)	(£29,799)	
Palestine—								
Manufactured	(£4,650)	(£3,770)	(£4,420)	(£10,829)	(£9,531)	(£46,558)	(a)	
Australia—								
Crude	14,220	20,176	14,229	14,091	9,131	18,697	15,110	
Packing (£ Australian) ..	(£129,277)	(£188,419)	(£137,933)	(£180,123)	(£197,093)	(£112,561)	(£109,455)	
New Zealand—								
Unmanufactured ..	2,133	2,338	3,000	2,702	3,471	1,651	2,295	
Sheets, slates, tiles, etc. (£ N.Z.)	(£423)	(£8,664)	(£3,369)	(£208)	(d) 89	(d) 610	(d) 47,491	
Lining and packing (£ N.Z.)	(a)	(a)	(a)	(a)	(£66,932)	(£70,256)	(£96,919)	
FOREIGN COUNTRIES								
Belgium-Luxemburg E.U.—								
Unmanufactured ..	99	69	23	2	} (a)	(a)	(a)	
Spun and woven ..	41	29	18	7				
Paper and board ..	102	75	66	25				
Other manufactures ..	1	—	1	1				
Bulgaria—								
Unmanufactured ..	8	10	9	1	(a)	(a)	(a)	
Manufactured	34	55	42	12	(a)	(a)	(a)	
Czechoslovakia—								
Unmanufactured ..	} (a)	(a)	(a)	(a)	(a)	} 886	2,146	
Spun and woven ..								2
Paper and board ..								6
Other manufactures ..								30
Denmark—								
Unmanufactured ..	412	424	284	175	1,152	3,405	6,865	
Spun and woven ..	37	42	9	13	5	120	106	
Paper and board ..	330	314	345	233	121	193	235	
Packing, etc.	78	91	81	96	25	367	267	
Cement sheets	1,991	104	15	1	—	36	30	
Finland (c)—								
Unmanufactured ..	33	18	10	2	2	190	222	
Manufactured	112	87	70	40	15	259	416	
France—								
Unmanufactured ..	846	2,217	1,075	268	9,628	36,735	18,722	
Spun and woven ..	2	12	4	7	1	672	84	
Paper and board ..	27	117	84	9	25	31	468	
Brake linings, etc. ..	—	6	7	14	5	86	34	
Germany—								
Unmanufactured ..	15,034	4,984	7,756	(e) 4,228	} (a)	(a)	(a)	
Spun and woven ..	3	14	4	(e) 53				
Paper and board ..	2,221	1,624	3,763	(e) 437				
Other manufactures ..	6	87	27	(e) 52				

(a) Information not available.

(b) February to September only.

(c) Total imports.

(d) Square yards.

(e) January to July only.

IMPORTS OF ASBESTOS (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Greece	(a)	(a)	(a)	(a)	—	49	(a)
Iceland—							
Unmanufactured ..	48	5	33	—	12	—	(a)
Manufactured	24	244	192	159	230	191	(a)
Italy—							
Unmanufactured ..	510	313	(a)	(a)	(a)	(a)	1,916
Spun and woven ..	(a)	(a)	(a)	(a)	(a)	(a)	} 2,679
Paper and board ..	(a)	(a)	(a)	(a)	(a)	(a)	
Netherlands—							
Unmanufactured ..	158	148	172	(a)	(a)	2,353	3,492
Cement sheets, tiles, etc.	1,232	113	37	(a)	(a)	4,358	4,910
Norway—							
Unmanufactured ..	392	403	681	424	740	1,397	(a)
Manufactured	517	561	380	198	319	578	(a)
Portugal—							
Unmanufactured ..	630	910	763	1,337	1,128	2,531	1,268
Manufactured	28	27	19	46	33	62	72
Roumania—							
Unmanufactured ..	} (a)	(a)	(a)	(a)	(a)	(a)	(a)
Manufactured							
Spain—							
Unmanufactured ..	682	1,532	925	5,112	1,317	4,497	2,467
Manufactured	321	464	444	259	334	582	237
Sweden—							
Unmanufactured ..	773	720	1,250	1,195	7,665	5,161	8,259
Manufactured	1,498	1,103	629	282	585	1,923	1,951
Switzerland (including mica)—							
Unmanufactured ..	725	444	514	48	988	2,633	2,065
Manufactured	1,127	587	475	517	105	1,279	1,255
Algeria—							
Unmanufactured ..	—	—	—	10	—	21	58
Manufactured	59	64	—	38	55	300	166
Belgian Congo—							
Unmanufactured ..	(a)	(a)	804	829	402	(a)	(a)
Cement sheets, etc.	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Other manufactures ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Egypt—							
Unmanufactured ..	107	104	105	71	295	(b) 154	} (a)
Paper and board ..	129	177	32	41	203	186	
Other manufactures ..	(£13,480)	(£26,324)	(£13,345)	66	126	182	
Costa Rica—							
Unmanufactured ..	(a)	3	3	32	60	76	(a)
Honduras—							
Manufactured	(a)	(a)	(a)	(a)	940	434	(a)
Mexico—							
Unmanufactured ..	2,050	3,424	1,894	293	3,230	3,334	(a)
Manufactured	330	533	412	411	788	840	(a)
United States—							
Unmanufactured—							
Crude	29,610	29,122	49,639	25,641	17,153	13,306	32,100
Mill fibre	146,099	150,022	145,201	132,231	122,976	136,817	143,761
Other	198,573	195,179	198,028	183,864	193,977	257,634	354,003
Manufactured	65	1,069	114	179	(a)	(a)	(a)
Argentina—							
Spun and woven ..	499	450	310	126	220	898	(a)
Paper and board ..	4,453	5,865	5,274	6,266	9,655	4,803	(a)
Brazil (total imports)—							
Unmanufactured ..	1,060	992	2,229	1,662	1,992	3,046	(a)
Manufactured	817	539	446	597	930	2,054	(a)

(a) Information not available.

(b) Total imports.

IMPORTS OF ASBESTOS (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Chile—							
Manufactured	1,191	2,327	1,840	2,254	1,676	1,970	(a)
Colombia—							
Unmanufactured ..	488	196	924	(a)	(a)	1,745	(a)
Manufactured	373	268	87	396	(a)	(a)	(a)
Uruguay—							
Unmanufactured ..	} (a)	(a)	626	350	(a)	(a)	(a)
Manufactured							
Venezuela—							
Unmanufactured ..	400	6	17	(a)	(a)	(a)	(a)
Manufactured	4,145	1,228	1,723	(a)	(a)	(a)	(a)
China	(a)	(a)	(a)	(a)	(a)	562	764
Japan (total imports)—							
Unmanufactured ..	} (b)16,000	(a)	(a)	(a)	(a)	(a)	(a)
Manufactured							
Syria and Lebanon—							
Cement sheets, etc. ..	—	32	11	(a)	—	284	(a)
Other manufactures ..	2	1	5	(a)	7	46	(a)
Turkey—							
Manufactured	(a)	(a)	(a)	112	112	92	20

(a) Information not available

(b) U.S. Bureau of Mines.

BARIUM MINERALS

PRODUCTION OF BARIUM MINERALS
(Long tons)

Producing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Great Britain—							
Barytes, unground ..	64,150	57,522	59,280	57,688	53,874	68,101	46,327
Witherite, unground ..	9,709	12,813	11,835	10,839	10,766	14,376	14,727
Barytes—							
Ground, bleached ..	2,820	3,306	2,768	3,243	3,062	2,672	3,370
do. unbleached ..	24,975	25,086	27,230	27,066	25,513	25,776	30,222
Eire—							
Barytes, refined ..	(a)	(a)	4,375	5,496	6,690	6,130	6,298
do. unrefined ..	(a)	(a)	1,023	4,857	9,760	7,213	6,425
Canada	6,152	17,560	21,852	105,999	124,633	107,517	114,888
Southern Rhodesia ..	1,050	2,633	1,236	13	—	171	18
Swaziland	—	—	—	—	(e) 78	(e) 220	(f) 169
Union of South Africa ..	1,398	733	2,696	3,150	2,174	2,289	2,629
India	12,962	18,258	8,860	15,299	24,655	29,091	(a)
Palestine	—	—	—	—	23	3	(a)
Australia	4,911	6,410	4,537	4,416	3,447	7,589	5,413
FOREIGN COUNTRIES							
France	(c) 4,424	26,524	18,000	9,424	13,577	34,024	(a)
Germany—							
Baden	40,249	43,459	(a)	(a)	(a)	(d) 1,968	10,388
Bavaria	25,385	27,102	28,805	22,659	(a)	(a)	(a)
Prussia	263,078	254,518	255,000	250,000	(a)	(a)	(a)
Saxony	15	25	(a)	(a)	(a)	(a)	(a)
Thuringia	10,530	9,209	(a)	(a)	(a)	(a)	(a)
Italy	25,620	37,008	30,777	(a)	(a)	24,468	64,759
Portugal	38	222	1	69	285	246	835
Spain	7,755	6,897	6,210	7,373	9,740	12,000	(a)
Sweden	(a)	(a)	(a)	(a)	1,230	497	1,298
Algeria	(c) 2,540	(c) 2,709	2,005	1,334	2,835	7,037	6,400
Egypt	30	59	75	58	53	—	164
Tunis	(a)	(a)	71	66	69	404	462
Cuba (b)	15,967	3,727	3,108	8,089	(a)	(a)	(a)
United States	431,599	401,672	383,302	459,050	618,152	647,521	789,481
Argentina	4,108	6,971	10,835	14,178	8,449	(a)	(a)
Chile	10	—	(a)	1,581	3,110	3,693	(a)
Peru	—	—	—	2,315	4,173	7,073	6,456
French Indo-China ..	270	100	—	—	—	—	—
Japan	14,027	15,103	15,395	11,859	7,421	709	929
Korea	(a)	(a)	(a)	4,999	(a)	(a)	(a)

Barytes is also produced in Czecho-slovakia, Greece, Norway, U.S.S.R., China, Japan and Brazil.

(a) Information not available.

(b) Exports.

(c) U.S. Bureau of Mines.

(d) April to December only.

(e) Unground.

(f) Ground.

EXPORTS OF BARIUM MINERALS, ETC.*

(Domestic Produce)

(Long tons)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Unground barytes ..	3,852	593	10	—	30	160	93
Ground barytes ..	1,475	777	38	66	941	629	1,539
Dioxide ..	122	129	108	40	68	183	10
Barium, compounds, excluding blanc fixe ..	3,594	2,696	1,065	740	2,778	3,704	3,140
Eire—							
Unground barytes ..	—	—	—	267	2,330	732	80
Ground barytes ..	—	174	2,748	4,419	4,250	6,473	3,205
Canada—							
Unground ..	(a)	(a)	—	60,000	41,000	75,965	(a)
Ground ..	(a)	(a)	20,000	34,000	54,000	29,542	(a)
Southern Rhodesia—							
Barytes ..	793	2,507	1,210	16	34	81	143
British India—							
Barytes ..	—	—	—	—	—	—	—
Australia—							
Barytes ..	—	—	—	—	—	1,143	1,044
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Barytes, including Iceland spar and cryolite ..	118	315	30	8	} (a)	(a)	(a)
Chloride ..	476	6	505	30			
Sulphate ..	362	226	176	—			
Sulphide ..	19	143	34	—			
Czechoslovakia—							
Barytes ..	(a)	(a)	(a)	(a)	(a)	—	35
Sulphate ..	(a)	(a)	(a)	(a)	(a)	35	50
France—							
Barytes ..	38	17	—	—	—	139	1,472
Witherite ..	(a)	(a)	—	—	—	21	82
Barium compounds ..	143	48	2	3	64	381	1,984
Germany—							
Barytes and celestite ..	32,129	21,544	18,311	(b) 12,883	} (a)	(a)	(a)
Witherite and strontianite	30	146	77	(b) 62			
Carbonate ..	4,074	3,438	2,590	(b) 1,357			
Chloride ..	1,768	640	2,076	(b) 808			
Nitrate ..	189	417	363	(b) 118			
Sulphate ..	3,966	5,425	6,063	(b) 4,128			
Greece—							
Barytes ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Italy—							
Sulphate ..	(a)	(a)	(a)	(a)	(a)	(a)	10,243
Netherlands—							
Barytes ..	3	3	3	(a)	(a)	—	16
Sweden—							
Barytes and witherite ..	—	—	—	—	15	—	689
Algeria—							
Barytes ..	748	821	424	267	561	4,480	17,045
Cuba—							
Barytes ..	15,967	3,727	3,108	8,089	228	(a)	(a)
United States—							
Witherite ..	(a)	49	5	26	(a)	(a)	(a)
Chile—							
Barytes ..	90	15	10	20	—	—	(a)

* For Lithopone, see "Zinc," pages 322-324.

(a) Information not available.

(b) January to July only.

IMPORTS OF BARIUM MINERALS, ETC.*

(Less Re-exports)

(Long tons)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Unground barytes ..	—	—	95	300	1,693	19,619	13,224
Ground barytes ..	(b) 1	569	2,620	4,304	3,968	15,059	17,673
Barium compounds, excluding blanc fixe ..	(b) 10	379	45	—	—	1	6
Eire—							
Ground barytes, including blanc fixe ..	461	22	11	1	—	4	6
Union of South Africa—							
Barytes ..	2,348	2,767	1,465	300	207	604	(a)
Carbonate and dioxide ..	193	45	121	128	105	311	(a)
Canada—							
Barytes ..	3,064	2,264	1,506	1,629	1,027	1,381	1,551
Blanc fixe ..	589	277	154	245	311	355	274
British West Indies—							
Trinidad and Tobago—							
Barytes ..	22,953	8,905	18,357	6,720	19,327	9,421	16,642
British India—							
Barytes ..	53	22	17	23	11	9	46
New Zealand—							
Barytes ..	(a)	(a)	(a)	(a)	1,156	1,551	505
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Barytes, including Iceland spar and cryolite ..	13,870	6,727	3,140	343	} (a)	(a)	(a)
Chloride ..	50	25	147	43			
Dioxide ..	1	—	—	—			
Sulphate ..	629	1,689	933	1,235			
Sulphide ..	76	142	153	197			
Bulgaria—							
Sulphate ..	6	1	1	—	(a)	(a)	(a)
Czechoslovakia—							
Unground barytes ..	} (a)	(a)	(a)	(a)	(a)	—	10
Ground barytes ..						—	—
Carbonate ..						—	2
Chloride ..						—	—
Sulphate ..						(a)	—	235
Denmark—							
Witherite and carbonate	259	159	205	269	100	135	53
Chloride ..	26	2	125	42	1	190	73
Sulphate ..	1,061	1,082	1,241	1,518	47	466	1,050
Finland (total imports)—							
Barytes ..	385	900	357	431	10	396	2
Chloride ..	52	—	15	15	1	63	128
Carbonate ..	31	35	49	32	10	76	25
Sulphate ..	155	66	33	21	7	43	35

* For Lithopone, see "Zinc," pages 325-328.

(a) Information not available.

(b) Excess of re-exports.

IMPORTS OF BARIUM MINERALS, ETC. (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
France—							
Barytes	522	583	119	242	175	1,197	8,015
Witherite	—	—	—	—	242	349	93
Chloride	1,094	260	76	51	63	434	45
Hydrate	—	33	17	—	—	2	11
Nitrate	32	80	128	11	—	4	—
Precipitated carbonate ..	909	574	632	230	25	806	850
Sulphate	287	921	1,433	310	30	328	552
Sulphide	9	85	119	3	14	46	50
Germany—							
Barytes and celestite ..	8,324	14,623	7,874	(b) 2,381	(a)	(a)	(a)
Witherite and strontianite	7	—	—	(b) —	(a)	(a)	(a)
Italy—							
Sulphate	(a)	(a)	(a)	(a)	(a)	(a)	10
Netherlands—							
Barytes	6,571	4,726	5,158	(a)	(a)	1,610	14,024
Blanc fixe	876	1,148	1,597	(a)	(a)	746	1,117
Poland—							
Carbonate	(a)	(a)	(a)	(a)	—	5	(a)
Portugal—							
Barytes	246	374	—	—	—	—	—
Carbonate	(a)	29	12	12	—	5	11
Chloride	65	10	35	—	130	75	46
Sulphate	91	20	8	12	31	83	79
Sweden—							
Barytes and witherite ..	1,747	2,345	1,170	2,268	3	968	2,557
Algeria—							
Barytes	27	4	—	2	48	139	69
Oxide, etc.	25	15	—	(a)	(a)	(a)	(a)
Mexico—							
Barytes	62	53	98	119	218	31	(a)
Witherite	3	5	57	50	67	111	(a)
Chloride	60	34	34	28	7	24	(a)
United States—							
Unground barytes	407	4,179	—	60,614	50,798	39,877	47,520
Ground barytes	—	—	—	10,682	1	—	(a)
Witherite	2,044	2,737	480	—	800	988	10
Sulphate	13	25	(c)	—	—	—	(a)
Barium compounds	268	319	173	—	90	—	64
Argentina—							
Barytes	1,941	1,079	683	15	—	1,099	(a)
Sulphate	547	255	431	61	63	623	(a)
Barium compounds	667	638	369	47	651	829	(a)
Brazil—							
Chloride	80	79	38	9	83	121	(a)
Sulphate	494	403	413	421	171	579	(a)
Chile—							
Sulphate	9	6	—	9	10	3	} (a)
Carbonate	10	—	—	6	15	29	
Chloride	42	8	21	—	101	103	
Oxides	5	47	31	44	32	16	
Columbia—							
Chloride	3	3	2	(a)	1	4	(a)
Sulphate	412	6	7	8	795	1,613	(a)

(a) Information not available.

(b) January to July only.

(c) Included with "Barium compounds."

IMPORTS OF BARIUM MINERALS, ETC. (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Peru—							
Barium compounds ..	94	48	99	74	65	33	(a)
Uruguay—							
Oxides	(a)	(a)	27	27	(a)	(a)	(a)
Sulphate	(a)	(a)	441	598	(a)	(a)	(a)
Venezuela—							
Sulphate	2,955	374	941	(a)	(a)	(a)	(a)
Japan—							
Barytes	13,000	13,000	13,000	7,000	5,000	(a)	(a)
Turkey—							
Barytes	(a)	(a)	(a)	—	4	98	37
Barium compounds ..	(a)	(a)	(a)	4	107	8	36

(a) Information not available.

BISMUTH

PRODUCTION OF BISMUTH ORE, ETC.*

(Cwt.)

Producing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Union of South Africa— Ore (<i>Bi content</i>) ..	7	3	37	16	12	14	—
Canada— Metal and content of bullion exported ..	67	3,103	3,639	1,106	1,695	2,147	2,647
Australia— Concentrates (<i>Bi content</i>)	14	15	113	70	64	25	63
FOREIGN COUNTRIES							
France— Mispickel (<i>Bi content</i>) ..	600	200	80	60	—	(a)	(a)
Metal	(a)	220	110	60	—	—	—
Spain— Ore	1,032	2,461	812	1,195	1,046	2,341	1,190
Sweden— Metal	—	—	—	—	—	245	216
Belgian Congo— Ore	(a)	(a)	(a)	(a)	(a)	(a)	1,146
Mexico— Ore (<i>Bi content</i>)	1,928	2,520	3,446	3,248	3,170	498	5,021
Argentina— Ore (<i>Bi content</i>) ..	91	341	500	(a)	(a)	(a)	(a)
Bolivia (exports)— Ore, etc. (<i>Bi content</i>) ..	445	175	244	12	302	549	1,651
Peru— Lead-silver bullion (<i>Bi content</i>)	3,506	333	—	—	—	1,765	60
Metal	5,451	7,361	9,506	8,192	6,052	4,366	4,602

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

(a) Information not available.

EXPORTS OF BISMUTH, ETC.

(Domestic Produce)

(Cwt.)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom— Bismuth	3	2	3	101	11	413	841
Union of South Africa— Bismuth	(a)	(a)	(a)	(a)	(a)	15	—
Hong Kong (including re- exports)— Ore	(a)	(a)	(a)	(a)	(a)	40	215
FOREIGN COUNTRIES							
France— Bismuth salts	61	43	—	(a)	—	45	63
Germany— Bismuth salts	1,230	1,215	652	(b) 79	(a)	(a)	(a)
Spain— Bismuth	10	—	6	—	—	—	—
Bismuth salts	20	202	86	1	—	—	—
Mexico— Bars, etc. (<i>Bi content</i>) ..	1,249	2,553	2,284	3,302	3,176	1,499	(a)
United States— Matte, residues, etc. ..	(a)	103	—	—	—	839	(a)
Metal and alloys	(a)	132	145	91	1,031	1,367	2,150
Salts	(a)	2,340	671	984	1,102	(a)	(a)
Bolivia— Ore, etc. (<i>Bi content</i>) ..	445	175	244	12	302	549	1,651
Chile— Bismuth	—	—	—	276	—	—	(a)
Salts	21	22	23	3	15	97	(a)
Peru— Bars, etc. (<i>Bi content</i>) ..	10,225	6,812	9,536	8,783	6,277	6,334	4,211

(a) Information not available.

(b) January to July only.

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

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Bismuth	7,327	9,015	8,564	7,021	1,990	3,171	3,055
Canada—							
Bismuth	1	—	—	—	—	—	—
Bismuth salts	(£2,797)	(£2,642)	(£3,522)	(£599)	(£2,531)	(£3,001)	(£1,730)
Hong Kong (total imports)—							
Ore	(a)	(a)	(a)	(a)	(a)	40	215
Australia—							
Bismuth salts	315	805	725	191	373	174	32
New Zealand—							
Bismuth and its salts (£ N.Z.)	(£6,415)	(£10,364)	(£14,180)	(£9,478)	(£44,447)	(£2,785)	(£1,386)
FOREIGN COUNTRIES							
France—							
Bismuth	8	—	—	—	1,181	2,057	1,728
Bismuth salts	—	75	33	—	—	463	30
Germany—							
Bismuth salts	108	2	2	(b) 6	(a)	(a)	(a)
Spain—							
Bismuth	—	—	—	—	—	30	—
Bismuth salts	192	54	86	156	87	186	16
Algeria—							
Bismuth salts	1	—	—	—	—	28	14
Mexico—							
Bismuth	1	28	5	7	6	5	(a)
Bismuth salts	390	224	38	57	124	71	(a)
United States—							
Bismuth	1,995	—	4,483	3,250	2,979	3,771	2,773
Argentina—							
Bismuth	26	33	18	17	} 126	57	(a)
Bismuth salts	14	5	12	15			
Chile—							
Ore	—	57	—	—	—	—	(a)
Bismuth	48	55	12	20	—	41	(a)
Bismuth salts	32	36	28	34	46	52	(a)
Colombia—							
Bismuth salts	77	82	33	(a)	42	25	(a)
Peru—							
Bismuth salts	25	2	24	19	30	27	(a)
Venezuela—							
Bismuth salts	57	137	88	(a)	(a)	(a)	(a)

(a) Information not available.

(b) January to July only.

BORATES

PRODUCTION OF CRUDE BORATES

(Long tons)

Producing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES							
Italy— Boric acid	6,473	6,016	(a)	(a)	(a)	4,255	4,907
United States— Borates	269,002	202,431	229,137	247,845	291,017	384,548	448,156
Argentina— Borate of calcium ..	13,546	4,685	6,844	5,471	—	(a)	(a)
Chile— Borate of calcium ..	(a)	(a)	(a)	2,286	1,169	1,454	(a)
Tibet (b)— Borax	402	501	335	(a)	(a)	(a)	(a)
Turkey— Borates	2,155	20	300	408	4,954	2,175	3,551

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

(a) Information not available.

(b) Imports into India from Tibet.

EXPORTS OF BORATES

(Domestic Produce)

(Long tons)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom							
Borax	887	262	282	202	349	1,606	172
Boric acid	390	182	134	92	85	574	118
British India—							
Borax	32	—	—	—	—	—	—
Hong Kong (including re-exports)—							
Borax	(a)	(a)	(a)	(a)	(a)	483	383
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Borates	204	30	4	—	} (a)	(a)	(a)
Borax	10	3	—	—			
France—							
Borax, borates and boric acid	10	278	30	—	6	683	1,070
Germany—							
Borax and boric acid ..	180	61	49	(b) 25	(a)	(a)	(a)
Netherlands—							
Borax	1	1	1	(a)	(a)	49	(a)
Sweden—							
Borax and boric acid ..	1	3	1	50	140	10	8
Switzerland—							
Borax	—	—	—	—	—	41	220
United States—							
Borates and borax ..	37,315	32,626	24,115	29,244	} 38,908	47,592	76,550
Perborate of sodium ..	(a)	291	271	43			
Boric acid	6,821	8,555	5,408	8,942				5,504	6,468	8,540
Argentina—							
Borates of calcium and soda	9,916	1,891	1,459	1,014	218	478	(a)
Tibet (c)—							
Borax	402	501	335	(a)	(a)	(a)	(a)
Turkey—							
Borates	—	—	—	—	2,000	3,000	6,265

(a) Information not available.

(b) January to July only.

(c) Imports into India from Tibet.

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

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Borates	12,340	14,470	5,669	11,638	10,937	9,431	14,925
Borax	4,270	7,358	1,176	7,070	3,520	4,007	9,649
Boric acid	3,552	4,829	1,019	3,552	1,491	224	2,716
Eire—							
Borax	199	150	120	151	151	206	136
Boric acid	67	70	45	54	63	108	112
Southern Rhodesia—							
Borax	86	67	113	9	37	32	93
Boric acid	(a)	(a)	(a)	(a)	(a)	2	3
Union of South Africa—							
Borax	591	364	529	379	391	646	(a)
Boric acid	257	165	443	122	126	178	(a)
Canada—							
Borax	4,778	4,722	4,233	4,272	4,778	6,479	8,442
Boric acid	877	1,096	999	1,063	1,364	1,093	1,394
Aden—							
Borax	—	16	—	—	1	6	6
British India—							
Borax (b)	2,233	2,583	2,367	2,413	(d) 1,721	(d) 1,828	(d)(e) 6,765
Burma—							
Borax	(a)	(a)	(a)	(a)	(a)	(c) 2	(a)
Hong Kong (total imports)—							
Borax	(a)	(a)	(a)	(a)	(a)	1,104	965
Australia—							
Borax	35	—	—	1,217	922	1,227	2,427
Boric acid	1,258	640	432	518	588	268	1,073
New Zealand—							
Borax	78	27	509	19	4	29	93
Boric acid	69	98	186	72	1	11	36
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Borates	—	—	—	—	—	—	—
Borax	45	10	1	3	} (a)	(a)	(a)
Boric acid	28	9	23	—			
Perborate of sodium	8	—	—	—			
Bulgaria—							
Borax and boric acid	100	134	89	—	(a)	(a)	(a)
Czechoslovakia—							
Borax	} (a)	(a)	(a)	(a)	(a)	{ 352	227
Boric acid .. .. .								107	315
Denmark—							
Borax	38	107	28	11	21	152	70
Borates and perborates	413	9	5	—	—	305	478
Boric acid	75	17	37	—	22	259	145
Finland (total imports)—							
Borax	79	24	48	10	39	344	293
Boric acid	50	10	25	—	24	57	16
France—							
Borates	845	2	—	—	3,380	3,878	7,232
Borax	917	45	32	—	531	3,279	984
Borate of manganese	—	—	—	—	—	6	—
Boric acid	191	10	1	6	75	840	285

(a) Information not available.

(b) Includes trade by land as recorded.

(c) February to September only.

(d) Sea-borne trade only.

(e) January to November only.

IMPORTS OF BORATES (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Germany—							
Borates	57	90	558	(b) 30	(a)	(a)	(a)
Borax and boric acid ..	545	436	354	(b) 1,266	(a)	(a)	(a)
Netherlands—							
Borax	95	49	1	(a)	(a)	2,164	4,519
Norway—							
Borax	13	4	1	1	284	128	(a)
Boric acid	4	2	—	55	19	83	(a)
Portugal—							
Borates	227	282	447	574	232	438	846
Boric acid	60	52	85	85	43	141	170
Spain—							
Borates	33	50	50	148	84	11	5
Boric acid	241	270	353	176	400	307	83
Sweden—							
Borax	463	788	929	252	828	1,172	3,024
Boric acid	194	227	105	225	150	474	412
Switzerland—							
Borax	383	164	287	38	1,863	4,243	1,834
Algeria—							
Borax and boric acid ..	4	14	15	6	21	54	19
Egypt—							
Borax	214	107	107	97	368	111	(a)
Boric acid	39	15	8	35	121	24	(a)
Mozambique—							
Borax	—	1	1	2	4	(a)	(a)
Tunis—							
Borax	2	35	—	8	18	9	1
Boric acid	—	22	—	10	5	2	28
Mexico—							
Borax	1,108	1,383	1,041	1,356	1,490	2,095	(a)
Boric acid	101	110	115	159	134	256	(a)
Argentina—							
Borax	4	5	2	—	51	5	(a)
Boric acid	—	2	1	1	1	2	(a)
Brazil (total imports)—							
Borates	248	103	63	235	48	58	(a)
Borax	1,056	1,374	145	1,875	1,043	1,160	(a)
Boric acid	105	200	25	300	217	91	(a)
Chile—							
Borates	29	51	34	34	34	28	(a)
Boric acid	1	—	—	1	1	3	(a)
Colombia—							
Borates	180	197	249	102	146	99	(a)
Perborate of sodium ..	25	3	100	(a)	—	8	(a)
Boric acid	49	96	73	44	85	25	(a)
Peru—							
Borax	71	92	22	77	76	142	(a)
Uruguay—							
Borate of calcium ..	(a)	(a)	117	100	(a)	(a)	(a)
Venezuela—							
Borax	7	14	32	(a)	(a)	(a)	(a)
Boric acid	34	27	25	(a)	(a)	(a)	(a)
Japan (total imports)—							
Borax	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Syria and Lebanon—							
Borax	—	—	2	(a)	1	—	(a)
Boric acid	—	1	1	(a)	7	—	(a)

(a) Information not available.

(b) January to July only.

BROMINE
PRODUCTION OF BROMINE
 (lb. avdp.)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Palestine (c)	1,709,000	3,957,000	3,142,000	1,342,000	835,100	108,000	585,000
FOREIGN COUNTRIES							
France	430,000	1,537,000	381,000	642,000	(a)	(b)1,745,000	1,506,000
Italy	831,000	(a)	(a)	(a)	(a)	(a)	(a)
United States (c)	68,317,019	65,880,935	94,085,937	102,112,462	79,709,857	42,783,327	78,177,650
Japan	507,000	661,000	728,000	750,000	(a)	(a)	(a)

(a) Information not available.

(b) Sales.

(c) Includes bromine content of compounds.

EXPORTS OF BROMINE, ETC.

(Domestic Produce)

(lb. avdp.)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Bromine	560	1,120	1,340	340	220	31,360	8,736
Bromide of iron	—	2,500	—	—	—	(c)	(c)
Ethyl bromide	73	113	2	31	—	—	—
Other bromides	125,700	326,600	134,300	64,800	101,900	352,500	276,304
Palestine—							
Bromine	(a)	117,700	500	17,600	143,300	127,200	(a)
Bromides	(a)	(a)	(a)	(a)	1,032,000	92,000	(a)
FOREIGN COUNTRIES							
France—							
Bromine	1,069,900	385,800	61,300	33,500	23,600	380,500	722,900
Bromides	50,000	19,000	35,300	13,900	47,200	177,300	851,000
Germany—							
Bromine	74,700	73,400	71,700	(b) 13,900	(a)	(a)	(a)
Bromides	714,700	1,052,700	1,524,500	(b) 338,200	(a)	(a)	(a)
United States—							
Bromine	} 1,474,174	180,029	10,566	29,391	178,041	} 2,170,136	} 1,792,269
Bromide of potash		518,958	307,334	277,197	551,736		
do. soda		2,747,504	2,567,995	877,128	177,768		
Ethyl dibromide		237,610	3,734,900	197,500	296,952		
Other bromides and bromates		93,488	303,526	556,872	328,924		

(a) Information not available.

(b) January to July only.

(c) Included with "Other bromides."

IMPORTS OF BROMINE, ETC.

(Less Re-exports)

(lb. avdp.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Bromine	928,000	199,000	—	11,000	94,000	181,000	746,000
Bromides	180,000	1,826,000	4,777,000	1,997,000	1,263,000	214,000	(c) 6,000
Union of South Africa—							
Bromine	184	4	78	473	288	256	(a)
Canada—							
Bromine	96,033	63,720	4,556	6,326	3,332	16,786	8,742
Bromides	—	—	—	—	29,000	57,100	54,250
Australia (years ended June 30)—							
Bromine	} 266,946	160,711	167,855	71,683	240,125	{ (£107) 93,556	(£745) 136,052
Bromates and bromides..							
FOREIGN COUNTRIES							
Belgium-Luxemburg E. U.—							
Bromine	8,400	7,900	5,500	14,000	(a)	(a)	(a)
Bulgaria—							
Bromine	952	1,435	381	227	(a)	(a)	(a)
Czechoslovakia—							
Bromine	(a)	(a)	(a)	(a)	(a)	—	205
France—							
Bromides	—	—	—	—	—	—	220
Ethyl bromide, etc. ..	—	—	—	—	—	14,771	—
Germany—							
Bromine	—	—	14,300	(b) 15,500	(a)	(a)	(a)
Norway—							
Bromine	220	884	212	93	1,091	531	(a)
Portugal—							
Bromine	683	1,365	383	392	7	408	328
Bromide of soda	3,380	6,889	8,161	1,598	836	1,462	1,863
Bromide of potash .. .	8,466	14,220	10,498	4,650	465	1,127	1,887
Bromide of ammonium..	1,435	12,461	915	672	278	344	157
Spain—							
Bromine	240	2,820	3,190	1,616	772	3,948	4,969
Bromides	73,798	182,071	103,518	5,368	1,797	13,135	13,803
Algeria—							
Bromine	220	—	—	220	220	—	—
Bromides	1,984	1,984	1,102	6,613	31,967	21,605	25,133
Mexico—							
Bromine	269	2,956	2,921	3,926	1,177	1,188	(a)
Bromides of potash and soda	36,652	34,471	20,527	26,248	14,707	12,548	(a)
United States—							
Bromine and compounds	3,285	2,092	63	165	(a)	(a)	131
Argentina—							
Bromine and bromides ..	6,947	29,473	11,164	1,806	4,733	23,395	(a)
Chile—							
Bromine	459	456	498	234	646	666	(a)
Bromide of strontium ..	192	921	—	126	64	15	(a)
Peru—							
Bromine	115	198	276	1,213	150	216	(a)
Turkey—							
Bromine	(a)	(a)	(a)	51	203	84	730
Bromides	(a)	(a)	(a)	11,058	2,121	1,217	6,118

(a) Information not available.

(b) January to July only.

(c) Excess of re-exports.

CADMIUM

PRODUCTION OF CADMIUM

(lb. avdp.)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom	327,000	351,053	417,178	455,347	491,100	268,800	234,662
South West Africa (c) ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Canada	1,251,291	1,148,963	786,611	526,970	646,064	802,648	718,534
Australia (f)	455,907	366,374	400,557	598,797	542,237	511,280	460,835
FOREIGN COUNTRIES							
Belgium	(a)	(a)	(a)	(a)	(a)	(a)	(a)
France	(e) 44,092	(e) 22,046	22,000	11,600	15,400	103,600	(a)
Germany	820,000	536,000	608,000	461,000	(a)	(a)	(a)
Italy	405,646	271,000	157,000	86,000	64,000	55,000	86,000
Norway	55,221	29,723	25,033	23,400	28,700	61,700	110,200
Poland	520,000	511,000	485,000	430,000	108,000	256,000	(g) 157,000
Belgian Congo	6,692	60,000	50,899	48,483	40,153	36,533	57,408
Mexico (b)	1,998,660	1,883,310	1,768,072	1,545,447	2,321,467	1,581,129	1,717,125
United States (d)—							
Metal	6,937,931	7,323,346	8,396,292	8,453,470	7,932,579	6,200,398	7,852,907
Compounds (metal content)	295,600	47,623	70,671	326,386	451,050	270,789	500,859
Peru	—	—	8,818	22,046	20,547	1,874	3,102
Japan	(a)	225,000	247,000	187,000	(a)	(a)	(a)

Cadmium is also produced in the Netherlands, Sweden and U.S.S.R.

(a) Information not available.

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

(c) Estimated cadmium content of flue dust produced during the years ended March 31.

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

1941	.. ..	379,500 lbs.
1942	.. ..	316,345 ..
1943	.. ..	162,424 ..
1944	.. ..	106,850 ..
1945	.. ..	72,473 ..
1946	.. ..	355,104 ..
1947	.. ..	104,764 ..

(e) American Bureau of Metal Statistics.

(f) Revised.

(g) January to July only.

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

Exporting Country	1941	1942	1943	1944	1945	1946	1947	
BRITISH COUNTRIES								
United Kingdom—								
Metal	15,343	287	784	—	112,100	82,706	4,717	
Compounds	(a)	(a)	(a)	(a)	(a)	301,600	(a)	
South West Africa (d)	328,621	—	—	(a)	(a)	(a)	(a)	
Canada	910,329	800,710	572,215	383,324	350,744	573,368	622,891	
Australia	356,944	130,928	160,496	200,256	507,472	363,440	267,565	
FOREIGN COUNTRIES								
Belgium-Luxemburg E.U.	51,100	88,600	70,100	2,400	(a)	(a)	(a)	
France	—	—	—	—	2	220	102	
Poland	(a)	(a)	(a)	(a)	88,184	220,462	(a)	
Belgian Congo (c)	—	53,298	40,355	53,082	25,798	(a)	(a)	
Mexico (b)	1,989,564	1,883,329	1,768,089	1,630,761	2,320,951	1,581,128	(a)	
United States—								
Metal	} (a)	} 100,939	156,844	548,015	102,199	140,385	303,401	
Alloys			546	72,535	450	3	75	(a)
Cadmium salts			76,825	19,307	23,488	10,895	(a)	(a)
Dross, flue dust, etc.			(a)	520	2,686,360	2,333,720	459,775	18,251
Peru			—	—	8,523	4,793	2,247	5,428

(a) Information not available.

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

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

(d) Cadmium content of flue dust exported for treatment during years ended March 31 following that stated.

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

Importing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Cadmium	1,194,634	996,779	228,945	430,994	699,636	767,993	781,282
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.	1,500	—	—	1,800	(a)	(a)	(a)
France—							
Cadmium	26,900	78,500	42,100	(a)	120,152	925,941	490,528
Cadmium salts	16,100	16,500	6,200	24,700	—	10,362	17,637
Sweden	57,589	84,071	92,316	59,210	43,286	142,679	127,288
United States—							
Cadmium	147,378	53,298	48,891	66,627	28,724	17,415	18,762
Flue dust (cadmium content)	2,321,426	1,723,728	1,643,404	1,689,322	2,192,685	1,652,905	2,355,588
Argentina (cadmium and salts)	3,968	1,188	71	7	60	7,348	(a)
Chile (cadmium and salts)	62	60	88	35	18	77	(a)
Peru (cadmium salts)	282	198	17	143	13	1,100	(a)
Turkey—							
Cadmium	(a)	(a)	(a)	88	—	15	108
Cadmium salts	(a)	(a)	(a)	11	115	170	659

(a) Information not available.

CHINA CLAY
PRODUCTION OF CHINA CLAY
(Long tons)

Producing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Great Britain	250,007	195,906	177,617	192,871	234,999	406,379	513,792
Kenya (d)	(a)	(a)	1,388	3,457	1,627	1,372	306
Northern Rhodesia	—	—	4	1	—	—	—
Southern Rhodesia	16	130	56	119	9	—	—
Tanganyika Territory	—	37	113	219	296	180	234
Union of South Africa	5,313	6,179	5,637	4,360	4,429	5,379	4,390
Canada (sales)	2	364	83	379	398	733	—
India	37,056	58,028	39,613	46,471	67,285	74,701	(a)
Malaya	(c) 823	—	—	—	—	241	1,003
Australia (h)	9,091	8,750	7,194	9,704	9,380	12,205	9,902
New Zealand	—	—	—	—	—	95	1,353
FOREIGN COUNTRIES							
Austria	(a)	(a)	(a)	115,060	(a)	46,462	75,178
Bulgaria	15,108	(a)	(a)	(a)	(a)	(a)	(a)
Czechoslovakia (estimated)	(a)	(a)	(a)	(a)	(a)	(a)	120,000
Denmark—							
Crude	8,100	9,000	11,200	10,900	6,900	4,400	4,875
Washed and pressed	8,600	8,100	9,350	8,760	6,600	5,200	} 10,916
Washed and unpressed	—	—	—	—	—	800	
Washed waste	5,800	6,000	5,100	5,800	3,300	3,700	
France	(a)	62,940	50,040	23,607	29,779	95,655	(a)
Germany—							
Bavaria	(a)	(a)	} (a)	(a)	(a)	(a)	(a)
Prussia	96,499	80,983					
Saxony	82,210	291,702					
Italy—							
Crude and kaolinic earth	} 189,678	(a)	(a)	(a)	(a)	(a)	(a)
Washed		—	—	—	—	—	—
Portugal—							
Washed	2,658	2,795	1,967	(a)	3,769	13,478	15,050
Kaolinic sand (b)	(a)	1,429	1,440	(a)	237	232	374
Spain—							
Crude	8,614	16,314	13,989	13,486	25,840	29,881	15,728
Kaolinic sand (e)	5,800	11,000	—	(a)	(a)	(a)	(a)
Sweden	2,625	2,722	5,128	4,177	6,516	8,183	9,271
Algeria	(a)	(a)	(a)	945	1,210	14	282
Egypt	128	349	530	682	504	215	150
Madagascar	—	31	41	27	65	47	158
Morocco (Spanish)	(a)	(a)	(a)	(a)	1,860	(a)	(a)
Mozambique	—	—	—	—	—	18	—
United States (f)	971,293	845,168	829,855	779,514	839,275	1,180,628	1,272,416
Argentina	6,422	9,001	7,990	(a)	(a)	(a)	(a)
Brazil	(a)	12,541	(a)	(a)	(a)	(a)	(a)
Chile	—	2,004	(a)	331	3,545	6,362	8,440
Peru (f)	—	—	—	333	614	870	1,479
Portuguese India (exports)	—	109	72	48	367	227	(a)
Transjordan (exports)	437	979	2,423	2,168	(a)	(a)	(a)

China clay is also produced in Belgium, Greece, Roumania, U.S.S.R., China, Japan, Korea, Manchuria and Netherlands East Indies.

(a) Information not available.

(b) Kaolin content.

(c) January to September only.

(d) Including other clays.

(e) Converted from cubic metres at the rate of 1 cubic metre = 2 long tons.

(f) Sales.

(g) Crude.

(h) Excluding South Australia.

EXPORTS OF CHINA CLAY

(Domestic Produce)

(Long tons)

Exporting Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom	116,622	99,255	66,520	61,927	115,954	210,896	248,862
Tanganyika Territory	—	20	53	98	267	88	164
Malaya (b)	(a)	(a)	(a)	(a)	(a)	13	8
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.	289	853	2,520	246	(a)	(a)	(a)
Czechoslovakia	(a)	(a)	(a)	(a)	(a)	28,451	56,351
Denmark	339	313	1,620	1,959	615	89	163
France	12,584	9,196	4,231	2,466	272	6,531	10,583
Germany	88,843	110,304	114,128	(c) 56,274	(a)	(a)	(a)
Italy	(a)	(a)	(a)	(a)	(a)	(a)	18
Portugal	2,237	4,704	2,688	135	36	6,417	9,773
Spain	83	265	159	25	22	4	—
Sweden	—	—	—	—	3,033	3,990	3,404
Algeria	774	297	—	2	—	—	193
Morocco (Spanish)	(a)	(a)	(a)	(a)	1,860	(a)	(a)
United States	(a)	(a)	(a)	(a)	(a)	(a)	16,666
Argentina	3	4	17	—	97	5	(a)
Brazil	1,227	1,731	1,037	674	63	3	(a)
Chile	373	2,004	2,347	872	628	317	(a)
Portuguese India	—	109	72	48	367	227	(a)
Transjordan	437	979	2,423	2,168	(a)	(a)	(a)

(a) Information not available.

(b) Including re-exports.

(c) January to July only.

IMPORTS OF CHINA CLAY

(Less Re-exports)

(Long tons)

Importing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom	—	—	—	—	—	(d) 18	(d) 157
Union of South Africa (b) ..	258	107	39	22	148	365	(a) 958
Canada	40,239	41,288	30,090	51,358	56,839	54,609	71,422
Newfoundland (e)	(a)	(a)	(a)	(a)	(a)	—	701
British India	4,532	5,036	183	228	333	315	(f) 12
Malaya (total imports)	(a)	(a)	(a)	(a)	(a)	28	—
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.	10,595	13,764	16,011	5,652	(a)	(a)	(a) 30
Czechoslovakia	(a)	(a)	(a)	(a)	(a)	—	—
Denmark—							
Crude	487	320	254	198	—	1,006	2,594
Washed	2,039	3,379	2,824	3,506	384	8,594	13,538
Finland (total imports)	5,491	10,769	13,820	10,255	11,665	19,435	24,883
France	1,677	1,588	1,584	310	14	271	9,641
Germany	14,632	11,197	5,482	(c) 2,236	(a)	(a)	(a)
Italy	11,993	21,903	(a)	(a)	(a)	(a)	1,458
Norway	2,910	2,673	2,769	2,569	2,940	10,791	15,503
Portugal	32	62	52	66	104	101	107
Spain	2,456	5,940	3,476	571	294	511	51
Sweden	12,862	16,745	20,460	16,368	16,341	32,084	33,841
Algeria	50	52	—	3	—	94	88
United States	76,019	56,498	49,612	40,973	51,337	79,672	73,757
Argentina	4,906	4,236	5,896	3,713	2,455	4,878	(a)
Chile	32	7	16	30	92	24	(a)
Colombia	31	8	41	(a)	55	21	(a)
Peru	78	103	39	88	29	71	(a)
Uruguay	(a)	(a)	619	1,051	(a)	(a)	(a)
Japan	(a)	(a)	(a)	(a)	(a)	(a)	94
Turkey	(a)	(a)	(a)	15	29	133	317

(a) Information not available.

(b) Including Cornish or china stone.

(c) January to July only.

(d) Including Ball clay.

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

(f) January to November only.

CHROME ORE AND CHROMIUM

PRODUCTION OF CHROME ORE

(Long tons)

Producing Country	1941	1942	1943	1944	1945	1946	1947	Estimated Cr ₂ O ₃ content*						
								1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES														
Great Britain	935	512	289	114	—	—	—	(a)	(a)	(a)	(a)	—	—	—
Sierra Leone	13,687	10,557	16,048	9,695	569	10,138	16,504	5,900	4,500	6,800	4,100	240	4,300	7,000
Southern Rhodesia ..	318,821	342,815	282,914	272,677	183,377	149,043	152,699	153,000	165,000	136,000	131,000	88,000	72,000	73,000
Union of South Africa ..	139,644	332,289	160,654	87,505	97,526	208,902	367,204	63,538	149,165	72,300	40,600	45,100	95,405	167,000
Canada	2,118	10,228	26,424	24,155	5,138	2,777	1,786	1,000	4,800	12,400	11,400	2,400	1,300	800
Cyprus	—	15,786	480	—	3,240	5,596	7,418	—	7,600	230	—	1,600	2,700	3,600
India	50,135	49,584	33,255	39,355	31,142	44,792	(a)	25,000	24,800	16,600	20,000	15,500	22,400	(a)
Australia	350	359	986	768	282	—	—	140	140	350	270	110	—	—
TOTAL	525,700	762,100	521,000	434,300	321,300	421,200	595,000							
FOREIGN COUNTRIES														
Albania	12,170	37,200	(c) 30,600	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Bulgaria	4,950	5,000	5,000	5,000	—	—	—	(a)	(a)	(a)	(a)	—	—	(a)
Greece	16,080	23,900	15,300	18,000	2,375	8,400	—	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Portugal	—	1,255	1,247	1,093	1,643	602	210	—	501	498	436	655	241	84
Sweden	—	79	220	125	—	—	—	—	34	60	34	—	—	—
U.S.S.R. (estimated) ..	(a)	(d) 400,000	(d) 325,000	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Yugoslavia	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Egypt	—	307	896	148	148	—	262	—	129	376	70	70	—	110
Cuba	160,598	261,846	304,297	208,457	188,646	161,586	108,619	60,000	87,000	105,000	61,000	(a)	(a)	(a)
Guatemala	686	521	368	95	435	600	615	370	280	190	40	208	300	300
Mexico	12	17	—	—	—	—	—	(a)	(a)	—	—	—	—	—
United States	12,731	100,782	142,964	40,740	12,476	3,667	846	5,500	40,000	60,000	18,000	5,700	1,600	280
Argentina	59	207	246	178	2,953	(a)	(a)	21	46	83	(a)	(a)	(a)	(a)
Brazil (exports)	4,354	5,685	7,690	4,647	1,466	171	(a)	1,800	2,000	3,200	2,000	(a)	(a)	(a)
French Indo-China	—	3,514	6,400	2,300	—	—	—	—	(a)	(a)	(a)	—	—	—
Japan	53,649	66,473	57,596	70,012	42,827	4,358	2,825	(a)	(a)	(a)	(a)	(a)	1,900	1,300
Philippine Islands	(b) 329,243	(e) 32,782	(e) 37,353	(e) 15,236	(e) 3,474	57,000	(a)	158,000	(a)	(a)	(a)	(a)	(a)	(a)
Turkey	147,758	137,991	158,229	181,658	144,676	101,538	197,000	66,500	62,000	71,000	82,000	65,000	46,000	89,000
New Caledonia	63,490	66,542	46,210	54,357	58,883	24,556	49,732	30,000	32,000	29,000	34,000	31,000	13,000	25,000
TOTAL	1,100,000	1,200,000	1,200,000	1,000,000	800,000	750,000	750,000							
World's TOTAL	1,600,000	2,000,000	1,800,000	1,400,000	1,100,000	1,150,000	1,345,000							

* 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) Ten months only. (c) January to September only. (d) Planned production. (e) Imports into Japan from Philippine Islands.

EXPORTS OF CHROME ORE, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Chromium metal	49	20	29	—	86	37	8
Ferro-chrome	9	5	3	—	42	85	57
Chromates of potash	292	104	63	133	238	460	(a)
Chromates of soda	1,882	1,524	2,009	1,657	1,403	1,678	(a)
Sierra Leone—							
Ore	14,892	16	—	—	11,595	31,301	22,687
Southern Rhodesia—							
Ore	308,362	342,555	262,068	267,336	204,443	149,557	160,372
Union of South Africa—							
Ore	207,495	265,519	96,736	50,502	171,279	238,668	291,547
Canada—							
Ferro-chrome	(a)	(a)	(a)	(a)	(a)	5,604	24,762
British India (b)—							
Ore	51,321	52,366	23,055	22,196	10,528	16,448	(e) 27,725
Cyprus—							
Ore and concentrates	4,740	2,890	7,860	462	1,054	1,140	5,200
Australia—							
Ore	7	—	—	—	—	5	—
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Chromates of potash and soda	83	5	37	—	(a)	(a)	(a)
France—							
Ore	329	2,124	—	(a)	—	—	—
Ferro-chrome	2	1,160	29	10	1	39	37
Chromates, chrome alum, etc.	52	65	—	(a)	2	119	310
Germany—							
Chromates of potash and soda, and oxides of chromium	843	415	895	(c) 645	(a)	(a)	(a)
Netherlands—							
Chromium compounds	—	9	—	(a)	(a)	—	(a)
Norway—							
Ferro-chrome	6,165	2,219	6,167	5,226	623	4,492	11,487
Portugal—							
Ore	(a)	1,166	1,173	704	1,050	918	801
Sweden—							
Ore	200	46	—	—	—	202	20
Ferro-chrome	5,216	878	15	—	177	1,952	3,649
Chromates and chrome alum	128	389	521	357	832	1,501	3,533
Switzerland—							
Ferro-chrome, including ferro-silicon	773	105	21	597	2	77	540
U.S.S.R.—							
Ore (d)	16,435	41,151	89,216	100,282	160,046	(a)	(a)

(a) Information not available.

(b) Excluding chrome ore mined in British India, but exported via the Portuguese port of Mormugao—1941, 2,200 tons—1942, 3,500 tons—1943, 407 tons.

(c) January to July only.

(d) 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.

(e) January to November only.

EXPORTS OF CHROME ORE, ETC. (Cont.)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Cuba—							
Ore	160,598	139,543	285,979	316,267	270,010	173,065	100,135
United States—							
Ore	(a)	4,235	23,445	910	11,041	1,927	3,067
Ferro-chrome	(a)	4,982	2,107	475	1,313	2,241	2,751
Chromate of potash	1,983	1,154	1,050	554	665	(a)	1,000
Chromates of soda	7,670	7,108	5,271	2,810	3,325	8,491	(a)
Brazil—							
Ore	4,354	5,685	7,690	4,647	1,466	171	—
Philippine Islands—							
Ore (b)	49,849	32,783	37,352	15,236	3,474	(a)	(a)
Turkey—							
Ore	148,000	142,000	78,000	146,831	61,692	35,756	180,874
New Caledonia—							
Ore	100,342	84,758	42,330	16,981	50,147	63,619	43,062

(a) Information not available.

(b) Imports into Japan from Philippine Islands.

IMPORTS OF CHROME ORE, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Ore	55,974	99,634	36,627	93,770	42,887	65,753	87,773
Ferro-chrome	26,897	16,890	28,254	11,274	2,999	3,683	20,815
Chromates of soda ..	—	52	—	—	—	1	(a)
Canada—							
Ore	82,993	78,240	92,385	34,901	54,188	14,139	87,788
Bichromate of potash ..	138	177	92	78	94	117	142
Bichromate of soda ..	1,793	2,357	1,435	1,431	1,843	2,146	2,035
British India (total imports)—							
Bichromate of potash ..	149	5	—	22	7	—	(a)
Bichromate of soda ..	3,105	1,661	1,593	1,996	—	—	(a)
Palestine—							
Ore	—	—	—	—	809	—	(a)
Australia—							
Ore	12,013	5,589	24,619	—	2,391	—	1,360
Bichromate of potash ..	67	79	22	74	125	61	5
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Chromates of potash and soda	84	10	4	6	(a)	(a)	(a)
Bulgaria—							
Chromates of potash ..	24	17	32	37	—	—	—
Czechoslovakia—							
Ore						3,357	2,935
Chromates of potash and soda	(a)	(a)	(a)	(a)	(a)	33	310
Denmark—							
Chromates of potash and soda	39	12	35	184	114	375	105
Finland (total imports)—							
Ferro-chrome	30	60	29	26	59	157	132
Chromates of potash and soda	44	17	32	84	2	150	150
Chrome sulphate ..	261	190	207	60	—	155	156
France—							
Ore	—	—	578	775	8,496	45,978	42,365
Ferro-chrome	1	4	286	355	507	134	832
Chromates of potash and soda	56	30	2	2	39	108	65
Other chromates ..	11	3	—	—	10	45	951
Chrome alum	10	7	—	—	—	30	37
Germany—							
Ore	25,011	163,185	180,843	(c) 64,027	(a)	(a)	(a)
Chromates of potash and soda, and oxides of chromium	50	—	—	(c) —	(a)	(a)	(a)
Italy—							
Ore	10,393	37,725	19,487	(a)	(a)	2,950	2,923
Ferro-chrome	1,383	1,522	70	(a)	—	116	80
Netherlands—							
Chromium compounds	502	78	419	(a)	(a)	900	1,702

(a) Information not available.

(b) April to December only.

(c) January to July only.

IMPORTS OF CHROME ORE, ETC. (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Norway—							
Ore	49	4,897	18,052	18,892	—	9,571	51,088
Portugal—							
Chromates of potash and soda	73	12	13	16	48	348	79
Chrome alum	3	1	19	25	13	43	32
Spain—							
Chromates	398	13	150	48	112	329	59
Sweden—							
Ore	2,829	10	165	34	12,947	45,357	56,258
Ferro-chrome	396	111	35	25	16	725	1,116
Chrome alum	35	10	—	—	—	6	19
Chromates	275	6	113	166	123	532	315
Switzerland—							
Ferro-chrome and ferro-silicon	762	234	173	94	127	2,260	2,769
Egypt—							
Chromates of potash and soda	803	323	232	139	193	632	(a)
United States—							
Ore	995,796	876,435	(c) 829,085	757,491	816,754	676,242	987,660
(Cr ₂ O ₃ content)	445,898	402,154	361,037	325,699	357,805	296,836	433,921
Ferro-chrome (Cr content)	106	342	279	703	(a)	(a)	5,759
Metal and alloys	—	—	—	—	(a)	(a)	99
Argentina—							
Bichromate of potash	281	233	72	8	2	88	(a)
Bichromate of soda	654	744	265	282	881	652	(a)
Chromate of lead	78	39	67	2	120	164	(a)
Chrome alum	—	11	—	—	64	53	(a)
Brazil—							
Chromates of potash and soda	1,415	659	621	260	300	1,477	(a)
Other chromium salts	18	12	7	26	46	125	(a)
Chile—							
Ferro-chrome	9	64	23	16	11	22	(a)
Bichromate of potash	64	42	64	10	10	86	(a)
Bichromate of soda	309	221	300	115	154	518	(a)
Colombia—							
Chromates	215	115	761	219	110	119	(a)
Peru—							
Chromium compounds	120	274	296	235	115	210	(a)
Japan—							
Ore	50,440	32,783	39,205	18,228	3,474	(a)	(a)
Turkey—							
Chrome alum	(a)	(a)	(a)	—	67	—	(a)

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

(c) Total imports. Re-exports amounted to 8,993 tons (Cr₂O₃ content not available).

COAL, COKE AND BY-PRODUCTS

PRODUCTION OF COAL
(Including Brown Coal and Lignite)

(Long tons)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Great Britain—							
Mined—							
Anthracite	4,331,921	4,282,591	4,130,378	3,595,178	3,162,645	3,525,550	3,599,250
Bituminous	202,012,396	199,350,847	190,362,570	180,503,176	171,495,258	177,717,403	183,603,569
Opencast	—	1,308,200	4,426,700	8,647,300	8,114,800	8,822,400	(f)10,390,758
Northern Ireland—							
Anthracite	—	—	—	—	—	—	1,300
Bituminous	416	410	480	550	680	640	—
Lignite	826	1,463	1,273	1,660	2,546	174	386
Eire—							
Anthracite	} 103,214	63,156	47,020	65,535	53,121	56,943	48,723
do. dust		51,297	74,418	62,606	68,397	63,779	71,266
Semi-bituminous		49,629	50,312	61,886	74,122	90,962	90,553
Nigeria	366,506	460,719	505,535	613,926	512,552	607,652	579,354
Southern Rhodesia	1,389,677	1,535,934	1,759,539	1,779,177	1,642,485	1,587,243	1,587,243
Union of South Africa	18,384,053	20,085,381	20,236,091	22,623,857	23,182,397	23,229,292	23,441,892
Canada—							
Bituminous (b)	12,974,877	13,234,134	11,927,379	11,596,721	10,512,646	11,474,433	9,873,496
Sub-bituminous (b)	2,117,009	2,446,803	2,529,841	2,379,826	2,856,745	3,068,654	2,886,103
Lignite (b)	1,182,151	1,162,840	1,488,367	1,225,684	1,368,746	1,360,258	1,401,542
India—							
Gondwana Coalfields	28,956,602	28,951,796	25,057,215	25,505,170	28,500,110	28,945,505	} 26,918,460
Tertiary Coalfields	507,140	481,457	454,894	621,506	667,042	763,841	
Malaya	(c) 514,973	244,590	489,442	409,100	226,702	224,674	226,301
Australia—							
Bituminous	14,212,451	14,378,839	14,192,942	13,721,468	12,812,368	13,776,383	14,663,157
Sub-bituminous	—	1,650	—	34,620	41,452	135,460	193,351
Lignite	4,565,638	4,933,861	5,091,729	5,016,437	5,445,108	5,707,039	6,140,173
New Zealand—							
Anthracite	(e)	(e)	(e)	(e)	2,531	2,272	1,606
Bituminous	1,179,581	1,174,725	1,138,922	1,068,082	962,215	955,998	934,365
Sub-bituminous	1,326,010	1,229,271	1,504,241	1,540,916	1,623,336	1,569,020	1,504,942
Lignite	133,916	276,045	144,705	196,972	245,494	266,580	310,810
TOTAL	295,000,000	296,000,000	286,000,000	281,000,000	273,589,000	283,953,000	288,472,000

(a) Information not available.

(b) Owing to the re-classification of Alberta Lignite as Sub-bituminous and some Sub-bituminous as Bituminous, figures are not comparable with those published previously.

(c) January to September only.

(d) Estimated.

(e) Included with Lignite.

(f) Production of Opencast Coal by kinds in 1947 was as follows (long tons):—
Anthracite 234,670, Bituminous 10,093,883 and Lignite 62,205.

PRODUCTION OF COAL (Cont.)

Producing Country	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES							
Albania—					16,000	16,000	16,000
Lignite (estimated) ..	(a)	(a)	(a)	(a)			
Austria—					70,485	103,294	175,334
Bituminous	222,131	221,162	210,805	191,432	2,033,352	2,364,186	2,791,133
Brown coal	3,477,195	3,474,359	3,588,250	3,615,539	15,582,969	22,419,149	24,004,902
Belgium	26,299,590	24,659,724	23,369,979	13,291,658			
Bulgaria—					27,000	27,000	27,000
Anthracite (estimated) ..	27,000	27,000	27,000	27,000	200,000	200,000	200,000
Bituminous (estimated) ..	200,000	200,000	200,000	200,000	3,502,231	3,465,843	3,978,713
Lignite	2,949,785	3,609,045	3,952,341	3,055,784			
Czechoslovakia—					11,530,951	13,913,000	16,047,254
Bituminous	20,739,000	22,416,000	24,223,000	22,865,000	15,113,522	19,204,000	22,030,861
Brown coal	22,086,000	23,751,000	27,152,000	26,432,000			
Denmark—					2,283,000	2,275,000	2,758,000
Lignite	985,000	1,747,000	2,575,000	2,164,000			
France (b)—					463,000	580,000	600,000
Anthracite (d)	580,000	560,000	560,000	344,000	32,323,983	45,882,000	43,913,000
Bituminous	40,608,171	40,648,062	39,331,322	24,514,977	1,676,702	2,055,000	2,067,000
Lignite	1,976,247	1,926,554	1,865,868	1,322,764			
Germany—					40,557,000	64,651,000	84,334,000
Bituminous	156,347,000	155,756,000	156,111,000	133,198,000	117,880,000	157,351,000	158,060,000
Brown coal	233,670,000	243,273,000	250,583,000	227,162,000			
Greece—					70,000	(a)	(a)
Lignite	200,000	360,000	365,000	190,000			
Hungary—					697,000	709,000	1,043,000
Bituminous	1,280,200	1,230,000	1,351,000	(c)1,240,000	3,520,000	5,539,000	7,627,000
Brown coal and lignite ..	10,782,300	11,056,900	10,618,300	(c)9,921,000			
Italy—					(a)	103,331	114,299
Anthracite	155,830	170,314	120,147	(a)	(a)	1,056,048	1,222,253
Bituminous	2,215,848	2,464,689	1,216,744	(a)	(a)	1,496,918	1,821,550
Brown coal	1,997,944	2,267,573	1,903,148	(a)			
Netherlands—					5,016,074	8,182,522	9,940,824
Bituminous	13,145,477	12,134,994	12,299,728	8,181,443	125,402	493,266	466,463
Brown coal	198,317	274,748	377,043	239,215			
Poland—					26,933,847	46,541,155	58,196,455
Bituminous	{ 75,136,796	82,645,992	89,645,992	86,008,608		1,431,712	4,690,700
Brown coal							
Portugal—					429,229	373,532	364,301
Anthracite	399,358	465,434	348,506	371,031	—	—	—
Bituminous	28,671	24,814	35,894	32,535	160,278	138,649	106,020
Brown coal	82,643	106,453	106,529	123,585			
Roumania—					16,545	14,757	23,404
Anthracite	{ 260,000	281,000	(a)	(a)	191,281	148,807	137,173
Bituminous					1,484,006	1,402,339	1,632,469
Brown coal					306,983	413,844	439,674
Lignite	{ 2,159,000	2,330,000	2,426,000	1,830,000			
Spain—					1,505,375	1,434,509	1,409,741
Anthracite	1,130,196	1,223,302	1,133,571	1,492,091	9,057,198	9,154,183	8,984,148
Bituminous	7,493,990	7,887,682	8,305,537	8,827,052	1,329,440	1,315,003	1,251,478
Lignite	780,688	1,088,100	1,094,453	1,183,233	5,912	94,911	331,184
Spitzbergen and Bear Island	345,000	(a)	(a)	(a)	605,618	480,467	409,218
Sweden	547,898	573,086	548,708	561,230			
Switzerland—					99,940	73,367	(a)
Bituminous	44,184	106,670	100,858	50,420	205,984	101,633	(a)
Brown coal	37,360	97,344	125,134	91,960			

(a) Information not available.

(b) Excludes Alsace-Lorraine from 1941 to 1944.

(c) January to October only.

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

PRODUCTION OF COAL (Cont.)

Producing Country	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
U.S.S.R. (d)	168,000,000	(a)	(a)	(a)	160,000,000	176,000,000	195,000,000
Algeria—							
Bituminous	81,728	145,600	114,483	116,830	159,781	211,496	201,369
Lignite	3,000	7,000	1,461	504	—	—	—
Belgian Congo	29,983	42,581	68,000	48,000	49,553	100,292	100,462
Madagascar	1,000	2,044	905	1,752	3,140	371	—
Morocco (French)—							
Anthracite	136,854	117,514	100,674	132,277	175,800	217,362	264,300
Mozambique	17,192	6,689	13,267	15,558	11,684	16,038	15,917
Tunis—							
Lignite	(a)	138,655	40,490	64,730	67,512	93,436	75,166
Greenland	7,000	5,000	7,000	8,000	7,000	8,000	7,000
Mexico	842,183	893,216	1,036,847	889,300	900,000	967,300	1,022,800
United States—							
Anthracite	50,328,810	53,864,044	54,146,089	56,876,217	49,048,133	54,023,994	51,062,508
Bituminous	456,583,404	517,644,889	524,488,995	550,912,571	513,347,336	474,334,329	560,491,132
Lignite	2,478,421	2,616,662	2,454,815	2,280,500	2,382,420	2,381,803	2,565,762
Argentina	561	4,768	7,396	8,900	6,600	(a)	(a)
Brazil	1,385,810	1,746,623	2,045,433	1,826,284	2,040,142	1,866,764	1,957,401
Chile—							
Bituminous	2,027,732	2,116,830	2,229,353	2,243,437	2,045,702	1,923,201	2,046,279
Colombia	396,975	408,834	468,157	491,285	(a)	(a)	(a)
Peru—							
Anthracite	4,527	4,921	22,357	14,315	36,266	80,793	80,749
Bituminous	110,815	142,315	161,685	156,306	161,818	145,388	131,182
Venezuela	5,517	8,553	11,261	8,529	6,911	3,564	3,021
China—							
"Free"	5,900,000	6,214,000	6,513,000	5,415,000	5,155,000	18,118,000	(a)
North and Central (b)	24,371,000	25,399,000	22,256,000	20,872,000	(a)	(a)	(a)
Formosa (b)	2,726,000	2,275,000	2,287,000	1,627,000	(a)	(a)	(a)
French Indo-China—							
Anthracite	2,216,000	1,141,000	940,000	482,000	318,000	257,600	243,531
Bituminous, etc.	76,400	82,300	64,800	46,000	13,000	—	—
Iran (d)	(a)	(a)	(a)	(a)	(a)	150,000	150,000
Japan (b)—							
Bituminous	54,724,000	53,323,000	54,662,000	48,556,000	22,015,000	20,054,000	26,805,000
Lignite	402,000	1,583,000	2,835,000	2,268,000	1,618,000	2,315,000	2,776,000
Karafuto (b)	6,369,000	4,832,000	4,900,000	2,636,000	(a)	(a)	(a)
Korea (b)	6,696,000	6,540,000	6,470,000	6,926,000	(a)	(a)	(a)
Lebanon—							
Lignite	8,278	7,207	1,100	(a)	(a)	(a)	(a)
Manchuria (b)	23,766,000	23,787,000	24,989,000	25,222,000	(a)	(a)	(a)
Netherlands East Indies	1,996,832	(c) 100,000	(c) 100,000	(c) 100,000	(c) 100,000	75,702	294,188
Philippine Islands	(a)	(a)	(a)	(a)	(a)	20,000	(a)
Turkey—							
Bituminous	2,971,935	2,469,978	3,115,743	3,503,625	3,660,960	3,770,038	3,882,811
Lignite	296,634	384,232	614,921	751,641	713,766	594,000	809,934
TOTAL*	1,450,000,000	1,460,000,000	1,480,000,000	1,420,000,000	1,070,000,000	1,180,000,000	1,340,000,000
WORLD'S TOTAL*	1,745,000,000	1,756,000,000	1,770,000,000	1,700,000,000	1,344,000,000	1,465,000,000	1,628,000,000

* Coal is also produced in Yugoslavia. An allowance has been made in the totals for this and other countries where information is not yet available.

(a) Information not available.

(b) Years ended March 31 following that stated for the years 1941 to 1945.

(c) Average annual production during Japanese occupation.

(d) Estimated.

PRODUCTION OF COKE
(Long tons)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Great Britain—							
Gas-works—coke ..	10,519,602	11,163,479	11,370,354	11,456,759	11,596,308	12,475,631	12,389,929
breeze ..	1,783,477	1,985,285	2,077,568	2,074,837	2,154,625	2,306,456	2,331,243
Coke-ovens—coke ..	14,546,736	14,899,563	14,452,459	14,081,354	13,985,727	13,914,243	13,814,947
breeze ..	822,108	791,910	759,404	766,452	741,738	945,705	782,001
Northern Ireland—							
Gas-works (estimated) ..	120,000	120,000	120,000	120,000	120,000	120,000	120,000
Eire—							
Gas-works	(b) 150,000	(b) 95,000	(g) 80,099	(g) 75,627	95,415	120,819	(a)
Southern Rhodesia ..	79,737	70,275	77,326	78,596	83,760	84,465	62,684
Union of South Africa—							
Coke-ovens (f)	453,779	640,646	644,985	663,113	680,107	692,249	(a)
Gas-works (f)	(a)	(a)	(a)	(a)	(a)	29,062	(a)
Canada—							
Gas-works—coke ..	250,650	253,852	243,930	241,648	241,980	231,398	233,107
breeze ..	15,503	12,725	31,093	30,934	32,760	5,137	2,545
Coke-ovens—coke ..	2,393,546	2,496,123	2,666,578	3,069,246	2,975,516	2,551,429	2,654,487
breeze ..	148,976	152,969	229,625	245,401	242,887	214,812	247,496
India—							
Hard	2,244,483	2,095,548	1,786,855	1,603,909	1,634,005	1,674,997	(a)
Soft (c)	938,471	504,491	416,102	445,721	547,292	627,622	(a)
Australia (e)—							
Gas-works—coke ..	791,817	866,800	956,896	992,898	1,032,950	1,027,157	1,072,906
breeze ..	33,362	188,525	40,798	175,094	50,480	51,845	55,546
Coke-ovens—coke ..	1,653,382	1,710,668	1,606,713	1,485,342	1,223,892	986,005	1,197,636
breeze ..	110,376	146,082	92,658	126,221	102,402	78,466	93,403
New Zealand (d)—							
Gas-works	90,855	89,123	96,703	98,758	93,412	88,554	(a)
FOREIGN COUNTRIES							
Austria—							
Gas-works	785,911	558,356	590,762	504,292	(a)	299,821	283,121
Coke-ovens	(a)	(a)	(a)	(a)	(a)	112,601	338,962
Belgium—							
Coke-ovens	4,355,291	4,337,476	4,341,275	2,012,279	2,006,580	3,798,623	4,654,824
Bulgaria—							
Coke-ovens	4,683	(a)	(a)	(a)	(a)	(a)	(a)
Czecho-Slovakia—							
Gas-works	333,347	378,461	396,194	406,892	286,172	371,312	} 2,869,260
Coke-ovens	3,638,000	3,827,913	4,212,940	4,456,959	1,870,540	2,215,115	
Denmark (gas-works) (h) ..	348,079	418,601	418,968	343,610	416,692	336,113	481,000
Finland (gas-works) ..	89,098	90,033	90,056	75,989	64,532	56,650	(a)
France—							
Gas-works	1,103,866	1,055,689	944,986	314,621	563,658	1,136,100	1,130,300
Coke-ovens	4,815,584	4,929,260	4,910,777	2,862,717	2,687,361	4,882,500	5,747,000
Semi-coke	204,000	191,200	204,375	146,740	140,872	166,800	183,000
Germany—							
Coke-ovens	50,097,041	50,428,240	51,928,000	51,572,000	j k 1,458,000	(i) 9,556,000	(i) 14,886,000
Brown-coal coke ..	(a)	(a)	(a)	(a)	(a)	(j) 307,000	(j) 357,000

(a) Information not available.

(b) Estimated.

(c) Coke made at collieries only.

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

(e) Years ended June 30 of that stated.

(f) Revised.

(g) Including coke-breeze.

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

(i) British, American and French Zones.

(j) British and American Zones.

(k) May to October only.

PRODUCTION OF COKE (Cont.)

Producing Country	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Italy—							
Gas-works	(a)	(a)	(a)	(a)	(a)	(a)	} 1,600,792
Coke-ovens	1,804,432	1,641,841	(a)	(a)	(a)	(a)	
Netherlands—							
Gas-works	663,005	729,400	761,507	(c) 440,292	(e) 98,500	488,594	(a)
Coke-ovens	2,220,779	2,016,455	2,129,269	1,550,486	842,027	1,287,110	(a)
Norway (gas-works) ..	54,829	46,722	48,104	47,346	17,124	(a)	(a)
Poland—							
Gas-works	(a)	(a)	(a)	(a)	(a)	497,752	693,351
Coke-ovens	2,516,000	3,120,000	3,199,000	(a)	(a)	3,019,555	3,703,348
Semi-coke	(a)	(a)	(a)	(a)	(a)	8,640	55,037
Portugal (gas-works) ..	24,302	18,382	25,800	20,944	18,948	16,308	20,501
Spain—							
Gas-works	128,285	145,390	167,330	169,145	136,000	181,600	(a)
Coke-ovens	741,214	801,493	788,469	848,951	758,200	746,500	802,000
Sweden (including breeze)	528,326	605,660	614,197	589,308	426,286	403,564	618,470
Switzerland—							
Gas-works	391,501	348,462	302,068	304,862	129,007	177,321	331,648
U.S.S.R.	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Algeria (gas-works) ..	(a)	(a)	(a)	(a)	76,404	(a)	(a)
Canary Islands (gas-works)	2,725	3,718	3,525	3,500	3,825	3,500	2,907
Tunis (gas-works)	4,574	8,533	5,610	10,019	13,587	10,573	10,028
United States—							
Coke-ovens—							
Coke	49,177,719	52,322,767	53,337,069	56,360,296	52,169,711	45,052,916	56,406,616
Breeze and screenings	3,702,002	3,865,635	3,996,743	4,121,972	3,819,036	3,498,954	4,629,682
Beehive—							
Coke	5,985,854	7,387,531	7,083,381	6,225,912	4,655,262	4,078,929	5,970,804
Breeze and screenings	108,615	135,404	135,128	134,955	82,405	67,871	114,310
Gas-works (d)—							
Coke	3,038,727	3,297,685	3,576,032	3,518,983	3,271,618	3,098,376	3,199,231
Breeze and screenings	255,912	241,535	279,658	311,121	313,587	279,843	257,919
Brazil (b)	130,000	130,000	130,000	130,000	130,000	130,000	130,000
Chile	107,136	94,579	98,922	103,136	98,631	(a)	(a)
Colombia (b)	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Dutch Guiana (b)	1,500	1,500	1,500	1,500	1,500	1,500	1,500
Uruguay (gas-works)—							
Coke	21,315	19,082	19,175	20,105	22,791	22,887	24,808
Breeze	2,168	2,390	3,563	4,233	3,049	2,622	3,640
French Indo-China ..	—	4,300	5,200	2,700	(a)	(a)	(a)
Japan—							
Metallurgical coke ..	4,737,014	4,985,276	4,760,164	3,664,979	(a)	(a)	(a)
Manchuria (coke-ovens) ..	1,760,000	1,963,000	2,148,000	1,636,000	(a)	(a)	(a)
Turkey—							
Gas-works	42,775	44,684	43,239	47,121	43,924	45,000	(a)
Coke-ovens	168,000	175,300	180,084	205,328	223,700	258,012	261,244
Semi-coke	56,971	55,198	46,924	48,644	54,995	42,410	59,515
Coke dust	(a)	(a)	(a)	(a)	5,291	2,088	2,707

(a) Information not available.

(b) Estimated.

(c) January to July only.

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

(e) October to December only.

PRODUCTION OF BRIQUETTES

(Long tons)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Great Britain	(a)	(a)	737,500	870,000	986,500	1,542,900	1,832,700
Eire	15,202	28,293	106,001	121,794	117,598	84,426	51,500
Canada (Alberta)	112,668	176,701	198,309	226,421	223,459	246,112	252,587
Australia (b)—							
Brown-coal briquettes ..	433,756	413,450	414,959	416,715	431,344	493,144	490,338
New Zealand	19,901	12,846	12,190	12,461	9,784	12,975	11,409
FOREIGN COUNTRIES							
Belgium	1,518,256	1,109,624	997,405	438,051	763,675	1,057,097	1,331,326
Czechoslovakia—							
Coal	354,973	461,415	544,694	456,730	70,183	205,876	255,037
Brown-coal briquettes ..	290,373	257,008	318,532	323,802	189,445	248,465	279,164
France	4,373,734	3,370,464	3,019,801	1,573,362	3,416,445	5,262,700	5,170,600
Germany—							
Coal briquettes (d) ..	7,732,000	7,131,000	7,073,000	6,318,000	e 472,000	e 1,872,000	e 2,142,000
Brown-coal briquettes (d)	53,551,000	54,421,000	58,764,000	60,578,000	e 2,226,000	e 10,617,000	e 11,653,000
Italy—							
Anthracite briquettes ..	} 119,533	(a)	(a)	(a)	(a)	(a)	(a)
Brown-coal briquettes ..							
Netherlands—							
Coal briquettes	1,116,636	952,763	879,577	598,708	406,055	714,395	895,674
Brown-coal briquettes ..	64,086	56,175	54,580	42,280	26,826	42,966	41,015
Poland—							
Coal briquettes	(a)	(a)	(a)	(a)	(a)	520,726	622,272
Brown-coal briquettes ..	(a)	(a)	(a)	(a)	(a)	—	41,038
Portugal	73,720	59,145	45,865	47,929	71,037	76,055	95,879
Spain	405,939	776,158	643,665	910,255	1,032,900	820,200	830,000
Switzerland (estimated) ..	(a)	(a)	(a)	(a)	(a)	100,000	100,000
Algeria	48,678	44,845	49,885	(a)	100,148	(a)	(a)
Morocco (French)	(a)	(a)	10,700	24,800	37,921	(a)	(a)
Tunis	(a)	(a)	(a)	(a)	16,358	(a)	(a)
United States (c)	1,159,470	1,560,982	1,932,141	2,200,858	2,466,254	2,682,167	2,831,782
French Indo-China	94,500	53,700	29,300	17,300	(a)	(a)	(a)
Netherlands East Indies ..	111,000	(a)	(a)	(a)	(a)	(a)	2,000
Turkey	28,022	21,603	29,778	33,735	23,338	12,364	14,891

(a) Information not available.

(b) Years ended June 30 of that stated.

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

1941, 240,932; 1942, 225,936; 1943, 192,504; 1944, 156,937; 1945, 185,842; 1946, 170,463; 1947, 163,287

(d) Years ended March 31 of that stated for the years 1941 to 1944 (U.S. Bureau of Mines).

(e) British and U.S. zones only. Figures for 1945 are for the period May to October only.

PRODUCTION OF COAL BY-PRODUCTS

(Long tons)

Producing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Great Britain—							
Tar (quantity distilled) ..	2,049,100	2,172,000	2,124,000	2,083,000	2,121,000	2,196,000	2,274,000
Road tar (incl. refined) ..	(a)	640,000	650,000	606,000	628,000	735,000	732,000
Pitch	(a)	467,000	380,000	404,000	412,000	474,000	529,000
Motor benzol*	163,000	184,000	174,000	135,000	145,500	184,500	143,500
Other refined light oils ..	94,800	105,600	126,000	161,600	143,200	92,000	88,800
Creosote-pitch mixture ..	(a)	530,000	624,000	591,000	559,000	381,000	305,000
Creosote oil	(a)	305,000	233,000	262,000	286,000	357,000	452,000
White naphthalene	(a)	7,600	9,000	7,400	7,400	7,500	10,700
Hot-pressed do.	(a)	8,400	9,200	9,300	10,000	8,400	8,900
Crude do.	(a)	15,200	14,500	14,100	14,900	19,400	12,600
Pyridine bases	(a)	700	600	600	600	650	650
Natural phenol	(a)	8,200	8,700	9,200	8,200	9,600	9,100
Refined cresylic acid ..	(a)	29,000	34,000	33,000	32,500	40,000	40,000
Anthracene 40.50%	(a)	1,920	2,420	2,480	1,940	2,240	2,280
Ammonium sulphate (f)	590,400	620,400	826,500	779,500	760,400	833,700	796,700
Eire—							
Tar	(a)	(a)	5,665	6,118	6,868	7,047	6,264
Ammonium sulphate (b)	(a)	(a)	(a)	(a)	911	1,019	261
Union of South Africa—							
Tar*—coke-ovens (d) ..	1,959	1,549	1,732	(a)	(a)	(a)	(a)
do.—gas-works (e)	16,272	21,551	27,398	27,040	(a)	(a)	(a)
Canada—							
Tar* (crude)	171,155	175,830	182,228	194,400	194,847	169,456	167,053
Tar (refined)	34,700	27,354	17,738	49,102	53,732	26,845	18,243
Pitch	75,994	81,890	95,920	72,854	60,843	75,909	67,367
Creosote oils	56,642	71,258	49,152	51,129	48,782	48,738	45,823
Ammonium sulphate	31,601	32,321	29,382	36,630	35,077	27,210	29,465
Benzol	24,125	23,996	23,294	28,988	29,650	23,104	23,121
Ammonia liquor (NH ₃ content)	858	765	759	701	760	696	662
Toluol, naphthalene, etc.	7,807	7,859	6,829	7,882	6,569	2,635	4,141
India (coke-ovens)—							
Ammonium sulphate	26,353	24,956	19,460	20,118	19,591	19,108	(a)
Australia (gas-works) (e)—							
Tar (crude)*	128,969	140,377	141,519	169,004	161,553	165,032	185,817
Tar (refined)*	33,286	35,198	38,976	52,986	34,289	37,864	40,145
Tar oils (crude)	6,346	9,269	10,428	14,105	14,204	15,126	18,422
Ammonia liquor	47,075	40,200	78,508	167,702	92,945	74,150	68,417
Ammonium sulphate	3,366	3,435	(a)	(a)	1,880	2,274	1,186
New Zealand (c)—							
Tar (gas-works)*	12,210	13,201	16,638	13,356	10,924	11,958	(a)
FOREIGN COUNTRIES							
Austria—							
Tar	30,103	31,066	28,148	24,928	} (a)	} (a)	} (a)
Benzol	6,843	7,849	8,314	6,025			
Liquid ammonia	1,993	2,103	1,995	1,791			
Ammonium sulphate	5,683	6,720	6,221	5,234			

*See page 69.

(a) Information not available.

(b) Included also in production in Great Britain.

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

(d) Excluding iron and steel works.

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

(f) Source : British Sulphate of Ammonia Federation. Includes Northern Ireland and Eire.

PRODUCTION OF COAL BY-PRODUCTS (Cont.)

Producing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Belgium—							
Tar (crude)						129,530	159,183
Benzol, crude						37,389	(a)
do. motor						16,441	15,091
do. industrial	(a)	(a)	(a)	(a)	(a)	7,913	7,786
Benzine						3,117	7,389
Toluol and xylol						2,595	2,886
Solvent naphtha						815	826
Denmark—							
Tar (gas-works)	27,295	26,853	26,360	25,008	28,626	22,620	30,500
Finland—							
Gas-works—							
Tar	2,440	2,721	3,068	2,194	1,941	1,996	(a)
Benzol	192	207	219	183	139	201	(a)
Ammonia	186	218	238	222	191	232	(a)
France—							
Tar (crude)	302,235	325,290	303,352	182,422	207,943	354,300	(a)
Ammonium sulphate	70,651	61,626	56,149	21,229	21,591	58,905	(a)
Benzol (crude)	44,639	47,995	51,957	27,538	21,893	55,770	(a)
Pitch	141,332	138,813	156,351	83,620	99,279	(a)	(a)
Phenol (crude)	4,665	4,444	6,368	3,844	2,678	(a)	(a)
Naphthalene	13,041	12,962	12,106	8,050	11,836	(a)	(a)
Germany (British Zone)—							
Pitch						188,602	265,756
Tar oils						101,216	145,370
Naphthalene	(a)	(a)	(a)	(a)	(a)	21,212	31,972
Refined benzol products						78,410	124,610
Other products						11,196	13,892
Italy—							
Tar	47,922						59,644
Ammonium sulphate (b)	18,653						(a)
Benzol (crude)	15,478						9,389
Naphthalene	5,836						6,545
Distillates	(a)	(a)	(a)	(a)	(a)	(a)	27,951
Benzol (refined)	(a)						5,699
Toluol and xylol	(a)						698
Pitch	(a)						19,871
Solvents	(a)						3,405
Netherlands—							
Tar (crude)	(a)	(a)	(a)	(a)	(a)	(a)	108,950
Norway—							
Tar (gas-works)	3,631	3,136	3,150	2,994	1,640	(a)	(a)
Poland—							
Tar (crude)						79,030	95,990
Pitch	(a)	(a)	(a)	(a)	(a)	13,292	14,758
Ammonium sulphate						20,417	29,391
Benzol (crude)						24,876	24,515
Spain—							
Coke-ovens—							
Tar	34,629	42,839	32,517	50,146	35,700	35,900	(a)
Pitch	20,415	21,120	7,713	9,365	(a)	(a)	(a)
Benzol	8,069	8,697	7,813	9,160	(a)	(a)	(a)
Naphthalene	363	(a)	(a)	(a)	(a)	(a)	(a)
Ammonium sulphate	9,719	16,134	18,770	17,266	(a)	(a)	(a)
Creosote	12,727	7,885	6,308	7,284	(a)	(a)	(a)
Gas-works—							
Tar (crude)	8,422	8,639	10,329	9,945	(a)	(a)	(a)
do. (refined)	2,152	1,711	1,830	1,725	(a)	(a)	(a)
Ammonium sulphate	729	647	627	558	(a)	(a)	(a)

(a) Information not available.

(b) Figures refer to amount obtained in the manufacture of metallurgical coke only.

PRODUCTION OF COAL BY-PRODUCTS (Cont.)

Producing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Sweden—							
Tar (crude)	21,153	24,190	23,776	23,158	18,539	20,868	} (a)
Other tar	12,180	11,665	14,101	14,612	16,082	24,163	
Pitch	486	526	630	1,102	1,495	1,442	
Ammonium sulphate ..	3,984	4,732	4,583	3,742	3,222	3,244	
Benzol, toluol, etc. ..	2,544	3,853	4,138	4,031	3,369	3,084	
Distillates, etc.	990	2,062	2,837	4,240	3,628	1,707	
Switzerland—							
Tar (crude) (gas-works)	22,116	21,184	18,499	16,660	7,286	10,346	19,534
Benzol	(a)	(a)	(a)	(a)	(a)	1,858	2,450
Algeria—							
Tar (gas-works)	(a)	(a)	(a)	(a)	5,364	(a)	(a)
Tunis—							
Tar (gas-works)	542	1,091	53	874	871	1,080	1,488
United States—							
Coke-ovens—							
Tar*	3,009,186	3,163,144	3,154,560	3,281,227	2,975,672	2,550,721	3,146,045
Pitch	325,109	569,784	595,763	597,521	523,786	455,795	587,005
Sulphate equivalent of ammonia produced(e)	777,457	805,815	801,512	843,663	780,999	664,033	814,564
Benzol*	130,635	284,190	441,464	489,700	422,235	365,763	402,939
Motor fuel*	282,433	174,187	57,172	49,883	77,387	73,653	42,480
Naphthalene (crude) ..	37,521	42,684	43,793	46,000	39,142	31,967	43,919
Toluol and xylol*	95,873	105,603	134,114	137,899	112,985	73,549	109,565
Solvent naphtha*	16,933	16,717	16,772	17,833	15,393	14,106	20,986
Creosote*	160,050	167,539	172,828	173,723	146,155	123,503	160,707
Phenol*	(a)	4,047	} 6,254	5,860	(a)	(a)	(a)
Light carbolic oil	(a)	7,377					
Other light products ..	(a)	30,794	29,852	30,698	26,115	25,241	27,897
All sources (b)—							
Coal tar	3,009,184	3,163,145	3,154,560	3,365,496	3,072,650	(a)	(a)
Water gas and oil gas tar	555,556	726,496	726,496	769,231	769,231	(a)	(a)
Crude light oil	780,087	839,343	881,070	949,497	867,457	(a)	931,207
Benzol, motor	302,441	184,575	65,565	49,884	87,234	85,556	52,965
do. other	149,373	284,190	473,490	594,640	520,717	454,510	558,840
Toluol	116,297	141,477	314,843	438,490	432,709	110,513	198,497
Xylol	28,190	30,497	34,212	28,330	31,163	(a)	135,140
Solvent naphtha	34,022	16,718	16,772	22,881	25,038	(a)	40,628
Other light oil derivatives	27,397	68,550	49,400	120,567	49,293	(a)	55,220
Naphthalene, crude ..	88,294	112,021	136,281	134,437	128,409	108,157	140,500
Creosote oil	569,456	695,623	695,183	639,492	614,484	541,274	632,857
Coal tar (c)	26,094	31,944	39,628	45,949	33,308	(a)	48,893
Tars, refined (d)	122,825	129,808	122,816	211,799	133,291	(a)	83,808
Tars, road	636,274	650,585	644,650	687,932	718,496	(a)	682,083
Distillate products, others	136,996	259,341	65,206	44,548	29,024	(a)	77,127
Pitch of tar	808,036	1,163,393	1,158,036	1,161,607	1,494,643	(a)	1,293,750
Pitch of tar coke	86,607	105,357	115,179	92,857	77,679	(a)	90,179
Argentina (gas-works)—							
Tar	} (a)	(a)	(a)	(a)	(a)	(a)	(a)
Pitch							
Liquid ammonia (28%)							
Anhydrous ammonia ..							
Ammonium sulphate ..							

(a) Information not available.

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

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

(d) Used for paints, etc.

(e) Actual Ammonium sulphate produced was as follows (long tons): 1941—665,355; 1942—684,647; 1943—679,705; 1944—730,575; 1945—682,404; 1946—574,779; 1947—722,714.

PRODUCTION OF COAL BY-PRODUCTS (Cont.)

Producing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Chile—							
Tar	15,801	14,482	13,633	14,740	14,543	(a)	(a)
Uruguay (gas-works)—							
Tar	1,385	1,688	1,564	1,704	1,739	1,605	1,741
Benzol	818	149	283	390	591	334	338
Tar oil	159	198	432	385	216	254	291
Pitch	143	156	446	320	180	234	206
Turkey—							
Coke-ovens—							
Tar (crude)					(a)	12,968	—
Benzol (crude)					(a)	3,389	—
Road tar					503	377	324
Heavy oils					(a)	3,792	5,257
Naphthalene (crude)					445	204	—
Anthracene (crude)	(a)	(a)	(a)	(a)	(a)	318	241
Pitch					6,244	7,691	7,245
Naphthalene (refined)					300	340	441
Motor benzol					2,293	2,670	2,775
Other benzol					(a)	1,579	—
Solvent naphtha					94	44	93
Gas-works—							
Tar	2,111	2,435	2,052	1,980	2,283	2,500	(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.

EXPORTS OF COAL, COKE AND BY-PRODUCTS*

(Domestic Produce)

(Long tons)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Anthracite—							
small and sized	726,387	522,808	540,661	246,483	486,552	913,222	67,612
unscreened	—	—	—	—	—	183	469
large	121,247	118,312	78,044	33,224	7,957	49,515	35,035
Bituminous—							
small and sized	1,329,099	948,891	1,089,894	896,744	1,639,780	1,959,875	490,037
unscreened	783,492	619,207	761,230	437,770	723,406	702,969	242,938
large	2,123,746	1,365,053	1,155,378	991,969	467,009	828,733	220,842
bunkers	4,284,876	3,541,686	3,243,831	2,417,968	3,104,824	4,719,234	4,388,656
Coke, gas	37,692	57,505	74,222	17,478	25,851	79,286	4,067
do. other	405,688	223,539	218,999	95,751	157,567	397,665	68,313
Manufactured fuel	169,362	70,168	115,771	23,006	21,399	20,070	—
Tar	15,689	12,319	10,055	4,627	42,847	109,451	185,974
Pitch	14,321	64,780	71,934	74,364	154,208	179,005	216,614
Creosote oil	13,045	17,130	2,223	1,633	2,550	23,947	163,807
Other heavy coal-tar oils	449	121	88	236	970	4,457	5,435
Naphthalene	3,105	1,469	5,470	2,712	2,502	2,754	1,054
Carbolic acid—							
Crude	15	11	7	8	16	11	30
Crystals	49	42	22	256	1,534	394	23
Cresylic acid	11,329	8,330	12,738	8,570	10,576	13,880	11,097
Benzol	—	9,592	126,428	179,438	122,404	4,832	2,310
Eire—							
Coke	38	—	—	—	—	—	—
Tar and pitch	21	—	—	—	—	—	—
Creosote, etc.	134	—	—	—	—	—	—
Malta—							
Coal (bunkers on merchant ships) (b)	(a)	(a)	(a)	(a)	(a)	3,672	4,112
Anglo-Egyptian Sudan—							
Coal (bunkers) (b)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Kenya and Uganda—							
Coal (bunkers) (b)	54,276	59,722	61,838	77,297	48,260	29,899	39,099
Nigeria—							
Coal	54,491	73,098	80,117	187,627	184,797	177,528	135,699
do. (bunkers)	(a)	(a)	(a)	(a)	7,827	10,854	20,937
do. do. (b)	(a)	(a)	(a)	(a)	6,058	2,809	—
Sierra Leone—							
Coal (bunkers) (b)	300,674	312,061	274,341	244,246	156,383	92,392	77,469
Southern Rhodesia—							
Coal	582,293	709,748	867,379	904,825	784,146	649,922	604,463
Coke	95,490	86,025	84,162	92,980	78,835	68,598	55,200
Union of South Africa—							
Coal	997,111	1,270,524	2,016,608	3,664,152	3,760,343	3,145,933	(a)
do. (bunkers)	(a)	(a)	(a)	753,962	760,481	712,553	(a)
Coke	6,861	30,201	29,993	27,988	63,482	49,656	(a)
Tar and pitch	2,132	1,777	1,990	4,994	2,231	5,515	(a)
Canada—							
Coal	468,624	719,390	983,495	892,328	735,455	762,430	630,721
Lignite	5,884	8,811	7,667	9,672	15,177	7,649	7,269
Coke	35,863	39,879	43,086	38,025	34,522	43,921	95,136
Tar and pitch	2,774	2,368	1,164	1,481	16,052	11,331	6,117
Creosote oil	35,119	7,061	6,174	12,360	8,298	412	151
Other coal tar oils	5,459	8,651	7,845	9,289	10,773	13,565	10,087

* For Ammonium sulphate, etc. see Nitrogen Compounds, pages 195-196.

(a) Information not available.

(b) Foreign coal (see imports).

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

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES (Cont.)							
British West Indies—							
Jamaica—							
Coal (bunkers) (b) ..	36,883	19,838	13,044	5,182	11,271	26,284	72,929
St. Lucia—							
Coal (bunkers) (c) ..	39,767	(a)	(a)	(a)	(a)	(a)	(a)
Trinidad and Tobago—							
Coal (bunkers) (c) ..	33,518	86,482	130,341	69,244	79,969	59,819	81,172
Aden (including re-exports)—							
Coal (bunkers) (c) ..	199,499	278,101	212,389	184,341	191,580	285,542	275,681
British India—							
Coal	1,693,233	414,262	263,006	103,493	53,860	463,522	(d) 500,604
do. (bunkers—domestic produce)	758,719	796,637	449,460	367,361	382,595	551,499	(d) 464,723
do. (bunkers—foreign produce)	8	550	60	—	—	—	(a)
Coke	41,347	4,006	680	150	179	983	(a)
Coal and coke (government stores)	(a)	20,212	2,200	13,703	—	—	(a)
Malaya (including re-exports)—							
Coal	(a)	(a)	(a)	(a)	(a)	2,002	1,581
do. (bunkers) (c) ..	(a)	(a)	(a)	(a)	(a)	(a)	120,236
Coke	(a)	(a)	(a)	(a)	(a)	2,227	214
Tar and pitch	(a)	(a)	(a)	(a)	(a)	234	241
Ceylon—							
Coal (bunkers) (c) ..	252,844	164,175	102,973	147,469	134,701	137,994	104,441
Cyprus—							
Coal (bunkers) (c) ..	171	(a)	(a)	45	(a)	96	163
Hong Kong (including re-exports)—							
Anthracite	} (a)	} (a)	} (a)	} (a)	} (a)	4,999	85
Bituminous						1,442	3,080
do. (bunkers) (c) ..						(a)	(a)
Coke						211	223
Briquettes						—	—
Australia—							
Coal	245,226	276,107	192,745	150,555	121,735	57,068	48,758
do. (bunkers)	347,291	344,152	231,276	209,501	218,386	207,899	335,455
Coke	17,188	23,220	30,217	22,697	16,376	40,401	7,739
Tar and pitch	3,009	1,840	390	291	784	2,061	3,128
New Zealand—							
Coal	4,885	6	33	516	19	2,558	4,068
do. (bunkers)	53,294	54,694	42,504	37,171	21,970	24,809	23,967
Coke	2	25	6	16	5	7	11
Tar	83	7	12	7	1	—	—
Pitch	8	—	—	2	10	49	9
FOREIGN COUNTRIES							
Austria—							
Coal and coke	(a)	(a)	(a)	(a)	(a)	(a)	20,127

(a) Information not available.

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

(c) Foreign coal (see imports).

(d) January to November only.

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

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947				
FOREIGN COUNTRIES (Cont.)											
Belgium-Luxemburg E.U.—											
Coal	} 3,225,109	2,304,452	1,806,470	237,074	36,591	304,827	827,683				
do. (bunkers) (b) .. .		241,433	1,689,148	1,255,915	336,236	155,089	471,480	684,884			
Coke	} 74,974	102,003	155,501	14,835	651	15,803	72,103				
do. (bunkers) (b) .. .		417	87	63	—	} (a)	(a)	(a)			
Brown coal briquettes .. .	44	959	1,114	6							
Tar	(a)	(a)	(a)	(a)							
Pitch and other tar residues	7,355	3,075	3,016	1,713							
Naphthalene	32,504	20,154	43,749	15,966							
Distillates											
Bulgaria—											
Coal	67,433	67,507	166,400	55,544	(a)	(a)	(a)				
Czecho-Slovakia—											
Coal	} (a)	(a)	(a)	(a)	(a)	} 24,590	34,035				
Brown coal							309,145				
Coke							270,503	567,846			
Briquettes							20	3,076			
Tar and pitch							67,160	31,813			
Benzol, etc.							3,600	1,135			
Crude naphthalene							1,023	1,779			
Crude carbollic acid							248	1,606			
Cresol							29	208			
Creolin, etc.							818	1,612			
Denmark—											
Tar and pitch	42	235	—	2,435	1,284	79	(a)				
France—											
Coal	846,532	844,218	90,765	67,094	40,750	299,264	318,323				
Brown coal	2,510	12,275	1,237	(a)	—	462	12,984				
Coke	15,469	16,386	9,116	14,122	986	45,129	47,315				
Briquettes	32,761	16,172	10,980	654	226	78,045	106,641				
Brown coal briquettes .. .	(a)	(a)	90	—	—	1,083	—				
Coal, coke and briquettes—											
Bunkers (domestic produce) .. .	393,125	426,662	52,511	16,283	36,834	(a)	(a)				
do. (foreign produce)	72,226	56,955	8,175	466	20,149	(a)	(a)				
Tar and pitch	1,459	1,171	7	425	380	1,317	4,715				
Benzol, etc.	518	1,629	2,763	1,318	—	84	148				
Naphthalene	56	162	344	207	4	926	1,296				
Carbollic acid, etc. .. .	1,301	725	—	—	42	77	99				
Anthracene	(a)	(a)	680	—	62	97	61				
Coal tar oils	60	37	—	—	—	110	454				
Germany—											
Coal	} 27470,337	29,395,671	32,826,070	16,467,840	} (a)	d 12,884,000	e 19,999,000				
do. (bunkers for foreign ships)											
Brown coal								78,941	728,781	795,017	550,093
Coke								4,917,712	4,245,351	4,305,564	(c) 3,070,641
Coal briquettes								777,631	529,083	386,594	102,790
Brown-coal briquettes .. .								657,197	833,985	1,967,485	1,042,859
Tar and pitch								117,979	105,685	78,464	34,229
Naphthalene								6,029	5,972	4,400	1,785
Carbollic acid								374	559	720	341
Cresol								801	1,199	1,147	503
Light coal-tar oils, etc. ..								26,494	40,621	20,743	5,317
Heavy coal-tar oils, etc. ..								12,303	37,681	9,722	3,732

(a) Information not available.

(b) Bunkers for foreign ships only.

(c) January to July only.

(d) British and French Zones only.

(e) British, French and Russian Zones

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

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Hungary—							
Coal	(a)	(a)	(a)	(a)	(a)	80,705	130,093
Lignite							
Coke							
Briquettes							
Italy—							
Coal	(a)	(a)	(a)	(a)	(a)	(a)	4,508
Tar and tar oils							
Naphthalene, etc.							
Netherlands—							
Coal	1,351,288	798,854	574,996	(a)	(a)	351	46,685
do. (bunkers) (b)	249,566	203,015	171,401				
Coke	957,503	684,044	1,073,971				
Briquettes	148,195	150,269	119				
Tar	49	4	7				
Creosote	15,247	25,156	18,795				
Naphthalene	3,631	2,213	2,112				
Anthracene	7,285	3,802	2,445				
Carbolic acid	1	3	—				
Benzol	17,894	12,750	12,623				
Toluol and xylol	602	1,282	948				
Solvent naphtha	134	—	—				
Asphalt	—	—	5				
Norway—							
Coal	999	—	—	—	—	—	(a)
Tar	2	—	—	—	—	4	(a)
Pitch	4	9	—	—	5	43	(a)
Poland—							
Bituminous	(a)	(a)	(a)	(a)	5,403,194	13,270,447	17,087,231
Brown coal							
Coal (bunkers) (c)							
Coke							
Briquettes							
Naphthalene							
Benzol							
Creosote, etc.							
Portugal—							
Coal	63	88	510	610	192	4	137
do. (bunkers) (c)	42,804	23,153	14,863	27,359	21,329	28,252	18,280
Tar and pitch	84	64	146	203	185	102	80
Spain—							
Anthracite	1,750	5,236	9,548	3,796	9,519	30,646	17,242
Bituminous	157,146	200,115	278,400	302,395	337,251	357,741	222,912
Other coal	8	2	4	1	3	13	214
Coke	198	43	426	148	243	568	555
Briquettes	—	—	—	—	4,190	2,737	59
Carbolic acid, naphthalene, etc.	29	22	66	43	32	95	149
Tar and pitch	20	8	10	3	19	20	5
Spitzbergen—							
Coal (including bunkers)	144,187	—	—	—	289	61,741	276,751
Sweden—							
Coal	—	—	—	33,348	14,335	—	793
Coke	—	—	—	15,050	9,979	—	1,000
Tar, pitch, etc.	8,812	7,491	8,265	1,982	428	3,570	3,414
Benzol	—	—	—	—	1,213	1,780	2,150
Carbolic acid, etc.	—	—	—	—	52	24	3

(a) Information not available.

(b) Including imported coal.

(c) Bunkers for foreign ships.

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

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Switzerland—						99	197
Coal	—	—	—	—	—	—	9
Coke	—	—	—	—	—	—	1,544
Briquettes	—	—	—	—	—	—	3,024
Tar and pitch	4	—	2	—	—	2,524	604
Creosote, etc.	—	—	—	—	1	113	840
Naphthalene, etc.	355	78	164	75	47	675	—
Algeria—					(a)	(a)	33,631
Coal	17,674	19,303	8,068	—	4,668	85,790	90,900
do. (bunkers)	891	8	—	8,586	24,269	112,769	124,532
do. do. (b)	35,597	31,289	6,479	26,503	5	—	3
Coke	148	12	150	616	9	—	107
Briquettes	206	79	—	—	—	21	—
do. (bunkers) (b)	3,174	2,245	722	25	—	—	—
Tar	159	1	—	—	10	144	12
Angola (c)—					(a)	(a)	(a)
Coal	33,723	8,625	227	325	(a)	(a)	(a)
Tar	12	308	179	(a)	(a)	—	—
Canary Islands—							
Coal	(a)	121	—	12	3	3	7
do. (bunkers) (b)	(a)	115	—	—	21,265	55,505	63,434
Cape Verde Islands (b)—					(a)	(a)	(a)
Coal (bunkers)	30,153	5,808	2,906	1,210	—	—	—
Ceuta—							
Coal	(a)	2,575	2,579	3,507	4,494	6,082	5,286
do. (bunkers) (b)	(a)	88,262	122,893	135,601	151,148	126,851	158,525
Egypt—							(a)
Coke	—	79	—	2	3	—	(a)
Briquettes	1,083	—	—	—	—	—	(a)
Tar	30	19	—	7	—	—	(a)
Madagascar (foreign coal)—							
Coal (bunkers)	31,234	(a)	4,517	6,320	7,509	15,729	11,964
Morocco (French)—							
Anthracite	56,760	22,475	2,342	2,810	15,401	100,200	99,688
Other coal	137	1,785	—	—	374	50,377	2,804
Briquettes	3,290	1,116	4,463	11,311	15,401	12,470	18,225
Mozambique—							(a)
Coal	2,884	3,792	4,708	7,119	9,108	8,341	—
Mexico—							(a)
Anthracite	2	1	2,541	6	34	—	(a)
Other coal	115	4,751	8,140	3,139	320	3,864	(a)
Coke	—	6,360	276	1,244	37	—	(a)
Naphthalene	2	112	3	—	—	11	(a)
Benzol, toluol, etc.	—	647	76	—	3	—	(a)
Creosote	—	813	597	356	—	—	(a)
United States—							
Anthracite	3,018,026	3,963,025	3,695,250	3,737,440	3,295,756	5,809,669	8,715,204
Bituminous	18,518,278	20,485,094	23,068,043	23,243,168	24,948,087	36,784,816	68,755,586
do. (bunkers)	1,466,973	1,414,967	1,470,144	1,392,263	(a)	(a)	(a)
Coke	633,010	749,627	888,042	773,960	1,320,309	1,099,399	837,237
Briquettes	36,140	92,787	156,070	146,136	155,453	145,838	248,760
Tar and pitch	34,726	45,807	32,087	27,488	70,238	328,425	292,678
Benzol	9,983	624	147	1,891	9,816	20,063	5,156
Creosote	4,561	893	1,067	1,838	3,361	1,311	4,134
Toluol and xylol	11,014	33,837	37,092	51,710	17,801	9,730	11,271
Carbolic acid	1,422	8,531	13,768	12,824	7,523	11,021	9,178
Argentina—							(a)
Coal	44,263	23,391	36,740	34,727	36,958	70,147	(a)
Coke	112	16	22	1	10	6	(a)
Tar and pitch	21	27	4	—	13	1	(a)

(a) Information not available.

(b) Foreign coal (see imports).

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

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Brazil—							
Coal	60,464	54,628	56,371	16,476	—	—	—
Chile—							
Coal (including bunkers)	49,089	85,083	58,364	45,585	53,871	38,745	(a)
Coke	3	131	49	21	98	169	(a)
Colombia—							
Coal	18	6,505	2,872	135	765	10	(a)
Peru							
Coal	} 12	} 324	{ 20,599	} 8,641	{ 22,945	} 55,398	(a)
do. (bunkers) ..								{ 2,425	{ 5,275	{ 3,900
Uruguay—							
Coal (b)	61,827	64,647	(a)	(a)	(a)	(a)	(a)
China—							
Coal (including bunkers)	} 5,767,586	—	—	—	—	49,758	15,899
Coal dust							
Coke							
French Indo-China—							
Coal	} 1,311,690	} 331,899	} 176,794	} 701	} 93	} 239	} 23,822
do. (bunkers) ..							
Japan—							
Coal	1,712,000	1,571,000	1,083,000	703,000	(a)	786,731	730,982
Tar, pitch, etc. ..	(a)	(a)	(a)	(a)	(a)	10,260	980
Korea—							
Coal	1,301,121	1,173,174	660,402	404,509	(a)	(a)	(a)
Manchuria—							
Coal	1,041,290	1,557,999	1,751,887	2,033,370	(a)	(a)	(a)
Netherlands East Indies—							
Coal	(c) 635,969	} (a)	(a)	(a)	(a)	(a)	(a)
do. (bunkers) ..								(c) 38,832
Portuguese India—							
Coal	583	198	30	12	74	(a)	(a)
Syria and Lebanon—							
Coal	—	73	—	—	478	3,036	(a)
Coke	1	—	—	—	—	—	(a)
Tar	2	15	19	10	—	219	(a)
Turkey—							
Coal and briquettes, including peat ..	26,271	717	69	10	18	174,063	110,813

(a) Information not available.

(b) Foreign coal (see imports).

(c) January to October only.

IMPORTS OF COAL, COKE AND BY-PRODUCTS*

(Less Re-exports)

(Long tons)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Coal	2,239	767	2,054	2,576	1,041	7,211	694,438
Coke	44	—	6	—	10	3,200	2,212
Manufactured fuel	—	—	—	—	—	—	55
Tar and pitch	318	210	—	—	3,211	1,798	2,008
Creosote oil	159	1	1	—	—	—	—
Other heavy coal-tar oils	—	—	—	1	—	—	—
Naphthalene	—	—	—	—	—	20	—
Carbolic acid	135	1,235	2,338	—	—	2,744	1,930
Cresylic acid	—	—	—	—	—	—	—
Benzol	—	—	—	—	—	372	(d) 286
Eire—							
Anthracite	81,797	83,818	87,546	16,052	23,051	42,686	17,254
Bituminous	1,404,887	964,818	927,825	718,602	898,900	1,229,367	1,481,866
Coke	75,384	117,326	115,291	65,539	75,656	74,557	31,132
Tar and pitch	10,460	59,135	50,031	13,652	18,230	34,155	24,964
Creosote, etc.	764	520	282	370	592	212	1,750
Tar and bitumen mixture	14,069	2,974	121	180	699	16,317	26,572
Benzol	1	5	—	2	5	9	20
Malta—							
Coal (b)	(a)	(a)	(a)	(a)	(a)	4,581	17,554
Anglo-Egyptian Sudan—							
Coal	132,512	77,869	106,289	86,008	60,291	45,021	29,544
Coke	1,437	1,671	495	412	895	380	—
Pitch	39	31	—	4	12	145	—
Tar	39	31	63	380	405	651	(a)
Gambia—							
Coal, coke and patent fuel	2,002	754	—	1,150	1,233	1,205	905
Tar and pitch	9	39	87	160	6	6	12
Gold Coast—							
Coal	55,328	70,568	71,515	100,079	91,243	107,243	87,811
Coke	(a)	(a)	(a)	907	426	245	499
Patent fuel	(a)	(a)	(a)	1	—	—	—
Tar and pitch	2,966	3,006	8,164	808	3,607	1,878	1,650
Kenya and Uganda—							
Coal (c)	146,089	188,674	222,392	244,135	229,480	192,637	219,416
Coke	654	1,208	572	1,505	1,072	687	846
Creosote, etc.	22	7	46	40	42	95	51
Tar, pitch and bitumen	4,430	440	96	4,992	—	9,213	3,018
Mauritius—							
Coal	30,650	42,965	46,156	65,881	23,814	50,577	51,937
Coke	(a)	(a)	(a)	(a)	152	(a)	(a)
Tar and pitch	(a)	(a)	(a)	(a)	82	(a)	(a)
Nigeria—							
Coal (c)	33,382	21,102	13,707	9,668	5,383	1,770	124
Coke	433	353	898	434	932	427	666
Patent fuel	7	(£63)	2	—	(£28)	(£13)	2
Tar and pitch	1,463	883	2,087	1,706	3,660	4,287	3,363
Northern Rhodesia—							
Coal and patent fuel	486,093	517,272	586,207	578,692	555,350	391,786	487,805
Coke	2,313	3,644	3,814	3,795	3,745	3,029	5,363
Tar and creosote oil	10	54	105	70	87	18	15
Tar and pitch	173	213	230	246	252	174	85

* For ammonium sulphate, etc., see Nitrogen Compounds, pages 197-202.

(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.

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

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES (Cont.)							
Nyasaland—							
Coal	4,096	5,738	6,023	5,325	8,627	10,538	11,048
Tar and pitch	(a)	(a)	(a)	(a)	(a)	(a)	126
Sierra Leone—							
Coal (b)	322,185	330,978	289,257	251,974	146,414	125,036	60,452
Coke	40	(a)	(a)	40	52	171	—
Tar and pitch	70	677	96	693	102	130	73
Southern Rhodesia—							
Coal and coke	781	882	1,150	1,109	1,288	1,345	1,536
Tar, pitch and creosote..	323	335	688	2,778	1,023	600	759
South West Africa—							
Coal	23,413	6,135	5,010	3,623	7,215	11,902	(a)
Coke	28	69	36	52	10	17	(a)
Tar and pitch	20	81	173	72	141	34	(a)
Tanganyika Territory—							
Coal	92	14,090	11,989	25,375	28,314	20,930	35,424
Coke	302	508	244	287	231	429	206
Creosote, etc.	18	31	21	12	45	78	41
Tar and pitch	169	56	39	26	36	95	317
Union of South Africa—							
Coal	42,396	44,230	46,827	47,510	42,465	64,230	(a)
Coke	69	87	78	473	357	172	(a)
Tar and pitch	499	282	216	321	343	396	(a)
Naphthalene	68	4	17	9	—	5	(a)
Tar and creosote	401	57	41	490	361	1,028	(a)
Zanzibar—							
Coal	8,212	6,863	13,720	10,413	14,352	7,690	9,641
Canada—							
Anthracite	3,372,551	4,250,834	3,881,983	3,908,393	3,027,576	4,092,711	3,785,940
do. dust	67,637	134,546	118,271	67,492	19,512	42,456	36,990
Bituminous	14,439,409	17,515,622	20,727,211	21,173,846	18,870,601	18,847,450	21,592,192
do. (bunkers)	320,842	362,897	361,820	496,415	458,283	309,271	381,062
Brown coal	834	213	301	152	417	154	181
Briquettes	(a)	(a)	(a)	(a)	127,174	162,706	219,423
Coke	588,004	692,459	822,391	726,433	1,111,295	714,990	511,482
Cresylic acid	21	113	53	148	192	125	161
Benzol	27	—	—	—	99	632	10
Tar	26,591	36,426	34,895	9,837	12,157	16,779	15,431
Pitch	3,862	5,153	12,945	5,588	1,839	1,716	12,921
Naphthalene	402	325	830	688	894	464	1,033
Carbolic acid, etc. ..	399	418	502	867	971	1,100	9,509
Newfoundland(c)—							
Anthracite	15,843	(d) 11,584	18,974	18,370	25,946	22,039	53,956
Other coal	380,653	(d) 308,178	422,617	523,570	486,297	438,276	521,669
Coke	536	(d) 288	316	(e) 267	(e) 503	(e) 421	(e) 3,482
Tar				1,410	839	916	521
Pitch				148	106	104	240
Creosote				280	12	136	261
British Guiana—							
Coal	1,787	4,266	6,112	8,690	7,900	5,504	6,405
Coke	267	138	204	45	34	140	131
Patent fuel	1,800	4,810	3,500	95	—	—	—
British West Indies—							
Bahamas—							
Coal	259	49	37	52	25	93	75

(a) Information not available.

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

(c) Years ended June 30 of year following for 1941 and ended March 31 subsequently.

(d) Nine months ended March 31, 1943.

(e) Including charcoal.

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

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES (Cont.)							
British West Indies—cont.							
Barbados—							
Coal, coke, and patent fuel	(a)	(a)	(a)	(a)	2,010	1,617	3,115
Bermuda—							
Bituminous	8,630	3,618	7,935	213,977	5,251	2,686	10,600
Coke	—	—	—	—	27	5	366
Jamaica—							
Coal (b)	69,553	40,330	30,677	36,842	34,971	52,284	85,464
Coke	351	244	91	184	139	157	148
Leeward Islands—							
Coal, coke and patent fuel	(a)	(a)	(a)	(a)	3,501	(a)	(a)
St. Lucia—							
Coal (b)	46,910	(a)	(a)	(a)	(a)	(a)	(a)
St. Vincent—							
Coal	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Trinidad and Tobago—							
Coal (b)	38,555	90,548	183,547	78,182	83,073	59,860	86,654
Coke	527	6,054	2,912	2,181	3,821	30	—
Patent fuel	4,250	3,424	—	4	5	—	—
Tar and pitch	138	106	35	115	135	150	118
British Honduras—							
Coal and coke	62	76	59	15	61	84	27
Tar and pitch	336	9	9	14	13	229	4
Aden—							
Coal (b)	228,593	279,820	206,136	224,640	211,967	275,177	327,603
Coke	27	508	55	—	47	20	50
Tar and pitch	37	17	1	16	11	121	—
Naphthalene	22	202	379	351	477	357	606
British India (total imports)—							
Coal	8,008	8,386	1,647	423	302	8,345	(e) 200
Coke	137	280	554	67	855	10	(e) —
Coal and coke (government stores)	21	—	—	—	—	—	(a)
Tar and pitch	1,472	1,235	79	35	592	376	(a)
Naphthalene	477	15	13	188	210	146	(e) 62
Carbolic acid	70	10	72	210	148	39	(a)
Malaya (total imports)—							
Coal (c)	(a)	(a)	(a)	(a)	(a)	57,457	211,165
Coke	(a)	(a)	(a)	(a)	(a)	392	2,346
Tar and pitch	(a)	(a)	(a)	(a)	(a)	994	1,261
Burma—							
Coal	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Coke	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Tar and pitch	(a)	(a)	(a)	(a)	(a)	(d) 13	(a)
Naphthalene	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Ceylon—							
Coal (c)	296,494	333,622	259,581	285,925	332,676	342,966	319,668
Coke	902	773	295	838	38	319	53
Tar and pitch	574	290	204	196	233	115	409
Cyprus—							
Coal	384	469	660	1,053	1,574	1,110	884
Coke and briquettes	—	50	—	6	—	270	379
Tar and pitch	(a)	(a)	3	1	3	11	6
Naphthalene	4	(a)	(a)	7	9	20	38

(a) Information not available.

(b) Imported chiefly for bunkering purposes.

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

(d) February to September only.

(e) January to November only.

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

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947		
BRITISH COUNTRIES (Cont.)									
Hong Kong (total imports)—									
Anthracite	(a)	(a)	(a)	(a)	(a)	20,087	16,390		
Bituminous	(a)	(a)	(a)	(a)	(a)	12,114	206,816		
Coke	(a)	(a)	(a)	(a)	(a)	517	1,829		
Palestine—									
Anthracite	9,484	9,861	1,683	—	4,676	4,058	} (a)		
Other coal	37,199	123,027	11,578	4,399	11,220	738			
Coke	969	1,147	930	405	1,653	93			
Patent fuel	71	146	—	—	—	—			
Briquettes	1,523	1,506	—	—	—	—			
Tar and pitch	2	15	15	10	3	46			
Australia—									
Coal	(d) 11,618	7,529	1,791	4,739	756	1,510	1,226		
Coke	—	—	425	—	—	—	862		
Tar and pitch	43,458	31,335	25,276	68,552	76,613	89,392	156,080		
Naphthalene	718	—	—	—	12	45	8		
Carbolic acid	—	3	—	1	3	—	1		
Tar oil	100	131	178	129	208	45	—		
Fiji—									
Coal	11,398	29,584	19,999	24,396	11,202	20,150	21,997		
Coke	444	495	208	289	310	402	442		
Tar and bitumen	424	137	121	173	242	477	1,421		
New Zealand—									
Coal	78,171	90,865	37,454	—	—	27,185	93,411		
Coke	861	905	1,418	2,399	2,674	3,239	2,982		
Tar	57	32	49	47	69	94	586		
Pitch	2,296	1,046	313	119	486	621	1,260		
Benzol, toluol, etc.	16	8	1	10	39	101	123		
Naphthalene (£ N.Z.)	(£104)	(£10)	(£747)	(£6,008)	(£32)	(£1,761)	(£2,508)		
Solomon Islands (b)—									
Coal	340	(a)	(a)	(a)	—	—	—		
FOREIGN COUNTRIES									
Austria—									
Coal	} (a)	(a)	(a)	(a)	(a)	1,866,083	3,408,840		
Brown coal									
Coke									
Briquettes									
Belgium-Luxemburg E.U.—									
Coal	97,918	206,861	201,503	545,151	1,450,738	2,304,206	(c) 5,572,931		
do. coke	212	456	54,887	130,999	311,800	1,217,854	1,242,837		
do. briquettes	825	146	759	172	12,980	52,004	8,520		
Brown coal	1,562	—	26	35,476	} 230,605	389,005	(a)		
do. do. coke	521	288	47	14					(a)
do. do. briquettes	57,193	68,063	202,371	105,911					171,137
Tar	22,118	14,865	9,997	873	(a)	(a)	(a)		
Pitch, asphalt and other tar residues	(a)	(a)	(a)	(a)	(a)	(a)	(a)		
Naphthalene	90	6	2	—	(a)	(a)	(a)		
Distillates	341	1,899	575	292	(a)	(a)	(a)		

a) Information not available.

(b) Years ended March 31 following.

(c) Including bunkers.

(d) Excess of re-exports.

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

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Bulgaria—							
Coal	—	19,780	68,468	14,480	} (a)	} (a)	} (a)
Coke	3,794	9,772	15,320	3,188			
Benzol	508	103	167	165			
Carbolic acid	20	17	19	7			
Naphthalene	1,056	558	477	67			
Creosote, etc.	993	359	283	221			
Czechoslovakia—							
Coal	} (a)	} (a)	} (a)	} (a)	} (a)	106,543	945,699
Brown coal						42,637	62,003
Coke						297	20,521
Briquettes						1,793	—
Tar and pitch						65	4,043
Benzol, etc.						219	1,137
Carbolic acid						147	27
Denmark—							
Coal	2,195,220	1,870,757	2,142,731	2,408,482	1,100,005	2,522,333	3,379,989
Brown coal	—	197	58,170	184,727	22,097	—	—
Coke	609,424	392,287	359,727	303,013	163,865	1,149,402	626,788
Briquettes	219,745	26,739	30,097	34,591	2,857	—	—
Brown coal briquettes	179,269	269,991	626,470	524,930	47,092	62,094	249,511
Tar	30	4	13	821	674	5	—
Pitch	1,109	1,541	2,271	2,212	181	974	2
Carbolineum	66	414	408	566	93	46	3
Benzol	3,323	5,771	3,841	2,272	434	2,674	1,074
Toluol	90	—	—	192	94	2,121	785
Carbolic acid	—	4	7	46	15	165	178
Finland (total imports)—							
Anthracite	156	—	2,853	823	—	8,957	1,075
Other coal	930,828	769,383	1,046,172	724,265	71,985	676,776	1,278,521
Coke	116,666	117,638	238,041	165,662	37,555	237,415	195,707
Tar	49	332	31	3,686	270	156	2,382
Carbolic acid, creosote and cresol	110	73	134	53	51	310	2,018
Naphthalene	267	125	35	60	—	59	17
Benzol	180	168	330	309	98	261	763
Carbolineum	24	22	20	5	—	15	271
France—							
Anthracite	84,800	37,691	33,309	4,774	115,013	431,498	512,353
Bituminous	1,531,459	1,547,532	1,373,553	802,359	3,044,552	8,428,770	12,208,208
Lignite	4	512	—	—	—	7,296	33,206
Coke	70,625	152,499	425,605	346,747	358,466	1,183,962	1,895,342
Coal briquettes	56,835	3,333	72,134	7,716	131,465	26,909	3,716
Brown-coal briquettes	169	23,922	190,763	56,732	174,481	608,524	227,368
Tar and pitch	35,310	55,161	39,465	13,604	156,262	437,671	519,193
Naphthalene	—	298	304	134	1,954	274	—
Carbolic acid, etc.	—	—	—	—	—	251	49
Anthracene	483	—	—	265	—	1,588	380
Benzol	1,858	7,558	1,864	229	2,098	15,554	14,541
Heavy coal-tar oils	47	138	—	2,474	1,551	1,884	3,449
Germany—							
Coal	3,634,181	2,159,920	1,449,400	(b) 75,102	} (a)	} (a)	} (a)
Brown coal	55,598	51,548	24,187	(b) 2,988			
Coke	3,945,839	2,974,990	2,413,485	(b) 903,337			
Coal briquettes	216,159	81,121	40,018	(b) 2,436			
Brown-coal briquettes	—	—	—	(b) —			
Tar and pitch	9,736	5,085	6,421	(b) 3,189			
Naphthalene	10,421	5,421	7,878	(b) 3,519			
Carbolic acid	2,639	492	455	(b) 150			
Cresol	—	15	—	—			
Light coal-tar oils, etc.	23,314	22,014	38,435	(b) 16,412			
Heavy coal-tar oils, etc.	53,305	44,987	53,197	(b) 18,074			

(a) Information not available.

(b) January to July only.

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

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947			
FOREIGN COUNTRIES (Cont.)										
Greece—										
Coal	(a)	(a)	(a)	(a)	(a)	146,287	174,124			
Coke							3,359			
Naphthalene							943			
Pitch							174			
Benzol						204	24			
Hungary—										
Coal	(a)	(a)	(a)	(a)	(a)	116,875	129,059			
Coke	(a)	(a)	(a)	(a)	(a)	203,434	415,902			
Iceland—										
Coal	94,721	134,051	138,606	129,646	114,975	93,959	(a)			
Coke	3,495	547	464	1,813	135	30	(a)			
Tar	83	382	246	417	906	260	(a)			
Carbolineum	18	35	1	5	—	i	(a)			
Italy (b)—										
Anthracite	(a)	(a)	(a)	(a)	(a)	(a)	(a)			
Bituminous							8,691,076			
Lignite							(a)			
Coke							257,347			
Tar and tar oils							32,060			
Naphthalene, etc.							5,413			
Netherlands—										
Coal (b)	1,654,235	1,241,495	1,227,917	(a)	(a)	2,901,587	3,718,189			
Brown coal	1,624	577	841				—	—	—	—
Coke	18,142	945	913				—	—	—	1,257
Briquettes	8,699	1,165	715				—	—	—	10,153
Brown-coal briquettes	148,195	150,269	143,696				—	—	—	192,020
Tar	1	295	4,139				—	—	—	2,961
Creosote	1	6	24				—	—	—	36
Naphthalene	260	—	—				—	—	—	—
Carbolic acid	5	12	18				—	—	—	326
Benzol	3	1	16				—	—	—	—
Toluol and xylol	1	33	42	—	—	—	687			
Carbolineum	21	5	80	—	—	—	357			
Solvent naphtha	—	—	—	—	—	—	1			
Asphalt	47	18	83	—	—	—	63			
Norway—										
Coal	1,059,492	1,166,720	1,357,859	1,114,185	990,857	1,481,680	1,999,454			
Coke	—	—	—	—	—	55,694	(a)			
Tar and pitch, etc.	10,212	10,423	6,267	6,252	2,224	8,826	(a)			
Pitch coke	17,791	18,415	14,971	16,356	7,166	11,283	(a)			
Creosote, etc.	944	1,243	1,327	873	474	6,088	(a)			
Portugal—										
Anthracite	9,332	30,000	23,592	990	18,342	38,767	40,903			
Other coal	627,196	437,165	482,865	564,880	463,208	527,197	912,816			
Coke	22,047	13,536	21,888	7,244	5,795	35,382	17,644			
Briquettes	16,951	2,260	97	109	—	2,053	(a)			
Tar and pitch	2,970	3,560	7,490	4,741	3,022	8,975	6,446			
Carbolic acid	3	3	2	36	29	2	27			
Naphthalene	199	71	328	120	31	236	122			

(a) Information not available.

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

Year	long tons
1941	228,270
1942	179,939
1943	146,504
1944	(a)
1945	(a)
1946	181,014
1947	232,451

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

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Spain—							
Bituminous	70,083	81,263	105,550	64,055	52,523	72,149	17,004
Other coal	—	157	—	—	—	—	—
Coke	68,658	98,376	65,545	24,696	464	1,764	—
Briquettes	3,302	1,776	—	—	—	—	6
Tar and pitch	6,448	6,854	6,497	48,107	8,452	45,290	22,417
Benzol, toluol, xylol, etc.	—	1	—	—	—	668	3,002
Sweden—							
Anthracite	86,706	66,467	84,864	45,862	—	—	517,528
Other coal	3,023,416	2,595,412	3,419,868	2,265,439	267,943	2,404,772	3,577,189
Coke	1,617,278	1,166,887	1,222,645	1,194,520	88,021	995,335	889,523
Briquettes	82,833	90,725	96,880	43,793	745	58,262	636,222
Tar, pitch, etc.	610	658	611	599	725	3,228	2,958
Benzol, etc.	2,527	2,107	2,777	177	2,204	9,601	4,048
Carbolic acid, etc. ..	241	89	82	94	276	1,049	2,033
Switzerland—							
Coal	1,199,688	1,165,951	1,128,067	803,532	207,730	1,079,362	1,695,169
Lignite	190,099	63,791	144,593	32,035	399	25,601	68,558
Coke	529,044	358,888	303,925	309,642	19,506	283,445	394,464
Briquettes	332,997	290,095	338,137	202,423	7,488	123,105	323,673
Tar and pitch	9,902	30,180	93,066	61,660	16,325	117,700	50,147
Creosote, etc.	221	96	433	1,067	378	4,663	1,760
Naphthalene, etc. ..	3,927	3,424	2,264	1,306	2,959	9,322	13,303
Algeria—							
Coal (b)	478,647	515,828	658,810	945,574	216,311	707,727	564,180
Coke	5,359	4,871	2,871	4,562	2,424	3,378	2,337
Briquettes	18,874	3,501	58,017	54,542	6,868	15,953	8,755
Tar and pitch	26	1,131	5,391	11,117	2,953	7,212	5,105
Benzol, toluol, etc. ..	13	45	6	—	1	3	81
Naphthalene	23	5	—	—	—	174	13
Heavy oils	—	—	—	2	—	211	82
Angola—							
Coal	35,362	5,975	3,029	5,576	(a)	(a)	(a)
Coke	113	295	221	167	(a)	(a)	(a)
Tar and pitch	153	258	158	172	(a)	(a)	(a)
Belgian Congo—							
Coal	} (c) 130,000	} (c) 190,000	152,061	173,627	94,935	} (a)	} (a)
Coke			8,0213	91,627	67,994		
Briquettes			480	—	—		
Tar			369	297	227		
Cameroon (French)—							
Coal and briquettes ..	2,155	2,704	3,148	3,015	149	4,953	10,726
Canary Islands—							
Coal (e)	(a)	79,338	106,428	118,761	126,442	111,839	186,794
Cape Verde Islands—							
Coal (e)	22,231	8,234	8,755	19,244	(a)	(a)	(a)
Ceuta—							
Coal (e)	(a)	120,442	160,911	187,362	231,295	225,834	186,577
Egypt—							
Coal	402,256	558,019	185,901	306,717	257,658	191,964	} (a)
Coke	6,304	3,648	1,491	4,689	4,915	2,802	
Briquettes	(d) 3,111	—	—	—	—	—	
Tar and pitch	—	40	6	10	1	26	
Naphthalene	191	86	16	38	68	186	
Coal-tar residues	13	7	23	—	—	44	
French Equatorial Africa—							
Coal and briquettes ..	2,452	5,089	7,097	5,041	3,842	8,315	10,501

(a) Information not available.

(b) Total imports (for bunkering purposes) were as follows (long tons): 1941—497,194; 1942—529,365; 1943—909,845; 1944—47—(a).

(c) Estimated.

(d) Excess of re-exports.

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

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

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
French Somaliland—							
Coal and briquettes ..	5	1,199	6,100	5,636	—	17,407	17,321
French Togoland—							
Coal and briquettes ..	6	51	—	3,225	4	4,343	31
French West Africa—							
Coal and briquettes (c)	19,616	44,859	59,716	75,607	102,317	112,665	99,167
Madagascar—							
Coal	9,267	5,889	10,207	17,725	31,074	36,370	30,729
Melilla—							
Coal (c)	(a)	14,521	11,283	12,531	18,007	18,769	16,797
Morocco (French)—							
Coal	34,907	69,090	127,361	134,154	113,445	106,702	159,191
Coke	2,516	4,703	632	4,281	1,782	1,083	2,898
Briquettes	154	—	—	—	—	—	—
Tar	165	117	30	—	52	192	81
Morocco (Spanish)—							
Anthracite	(a)	(a)	(a)	1,854	3,970	2,593	1,533
Other coal	(a)	(a)	(a)	(a)	(a)	3,778	5,630
Coke	(a)	(a)	(a)	(a)	(a)	65	23
Tar	(a)	(a)	(a)	6	23	15	13
Mozambique—							
Coal	139,667	134,071	133,328	148,983	160,623	(a)	(a)
Coke	78	81	156	320	125		
Tar and pitch	486	(a)	(a)	(a)	(a)		
Naphthalene	4	7	25	8	7		
Reunion—							
Coal	2,291	—	39	1,433	1,210	3,595	10,928
Tunis—							
Coal	89,001	93,392	43,746	119,192	204,605	282,299	273,700
Coke	4,655	4,546	1,204	89	382	48	2,383
Briquettes	2,418	97	—	—	—	—	17
Tar	1	4	—	5	2,172	1	213
Costa Rica (b)—							
Coal	(e) 1,400	(e) 20	(e) 300	(e) 2,300	94	87	(a)
Cuba (b)—							
Coal	144,742	126,919	222,296	143,869	278,099	107,865	(a)
Coke	37,063	16,000	14,115	21,881	13,391	(a)	(a)
Creosote oil	161	68	74	237	147	(a)	(a)
Tar	12,211	99	313	307	185	(a)	(a)
Benzol	229	104	—	266	56	(a)	(a)
Dominican Republic (b)—							
Coal, coke, briquettes, etc.	(e) 200	(e) 140	(e) 200	(e) 1,800	930	(a)	(a)
French West Indies—							
Guadeloupe—							
Coal	9,311	89	2,539	6,222	34	2,190	3,631
Martinique—							
Coal	9,355	7,458	2,530	7,801	2,947	6,208	—
Coke	149	4	2	1	1	864	1
Guatemala—							
Coal	(e) 400	(e) 130	(e) 160	(e) 300	(a)	(a)	(a)
Coke							
Tar and pitch							
Haiti—							
Coal	(e) 10	(e) 30	(e) 20	(e) 60	(d) 61	(d) 5	(d) 5

(a) Information not available.

(b) Total imports.

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

(d) Years ended September 30 of that stated.

(e) Exports from the United States to the country indicated.

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

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Mexico—							
Coal	693	774	2,046	2,078	990	756	} (a)
Coke	10,725	2,080	1,257	1,985	2,686	2,323	
Tar and pitch	97	74	34	73	96	56	
Benzol	2,047	2	3	5	38	181	
Creosote	2,428	86	317	419	2,258	245	
Nicaragua (total imports)—							
Coal and coke	94	7	229 (c)	150	60	7	58
St. Pierre and Miquelon—							
Coal	7,871	9,728	9,975	5,193	6,973	11,614	12,760
United States—							
Anthracite	66,669	125,103	95,442	7,581	133	8,532	9,241
Bituminous	284,933	395,273	601,517	494,179	324,766	285,020	235,121
Lignite	3,327	5,689	2,157	1,336	11,921	7,103	2,268
Slack and culm	59,998	43,772	69,708	68,071	70,400	91,824	20,553
Coke	239,184	97,160	87,585	56,254	46,396	46,592	92,845
Briquettes	145	298	136	463	645	579	346
Tar and pitch	5,629	1,765	1,087	712	(a)	(a)	5,466
Benzol	—	10,218	108,174	178,930	108,792	7,974	3,516
Cresylic acid	9,530	5,377	10,326	8,647	7,343	10,300	9,936
Creosote oil	64,140	30,274	8,080	12,621	8,877	9,294	136,897
Naphthalene	719	79	274	229	(a)	(a)	1,055
Carbolic acid	1	—	—	—	(a)	(a)	1
Argentina—							
Coal	996,380	510,505	566,530	607,076	755,745	1,126,294	} (a)
Coke	39,235	29,146	34,847	9,893	30,513	7,450	
Briquettes	11,113	11,613	6,367	—	—	—	
Tar and pitch	33	115	14	6	329	316	
Naphthalene	1,072	435	1,264	420	429	1,867	
Carbolic acid	890	735	302	253	1,188	638	
Creolin	1	15	—	—	—	1	
Heavy coal-tar oils	1,862	1,084	681	1,005	758	1,824	
Bolivia—							
Coal	(c) 28,000	(c) 29,000	(c) 18,000	(c) 24,000	(a)	(a)	(a)
Brazil (total imports)—							
Coal	996,695	583,399	529,649	460,280	687,250	1,021,118	1,565,982
Coke	24,234	23,510	42,846	24,066	17,240	23,111	40,963
Briquettes	20,308	—	5,649	—	—	9,961	(a)
Carbolic acid	116	46	13	81	245	75	(a)
Naphthalene	103	17	1,065	175	6	21	(a)
Chile—							
Anthracite	46	99	—	132	93	62	} (a)
Other coal	67,815	17,057	19,327	15,232	452	3,405	
Coke	8,834	10,545	5,390	9,984	5,214	7,070	
Naphthalene	56	23	56	73	62	24	
Carbolic acid and cresol	898	1,535	1,362	1,003	1,131	993	
Creolin, etc.	14	9	3	49	109	156	
Colombia—							
Coal	450	13	152	—	21	57	(a)
Tar and pitch	75	30	14	(a)	79	160	(a)
Naphthalene	25	4	7	(a)	8	15	(a)
Cresol, creolin, etc.	66	16	32	51	60	19	(a)
Dutch Guiana—							
Coal	(c) 4,000	(c) 7,000	(c) 2,000	(c) 4,000	(a)	(a)	(a)
French Guiana—							
Coal	1,072	198	—	—	345	24	54

(a) Information not available.

(b) Total imports.

(c) Exports from the United States to the country indicated.

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

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Peru—							
Coal	860	439	579	49	701	370	} (a)
Coke	1,290	502	2,869	493	1,363	890	
Tar	42	19	15	15	18	18	
Naphthalene	23	10	54	43	8	13	
Uruguay—							
Coal	305,969	147,754	281,097	57,235	(a)	(a)	(a)
Coke	(a)	1,650	9,390	1,891	(a)	(a)	(a)
Naphthalene	(a)	(a)	17	31	(a)	(a)	(a)
Venezuela—							
Coal	7,539	8,944	5,433	(a)	(a)	(a)	(a)
Naphthalene	11	5	20	(a)	(a)	(a)	(a)
China—							
Coal	1,291,059	11	—	51	199	71,951	212,029
Coke	(a)	(a)	(a)	(a)	(a)	1,053	4,507
Tar and pitch	(a)	(a)	(a)	(a)	(a)	343	287
French Indo-China—							
Coal	} (a)	(a)	(a)	(a)	(a)	(a)	7,408
Coke							
Tar and pitch							
Naphthalene							
Iran (total imports) (b)—							
Coal, coke and peat	100	436	128	(a)	(a)	(a)	(a)
Iraq—							
Coal	1,677	864	31	30	} (a)	(a)	(a)
Coke	354	560	1,354	72			
Tar and pitch	25	78	69	—			
Japan (total imports)—							
Coal	9,652,000	8,704,000	6,020,000	3,272,000	(d) 307,072	—	(d) 32,532
Korea (total imports)—							
Coal	2,412,290	2,876,835	2,888,646	2,937,856	(a)	(a)	(c) 627,960
Manchuria—							
Coal	2,659,326	2,772,509	2,919,146	2,075,681	(a)	(a)	(a)
Portuguese India—							
Coal	3,680	6,231	6,544	6,123	6,178	(a)	(a)
Coke	42	18	10	5	—	(a)	(a)
Briquettes	19,335	17,048	14,598	12,708	(a)	(a)	(a)
Syria and Lebanon—							
Anthracite	15,793	37,963	25,211	—	34,472	24,874	} (a)
Other coal	—	—	6,365	32,500	—	—	
Coke	6	—	8	—	14	1	
Tar	1	1	—	—	—	1	
Turkey—							
Coal, peat and briquettes	—	—	15	58	3,470	218	—
Cresol, naphthalene, etc.	(a)	(a)	(a)	230	342	166	498
French Oceania—							
Coal	2,007	2,000	930	7,439	5,311	3,045	6,436
New Caledonia—							
Coal	136,890	113,536	174,054	150,386	113,747	53,041	35,670

(a) Information not available.

(b) Years ended March 20 following year stated. Figures for 1938 are for nine months ended March 20, 1939.

(c) Exports from Japan to Korea.

(d) Including coke.

COBALT

PRODUCTION OF COBALT*

(Cwt.)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Northern Rhodesia ..	14,902	17,826	19,208	18,891	13,335	9,348	7,627
Canada (c)	2,351	749	1,571	324	974	660	5,113
Burma (b)	(d) 2,100	(a) 215	(a) 190	(a) 175	(a) 184	(a) 203	(a) 162
Australia	262	215	190	175	184	203	162
FOREIGN COUNTRIES							
Finland	1,600	1,600	1,555	1,693	1,653	1,988	2,008
Germany (e)	2,778	2,008	2,736	1,260	(a) 8	(a) —	(a) —
Italy	4	6	10	8	8	—	—
Sweden	—	—	—	—	183	—	—
Belgian Congo	45,198	32,576	40,568	36,948	55,200	42,400	69,000
Morocco (French)	1,280	53	4,252	4,783	1,929	4,720	7,280
United States	4,512	6,565	6,537	7,397	9,818	(f) —	(f) —
Bolivia (exports)	30	14	4	—	—	—	—
Chile	49	2	57	100	28	—	—

* Metal content of ores, alloys or metal.

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

(a) Information not available.

(b) Estimated cobalt content of nickel-speiss exported.

(c) Metal recovered from smelter products plus cobalt contained in cobalt residues exported. The figures for 1942 to 1944 exclude the content of ores placed on United States Government stock piles at Deloro, Ontario. This is recorded as production only when exported or recovered in Canadian smelters.

(d) Nine months ended March 31, 1942.

(e) Partly derived from imported material.

(f) Figures are not available for publication. Production was, however, substantially lower in 1946 than in 1945 and 1947 was higher than 1946.

EXPORTS OF COBALT, ETC.

(Domestic Produce)

(Cwt.)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947	
BRITISH COUNTRIES								
United Kingdom—								
Cobalt and cobalt alloys	72	86	206	8	348	1,435	698	
Cobalt oxide	193	6	12	24	1,043	1,829	54	
Northern Rhodesia—								
Cobalt alloy	33,446	46,911	46,482	47,964	34,268	26,125	18,196	
Canada—								
Cobalt ore (<i>Co content</i>)	2,497	1,444	1,456	231	580	429	797	
Cobalt	9,117	8,425	8,135	9,010	5,208	4,558	360	
Cobalt alloys	1,478	2,027	1,913	1,577	2,866	997	533	
Cobalt oxides and salts	3,154	2,079	598	4,131	248	204	374	
Australia—								
Cobalt ore	20	—	40	—	—	—	—	
FOREIGN COUNTRIES								
Belgium-Luxemburg E.U.								
(<i>b</i>)—								
Cobalt oxide and pigments	183	—	—	29	(<i>a</i>)	(<i>a</i>)	(<i>a</i>)	
Cobalt salts	—	—	—	16	(<i>a</i>)	(<i>a</i>)	(<i>a</i>)	
Finland—								
Cobalt ore	(<i>a</i>)	(<i>a</i>)	2,453	1,579	37	4	232	
Cobalt	(<i>a</i>)	(<i>a</i>)	1,108	1,399	1,516	2,136	682	
Cobalt oxide	(<i>a</i>)	(<i>a</i>)	64	122	66	38	—	
France—								
Cobalt salts	45	112	18	—	—	12	25	
Sweden—								
Cobalt	—	16	14	21	2	—	98	
Belgian Congo—								
Cobalt-copper ingots ..	(<i>a</i>)	(<i>a</i>)	96,217	87,359	129,390	93,736	160,662	
Morocco (French)—								
Cobalt ore	15,846	3,149	66,139	20	16,732	62,812	30,845	
United States—								
Cobalt ore	(<i>a</i>)	{	9	—	—	13	—	
Cobalt alloys and scrap..			810	3,294	3,111	17	141	5
Cobalt oxide			108	131	822	(<i>a</i>)	(<i>a</i>)	(<i>a</i>)
Cobalt salts			134	186	358	741	(<i>a</i>)	(<i>a</i>)
Bolivia—								
Cobalt ore (<i>Co content</i>)	30	14	4	—	—	—	—	
Chile—								
Cobalt ore	10,551	28	207	—	—	—	—	
Cobalt salts	—	—	233	—	11	4	(<i>a</i>)	

(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.):—1941–1944 Nil; 1945—4,159; 1946—(*a*); 1947—24,339.

IMPORTS OF COBALT, ETC.

(Less Re-exports)

(Cwt.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Rondels, pellets and squares	2,106	5,090	5,172	5,557	3,906	5,179	6,341
Other kinds, including alloys	2,696	7,112	22,498	25,079	13,281	9,197	18,021
Cobalt oxide	1,727	657	—	2,004	3,279	3,365	4,419
Other compounds ..	(a)	(a)	(a)	(a)	(a)	(a)	2,516
Canada—							
Ore	41,172	38,716	19,967	32,824	21,338	10,446	—
Cobalt oxide	—	1	—	15	144	145	6
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Cobalt oxide and pigments	207	128	26	47	(a)	(a)	(a)
Cobalt salts	30	—	—	—	(a)	(a)	(a)
Czechoslovakia—							
Zaffre and smalt ..	(a)	(a)	(a)	(a)	(a)	26	4
France—							
Cobalt ore	—	3,146	—	(a)	10,669	13,862	4,518
Matte and speiss ..	—	—	—	—	—	3,455	4,287
Ingots	—	—	12	4	606	2,447	2,051
Cobalt oxide, including zaffre and smalt ..	—	—	118	—	3	102	10
Cobalt salts	—	2	16	—	—	285	709
Italy—							
Cobalt oxide	315	1,183	63	(a)	—	344	356
Sweden—							
Cobalt	594	492	229	301	284	1,567	1,780
Mexico—							
Cobalt	—	—	11	23	—	2	(a)
United States—							
Cobalt ore	110,842	78,248	109,404	(c) 14,536	7,678	(a)	10,910
Co content	38,633	29,467	17,814	(c) 4,662	974	4,585	2,374
Cobalt metal	4,947	1,324	(b) 405	653	8,451	17,282	68,602
Cobalt oxide	339	(a)	526	2,014	1,177	480	364
Cobalt salts	44	2	1	1	(a)	(a)	5
Argentina—							
Cobalt	(a)	199	94	302	27	23	(a)
Japan—							
Oxide	(a)	(a)	(a)	(a)	(a)	(a)	2,775
Turkey—							
Cobalt salts	(a)	(a)	(a)	—	—	58	60

(a) Information not available.

(b) Excess of re-exports.

(c) Total imports. Re-exports of ore were 5,444 cwts., but Co content is not available

COPPER

PRODUCTION OF COPPER ORE

(In terms of metal)

(Long tons)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Great Britain	24	17	23	27	20	22	20
Northern Rhodesia (e) ..	228,254	246,606	250,998	220,853	194,014	182,289	192,500
Southern Rhodesia	40	20	20	5	10	10	10
South West Africa	—	—	—	—	—	—	(c) 4,980
Union of South Africa ..	20,411	24,195	22,372	22,508	23,638	26,578	28,800
Canada (d)	287,195	269,492	256,781	244,228	212,015	164,257	201,663
Newfoundland	6,545	5,576	5,579	4,942	4,619	4,388	3,792
Burma	(f) 3,357	(g) 2,906	—	—	—	—	—
Cyprus (h)	90	90	90	130	500	9,600	22,100
India	6,800	6,600	6,800	6,600	6,550	6,500	6,350
Australia	20,859	20,402	24,326	28,056	24,520	17,755	13,123
New Zealand	—	—	—	—	—	60	—
TOTAL	570,000	580,000	570,000	530,000	470,000	410,000	473,000
FOREIGN COUNTRIES							
Austria	(a)	(a)	(a)	7,800	(a)	103	317
Bulgaria	1,900	(a)	(a)	(a)	(a)	(a)	(a)
Finland	15,408	16,464	19,702	16,754	15,808	13,980	15,356
France	552	312	147	81	322	348	361
Germany	24,000	24,000	23,000	17,000	(a)	(i) 1,767	(i) 235
Italy	1,800	2,000	2,000	1,500	700	200	300
Norway	17,704	15,227	15,991	14,234	5,121	12,056	14,475
Portugal (b)	266	2,000	1,200	2,000	2,000	3,000	3,500
Spain (b)	5,500	7,000	8,000	6,000	7,000	8,500	8,000
Sweden	13,179	17,771	17,550	15,866	14,690	15,119	12,936
U.S.S.R. (estimated) ..	(a)	(a)	(a)	(a)	120,000	130,000	140,000
Yugoslavia (b)	(a)	(a)	(a)	(a)	30,000	30,000	30,000
Angola	—	230	220	70	(a)	90	280
Belgian Congo (smelter) ..	159,606	163,319	154,373	162,871	157,691	141,613	148,458
Morocco (French)	133	256	223	625	382	60	40
Cuba	9,682	8,774	6,304	6,480	9,528	12,590	11,044
Honduras	—	40	21	—	(a)	(a)	(a)
Mexico (d)	47,946	50,092	48,988	40,647	60,706	60,089	62,489
United States (d)	855,490	964,340	973,945	868,347	690,084	543,515	756,753
Argentina	150	107	270	(a)	(a)	(a)	(a)
Bolivia (exports)	7,159	6,275	5,916	6,073	6,001	6,030	6,142
Chile (d)	461,284	476,703	489,303	490,456	462,756	345,336	419,931
Ecuador	2,902	2,700	2,700	3,629	3,764	2,046	(a)

(a) Information not available.

(b) Estimated.

(c) Including ore sorted ex dumps.

(d) Amount estimated as recoverable.

(e) Smelter.

(f) Year ended June 30 of year stated.

(g) Nine months ended March 31, 1942.

(h) Estimated copper content of pyrites. The estimated copper content of copper concentrates produced from pyrites was as follows (long tons): 1941-1945—Nil; 1946—4,700; 1947—12,100.

(i) British Zone only.

PRODUCTION OF COPPER ORE (Cont.)

Producing Country	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Peru	36,299	34,774	32,879	31,894	31,412	24,204	22,137
Formosa	5,532	4,987	5,925	3,922	(a)	(a)	(a)
Japan	76,807	81,752	93,232	85,472	27,542	14,739	21,542
Korea (Southern)	950	1,140	2,020	2,680	1,230	(a)	(a)
Philippine Islands	(b) 9,700	(a)	(a)	(a)	(a)	(a)	(a)
Saudi Arabia	8	10	12	1	—	9	249
Turkey (smelter)	10,761	8,127	9,567	10,781	9,692	9,891	9,921
TOTAL	1,950,000	2,070,000	2,100,000	2,000,000	1,650,000	1,380,000	1,690,000
WORLD'S TOTAL	2,520,000	2,650,000	2,700,000	2,500,000	2,120,000	1,790,000	2,170,000

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.

(b) Estimated.

METAL PRODUCTION OF COPPER

(Long tons)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Northern Rhodesia ..	228,254	246,606	250,998	220,853	194,014	182,289	192,500
Union of South Africa ..	19,646	23,499	21,800	22,043	23,291	26,166	28,568
Canada (b)	250,471	240,188	229,065	220,512	195,295	148,518	177,159
India	6,019	5,874	6,100	5,730	6,000	6,311	5,931
Australia	21,668	24,609	20,457	19,898	20,498	22,659	19,303
TOTAL	526,000	541,000	529,000	489,000	439,000	386,000	423,500
FOREIGN COUNTRIES							
Austria	(a)	(a)	(a)	4,500	(a)	(a)	(a)
Belgium	15,600	16,700	18,000	4,200	(a)	(a)	(a)
Finland	8,645	13,054	15,290	8,618	15,423	24,483	25,370
France	123	138	81	19	25	2	(a)
Germany	46,200	40,500	36,000	26,000	(a)	(d) 18,866	(d) 18,043
Italy	2,870	3,128	(e) 1,420	226	2,120	(a)	(a)
Norway	4,938	4,524	1,982	922	1,665	7,430	7,795
Portugal	(a)	(a)	(a)	151	168	81	2
Spain (g)	4,252	6,968	9,094	9,330	6,496	9,094	7,795
Sweden	11,691	14,907	15,687	14,824	17,960	14,242	14,032
U.S.S.R. (estimated)	125,000	140,000	140,000	130,000	120,000	130,000	140,000
Yugoslavia	(i) 22,600	(i) 31,500	(i) 26,600	(i) 22,300	(j) 20,000	(j) 30,000	(j) 30,000
Belgian Congo	159,606	163,319	154,373	162,871	157,691	141,613	148,458
Mexico	40,268	44,023	42,334	32,453	52,445	51,544	54,945
United States (c) ..	999,310	1,093,904	1,086,483	1,006,235	771,778	582,876	843,476
Chile	449,520	470,189	481,592	482,695	455,409	353,294	409,194
Ecuador	—	—	3,600	3,629	3,764	2,046	(a)
Peru	27,842	29,008	27,769	26,463	25,146	19,286	17,542
China	1,566	1,246	492	1,014	1,160	(a)	(a)
Japan (f)	85,623	92,258	109,285	84,724	39,577	22,901	36,235
Korea	3,746	4,262	4,482	5,111	(h) 419	(h) 158	(a)
Turkey	10,761	8,127	9,567	10,781	9,692	9,891	9,921
TOTAL	2,040,000	2,180,000	2,180,000	2,040,000	1,680,000	1,420,000	1,765,000
WORLD'S TOTAL	2,570,000	2,720,000	2,710,000	2,520,000	2,120,000	1,810,000	2,188,000

(a) Information not available.

(b) Copper content of blister and anode copper.

(c) Secondary metal was recovered as follows (long tons) : 1941—648,568 ; 1942—828,353 ; 1943—969,685 ; 1944—849,055 ; 1945—898,675 ; 1946—717,452 ; 1947—858,697.

(d) British Zone only. Probably includes some secondary metal.

(e) January to June only.

(f) Figures for 1941 to 1944 refer to smelter production. Later years to refinery production. The comparable figures for refinery were as follows (long tons) : 1941—98,936 ; 1942—103,483 ; 1943—120,904 ; 1944—97,389.

(g) Revised. Figures refer to blister copper and exclude electrolytic copper which is, in part, obtained from blister copper.

(h) Southern Korea only.

(i) U.S. Bureau of Mines.

(j) Estimated.

EXPORTS OF COPPER, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Ore, matte, etc.	—	—	—	—	—	56	—
Bars and ingots	3,552	278	112	388	5,990	19,217	20,215
Scrap	25	—	—	—	150	308	61
Plates, sheets, etc.	3,296	2,411	1,577	1,675	3,672	16,819	17,420
Rods and wire	10,512	4,906	2,463	1,337	7,516	29,859	24,545
Tubes	1,605	877	698	1,154	1,633	4,597	4,409
Sulphate	31,261	24,761	35,542	20,333	44,317	52,152	25,283
Northern Rhodesia—							
Blister and electrolytic . .	215,619	246,479	265,153	226,702	174,269	180,689	185,896
South West Africa—							
Copper-lead ore (Cu content) (e)	—	1,520	3,256	—	—	(a)	(a)
Copper matte (Cu content) (e)	—	1,444	—	—	—	(a)	(a)
Tanganyika Territory—							
Ore	11	8	3	—	(£1,330)	—	—
Union of South Africa—							
Ore and concentrates	—	—	—	—	—	529	490
Ingots, bars, plates, etc. . .	17,859	20,608	22,997	18,843	23,781	25,257	28,855
Canada—							
Ore, matte, etc. (Cu content)	42,651	30,399	32,330	24,990	17,227	15,739	25,977
Blister	10,681	5,763	3,816	—	—	—	—
Scrap	1,373	601	506	860	1,284	1,099	5,085
Ingots, etc.	112,879	88,051	57,440	120,744	115,490	90,549	78,106
Rods, sheets, etc.	24,420	23,947	21,935	16,128	6,501	14,023	17,130
Tubes						189	712
Newfoundland (c)—							
Concentrates	23,683	(d) 14,793	20,498	24,251	17,944	17,631	16,604
British India—							
Matte, etc.	61	17	15	8	7	2	(a)
Malaya (including re-exports)—							
Ingots, sheets, wire, etc. . .	(a)	(a)	(a)	(a)	(a)	86	47
Burma—							
Matte, etc.	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Cyprus—							
Concentrates (Cu content) . .	—	—	5,095	1,400	—	70	12,481
Hong Kong (including re-exports)—							
Bars, sheets, tubes and wire	(a)	(a)	(a)	(a)	(a)	160	77
Australia—							
Ore, etc. (Cu content) (f) . .	758	1,668	595	359	—	—	179
Matte	—	—	—	—	—	—	—
Blocks and ingots	—	—	—	—	—	3,621	125
Bars, sheets, wire, etc. . . .	161	58	129	212	135	1,156	503

(a) Information not available.

(b) Estimated.

(c) Years ended June 30 of year following for 1941 and ended March 31 subsequently.

(d) Nine months ended March 31, 1943.

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

(f) Years ended June 30 of that stated.

EXPORTS OF COPPER, ETC. (Cont.)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Ore	—	—	—	—	—	1	(a)
Rough copper and scrap	9,130	5,040	27,548	26,034	} (a)	(a)	(a)
Sheets, wire, etc. ..	793	156	190	181			
Sulphate	2,362	11,153	3,793	1,852			
Bulgaria—							
Ore, matte, etc. .. .	8,358	23,213	14,928	11,517	25,286	16,890	8,863
Rough copper and scrap	104	282	574	26	(a)	(a)	(a)
Sheets and rods .. .	168	8	11	—	(a)	(a)	(a)
Czechoslovakia—							
Sheets, rods, wire, etc. . .	} (a)	(a)	(a)	(a)	(a)	8	70
Sulphate						74	76
Denmark—							
Rough copper	15	5	775	8	499	298	(a)
Scrap and alloyed .. .	2,402	2,057	2,025	993	221	71	(a)
Bars, sheets, wire, etc. . .	12	3	—	4	3	20	(a)
Finland—							
Ore	30,021	31,719	35,621	50,065	7,568	—	—
Rough copper and scrap	5,613	7,025	6,697	2,276	1,056	4,642	4,317
Sheets and wire .. .	127	133	51	2	—	237	879
France—							
Ore, matte, etc. .. .	1	1,754	589	269	116	2,297	19
Ingots, alloys, etc. .. .	981	809	343	1,176	114	625	1,518
Scrap	4,962	28,686	3,463	790	2	109	114
Bars, sheets and wire .. .	1,002	8,170	542	33	38	1,299	4,246
Sulphate	3,786	1,554	10	—	11	101	6,768
Germany—							
Ore, including burnt cupreous pyrites .. .	—	1,504	2,872	(b) 815	} (a)	(a)	(a)
Rough copper	15,167	17,384	12,530	(b) 1,236			
Coin and scrap .. .	1,360	5,892	2,290	(b) 98			
Bars, sheets, wire, etc. . .	7,425	7,877	4,898	(b) 678			
Sulphate, including ferrous sulphate .. .	1,814	7,334	9,272	(b) 2,042			
Italy—							
Ore	—	—	—	—	—	—	98
Ingots, scrap and alloys	98	98	1,043	197	—	11,397	5,256
Bars, sheets, wire, etc., and alloys .. .	—	—	—	—	—	3,425	6,387
Netherlands—							
Ingots and bars .. .	388	32	295	} (a)	(a)	1,672	} (a)
Scrap	1,205	934	392			1,659	
Sheets, tubes and wire .. .	139	253	148			110	
Sulphate	—	197	—			—	
Norway—							
Ore	6,919	3,823	12,563	21,134	3,660	187	(a)
Matte	18,149	11,340	12,590	12,264	2,105	12,800	14,494
Cupreous pyrites .. .	267,217	294,491	297,366	260,022	66,316	156,708	227,378
Burnt cupreous pyrites	8,922	394	1,919	1,555	650	4,055	6,077
Rough and refined copper	4,585	3,689	1,935	370	344	6,514	6,191
Scrap, including alloyed	76	151	386	134	381	1,853	1,946
Portugal—							
Cupreous pyrites .. .	36,226	136	11,104	(a)	92,679	238,798	299,110
Rough copper, sheets, etc.	4	19	86	75	52	11	7
Sulphate	78	—	—	1	—	10	21
Spain—							
Ingots, bars and alloyed	28	8	45	45	32	14	6
Sheets, tubes, wire and alloyed .. .	23	25	69	146	46	105	236
Sulphate	321	49	15	317	196	898	363

(a) Information not available.

(b) January to July only.

EXPORTS OF COPPER, ETC. (Cont.)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Sweden—							
Ore	343	—	—	—	—	—	—
Rough copper	3,068	1,397	1,045	430	11	180	2,639
Scrap, including brass ..	440	117	97	37	6	79	108
Sheets, tubes, wire, etc.	905	129	506	27	955	7,818	10,112
Sulphate	2	—	—	—	21	2	—
Switzerland—							
Ore, filings and turnings	27	—	—	—	—	100	235
Bars, ingots, etc. .. .	—	2	—	—	—	112	2
Scrap	—	—	—	—	—	20	110
Sheets, tubes, wire, etc. (b)	945	5	1	16	17	1,054	3,369
Algeria—							
Bars, sheets and wire ..	2	31	33	—	1	1	—
Scrap	126	40	5	1	33	263	641
Sulphate	25	98	148	133	—	—	—
Angola—							
Ore	—	656	634	211	(a)	(a)	(a)
Belgian Congo							
Copper-cobalt ingots ..	187,256	195,703	4,811	4,368	6,470	4,687	8,033
Matte			77,292	58,185	28,309	155,692	9,749
Ingots			33,622	35,889	52,845		68,026
Cathodes			70,000	77,089	79,133		78,700
Egypt—							
Rough copper and scrap	—	—	—	—	—	2,032	(a)
Morocco (French)—							
Ore	—	317	323	5,540	699	905	—
Old and scrap	1	44	8	24	27	166	207
Cuba—							
Ore	27,960	42,596	22,821	19,075	31,268	34,800	33,919
Scrap	—	201	157	—	35	(a)	(a)
Mexico—							
Ore, concentrates, etc. ..	29,537	20,845	22,773	35,562	29,925	29,122	7,525
Rough copper	40,994	50,773	35,526	3,109	48,293	37,828	41,394
Cu content (c)	47,946	49,868	49,186	40,607	58,964	48,767	(a)
United States—							
Ores, matte, blister, etc. (Cu content)	11	3,057	1,107	—	30	21	103
Refined ingots, etc. .. .	92,502	117,327	157,017	61,038	43,360	46,990	132,500
Scrap	2,909	1,085	—	87	119	811	866
Sheets, rods, wire, etc. ..	21,837	15,629	23,072	21,972	(a)	(a)	16,654
Sulphate	30,813	31,412	27,113	25,823	31,221	36,816	30,376
Argentina—							
Ore	20	492	—	—	—	197	(a)
Ingots, sheets and scrap	1	3	—	—	1	—	(a)
Bolivia—							
Ore, etc. (Cu content) ..	7,159	6,275	5,916	6,073	6,001	6,030	6,142
Chile—							
Ores and concentrates ..	77,104	37,255	56,895	58,871	63,898	24,247	(a)
Precipitate	230	—	—	—	16	2	
Cu content (c)	12,526	(a)	(a)	(a)	(a)	(a)	
Ingots—							
Blister	196,037	224,400	207,628	213,342	192,086	135,987	(a)
Electrolytic	236,901	261,893	234,598	261,135	232,286	232,130	
Bars and sheets	326	1,739	2,083	3,862	7,743	2,542	
Sulphate	247	277	215	451	898	54	
Ecuador—							
Concentrates	14,000	7,000	800	900	(a)	(a)	(a)
Blister	—	400	4,000	2,000	(a)	(a)	(a)

(a) Information not available.

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

(b) Including alloys.

EXPORTS OF COPPER, ETC. (Cont.)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Peru—							
Ore (Cu content) ..	7,834	4,604	3,785	5,576	4,467	3,160	} 28,306
Matte, etc. (do.)..	38	2	36	30	314	192	
Bars (do.)..	26,895	29,648	26,819	26,589	23,340	22,326	
Precipitate (do.)..	—	319	—	139	—	—	
Formosa—							
Ore (Cu content) ..	—	3,880	4,723	4,501	660	(a)	(a)
Japan—							
Ingots and blocks ..	48	115	70	860	(a)	(a)	1,968
Bars, rods and tubes ..	340	133	101	35	(a)	(a)	(a)
Plates, sheets and wire ..	3,088	2,034	627	274	(a)	(a)	(a)
Philippine Islands—							
Ore (Cu content) ..	(b) 2,910	(b) 1,145	(b) 7,684	(b) 1,951	(b) 187	(a)	(a)
Syria and Lebanon—							
Ingots and scrap ..	—	14	—	—	277	811	(a)
Turkey—							
Ingots, scrap and alloys	(a)	(a)	(a)	6,168	332	23,191	5,346

(a) Information not available.

(b) Imports into Japan from Philippine Islands.

IMPORTS OF COPPER, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Bars, ingots, etc.—							
Electrolytic	247,059	231,989	293,624	242,736	75,049	166,724	(d) 203,236
Blister	} 202,382	} 209,004	} 201,165	} 208,813	} 68,666	} 103,304	} d158,467
Other							
Scrap .. .. .								287	18	45	32	13	471	1,539
Plates, sheets, etc. .. .	—	78	479	29	4	2	97
Rods	22,901	12,225	10,374	3,057	—	6,602	13,557
Tubes	4	1	14	—	—	—	35
Wire	1	18	10,275	359	73	47	1,792
Eire—							
Bars, sheets, wire, etc. ..	524	491	232	194	1,034	2,220	2,157
Sulphate	4,938	4,231	2,166	2,057	3,197	3,444	2,719
Kenya and Uganda—							
Sheets and wire	5	2	5	9	4	34	56
Mauritius—							
Bars, sheets, scrap, etc. ..	37	41	40	58	59	27	32
Southern Rhodesia—							
Ingots, bars and rods	56	63	70	126	282	83	131
South West Africa—							
Bars, sheets, pipes, wire, etc.	2	—	—	—	1	2	(a)
Tanganyika Territory—							
Sheets and wire	4	7	17	31	36	23	82
Union of South Africa—							
Bars, ingots and slabs	7,703	12,331	16,316	20,420	12,691	8,365	(a)
Plates, sheets and tubes ..	1,507	741	300	944	600	1,236	(a)
Wire	30	3	8	63	66	(a)	(a)
Canada—							
Blocks, pigs and ingots	2	—	—	2	—	—	1
Bars, sheets, wire, etc.	1,763	775	934	626	1,685	2,492	3,300
Scrap	49	16	2	12	44	37	40
Sulphate	3,362	3,327	4,337	3,687	2,910	604	571
British West Indies							
(Barbados)—							
Bars and sheets	(£130)	(£265)	(£4,022)	(£1,022)	(£41)	(£822)	(£692)
British India—							
Ingots, cakes, blocks, etc. ..	5,776	8,092	4,882	—	4,678	6,668	(e) 11,979
Scrap	582	299	15	17	100	2,449	(e) 2,596
Sheets, tubes, wire, etc. .. .	11,455	8,786	11,469	13,351	8,144	8,603	(e) 7,265
Sulphate	852	2,882	67	3,228	99	1,076	(e) 1,548
Copper (government stores)	506	800	369	778	2,567	1,463	(a)
Malaya (total imports)—							
Ingots, sheets, wire, etc. ..	(a)	(a)	(a)	(a)	(a)	684	770
Burma—							
Ingots, etc.	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Sheets, tubes, wire, etc. .. .	(a)	(a)	(a)	(a)	(a)	(c) 21	(a)
Sulphate	(a)	(a)	(a)	(a)	(a)	—	(a)
Cyprus—							
Bars, sheets, etc.	11	3	2	6	23	52	127
Hong Kong (total imports)—							
Bars, sheets, tubes and wire ..	(a)	(a)	(a)	(a)	(a)	136	485
Sulphate	(a)	(a)	(a)	(a)	(a)	79	85

(a) Information not available.

(e) January to November only.

(b) Excess of re-exports.

(c) February to September only.

(d) Total imports.

IMPORTS OF COPPER, ETC. (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES (Cont.)							
Australia—							
Ore and concentrates ..	—	—	—	—	—	—	531
Matte	238	113	—	—	—	—	—
Blocks and ingots ..	40,234	44,242	36,228	1	8	162	1,290
Bars, sheets, wire, etc. ..	9,269	1,979	1,349	1,116	1,558	3,133	2,333
New Zealand—							
Bars, sheets, pipes, etc. ..	1,495	829	638	1,250	1,401	1,313	1,704
Wire (£ N.Z.)	(£138,140)	(£77,549)	(£137,385)	(£328,875)	(£38,949)	(£150,950)	(£252,111)
Sulphate	28	—	50	351	21	4	—
FOREIGN COUNTRIES							
Austria—							
Rough copper and scrap } (a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Bars, sheets, wire, etc. ..							
Belgium-Luxemburg E.U.—							
Ore	1,235	957	3,423	815	332	3,212	(a)
Matte	464	1,284	—	—			
Rough copper	4,952	2,869	4,123	205	62,878	180,075	220,301
Scrap	688	2,961	1,535	333			
Bars, sheets, wire, etc. ..	33	30	15	4			
Sulphate	4	16	1	—	(a)	(a)	(a)
Bulgaria—							
Ore and matte	—	—	—	20			
Rough copper and scrap } (a)	46	37	6	17	(a)	(a)	(a)
Bars, sheet and wire ..	96	108	152	3			
Sulphate	5,329	4,626	6,500	2,302			
Czecho-Slovakia—							
Crude, refined and scrap } (a)	(a)	(a)	(a)	(a)	(a)	2,976	22,518
Sheets, rods, wire, etc. ..	(a)	(a)	(a)	(a)	(a)	879	2,998
Denmark—							
Rough copper	991	1,273	1,240	1,088	674	2,574	
Scrap, including alloyed } (a)	172	441	350	193	338	672	
Bars, sheets, wire, etc. ..	2,046	1,823	2,046	1,153	1,555	7,226	
Sulphate	5	1	468	1,116	871	2,674	
Finland (total imports)—							
Rough and scrap	2,041	299	14	10	3	1,130	2,798
Bars, sheets, tubes and } (a)	2,057	768	727	292	678	276	376
wire							
Sulphate	26	1	7	—	—	—	1
France—							
Ore, matte, etc.	21	202	5	—	—	—	788
Ingots—							
Unrefined	4,783	273	235	4	7,814	19,854	12,068
Refined	7,449	876	23	—	26,752	90,947	104,511
Alloyed	421	918	40	49	5,408	17,155	10,271
Scrap	171	176	107	49	88	4,801	31,716
Bars, sheets and wire ..	200	412	177	59	60	5,701	4,351
Sulphate	12	1,623	3,575	1,518	12,322	26,514	2,384
Germany—							
Ore and burnt cupreous } (a)	327,109	370,365	198,788	(b) 90,417			
pyrites							
Rough copper	65,300	35,870	63,234	(b) 6,154			
Coin and scrap	13,110	26,155	14,317	(b) 1,134	(a)	(a)	(a)
Bars, sheets, wire, etc. ..	4,618	994	1,250	(b) 302			
Sulphate, including fer- } (a)	870	8,218	1,638	(b) 298			
rous sulphate							

(a) Information not available.

(b) January to July only.

IMPORTS OF COPPER, ETC. (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Greece—							
Rough copper and alloys	(a)	(a)	(a)	(a)	22 2 4,847	364 87 825	(a) (a) (a)
Sheets, tubes, alloys, etc.							
Sulphate							
Iceland—							
Bars, tubes, wire, etc. ..	115	134	123	163	186	678	(a)
Italy—							
Cupreous pyrites	98	—	—	—	—	—	—
Ingots, scrap and alloys	14,763	15,747	11,988	217	1,053	25,363	57,438
Bars, sheets, wire, etc., and alloys	5,327	5,743	492	—	—	213	4,773
Netherlands—							
Ingots and bars	594	1,819	202	(a)	(a)	9,600 8 11,523 1,049	9,485 — 15,598 944
Scrap	4	19	6				
Sheets, tubes and wire ..	1,516	1,211	1,033				
Sulphate	166	59	303				
Norway—							
Rough copper	649	575	235	82	700	1,122	1,484
Copper-nickel matte .. .	—	—	—	3,002	1,882	11,138	(a)
Sheets, rods, etc. .. .	279	444	107	—	40	216	791
Tubes (including brass) and wire	1,792	1,065	103	12	2,209	5,832	7,807
Sulphate	297	257	114	59	312	19	(a)
Portugal—							
Ore and concentrates .. .	304	658	255	590	524	205	—
Ingots, wire, alloys, etc.	1,692	2,493	504	580	650	9,119	7,916
Sulphate	991	2,136	11,097	8,458	5,267	239	1,200
Spain—							
Ore	15	—	—	84	84	—	3,972
Precipitate and scrap (b)	24	33	32	84	153	225	2,092
Ingots (b)	1,269	—	43	108	3,899	7,029	3,119
Sheets, tubes and wire (b)	78	285	486	11	34	170	459
Sulphate	5,571	9,900	9,789	2,691	5,629	2,981	11,242
Sweden—							
Ore	—	507	197	26,800	9,242	273	—
Rough copper	715	3,265	1,490	487	14,649	50,673	53,629
Scrap, including brass .. .	377	214	203	83	314	2,277	4,047
Sheets, rods, wire, etc. ..	39	161	23	9	2,013	1,272	2,939
Sulphate	394	104	237	49	10	202	142
Switzerland—							
Ore, filings and turnings	563	304	200	34	363	1,253	977
Bars, ingots, etc. (b) .. .	1,561	1,082	509	825	8,530	25,990	22,392
Scrap (b)	135	72	93	127	419	13,047	2,204
Sheets, tubes, wire, etc.(b)	736	584	247	85	1,086	7,615	5,994
Algeria—							
Rough and scrap	576	99	1,999	3,006	1,045	613	616
Bars, sheets, wire, etc. ..	466	415	54	246	2,202	2,207	1,347
Sulphate	3,499	—	4,504	1,280	1,090	3,453	7,739
Angola—							
Bars, sheets, wire, etc. ..	19	28	11	28	(a)	(a)	(a)
Cameroon (French)—							
Sulphate	10	—	137	110	100	(a)	(a)
Egypt—							
Crude and scrap	234	338	191	300	268	(c) 512	(a)
Bars, sheets, tubes, etc.	660	944	299	214	320	1,055	(a)
Sulphate	302	870	13	142	213	135	(a)

(a) Information not available.

(b) Including alloys.

(c) Excess of re-exports.

IMPORTS OF COPPER, ETC. (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Madagascar—							
Crude, sheets, wire, etc.	7	(a)	—	(a)	(a)	(a)	(a)
Morocco (French)—							
Ingots, sheets and wire (b)	122	225	512	453	581	299	498
Mozambique—							
Bars, sheets, wire and alloys	22	35	36	11	84	(a)	(a)
Tunis—							
Bars, sheets and wire (b)	87	122	30	278	300	450	672
Sulphate	221	148	182	122	156	60	—
Costa Rica—							
Bars, sheets and wire ..	(a)	7	24	25	57	68	(a)
Sulphate	(a)	(a)	(a)	(a)	3,036	5,193	(a)
Cuba (total imports)—							
Ingots and bars	82	34	116	166	281	(a)	(a)
Sheets, tubes and wire ..	304	957	360	496	561	(a)	(a)
Honduras—							
Sulphate	(a)	(a)	(a)	(a)	7,276	8,201	(a)
Mexico—							
Ingots	2,264	3,751	2,534	3,531	4,941	6,295	(a)
Bars, sheets, alloys, etc.	276	311	645	1,466	1,675	1,812	(a)
Sulphate	1,405	2,327	3,662	3,580	2,491	2,679	(a)
United States—							
<i>Cu content of—</i>							
Ore and concentrates	38,195	60,427	61,348	53,459	51,729	27,809	72,301
Matte, precipitate, etc.	39,200	40,035	56,817	34,760	45,068	5,247	2,189
Blister	246,546	236,776	176,917	153,519	230,474	146,251	190,242
Refined ingots, bars and plates	316,015	311,269	354,109	439,322	477,934	136,275	133,699
Scrap	1,886	1,635	2,702	947	1,208	934	5,321
Sulphate	—	—	20	—	2	—	—
Argentina—							
Ingots, sheets including bronze	7,505	10,585	4,782	1,083	8,243	6,503	(a)
Tubes, including bronze	113	(a)	(a)	(a)	(a)	(a)	(a)
Sulphate	3,361	2,255	—	1,225	4,689	2,904	(a)
Brazil (total imports)—							
Electrolytic	(a)	(a)	(a)	(a)	(a)	13,822	} (a)
Rough, scrap, alloys, etc.	13,508	12,604	6,860	9,883	7,599	6,254	
Plates, sheets, alloys, etc.	835	1,129	923	1,449	938	1,447	
Tubes, pipes, wire and alloys	449	114	91	1,275	1,094	3,972	
Sulphate	1,153	1,624	616	967	916	2,143	
Chile—							
Bars, sheets and wire ..	53	28	51	18	—	—	(a)
Colombia—							
Ingots, sheets, etc. ..	143	58	221	102	826	516	(a)
Wire	712	227	754	691	2,027	689	(a)
Sulphate	1,495	162	542	930	363	405	(a)
Peru—							
Bars, sheets, etc. ..	(c) 88	(c) 50	(c) 162	(c) 52	93	64	(a)
Sulphate	293	651	354	340	550	866	(a)
Uruguay—							
Ingots	(a)	(a)	} 299	382	(a)	(a)	(a)
Bars and sheets	(a)	(a)		(a)	(a)	(a)	(a)
Wire	(a)	(a)		(a)	(a)	(a)	(a)
Venezuela—							
Sheets	51	7	68	(a)	(a)	(a)	(a)
Sulphate	67	29	68	(a)	(a)	(a)	(a)

(a) Information not available.

(b) Including alloys.

(c) Including brass and bronze.

IMPORTS OF COPPER, ETC. (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
China—							
Ingots and blocks ..	(a)	(a)	(a)	(a)	(a)	3,291	2,097
Bars, sheets, wire, rods and tubes	(a)	(a)	(a)	(a)	(a)	1,995	1,998
Iran (total imports) (b)—							
Ingots, bars, sheets and alloys	358	32	13	(a)	(a)	(a)	(a)
Iraq—							
Crude, sheets, pipes, etc.	42	33	72	46	(a)	(a)	(a)
Japan—							
Ore (Cu content) ..	9,224	9,060	12,537	6,498	853	(a)	(a)
Refined copper	50,346	724	443	4,020	(a)	(a)	190
Syria and Lebanon—							
Bars, sheets, tubes and wire	—	—	290	132	619	1,160	(a)
Turkey—							
Ingots, bars, sheets, wire, tubes, scrap and alloys	(a)	(a)	(a)	69	326	1,235	1,275
Sulphate	(a)	(a)	(a)	589	1,426	1,056	1,646

(a) Information not available.

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

DIAMONDS

PRODUCTION OF DIAMONDS

(Metric carats)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Gold Coast (exports)—							
Gem diamonds	328,829	377,398	382,907	343,899	264,930	253,443	262,397
Bort	528,449	450,625	411,328	416,468	275,049	241,104	202,003
Diamond sand	227,016	227,712	523,560	405,490	272,471	314,453	282,634
Sierra Leone	849,912	1,046,187	834,492	608,734	503,999	559,232	605,554
South West Africa ..	41,615	56,420	88,189	154,379	152,629	165,150	179,554
Tanganyika Territory ..	(c) 29,052	(c) 40,327	(c) 52,998	87,335	119,139	120,045	(c) 92,229
Union of South Africa ..	158,422	118,821	302,329	933,682	1,222,945	1,349,099	1,242,423
British Guiana	26,717	22,797	18,756	16,339	15,852	31,732	24,669
India	2,107	2,823	2,533	1,837	1,380	(a)	(a)
Australia	300	183	429	198	73	50	73
TOTAL	2,192,000	2,343,000	2,618,000	2,968,000	2,828,000	3,034,000	2,894,000
FOREIGN COUNTRIES							
Angola	786,979	791,853	794,990	799,120	803,887	806,962	799,210
Belgian Congo—							
Gem diamonds	677,446	615,778	332,029	388,814	458,696	367,099	540,690
Industrial do.	5,188,310	5,402,458	4,549,713	7,144,552	9,927,259	5,666,353	4,933,827
French Equatorial Africa ..	33,565	46,235	56,185	57,052	82,849	87,230	106,832
French West Africa	57,735	49,866	36,193	69,726	79,802	51,834	53,749
Brazil (b)	325,000	300,000	275,000	370,000	275,000	325,000	275,000
Venezuela	29,416	34,048	22,846	22,037	12,762	20,912	61,634
TOTAL	7,100,000	7,240,000	6,070,000	8,850,000	11,640,000	7,325,000	6,771,000
WORLD'S TOTAL	9,292,000	9,583,000	8,688,000	11,818,000	14,468,000	10,359,000	9,665,000

(a) Information not available.

(b) Estimated.

(c) Exports.

PRODUCTION OF DIAMONDS

(£ sterling)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Gold Coast (exports)—							
Gem diamonds	365,492	381,055	390,030	357,669	274,706	338,225	402,492
Bort	144,978	101,428	92,568	95,483	61,888	71,393	74,873
Diamond sand	118,562	131,022	238,896	205,876	142,812	212,907	269,197
Sierra Leone	749,463	922,754	938,803	723,176	598,750	806,412	(a)
South West Africa ..	388,128	472,128	712,555	952,883	1,277,980	1,694,500	1,920,869
Tanganyika Territory ..	(c) 70,236	(c) 84,745	(c) 155,925	(b) 296,939	(b) 657,746	(b) 986,870	(c) 629,589
Union of South Africa ..	946,095	701,964	1,812,175	5,846,179	6,425,096	9,041,762	7,167,000
British Guiana	81,822	89,341	84,242	80,929	95,276	288,718	155,659
India	13,292	20,632	22,253	16,359	13,491	(a)	(a)
Australia	254	270	720	383	134	115	215
TOTAL	2,878,000	2,906,000	4,448,000	8,576,000	9,432,000	13,040,000	11,880,000
FOREIGN COUNTRIES							
Angola (b)	1,020,000	990,000	990,000	1,000,000	1,000,000	1,400,000	1,650,000
Belgian Congo (b) ..	1,701,000	1,042,000	500,000	1,023,000	1,488,000	2,051,000	1,369,000
French Equatorial Africa ..	45,000	96,000	136,000	153,000	951,000	416,000	484,000
French West Africa ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Brazil (estimated)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Venezuela	112,594	140,423	102,888	100,546	54,993	71,648	189,836
TOTAL	4,000,000	3,400,000	2,800,000	3,400,000	4,600,000	5,100,000	4,800,000
WORLD'S TOTAL	6,878,000	6,306,000	7,248,000	11,976,000	14,032,000	18,140,000	16,680,000

(a) Information not available.

(b) Estimated on export value.

(c) Exports.

EXPORTS OF DIAMONDS
(Domestic Produce)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Gold Coast—							
Gem diamonds .. Ct.	328,829	377,398	382,907	343,899	264,930	253,443	262,397
£	365,492	381,055	390,030	357,669	274,706	338,225	402,492
Bort Ct.	528,449	450,625	411,328	416,468	275,049	241,104	202,003
£	144,978	101,428	92,568	95,483	61,888	71,393	74,873
Diamond sand .. Ct.	227,016	227,712	523,560	405,490	272,471	314,453	282,634
£	118,562	131,022	238,896	205,876	142,812	212,907	269,197
Sierra Leone .. Ct.	1,347,198	889,909	1,035,367	610,212	493,411	304,896	574,336
£	(a)	(a)	(a)	(a)	(a)	(a)	(a)
South West Africa (uncut)							
Ct.	120,442	88,878	94,256	148,499	249,474	153,399	(a)
£	698,618	647,952	721,698	918,909	1,195,773	1,362,502	(a)
Tanganyika Territory Ct.	29,052	40,327	52,998	90,067	(c) 115,620	(c) 119,446	92,229
£	70,236	84,745	155,925	306,306	(c) 638,383	(c) 981,833	629,589
Union of South Africa—							
Uncut Ct.	838,809	766,357	446,611	639,153	1,227,066	835,460	(a)
£ (S.A.)	1,467,268	1,972,316	2,509,194	3,595,762	5,950,724	6,107,776	(a)
Cut and polished Ct.	57,183	56,702	56,090	55,431	77,823	80,539	(a)
£ (S.A.)	2,233,083	2,481,188	3,395,092	3,230,423	4,789,002	5,959,192	(a)
Canada—							
Industrial diamonds and dust Ct.							
£	(a)	(a)	(a)	(a)	(a)	(a)	10,000
British Guiana (d) .. Ct.	29,989	21,223	17,180	14,262	17,683	29,360	26,553
£	91,505	82,885	76,875	67,837	106,462	265,128	167,536
Palestine—							
Polished Ct.	6,320	26,259	61,740	76,996	137,832	116,588	(a)
£ P.	207,000	947,144	2,620,624	3,235,117	5,909,297	5,502,878	(a)
Powder Ct.	(a)	(a)	(a)	(a)	(a)	1,100	(a)
£ P.	(a)	(a)	(a)	(a)	(a)	165	(a)
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Cut and polished Ct.	—	—	—	—	(a)	294,745	330,210
£	—	—	—	—	(a)	12,826,484	11,575,092
Industrial diamonds Ct.	—	—	—	—	(a)	244,817	576,302
£	—	—	—	—	(a)	553,557	988,558
Czecho-Slovakia—							
Glaziers' diamonds £	(a)	(a)	(a)	(a)	(a)	460	649
France—							
Cut and polished £	(a)	(a)	(a)	(a)	—	—	—
Netherlands—							
Unpolished £	} (a)	} (a)	} (a)	} (a)	} —	220,000	(a)
Polished £						2,300,000	(a)
Industrial diamonds £						98,000	(a)
Angola Ct.	770,868	738,689	980,527	807,923	801,714	808,442	802,099
£	1,000,000	924,000	1,227,000	1,011,000	1,002,960	1,398,300	1,615,400
Belgian Congo—							
Gem diamonds .. Ct.	(b)	345,000	220,000	220,000	227,000	1,306,516	1,150,750
£	(b)	146,000	93,484	93,734	97,875	1,422,589	1,159,269
Industrial diamonds Ct.	2,720,000	7,500,000	10,017,000	14,134,719	7,340,000	4,751,267	6,786,000
£	781,275	872,521	961,643	1,656,181	950,618	654,142	829,586
French Equatorial Africa Ct.	24,000	35,000	43,000	10,000	60,000	142,000	60,000
£	20,700	33,100	103,400	10,000	35,000	550,000	220,000

(a) Information not available.

(b) Included with "Industrial diamonds."

(c) Of these amounts Gem and Industrial diamonds were as follows:—

1945—Gem 47,802 carats valued £515,798; Industrials 67,818 carats valued £122,585.

1946—Gem 62,782 carats valued £787,621; Industrials 56,664 carats valued £194,212.

(d) Revised.

EXPORTS OF DIAMONDS (Cont.)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
French West Africa Ct.	22,000	25,000	61,000	96,000	70,000	95,000	30,000
£	(a)	(a)	4,673	(a)	60,000	167,000	25,000
Cuba—							
Cut £	—	—	238,500	1,498,000	(a)	(a)	(a)
United States—							
Industrial diamonds Ct.	(a)	37,654	59,852	74,180	(a)	(a)	92,626
£	(a)	51,000	61,000	60,000	(a)	(a)	127,115
Brazil (b)—							
Diamonds (c) .. Ct.	321,545	235,820	197,285	192,185	91,910	126,460	(a)
£	1,738,000	1,595,000	2,179,000	1,898,000	1,501,000	1,584,000	(a)
Carbons Ct.	21,545	13,615	19,495	10,795	3,910	14,070	(a)
£	51,900	55,300	76,100	44,903	15,770	57,690	(a)
Venezuela £	406	5,829	20,839	(a)	(a)	(a)	(a)
£	1,400	23,000	190,000	(a)	(a)	(a)	(a)

(a) Information not available.

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

(c) Not including low-grade diamonds and bort.

IMPORTS OF DIAMONDS

(Less Re-exports)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom (b) Ct.	(a)	10,622,590	16,145,636	17,712,586	11,231,178	3,291,690	(a)
£	(a)	6,258,742	7,810,398	8,821,843	10,892,848	10,828,505	(a)
Northern Rhodesia—							
Uncut Ct.	8,922	17,611	13,056	3,840	19,371	27,068	10,732
£	6,020	15,409	9,299	2,565	14,226	20,480	9,890
Union of South Africa—							
Rough diamonds Ct.	18,959	(c) 19,534	(c) 13,052	(d) 111,827	279,810	3,202,127	(a)
£ (S.A.)	29,740	(c) 10,894	(c) 27,439	(d) 236,789	23,384	987,383	(a)
Cut and polished Ct.	30	80	2	56	—	519	(a)
£ (S.A.)	152	3,381	40	100	—	19,985	(a)
Canada—							
Unset £	257,131	215,134	316,190	465,865	741,442	1,439,589	699,739
Dust, bort, etc. .. £	209,526	310,772	366,521	386,835	446,135	943,976	265,820
Bermuda (a)	1,987,712	8,811	2,437	2,279	2,417	—	—
British India .. £	34,683	168,962	905,761	1,341,290	1,508,648	1,691,369	(c) 2,408,401
Ceylon Ct.	175	—	—	—	—	—	—
£	3,877	—	—	—	—	—	—
Malaya (total imports) £	(a)	(a)	(a)	(a)	(a)	—	20,484
Palestine—							
Rough diamonds Ct.	(a)	176,436	481,302	416,039	625,123	499,765	(a)
£ P.	(a)	366,173	1,138,426	1,522,361	2,810,696	3,269,258	(a)
Polished do. .. Ct.	(a)	1,336	628	1,852	3,958	532	(a)
£ P.	(a)	66,754	67,007	142,923	310,670	50,130	(a)
Powder Ct.	(a)	32,700	29,800	25,000	146,204	103,276	(a)
£ P.	(a)	7,108	5,608	32,486	26,636	28,141	(a)
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Cut diamonds .. Ct.	(a)	(a)	(a)	(a)	(a)	(a)	12,614
£						(a)	463,099
Rough diamonds Ct.						2,051,738	1,579,037
£						11,474,371	7,157,717
Industrial diamonds Ct.						518,390	223,707
£						104,596	90,426
Czechoslovakia—							
Glaziers' diamonds £	(a)	(a)	(a)	(a)	(a)	89	1,485
France—							
Cut and polished £	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Netherlands—							
Unpolished .. £	(a)	—	(a)	(a)	(a)	2,000,000	(a)
Polished £	—	—	—	(a)	(a)	50,000	(a)
Industrial diamonds £	(a)	(a)	(a)	(a)	(a)	130,000	(a)
Switzerland—							
Industrial diamonds £	(a)	(a)	26,000	6,000	44,000	(a)	(a)
Egypt—							
Cut Ct.	20	—	—	—	30	74	—
£	25	—	—	—	1,338	849	—

(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 Territory, Angola and Belgian Congo to the United Kingdom as recorded by those countries, but exclude exports from Tanganyika Territory during 1942 and 1943, and from Belgian Congo in 1946 as information is not available. In addition, provisional figures of Re-exports from the Union of South Africa to the United Kingdom of 260,490 carats—£160,770 for 1944, 28,384 carats—£26,208 for 1945 and 3,064,873 carats—£497,575 for 1946, are recorded in the Trade Returns.

(c) Excess of re-exports. (d) Total imports. Re-exports amounted to 269,375 carats, valued £ S.A. 178,090.

(e) January to November only.

IMPORTS OF DIAMONDS (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Mexico—							
Uncut Ct.	1,045	14,915	130	935	4,215	22,820	} (a)
.. .. £	3,404	720	381	1,805	13,385	7,805	
Cut Ct.	615	3,650	20,530	15,580	13,830	19,830	
.. .. £	9,561	43,934	181,467	435,712	490,593	511,501	
Industrial diamonds Ct.	381,835	215,645	177,620	194,560	499,140	323,590	
.. .. £	10,521	9,995	6,264	6,626	8,369	8,144	
United States—							
Uncut Ct.	215,026	278,437	751,240	896,547	893,761	1,044,717	1,075,478
.. .. £	2,556,000	2,465,000	9,291,000	10,806,000	10,700,402	12,076,636	10,682,682
Cut and polished Ct.	229,582	126,004	193,701	169,097	377,243	604,638	347,810
.. .. £	4,552,000	3,633,000	7,806,000	7,196,907	15,926,900	29,272,508	13,268,372
Industrial diamonds Ct.	6,882,248	10,894,150	11,697,057	12,209,759	10,265,558	4,584,174	3,261,249
.. .. £	3,699,000	5,137,000	4,980,000	5,241,000	2,846,457	2,553,937	2,478,992
Dust Ct.	(a)	1,050	38,836	(b) 30,074	62,317	77,732	116,391
.. .. £	700	200	3,000	(b) 10,000	11,715	32,077	57,106
Chile—							
Industrial diamonds Ct.	—	—	—	4,726	13,595	3,100	(a)
.. .. £	—	—	—	3,876	11,901	3,833	(a)
Peru—							
Glaziers' diamonds £	130	15	44	146	61	—	(a)
Venezuela—							
Carbons £	10,900	13,800	5,400	57	(a)	(a)	(a)

(a) Information not available.

(b) Excess of re-exports.

DIATOMACEOUS EARTH

PRODUCTION OF DIATOMACEOUS EARTH

(Long tons)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Great Britain	4,000	3,000	3,000	3,000	3,000	2,000	2,328
Northern Ireland	15,341	24,572	18,774	25,408	9,958	7,049	8,638
Kenya	(a)	(a)	(a)	(a)	444	508	724
Union of South Africa ..	749	581	182	321	68	147	713
Canada (Shipments)	307	326	88	12	41	80	92
Barbados	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Australia	5,242	4,242	4,075	3,605	3,088	4,957	5,543
New Zealand	124	419	128	55	255	348	436
FOREIGN COUNTRIES							
Bulgaria	128	(a)	(a)	(a)	(a)	(a)	(a)
Denmark—							
Diatomaceous earth (f) ..	4,400	11,800	41,000	11,400	9,200	15,400	36,600
Moler (e)	60,000	40,000	50,000	40,000	(a)	40,000	60,000
France	(a)	11,141	11,280	4,343	10,381	20,122	(a)
Italy	5,224	(a)	(a)	(a)	(a)	(a)	(a)
Norway	664	(a)	(a)	(a)	(a)	(a)	(a)
Sweden	1,968	2,225	1,643	1,484	1,601	1,626	1,673
Algeria	8,800	8,400	6,100	226	4,832	5,866	6,437
Egypt	943	1,234	902	821	960	1,366	1,319
United States	(b) 107,292	(c) 156,212	(c) 156,212	(c) 156,212	(d) 190,704	(d) 190,704	(d) 190,704
Argentina	49	207	375	300	—	(a)	(a)
Chile	306	236	65	772	219	(a)	(a)
Korea	(a)	(a)	(a)	11,300	(a)	(a)	(a)

Diatomaceous earth is also produced in Finland, Germany, Hungary, Portugal, Roumania, Spain, U.S.S.R., Brazil and Japan.

(a) Information not available.

(b) Average annual production 1939-1941.

(c) Average annual production 1942-1944.

(d) Average annual production 1945-1947.

(e) Estimated.

(f) Converted from cubic metres at the rate of 1 cubic metre = 2 long tons.

EXPORTS OF DIATOMACEOUS EARTH

(Domestic Produce)

(Long tons)

Exporting Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Canada (including other natural abrasives)	6	5	9	5	11	3	53
Australia (c)	(a)	(a)	(a)	(a)	(a)	76	163
FOREIGN COUNTRIES							
Denmark—							
Moler	46,349	30,782	37,186	30,950	2,784	35,884	47,373
Moler bricks	5,943	5,235	4,954	3,408	1,130	3,496	4,388
Finland	212	142	5	—	15	88	58
France	321	993	143	28	218	1,310	1,596
Germany	3,458	3,027	2,601	(b) 1,330	(a)	(a)	(a)
Norway—							
Calcined, etc.	—	—	—	—	3	125	(a)
Portugal	(a)	940	504	5	21	1	13
Sweden	3	—	1	2	23	23	—
Algeria	4,572	6,619	416	191	2,754	5,687	3,524
Brazil	22	99	—	—	297	(a)	(a)
Chile	316	236	116	158	168	80	(a)

(a) Information not available.

(b) January to July only.

(c) Years ended June 30 of that stated.

IMPORTS OF DIATOMACEOUS EARTH

(Less Re-exports)

(Long tons)

Importing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom	6,315	4,177	5,697	8,933	5,568	32,361	49,192
Union of South Africa	262	79	55	33	146	205	(a)
Canada	6,174	3,834	5,021	10,414	11,801	15,235	13,459
FOREIGN COUNTRIES							
Denmark	82	175	128	65	—	24	(a)
Finland (total imports)	11	35	13	59	91	3	71
France	5,208	6,915	301	74	1,096	4,689	2,974
Germany	45,619	35,566	34,746	(b) 19,130	(a)	(a)	(a)
Norway	510	826	2,486	819	71	455	(a)
Portugal	269	167	38	5	21	82	119
Sweden	405	377	337	252	374	753	862
Algeria	—	8	—	—	50	30	12
Egypt	6	50	—	—	32	(c) 58	(a)
Tunis	75	72	—	1	42	139	126
Cuba (total imports)	2,044	1,880	1,960	2,124	2,910	(a)	(a)
Mexico	874	684	757	884	779	1,156	(a)
Chile	—	—	35	42	18	—	(a)
Peru	315	420	194	597	628	274	(a)

(a) Information not available.

(b) January to July only.

(c) Total imports.

FELSPAR

PRODUCTION OF FELSPAR

(Long tons)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Great Britain—							
China stone	47,118	30,897	32,980	29,262	32,125	36,495	47,709
Northern Ireland	—	10	200	169	—	—	—
Kenya	—	—	—	—	108	43	35
Union of South Africa (b)	—	—	—	658	625	1,360	1,740
Canada (sales)	23,250	19,884	21,302	20,990	27,005	31,467	32,236
India	1,237	2,067	1,319	338	335	1,283	(a)
Palestine	(a)	(a)	84	64	36	52	(a)
Australia (including china stone)	5,684	5,879	6,712	7,586	6,114	7,856	8,431
FOREIGN COUNTRIES							
Finland (exports)	1,203	2,291	1,267	2,048	229	3,293	4,361
France	(a)	14,635	19,030	9,457	16,113	27,745	(a)
Germany (Bavaria only) ..	12,768	12,137	(a)	(a)	(a)	(a)	(a)
Italy	12,557	(a)	(a)	(a)	(a)	6,145	10,624
Norway—							
Unground	6,201	4,476	4,703	7,077	3,881	2,808	(c) 15,922
Ground	1,207	1,694	919	783	296	2,440	(c) 7,220
Portugal	—	—	—	629	667	842	1,119
Spain	(a)	4,184	1,076	2,526	(a)	(a)	(a)
Sweden	21,641	18,939	25,470	15,292	14,932	24,877	37,354
Egypt	51	19	31	79	63	—	—
Madagascar	—	9	2	33	—	12	—
United States (sales) ..	338,860	316,166	308,180	327,408	373,054	508,380	459,910
Argentina	2,934	5,533	1,968	3,413	5,290	(a)	(a)
Peru	—	—	—	—	325	171	29

Felspar is also produced in Czecho-Slovakia, Roumania, U.S.S.R., China, French Indo-China, Manchuria and Brazil.

(a) Information not available.

(b) Sales and shipments.

(c) Exports.

EXPORTS OF FELSPAR
(Domestic Produce)
(Long tons)

Exporting Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom (b) ..	3,041	103	207	3	1,969	2,998	2,005
Canada	11,541	9,836	11,361	11,679	15,079	17,178	16,349
Palestine	2	3	5	6	2	3	(a)
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.	57	438	16	21	(a)	(a)	(a)
Czecho-Slovakia	(a)	(a)	(a)	(a)	(a)	130	15
Finland	1,203	2,291	1,267	2,048	229	3,293	4,361
France	(a)	(a)	361	20	49	841	3,339
Germany	13,789	15,266	12,834	(c) 7,380	(a)	(a)	(a)
Norway—							
Crude	4,215	4,758	4,305	6,481	1,312	4,947	15,922
Ground	844	1,469	479	514	242	2,257	7,220
Sweden	18,183	16,439	14,306	4,683	5,454	18,651	22,347

(a) Information not available.

(b) Including china stone up to 1945 inclusive.

(c) January to July only.

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

Importing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom (b) ..	646	567	1,214	3	3,198	10,309	9,295
Canada	671	503	470	487	737	629	287
Palestine	94	13	16	12	23	83	(a)
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.	5,290	12,577	6,679	2,355	(a)	(a)	(a)
Czecho-Slovakia	(a)	(a)	(a)	(a)	(a)	50	1,890
Denmark	1,766	1,745	1,656	2,354	1,710	1,450	2,221
Finland (total imports) ..	59	39	20	—	—	—	—
France	(a)	(a)	1,043	369	—	549	1,801
Germany	17,157	18,933	16,343	(c) 9,883	(a)	(a)	(a)
Netherlands	5,218	2,693	1,017	(a)	(a)	2,060	8,066
Sweden	53	278	—	108	—	1,891	3,555
Mexico	842	1,014	924	717	1,384	1,699	(a)
United States	11,253	9,525	10,795	11,695	14,924	16,385	16,685
Chile	—	—	1	—	1	7	(a)

(a) Information not available.

(b) Including china stone up to 1945 inclusive.

(c) January to July only.

FLUORSPAR

PRODUCTION OF FLUORSPAR

(Long tons)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom	41,566	43,226	(e) 54,236	(e) 48,154	43,582	46,454	44,305
Southern Rhodesia	—	98	293	—	—	—	152
Union of South Africa	3,894	4,119	4,572	3,426	3,599	4,745	4,739
Canada	4,941	5,535	10,009	6,182	6,580	7,180	6,416
Newfoundland	11,341	34,690	99,112	47,801	38,648	11,432	(a)
India	1,575	4,045	1,640	1,229	431	—	(a)
Australia	830	645	996	774	931	1,182	1,200
FOREIGN COUNTRIES							
France	41,239	27,014	23,780	13,190	14,305	18,931	26,774
Germany—							
Anhalt	13,145	12,273	7,524	}	(a)	(f) 2,077	(a)
Baden	26,826	31,126	36,503				(a)
Bavaria	52,404	58,698	71,619				(a)
Prussia	23,158	27,401	24,101				(a)
Saxony	10,767	11,620	16,044				(a)
Thuringia	18,205	31,780	39,605	(a)	(a)		
Italy	20,575	(d) 34,481	(a)	(a)	(a)	7,683	19,960
Norway	1,505	2,367	4,432	2,717	3,092	1,417	743
Spain	15,157	16,039	35,344	54,717	9,484	8,574	13,666
Sweden	—	461	2,074	1,807	3,394	3,662	2,736
Tunis	—	—	16	—	—	—	—
Mexico (b)	10,355	5,905	22,527	55,596	49,457	19,797	(a)
United States (c)	286,311	321,709	362,514	369,447	289,251	248,161	306,145
Argentina	1,995	2,291	1,686	2,632	2,964	(a)	(a)
Bolivia (b)	—	—	—	—	18	—	27
China (Occupied) (h)	9,574	55,501	71,742	86,603	3,907	(a)	(a)
Japan	2,630	2,795	2,946	5,040	3,156	283	60
Korea (g)	26,112	31,900	38,964	52,292	15,844	(a)	(a)
Manchuria (i)	4,795	17,825	14,648	25,149	14,858	(a)	(a)
Turkey	—	—	—	—	—	113	—

Fluorspar is also produced in the U.S.S.R.

(a) Information not available.

(b) Exports.

(c) Shipments.

(d) U.S. Bureau of Mines.

(e) In addition the amounts obtained from old lead-zinc mine dumps were 40,780 and 30,429 long tons in 1943 and 1944 respectively.

(f) August to December only.

(g) Exports to Japan. Production in 1944 was stated to be 128,462 long tons.

(h) Exports to Japan from North and Central China.

(i) Exports to Japan from Manchuria.

EXPORTS OF FLUORSPAR

(Domestic Produce)

(Long tons)

Exporting Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom	308	50	—	5	21	1,777	1,697
Union of South Africa ..	1,864	1,591	2,489	2,712	1,380	193	52
Newfoundland (b)	16,390	(c) 22,585	66,615	42,870	21,750	27,932	34,050
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.	—	—	51	—	(a)	(a)	(a)
France	(a)	(a)	179	399	—	575	995
Germany	6,709	10,607	13,417	(d) 5,959	(a)	(a)	(a)
Norway	352	81	39	35	112	426	(a)
Sweden	—	39	—	—	137	1,616	833
Mexico	10,355	5,905	22,527	55,596	49,457	19,797	(a)
United States	(a)	8,244	8,361	1,842	1,080	1,656	1,186
Bolivia	—	—	—	—	18	—	27
China (Occupied) (e) ..	9,574	55,501	71,742	86,603	3,907	(a)	(a)
Korea (e)	26,112	31,900	38,964	52,292	15,844	(a)	(a)
Manchuria (e)	4,795	17,825	14,648	25,149	14,858	(a)	(a)

(a) Information not available.

(b) Years ended June 30 of year following for 1941 and ended March 31 subsequently.

(c) Nine months ended March 31, 1943.

(d) January to July only.

(e) Exports to Japan.

IMPORTS OF FLUORSPAR

(Less Re-exports)

(Long tons)

Importing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Canada	23,695	42,664	69,140	33,125	18,314	28,405	21,456
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.	1,509	2,690	2,228	202	(a)	(a)	(a)
Denmark	252	6	626	654	167	703	620
France	(a)	(a)	229	146	4,570	8,687	10,579
Germany	59	15,845	19,876	(b) 19,476	(a)	(a)	(a)
Norway	295	204	16	298	—	212	(a)
Portugal	—	—	70	29	20	17	21
Sweden	1,579	6,238	1,381	113	15	2,703	2,743
United States	6,718	1,920	39,079	77,723	92,083	24,254	70,290
Peru	154	163	313	507	405	255	(a)
Japan	47,828	105,215	125,354	164,044	34,609	(a)	(a)

(a) Information not available.

(b) January to July only.

FULLER'S EARTH

PRODUCTION OF FULLER'S EARTH
(Long tons)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
India	9,165	8,940	10,542	11,075	13,232	5,086	(a)
Australia	446	353	269	257	276	609	266
New Zealand	109	138	124	106	76	75	31
FOREIGN COUNTRIES							
United States (sales) ..	185,220	182,361	220,766	263,158	264,614	266,743	293,811
Japan	(a)	(a)	(a)	73,000	(a)	(a)	(a)

Fuller's earth is also produced in the United Kingdom and Turkey (8,428 tons in 1937).

(a) Information not available.

EXPORTS OF FULLER'S EARTH*

(Long tons)

Exporting Country	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES							
United States (b)	9,573	5,404	6,109	6,660	6,029	15,846	(a)

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

(b) As recorded by producers.

IMPORTS OF FULLER'S EARTH

(Less Re-exports)

(Long tons)

Importing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Union of South Africa ..	574	360	103	49	316	718	(a)
Canada	(£13,527)	(£14,598)	(£16,980)	(£16,754)	(£16,740)	(£17,629)	(£21,456)
Ceylon	46	88	76	6	22	76	41
Australia	999	819	154	545	581	657	519
FOREIGN COUNTRIES							
Mexico	697	180	221	253	500	820	(a)
United States—							
Crude	40	41	35	—	—	173	41
Prepared	265	215	140	275	300		
Chile	1	92	—	1	53	—	(a)
Peru	891	414	36	63	264	265	(a)

(a) Information not available.

GOLD

PRODUCTION OF GOLD ORE

(In terms of metal)

(Fine troy ounces)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Anglo-Egyptian Sudan ..	5,323	5,196	2,127	1,820	1,623	3,670	3,725
Bechuanaland Protectorate	14,509	15,441	12,965	11,572	11,297	9,738	7,382
Gold Coast	888,887	778,925	567,282	523,225	539,252	585,910	558,011
Kenya	72,147	56,771	45,117	42,259	38,517	29,892	21,959
Nigeria	19,281	38,497	15,323	7,916	8,108	4,881	2,203
Northern Rhodesia ..	3,401	1,134	703	307	265	6,838	779
Southern Rhodesia ..	790,442	760,030	656,684	592,729	568,242	544,596	522,735
Sierra Leone	25,613	12,449	3,072	1,014	274	183	2,400
South West Africa ..	210	214	175	98	84	(a)	(a)
Swaziland	537	1,061	2,604	2,189	3,583	4,914	5,637
Tanganyika Territory	(e) 142,685	(e) 106,835	(e) 72,723	57,103	51,302	49,952	(e) 47,356
Uganda (exports) ..	9,505	9,468	3,820	2,593	2,293	2,176	1,366
Union of South Africa	14,407,649	14,126,852	12,804,379	12,279,629	12,224,629	11,927,165	11,200,281
Canada	5,345,179	4,841,306	3,651,301	2,922,911	2,696,727	2,832,554	3,035,161
Newfoundland	21,158	15,726	18,735	18,329	15,354	15,751	13,583
British Guiana	33,089	26,867	17,873	17,429	20,685	22,712	24,225
Burma	(a)	(d) 30	(d) 30	(d) 30	(d) 30	(a)	(a)
Cyprus	21,401	10,002	5,480	958	—	—	—
India	285,930	260,302	255,228	188,206	168,366	131,775	171,782
Malaya	(b) 24,804	1,024	2,213	1,212	287	445	5,312
Sarawak	6,832	1,931	783	—	—	17	429
Australia	1,496,698	1,153,787	751,258	656,867	657,213	824,480	937,654
Fiji	118,681	99,973	61,505	40,407	94,964	82,401	94,353
New Guinea	212,214	—	—	—	—	661	59,202
New Zealand	174,656	165,986	149,150	142,287	128,364	119,271	112,260
Papua	13,049	(a)	(a)	(a)	(a)	(a)	(a)
TOTAL	24,130,000	22,500,000	19,100,000	17,500,000	17,231,000	17,199,000	16,828,000
FOREIGN COUNTRIES							
Bulgaria (estimated) ..	2,500	2,500	(a)	(a)	(a)	(a)	(a)
Finland	—	2,218	7,137	5,048	3,022	7,330	10,642
France	59,961	44,336	34,112	21,959	39,738	48,355	44,690
Hungary	61,350	61,350	61,350	28,215	(a)	(a)	(a)
Italy	13,503	14,757	12,892	6,848	1,865	9,259	12,716
Portugal	(a)	(a)	(a)	(a)	(a)	6,687	15,754
Roumania	103,000	84,000	83,000	71,000	(a)	(a)	(a)
Sweden	152,266	175,029	156,606	112,560	85,585	91,372	75,586
U.S.S.R. (c)	3,000,000	3,000,000	3,000,000	3,000,000	5,000,000	5,500,000	6,000,000
Yugoslavia	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Angola	3,970	6,112	1,953	1,198	819	547	354
Belgian Congo	566,880	516,846	498,304	399,730	346,971	331,313	301,445
Cameroon (French) ..	22,859	23,084	21,798	20,416	16,300	11,928	11,501
Egypt	2,868	1,768	890	1,036	3,014	2,793	2,090
Eritrea	700	5	80	170	2,119	3,411	3,540

(a) Information not available.

(b) January to September only.

(c) Estimated.

(d) Average annual production during the Japanese occupation (1942 to 1945).

(e) Exports.

PRODUCTION OF GOLD ORE (Cont.)

Producing Country	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Ethiopia (f)	—	—	—	63,720	50,000	46,000	(a)
French Equatorial Africa ..	96,066	94,234	93,462	84,106	76,069	71,568	70,169
French West Africa	3,955	7,207	7,973	8,777	6,945	7,009	5,562
Liberia (c)	20,370	22,469	30,823	34,720	9,016	16,506	16,998
Madagascar	10,996	8,874	9,182	9,388	6,430	3,890	1,511
Morocco (French)	771	27,000	2,475	2,570	160	—	—
Mozambique	8,391	6,527	6,462	7,556	7,909	5,765	5,401
Costa Rica (f)	30,607	29,803	16,332	6,977	4,456	1,739	(a)
Cuba	2,856	—	—	—	—	—	—
Dominican Republic	15,614	6,709	816	683	(a)	(a)	(a)
Guatemala	2,560	729	409	129	60	32	(a)
Haiti	(a)	432	310	161	(a)	(a)	(a)
Honduras (f)	33,092	25,779	22,844	23,026	19,158	13,925	(a)
Mexico	799,975	801,357	631,537	508,882	499,301	420,500	464,739
Nicaragua	(c) 217,771	(c) 248,176	(c) 233,641	(c) 223,910	206,360	210,026	(a)
Panama	2,105	98	—	—	—	—	—
Salvador	8,282	30,374	29,007	21,945	11,397	21,809	(a)
United States	4,750,865	3,457,110	1,363,815	998,394	954,572	1,574,505	2,109,185
Argentina	17,618	20,994	16,315	(a)	(a)	(a)	(a)
Bolivia (b)	15,842	20,194	8,374	6,265	5,857	16,701	20,108
Brazil	147,308	157,078	160,320	166,378	163,107	140,482	135,284
Chile	263,833	187,001	173,751	203,749	180,352	230,523	168,855
Colombia	656,019	596,618	565,501	553,530	506,695	437,176	383,000
Dutch Guiana	12,563	7,877	5,897	5,691	5,884	4,630	4,125
Ecuador	83,375	88,871	90,871	84,234	66,975	73,512	(a)
French Guiana	36,009	27,200	20,608	18,583	20,541	19,741	14,930
Peru	285,191	257,612	199,637	175,180	172,663	158,379	116,017
Uruguay	1,364	(f) 1,022	(f) 1,000	(f) 1,000	(f) 1,000	(a)	(a)
Venezuela	130,441	115,987	82,634	77,716	83,269	48,558	21,830
Formosa	28,839	23,792	51,827	23,084	(a)	(a)	(a)
French Indo-China	2,315	354	100	13	—	—	—
Japan	708,024	661,855	230,071	168,438	26,749	37,423	59,800
Korea	822,545	763,741	535,053	656,678	(a)	(a)	(a)
Netherlands East Indies ..	91,372	—	—	—	—	—	—
Philippine Islands	1,144,000	(a)	(a)	(a)	(a)	(a)	64,441
Saudi Arabia	36,521	32,489	44,330	4,569	36,215	49,773	54,046
TOTAL	16,000,000	13,000,000	10,000,000	9,000,000	8,600,000	9,600,000	10,900,000
* WORLD'S TOTAL	40,000,000	35,500,000	29,100,000	26,500,000	25,800,000	26,800,000	27,700,000

* Gold is also produced in Czecho-Slovakia, Germany and Manchuria—an allowance for this production is made in the total.

(a) Information not available.

(b) Estimated.

(c) Exports.

(d) Imports into the United States.

(e) U.S. Bureau of Mines.

(f) Annual Report of the U.S. Mint.

EXPORTS OF GOLD

(In terms of metal)

(Fine troy ounces)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Bullion—							
Unrefined	—	—	—	—	—	—	(a)
Refined	944,000	50,000	2,333,000	6,225,000	566,000	1,164,000	(a)
Coin	202,000	73,000	3,000	106,000	2,000	94,000	(a)
Eire—							
Bullion	1,500	1,250	1,500	140	4	134	208
Anglo-Egyptian Sudan—							
Bullion	10,700	7,900	2,800	1,800	1,600	3,500	1,200
Gold Coast—							
Bullion	815,300	786,100	630,400	533,900	475,000	646,600	569,000
Kenya and Uganda—							
Bullion	108,000	94,100	61,000	56,000	41,300	34,700	31,700
Nigeria—							
Bullion	24,000	42,000	19,800	10,700	8,000	2,000	700
Northern Rhodesia—							
Bullion	(a)	(a)	980	420	250	200	250
Sierra Leone—							
Bullion	20,200	10,400	2,800	1,200	300	200	690
Southern Rhodesia—							
Concentrates, etc. ..	7,700	2,800	2,200	2,400	2,700	4,600	5,100
Bullion	761,000	772,000	655,000	590,000	566,000	553,000	527,000
Coin	8,200	3,700	9	8	1	—	—
South West Africa—							
Bullion	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Tanganyika Territory—							
Concentrates	800	(a)	(a)	130	—	60	40
Bullion	143,000	107,000	73,000	55,000	51,000	48,000	47,000
Union of South Africa—							
Ore and concentrates ..	30,500	21,200	6,800	6,300	4,700	3,600	(a)
Bullion	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Coin	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Zanzibar—							
Bullion	—	—	—	—	—	—	1,000
Canada—							
Ore, etc.	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Bullion	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Coin	(a)	(a)	(a)	(a)	(a)	(a)	(a)
British West Indies—							
St. Lucia—							
Bullion	18	(a)	(a)	(a)	(a)	(a)	(a)
Trinidad and Tobago—							
Bullion	20	—	—	—	20	—	(a)
Coin	20	—	—	—	—	—	(a)
Jamaica—							
Bullion	160	—	—	—	—	—	—
Coin	100	—	—	—	—	—	—
British Guiana—							
Bullion	22,800	14,800	9,200	6,000	7,800	8,500	13,400
Aden—							
Bullion and coin ..	10	—	300	100	—	(a)	(a)
British India (b)—							
Bullion	195,000	1,000	17,000	33,000	(c) 2,400	(c) 300	(a)
Coin	35,000	36,000	8,000	1,200	(c) 5,200	(c) 63,900	(a)
Malaya—							
Bullion	(a)	(a)	(a)	(a)	(a)	1,400	—
Coin	(a)	(a)	(a)	(a)	(a)	—	—

(a) Information not available.

(b) Includes trade by land as recorded.

(c) Sea-borne trade only.

EXPORTS OF GOLD (Cont.)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES (Cont.)							
Ceylon—							
Bullion	—	—	—	—	—	—	—
Cyprus							
Ore and concentrates ..	21,700	7,600	4,200	1,300	—	—	—
Bullion	30	—	—	—	—	—	—
Hong Kong—							
Bullion	(a)	(a)	(a)	(a)	(a)	171,000	292,000
Coin	(a)	(a)	(a)	(a)	(a)	—	108,000
Palestine—							
Bullion and coin ..	(a)	3,300	160	300	—	—	(a)
Australia—							
Ores, etc.	10,900	82,300	3,100	3,500	6,700	4,000	7,800
Bullion	2,062,000	3,500	—	—	317,000	2,198,000	356,000
Coin	10,000	—	—	—	—	—	3
Fiji—							
Bullion	117,900	87,200	57,500	44,700	72,700	68,900	134,900
New Zealand—							
Concentrates, sweepings, etc.	1,000	2,700	300	500	600	800	1,000
Bullion	173,000	162,000	147,000	135,000	118,000	110,000	96,000
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Bullion	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Denmark—							
Beaten, rolled or drawn ..	30	130	220	100	—	600	(a)
France—							
Bullion and scrap ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Coin	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Beaten, rolled or drawn	500	150	1,500	—	600	1,400	14,500
Italy—							
Bullion and scrap ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Beaten, rolled or drawn	7,202	6,366	1,575	—	—	11,156	12,217
Netherlands—							
Bullion	} (a)	(a)	(a)	(a)	(a)	(a)	(a)
Coin							
Norway—							
Coin	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Sweden—							
Bullion	640,000	33,000	10,000	8,500	19,000	390,000	806,000
Coin	26,000	200	—	—	—	—	(a)
Switzerland—							
Bullion	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Belgian Congo—							
Bullion	530,000	480,000	420,000	320,000	300,000	330,000	330,000
Cameroon (French)—							
Bullion	23,000	33,000	20,000	19,000	(a)	(a)	(a)
Egypt—							
Bullion	600	—	—	—	—	—	(a)
Coin	100	—	—	1,000	(a)	(a)	(a)
French Equatorial Africa—							
Bullion	70,300	125,900	89,500	124,100	(a)	(a)	48,000
French West Africa—							
Bullion	600	32,000	21,000	20,000	(a)	(a)	(a)
Liberia—							
Bullion	20,370	22,469	30,823	34,720	9,016	16,506	16,998
Madagascar—							
Bullion	130	—	—	—	(a)	(a)	(a)

(a) Information not available.

EXPORTS OF GOLD (Cont.)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Mozambique—							
Bullion	900	300	200	30	30	(a)	(a)
Coin	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Costa Rica—							
Bullion	14,000	12,000	6,000	3,000	3,000	1,000	2,000
Cuba—							
Ore, bullion and scrap ..	2,800	200	—	9,000	15,000	(a)	(a)
Dominican Republic—							
Bullion and scrap ..	16,000	7,000	800	700	500	700	(a)
Guatemala—							
Bullion, etc.	2,500	700	400	100	(a)	(a)	(a)
Honduras (years ended June 30)—							
Bullion, etc.	35,600	27,300	20,200	23,000	(a)	(a)	(a)
Mexico—							
Bullion	414,000	908,000	176,000	117,000	116,000	66,000	(a)
Nicaragua—							
Concentrates	209,000	241,000	221,000	218,000	203,000	204,000	220,000
Precipitates	8,000	7,000	2,000	6,000	(a)	(a)	(a)
Salvador—							
Bullion, etc.	33,000	31,000	28,000	23,000	(a)	(a)	(a)
United States—							
Ore and base bullion ..	1,000	600	60	—	—	200	} 6,000,000
Refined bullion	500	2,000	689,000	27,400,000	5,600,000	6,000,000	
Coin	200	—	250,000	5,000	50,000	4,000	
Argentina—							
Bullion and coin ..	8,000	—	1,300	550	(a)	(a)	(a)
Bolivia—							
Ore	8,158	5,905	4,304	4,561	3,180	2,918	7,955
Chile—							
Ore	74,000	7,000	9,000	(a)	(a)	(a)	(a)
Bullion	80,000	40,000	57,000	5,000	—	157,000	(a)
Coin	—	—	—	85,000	155,000	211,000	(a)
Colombia—							
Bullion	695,000	342,000	3,000	3,000	—	9,143	(a)
Dutch Guiana—							
Bullion	12,600	7,900	5,800	5,700	(a)	(a)	(a)
French Guiana—							
Bullion	34,000	25,000	13,000	19,000	(a)	(a)	(a)
Peru—							
Ores, concentrates, etc. . .	36,000	11,000	10,000	15,000	(a)	(a)	(a)
Bullion, etc.	180,000	251,000	162,000	110,000	(a)	(a)	(a)
Venezuela—							
Bullion	125,000	120,000	73,000	(a)	(a)	(a)	(a)
Iraq—							
Bullion, etc.	} (a)	(a)	(a)	(a)	(a)	(a)	(a)
Coin							
Turkey—							
Bullion and scrap ..	(a)	(a)	(a)	(a)	—	—	—

(a) Information not available.

IMPORTS OF GOLD

(In terms of metal)

(Fine troy ounces)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Ore, etc.	8,000	4,000	1,000	1,000	9,700	20,100	25,200
Bullion—							
Unrefined	44,000	849,000	607,000	584,000	483,000	655,000	(a)
Refined	683,000	5,852,000	4,522,000	20,884,000	2,327,000	13,453,000	(a)
Coin	—	183,000	—	603,800	350	157,000	(a)
Eire—							
Bullion	50	—	—	20	—	—	—
Malta—							
Bullion	} (a)	(a)	(a)	(a)	670	3,900	(a)
Coin							
Anglo-Egyptian Sudan—							
Bullion	—	—	—	2	250	—	3,175
Coin	40	—	—	5,500	—	—	(a)
Kenya and Uganda—							
Bullion	22,600	14,300	8,000	5,400	4,600	2,200	21,800
Southern Rhodesia—							
Concentrates	—	—	—	100	3,100	9,400	9,600
Bullion	—	—	—	—	—	—	—
Coin	—	250	—	—	—	—	50
Tanganyika Territory—							
Bullion	400	70	—	50	190	—	—
Zanzibar—							
Bullion	—	—	—	—	—	—	2,700
Canada—							
Bullion, etc.	(a)	(a)	(a)	(a)	(c) 170	(c) 5,900	(c) 670
British West Indies—							
Jamaica—							
Bullion	—	10	50	200	130	130	20
Coin	—	20	—	—	—	—	—
British Guiana—							
Bullion	30	50	30	40	70	30	70
Aden—							
Coin	100	—	400	130	120	20	—
British India (b)—							
Bullion	3,400	1,200	200	111,500	(d) 10,210	(d) 65,942	(a)
Coin	47,000	41,000	—	—	—	(d) 669	(a)
Ceylon—							
Bullion	—	—	—	—	—	—	38,100
Coin	—	—	—	—	—	—	—
Cyprus—							
Bullion	1	—	—	3	100	640	2,300
Hong Kong—							
Bullion	(a)	(a)	(a)	(a)	(a)	42,000	209,000
Coin	(a)	(a)	(a)	(a)	(a)	105,000	146,000
Palestine—							
Bullion and coin	(a)	130	10	3,400	21,400	87,300	(a)
Australia—							
Bullion, etc.	382,000	222,500	145,600	130,100	115,000	80,000	136,000
Coin	—	—	—	—	—	25	—
New Zealand—							
Bullion, etc.	(a)	300	200	500	600	600	500

(a) Information not available.

(b) Includes trade by land as recorded.

(c) Gold for commercial purposes only.

(d) Sea-borne trade only.

IMPORTS OF GOLD (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Bullion	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Bulgaria—							
Bullion, etc.	96,000	62,000	2,200	2,300	(a)	(a)	(a)
Denmark—							
Beaten, rolled or drawn	5,500	6,400	5,400	4,000	2,200	32,000	14,000
Finland—							
Bullion	300	—	900	1,100	4,000	300	—
Sheet and wire	100	—	22	10	—	200	350
France—							
Bullion and scrap	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Coin	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Beaten, rolled or drawn	1,300	600	350	100	250	800	7,500
Italy—							
Bullion and scrap	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Beaten, rolled or drawn	257	26,800	4,950	—	—	8,166	6,430
Netherlands—							
Bullion	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Coin	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Norway—							
Bullion	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Sheets and rolled	70	20	100	140	500	550	(a)
Sweden—							
Bullion	1,700	800	35,000	4,000	2,000	10,000	(a)
Coin	24	—	—	52,000	70	700	(a)
Switzerland—							
Bullion	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Algeria—							
Bullion and coin	—	—	—	—	30	—	2,600
Egypt—							
Bullion	7,400	5,200	1,200	1,400	(a)	(a)	(a)
Coin	2,000	12,000	5,000	18,000	(a)	(a)	(a)
Mexico—							
Bullion and coin	(a)	(a)	(a)	(a)	(a)	(a)	(a)
United States—							
Ore and base bullion	3,000,000	1,400,000	1,200,000	1,100,000	970,000	1,100,000	} 61,000,000
Refined bullion	25,100,000	7,700,000	1,700,000	1,800,000	1,700,000	10,000,000	
Coin	48,000	10,000	1,700	390,000	1,200	4,400,000	
Argentina—							
Bullion and coin	87,000	70,000	220,000	1,700,000	(a)	(a)	(a)
Brazil—							
Bullion	33,000	23,000	13,000	13,000	6,300	600	(a)
Venezuela—							
Bullion	—	—	550	(a)	(a)	(a)	(a)
Iran (b)—							
Bullion	—	—	240,000	(a)	(a)	(a)	(a)
Coin	—	300	2,000	(a)	(a)	(a)	(a)
Iraq—							
Bullion and coin	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Syria and Lebanon—							
Coin	70	90	—	1,000	2,000	500,000	(a)
Turkey—							
Bullion and scrap	(a)	(a)	(a)	—	—	1,700	500

(a) Information not available.

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

GRAPHITE

PRODUCTION OF GRAPHITE

(Long tons)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Kenya	—	—	—	10	3	—	—
Southern Rhodesia	—	—	—	5	6	—	—
South West Africa	(a)	(a)	1,136	1,607	1,297	1,174	1,613
Union of South Africa	73	(c) 1,044	(c) 633	(c) 502	192	273	218
Canada (sales) (d)	(£29,871)	1,064	1,699	1,413	1,705	1,763	2,141
Ceylon (exports)	26,747	27,432	20,051	12,264	7,820	8,082	9,005
India	814	1,055	1,169	927	1,295	1,627	(a)
Malaya	(a)	(e) 160	(e) 160	(e) 160	(e) 160	—	—
Australia	432	367	571	440	112	347	303
FOREIGN COUNTRIES							
Austria (crude)	(b)	(b)	(a)	22,132	(a)	248	4,370
Czechoslovakia	(b)	(b)	(a)	(a)	(a)	(a)	(a)
Germany (crude)	60,193	69,331	(a)	(a)	(a)	(a)	(a)
Italy	4,070	3,570	6,209	(a)	(a)	2,552	4,085
Norway	3,576	2,884	3,128	3,724	1,097	651	2,442
Spain	—	300	100	1,100	2,360	500	(a)
Sweden	68	60	63	—	213	—	—
Egypt	—	—	—	256	150	—	—
Madagascar—							
Flake	9,359	7,622	9,665	11,030	7,481	4,356	3,853
Powder	3,454	1,788	3,080	3,219	1,558	1,858	1,235
Morocco (French)	560	1,050	260	210	258	630	433
Morocco (Spanish)	23	247	78	41	(a)	(a)	(a)
Mozambique	—	162	420	—	—	197	124
Mexico	16,661	20,482	20,350	12,772	23,261	21,782	27,542
United States	2,453	6,357	8,874	4,829	4,364	4,978	3,917
Argentina	133	240	233	448	328	(a)	(a)
Brazil (f)	59	71	19	196	129	91	(a)
Uruguay (ore)	—	—	—	—	—	—	49
French Indo-China	2	14	25	30	—	—	—
Japan (g)	(a)	1,843	3,798	4,782	2,567	8,083	10,025
Korea—							
Flake	} (a)	(a)	(a)	{ 27,300	(a)	(a)	(h) 2,276
Other					(a)	(a)	(h) 7,170

Graphite is also produced in the U.S.S.R. and Albania.

(a) Information not available.

(b) Included with Germany.

(c) Including the following amounts of graphite shale :—

Year	Long tons
1942	393
1943	198
1944	183

(d) Quantities not recorded prior to 1942.

(e) Average annual production during the Japanese occupation (1942 to 1945).

(f) Exports.

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

(h) Imports into Japan from Korea.

EXPORTS OF GRAPHITE

(Domestic Produce)

(Long tons)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Crucibles	3,064	2,632	1,734	1,969	1,872	3,229	2,795
South West Africa	(b) 72	(b) 137	378	657	1,146	873	1,362
Canada	891	456	219	246	1,020	1,329	1,620
Ceylon	26,747	27,432	20,051	12,264	7,820	8,082	9,005
Hong Kong (including re-exports)	(a)	(a)	(a)	(a)	(a)	10	92
Australia	182	64	56	124	33	94	37
FOREIGN COUNTRIES							
Austria	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Belgium-Luxemburg E.U.—							
Crude and ground	10	38	13	20	(a)	(a)	(a)
Crucibles	72	107	87	23	(a)	(a)	(a)
Czechoslovakia	(a)	(a)	(a)	(a)	(a)	874	1,647
Denmark (d)	145	94	—	1	—	2	(a)
France	54	24	—	1	141	1,032	495
Germany	8,805	10,446	9,743	(c) 4,122	(a)	(a)	(a)
Italy	169	349	(a)	(a)	(a)	(a)	(a)
Norway	3,604	3,069	2,870	2,985	1,264	1,441	2,049
Sweden	1	7	30	—	28	305	16
Madagascar	11,796	6,567	11,195	13,936	6,394	8,735	8,579
Morocco (French)	477	617	215	136	301	560	380
Mozambique	(a)	(a)	(a)	96	168	189	(a)
Mexico	16,661	20,486	20,350	12,776	23,261	21,603	31,988
United States	1,539	3,656	2,687	1,991	1,168	1,266	1,360
Brazil	59	71	19	196	129	91	(a)
Japan	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Korea—							
Flake	} (a)	(a)	(a)	(a)	(a)	(a)	{ (e) 2,276
Other .. .. .								{ (e) 7,170

(a) Information not available.

(b) October to December only.

(c) January to July only.

(d) Including artificial graphite.

(e) Imports in Japan from Korea.

IMPORTS OF GRAPHITE

(Less Re-exports)

(Long tons)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Natural (b)	13,277	12,118	29,423	20,113	6,874	2,807	7,461
Crucibles.. .. .	—	—	—	—	—	1	3
Eire	50	54	76	79	38	45	33
Mauritius—							
Crucibles.. .. .	(£235)	(£925)	(£628)	(£426)	(£905)	(£726)	(£471)
Southern Rhodesia	16	50	15	39	1	33	34
Union of South Africa ..	721	251	287	526	818	312	(a)
Canada—							
Unground	(£9,942)	(£8,845)	(£5,342)	(£10,808)	(£15,027)	(£23,313)	(£17,208)
Ground, including manu- factures	(£47,946)	(£61,416)	(£64,401)	(£58,698)	(£62,302)	(£85,089)	(£95,746)
Crucibles.. .. .	(£47,098)	(£76,576)	(£42,988)	(£28,930)	(£25,900)	(£33,503)	(£33,721)
Newfoundland (c)	(£25)	(d) (£80)	1	2	3	1	—
British India—							
Graphite	361	183	743	96	519	482	(g) 845
Crucibles.. .. .	341	221	229	441	333	223	(g) 333
Hong Kong (total imports)	(a)	(a)	(a)	(a)	(a)	301	283
Palestine—							
Crucibles	—	22	16	13	24	35	(a)
Australia	856	754	1,310	447	969	794	767
New Zealand (£ N.Z.)	(£2,551)	(£2,901)	(£4,373)	(£4,160)	(£3,275)	(£2,861)	(£2,813)
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Crude and ground ..	1,020	888	655	184	(a)	(a)	(a)
Crucibles.. .. .	167	98	81	24	(a)	(a)	(a)
Bulgaria	95	240	164	68	(a)	(a)	(a)
Czechoslovakia—							
Graphite	(a)	(a)	(a)	(a)	(a)	35	260
Crucibles, etc.	(a)	(a)	(a)	(a)	(a)	18	55
Denmark—							
Graphite (b)	666	445	517	374	167	645	(a)
Crucibles.. .. .	48	51	56	67	27	136	(a)
Finland (total imports) ..	188	231	227	225	75	248	296
France	1,597	1,445	596	204	1,974	524	4,536
Germany	2,993	2,661	2,880	(e) 1,707	(a)	(a)	(a)
Italy.. .. .	2,589	3,022	(a)	(a)	(a)	(a)	(a)
Norway—							
Graphite	89	130	72	103	18	29	(a)
Crucibles, etc.	37	31	19	35	6	69	(a)
Portugal	13	30	85	37	14	56	69
Sweden	617	728	672	684	640	558	505
Algeria	45	40	119	12	65	48	48
Egypt	49	19	13	8	197	(f) 61	(a)
Tunis—							
Graphite	1	—	—	8	15	1	5
Crucibles.. .. .	14	23	—	15	31	13	12
Mexico	53	55	73	78	72	109	(a)

(a) Information not available.

(b) Including artificial graphite.

(c) Years ended June 30 of year following that stated for 1941, and March 31 subsequently

(d) Nine months ended March 31, 1943.

(e) January to July only.

(f) Total imports.

(g) January to November only.

IMPORTS OF GRAPHITE (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
United States (b)	36,749	39,069	25,589	23,262	32,400	29,589	38,867
Argentina	152	229	156	276	337	239	(a)
Brazil—							
Graphite	79	42	35	116	51	41	(a)
Crucibles	119	132	105	158	367	182	(a)
Chile	111	214	210	262	100	89	(a)
Colombia	17	—	17	(a)	(a)	13	(a)
Peru	17	24	17	30	19	18	(a)
Japan (total imports) ..	(a)	(a)	(a)	(a)	(a)	5,340	13,740
Turkey—							
Graphite	(a)	(a)	(a)	16	75	257	33
Crucibles, etc.	(a)	(a)	(a)	37	227	251	29

(a) Information not available.

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

Year	Long tons
1941	34
1942	150
1943	183
1944	117
1945	137
1946	4
1947	25

GYPSUM

PRODUCTION OF GYPSUM

(Long tons)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Great Britain (h)	1,102,607	1,212,158	1,367,958	1,323,247	1,326,596	1,687,968	1,745,714
Eire	(a)	(a)	21,114	21,056	23,030	37,295	35,840
Northern Ireland	—	—	547	—	70	—	—
Anglo-Egyptian Sudan ..	737	1,533	3,583	—	2,073	3,015	—
Kenya	—	—	—	250	215	500	589
Union of South Africa (f)	47,563	50,021	46,856	56,519	65,042	65,182	78,900
Canada (h)	1,393,250	711,720	384,663	478,889	741,717	1,809,862	(e)2,229,450
Ceylon	12	44	17	—	58	32	68
Cyprus (c)	200	300	150	3,400	2,600	15,000	8,000
Palestine	4,765	7,990	5,895	7,311	7,423	14,283	(a)
India	53,058	63,369	82,267	83,706	90,772	76,417	(a)
Australia	161,861	87,355	85,206	78,946	107,173	165,482	214,204
FOREIGN COUNTRIES							
Austria	(a)	(a)	(a)	(a)	(a)	26,420	13,928
Belgium	(a)	(a)	(a)	(a)	(a)	36,113	(a)
Bulgaria (c)	5,000	5,000	5,000	5,000	5,000	5,000	5,000
France	(a)	826,760	710,800	690,600	712,565	1,718,794	(a)
Italy (including alabaster)	323,698	(a)	(a)	10,088	12,618	15,228	17,650
Poland	(a)	(a)	(a)	(a)	(a)	9,632	14,681
Portugal	15,065	17,677	27,261	28,674	11,502	27,243	33,333
Roumania	68,491	33,119	43,348	(a)	(a)	(a)	(a)
Spain (g)	395,429	431,370	444,911	483,307	561,300	641,400	(a)
Sweden	—	748	728	170	284	—	(a)
Algeria	23,006	23,346	17,637	(a)	21,900	28,148	28,247
Angola (d)	394	360	7	7	(a)	(a)	(a)
Egypt	63,400	57,602	44,501	51,484	46,770	77,079	71,194
Morocco (French)	(a)	(a)	(a)	(a)	8,600	14,896	(a)
Morocco (Spanish)	(a)	(a)	3,250	—	(a)	(a)	(a)
Tunis	6,269	6,200	3,080	7,360	7,510	9,270	10,894
Cuba	11,810	4,235	2,875	8,866	(a)	(a)	(a)
Dominican Republic (ex-ports)	2,992	(a)	902	2,112	3,206	11,404	(a)
United States	4,275,477	4,194,257	3,462,090	3,358,245	3,403,324	5,026,248	5,543,050
Argentina	88,685	87,287	86,080	104,600	90,100	(a)	(a)
Brazil (c)	48,000	(a)	(a)	(a)	(a)	(a)	(a)
Chile	27,776	25,594	32,374	31,716	43,222	75,467	82,604
Peru	22,117	19,206	20,005	43,004	37,398	42,706	40,677
Venezuela (b)	3,000	4,000	4,700	(a)	(a)	(a)	(a)
French Indo-China	—	3,000	710	—	—	—	—
Japan	204,862	183,637	154,098	121,877	82,104	47,738	64,840
New Caledonia	10,108	13,853	16,532	16,400	7,904	6,643	2,662

Gypsum is also produced in Germany, Greece, Luxemburg, Switzerland, U.S.S.R., Yugoslavia, Mexico, China, Iraq and Korea.

(a) Information not available.

(b) Converted from cubic metres at the rate of 1 cubic metre = 2 long tons.

(c) Estimated.

(d) Exports.

(e) Sales.

(f) Sales and shipments.

(g) Figures given in previous publications as "quarried" were the amount of crude gypsum obtained and were not additional to that given as "mined."

(h) Including "Anhydrite."

EXPORTS OF GYPSUM

(Domestic Produce)

(Long tons)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Calcined	6,839	3,416	2,579	1,657	1,317	2,086	1,266
Union of South Africa ..	2,436	2,740	3,000	3,025	3,612	3,638	(a)
Canada—							
Crude	1,040,827	437,359	165,366	345,490	498,779	1,329,205	1,729,455
Ground	64,617	22	—	—	—	—	—
Calcined	328	19	426	396	399	865	1,271
Cyprus—							
Crude	15	—	—	2,887	1,780	10,850	5,800
Calcined	135	224	110	458	655	3,642	1,601
Hong Kong (including re-exports)	(a)	(a)	(a)	(a)	(a)	113	160
Palestine—							
Calcined	(a)	(a)	(a)	20	4	1	(a)
Other	(a)	(a)	(a)	—	4	—	(a)
Australia—							
Crude	27,542	15,873	19,506	17,520	18,155	22,180	27,984
Calcined	414	63	16	1,091	3,936	1,887	3,098
FOREIGN COUNTRIES							
Austria—							
Crude and ground	} (a)	(a)	(a)	(a)	(a)	(a)	(a)
Calcined							
Belgium-Luxembourg E.U.—							
Crude	1,219	167	41	—	6,043	(a)	(a)
Ground and calcined ..	8,057	3,396	4,387	1,881	(a)	(a)	(a)
Denmark—							
Crude and calcined ..	2	3	3	—	—	—	(a)
France—							
Crude and calcined ..	124,491	143,882	110,419	61,650	82,311	310,702	465,897
Germany—							
Gypsum and phosphatic gypsum	95,907	62,173	56,295	(b) 21,273	(a)	(a)	(a)
Italy—							
Crude	} (a)	(a)	(a)	(a)	(a)	(a)	(a)
Calcined							
Alabaster, crude							
Netherlands	74	—	—	(a)	(a)	29	(a)
Portugal—							
Crude	27	26	25	38	76	110	99
Sweden—							
Calcined	6	1	—	1	162	348	19
Switzerland—							
Ground and calcined ..	19	60	109	298	126	2,001	2,638
Algeria	853	64	155	21	98	613	127
Angola—							
Crude	394	360	7	7	(a)	(a)	(a)
Egypt—							
Crude and ground ..	5,111	—	—	11	107	(a)	(a)
Calcined	251	53	84	99	47	(a)	(a)
Morocco (French)	—	26	—	531	1,471	—	—
Morocco (Spanish)	(a)	(a)	(a)	583	793	985	829

(a) Information not available.

(b) January to July only.

EXPORTS OF GYPSUM (Cont.)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Tunis (including re-exports)—							
Calcined	7	—	49	98	75	1	39
Dominican Republic ..	2,992	—	902	2,112	3,206	11,404	(a)
Mexico—							
Calcined	3	1	2	—	6	23,728	(a)
United States—							
Crude and ground ..	13,831	531	4,732	777	953	3,635	8,676
Calcined	2,715	1,660	2,175	5,018	8,001	13,888	20,974
Argentina	6,374	5,861	5,598	3,638	2,515	1,742	(a)

(a) Information not available.

IMPORTS OF GYPSUM

(Less Re-exports)

(Long tons)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Crude, including alabaster	70	1,160	3,035	3,535	67,860	67,413	54,787
Calcined	244	68	60	240	1,407	2,590	5,018
Eire—							
Calcined, etc. . . .	1,120	799	1,305	1,351	566	431	380
Southern Rhodesia—							
Crude and calcined ..	1,965	2,463	2,668	2,372	3,163	2,822	3,038
South West Africa .. .	9	5	11	4	11	(a)	(a)
Union of South Africa—							
Crude and calcined ..	1,945	853	1,070	515	584	(a)	(a)
Canada—							
Crude	2	—	4,464	} 500	793	3,331	67,729
Ground	654	640	437				
Calcined	1,303	1,253	1,073				
1,384	2,575	6,815	7,757				
Newfoundland (b)—							
Crude and calcined ..	(£457)	(c) (£193)	(£679)	100	270	360	383
Hong Kong (total imports)	(a)	(a)	(a)	(a)	(a)	271	189
Palestine—							
Crude and calcined ..	631	5	104	1	5	93	(a)
Australia—							
Crude and calcined ..	582	481	331	58	69	261	171
New Zealand—							
Crude	28,253	13,482	13,161	16,738	14,865	24,374	29,206
Calcined	519	131	283	1,117	4,073	10,176	6,007
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Crude	109,997	106,398	94,702	49,663	(a)	(a)	(a)
Ground and calcined ..	19,888	15,462	9,246	3,608	(a)	(a)	(a)
Bulgaria—							
Crude	604	3,684	1,176	514	(a)	(a)	(a)
Calcined	17	183	61	37	(a)	(a)	(a)
Czechoslovakia—							
Crude and ground ..	(a)	(a)	(a)	(a)	(a)	4,076	16,720
Calcined	(a)	(a)	(a)	(a)	(a)	6,452	14,980
Denmark—							
Crude	9,594	19,525	22,163	14,046	1,686	20,845	21,690
Calcined	4,057	4,836	4,099	3,322	367	5,232	10,167
Finland (total imports)—							
Crude	5,335	4,137	9,723	4,625	16	5,129	22,728
Calcined	4,401	2,830	3,380	1,252	516	3,758	1,674
France—							
Crude and calcined ..	2,146	7,350	4,805	1,672	3,032	3,326	5,678
Germany—							
Gypsum and phosphatic gypsum	7,910	10,503	26,445	(d) 17,311	(a)	(a)	(a)
Iceland	47	38	122	84	84	31	(a)
Netherlands—							
Crude	11,587	14,914	14,457	} (a)	(a)	{ 14,264	28,342
Calcined	20,148	19,544	8,380				
Ground	3,790	1,449	1,420				
15,368	15,450	50,779					

(a) Information not available.

(b) Year ended June 30 of year following that stated for 1941 and ended March 31 subsequently.

(c) Nine months ended March 31, 1943.

(d) January to July.

IMPORTS OF GYPSUM (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Norway—							
Crude	6,773	827	649	—	2,041	15,931	(a)
Ground	3,352	1,844	2,931	1,297	231	2,834	(a)
Portugal—							
Crude	1,608	1,630	2,820	3,100	4,616	8,100	6,205
Calcined	3	10	4	4	3	9	12
Sweden—							
Crude	11,078	19,421	16,379	18,537	1,613	63,129	59,200
Calcined	5,786	5,394	7,230	5,256	1,907	7,207	11,189
Switzerland—							
Ground and calcined ..	423	272	259	117	30	27	91
Algeria—							
Calcined	327	290	30	80	89	93	149
Egypt—							
Crude and ground ..	187	—	—	—	—	—	(a)
Calcined	118	88	8	96	415	(b) 639	(a)
Morocco (French) ..	187	159	64	162	119	697	1,207
Morocco (Spanish) ..	(a)	(a)	(a)	115	93	128	85
Mozambique—							
Crude	447	346	264	644	456	(a)	(a)
Calcined	28	46	142	118	171	(a)	(a)
Tunis—							
Calcined	2	6	—	—	9	20	21
Costa Rica	(a)	(a)	(a)	(a)	20	28	(a)
Cuba (total imports) ..	935	790	922	2,636	1,982	(a)	(a)
United States—							
Crude	1,203,533	352,196	206,538	305,768	454,252	1,301,018	1,925,937
Ground	1,456	936	855	336	206	316	424
Calcined	216	276	65	67	59	228	113
Argentina	63	69	175	13	23	63	(a)
Brazil—							
Crude	129	40	179	600	227	252	(a)
Ground	81	98	69	292	154	161	(a)
Chile	32	8	11	27	25	12	(a)
Colombia—							
Ground	252	37	93	82	256	1,116	(a)
Peru—							
Crude	17	6	3	29	15	11	(a)
Calcined	16	15	7	8	10	13	(a)
Uruguay—							
Ground	(a)	(a)	6,678	7,971	(a)	(a)	(a)
Venezuela	619	197	48	(a)	(a)	(a)	(a)
Iran (total imports) (c) ..	12,902	—	—	(a)	(a)	(a)	(a)
Japan	2,514	3,247	362	147	(a)	(a)	(a)
Syria and Lebanon ..	—	49	159	353	1,193	269	(a)

(a) Information not available.

(b) Total imports.

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

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

Producing Country	ORE										Estimated Iron Content				
	1941	1942	1943	1944	1945	1946	1947	1941	1942	1943	1944	1945	1946	1947	
BRITISH COUNTRIES															
Northern Rhodesia (b) ..	18,874,200	19,905,600	18,493,700	15,471,700	14,174,900	12,172,800	11,090,900	5,441,000	5,363,000	5,326,000	4,321,000	4,086,000	3,518,000	2,927,000	
Sierra Leone ..	267	388	614	209	75	159	1,504	130	190	300	100	40	80	750	
Union of South Africa ..	f1,029,970	f823,270	f556,515	f454,660	685,138	636,194	739,078	587,000	352,000	317,000	280,000	394,000	378,000	434,000	
Canada ..	790,192	706,406	726,474	756,261	852,515	931,879	1,143,779	496,000	425,000	442,000	457,000	532,000	646,000	690,000	
Newfoundland ..	460,747	486,880	572,584	1,013,789	1,388,503	1,388,503	1,805,927	250,000	270,000	315,000	270,000	560,000	670,000	990,000	
India ..	967,727	1,192,870	542,804	464,371	967,062	1,217,112	1,443,410	500,000	620,000	280,000	240,000	503,000	638,000	—	
Malaya ..	3,194,478	3,217,430	2,655,173	2,364,184	2,407,682	2,407,682	2,030,000	2,030,000	2,050,000	1,700,000	1,500,000	1,450,000	1,540,000	—	
Australia ..	d1,148,977	90,776	48,361	10,453	13,375	—	888	—	—	—	—	—	—	—	
New Zealand (g) ..	2,250,668	2,128,408	2,193,331	2,038,638	1,529,371	1,832,555	2,156,109	1,490,000	1,400,000	1,450,000	1,350,000	1,010,000	1,210,000	1,420,000	
	1,544	2,433	4,988	6,036	6,067	7,406	6,226	600	1,100	2,200	2,600	2,500	3,000	2,500	
TOTAL ..	28,800,000	28,400,000	25,800,000	22,100,000	21,600,000	20,600,000	20,900,000								
FOREIGN COUNTRIES															
Austria ..	2,608,000	2,716,900	2,835,000	2,621,325	313,900	452,837	868,863	842,000	810,000	819,000	757,000	(a)	155,000	300,000	
Belgium ..	129,709	111,500	125,870	48,902	29,300	38,152	57,290	46,000	40,000	45,000	17,000	10,000	13,000	20,000	
Bulgaria ..	19,977	2,008,000	1,913,000	1,559,000	272,000	1,098,000	1,431,000	650,000	600,000	570,000	470,000	50,000	350,000	430,000	
Czechoslovakia ..	20,563,000	24,601,000	31,430,000	18,603,000	7,590,948	15,958,730	18,401,000	6,800,000	8,000,000	10,000,000	5,800,000	2,312,000	5,320,000	6,130,000	
France (c) ..	15,221,000	13,068,000	(a)	(a)	(a)	e3,591,826	e4,066,969	(a)	(a)	(a)	(a)	(a)	900,000	1,020,000	
Germany ..	309,400	328,300	336,600	(a)	47,000	131,000	240,300	108,000	115,000	118,000	(a)	16,000	46,000	84,000	
Hungary ..	1,319,240	1,073,376	784,169	2,877,000	(a)	1,47,407	242,585	690,000	560,000	390,000	(a)	(a)	75,000	120,000	
Italy ..	6,722,000	5,029,000	5,170,000	2,211,421	1,383,673	2,211,421	1,960,703	2,000,000	1,500,000	1,500,000	850,000	388,000	660,000	595,000	
Luxembourg ..	457,566	280,005	215,541	260,250	77,298	59,025	125,780	361,000	178,000	137,000	167,000	49,000	35,000	79,000	
Norway ..	892,000	796,000	706,000	670,000	104,000	389,224	496,487	280,000	250,000	230,000	210,000	36,000	130,000	170,000	

* For detailed figures see page 133.
(a) Information not available.
(b) In addition bog ore and iron ore (not used for smelting) were produced as follows:—
1941 8,733 long tons.
1942 9,408 ”
1943 2,617 ”
1944 8,157 ”
1945 5,791 long tons.
1946 6,638 ”
1947

(c) Including Alsace-Lorraine.
(d) January to September only.
(e) British, American and French Zones.
(f) Exports.
(g) Used mainly or entirely for purposes other than iron production.

PRODUCTION OF IRON ORE (Cont.)

Producing Country	ORE										Estimated Iron Content				
	1941	1942	1943	1944	1945	1946	1947	1941	1942	1943	1944	1945	1946	1947	
FOREIGN COUNTRIES															
<i>(Cont.)</i>															
Portugal	1,203	3	1	7	(a)	49	600	600	95,000	108,000	(a)	(a)	25	(a)	
Roumania	164,000	212,000	240,000	(a)	(a)	(a)	74,000	74,000	710,000	700,000	670,000	520,000	710,000	670,000	
Spain	1,691,880	1,580,784	1,562,740	1,484,784	1,152,868	1,570,984	1,490,001	1,490,001	710,000	700,000	670,000	520,000	710,000	670,000	
Sweden	10,361,468	9,922,670	10,648,785	7,138,556	3,867,534	6,758,750	8,754,067	6,073,000	5,899,000	6,299,000	4,262,000	2,398,000	4,238,000	5,479,000	
Switzerland	309,267	299,861	(a)	211,062	17,161	52,454	63,734	115,000	116,000	106,000	85,000	9,000	28,000	31,000	
U.S.S.R. (c)	30,000,000	(a)	(a)	(a)	20,000,000	22,000,000	26,000,000	15,000,000	(a)	(a)	(a)	(a)	(a)	(a)	
Yugoslavia	323,509	324,000	180,624	771,980	1,183,350	1,640,500	1,531,100	169,000	170,000	92,000	406,000	620,000	910,000	830,000	
Egypt	1	55	—	12	6	1	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	
Morocco (French)	1,580	3,200	10,500	6,500	102	1	700	700	1,600	5,400	4,400	50	61,000	76,000	
Morocco (Spanish)	545,916	538,786	538,976	680,000	752,741	774,909	855,291	320,000	320,000	(a)	400,000	430,000	450,000	500,000	
Mozambique	—	—	1,476	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	
Tunis	—	—	—	—	130,358	180,800	393,800	400	12,000	15,000	44,000	68,000	100,000	215,000	
Mexico	1,080	24,000	29,230	86,700	278,000	270,000	360,000	85,000	59,000	21,000	13,000	—	—	18,000	
Cuba	189,805	130,749	46,369	27,922	36,755	36,755	36,755	70,482	100,907	135,757	184,008	172,399	168,079	222,494	
Mexico	113,700	163,000	219,000	300,000	278,000	270,000	360,000	70,482	100,907	135,757	184,008	172,399	168,079	222,494	
United States (b)	93,687,157	107,103,227	102,783,672	85,445,792	89,736,084	71,888,812	94,363,166	47,000,000	54,000,000	52,000,000	49,000,000	46,000,000	36,000,000	47,000,000	
Argentina	3,691	876	148	1,891	698	71,888,812	94,363,166	2,000	500	80	1,100	400	370,000	470,000	
Brazil	814,652	693,082	779,703	550,000	689,943	573,316	(a)	530,000	450,000	510,000	360,000	420,000	370,000	470,000	
Chile	1,669,830	402,768	4,564	18,413	272,531	1,158,462	1,710,111	994,000	240,000	2,800	11,400	170,300	726,000	988,000	
China	61,844	76,273	69,000	39,500	31,000	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	
French Indo-China	51,425	62,000	80,000	23,000	7,800	(a)	(a)	27,000	33,000	43,000	14,000	3,200	(a)	(a)	
Japan (d)	1,542,000	2,389,000	3,085,000	4,069,000	1,398,000	548,792	(e) 488,599	733,000	1,160,000	1,436,000	1,707,000	670,000	220,000	(a)	
Korea	1,664,000	2,242,000	3,222,000	3,279,000	(a)	(a)	(a)	830,000	1,130,000	1,180,000	1,800,000	(a)	(a)	(a)	
Manchuria (c)	4,400,000	4,400,000	4,500,000	3,200,000	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	
Philippine Islands	(f) 835,595	(a)	(a)	6,681	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	
Siam	59,794	18,743	90,302	89,002	123,283	110,438	143,320	36,000	12,000	54,000	24,000	74,000	66,000	87,000	
Turkey	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
TOTAL	199,000,000	202,000,000	210,000,000	180,000,000	135,000,000	134,000,000	166,000,000	166,000,000	166,000,000	166,000,000	166,000,000	166,000,000	166,000,000	166,000,000	
WORLD'S TOTAL	228,000,000	230,000,000	236,000,000	202,000,000	157,000,000	155,000,000	187,000,000	187,000,000	187,000,000	187,000,000	187,000,000	187,000,000	187,000,000	187,000,000	

(a) Information not available.

(b) Usable ore. Including shipments of manganese iron ore up to 35 per cent. Mn.

(c) Estimated.

(d) Including iron sand as follows (long tons): 1941—229,000; 1942—362,000; 1943—420,000; 1944—474,000; 1945—267,110; 1946—8,641

(e) Excluding iron sand.

(f) January to October only.

DETAILS OF PRODUCTION OF IRON ORE IN CERTAIN COUNTRIES

Producing Country	1941	1942	1943	1944	1945	1946	1947	
BRITISH COUNTRIES								
United Kingdom—								
West Coast hematite ..	685,800	615,500	596,100	534,800	405,800	379,100	368,600	
Jurassic ironstones—								
Lower lias	3,581,900	3,671,800	3,271,400	3,085,800	2,688,500	2,660,500	2,615,800	
Middle lias	4,309,200	4,586,800	4,438,200	3,797,000	3,171,900	2,343,400	2,003,800	
Inferior oolite ..	9,937,300	10,635,300	9,852,400	7,869,500	7,759,300	6,657,900	5,984,200	
Coal measure ironstones	236,300	186,900	153,500	24,100	6,800	5,600	2,200	
Other iron ore (hematite, limonite, etc.) ..	223,700	209,300	182,100	160,500	142,600	126,300	116,300	
Union of South Africa—								
Hematite	738,612	648,942	652,783	701,804	} 824,829	899,838	(a)	
Siliceous hematite ..	32,680	42,700	62,093	39,676		2,717	(a)	
Magnetite	—	—	—	1,018		5,042	(a)	
Carbonate	18,900	14,754	11,598	13,763		22,644	29,324	(a)
Canada (d)—								
Siderite (sintered) ..	456,000	482,000	440,000	474,000	462,000	552,000	(a)	
Hematite	—	—	—	16,000	486,000	888,000	(a)	
Newfoundland—								
Hematite	(a)	1,190,126	537,088	462,080	967,062	(a)	(a)	
Magnetite	(a)	2,744	5,716	2,291	—	(a)	(a)	
FOREIGN COUNTRIES								
France (b)—								
Phosphoric	(a)	(a)	(a)	(a)	7,253,695	(a)	(a)	
Medium phosphoric ..	(a)	(a)	(a)	(a)	208,568	(a)	(a)	
Non-phosphoric	(a)	(a)	(a)	(a)	128,685	(a)	(a)	
Italy—								
Iron ore	(a)	(a)	(a)	(a)	(a)	129,538	222,368	
Manganiferous iron ore	(a)	(a)	(a)	(a)	(a)	17,869	20,217	
Luxemburg—								
Siliceous iron ore ..	} (a)	(a)	(a)	(a)	} 728,920	1,287,706	1,143,433	
Calcareous iron ore ..						589,915	802,210	698,762
Ferruginous limestone ..						64,838	121,505	118,508
Poland—								
Hematite	} (a)	(a)	(a)	(a)	(a)	7,500	9,190	
Magnetite						21,578	39,052	
Siderite						—	9,243	
Limonite						35,944	38,094	
Argillaceous iron ore ..						293,747	376,928	
Bog iron ore						30,455	23,980	
Portugal—								
Hematite	297	3	1	—	—	49	—	
Limonite	906	—	—	—	—	—	—	
Magnetite	—	—	—	7	—	—	—	
Sweden—								
Manganiferous iron ore	178,278	185,202	60,644	72,392	67,656	130,538	84,465	
Other iron ore	10,183,190	9,737,468	10,588,141	7,066,164	3,799,878	6,628,212	8,669,602	
By phosphorus content (c)—								
Under 0.006%	965,976	829,158	863,485	732,493	570,139	492,460	496,611	
0.006% to under 0.04%	2,062,079	1,726,831	1,895,987	1,636,727	1,021,255	1,669,400	1,840,918	
0.04% to under 0.1%	627,741	725,184	789,429	255,682	141,056	113,465	121,640	
0.1% to under 0.7%	1,996,626	1,789,464	2,644,460	1,960,915	1,319,140	2,204,305	2,896,585	
0.7% to under 1%	2,362,640	2,290,879	1,442,314	1,204,312	465,268	765,104	792,445	
1% and over	2,343,868	2,534,154	3,013,110	1,348,427	350,676	1,514,016	2,605,868	
Algeria—								
Non-phosphoric	323,509	324,000	180,624	771,980	1,183,850	1,640,500	1,531,500	
Tunis—								
Non-phosphoric	1,030	24,000	29,230	86,700	130,358	180,800	393,800	

(a) Information not available.

(b) Figures published previously as phosphorus content were incorrect. The percentages given referred to the ratio of phosphorus to iron and not to the phosphorus content.

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

(d) Shipments. These figures do not agree with those on page 131 which refer to actual production.

DETAILS OF PRODUCTION OF IRON ORE (Cont.)

Producing Country	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
United States—							
Ore containing less than 5% Mn—							
Hematite*	92,409,579	99,704,591	94,418,034	86,726,870	81,294,688	65,728,172	(a)
Magnetite*		3,541,003	4,549,181	5,578,807	5,620,810	3,920,986	(a)
Limonite		1,637,140	1,627,490	1,218,509	942,910	686,402	(a)
Siderite		450	617	611	545	650	(a)
Pyrite cinder and sinter	—	643,011	652,513	592,908	517,440	506,903	(a)
Ore containing 5 to under 10% Mn	820,290	1,339,833	1,117,210	1,062,925	1,257,613	955,977	(a)
Ore containing 10 to under 35% Mn	457,288	237,199	418,627	265,162	102,078	89,722	(a)
Argentina—							
Magnetite	3,691	834	148	(a)	(a)	(a)	(a)
Hematite	—	42	—	(a)	(a)	(a)	(a)
Turkey—							
Magnetite	59,794	18,743	90,302	89,002	123,283	110,438	143,320

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

(a) Information not available.

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

Exporting Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom	504	461	359	378	434	792	1,053
Eire—							
Bog ore	11,365	13,304	4,333	3,931	5,224	2,619	2,141
Burnt pyrites	9,681	3,278	10,077	8,969	16,026	7,996	4,325
Sierra Leone	1,029,970	623,270	556,515	454,660	780,884	603,647	673,685
Union of South Africa ..	266,598	86,333	—	16	3	(a)	(a)
Canada	251,626	264,250	334,533	275,379	688,835	1,022,550	1,562,479
Newfoundland	1,182,180	865,899	809,020	583,179	1,006,429	1,250,031	1,258,020
British India	—	—	—	—	—	—	(a)
Malaya	(e)1,174,000	(e) 89,000	(e) 42,000	—	(a)	3	—
Australia	—	—	—	21	5	20	23
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.	47,389	6,759	22,922	12,188	485	2,560	22,637
Bulgaria	18,918	24,455	12,117	2,372	(a)	(a)	(a)
Czechoslovakia	(a)	(a)	(a)	(a)	(a)	48,251	15,730
Finland	27	—	2	—	1	479	—
France	4,349,214	8,211,159	9,313,999	4,879,802	1,643,500	5,344,790	6,493,478
Germany	3,063,865	2,223,314	2,563,638	(d) 851,451	(a)	(a)	(a)
Greece	(a)	(a)	(a)	(a)	—	12,385	(a)
Italy.. .. .	(a)	(a)	(a)	(a)	(a)	—	71,958
Norway—							
Iron ore	497,332	559,475	337,018	238,778	42,877	4,938	50,358
Burnt iron pyrites ..	40,141	25,596	33,144	21,559	1,181	3,891	11,846
Portugal	199	1,495	—	—	—	1,084	509
Spain	549,772	660,961	581,486	519,202	256,625	776,476	718,269
Sweden	9,390,218	8,489,002	10,095,122	4,525,783	1,209,510	5,231,688	8,369,916
Switzerland	232,840	217,960	201,969	191,367	11,693	78,667	69,454
Algeria	237,700	455,400	436,800	753,600	1,343,531	1,560,759	1,523,741
Morocco (French)	700	12,200	6,500	7,500	6,889	93,500	176,370
Morocco (Spanish)	(a)	(b) 448,470	(b) 601,081	664,641	703,633	806,723	888,401
Tunis (e)	17,980	53,909	—	2,200	1,336	172,477	351,848
Cuba	107,776	14,487	14	108	162	(a)	(a)
Mexico	4,019	6,294	16,687	67,660	44,105	9,661	64,347
United States	1,907,612	2,515,388	2,424,801	2,158,740	2,063,125	1,505,854	2,806,844
Brazil	414,150	314,042	317,704	202,548	295,256	63,396	193,630
Chile	1,596,080	411,333	—	—	214,070	1,165,100	1,719,409
China (e)	2,466,421	3,910,252	3,203,392	1,009,796	14,763	(a)	(a)
French Indo-China	37,508	60,100	6,500	—	(a)	(a)	(a)
Korea (e)	748,000	654,000	231,000	600,000	122,042	(a)	(a)
Manchuria (e)	51,178	61,021	—	8,858	4,921	(a)	(a)
Philippine Islands (e)	502,929	27,558	124,010	22,637	—	(a)	(a)
New Caledonia	46,041	—	—	—	—	—	—

(a) Information not available.

(b) Exports via the port of Melilla.

(c) Including re-exports.

(d) January to July only.

(e) Exports to Japan from the country indicated during years ended March 31 of that stated.

IMPORTS OF IRON ORE

(Less Re-exports)

(Long tons)

Importing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom	2,294,993	1,921,649	1,894,279	2,172,244	4,068,218	6,594,556	6,797,810
Eire	5	—	—	—	—	65	—
Canada	2,905,942	2,412,471	3,487,879	2,791,651	3,339,167	2,037,212	3,521,919
Trinidad and Tobago	121	77	—	50	50	—	—
British India	—	—	12	—	—	54	—
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.	1,446,824	3,219,506	4,558,258	1,563,662	1,816,149	5,889,794	6,676,383
Czechoslovakia	(a)	(a)	(a)	(a)	(a)	1,276,875	1,813,924
Finland (b)	7,687	3,338	28,238	52,449	35,335	79,837	77,768
France	116,248	341,863	105,949	26,627	49,894	96,714	185,707
Germany	17,106,444	17,538,923	19,219,931	(d)8,081,146	(a)	(a)	(a)
Hungary (including burnt pyrites)	(a)	(a)	(a)	(a)	(a)	122,852	569,514
Italy	150,000	150,000	(a)	(a)	(a)	(a)	34,736
Netherlands	353,991	282,289	156,887	(a)	(a)	210,455	477,935
Norway	8,615	18,883	22,613	10,666	4,027	31,177	(a)
Poland	(a)	(a)	(a)	(a)	228,970	964,430	(a)
Spain	83,009	104,746	92,794	101,360	76,782	105,448	13,362
Sweden	157	118	370	99	3	907	883
Switzerland (c)	51,530	102,809	53,073	9,743	36,709	86,227	52,301
Algeria	—	—	14	1,023	10	1,719	4,057
Tunis	—	287	—	—	—	97	787
United States	2,321,159	731,325	399,117	456,739	1,145,330	2,820,532	4,889,326
Japan (e)	4,978,116	4,802,927	3,608,101	1,641,656	141,726	(a)	(a)

(a) Information not available.

(b) Total imports.

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

(d) January to July only.

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

PRODUCTION OF PIG-IRON AND FERRO-ALLOYS*

(Long tons)

Producing Country	1941	1942	1943	1944	1945	1946	1947		
BRITISH COUNTRIES									
United Kingdom	7,392,500	7,725,600	7,186,900	6,736,500	7,107,400	7,761,200	7,784,600		
Union of South Africa ..	309,100	358,900	479,200	464,100	546,879	551,161	632,053		
Canada	1,546,792	1,950,028	1,745,860	1,807,099	1,746,480	1,385,066	1,892,570		
India	2,042,200	1,850,900	1,759,600	1,443,260	1,387,500	1,415,100	1,409,500		
Australia (b)	1,547,796	(g)1,557,641	1,439,228	(g)1,305,357	1,159,483	(g) 906,283	(g)1,143,132		
TOTAL	12,840,000	13,440,000	12,610,000	11,760,000	11,948,000	12,019,000	12,862,000		
FOREIGN COUNTRIES									
Austria	636,223	811,598	996,250	942,014	99,946	56,950	274,106		
Belgium	1,399,630	1,249,401	1,604,817	707,142	722,978	2,126,703	2,776,466		
Czechoslovakia	1,547,000	1,571,000	1,677,000	1,559,000	567,000	945,000	1,400,000		
Finland	21,820	28,778	42,594	98,783	36,222	75,871	62,147		
France	3,298,000	3,777,000	4,843,000	2,847,000	1,178,235	(d)3,389,493	(d)4,808,548		
Germany—									
Bizonal Area (c)	} 15,197,000	15,090,000	15,720,000	13,158,000	(a)	{ 2,050,511	2,225,470		
French Zone								236,000	650,000
Russian Zone								(a)	(a)
Hungary	435,200	411,100	410,900	390,000	43,000	157,800	298,800		
Italy	1,092,384	959,859	715,667	304,263	73,964	201,305	377,877		
Luxemburg	1,323,000	1,662,000	2,246,000	1,327,000	313,000	1,343,400	1,789,300		
Netherlands	176,200	149,000	92,500	65,900	24,600	184,200	285,600		
Norway	121,347	109,087	142,568	121,791	50,190	133,271	162,709		
Poland	(a)	(a)	(a)	(a)	(f) 227,000	714,274	853,426		
Roumania	116,524	159,140	222,919	(a)	(a)	(a)	(a)		
Spain	538,206	540,506	686,727	559,558	480,507	499,815	509,896		
Sweden	737,634	758,600	817,728	874,180	772,905	707,975	713,125		
U.S.S.R. (e)	(a)	(a)	(a)	(a)	10,000,000	11,200,000	12,800,000		
Mexico	106,810	104,827	144,736	132,504	214,874	277,785	(a)		
United States	50,613,039	54,377,950	56,044,595	56,130,534	49,034,847	41,531,095	53,676,178		
Brazil	205,497	210,245	244,453	286,617	255,803	364,867	473,047		
Chile	6,503	4,307	9,110	5,854	6,739	(a)	(a)		
China	(a)	(a)	(a)	13,325	22,200	1,305	(a)		
Japan	4,243,000	4,354,000	4,048,000	2,750,000	965,000	208,440	361,153		
Korea	295,514	392,135	534,909	558,888	(a)	(a)	(a)		
Manchuria	1,338,000	1,656,000	1,699,000	1,563,000	(a)	(a)	(a)		
Turkey	84,600	64,200	54,500	68,693	68,426	76,670	97,464		
TOTAL	95,000,000	95,000,000	100,000,000	94,000,000	67,000,000	67,000,000	85,000,000		
WORLD'S TOTAL..	108,000,000	108,500,000	113,000,000	106,000,000	79,000,000	79,000,000	98,000,000		

* For details see page 138.

(a) Information not available.

(b) Years ended June 30 of that stated.

(c) British and American Zones.

(d) Excluding electric furnace ferro-alloys.

(e) Estimated.

(f) February to December only.

(g) Excluding direct castings.

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

(Long tons)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Hematite	905,900	963,700	927,200	1,009,200	1,076,200	1,121,000	1,116,500
Basic	5,182,300	5,553,300	5,070,000	4,791,600	4,883,700	5,288,300	5,183,300
Foundry	1,081,800	963,400	1,025,300	740,300	964,000	1,134,500	1,281,800
Forge	101,100	69,200	40,400	35,400	51,900	65,900	70,300
Castings	1,000	1,100	400	500	300	1,400	1,000
Spiegeleisen (b)	120,400	174,900	123,600	15,500	26,600	35,300	28,700
Ferro-manganese (b)							
Other ferro-alloys (d)—							
Tungsten (e)	(a)	(a)	(a)	2,100	2,700	2,000	3,100
Molybdenum (e)				1,200	800	600	1,100
Vanadium (e)				200	200	200	300
Ferro-chrome				8,500	6,500	7,400	6,800
Refined ferro-manganese				3,900	3,600	4,100	3,800
Ferro-phosphorus				—	—	500	1,100
Ferro-silicon			5,000	6,000	6,500	6,300	
Canada—							
Basic	1,135,867	1,469,644	1,300,490	1,369,768	1,268,040	989,995	1,417,513
Foundry	103,385	142,611	132,726	128,360	177,004	135,021	209,622
Malleable	125,081	151,151	136,667	156,004	142,410	130,566	131,656
Ferro-alloys	182,459	186,622	175,977	152,967	159,026	129,484	133,779
India—							
Basic	1,484,800	1,307,100	1,349,500	1,129,800	1,098,600	1,075,500	967,800
Foundry and forge	525,500	522,600	367,900	307,200	282,700	324,900	425,900
Ferro-alloys	31,900	21,200	42,200	6,200	6,200	14,700	15,800
FOREIGN COUNTRIES							
Belgium—							
Basic	1,303,385	1,130,312	1,450,621	614,745	612,402	1,980,804	(a)
Forge	34,190	48,728	60,657	26,574	15,777	36,130	
Foundry	45,835	55,568	84,396	64,357	91,403	97,200	
Ferro-alloys	16,220	14,793	9,143	1,466	3,396	12,569	
Finland—							
Pig-iron	21,577	28,180	41,072	97,530	34,464	75,537	61,932
Ferro-alloys	243	598	1,522	1,253	1,758	334	215
France—							
Phosphoric (over 1% P)—							
Basic	2,772,506	3,078,142	4,035,375	2,383,954	880,253	2,695,624	3,754,281
Foundry	185,833	177,615	207,263	98,928	88,043	204,075	291,646
Semi-phosphoric (from 0.12% to 1% P)—							
Foundry	12,060	21,650	36,539	14,729	20,887	23,687	45,146
Open hearth, basic	323	2,187						(c)	(c)	651	22,790
Hematite (less than 0.12% P)—							
Foundry	148,405	114,337	80,767	58,109	77,463	128,724	173,624
Open hearth	125,793	155,288	194,428	6,889			
Bessemer	571	181	8,649	6,673			
Other pig-iron	36,111	179,579	218,855	142,557	—	(f) 62,053	(f) 109,267
Spiegeleisen	1,938	37,073	49,848	31,993	13,140	(h) 28,792	(h) 78,650
Ferro-manganese	14,513	11,805	11,571	3,776	3,593	(h) 16,231	(h) 33,536
Ferro-silicon	(a)	(a)	(c) 18,405	(c) 62,556	11,720	—	—
Other ferro-alloys	(a)	(a)	(c) 8,113	(c) 3,664	4,599	(g)	(g)

(a) Information not available.

(c) Excluding Alsace-Lorraine.

(e) Metal content.

(g) Included with "other pig-iron."

(b) Blast furnace ferro-alloys.

(d) Excluded from totals on page 137.

(f) Including "other ferro-alloys."

(h) Excluding electric furnace ferro-alloys.

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

Producing Country	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Germany—							
Hematite	664,000	734,000	968,000	918,000	(a)	(a)	(b) 139,566
Basic	10,016,000	9,974,000	10,681,000	8,884,000	(a)	(a)	(b) 1,790,751
Foundry	788,000	753,000	760,000	536,000	(a)	(a)	(b) 246,929
Forge, etc.	409,000	426,000	239,000	189,000	(a)	(a)	(b) 48,224
Special pig-irons and ferro-alloys	3,320,000	3,203,000	3,072,000	2,631,000	(a)	(a)	
Italy—							
Pig-iron	1,021,154	876,000	633,672	227,969	60,960	173,903	312,983
Spiegeleisen	23,208	32,329	30,273	19,661	3,504	11,673	19,066
Ferro-manganese	11,285	8,871	14,917	7,103	1,750	7,603	20,312
Ferro-silicon	14,227	20,268	13,843	25,808	3,598	1,438	9,035
Ferro-silico-manganese	3,368	7,861	8,471	8,383	1,915	2,657	6,201
Ferro-chrome	5,285	8,002	5,340	6,281	1,043	62	1,078
Ferro-titanium	362	227	156	—	13	12	40
Ferro-tungsten	55	114	56	—	—	9	91
Ferro-vanadium	80	206	120	—	16	—	—
Ferro-molybdenum	82	5	34	—	—	9	7
Ferro-silico-aluminium	293	609	130	249	—	288	522
Other ferro-alloys	12,985	5,361	8,655	8,819	734	3,733	8,542
Luxemburg—							
Basic	(a)	(a)	(a)	(a)	298,000	1,343,400	1,788,300
Foundry							
Norway—							
Pig-iron	48,701	47,839	46,934	38,021	33,336	71,907	73,424
Ferro-silicon	53,446	53,859	82,901	65,274	15,735	26,030	36,309
Other ferro-alloys	19,200	7,389	12,733	18,496	3,119	35,334	52,976
Poland—							
Open hearth	(a)	(a)	(a)	(a)	(a)	606,795	664,443
Foundry							
Phosphoric							
Hematite							
Spiegeleisen							
Ferro-alloys							
Ferro-alloys	61,536	136,888	(a)	(a)	(a)	10,744	11,599
Spain—							
Pig-iron	528,944	528,364	670,349	543,144	470,100	483,100	494,900
Ferro-manganese	6,706	7,858	11,657	11,421	6,567	11,822	10,098
Ferro-silicon	2,550	4,116	4,712	4,972	3,803	4,783	4,783
Ferro-tungsten	6	168	9	21	37	110	115
Sweden—							
Open hearth, acid	205,419	163,173	170,257	170,411	158,799	138,972	119,647
do. basic	179,659	191,649	205,675	257,200	237,916	173,622	191,027
Bessemer, acid	5,717	24,175	25,956	29,901	15,038	12,419	9,250
do. basic	199,750	209,672	227,709	215,389	211,384	173,795	200,372
Foundry-hematite	35,037	39,733	36,338	36,525	28,787	43,507	35,223
do. phosphoric	45,591	47,969	53,811	87,770	55,158	93,170	101,226
do. other	6,252	4,352	15,112	2,094	1,469	2,683	3,784
Forge	14,635	33,984	33,287	29,124	30,405	24,462	12,934
Castings	11,040	11,333	11,701	11,884	10,376	12,890	13,364
Spiegeleisen	517	2,054	4,417	4,612	290	579	650
Ferro-manganese	3,396	1,454	2,239	1,897	2,693	3,935	4,878
Ferro-silicon	11,868	12,163	13,643	14,047	7,356	8,339	6,259
Ferro-silico-manganese	3,357	8,607	5,926	4,785	4,468	3,734	2,982
Ferro-chrome	10,892	5,123	5,881	6,263	7,652	13,252	9,068
Ferro-titanium	93	69	44	53	38	5	42
Ferro-tungsten	443	172	197	148	343	898	1,686
Ferro-molybdenum	205	150	90	26	178	420	329
Ferro-vanadium	7	53	109	93	10	39	91
Other ferro-alloys	127	165	144	192	189	145	26
Metallic silicon	2,326	2,548	5,188	983	167	—	287

(a) Information not available.

(b) British and American Zones only.

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

Producing Country	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
<i>Sweden—continued</i>							
Silico-calcium	37	—	—	—	—	—	—
Silico-chrome	1,253	—	—	792	237	1,009	—
Metallic chrome	13	2	6	—	—	—	—
Metallic manganese	—	—	6	—	—	—	—
<i>United States—</i>							
Basic	35,499,858	38,868,629	40,513,091	40,969,650	35,595,520	30,113,978	40,004,235
Bessemer	8,502,092	8,808,232	9,159,632	8,711,461	7,370,994	5,296,798	6,412,685
Low phosphorus	423,596	502,386	481,100	423,827	280,413	149,119	295,641
Foundry	2,465,024	2,273,687	1,838,840	1,955,965	2,007,935	2,273,157	2,636,969
Forge	959	—	—	—	—	—	—
Malleable	2,158,158	2,142,429	2,136,822	2,227,374	2,098,282	1,955,612	2,566,743
Other pig-iron	147,233	151,015	165,755	182,651	167,543	192,404	163,113
Ferro - manganese and spiegeleisen	651,794	700,985	717,521	722,891	630,427	482,197	714,933
Ferro-silicon	651,532	786,467	824,509	748,164	730,222	927,804	716,943
Other ferro-alloys	112,793	144,120	207,325	188,551	153,511	140,026	164,916
<i>Japan (b) (c)—</i>							
Pig-iron	4,110,000	4,193,000	3,921,000	2,634,000	945,000	195,260	349,300
Ferro-chrome	20,887	21,322	31,329	19,682	} 20,468	} 13,180	} 11,853
Ferro-manganese	67,470	85,332	62,150	56,285			
Ferro-molybdenum	972	537	359	310			
Ferro-phosphorus	1,354	1,523	1,139	962			
Ferro-silicon	32,861	25,334	23,120	30,095			
Ferro-titanium	220	101	246	280			
Ferro-tungsten	2,902	2,118	3,165	1,542			
Ferro-vanadium	737	405	288	176			
Other ferro-alloys	(a)	(a)	(a)	(a)			

(a) Information not available.

(b) In addition the following metals were produced (long tons) :—

	1943	1944
Metallic manganese	2,329	2,120
Metallic silicon	2,717	2,762

(c) The aggregates of these items for the years 1941 to 1944 do not agree with the totals given on page 137 as the break-down of the ferro-alloys was obtained from a different source.

PRODUCTION OF STEEL INGOTS AND CASTINGS*

(Long tons)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom	12,312,200	12,941,700	13,031,200	12,142,200	11,824,400	12,695,300	12,724,500
Union of South Africa ..	333,800	340,700	411,500	475,900	525,400	498,926	588,304
Canada	2,421,563	2,776,653	2,682,254	2,693,002	2,569,578	2,077,933	2,629,612
India	1,408,200	1,343,300	1,402,200	1,368,900	1,352,800	1,301,000	1,261,100
Australia (c)	1,684,008	1,699,793	1,707,198	1,592,935	1,405,005	1,093,272	1,346,868
TOTAL	18,160,000	19,100,000	19,230,000	18,270,000	17,677,000	17,666,000	18,550,000
FOREIGN COUNTRIES							
Austria	774,987	861,373	985,570	979,000	168,528	184,054	350,977
Belgium	1,598,204	1,358,500	1,643,733	623,829	737,328	2,260,299	2,851,140
Czechoslovakia	2,374,000	2,339,000	2,527,000	2,480,000	933,000	1,642,000	2,250,000
Finland	54,966	75,446	88,539	84,903	79,134	81,903	61,137
France	4,241,792	4,417,455	5,046,108	3,042,906	1,634,745	4,338,485	5,642,278
Germany—							
Bizonal Area (g)						2,497,816	2,962,203
French Zone					(a)	295,000	744,000
Russian Zone						(a)	(a)
Hungary	769,300	772,100	764,100	683,000	126,400	347,300	587,400
Italy	2,030,007	1,903,135	1,699,922	1,009,986	388,521	1,135,078	1,676,918
Luxemburg	1,225,000	1,541,000	2,117,000	1,249,000	255,000	1,273,600	1,686,000
Netherlands	187,000	157,500	79,700	59,100	13,000	135,800	204,000
Poland	(a)	(a)	1,480,000	1,380,000	(e) 493,700	1,200,167	1,554,180
Roumania	(a)	(b) 290,000	345,000	(a)	(a)	(a)	(a)
Spain	677,900	624,200	655,600	642,500	561,100	622,500	589,300
Sweden	1,138,133	1,208,622	1,194,824	1,178,526	1,184,440	1,183,773	1,171,897
U.S.S.R. (b)	20,700,000	(a)	(a)	(a)	13,000,000	14,200,000	15,500,000
Mexico	93,300	93,300	173,600	178,400	189,000	246,800	316,300
United States (d)	73,963,624	76,814,224	79,318,314	80,037,143	71,162,186	59,466,718	75,798,278
Brazil	152,605	157,093	181,414	215,836	202,683	337,236	381,896
Japan	6,732,000	6,933,000	7,700,000	5,823,000	2,055,000	555,536	926,466
Korea	125,495	138,038	118,607	112,456	(a)	(a)	(a)
Manchuria (f)	647,000	704,000	1,170,000	1,390,000	(a)	(a)	(a)
Turkey	33,000	49,300	42,100	59,820	63,174	78,632	91,100
TOTAL	138,000,000	128,000,000	136,000,000	130,000,000	95,000,000	92,100,000	115,400,000
WORLD'S TOTAL ..	156,000,000	147,000,000	155,000,000	148,000,000	112,700,000	109,800,000	134,000,000

* For details see page 142.

(a) Information not available.

(b) Estimated.

(c) Years ended June 30 of that stated.

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

(e) February to December only.

(f) U.S. Bureau of Mines "Foreign Minerals Survey."

(g) British and American Zones.

DETAILS OF PRODUCTION OF STEEL INGOTS AND CASTINGS IN CERTAIN COUNTRIES

(Long tons)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Ingots—							
Open hearth, acid ..	1,740,700	1,532,300	1,343,200	1,115,400	1,111,900	1,185,700	1,183,000
do. basic ..	8,933,700	9,376,900	9,542,100	9,084,500	9,014,000	9,890,000	9,860,700
Bessemer, acid ..	97,900	95,500	72,100	85,400	170,700	209,800	207,900
do. basic ..	695,800	726,400	731,300	708,500	687,000	723,800	678,200
Electric ..	411,500	638,700	726,400	546,700	361,400	345,000	425,700
Castings, electric ..	161,300	221,000	265,600	248,400	180,600	134,300	150,000
All other ingots and castings ..	271,300	350,900	350,500	353,300	298,800	206,700	219,000
Canada—							
Ingots—							
Open hearth, basic ..	2,137,587	2,342,725	2,218,343	2,248,120	2,142,730	1,694,606	2,177,755
do. electric ..	178,048	299,154	323,386	317,834	319,010	315,876	370,934
Castings—							
Open hearth, basic ..	26,251	23,774	25,799	31,279	27,871	21,934	21,490
Bessemer ..	3,010	5,817	3,574	2,205	842	536	241
Electric ..	76,667	105,181	111,152	93,564	79,125	44,980	59,192
India—							
Ingots—							
Open hearth, basic ..	1,325,919	1,239,860	1,274,652	1,215,035	1,195,000	1,163,200	1,132,900
do. acid ..	9,890	31,120	57,835	68,728	69,000	62,400	51,100
Electric ..	58,000	58,600	54,300	65,400	70,200	55,900	60,100
Castings ..	14,400	13,700	15,400	19,800	18,600	19,500	17,000
FOREIGN COUNTRIES							
Belgium—							
Ingots, open hearth ..							
do. Bessemer, basic ..	306,128	309,602	332,888	125,378	157,276	355,722	377,409
do. electric ..	1,214,314	982,198	1,255,167	469,004	542,603	1,835,752	2,368,054
do. electric ..	22,046	18,661	15,855	5,570	8,809	19,379	42,619
Castings ..	55,716	48,039	39,821	23,877	28,640	49,446	63,058
France—							
Ingots and castings—							
Bessemer, acid ..	56,751	53,141	49,880	26,742	32,397	54,264	58,617
do. basic ..	2,181,179	2,540,186	3,215,292	1,963,293	750,253	2,258,523	3,091,164
Open hearth, acid ..	—	—	—	—	701	—	1,357
do. basic ..	1,615,880	1,468,582	1,427,206	812,802	623,280	1,592,223	1,994,599
Crucible ..	2,818	2,224	2,742	1,821	3,384	3,246	4,249
Electric ..	385,164	353,370	350,999	238,249	224,730	430,229	492,292
Of which—							
Ingots ..	4,088,400	4,275,400	4,927,000	2,978,000	1,513,163	4,196,479	5,480,873
Castings ..	152,600	141,700	118,100	65,000	121,582	142,006	161,405
Germany—							
Ingots—							
Open hearth ..	10,346,000	9,896,000	9,389,000	8,338,000	(a)	(b)1,142,349	(b)1,690,352
Bessemer, basic ..	7,776,000	7,744,000	8,034,000	6,673,000	(a)	(b)1,276,932	(b)1,153,697
Electric ..	1,144,000	1,256,000	1,504,000	1,488,000	(a)	(b) 18,187	(b) 46,303
Other ..	—	—	—	—	(a)	(b) 7,087	(b) 14,486
Castings—							
Open hearth ..	502,000	461,000	457,000	390,000	}	(a)	(b) 53,261
Bessemer ..	371,000	440,000	584,000	629,000			
Electric ..	341,000	341,000	438,000	488,000			
Italy—							
Ingots ..	1,909,643	1,792,853	1,609,181	962,758	360,338	1,077,299	1,599,638
Castings ..	120,365	110,282	90,741	47,228	28,183	57,779	77,280

(a) Information not available.

(b) British and American Zones only.

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

Producing Country	1941	1942	1943	1944	1945	1946	1947	
FOREIGN COUNTRIES (Cont.)								
Luxemburg—								
Ingots, open hearth ..	}	(a)	(a)	(a)	{	—	—	
do. Bessemer, basic ..						254,000	1,262,600	1,661,000
do. electric						1,000	10,000	25,000
Poland—								
Ingots	(a)	(a)	(a)	(a)	(a)	1,180,845	(a)	
Castings	(a)	(a)	(a)	(a)	(a)	19,327	(a)	
Spain—								
Open hearth	451,200	440,600	434,700	429,900	376,800	406,300	387,300	
Bessemer	179,500	147,000	177,200	170,100	150,000	164,200	161,800	
Electric	47,200	36,600	43,700	42,500	34,300	52,000	40,200	
Sweden—								
Open hearth, acid ..	205,367	191,485	180,526	162,525	174,782	182,450	179,081	
do. basic	498,158	557,492	557,036	557,513	527,298	501,062	473,047	
Bessemer, acid	4,018	9,410	12,644	9,157	17,953	21,493	23,567	
do. basic	97,650	111,140	102,550	104,692	109,038	92,362	122,097	
Crucible	343	442	266	81	—	—	—	
Electric	332,599	338,652	341,801	344,559	355,368	386,406	374,105	
United States—								
Ingots—								
Open hearth, acid ..	770,012	946,746	1,053,321	890,942	632,123	418,175	482,149	
do. basic	65,386,570	67,041,632	68,844,881	70,600,455	63,389,125	53,624,948	67,984,704	
Bessemer	4,980,421	4,958,414	5,022,761	4,499,951	3,844,035	2,971,194	3,779,056	
Crucible	2,065	1,795	130	22	20	} 2,213,450	3,286,177	
Electric	2,561,836	3,548,696	3,994,087	3,689,021	3,019,356			
Castings (b)—								
Open hearth, acid ..	71,332	86,103	209,121	176,611	144,418	117,238	111,177	
do. basic	191,388	230,837	90,716	85,522	66,122	46,747	59,284	
Electric	98,790	116,771	103,297	94,639	66,987	74,964	95,729	
Japan (c)—								
Open hearth	5,526,710	5,589,064	5,794,442	} 5,823,000	2,055,000	{ 160,354	474,944	
Electric	1,201,430	1,397,195	2,192,618					{ 395,182	451,522
Korea—								
Ingots	114,957	125,822	105,836	98,305	(a)	(a)	(a)	
Castings	10,538	12,216	12,771	14,151	(a)	(a)	(a)	

(a) Information not available.

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

(c) The aggregates of these items for the years 1941 to 1944 do not agree with the totals given on page 141 as they were obtained from a different source.

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

(Domestic Produce)

(Long tons)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Pig-iron—							
Forge and foundry ..	728	1,395	3,347	2,554	1,038	30,757	41,750
Acid	135	—	—	—	—	30	—
Basic	—	—	—	6	—	1,322	771
Spiegeleisen and ferro-							
manganese	17,305	3,617	797	150	31,729	58,636	9,069
Ferro-tungsten	1,248	154	14	16	159	277	960
Other ferro-alloys ..	1,188	221	940	617	1,131	981	795
Iron and steel ingots ..	104	1	—	—	—	25	23
Blooms, billets and slabs—							
Iron	15	53	6	6	—	12	285
Steel	78	265	1,725	326	575	3,071	3,240
Special steel	12	23	1	4	7	1,505	144
Old and scrap	916	222	50	77	207	9,949	10,678
Eire—							
Old and scrap	12,085	2,122	1,061	878	3,081	20,021	10,001
Union of South Africa—							
Pig-iron, etc.	985	2,294	2,829	4,589	5,134	3,465	(a)
British West Indies—							
Trinidad and Tobago—							
Old and scrap	360	42	—	—	4	—	109
Canada—							
Pig-iron	339	381	391	5,087	19,512	838	1,317
Spiegeleisen	6,978	2,100	2,904	3,356	3,004	792	747
Ferro-chrome	(d)	(d)	(d)	(d)	(d)	5,604	27,734
Ferro-manganese ..	(d)	(d)	(d)	(d)	(d)	29,005	65,554
Ferro-silicon	65,453	66,562	67,618	53,926	56,673	42,161	54,949
Other ferro-alloys ..	49,353	49,289	54,928	36,334	62,754	7,529	9,334
Billets, ingots and blooms	144,682	31,125	6,961	21,287	40,074	70,818	75,920
Old and scrap	25,079	51,204	94,408	60,986	25,410	10,852	2,732
British India (b)—							
Pig-iron	581,713	243,246	204,593	(e) 180,521	(e) 67,417	(e) 8,367	(a)
Ferro-manganese ..	1	1	4,133	703	—	(e) 10,900	(a)
Old and scrap (including re-exports)	463	—	—	—	—	—	—
Malaya (including re-exports)—							
Pig-iron	(a)	(a)	(a)	(a)	(a)	2	252
Scrap	(a)	(a)	(a)	(a)	(a)	444	1,461
Burma—							
Old and scrap	(a)	(a)	(a)	(a)	(a)	(c) 101	(a)
Hong Kong (including re-exports)—							
Pig-iron	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Tool steel	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Old and scrap	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Palestine—							
Old and scrap	—	—	—	1	6	(a)	(a)
Australia—							
Pig-iron	12,815	42,283	6,856	11,394	4,827	54,049	113,459
Ferro-alloys	—	—	—	—	—	106	3
Ingots, blooms, billets, etc.	80,049	14,741	7,723	12,881	52,360	130,845	44,018
Old and scrap	74	3,685	2,134	2,228	30	20,286	10,518

(a) Information not available.

(b) Includes trade by land as recorded.

(c) February to September only.

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

(e) Sea-borne trade only

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

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES							
Austria—							
Pig-iron and scrap	(a)	(a)	(a)	(a)	(a)	(a)	157,327
Belgium-Luxemburg E.U.—							
Pig-iron and ferro alloys	489	285	5,815	5	}	(a)	(a)
Crude iron ingots	37	15	2	—			
Steel ingots	81	806	641	299			
Steel blooms and billets	19,496	15,303	1,163	10,879			
Special steel	111	194	49	74			
Old and scrap	92,478	13,242	1,812	686			
Bulgaria—							
Old and scrap	1,071	1,083	2,617	—	(a)	(a)	(a)
Czechoslovakia—							
Ferro-alloys	}	(a)	(a)	(a)	(a)	527	344
Billets of cast iron						468	—
Billets, blooms and bars						2,209	399
Of puddled iron							239
Old and scrap							
Denmark—							
Old and scrap	43,277	30,797	25,395	10,039	15,762	44,436	50,030
Finland—							
Pig-iron and ferro-alloys	1,054	565	5,664	10,021	3,919	11,601	7,219
Old and scrap	439	97	68	2	20	100	1
France—							
Pig-iron—							
Forged or refined	120,706	70,600	147,595	47,953	535	18,754	12,061
Speiseleisen	1,225	728	—	—	—	10	—
Ferro-manganese	723	141	537	2,135	17	334	951
Ferro-silicon	533	366	22	224	183	905	2,080
Ferro-chrome	2	1,160	29	10	1	39	37
Other ferro-alloys	251	712	386	88	217	219	260
Ingots	199	583	12	1,221	1	218	2,396
Blooms and billets, forged							
or rolled	12,408	8,710	39,845	50,710	2,660	2,555	3,764
Tool steel	164	187	143	22	152	618	1,705
Machine iron or steel	4,826	18,040	5,696	13,210	6	9,256	13,925
Other special steel	2,564	3,963	5,619	6,007	108	776	8,522
Old, filings and scrap	176,223	118,097	15,989	7,615	79	6,982	71,386
Germany—							
Pig-iron	251,712	318,751	248,834	(c) 105,388	}	(a)	(a)
Ferro-manganese	6,918	9,650	8,367	(c) 5,563			
Ferro-silicon, etc.	1,590	2,759	4,940	(c) 2,046			
Other ferro-alloys (b)	2,623	10,028	21,004	(c) 9,030			
Rough blooms, bars, in-							
gots, etc.	684,352	832,036	498,919	(c) 76,144			
Old and scrap	175,313	202,528	426,352	(c) 220,432			
Italy—							
Pig-iron	(a)	(a)	(a)	(a)	—	(a)	1
Ferro-alloys	1,404	84	1	(a)	—	7	267
Steel ingots, blooms and							
sheet bar	(a)	(a)	(a)	(a)	(a)	(a)	135
Netherlands—							
Pig-iron and ferro-alloys	64,183	57,739	—	}	(a)	114,182	160,165
Ingots, blooms and billets	—	156	5,432			6,668	7,873
Old and scrap	112,755	52,140	16,977			13,113	58,919
Norway—							
Pig-iron—electric	9,893	5,610	13,829	14,863	6,372	43,909	47,214
Ferro-chrome	6,165	2,219	6,167	5,226	623	4,492	11,487

(a) Information not available.

(b) May contain some ferro-silicon.

(c) January to July only.

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

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Norway—continued							
Ferro-manganese ..	14,564	1,550	299	1,225	162	13,178	33,730
Ferro-silicon ..	43,287	42,467	68,187	53,798	12,777	21,109	32,973
Ferro-silico-manganese ..	14,620	5,936	13,792	7,671	729	2,258	3,817
Other ferro-alloys ..	305	29	13	—	—	—	(a)
Steel ingots ..	29	—	—	12	4	177	(a)
Old and scrap ..	59	23	100	114	5,011	23,811	5,915
Portugal—							
Old and scrap ..	12,284	14,369	6,074	3,309	13,887	18,633	12,301
Spain—							
Pig-iron ..	24,315	9,312	2,625	2,928	2,872	2,866	5,569
Iron and steel ingots and blooms ..	417	736	956	75	28	44	27
Old and scrap ..	13	4,723	8	5	5	38	5
Sweden—							
Pig-iron ..	63,084	44,776	35,416	10,122	4,256	16,795	16,136
Sponge iron ..	4,854	8,009	7,376	6,130	203	2,916	2,510
Ferro-manganese ..	481	10	29	—	271	287	1,326
Spiegeleisen ..	129	22	—	—	—	107	114
Ferro-silicon ..	12,115	8,678	12,861	5,414	249	611	329
Ferro-silico-manganese ..	931	108	46	—	380	48	53
Ferro-chrome ..	5,216	878	15	—	177	1,952	3,649
Ferro-tungsten ..	32	4	5	—	5	288	1,024
Other ferro-alloys ..	57	41	50	—	9	234	289
Steel ingots ..	1,236	199	—	—	—	—	—
Steel blooms ..	197	525	374	98	—	98	148
Tool steel ..	958	718	440	97	133	420	426
Other special steel ..	2,304	808	431	543	1,833	4,737	5,077
Old, filings and scrap ..	178	172	100	32	530	2,279	3,714
Switzerland—							
Ferro-chrome and ferro-silicon ..	773	105	21	597	2	77	540
Old, filings and scrap ..	32,592	722	418	—	—	19,218	60,916
Algeria—							
Old, filings and scrap ..	7,613	1,935	13	63	9	114	16,201
Egypt (including re-exports)							
Scrap ..	—	—	—	—	—	1,029	45
Morocco (French)—							
Old and scrap ..	—	4	1,654	988	19	169	4,445
Cuba—							
Old and scrap ..	44,816	18,653	14,763	11,063	4,525	(a)	(a)
Mexico—							
Ferro-alloys ..	26	—	—	701	380	22	(a)
Ingots ..	1	—	—	6,992	2,549	15,116	(a)
United States—							
Pig-iron ..	516,547	98,792	128,812	144,070	81,221	85,445	35,895
Ferro-manganese and spiegeleisen ..	4,603	6,450	11,449	715	2,883	9,342	18,280
Ferro-chrome ..		4,982	2,107	475	1,313	2,241	2,751
Ferro-molybdenum ..		2,719	498	1,966	789	331	425
Ferro-vanadium ..		230	198	532	(a)	(a)	80
Ferro-silicon ..	(b)	4,334	25,860	2,217	(a)	(a)	992
Ferro-tungsten ..		119	461	1,051	(a)	(a)	37
Ferro-titanium ..		377	672	707	(a)	(a)	455
Other ferro-alloys ..	16,882	309	370	165	(a)	(a)	2,079
Steel ingots, slabs, blooms, billets and sheet bars ..	2,066,558	1,961,093	1,842,861	988,143	181,916	403,048	428,584

(a) Information not available.

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

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

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
<i>United States—continued</i>							
Old and scrap	793,160	121,910	47,300	80,874	70,767	121,679	148,675
Tin plate scrap and waste	9,252	3,306	106	3,264	(a)	(a)	21,218
<i>Argentina—</i>							
Ingots	1	—	—	—	—	—	(a)
<i>Brazil—</i>							
Pig-iron	34,395	6,039	17,674	4,175	16,567	22,650	(a)
Ferro-manganese	192	876	1,576	1,209	2,047	2	(a)
Ferro-nickel	434	49	—	53	111	(a)	(a)
Ferro-silicon	—	719	908	500	329	6	(a)
<i>Chile—</i>							
Ferro-manganese	—	—	—	21	5	1,841	(a)
Ingots	1,313	591	2,908	2,590	1,385	354	(a)
<i>Colombia—</i>							
Old and scrap	3,481	843	(a)	(a)	2,363	(a)	(a)
<i>China—</i>							
Pig-iron	} (a)	(a)	(a)	(a)	(a)	} 1,968	—
Old and scrap							
<i>Iran (b)—</i>							
Ingots, old and scrap	129	261	303	(a)	(a)	(a)	(a)
<i>Japan—</i>							
Ferro-chrome	64	246	56	30	(a)	(a)	(a)
Ferro-manganese	1,024	1,772	835	472	(a)	(a)	(a)
Ferro-silicon	299	925	(a)	(a)	(a)	(a)	(a)
<i>Korea—</i>							
Pig-iron (c)	135,820	130,900	264,752	264,131	31,495	(a)	7,449
<i>Manchuria—</i>							
Pig-iron (c)	544,266	703,708	535,408	301,167	17,715	(a)	(a)
<i>Netherlands East Indies—</i>							
Old and scrap	(d) 36,868	(a)	(a)	(a)	(a)	(a)	(a)
<i>Syria and Lebanon—</i>							
Old and scrap	—	—	6	(a)	4	205	(a)
<i>Turkey—</i>							
Ingots and blocks	(a)	(a)	(a)	3,366	621	4,906	27,025
Old and scrap	(a)	(a)	(a)	—	—	—	4,164

(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.

(d) January to October only

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

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Pig-iron—							
Charcoal	—	1,066	—	—	12	7	—
Forge and foundry ..	216,540	50,680	3,441	—	—	492	1,414
Acid	133,099	5,413	100,385	65,122	3,646	—	2,465
Basic	621,838	299,014	258,020	219,896	104,213	18,245	5,874
Other pig-iron ..	—	—	—	—	—	950	1,126
Spiegeleisen and ferro- manganese	2,428	2,705	3,888	84 (c)	25	150	1,685
Ferro-silicon	48,433	38,054	88,392	34,646	32,213	33,144	46,114
Ferro-chrome	26,897	16,890	28,254	11,274	2,999	3,683	20,815
Other ferro-alloys ..	21,107	9,309	14,501	9,569	11,168	7,706	9,581
Iron and steel ingots ..	561,543	480,442	498,095	297,862	36,417	74,809	111,767
Blooms, billets, slabs—							
Iron	400	—	806	—	—	5	71
Steel	1,362,295	884,209	845,753	693,533	79,694	299,569	201,224
Special steel—							
Ingots, blooms and billets	162,203	208,785	90,373	5,784	505	101	} 3,965
Bars and rods	67,834	95,422	97,772	12,824	412	76	
Old and scrap (b) ..	548,985	15,336	4,577	31,808	178,287	443,028	378,588
Eire—							
Pig-iron	939	150	2,749	2,301	1,597	3,264	2,345
Crude iron and steel ..	113	254	58	77	143	365	216
Old and scrap	205	147	15	430	89	949	82
Anglo-Egyptian Sudan—							
Pig-iron	(£247)	(£467)	99	6	31	40	(a)
Bars and billets	698	230	1,500	716	966	1,902	4,120
Mauritius—							
Pig-iron	3	14	82	60	43	21	10
Northern Rhodesia—							
Pig, ingots, etc.	1,234	1,003	584	308	393	676	(a)
Southern Rhodesia—							
Pig, ingots, etc.	1,305	1,628	4,361	4,843	3,947	2,859	1,710
Tool and drill steel ..	654	234	484	446	431	815	670
South West Africa—							
Pig-iron	—	10	—	10	—	(a)	(a)
Union of South Africa—							
Pig-iron and steel ingots	67,787	5,919	2,982	19,836	25,320	(a)	(a)
Ferro-silicon	543	455	51	—	1	(a)	(a)
Ferro-manganese	155	100	162	—	126	(a)	(a)
Other ferro-alloys	1,213	664	284	52	221	(a)	(a)
Tool and drill steel ..	4,661	815	445	640	1,384	(a)	(a)
British West Indies—							
Jamaica—							
Pig-iron	(£96)	—	(£1,750)	(£640)	—	—	—
Trinidad and Tobago—							
Pig-iron	1	1	3	3	1	} 1	(a)
Ingots, etc.	295	30	2	2	—		

(a) Information not available.

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

Year	Long tons
1941	3,400
1942	Nil
1943	Nil
1944	18,475
1945	2,000
1946	Nil
1947	41,505

(c) Excess of re-exports.

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

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES (Cont.)							
Canada—							
Pig-iron	4,222	1,371	6,355	7,604	6,776	10,826	7,940
Sponge iron	—	—	—	—	4	50	—
Ferro-alloys	7,392	4,410	16,535	873	1,998	2,571	2,611
Ingots, blooms and billets	102,493	176,678	152,508	29,987	36,256	4,645	7,889
Scrap	264,215	102,604	33,052	63,786	52,496	175,137	167,439
Newfoundland (b)—							
Pig-iron and ferro-alloys	(£2,248)	(c) (£2,730)	(£2,407)	292	244	359	70
Aden—							
Pig-iron	3	10	—	5	—	(a)	(a)
British India—							
Pig-iron	489	147	—	—	—	—	(f) 100
Ingots, blooms and billets	2,490	2	18,457	26,894	79,466	10,638	(f) 411
Tool steel	55	38	26	11	22	80	(f) 177
Ferro-alloys	3,633	3,676	1,061	2,871	4,955	1,893	(f) 918
Old and scrap (total imports)	2,204	1,712	2,489	3,364	3,096	8,449	(f) 17,568
Malaya (total imports)—							
Pig-iron	(a)	(a)	(a)	(a)	(a)	60	1,565
Scrap	(a)	(a)	(a)	(a)	(a)	12	52
Burma—							
Pig-iron	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Scrap	(a)	(a)	(a)	(a)	(a)	(d) 39	(a)
Ceylon—							
Pig-iron	160	205	748	648	10	549	1,210
Cyprus—							
Pig-iron	—	—	—	2	40	13	52
Old and scrap	—	—	—	—	(e) 114	445	300
Hong Kong (total imports)—							
Pig-iron	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Tool steel	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Old and scrap	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Palestine—							
Pig-iron	762	1,339	2,299	483	929	1,521	(a)
Old and scrap	178	26	296	13	143	(a)	(a)
Australia—							
Pig-iron	—	988	106	—	—	—	10
Ferro-alloys	2,768	944	1,319	945	786	329	1,225
Ingots and billets of high grade carbon alloy steels	4	9	20	—	—	6	8
Ingots, blooms, billets, etc.	97	81	68	26	20	73	27
Scrap	14	—	—	5	94	15	1,216
New Zealand—							
Pig-iron	13,359	9,259	7,481	12,277	5,853	7,510	7,974
Billets and blooms	14,143	11,607	13,089	2,940	139	774	2,908
Special steel	192	206	(a)	(a)	206	270	555

(a) Information not available.

(b) Year ended June 30 following for 1941 and ended March 31 subsequently.

(c) Nine months ended March 31, 1943.

(d) February to September only.

(e) Excess of re-exports.

(f) January to November only.

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

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES							
Austria—							
Pig-iron and scrap	(a)	(a)	(a)	(a)	(a)	(a)	3,787
Belgium-Luxemburg E.U.—							
Pig-iron	46,825	32,036	27,118	21,076	5,303	(a)	(a)
Ferro-alloys	—	—	—	—			
Crude iron ingots	85	241	582	83			
Steel ingots	10	478	308	15			
Steel blooms and billets	35	5,174	6,622	775	(a)	(a)	(a)
Special steel	1,460	2,017	1,154	702			
Old and scrap	1,009	1,490	4,276	828			
Bulgaria—							
Pig-iron	6,001	4,031	1,531	2,612	(a)	(a)	(a)
Old and scrap	14	7	16	21	(a)	(a)	(a)
Czechoslovakia—							
Pig-iron—							
Foundry						3,112	5,136
For refining or puddling						821	1,615
Other ferro-alloys						3,061	12,135
Ingots	(a)	(a)	(a)	(a)	(a)	8	—
Billets of cast iron						127	—
Billets, blooms, bars of puddled iron						10	62
Old and scrap						171	85,057
Denmark—							
Pig-iron	27,399	23,375	21,912	23,557	10,349	40,720	34,404
Ferro-alloys	3,206	3,326	3,808	3,908	247	5,029	9,477
Old and scrap	401	399	459	407	573	417	2,950
Finland (total imports)—							
Pig-iron	16,854	15,424	14,570	1,124	689	2,193	15,366
Billets	2,276	3,004	346	1,901	1,489	1,778	10,712
Ferro-manganese and spiegeleisen	444	858	1,908	888	471	904	1,962
Other ferro-alloys	465	493	204	44	453	159	155
Old and scrap	3,460	2,370	4,025	3,083	10,324	11,085	63,331
France—							
Pig-iron—hematite	—	212	4	371	177	16,236	7,416
do. other	719	16,588	1,627	205	2	13,377	2,671
Spiegeleisen	—	2,738	27,337	22,786	1,928	17,698	67
Ferro-manganese	—	39	356	1,109	1,987	11,930	11,905
Ferro-silicon	123	14	2,458	1,005	96	1,898	1,500
Ferro-chrome	1	4	286	355	507	134	832
Other ferro-alloys	2	36	95	71	4	3	515
Ingots	3	1,181	6,648	2,359	12	1,783	702
Blooms and billets, rolled or forged	3,244	6,749	7,438	1,240	78,114	16,622	45,218
Tool steel	131	438	571	251	37	531	1,172
Machine iron or steel	11,567	28,225	17,086	2,437	4,500	18,942	5,000
Other special steel	3,331	3,568	5,153	3,009	827	7,272	9,108
Old, filings and scrap	8,283	7,995	65,892	12,739	2,085	21,612	38,320
Germany—							
Pig-iron	207,183	205,571	237,356	(c) 73,712			
Ferro-manganese	9,136	13,159	654	(c) 252			
Ferro-silicon, etc.	58,134	48,068	68,225	(c) 35,454			
Other ferro-alloys (b)	14,425	8,109	6,609	(c) 1,411	(a)	(a)	(a)
Rough blooms, ingots, bars, etc.	84,248	74,692	370,301	(c) 58,933			
Old and scrap	1,084,653	915,315	309,723	(c) 32,113			
Greece—							
Pig-iron	(a)	(a)	(a)	(a)	63	1,779	(a)

(a) Information not available.

(b) May contain some ferro-silicon.

(c) January to July only.

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

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Italy—							
Pig-iron	170,000	140,000	60,000	(a)	(a)	(a)	150,742
Spiegeleisen	289	—	—	(a)	—	—	197
Ferro-chrome	1,383	1,522	70	(a)	—	116	80
Ferro-manganese	5,564	475	54	(a)	—	1,066	232
Ferro-molybdenum	5	84	38	(a)	—	75	27
Other ferro-alloys	15	29	11	(a)	—	—	35
Steel ingots	(a)	(a)	(a)	(a)	(a)	(a)	963
Steel blooms and sheet bar	(a)	(a)	(a)	(a)	(a)	(a)	1,763
Old and scrap	(a)	(a)	(a)	(a)	(a)	(a)	73,460
Netherlands—							
Pig-iron and ferro-alloys	633	1,380	2,589	}	(a)	{	1,649
Ingots, blooms, billets, etc.	331	3,078	20,241				737
Old and scrap	3,182	101	2,958				10,521
Norway—							
Pig-iron	1,649	4,756	3,548	6,093	2,129	1,520	1,338
Ferro-tungsten and ferro- vanadium	—	—	—	7	5	10	(a)
Other ferro-alloys	6	4	47	225	355	57	(a)
Steel ingots	—	—	—	—	—	180	(a)
Alloyed steel	731	1,312	652	494	381	707	(a)
Old and scrap	2,462	86	9,341	9,137	614	2,568	(a)
Poland—							
Pig-iron	(a)	(a)	(a)	(a)	—	822	(a)
Old and scrap	(a)	(a)	(a)	(a)	—	10,135	(a)
Portugal—							
Iron and steel ingots	3,802	1,290	2,805	4,316	4,185	9,408	16,389
Old and scrap	116	30	1,034	113	342	9,656	1,812
Spain—							
Pig-iron	60	672	—	—	288	127	1
Ferro-manganese	—	295	15	—	5	1	11
Other ferro-alloys	111	35	48	92	82	403	264
Special steel	55	1,277	1,271	617	473	839	802
Old and scrap	16,217	8,708	12,909	3,282	22,469	28,664	13,787
Sweden—							
Pig-iron	71,905	70,398	68,673	20,095	17,155	89,625	138,607
Spiegeleisen	—	—	—	—	1,000	6,257	607
Ferro-manganese	87	13	17	10	1,952	5,362	583
Ferro-chrome	396	111	35	25	16	725	1,116
Ferro-silicon and ferro- silico-manganese	291	283	145	126	380	1,591	737
Ferro-tungsten	1	—	—	—	—	20	—
Other ferro-alloys	77	165	178	77	67	375	559
Tool steel	4	1	—	—	—	19	17
Old, filings and scrap	17,223	20,263	10,839	5,521	19,130	69,797	64,881
Switzerland—							
Pig-iron, steel billets, blooms, etc.	39,819	63,038	24,423	38,308	41,828	101,037	109,365
Ferro-chrome and ferro- silicon	762	234	173	94	127	2,260	2,769
Old, filings and scrap	248	717	792	628	341	8,533	60,916
Algeria—							
Pig-iron	728	411	233	1,784	417	475	1,389
Spiegeleisen and ferro- alloys	629	714	—	171	304	99	76
Ingots, blooms and billets	54	65	—	56	4	170	224
Tool and special steel	625	214	8	1,233	54	31	181
Machine iron and steel	12	79	13	(a)	(a)	(a)	(a)
Old, filings and scrap	802	1,476	585	332	767	1,214	840

(a) Information not available.

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

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Egypt—							
Pig-iron and spiegeleisen	192	2,529	1,357	751	2,041	377	} (a)
Ferro-alloys	2	4	—	1	4	9	
Ingots, billets, etc. ..	—	—	4	91	25	20	
Special steel	248	137	295	1,450	635	1,534	
Scrap (total imports) ..	568	210	702	1,049	423	903	
Madagascar—							
Blooms, billets, etc. ..	334	(a)	89	(a)	(a)	(a)	(a)
Morocco (French)—							
Pig-iron	216	3	37	535	672	539	1,052
Ferro-alloys	93	219	—	42	41	42	46
Scrap, etc.	773	452	1,455	2,575	1,518	5,086	6,218
Morocco (Spanish)—							
Ingots	(a)	(a)	(a)	49	21	38	11
Tunis—							
Pig-iron	495	307	—	492	10	51	314
Steel ingots and billets ..	—	—	15	5,158	6,401	5,617	7,127
Tool steel	28	26	—	(a)	(a)	(a)	(a)
Old and scrap	75	3	1	21	1	2	2
Cuba (total imports)—							
Iron ingots	31	566	40	285	1,170	(a)	(a)
Mexico—							
Pig-iron	651	—	1	84	298	2	} (a)
Ferro-manganese	1,322	164	721	308	790	474	
Other ferro-alloys	439	779	1,108	816	1,059	732	
Steel ingots, blooms and billets	597	4	—	2,846	1,821	385	
Scrap	27,187	13,461	16,831	13,604	20,771	44,317	
United States—							
Pig-iron	3,281	(a)	1,290	5,159	19,137	12,578	29,129
Spiegeleisen	4,233	1,777	2,905	3,358	2,809	(a)	—
Ferro-chrome	123	520	418	1,004	5,740	(a)	9,535
Ferro-manganese	6,278	13,189	2,055	3,697	31,715	(a)	72,596
Ferro-silicon	16,304	13,683	9,416	20,219	20,595	(a)	12,199
Ferro-zirconium, etc. ..	—	—	—	—	(a)	(a)	45
Sponge iron	23	—	—	—	79	1,194	1,040
Bar-iron, slabs, blooms, etc.	(a)	1	3	1	22	361	223
Steel ingots, blooms, etc.	3,559	6,457	3,008	71	1,456	859	1,352
Scrap	64,085	82,240	128,023	97,048	41,313	26,989	32,312
Tin plate scrap	22,600	24,082	19,567	17,323	18,072	24,530	30,797
Argentina—							
Ferro-manganese	(a)	1,147	1,723	1,143	2,405	1,677	(a)
Ferro-silicon	(a)	1,296	1,284	1,087	1,077	1,955	(a)
Ingots	27,677	7,924	22,625	17,584	21,999	50,969	(a)
Old and scrap	283	1,280	884	1,046	702	1,468	(a)
Brazil (total imports)—							
Pig-iron, etc.	3,973	835	1,912	14,156	4,792	7,120	} (a)
Ferro-manganese	1,219	350	16	69	52	16	
Ferro-silicon	177	154	50	582	614	982	
Special steel	59	—	95	51	222	674	
Filings	53	—	5	160	61	44	
Chile—							
Ingots	1,867	1,452	980	1,773	3,251	970	} (a)
Ferro-chrome	9	64	23	16	11	22	
Ferro-manganese	466	1,106	96	222	496	201	
Ferro-silicon	84	179	308	53	194	47	
Old and scrap	72	576	543	103	5,207	1,391	
Colombia—							
Pig-iron	} 415	} 1	} 111	} (a)	{ 3,600	795	(a)
Scrap						691	(a)

(a) Information not available.

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

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Peru—							
Pig-iron	1,335	10	1,207	1,742	1,724	1,305	(a)
Ferro-alloys	29	25	102	15	36	42	(a)
Uruguay—							
Pig-iron	(a)	(a)	911	2,356	(a)	(a)	(a)
Ferro-manganese and silicon	(a)	(a)	180	380	(a)	(a)	(a)
Iran (b)—							
Ingots, etc., old and scrap	187	31	3	—	(a)	(a)	(a)
Japan—							
Pig-iron	772,000	864,000	980,000	653,000	54,131	1,925	7,630
Ferro-manganese	3,347	(a)	1,367	1,211	(a)	(a)	(a)
Ferro-silicon	3,840	(a)	4,677	3,750	(a)	(a)	(a)
Steel ingots	111,215	106,294	175,189	95,468	(a)	(a)	(a)
Old and scrap	200,000	38,000	25,000	73,000	984	(a)	124
Netherlands East Indies—							
Iron ingots	(c) 6,217	} (a)	(a)	(a)	(a)	(a)	(a)
Old and scrap	(a)						
Syria and Lebanon—							
Old and scrap	—	68	229	1,221	2,171	(a)	(a)
Turkey—							
Iron ingots and blocks ..	} (a)	} (a)	} (a)	1,133	—	—	210
Ferro-alloys				—	783	405	79
Steel ingots and blocks ..				1	1	2	41
Old and scrap				173	131	8	42

(a) Information not available.

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

(c) January to October only.

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

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Great Britain	7,968	5,396	4,167	3,969	2,866	2,763	3,177
Nigeria	—	1	—	—	—	—	71
Northern Rhodesia (h) ..	372	1,100	1,245	1,030	1,720	8,239	15,650
Southern Rhodesia	—	3	3	296	—	—	—
South West Africa	—	—	—	—	—	—	(k) 12,400
Tanganyika Territory	—	15	—	7	—	—	—
Union of South Africa	188	22	179	129	183	150	132
Canada (b)	205,432	228,635	198,241	135,974	154,908	158,034	144,346
Newfoundland	29,608	25,006	32,420	29,193	24,920	24,816	20,788
Burma	(e) 82,673	(f) 55,158	(a)	(a)	(a)	(a)	(a)
India	10	600	2	10	20	200	(a)
Australia	289,436	263,183	206,376	189,485	164,741	183,835	196,623
TOTAL (l)	616,000	579,000	443,000	360,000	349,400	378,000	381,000
FOREIGN COUNTRIES							
Austria	(a)	(a)	(a)	(a)	(a)	1,100	1,619
Bulgaria	4,300	(a)	(a)	(a)	(a)	(a)	(a)
Czechoslovakia (g)	2,800	2,300	2,300	2,100	(a)	(a)	(a)
Finland	37	137	471	229	87	153	185
France	3,814	5,682	5,447	4,134	4,775	8,165	7,470
Germany	98,000	103,000	98,000	100,000	(c)(d) 15,000	(d) 25,124	(d) 14,523
Greece (h)	680	2,260	1,130	600	700	600	(a)
Italy	44,000	32,000	19,500	4,000	2,300	13,100	20,000
Norway	—	31	112	121	10	26	139
Poland	(i)	(i)	(i)	(a)	(a)	(h) 10,743	(h) 12,559
Portugal	8	15	26	246	260	369	371
Roumania	(c) 10	(c) 20	(c) 300	(c) 300	3,310	3,173	3,440
Spain (smelter)	42,323	37,884	33,543	30,482	27,507	29,195	31,588
Sweden	9,873	9,344	11,201	15,896	19,780	20,844	20,529
U.S.S.R. (smelter) (c) ..	80,000	90,000	100,000	100,000	100,000	120,000	150,000
Yugoslavia (c)	30,000	30,000	30,000	30,000	20,000	40,000	50,000
Algeria	1,152	690	385	1,064	560	860	1,120
Belgian Congo	381	1,159	477	624	—	—	659
French Equatorial Africa ..	4,300	2,700	3,400	2,800	3,027	2,800	2,600
Morocco (French)	10,423	6,633	6,806	9,847	10,934	10,862	21,060
Morocco (Spanish) (j) ..	(a)	(a)	(a)	(a)	220	200	55
Tunis	12,480	7,630	2,328	6,053	6,301	8,518	12,224
Guatemala (h)	93	117	112	134	113	129	108
Mexico (b)	152,807	193,907	214,680	182,355	202,072	137,930	219,611
United States (b)	411,988	443,071	404,744	372,197	348,956	299,531	343,054
Argentina	26,098	26,317	17,424	18,700	(a)	(a)	(a)
Bolivia (exports)	15,407	12,284	11,207	8,904	9,358	8,301	11,131

(a) Information not available.

(b) Amount estimated as recoverable.

(c) Estimated.

(d) British Zone only.

(e) Year ended June 30 of that stated.

(f) Nine months ended March 31, 1942.

(g) American Bureau of Metal Statistics.

(h) Smelter.

(i) Included with Germany.

(j) Exports.

(k) Ore sorted from dumps. Not included in the totals.

(l) Some lead ore was produced in Hong Kong during the Japanese occupation. There has been no production since.

PRODUCTION OF LEAD ORE (Cont.)

Producing Country	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Chile	28	(a)	(a)	(a)	53	(a)	3,311
Ecuador	140	—	150	400	(a)	366	(a)
Peru	49,257	44,172	47,055	51,672	52,816	43,815	53,948
China (c)	1,300	1,200	600	(a)	(a)	(a)	(a)
French Indo-China	108	91	246	30	3	—	—
Japan	16,150	18,044	19,741	15,800	4,586	4,182	5,738
Korea (smelter)	(b) 10,355	(b) 8,102	18,062	15,973	(a)	(a)	(a)
Manchuria	5,620	6,158	11,777	(a)	(a)	(a)	(a)
Saudi Arabia	8	10	(a)	(a)	(a)	(a)	(a)
TOTAL	1,034,000	1,090,000	1,060,000	975,000	855,000	815,000	950,000
WORLD'S TOTAL	1,650,000	1,670,000	1,500,000	1,334,000	1,202,000	1,193,000	1,331,000

(a) Information not available.

(b) Incomplete.

c American Bureau of Metal Statistics.

METAL PRODUCTION OF LEAD

(Long tons)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom (d) ..	7,500	5,400	4,000	3,500	2,700	2,500	2,800
Northern Rhodesia ..	372	1,100	1,245	1,030	1,720	8,239	15,640
Canada	203,596	217,238	199,885	127,305	145,628	147,389	144,102
Burma	(e) 76,591	(f) 50,140	—	—	—	—	—
India	—	—	—	—	—	—	500
Australia (c)	235,463	257,284	189,635	154,547	155,852	149,734	188,022
TOTAL	524,000	531,000	396,000	287,000	305,900	307,900	*352,600
FOREIGN COUNTRIES							
Austria	5,280	4,904	4,815	4,646	(a)	4,403	3,735
Belgium	8,740	15,984	7,400	7,000	7,760	24,090	39,880
Czechoslovakia	(g)	(g)	(g)	(g)	(a)	(a)	(a)
France	22,853	12,265	12,232	1,893	2,721	31,494	(a)
Germany	149,000	125,000	156,000	127,000	(a)	(b) 16,044	(b) 23,971
Greece	680	2,260	1,130	600	700	600	(a)
Italy	36,408	28,320	17,400	2,190	2,785	13,789	17,266
Norway	38	—	—	—	51	(a)	(a)
Poland	16,483	16,053	15,261	15,583	(a)	10,743	12,559
Portugal	(a)	(a)	(a)	(a)	(a)	256	316
Roumania	208	145	277	257	3,310	3,173	3,440
Spain	42,323	37,884	33,543	30,482	27,507	29,195	31,588
Sweden	—	227	2,257	10,387	12,303	11,046	9,083
U.S.S.R. (estimated) ..	80,000	90,000	100,000	100,000	100,000	120,000	150,000
Yugoslavia	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Tunis	17,303	8,080	1,836	5,250	6,912	7,760	12,391
Guatemala	93	117	112	134	113	129	108
Mexico	148,779	189,941	209,097	175,454	197,902	165,889	190,489
United States (i)	486,324	490,046	419,179	414,882	395,953	301,874	393,703
Argentina	17,736	20,432	23,535	21,272	20,843	20,682	21,071
Peru	32,569	37,590	42,954	38,851	40,930	37,484	32,563
China	1,246	1,116	1,180	636	558	(a)	(a)
French Indo-China	3	2	16	50	—	—	—
Japan (j)	15,262	16,229	20,901	19,848	12,370	4,901	8,232
Korea	(h) 10,355	(h) 8,102	18,062	15,973	(a)	(a)	(a)
TOTAL	1,130,000	1,120,000	1,100,000	1,010,000	850,000	820,000	1,000,000
WORLD'S TOTAL	1,660,000	1,650,000	1,500,000	1,300,000	1,156,000	1,128,000	1,353,000

(a) Information not available.

(b) British zone only. Includes some secondary.

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

Year	Long tons
1941	21,987
1942	50,355
1943	9,006
1944	—

1945	—
1946	12,275
1947	29,438

(d) Estimated.

(e) Year ended June 30 of year stated.

(f) Nine months ended March 31, 1942.

(g) Included with Germany.

(h) Incomplete.

(i) Recovery of secondary lead was as follows:—

Year	Long tons
1941	354,836
1942	288,394
1943	305,441
1944	295,907

1945	324,142
1946	350,703
1947	457,116

(j) Figures for 1941 to 1944 refer to smelter production and for later years to refinery production. The comparable figures for refinery were as follows (long tons): 1941—30,102; 1942—26,494; 1943—31,998; 1944—37,447.

EXPORTS OF LEAD, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Ore	253	181	71	44	14	77	—
Pig-lead	304	134	333	428	6,217	814	435
Sheets and pipes	2,227	2,725	4,449	2,940	3,956	1,635	1,240
White lead	4,089	1,223	2,136	2,157	3,314	2,806	1,076
Litharge, red lead, etc.	5,755	2,863	2,117	2,396	6,436	5,239	2,675
Eire—							
Ore	111	94	72	31	263	155	100
Northern Rhodesia—							
Pig, bar and ingot	(a)	(a)	791	588	1,965	6,095	13,690
South West Africa—							
Copper-lead ore (<i>Pb content</i>) (<i>d</i>)	—	3,954	7,863	—	—	(a)	(a)
Pig-lead	—	698	—	—	—	(a)	(a)
Tanganyika Territory—							
Ore	—	20	—	10	—	5	7
Union of South Africa—							
Pig, ingot and sheets	77	23	6	6	18	(a)	(a)
Canada—							
Ore (<i>Pb content</i>)	5,908	5,294	5,121	8,482	6,995	5,363	6,005
Pig-lead, etc.	164,540	188,199	137,810	91,857	95,796	92,955	111,576
White lead	66	211	92	167	351	366	309
Newfoundland (<i>b</i>)—							
Concentrates	24,659	(c) 41,088	42,561	32,352	39,151	36,518	35,525
British India—							
Pig-lead	13	163	5	5	—	—	(a)
Malaya (including re-exports)—							
Pig-lead	(a)	(a)	(a)	(a)	(a)	67	2,435
Sheets and pipes	(a)	(a)	(a)	(a)	(a)	—	1
Burma—							
Pig-lead and refined lead	(a)	(a)	(a)	(a)	(a)	(e) 1,893	(a)
Hong Kong (including re-exports)—							
Pig-lead	(a)	(a)	(a)	(a)	(a)	63	61
Australia—							
Ores and concentrates (<i>Pb content</i>) (<i>f</i>)	17,233	26,788	19,319	22,577	33,544	8,965	18,554
Matte (<i>Pb content</i>)	—	—	—	15	—	150	2,001
Pig-lead	140,321	267,162	120,105	171,741	87,590	102,547	172,208
Sheets and pipes	3,149	933	270	665	216	264	1,248
White lead	834	1,456	1,067	396	191	166	229
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Pig-lead and scrap	2,053	7,905	5,263	5,397	} (a)	(a)	(a)
Sheets, bars, pipes and wire	79	3	47	30			
Red and white lead, etc.	203	7	67	37			

(a) Information not available.

(b) Year ended June 30 of year following for 1941 and ended March 31 subsequently.

(c) Nine months ended March 31, 1943.

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

(e) February to September only.

(f) Years ended June 30 of year stated.

EXPORTS OF LEAD, ETC. (Cont.)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947	
FOREIGN COUNTRIES (Cont.)								
Bulgaria—								
Ore and concentrates ..	1,161	10,772	20,694	9,173	11,183	9,599	11,135	
Pig-lead and scrap ..	62	61	42	—	(a)	(a)	(a)	
Czechoslovakia—								
Ore	}	(a)	(a)	(a)	(a)	}	617	
Pig-lead, ashes, scrap and alloys							5	69
Red and white lead, etc.							60	20
Denmark—								
Pig-lead, scrap and alloys	264	213	307	276	17	625	1,091	
France—								
Ore, matte and slag ..	4,282	1,529	116	201	—	1,047	1,615	
Pig-lead, including argen- tiferous and antimonial	2,256	2,352	3,068	15	51	38	896	
Scrap	86	1,349	4,400	1,922	—	429	—	
Sheets, etc.	178	373	63	—	164	289	383	
Red and white lead, etc.	102	81	1	—	73	152	322	
Germany—								
Ore	—	1	—	(b)	}	(a)	(a)	
Pig-lead, alloys and scrap	10,022	27,518	14,405	(b) 4,782				
Sheets, pipes, wire, etc.	2,565	1,997	1,866	(b) 835				
Red and white lead ..	5,311	4,320	3,193	(b) 1,131				
Italy—								
Ore	2,068	5,378	1,378	(a)	—	1,378	3,012	
Pig-lead, scrap and alloys	30	108	3,277	(a)	—	994	463	
Netherlands—								
Pig-lead and scrap ..	445	661	905	}	(a)	}	2,134	
Sheets and wire ..	—	—	10				103	168
Red and white lead ..	—	—	—				27	166
Norway—								
Ore	—	—	—	320	187	—	(a)	
Pig-lead, ashes and scrap	10	3	2	60	20	809	(a)	
Spain—								
Ore	—	—	1	1,028	6	31	—	
Pig-lead and scrap ..	8,960	9,413	10,968	7,512	1,446	1,374	5,247	
Sheets, wire, etc. ..	1,451	940	480	505	336	192	352	
Sweden—								
Ore	20,611	8,722	8,086	195	14,216	17,444	18,071	
Pig-lead and scrap ..	320	244	103	86	1,331	1,674	1,713	
Sheets and pipes ..	1	2	5	—	74	131	1	
Red and white lead, etc.	27	47	75	—	105	115	40	
Switzerland—								
Ores, etc.	10	—	—	—	—	14	17	
Pig-lead, scrap, etc. ..	—	—	—	—	—	—	11	
Sheets and pipes ..	1	—	—	—	—	—	154	
Algeria—								
Ore	2,712	1,516	218	832	695	185	2,473	
Pig-lead and scrap ..	113	505	32	10	329	536	1,147	
Red and white lead ..	13	—	—	3	2	—	130	
Belgian Congo—								
Ore	(a)	(a)	(a)	(a)	(a)	(a)	104	
French Equatorial Africa—								
Ore	—	11,761	3,644	—	6,909	1,292	11,749	
Morocco (French)—								
Ore, matte and slag ..	8,400	11,900	5,502	15,875	11,810	22,243	18,897	
Scrap, etc.	62	4	—	—	—	292	929	
Morocco (Spanish)—								
Ore	(a)	(a)	(a)	413	243	295	80	

(a) Information not available.

(b) April to December only.

EXPORTS OF LEAD, ETC. (Cont.)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Tunis (including re-exports)							
Ore	3	18	—	—	—	27	28
Pig-lead and bars ..	15,694	7,464	650	2,253	5,669	6,337	9,793
Mexico—							
Ores and concentrates ..	7,584	6,881	5,661	6,976	1,454	377	8,352
Pig-lead, refined	125,119	170,370	210,758	160,313	164,472	125,585	} 176,600
Base bullion	21,047	—	1,840	6,194	6,523	37	
Pig-lead, antimonial ..	1,605	50	1,733	890	15,951	1,919	
<i>Pb content (b)</i>	151,108	173,494	196,030	175,924	179,658	165,207		(a)
United States—							
Ore, mattes and base bullion	(a)	(a)	1,200	—	(a)	(a)	—
Pig-lead, bars, etc. ..	12,820	1,732	1,789	13,860	1,256	533	1,351
Sheets and pipes	1,473	844	1,556	1,003	(a)	(a)	1,680
Red and white lead, etc.	7,821	5,035	8,499	7,037	7,600	3,969	2,537
Argentina—							
Ore	15,846	1,919	2	—	8,366	—	(a)
Ingots, bars and sheets	246	133	56	18	36	1	(a)
Bolivia—							
Ore, etc. (<i>Pb content</i>) ..	15,407	12,284	11,207	8,904	9,358	8,301	11,131
Brazil—							
Ore	—	1	1	—	—	—	(a)
Chile—							
Ores and concentrates ..	101	—	—	—	—	—	(a)
Ecuador—							
Concentrates	3,000	600	200	650	(a)	(a)	(a)
Peru—							
Ore and concentrates (<i>Pb content</i>)	12,217	6,180	4,866	10,401	13,149	6,743	} 38,318
Pig-lead and scrap (<i>Pb content</i>)	41,739	36,543	20,738	56,463	38,452	35,590	
Japan—							
Sheets and plates	31	45	10	—	—	(a)	} 4,922
Tubes	110	18	49	(a)	(a)	(a)	

(a) Information not available.

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

IMPORTS OF LEAD, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Ore and concentrates ..	1,326	—	2,600	—	—	56	107
Pig-lead	139,344	235,502	226,519	224,889	165,360	153,952	194,406
Scrap, incl. alloys ..	(a)	(a)	(a)	(a)	(a)	2,675	(a)
Sheets and pipes ..	—	—	—	—	—	—	1,270
White lead	1	2	—	12	—	—	—
Litharge, red lead, etc. ..	8	3	—	—	—	—	—
Eire—							
Pig-lead	43	125	125	1,421	140	116	649
Sheets and pipes ..	226	23	83	160	384	166	770
Red and white lead, etc.	657	137	357	232	303	460	320
Gambia—							
Sheets, bars, etc. ..	—	—	1	—	—	—	—
Gold Coast—							
Bars, sheets, etc. ..	(a)	67	121	96	140	231	383
Kenya and Uganda—							
Bars and sheets	41	146	53	106	120	31	53
Mauritius—							
Pig-lead, bars and sheet	5	7	19	21	44	7	28
Nigeria—							
Bars and sheets	48	80	4	59	70	27	156
Northern Rhodesia—							
Sheets and foil	319	116	—	1	1	1	(a)
White lead	1	—	—	—	2	1	(a)
Sierra Leone—							
Bars and sheets	7	(a)	(a)	12	9	3	6
Southern Rhodesia—							
Pig-lead, bars, sheets and foil	167	265	612	215	79	135	159
Red and white lead, etc.	(a)	(a)	(a)	88	(a)	38	90
South West Africa—							
Bars, sheets and pipes ..	1	1	1	—	4	(a)	(a)
Red and white lead ..	1	1	—	—	2	(a)	(a)
Tanganyika Territory—							
Bars, sheets and pipes ..	—	1	4	1	2	8	6
Union of South Africa—							
Pig-lead and bars	4,593	4,569	3,353	4,148	7,763	6,230	(a)
Sheets and pipes	51	470	209	189	—	54	(a)
Foil	524	229	10	92	585	1	(a)
Litharge, red and white lead	2,322	1,610	2,338	1,881	1,968	1,139	(a)
British West Indies—							
Jamaica—							
Pig-lead, etc.	(£1,727)	(£527)	(£509)	(£185)	(£221)	(£228)	19
Trinidad and Tobago—							
Pig-lead	14	88	2	4	14	—	(a)
White lead	60	25	12	37	40	125	(a)
Canada—							
Pig-lead and scrap	236	10	10	12	24	34	8
Bars, sheets and pipes ..	34	3	4	6	13	7	7
White lead, red lead and litharge	1,333	936	1,316	1,737	1,661	1,126	349
Newfoundland (b)—							
Bars, pipes and sheets ..	(£1,038)	(c) (£1,558)	(£2,210)	79	87	106	103

(a) Information not available.

(b) Year ended June 30 of year following for 1941 and ended March 31 subsequently.

(c) Nine months ended March 31, 1943.

IMPORTS OF LEAD, ETC. (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES (Cont.)							
Aden—							
Ore	3	2	5	—	—	20	11
Red and white lead ..	2	—	—	—	—	—	—
British India—							
Ore	222	192	—	6	5	75	(b) 797
Pig-lead, bars, etc. ..	16,155	4,226	—	1	7,821	4,125	(b) 4,895
Sheets, pipes and tubes..	1,178	677	322	14	14,586	554	(b) 669
Tea-lead	111	87	86	—	—	—	(b) —
Lead (government stores)	503	—	284	1	420	944	(a)
Litharge, red and white lead, etc.	1,041	451	66	272	17	5	(b) 109
Malaya (total imports)—							
Pig-lead	(a)	(a)	(a)	(a)	(a)	232	3
Pipes and sheets ..	(a)	(a)	(a)	(a)	(a)	23	11
Ceylon—							
Pig-lead	50	18	1	15	—	25	11
Sheets and pipes ..	33	14	17	7	10	152	7
Tea-lead	1,339	2,180	3,717	2,423	1,784	54	—
Cyprus—							
Sheets and pipes ..	22	3	6	—	4	19	2
Hong Kong (total imports)—							
Pig-lead	(a)	(a)	(a)	(a)	(a)	103	68
Palestine—							
Pig-lead, sheets, pipes, etc.	185	126	106	280	84	145	(a)
Australia—							
Sheets and pipes ..	4	6	6	—	—	—	1
White lead and lead acetate	72	86	21	28	11	24	11
Fiji—							
Pig-lead and sheet ..	(a)	(a)	(a)	16	33	15	19
New Zealand—							
Pig-lead and bars ..	3,677	3,326	3,667	3,347	2,221	3,330	2,951
Sheets and pipes ..	396	57	53	216	376	84	159
White lead	867	902	966	649	522	444	102
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Ore	2,190	1,406	1,117	795	7,636	28,625	71,319
Pig-lead and scrap ..	915	8,164	50	118	—	—	—
Sheets, bars, pipes and wire	—	422	188	63	(a)	(a)	(a)
Red and white lead, etc. ..	24	5	2	—	—	—	—
Bulgaria—							
Pig-lead, scrap, etc. ..	60	76	112	1	—	—	—
Tubes, wire, etc. ..	8	14	19	2	(a)	(a)	(a)
Red and white lead, etc. ..	77	290	160	19	—	—	—
Czechoslovakia—							
Ore	—	—	—	—	—	—	3,620
Pig-lead, ashes, scrap and alloys	—	—	—	—	—	5,943	19,228
Sheets, plates, pipes, wire, etc.	(a)	(a)	(a)	(a)	(a)	—	79
Red and white lead, etc. ..	—	—	—	—	—	77	171
Denmark—							
Pig-lead and scrap ..	547	1,047	780	285	3,540	7,831	(a)
Sheets, pipes and wire ..	8	5	1	1	21	199	(a)
Red and white lead ..	483	461	526	304	137	983	(a)

(a) Information not available.

(b) January to November only.

IMPORTS OF LEAD, ETC. (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Finland (total imports)—							
Pig-lead and scrap ..	1,010	1,764	1,578	2,442	1,929	2,686	5,300
Sheets, pipes, wire, etc.	264	509	453	157	—	127	732
Red and white lead, etc.	400	448	247	340	173	168	777
France—							
Ore, matte and slag ..	21,528	8,056	—	69	20,626	42,088	69,975
Pig-lead, including argen-							
tiferous and antimonial	12,646	5,321	375	33	19,516	41,231	50,645
Scrap	118	195	5	2	76	1,110	2,166
Sheets, etc. .. .	1	46	83	5	—	114	255
Red and white lead, etc.	5	149	39	17	233	168	1,096
Germany—							
Ore	31,133	49,617	36,534	(b) 13,738	(a)	(a)	(a)
Pig-lead, scrap and alloys	34,368	40,669	30,136	(b) 16,804			
Sheets, pipes, wire, etc.	1,670	681	184	(b) 19			
Red and white lead, etc.	158	46	—	(b) 74			
Iceland—							
Pig-lead	20	39	88	54	80	18	(a)
Red and white lead ..	58	18	45	20	41	23	(a)
Italy—							
Ore	1,005	2,852	—	(a)	—	—	—
Pig-lead, scrap and alloys	11,673	16,417	10,964	(a)	246	276	7,411
Sheets, pipes, wire and							
alloys	250	142	(a)	(a)	(a)	(a)	(a)
Netherlands—							
Ore	—	—	—	(a)	(a)	58	1,656
Pig-lead and scrap ..	1,139	657	1,497			21,057	26,150
Sheets and wire .. .	10	—	8			46	1,238
Red and white lead ..	992	329	190			1,292	2,944
Norway—							
Pig-lead	1,612	914	443	217	1,634	5,152	4,101
Bars and sheets .. .	151	176	65	81	230	677	1,156
Tubes, wire, etc. .. .	7	92	55	49	129	344	
Red and white lead ..	345	188	28	20	365	200	570
Portugal—							
Pig-lead, alloys, etc. ..	1,346	418	1,824	1,409	326	2,816	2,404
Red and white lead, etc.	580	427	484	573	497	662	596
Spain—							
Ore	—	49	61	217	315	295	206
Pig-lead and scrap ..	—	16	19	2	84	74	68
Sweden—							
Pig-lead and scrap ..	1,923	6,814	5,182	827	1,503	18,686	18,118
Sheets and pipes .. .	859	253	94	186	95	1,311	2,066
Red and white lead ..	1,991	1,641	1,180	546	1,677	2,102	2,349
Switzerland—							
Ores, etc.	8	24	8	7	6	26	1
Pig-lead, scrap, etc. ..	5,832	6,551	4,526	411	1,158	21,015	13,681
Sheets, pipes, wire, etc.	254	225	114	34	142	640	650
Red and white lead ..	256	202	85	32	50	492	180
Algeria—							
Ore, matte and slags ..	23	32	60	104	81	22	228
Pig-lead, bars, sheets, etc.	3,332	2,995	350	2,812	1,643	3,209	4,471
Red and white lead, etc.	91	115	74	81	157	105	128
Egypt—							
Pig-lead and scrap ..	379	881	99	81	54	100	(a)
Sheets, pipes, wire, etc.	144	370	20	43	83	151	(a)
Red and white lead ..	479	892	136	295	811	514	(a)
Madagascar—							
Pig-lead, bars and sheets	8	(a)	20	(a)	(a)	(a)	(a)
Red and white lead ..	13	(a)	6				

(a) Information not available.

(b) January to July only.

IMPORTS OF LEAD, ETC. (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Morocco (French)—							
Pig-lead, sheets and wire	22	113	83	128	161	121	205
Mozambique—							
Bars, sheets and wire ..	19	25	9	24	11	(a)	(a)
Tunis—							
Ore, matte and slag ..	7,070	3,244	—	839	156	1,401	1,566
Pig-lead, bars and scrap	—	54	—	403	26	163	30
Sheets, etc.	7	83	10	14	9	74	—
Red and white lead, etc.	1	2	3	—	—	—	—
Cuba (total imports)—							
Pig-lead	221	319	266	37	379	(a)	(a)
Sheets, pipes and wire ..	78	20	45	36	39	(a)	(a)
Mexico—							
Pig-lead	31	34	33	20	31	41	(a)
Sheets and pipes ..	14	21	18	147	27	37	(a)
Red and white lead ..	366	139	93	198	158	182	(a)
United States—							
Ore, matte and flue dust (Pb content)	75,326	78,655	75,345	94,012	63,940	25,894	42,540
Bullion and base bullion (Pb content)	23,266	43,838	4,083	66	18	72	1,584
Pig-lead, bars and scrap (Pb content)	292,260	343,883	208,277	202,406	205,495	92,219	155,784
Sheets, pipes, wire, etc.	42	18	22	35	12	21	60
Red and white lead, etc.	24	6	1	1	(a)	(a)	349
Argentina—							
Ore	6,085	6,766	7,413	6,849	6,069	4,742	} (a)
Pig-lead	2	—	—	3	1	2	
Sheets and plates ..	24	5	—	—	7	—	
Tubes and wire ..	10	—	—	—	—	1	
Red and white lead ..	2,112	1,015	566	189	536	539	
Brazil (total imports)—							
Pig-lead	16,957	69	14,031	10,596	14,321	33,466	(a)
Sheets and pipes ..	1,446	18	1	18	68	325	(a)
Red and white lead ..	788	442	107	943	505	366	(a)
Chile—							
Pig-lead	1,878	3,816	717	642	790	1,928	(a)
Bars and sheets ..	352	368	250	437	176	250	(a)
Red and white lead ..	278	474	180	100	114	122	(a)
Colombia—							
Ingots, bars, tubes and alloys	465	374	155	196	548	(a)	(a)
Red and white lead ..	167	21	129	47	98	(a)	(a)
Peru—							
Pig-lead, sheets, etc. ..	41	4	25	2	14	22	(a)
Red and white lead ..	76	35	55	58	76	63	(a)
Uruguay—							
Pig-lead	(a)	(a)	353	938	(a)	(a)	(a)
Red and white lead, etc.	(a)	(a)	124	166	(a)	(a)	(a)
Venezuela—							
Pig-lead	16	56	32	(a)	(a)	(a)	(a)
Red and white lead ..	90	65	78	(a)	(a)	(a)	(a)
China—							
Pig-lead	} (a)	(a)	(a)	(a)	(a)	} 593	1,011
Scrap							
Red and white lead, etc.							
Iran (total imports) (b)—							
Ingots, sheets and wire	40	50	12	(a)	(a)	(a)	(a)

(a) Information not available.

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

IMPORTS OF LEAD, ETC. (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Japan—							
Ore	(a)	(a)	(a)	(a)	(a)	(a)	503
Pig-lead	77,298	709	3,130	2,545	179	(a)	(a)
Syria and Lebanon—							
Ingots and sheets ..	10	6	52	13	119	215	} (a)
Pipes	—	—	—	12	15	51	
Red and white lead ..	1	31	56	45	72	180	
Turkey—							
Pig-lead, scrap and alloys	(a)	(a)	(a)	27	899	1,350	886
Tubes, wire and alloys ..	(a)	(a)	(a)	(a)	51	47	136
Red and white lead ..	(a)	(a)	(a)	142	561	295	214

(a) Information not available.

MAGNESITE
PRODUCTION OF MAGNESITE
(Long tons)

Producing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Kenya—							
Crude	—	—	—	44	14	60	40
Southern Rhodesia—							
Crude	2,230	2,746	5,342	5,044	4,211	3,763	5,238
Union of South Africa—							
Crude	14,063	16,421	12,494	5,347	6,967	6,893	8,282
Canada—							
Calcined Magnesitic Dolomite	£186,751	(c)£238,062	(c)£283,159	(c)£256,018	(c)£287,325	(c)£289,055	(c) £289,723
Cyprus (exports)—							
Crude	—	—	—	142	283	3	30
India—							
Crude	40,710	47,780	49,070	41,936	28,338	44,677	(a)
Australia—							
Crude	27,699	34,941	64,860	31,705	23,082	22,032	36,811
New Zealand—							
Crude	—	—	171	103	111	374	362
FOREIGN COUNTRIES							
Austria—							
Crude	423,835	455,709	451,499	443,810	(a)	90,197	218,254
Caustic (b)	59,756	34,473	33,351	28,571	(a)	23,668	30,309
Dead-burnt (b)	113,570	120,773	133,468	132,561	(a)	24,247	81,279
Bricks (b)	64,874	71,446	74,984	81,392	(a)	26,727	64,745
Germany (Prussia)—							
Crude	28,263	25,006	(a)	(a)	(a)	(a)	(a)
Greece—							
Crude	4,580	2,850	670	930	1,630	4,500	(a)
Calcined (b)	900	(a)	—	130	620	1,330	(a)
Italy—							
Crude	4,515	5,295	(d) 2,831	(a)	(a)	(a)	(a)
Norway—							
Crude	1,809	2,427	2,025	1,529	1,717	1,155	1,683
Calcined (b)	549	783	1,114	500	582	458	647
Bricks (b)	325	256	244	279	405	331	209
Spain	201	2,031	3,567	5,185	7,500	10,594	5,407
Egypt	—	—	10	49	49	—	—
Cuba—							
Crude	279	274	2,631	41	(a)	(a)	(a)
Mexico (exports)—							
Crude and calcined	—	—	1	—	—	4,545	(a)
United States—							
Crude	334,642	444,079	673,957	501,295	300,412	289,860	335,708
Caustic (sales) (b)	26,987	36,401	171,243	124,323	38,634	40,338	29,508
Dead-burnt (sales) (b)	179,894	244,340	269,091	248,651	227,676	218,595	281,179
Venezuela—							
Crude	(a)	(a)	580	689	(a)	(a)	(a)
Calcined	(a)	(a)	249	(a)	(a)	(a)	(a)

(a) Information not available.

(b) Derived from crude shown, and *not* additional. The United States does, however, include some from other sources, e.g., sea-water, brucite, dolomite, etc.

(c) Including brucite.

(d) January to June only.

PRODUCTION OF MAGNESITE (Cont.)

Producing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Korea—							
Crude	(b) 31,258	(b) 33,038	(b) 29,599	(b) 38,524	(a)	(a)	(a)
Turkey—							
Crude	1,870	113	135	784	758	} 98	846
Calcined	(a)	(a)	(a)	(a)	136		

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

(a) Information not available.

(b) Exports.

EXPORTS OF MAGNESITE, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Magnesium and alloys ..	41	29	—	8	7	371	140
Magnesium compounds	5,347	4,329	2,758	2,916	3,999	9,663	8,827
Southern Rhodesia—							
Crude and calcined ..	(a)	2,606	4,730	4,072	3,851	4,444	4,973
Union of South Africa—							
Crude and calcined ..	7,696	5,910	3,085	—	—	—	54
Canada—							
Calcined and dead-burnt	1,378	480	354	6,956	—	—	—
British India—							
Magnesite	12,531	12,595	13,005	10,471	3,141	6,662	(d) 16,192
Chloride	923	788	705	(a)	151	1,921	(d) 2,445
Cyprus—							
Crude	—	—	2	141	283	3	30
FOREIGN COUNTRIES							
Austria—							
Crude	} (a)	(a)	(a)	(a)	(a)	(a)	} 38,282
Caustic							
Dead-burnt							
Bricks							
Bricks							(a)
Belgium-Luxemburg E.U.—							
Crude	30	—	—	1	} (a)	(a)	(a)
Calcined	—	—	25	—			
Magnesium	13	—	—	—			
Carbonate	—	—	—	—			
Chloride	—	20	—	—			
Sulphate	3	5	58	—			
Czechoslovakia—							
Crude	} (a)	(a)	(a)	(a)	(a)	} 232	—
Calcined							
Bricks							
Chloride, oxide and sulphate							
Chloride, oxide and sulphate						8,086	29,894
Chloride, oxide and sulphate						2,843	8,625
Chloride, oxide and sulphate						—	10
France—							
Magnesium	(a)	(a)	1,143	341	—	10	6
Magnesium compounds	1,965	685	262	411	558	5,110	10,044
Germany—							
Calcined	24,280	23,164	28,778	(b) 12,150	} (a)	(a)	(a)
Carbonate, oxide, etc. ..	554	369	730	(b) 449			
Chloride	10,531	11,688	10,184	(b) 3,552			
Sulphate	7,712	15,966	34,012	(b) 16,287			
Greece—							
Crude	} (a)	(a)	(a)	(a)	} —	—	(a)
Caustic							
Dead-burnt							
Caustic							(a)
Dead-burnt							(a)
Italy—							
Magnesium metal ..	209	641	184	(a)	(a)	—	1,700
Crude	15	33	(c) 40	(a)	(a)	(a)	(a)
Netherlands—							
Calcined	329	—	15	(a)	(a)	2,229	7,334
Norway—							
Crude	15	76	30	—	25	9	(a)
Bricks	208	292	248	197	412	274	(a)

(a) Information not available.

(b) January to July only.

(c) January to June only.

(d) January to November only.

EXPORTS OF MAGNESITE, ETC. (Cont.)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Sweden—							
Crude and calcined ..	—	—	—	—	—	45	72
Cuba—							
Crude	278	274	2,631	41	—	—	—
Mexico—							
Crude and calcined ..	—	—	1	—	—	4,545	(a)
United States—							
Magnesium metal ..	1,373	3,612	31,813	18,751	463	185	281
Oxide and manufactures	1,924	1,165	7,598	1,131	8,153	15,556	754
Bricks, etc.	14,412	13,821	12,943	11,153	8,256	11,832	11,538
Peru—							
Sulphate	294	386	239	639	694	427	(a)
Korea—							
Crude and calcined ..	31,258	33,038	29,599	38,524	(a)	(a)	(a)
Turkey—							
Calcined	(a)	(a)	(a)	26	—	—	—

(a) Information not available.

IMPORTS OF MAGNESITE, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES.							
United Kingdom—							
Crude and calcined ..	80,267	28,558	55,927	22,514	3,189	1,427	28,800
Magnesium and alloys ..	1,032	3,098	33,585	20,357	1,084	—	(a)
Chloride	772	990	401	552	109	898	3,368
Other salts	10	1	1	—	—	6	8
Eire—							
Magnesium salts ..	358	320	249	275	221	447	400
Union of South Africa—							
Carbonate and sulphate	1,690	2,690	5,333	5,601	4,669	3,824	(a)
Chloride	60	36	67	34	16	234	(a)
Canada—							
Crude and calcined ..	4,289	5,783	7,686	(b) 6,956	(b) 4,007	(b) 4,429	(b) 8,338
Carbonate	508	258	384	286	258	331	488
Oxide	480	622	848	1,230	330	616	378
Sulphate	2,436	1,507	2,917	2,396	2,272	3,092	2,596
Bricks	(£246,149)	(£264,048)	(£249,832)	(£161,456)	(£68,571)	(£102,200)	(£115,395)
British India—							
Chloride	8	5	—	—	—	—	(d) 2
Sulphate	39	20	17	48	21	27	(d) 57
Other salts	1,178	535	233	433	205	781	(d) 293
Burma—							
Chloride	(a)	(a)	(a)	(a)	(a)	(c) 25	(a)
Sulphate	(a)	(a)	(a)	(a)	(a)	(c) 16	(a)
Palestine—							
Sulphate	179	127	—	—	—	184	(a)
Australia—							
Oxide	60	37	36	141	33	33	22
Carbonate	188	167	146	159	120	149	152
Chloride	199	61	38	4	31	21	139
Sulphate	169	302	227	187	183	300	905
New Zealand—							
Sulphate	411	449	496	336	229	369	414
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Crude	151	20	178	5	}	(a)	(a)
Calcined	1,864	790	1,691	628			
Magnesium	1	1	—	1			
Carbonate	19	21	63	33			
Chloride	408	263	404	125			
Sulphate	996	2,680	1,120	311			
Bulgaria—							
Crude	154	163	82	32	(a)	(a)	(a)
Sulphate	78	201	158	30	(a)	(a)	(a)
Czechoslovakia—							
Calcined	}	(a)	(a)	(a)	(a)	437	1,232
Bricks						311	6,601
Chloride						255	1,538
Oxide, impure						(a)	178
Sulphate						65	1,587
Denmark—							
Crude	581	435	589	824	458	1,134	}
Chloride	629	718	418	734	291	972	
Oxide	134	65	79	59	6	172	
Sulphate	308	341	312	264	149	379	

(a) Information not available.

(b) Calcined and dead-burnt only.

(c) February to September only.

(d) January to November only.

IMPORTS OF MAGNESITE, ETC. (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Finland (total imports)—							
Magnesite	702	203	592	452	—	701	695
Calcined	33	13	8	6	3	27	23
Carbonate	70	26	95	89	19	46	96
Chloride	356	349	193	177	30	317	539
Sulphate	91	27	66	65	—	36	109
France—							
Crude	4,895	895	5,436	2,786	482	2,018	2,987
Calcined	3,825	6,713	7,707	3,040	1,459	1,989	13,269
Magnesium	—	59	110	67	2	55	34
Carbonate	78	59	63	14	5	263	578
Chloride	61	397	490	101	1	1	46
Sulphate	479	946	6,678	80	69	474	—
Germany—							
Crude	11,892	12,599	17,129	(b) 839	} (a)	(a)	(a)
Caustic	6,677	3,030	5,516	(b) 1,996			
Dead-burnt	35,113	37,455	39,020	(b) 23,706			
Hungary—							
Crude and calcined ..	(a)	(a)	(a)	(a)	(a)	4,425	13,458
Italy—							
Magnesium metal ..	691	33	62	(a)	(a)	—	475
Crude	119	1,298	(c) 1,874	—	(a)	(a)	(a)
Caustic	} (a)	(a)	(a)	(a)	(a)	(a)	(a)
Carbonate							
Chloride							
Netherlands—							
Crude	312	543	616	} (a)	(a)	} 302	1,183
Calcined	1,180	913	3,523				
Sulphate	3,312	7,860	11,119				
Norway—							
Calcined	581	325	1,010	452	327	568	(a)
Bricks	—	39	21	18	—	—	(a)
Chloride	592	553	419	210	67	809	(a)
Portugal—							
Crude and calcined ..	(a)	(a)	(a)	(a)	79	104	89
Carbonate	54	227	93	84	46	75	68
Chloride	4	24	20	—	29	27	32
Oxide	4	8	11	1	6	5	12
Sulphate	309	557	319	326	700	1,018	443
Sweden—							
Crude and calcined ..	1,403	1,349	1,439	1,654	1,133	3,174	2,727
Bricks	4,084	7,003	5,255	5,052	1,805	8,260	7,508
Chloride	1,431	1,030	1,452	867	302	1,359	1,493
Switzerland—							
Calcined	727	581	630	1,152	167	—	—
Algeria—							
Calcined	—	—	3	1	14	2	2
Belgian Congo—							
Calcined	(a)	(a)	—	121	85	(a)	(a)
Sulphate	(a)	(a)	590	403	585	(a)	(a)
Egypt—							
Sulphate	300	77	21	14	148	888	(a)
Cuba (total imports)—							
Calcined	6	73	11	45	201	(a)	(a)
Carbonate	95	18	58	129	97	(a)	(a)
Mexico—							
Crude	74	47	44	39	14	15	(a)
Calcined	6	34	23	12	20	23	(a)
Sulphate	414	205	348	233	210	164	(a)

(a) Information not available.

(b) January to July only.

(c) January to June only.

IMPORTS OF MAGNESITE, ETC. (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
United States—							
Crude	—	—	—	927	—	1	(a)
Calcined	772	516	259	499	397	394	470
Dead-burnt	32,849	6,900	8,244	5,604	4,916	1,672	1,500
Oxide	11	14	—	27	(a)	(a)	—
Carbonate, precipitated	988	572	109	135	(a)	(a)	122
Chloride	25	166	—	—	(a)	(a)	2
Sulphate	1	—	21	20	(a)	(a)	—
Argentina—							
Carbonate	178	222	147	77	170	149	} (a)
Chloride	65	105	22	—	—	102	
Oxide	8	6	4	1	6	8	
Sulphate and chlorate ..	25	20	8	—	10	20	
Brazil (total imports)—							
Oxide	14	26	19	91	191	38	(a)
Sulphate	69	27	262	267	292	198	(a)
Chile—							
Crude	54	20	28	11	95	16	} (a)
Calcined	9	1,532	—	756	1,065	1,005	
Chloride	6	2	6	2	4	8	
Carbonate, oxide, etc.	9	9	4	2	4	7	
Sulphate	64	2	206	1,105	825	500	
Colombia—							
Calcined	10	39	28	13	24	} (a)	(a)
Carbonate	12	22	15	(a)	17		
Chloride	1	1	1	(a)	1		
Sulphate	207	94	192	144	170		
Peru—							
Oxide and carbonate ..	1,040	18	557	21	678	412	(a)
Salts	26	7	46	48	15	30	(a)
Venezuela—							
Sulphate	170	84	160	—	(a)	(a)	(a)
Syria and Lebanon—							
Ground and calcined ..	—	3	—	—	9	—	} (a)
Chloride	—	—	—	8	15	10	
Oxide	—	—	23	2	10	4	
Sulphate	19	11	19	6	71	194	
Turkey—							
Calcined	} (a)	(a)	(a)	{	5	—	—
Carbonate, Chloride, etc.					94	31	26
Oxide					14	5	11

(a) Information not available.

MANGANESE

PRODUCTION OF MANGANESE ORE

(Long tons)

Producing Country	Estimated Manganese Content													
	1941	1942	1943	1944	1945	1946	1947	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES														
Great Britain (g) ..	1,186	10,432	20,333	17,607	11,299	—	—	360	3,130	6,100	5,300	3,400	—	—
Gold Coast (exports) ..	428,736	483,573	423,393	504,458	701,750	765,300	588,919	223,000	252,000	220,000	262,000	365,000	398,000	306,000
Northern Rhodesia ..	4,700	6,113	4,711	5,046	1,934	1,398	—	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Union of South Africa ..	438,854	388,217	215,662	105,196	112,737	234,141	283,662	190,000	168,000	96,000	45,000	47,000	102,000	124,000
Canada (sales) ..	(a)	388	43	(c)	—	—	—	—	(a)	(a)	—	—	—	—
Burma ..	(a)	(c)	(c)	(c)	(c)	(a)	(a)	—	(a)	(a)	(a)	(a)	(a)	(a)
Ir-dia ..	785,941	757,269	595,347	370,980	210,583	252,916	393,175	388,000	379,000	292,000	182,000	103,000	124,000	193,000
Malaya ..	(d)	(c)	(c)	(c)	(c)	—	—	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Australia ..	13,607	10,257	6,250	2,500	2,500	1,385	1,776	(a)	(a)	(a)	(a)	(a)	(a)	(a)
New Zealand ..	752	321	510	1,970	984	402	500	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Papua ..	402	346	359	173	170	44	116	410	180	280	—	—	(a)	(a)
TOTAL ..	1,680,000	1,660,000	1,269,000	1,009,000	1,042,000	1,256,000	1,268,000	—	—	—	—	—	—	—
FOREIGN COUNTRIES														
Bulgaria ..	6,965	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
France ..	(a)	31,380	33,050	(f)	1,963	1,737	531	(a)	(a)	260	474	428	253	79
Hungary (e) ..	25,960	59,213	44,400	20,720	6,500	16,670	110,536	10,400	12,600	13,200	8,300	2,600	6,700	(a)
Italy ..	58,829	6,220	12,412	23,500	7,794	7,794	26,392	19,000	15,000	10,600	5,800	800	2,000	(a)
Portugal ..	3,261	29,000	37,600	9,065	7,479	5,831	2,405	1,500	2,600	5,100	3,700	3,100	2,450	(a)
Roumania ..	15,000	20,932	25,737	(a)	(a)	(a)	(a)	4,500	9,000	13,500	3,700	3,100	2,450	(a)
Spain ..	9,811	23,859	26,281	29,946	24,495	29,125	22,074	4,500	9,000	13,500	3,700	3,100	2,450	(a)
Sweden ..	13,708	(a)	(a)	23,893	17,751	12,395	10,528	2,600	3,600	5,700	5,600	4,900	2,200	(a)
U.S.S.R. (estimated) ..	2,800,000	(a)	(a)	2,000,000	2,000,000	2,500,000	2,800,000	1,280,000	3,600	2,000	1,000	1,000	800	(a)
Angola ..	—	3,937	1,968	1,968	690	8,384	29	15,000	14,200	8,700	1,400	—	—	300
Belgian Congo ..	30,050	28,527	17,137	2,936	—	—	—	600	2,400	2,100	10	—	8	9
Egypt (b) ..	2,141	8,040	6,967	30	46	26	—	—	—	—	—	—	—	—

(a) Information not available.

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

(c) Average annual production during Japanese occupation.

(d) January to September only.

(e) U.S. Bureau of Mines.

(f) June to December only.

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

PRODUCTION OF MANGANESE ORE (Cont.)

Producing Country	Estimated Manganese Content							1947	1946	1945	1944	1943	1942	1941
	1941	1942	1943	1944	1945	1946	1947							
FOREIGN COUNTRIES (Cont.)														
Morocco (French) ..	50,425	43,580	48,142	27,112	43,960	54,377	107,688	19,400	18,400	20,400	15,500	16,900	23,500	48,600
Tunisia ..	(a)	120	—	300	—	—	(a)	(a)	40	—	100	—	—	—
Cuba (h) ..	247,415	245,318	306,299	253,792	195,112	128,048	(a)	111,000	110,000	138,000	114,000	88,000	58,000	(a)
Mexico ..	2,200	26,000	53,000	67,000	42,000	26,000	33,000	964	11,312	22,584	28,611	18,249	11,163	13,958
United States (b) ..	78,388	170,311	183,190	221,086	162,803	128,246	117,524	39,700	90,800	97,700	117,500	92,300	75,000	68,000
Argentina ..	1,455	1,402	1,619	3,105	4,205	(a)	(a)	550	550	640	(a)	(a)	(a)	(a)
Bolivia (c) ..	—	590	16	—	—	—	(a)	—	268	8	—	—	—	—
Brazil ..	442,569	c 301,404	c 271,200	c 145,645	243,937	169,543	444,376	210,000	136,000	122,000	66,000	110,000	76,000	200,000
Chile ..	—	70,167	104,420	71,525	40,940	20,125	20,015	—	31,700	46,900	33,100	18,800	9,500	10,400
French Indo-China ..	1,020	1,420	(d) 1,400	(d) 7,000	—	—	(a)	450	630	610	3,400	—	—	—
Japan (f) ..	192,458	250,238	337,469	394,351	157,122	27,951	(a)	(a)	88,000	110,000	129,000	(a)	(a)	(a)
Netherlands East Indies ..	13,656	(g) 7,000	(g) 7,000	(g) 7,000	(g) 7,000	(a)	(a)	(a)	3,500	3,500	3,500	3,500	(a)	(a)
Philippine Islands ..	(e) 49,771	(a)	(a)	(a)	(a)	(a)	(a)	24,000	(a)	(a)	(a)	(a)	(a)	(a)
Portuguese India ..	7,983	(a)	(a)	(a)	(a)	(a)	(a)	3,500	(a)	(a)	(a)	(a)	(a)	(a)
Turkey ..	1,539	3,261	821	1,939	5,015	1,675	4,560	600	1,400	360	800	1,800	600	1,600
TOTAL ..	4,060,000	3,200,000	2,500,000	2,300,000	2,970,000	3,140,000	3,610,000							
WORLD'S TOTAL ..	5,700,000	4,900,000	3,800,000	3,300,000	4,010,000	4,400,000	4,880,000							

Manganese ore is also produced in Greece, Yugoslavia, Spanish Morocco and China.

(a) Information not available.

(b) Shipments. Excluding the following quantities of ore containing 10 to 35% Mn, which are included with iron ore (long tons):—1941—457,288; 1942—237,199; 1943—418,627; 1944—265,162; 1945—102,078; 1946—89,723; 1947—114,788.

(c) Exports.

(d) Estimated.

(e) January to September only.

(f) Years ended March 31 of that following.

(g) Average annual production during Japanese occupation.

(h) Concentrates.

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

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Metal	49	73	40	27	33	200	191
Ferro-manganese and spiegeleisen	17,305	3,617	797	150	31,729	58,636	9,069
Gold Coast—							
Ore	428,736	483,573	423,393	504,458	701,750	765,300	588,919
Union of South Africa—							
Ore	303,799	179,751	76,160	9,948	132,706	316,351	332,577
Canada—							
Spiegeleisen	6,978	2,100	2,904	3,356	3,004	792	747
Ferro-manganese (a)	(a)	(a)	(a)	(a)	(a)	29,005	65,554
British India—							
Ore (b)	558,455	599,254	712,424	151,621	171,276	434,600	(f) 469,887
Ferruginous manganese ore	—	—	2,500	—	—	—	(a)
Ferro-manganese	1	1	4,133	703	—	10,900	(a)
Cyprus—							
Ore	—	—	2	5	—	—	—
Hong Kong (including re- exports)—							
Ore	(a)	(a)	(a)	(a)	—	15	—
Malaya (c)—							
Ore	(e) 3,140	(e) 22,410	(e) 7,714	(e) 394	(a)	(a)	—
Australia—							
Ore	1	—	—	—	116	133	5
New Zealand—							
Ore	(a)	(a)	(a)	a	—	410	—
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Ore	1	—	—	—	—	1	(a)
France—							
Ore	14,376	30	39	—	—	799	421
Manganese dioxide	3	—	—	—	—	—	31
Ferro-manganese	723	141	537	1,235	17	334	951
Germany—							
Ore	2,314	3,781	8,545	(d) 677	(a)	(a)	(a)
Ferro-manganese	6,918	9,650	8,367	(d) 5,563	(a)	(a)	(a)
Italy—							
Ore, including mangani- ferrous iron ore	689	—	2,362	(a)	—	—	—
Ferro-manganese	1	1	1	(a)	—	—	—
Netherlands—							
Ore	—	1,913	—	(a)	(a)	233	839
Norway—							
Ferro-manganese	14,564	1,550	299	1,225	162	13,178	33,730
Ferro-silico-manganese	14,620	5,936	3,792	7,671	729	2,258	3,817
Portugal—							
Ore	978	2,824	9,238	3,831	3,869	1,415	3,231
Sweden—							
Ore	81	186	217	223	11	296	509
Ferro-manganese	481	10	29	—	271	287	1,326
Spiegeleisen	129	22	—	—	—	107	114
Ferro-silico-manganese	931	108	46	—	380	48	53

(a) Information not available.

(b) Excluding manganese ore mined in British India but exported via the Portugese port of Mormugao—1941, 10,425 tons; 1942, 950 tons; 1943, Nil; 1944, 77 tons; 1946, 44,833 tons.

(c) Including re-exports.

(d) January to July only.

(e) Imports into Japan from Malaya.

(f) January to November only.

EXPORTS OF MANGANESE ORE, ETC. (Cont.)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
U.S.S.R.—							
Ore	(c)	(c)	(c)	(c)	(c)	(c)	(c)
Angola—							
Ore	—	—	2,067	1,870	(a)	(a)	(a)
Belgian Congo—							
Ore	24,903	13,488	12,680	4,344	9,948	14,482	10,947
Egypt—							
Ore	(a)	(a)	5,220	64	—	—	(a)
Morocco (French)—							
Ore	80,093	27,122	6,587	2,046	26,936	62,127	95,422
Tunis—							
Ore	—	—	—	—	—	—	241
Cuba—							
Ore	247,415	140,170	203,104	409,553	277,303	140,619	(a)
Mexico—							
Ore	2,090	25,538	—	79,802	39,737	23,021	52,707
<i>Mn content</i>	964	11,311	22,625	27,964	18,269	11,163	(a)
United States—							
Ore	(a)	3,881	3,792	4,686	4,769	(a)	7,164
Ferro-manganese and spiegeleisen	4,603	6,450	11,449	715	2,883	9,342	18,280
Bolivia—							
Ore	—	590	16	—	—	—	—
<i>Mn content</i>	—	268	8	—	—	—	—
Brazil—							
Ore	430,494	301,404	271,200	144,622	240,785	149,793	139,848
Chile—							
Ore	21,052	9,530	—	4,022	87,937	166,374	26,180
<i>Mn content</i>	9,703	(a)	—	(a)	(a)	(a)	(a)
Peru—							
Ore	31	187	—	—	—	—	(a)
China—							
Ore	(d) 4,770	(d) 11,527	(d) 10,310	(d) 9,724	(a)	2	—
French Indo China—							
Ore	869	—	1,983	—	(a)	(a)	(a)
Japan—							
Ore	(e) 1,000	(e) 1,100	(e) 1,000	(e) 1,000	(a)	(a)	(a)
Ferro-manganese	98	418	49	177	(a)	(a)	(a)
Silico-manganese	1,024	1,772	835	472	(a)	(a)	(a)
Netherlands East Indies—							
Ore	(f) 8,814	(g) 8,822	(g) 30,890	(g) 12,681	(a)	(a)	(a)
Philippine Islands—							
Ore	(g) 14,271	(g) 12,152	(g) 33,575	(g) 14,457	(a)	(a)	(a)
Portuguese India—							
Ore	5,375	—	—	—	—	—	—
Turkey—							
Ore	(a)	(a)	(a)	(a)	—	—	30

(a) Information not available.

(b) January to November only.

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

	1942	1943	1944	1945	1946	1947
Germany	294,945	(a)	(a)	(a)	(a)	(a)
Netherlands	—	—	—	(a)	(a)	(a)
Norway	—	1,951	7,033	—	—	(a)
Sweden	—	—	—	—	—	5,890
United States	15,865	4,065	—	135,129	216,000	258,014

(d) Imports into Japan from China.

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

(f) January to July for Java and Madura only.

(g) Imports into Japan from the country indicated.

IMPORTS OF MANGANESE ORE, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Ore	314,149	421,204	444,582	315,251	318,084	200,078	315,787
Metal	23	533	245	—	—	—	—
Ferro-manganese and spiegeleisen	2,428	2,705	3,888	84	(b) 25	150	1,685
Ferro-silico-manganese	21,020	7,715	11,837	8,670	10,887	7,325	(a)
Union of South Africa—							
Ferro-manganese	155	100	162	—	126	(a)	(a)
Manganese dioxide	371	496	183	517	558	(a)	(a)
Canada—							
Ore	93,280	51,240	45,745	76,602	177,033	128,592	199,556
Ferro-manganese and spiegeleisen	2,762	3,172	14,667	77	186	1,007	487
Hong Kong (total imports)							
Ore	(a)	(a)	(a)	(a)	(a)	99	90
Australia—							
Ore	1,161	1,526	20,100	241	535	453	4,944
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Ore	597	478	5,614	429	25,258	58,117	78,737
Czechoslovakia—							
Ore	(a)	(a)	(a)	(a)	(a)	4,042	7,868
Denmark—							
Ore (c)	1,701	467	112	97	451	1,135	(a)
Finland (total imports)—							
Ferro-manganese and spiegeleisen	444	858	1,908	888	471	904	1,963
France—							
Ore	59,578	33,003	82	30	38,601	87,741	161,185
Ferro-manganese	—	39	356	1,109	1,987	11,930	11,905
Manganese dioxide	—	10	10	(a)	1,723	—	5,943
Germany—							
Ore	235,983	337,751	376,751	(d) 59,217	(a)	(a)	(a)
Ferro-manganese	9,136	13,159	654	(d) 252	(a)	(a)	(a)
Italy—							
Ore, including mangani- ferous iron ore	21,357	29,967	24,704	(a)	—	7,135	40,845
Spiegeleisen	289	—	—	(a)	—	—	197
Ferro-manganese	5,564	475	54	(a)	—	1,066	232
Ferro-silico-manganese	738	—	2	(a)	—	—	—
Netherlands—							
Ore	445	506	117	(a)	(a)	3,040	18,249
Norway—							
Ore	2,658	16,507	14,558	32,224	10,415	47,238	102,571
Spain—							
Ore	11,944	1,723	3,769	6,551	7,799	855	3,693
Ferro-manganese	—	295	15	—	5	1	11
Sweden—							
Ore (chemical grade)	413	456	304	684	402	285	732
do. (metallurgical grade)	4,880	290	—	—	3,978	21,271	18,807
Ferro-manganese	87	13	17	10	1,952	5,362	583
Spiegeleisen	—	—	—	—	1,100	6,257	607
Ferro-silico-manganese	212	227	101	126	380	420	300

(a) Information not available.

(b) Excess of re-exports.

(c) Chemical grade.

IMPORTS OF MANGANESE ORE, ETC. (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Algeria—							
Ore	15	8	50	—	—	—	79
Mexico—							
Ferro-manganese ..	1,322	164	721	308	790	474	(a)
United States—							
Ore	1,530,876	1,419,795	(b) 1,359,622	(b) 1,174,855	(b) 1,170,450	(b) 1,352,271	(b) 1,169,105
<i>Mn content</i>	736,568	685,314	(b) 654,051	(b) 565,391	(b) 565,970	(b) 662,485	(b) 560,261
Ferro-manganese ..	6,278	13,189	2,055	3,697	31,715	28,687	72,596
<i>Mn content</i>	5,058	10,393	884	2,910	24,727	23,132	58,197
Argentina—							
Dioxide and borate of manganese	339	306	232	206	53	481	(a)
Ferro-manganese ..	(a)	1,147	1,723	1,143	2,405	1,677	(a)
Chile—							
Ferro-manganese ..	466	1,106	96	222	496	201	(a)
Japan (total imports)—							
Ore	53,445	56,917	90,267	38,864	(a)	(a)	(a)

(a) Information not available.

(b) Total imports. Re-exports were 6,542 tons in 1943, 28,862 tons in 1944, 17,254 tons in 1945, (a) in 1946, and 1,831 tons in 1947, but metal contents are not recorded.

MICA
PRODUCTION OF MICA
(Long tons)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Northern Rhodesia—							
Sheet	1	3	8	15	5	(5 cwt.)	—
Waste	—	1	2	1	2	(6 cwt.)	—
Southern Rhodesia ..	9	12	53	246	193	330	291
Tanganyika Territory—							
Block and sheet	(d) 5	(d) 13	(d) 27	131	107	70	(d) 70
Waste	(d) —	(d) —	(d) —	—	150	265	(d) 5
Uganda	—	—	(d) 1	(d) 12	7	—	—
Union of South Africa (b)	1,060	1,245	1,060	1,245	1,113	1,757	1,975
Canada (sales)—							
Rough mine or rifted ..	} 1,558	} 2,821	} 638	} 140	} 5	} 309	} 110
Trimmed							
Splittings							
Sold for mechanical splittings							
Ground			85	191	147	114	130
Scrap			2,708	2,402	{ 783	1,186	1,865
By varieties—					{ 2,178	2,265	1,598
Phlogopite	(a)	(a)	3,348	2,861	2,542	3,172	2,906
Muscovite	(a)	(a)	246	123	603	722	808
Ceylon (exports)	1	—	6	2	1	(8 cwt.)	(4 cwt.)
India (exports)—							
Blocks	1,152	1,463	2,361	1,271	1,206	1,350	(g) 680
Splittings	8,979	6,846	4,759	2,341	3,253	6,566	(g) 6,890
Scrap	279	1,128	2,172	(1 cwt.)	323	2,586	(g) 1,419
Australia (c)	20	38	26	32	55	23	51
New Zealand	—	—	—	(3 cwt.)	(8 cwt.)	—	—
FOREIGN COUNTRIES							
Austria	(a)	(a)	(a)	(a)	(a)	35	77
France	(a)	(a)	100	1	—	—	(a)
Italy	299	(a)	407	(a)	(a)	(a)	(a)
Norway	67	1,369	974	473	133	64	(a)
Portugal	—	11	1,181	2,465	—	—	3
Spain	200	300	400	200	18	—	(a)
Sweden—							
Block	121	311	319	174	108	—	111
Ground	4	175	3	156	16	68	41
Angola	1	1	1	4	15	31	88
Madagascar—							
Phlogopite	} 471	} 315	} 324	} 484	} 602	} 459	} 444
Muscovite							
Mozambique	—	—	—	4	2	2	1
Mexico (exports)	36	83	129	109	402	80	(a)
United States (sales)—							
Sheets (uncut)	1,190	1,233	1,539	680	580	482	186
Scrap (e)	29,018	38,627	41,195	46,185	36,661	47,859	44,462
Argentina—							
Sheet	413	517	386	447	698	(a)	(a)
Waste	118	98	10	138	10	(a)	(a)
Bolivia (exports)	3	4	2	2	—	—	—
Brazil	1,181	1,034	891	(d) 926	1,000	1,613	(d) 843
Peru	8	5	9	118	483	204	2
Korea (f)	77	98	123	123	(a)	(a)	(a)

Mica is also produced in Roumania, the U.S.S.R. and Eritrea.

(a) Information not available.

(b) Chiefly waste mica. The production of sheet mica is negligible.

(c) The following amounts of Damourite were also produced (long tons): 1941—100; 1942—165; 1943—61; 1944—105; 1945—94; 1946—203; 1947—314.

(d) Exports.

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

(f) Imports into Japan from Korea.

(g) January to November only.

EXPORTS OF MICA

(Domestic Produce)

(Long tons)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Splittings, ground and waste	105	44	71	18	50	128	275
Kenya and Uganda	—	—	1	12	(£3,285)	(£253)	1
Southern Rhodesia	9	8	46	199	207	326	284
Tanganyika Territory—							
Block and sheet	5	13	27	125	97	72	70
Ground and waste	—	—	—	—	150	315	5
Union of South Africa (c)	1,026	756	735	421	1,047	2,675	2,153
Canada—							
Rough cobbled and thumb trimmed	227	216	385	553	388	313	213
Splittings	109	66	29	34	2	4	2
Ground	(a)	(a)	(a)	268	157	201	80
Scrap and waste	1,132	1,930	1,910	2,178	2,167	1,741	1,143
British India—							
Blocks	1,152	1,463	2,361	1,271	1,206	1,350	(e) 680
Splittings	8,979	6,846	4,759	2,341	3,253	6,566	(e) 6,890
Scrap	279	1,128	2,172	(1 cwt.)	323	2,586	(e) 1,419
Ceylon	1	—	6	2	1	(8 cwt.)	(4 cwt.)
Australia—							
Slabs (£ Australian)	(£1,695)	(£1,874)	(£35,715)	(£15,573)	(£1,187)	(£6,801)	(£16,686)
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Sheets and plates	5	—	—	—	(a)	(a)	(a)
Bulgaria	24	56	181	100	(a)	(a)	(a)
France—							
Unmanufactured	—	12	—	—	—	37	5
Sheet, plate and manufactures	4	18	4	1	2	6	11
Germany—							
Unmanufactured	70	72	11	(b) 2	(a)	(a)	(a)
Netherlands	—	5	2	(a)	(a)	1	(a)
Norway—							
Sheet	296	1,011	882	584	171	220	(a)
Scrap	116	85	59	129	384	67	(a)
Portugal	—	—	216	84	5	—	—
Sweden	(a)	(a)	(a)	(a)	63	20	368
Switzerland (including asbestos)	10	—	—	—	—	1	1
Madagascar—							
Phlogopite, etc.	518	1	244	590	244	703	538
Mozambique	1	1	—	1	1	(a)	(a)
Mexico	36	83	129	109	402	80	(a)
United States—							
Unmanufactured	193	179	80	95	127	132	148
Ground and manufactured	846	715	539	457	748	1,245	1,185
Argentina	380	402	397	165	313	350	(a)
Bolivia	3	4	2	2	(a)	(a)	(a)
Brazil	853	852	783	926	969	1,130	843
Peru	8	5	12	118	483	167	(a)
Korea (d)	77	98	123	123	(a)	(a)	(a)

(a) Information not available.

(b) January to July only.

(c) Chiefly waste mica. Exports of sheet mica are negligible.

(d) Imports into Japan from Korea.

(e) January to November only.

IMPORTS OF MICA

(Less Re-exports)

(Long tons)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Slabs	423	1,044	1,654	1,448	1,274	1,073	1,238
Splittings	427	1,143	1,155	363	225	2,200	3,707
Ground and waste	1,031	1,417	3,015	229	741	993	648
Tanganyika Territory	—	—	—	9	1	—	1
Union of South Africa—							
Mica and micanite sheets	10	7	5	12	7	(a)	(a)
Canada—							
Mica and manufactures	(£43,076)	(£39,931)	(£50,238)	(£41,795)	(£53,168)	(£65,898)	(£139,818)
British India—							
Block	318	255	—	165	554	—	(e) 11
Splittings	52	—	80	57	—	3	(e) 30
Australia—							
Slabs	(£6,539)	(£11,893)	(£32,762)	(£46,139)	(£9,671)	(£114,095)	(£1,394)
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Crude sheet and crude plate	7	10	3	2	(a)	(a)	(a)
Cut sheet and cut plate	1	2	—	—	(a)	(a)	(a)
Czechoslovakia	(a)	(a)	(a)	(a)	(a)	—	3
Denmark—							
Block	46	22	21	20	2	22	10
Powder	6	36	5	6	3	21	18
France—							
Unmanufactured	91	2	—	1	6	104	386
Sheet, plate and manufactures	1	5	6	1	47	282	284
Germany—							
Unmanufactured	492	2,098	1,755	(d) 770	(a)	(a)	(a)
Italy—							
Unmanufactured and sheet	(a)	(a)	(a)	(a)	(a)	(a)	207
Netherlands	27	13	7	(a)	(a)	54	144
Portugal	1	1	—	1	1	5	7
Egypt	1	—	—	—	—	6	—
Mexico	10	33	8	10	10	86	—
United States (b)—							
Unmanufactured	2,017	3,580	4,562	4,372	5,088	7,551	5,272
Cut, splittings and manufactures	5,393	6,504	7,998	2,037	3,272	4,899	5,046
Japan	1,280	197	246	246	(a)	(a)	48

(a) Information not available.

(b) Re-exports of mica and manufactures were as follows (long tons): 1941—22; 1942—16; 1943—Nil 1944—58; 1945—43; 1946—53; 1947—114.

(c) Total imports.

(d) January to July only.

(e) January to November only.

MOLYBDENUM
PRODUCTION OF MOLYBDENUM ORE

(In terms of MoS_2)

(Cwt.)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Canada (Shipments) ..	1,553	1,418	5,832	16,698	7,495	6,043	6,784
Australia	200	300	450	310	7	150	70
FOREIGN COUNTRIES							
Austria	(a)	(a)	(a)	(a)	(a)	(b) 145	(b) 20
Finland	7,560	8,030	8,334	8,550	3,620	4,110	2,300
France	(a)	(a)	361	225	—	—	(a)
Italy	600	600	290	2	—	—	—
Norway	7,647	12,080	7,604	8,136	2,486	313	3,216
Sweden	(a)	(a)	400	666	98	—	—
Egypt	—	—	20	80	—	—	—
French Morocco	1,700	330	360	—	—	1,417	1,181
Mexico	17,117	28,070	37,340	23,590	14,368	26,840	4,467
United States	600,635	847,351	917,565	575,580	458,363	271,102	402,485
Chile	7,510	19,020	22,310	32,789	27,595	18,367	13,172
Peru	4,802	5,040	2,800	2,028	952	137	103
Japan	1,360	1,850	2,854	6,200	3,540	1,480	550
Korea (b)	5,000	8,900	11,900	16,100	1,800	(a)	(a)

Molybdenum ore is also produced in Roumania, Yugoslavia, China and Turkey.

(a) Information not available.

(b) Estimated.

EXPORTS OF MOLYBDENUM ORE, ETC.

(Domestic Produce)

(Cwt.)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Ferro-molybdenum ..	(a)	(a)	(a)	(a)	(a)	(a)	2,680
Australia—							
Ore and concentrates ..	—	—	—	—	—	(c) 7	41
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Ore	4	—	—	—	(a)	(a)	(a)
Finland—							
Ore	3,910	5,428	4,512	2,750	1,228	4,099	1,375
France—							
Molybdic acid and molybdates	25	26	10	—	—	2	—
Norway—							
Ore	7,848	12,514	8,550	7,855	5,085	198	3,420
Sweden—							
Ore	—	439	20	—	—	—	—
Ferro-molybdenum ..	1,088	819	990	—	2	219	217
Morocco (French)—							
Ore	1,240	571	1,968	3,563	—	—	1,476
Mexico—							
Ore and concentrates (MoS ₂ content) ..	17,051	27,966	37,101	23,389	15,222	26,780	(a)
United States—							
Ore and concentrates ..	137,011	191,777	175,961	105,846	47,789	(a)	(a)
MoS ₂ content	113,695	172,568	149,868	89,068	25,558	5,044	26,690
Metal, alloys and scrap ..	(a)	6,463	3,467	9,174	802	(a)	1,188
Ferro-molybdenum ..	(a)	54,375	9,963	39,532	15,783	6,620	8,509
Chile—							
Ore	6,606	21,552	25,278	35,918	12,234	45,742	(a)
Peru—							
Ores (MoS ₂ content) ..	4,833	6,380	3,248	1,725	952	99	(a)
Korea—							
Ore (MoS ₂ content) (b) ..	157	157	295	443	39	(a)	(a)
Manchuria—							
Ore (MoS ₂ content) (b) ..	123	630	846	846	49	(a)	(a)

(a) Information not available.

(b) Imports into Japan from the country indicated.

(c) Year ended June 30, 1946.

IMPORTS OF MOLYBDENUM ORE, ETC.

(Less Re-exports)

(Cwt.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom— Ore	81,573	144,961	130,658	10,378	21,255	25,824	49,195
FOREIGN COUNTRIES							
France— Molybdic acid and molyb- dates	6	—	—	—	—	—	8
Italy— Ferro-molybdenum ..	93	1,672	766	(a)	—	15,058	535
Sweden— Ore	2,618	4,173	2,716	1,378	4,527	710	614
Ferro-molybdenum ..	64	17	4	33	40	219	291
United States— Ore (MoS_2 content) ..	5	11,250	26,617	52,040	9,900	4,118	(a)
Japan— Ore (MoS_2 content) ..	305	787	1,142	1,289	93	(a)	(a)

(a) Information not available.

MONAZITE
PRODUCTION OF MONAZITE
 (Long tons)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
India	3,475	1,300	1,908	2,016	1,567	60	(a)
Malaya	(a)	(b) 54	(b) 54	(b) 54	(b) 54	—	—
Australia	—	—	32	(2 cwt.)	—	—	—
FOREIGN COUNTRIES							
Brazil (exports)	841	1,407	1,526	3	1,014	1,230	(a)

(a) Information not available.

(b) Average annual production during Japanese occupation.

EXPORTS OF MONAZITE, ETC.

(Domestic Produce)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Gas mantles .. Gross	24,776	17,502	12,867	11,555	12,004	25,003	30,247
British India—							
Monazite sand Long tons	—	1,215	2,458	341	200	1,947	(a)
India (Travancore)—							
Monazite sand Long tons	1,698	200	—	250	(a)	(a)	(a)
Malaya (including re-exports)—							
Gas mantles .. Gross	(a)	(a)	(a)	(a)	(a)	288	733
FOREIGN COUNTRIES							
France—							
Thorium nitrate and other rare-earth salts Cwt.	1,451	2,370	1,943	836	—	2	224
Gas mantles .. Gross	260	110	220	—	160	1,514	3,194
Germany—							
Gas mantles .. Gross	29,813	31,681	15,639	(c) 8,903	(a)	(a)	(a)
Netherlands—							
Gas mantles .. Gross	—	—	135	(a)	(a)	—	(a)
Sweden—							
Gas mantles .. Cwt.	8	4	1	2	11	30	23
United States—							
Thorium compounds Cwt.	(a)	276	296	121	(b) 65	(a)	(a)
Gas mantles .. Gross	16,040	16,939	19,117	18,574	21,626	42,350	76,586
Brazil—							
Monazite sand Long tons	841	1,407	1,526	3	1,014	1,230	—

NOTE.—Where the quantity of gas mantles is returned by weight, the figure given is intended to represent weight of gas mantles exclusive of packing, etc.

(a) Information not available.

(b) January to June only.

(c) January to July only

IMPORTS OF MONAZITE, ETC.

(Less Re-exports)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Thorium nitrate, etc. Cwt.	3	—	1	44	34	6	15
Gas mantles .. Gross	417	30	555	505	72	721	3,631
Eire—							
Gas mantles .. Gross	2,416	2,074	670	617	617	443	1,342
Canada—							
Thorium and cerium salts £	5,238	3,503	2,514	3,696	2,788	7,800	5,223
British West Indies—							
Trinidad and Tobago—							
Gas mantles .. Gross	129	864	160	826	144	—	(a)
Aden—							
Gas mantles .. £	7	88	67	679	1,782	1,036	630
British India—							
Gas mantles .. £	1,319	2,268	1,853	1,797	2,283	6,929	(a)
Burma—							
Gas mantles .. £	(a)	(a)	(a)	(a)	(a)	(b) 899	(a)
Ceylon—							
Gas mantles .. Gross	2,085	457	2,122	1,875	467	2,345	3,447
Malayan Union (total imports)—							
Gas mantles .. Gross	(a)	(a)	(a)	(a)	(a)	237	7,436
Australia—							
Gas mantles .. Gross	2,696	2,574	3,693	4,437	2,260	4,220	4,487
FOREIGN COUNTRIES							
Finland—							
Gas mantles .. Cwt.	39	39	30	9	7	3	12
France—							
Thorium nitrate and other rare-earth salts Cwt.	—	37	173	1	—	689	697
Gas mantles .. Gross	—	646	40	—	111	104	243
Germany—							
Monazite sand Long tons	208	16	—	—	(a)	(a)	(a)
Gas mantles .. Gross	—	1,521	896	—	(a)	(a)	(a)
Netherlands—							
Gas mantles .. Gross	2,425	5,035	3,379	(a)	(a)	2,944	(a)
Norway—							
Gas mantles .. Cwt.	48	42	15	12	2	9	(a)
Portugal—							
Gas mantles .. Cwt.	15	24	4	20	7	10	11
Switzerland—							
Gas mantles .. Cwt.	1	1	—	1	—	1	3
Egypt—							
Gas mantles .. Gross	332	1,158	10	208	378	(a)	218
United States—							
Monazite sand and thorite Long tons	3,134	3,927	4,446	343	490	(a)	(a)
Argentina—							
Gas mantles .. Gross	10,190	17,288	10,684	3,740	11,860	18,131	(a)

NOTE.—Where the quantity of gas mantles is returned by weight, the figure given is intended to represent weight of gas mantles, exclusive of packing, etc.

(a) Information not available.

(b) February to September only.

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

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Union of South Africa (f)	525	529	486	529	495	491	521
Canada	126,008	127,327	128,580	122,589	109,433	85,770	105,912
Burma (b)	(i) 464	(a)	(a)	(a)	(a)	(a)	(a)
TOTAL	127,000	127,900	129,100	123,200	109,900	86,300	106,400
FOREIGN COUNTRIES							
Finland	93	572	4,572	241	364	107	—
Greece (e)	182	695	487	(a)	(a)	(a)	(a)
Italy	95	79	63	14	12	—	—
Norway	893	897	568	521	508	—	—
Sweden	99	371	691	687	384	—	—
U.S.S.R. (g)	15,000	(a)	(e) 10,980	(a)	(e) 13,200	(a)	(a)
Morocco (French)	(a)	(a)	44	46	(a)	(a)	(a)
Cuba	(a)	(a)	2,391	8,656	17,586	16,324	3,126
United States (d)	(j) 553	546	573	882	1,031	314	577
Japan (h)	2,290	1,234	1,590	1,754	642	—	—
Netherlands East Indies	1,914	(k) 300	(k) 300	(k) 300	(k) 300	—	—
New Caledonia (c)	10,477	6,685	5,334	5,943	4,010	3,300	3,300
TOTAL*	29,000	25,000	28,000	30,000	38,000	35,000	22,000
WORLD'S TOTAL*	156,000	153,000	157,000	153,000	148,000	121,000	128,000

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

(a) Information not available.

(b) Nickel content of speiss obtained as a by-product in smelting operations.

(c) Content of dry ore mined. The estimated content of matte exported was :—

	Long tons		Long tons
1941	6,800	1945	2,865
1942	5,594	1946	2,294
1943	5,420	1947	1,137
1944	5,760		

(d) Nickel content of salts and nickel produced as a by-product in the electrolytic refining of copper (partly from imported blister copper). In 1944 and 1945 includes nickel content of ores produced.

Secondary metal was recovered in the United States as follows :—

	Long tons		Long tons
1941	4,746	1945	5,788
1942	3,698	1946	7,364
1943	6,176	1947	8,519
1944	3,858		

(e) U.S. Bureau of Mines.

(f) Nickel content of platinum matte.

(g) Estimated.

(h) Obtained chiefly from nickel-bearing iron ores.

(i) Nine months ended March 31, 1942.

(j) In addition 37 tons of nickel in concentrates and mattes were produced as a by-product of talc.

(k) Average annual production during the Japanese occupation.

EXPORTS OF NICKEL

(Domestic Produce)

(Long tons)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Cubes, rondels, etc. ..	1,137	1,108	1,315	1,505	4,318	4,354	5,393
Plates, sheets, etc. ..	6	6	1	2	10	214	207
Ingots, sheets, wire, etc. (alloys) ..	503	189	163	174	322	1,650	1,525
Scrap and alloyed ..	566	122	—	—	—	34	1,494
Nickel oxide ..	9	116	53	4	24	111	48
Union of South Africa—							
Matte	(a)	(a)	(a)	(a)	(a)	313	256
Canada—							
Ore, matte, etc. (<i>Ni content</i>)	38,050	36,842	32,513	30,222	25,264	27,344	35,506
Nickel, fine	78,339	78,846	85,035	87,061	69,793	72,140	63,175
Nickel oxide (<i>Ni content</i>) ..	6,464	8,235	3,475	1,109	1,570	461	583
Hong Kong (including re-exports)—							
Nickel	(a)	(a)	(a)	(a)	(a)	(a)	2
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Ingots, scrap, etc. ..	114	379	60	16	} 1	25	105
Sheets, wire, etc. ..	2	1	1	—			
Czechoslovakia—							
Crude and scrap ..	} (a)	(a)	(a)	(a)	(a)	{ 18	—
Plates and sheets ..								6
Denmark—							
Crude and scrap ..	3	9	18	3	2	—	2
Finland—							
Ore	(a)	(a)	80,256	50,717	—	—	—
France—							
Matte and speiss ..	—	4	21	—	3	—	11
Ingots	—	68	273	21	—	1	1
do. (alloys)	15	179	186	—	2	4	—
Sheets and wire ..	—	—	—	204	—	—	1
do. (alloys)	2	2	—	—	—	40	63
Germany—							
Nickel and chrome ores	1,346	4,013	6,096	(b) 738	} (a)	(a)	(a)
Crude, scrap and coin ..	350	302	382	(b) 192			
Bars, sheets, wire, etc. ..	155	166	84	(b) 51			
Greece—							
Ore	(a)	(c)	(a)	(a)	—	—	(a)
Italy—							
Sheets, tubes, wire and alloys	20	—	—	—	—	—	388
Netherlands—							
Crude and scrap ..	113	16	4	(a)	(a)	13	93
Norway—							
Ingots	1,410	894	714	1,197	1,172	4,459	7,403

(a) Information not available.

(b) January to July only.

(c) An import of 9,870 tons from Greece was recorded by Germany.

EXPORTS OF NICKEL (Cont.)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Sweden—							
Crude	17	14	2	1	—	35	42
Switzerland—							
Crude, scrap and alloys	—	—	—	—	—	—	268
Bars, sheets, etc., and alloys	4	—	3	—	1	146	423
Cuba—							
Ore	—	194	—	2,925	15,846	(a)	(a)
United States—							
Bars, rods, sheets and alloys	5,442	1,898	2,928	3,077	721	841	1,211
Scrap and alloys			5,030	3,590	2,043	7,040	7,522
Nickel-silver bars, etc. ..			69	47	119	910	1,395
Brazil—							
Ore	—	24	494	—	—	—	(a)
New Caledonia—							
Ore	17,748	20	—	—	—	—	1,181
Matte, etc.	8,149	7,155	6,968	7,382	3,828	2,977	1,476

(a) Information not available.

IMPORTS OF NICKEL

(Less Re-exports)

(Long tons)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom							
Ore, concentrates and matte	27,688	26,498	20,294	21,784	19,373	12,737	21,500
Cubes, rondels, etc. ..	4,016	1,076	400	324	(b) 67	4,742	7,655
Plates, sheets, etc. ..	42	20	276	148	8	162	(a)
Ingots, sheets, etc. (alloys)	3,188	3,745	4,225	2,954	1,331	3,206	5,174
Scrap and alloyed ..	37	3	—	11	28	480	30
Nickel oxide	152	130	25	10	85	306	389
Eire—							
Nickel, alloys and manufactures ..	4	3	—	1	6	21	20
Canada—							
Ingots or blocks and alloyed	20	30	27	7	11	5	82
Bars, rods, sheets, etc. ..	681	393	436	336	606	1,106	966
do. (alloyed)	201	22	24	43	75	319	181
British India—							
Nickel-silver	714	5	—	—	—	283	(a)
Hong Kong (total imports)—							
Nickel	(a)	(a)	(a)	(a)	(a)	9	35
Australia—							
Ingots, sheets, scrap, etc.	4,555	2,230	1,248	58	79	167	1,293
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Ingots, scrap, etc. ..	1	25	3	1	} 180	926	1,033
Sheets, wire, etc. ..	8	2	3	—			
Czechoslovakia—							
Crude and scrap ..	} (a)	(a)	(a)	(a)	(a)	{ 188	1,724
Plates and sheets ..								36	34
Denmark—							
Crude and scrap ..	9	21	44	9	31	87	65
Finland (total imports)—							
Crude and scrap ..	—	16	19	17	1	4	(a)
France—							
Matte and speiss ..	627	—	1	—	—	2,179	785
Ingots	—	4	11	58	1,825	4,321	4,039
do. (alloys)	3	—	2	2	1	121	102
Sheets and wire ..	—	4	5	—	1	153	223
do. (alloys)	48	40	10	2	4	94	157
Nickel sulphate and oxide	36	92	—	—	85	1,795	1,180
Germany—							
Ore	4,249	16,046	27,070	(c) 34,570	} (a)	(a)	(a)
Crude, scrap and coin ..	3,539	2,353	1,165	(c) 425			
Bars, sheets, wire, etc. ..	75	23	16	(c) 3			
Italy—							
Ingots, scrap and alloyed	413	295	266	—	—	1,270	1,299
Sheets, tubes, wire, etc., and alloyed	30	20	49	—	—	59	256
Netherlands—							
Crude and scrap ..	60	52	84	(a)	(a)	431	576
Norway—							
Crude, bars, rods, etc. ..	—	9	1	1	7	22	(a)
Matte (copper nickel) ..	—	—	—	3,002	1,882	11,138	(a)

(a) Information not available.

(b) Excess of re-exports.

(c) January to July only.

IMPORTS OF NICKEL (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Portugal	1	1	—	—	8	55	45
Spain—							
Ingots, bars, etc. ..	7	9	4	12	20	343	274
Sweden—							
Crude	66	27	92	150	1,884	2,955	3,167
Switzerland—							
Crude, scrap, and alloyed	20	14	58	42	260	931	566
Bars, sheets, etc., and							
alloyed.. .. .	92	31	22	10	10	212	354
Algeria—							
Sheets, wire and alloys	1	1	—	14	2	2	1
Egypt (total imports)—							
Crude, bars, sheets, etc.	—	4	1	4	16	36	(a)
Mexico—							
Ingots	4	2	9	4	123	40	(a)
United States—							
Ore and matte	35,666	35,883	38,827	32,488	22,356	17,005	13,068
Crude, tubes, etc., and							
alloys	66,958	72,132	82,660	82,194	68,458	63,538	52,385
Nickel oxide	8,024	10,694	4,629	4,879	17,042	12,965	13,459
Argentina	19	11	10	—	(a)	(a)	(a)
Brazil (total imports)—							
Cubes and sheets ..	20	32	5	41	204	204	(a)
Chile—							
Ingots, bars and plates	44	55	78	55	84	75	(a)
Uruguay—							
Ingots	(a)	(a)	2	5	(a)	(a)	(a)
Iran (total imports) (b)—							
Ingots, bars, etc. ..	57	50	—	—	(a)	(a)	(a)
Japan—							
Ore	3,093	746	1,330	449	(a)	(a)	(a)
Matte	—	3	29	166	435	(a)	(a)
Metal	1,220	(a)	(a)	a)	(a)	(a)	(a)
Turkey—							
Ingots, bars, sheets, alloys							
etc.	(a)	(a)	(a)	3	11	(a)	(a)

(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	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
India—							
Nitrate of potash (b) ..	10,486	5,118	2,321	2,118	7,467	3,457	(a)
FOREIGN COUNTRIES							
Chile—							
Nitrate of soda	1,393,976	1,311,674	1,152,654	975,062	1,361,654	1,622,915	1,605,460

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

(a) Information not available.

(b) Exports plus consumption in tea gardens.

ESTIMATED PRODUCTION OF MANUFACTURED NITROGEN COMPOUNDS*

(Long tons)

Producing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom and Eire (e)							
Total ammonia products basis 25% NH ₃ ..	1,135,000	1,286,000	1,541,000	1,429,200	1,375,600	1,430,000	1,325,700
Actual ammonium sulphate ..	590,400	620,400	826,500	779,500	760,400	833,700	796,700
Union of South Africa—							
Ammonium sulphate (c) ..	3,672	576	97	—	(a)	(a)	(a)
Canada—							
Ammonium sulphate ..	88,091	104,282	175,361	187,123	197,767	176,728	175,737
Ammonium nitrate (c) ..	(a)	(a)	(a)	(a)	183,915	236,721	(a)
Ammonium phosphate (c) ..	52,946	47,080	68,019	119,295	(a)	(a)	(a)
Mixed fertilizers (N content) (c) ..	(a)	(a)	(a)	(a)	13,962	17,234	17,113
India—							
Ammonium sulphate ..	26,353	24,956	19,460	20,118	19,591	19,108	(a)
Australia—							
Ammonium sulphate (c) ..	26,746	28,244	23,988	23,220	22,095	21,823	29,266
FOREIGN COUNTRIES							
Austria—							
Nitrogen fertilizers (20.5% N) ..	(a)	(a)	(a)	(a)	(a)	31,321	106,971
Belgium—							
N content—							
Synthetic ammonia etc. Ammonium sulphate ..	}	(a)	(a)	(a)	(a)	}	108,739
Cyanamide ..							9,096
Mixed fertilizers ..							5,355
Technical products ..							2,835
						4,825	122,713
							10,610
							6,786
							3,785
							10,133
France—							
Ammonium sulphate (c) ..	167,300	128,300	112,200	90,800	35,700	106,836	(a)
Cyanamide (c) ..	50,000	28,300	11,400	5,400	9,600	13,800	(a)
Nitrate of soda (c) ..	27,600	27,800	26,400	12,400	1,900	9,400	16,700
Nitrate of lime (c) ..	152,000	173,400	147,000	128,000	63,000	115,200	172,300
Nitrate of ammonia (c) ..	33,000	53,200	44,800	53,000	29,000	57,300	141,300
"Ammonitrate" (c) ..	128,500	143,400	152,600	128,000	41,000	106,400	97,000
Germany (b)—							
Chemical nitrogen (N content)—							
Fertilizer ..	817,720	743,249	641,542	492,376	(a)	(d) 183,000	(d) 247,000
Technical use ..	195,962	232,893	284,976	352,159	(a)	(a)	(a)
Italy—							
Ammonium sulphate ..	310,700	256,920	}	(a)	(a)	(a)	(a)
Cyanamide ..	182,972	110,237					
Nitrate of soda ..	3,232	2,715					
Nitrate of lime ..	197,294	189,371					
Nitrate of ammonia ..	50,098	41,757					
Di-ammonium phosphate ..	3,739	308					
Netherlands—							
Ammonium sulphate (N content) ..	12,365	12,321	9,270	6,589	2,562	5,525	10,791

* Includes by-product ammonium sulphate which is separately recorded as far as available on pages 66-69.

(a) Information not available.

(b) Years ended May 31 of the year stated for 1941 to 1944.

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

(d) British, American and French zones.

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

ESTIMATED PRODUCTION OF MANUFACTURED NITROGEN COMPOUNDS (Cont.)

Producing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Norway— ..							
Cyanamide	58,549	33,571	46,943	51,004	12,931	(a)	(a)
Nitrate of ammonia	2,499	4,740	3,756	2,320	2,515	(a)	(a)
Nitrate of lime	330,692	303,145	443,336	226,025	469,276	(a)	(a)
Nitrate of soda	(a)	856	2,559	—	2,839	(a)	(a)
Lime ammonium nitrate	17,695	12,588	47,793	3,238	7,626	(a)	(a)
Poland—							
Ammonium sulphate	}	(a)	(a)	(a)	(a)	}	54,722
Cyanamide							97,621
Nitrate of soda							1,740
“Saletrzak”							36,474
Nitrate of ammonia						6,032	9,143
Spain—							
Ammonium sulphate	10,448	16,771	19,397	18,413	16,428	15,779	15,921
Sweden—							
Compressed ammonia (100%)	113	132	198	225	255	2,574	(a)
Ammonium sulphate (b)	3,984	4,732	4,583	3,742	3,222	3,244	(a)
Ammonia (25%)	1,044	1,670	2,225	2,851	3,141	2,924	(a)
Synthetic nitrogen fertilizer (N content)	9,138	15,462	16,313	18,075	13,602	12,709	9,214
Switzerland—							
Nitrogen fertilizers (N content)	12,000	12,000	12,000	12,000	14,000	14,000	14,000
United States—							
Sulphate equivalent of ammonia produced (coke-ovens)	777,457	805,815	801,512	843,663	780,999	664,033	814,564
Actual ammonium sulphate (coke-ovens)	665,355	684,647	679,705	730,575	682,404	574,779	722,714
Japan—							
Ammonium sulphate	1,222,000	1,082,000	951,000	701,000	239,162	459,451	709,597
Cyanamide	228,000	200,000	164,000	163,000	61,400	142,989	172,232
Synthetic fertilizer	78,000	104,000	63,000	63,000	17,000	(a)	(a)

(a) Information not available.

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

EXPORTS OF NITROGEN COMPOUNDS

(Domestic Produce)

(Long tons)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Nitrate of potash ..	1,087	600	273	264	546	2,752	2,133
Nitrate of soda ..	260	359	51	103	4,181	5,159	1,952
Nitrate of lime ..	1	20	—	—	3	(a)	(a)
Ammonium sulphate ..	10,213	39,174	6,149	133,063	252,327	277,925	246,280
Ammonium chloride ..	7,110	6,117	10,805	11,923	13,303	15,938	9,267
Ammonium nitrate ..	8,361	18,690	690	11,458	37,376	130,516	79,546
Ammonium phosphate ..	433	136	101	86	74	675	329
Liquid ammonia ..	356	312	347	431	2,339	10,918	7,344
Anhydrous ammonia ..	829	76	204	307	308	767	1,395
Canada—							
Ammonium sulphate ..	53,107	70,746	125,964	149,550	161,776	138,792	141,942
Cyanamide ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
British India—							
Nitrate of potash ..	10,096	4,518	2,061	1,223	153	1,135	(a)
Ammonium sulphate ..	20	—	—	—	—	—	(a)
Hong Kong (including re-exports)—							
Nitrate of potash ..	(a)	(a)	(a)	(a)	(a)	120	2,275
Nitrate of soda ..	(a)	(a)	(a)	(a)	(a)	436	4
Ammonium sulphate ..	(a)	(a)	(a)	(a)	(a)	1,631	8,746
Ammonium chloride ..	(a)	(a)	(a)	(a)	(a)	459	615
Anhydrous ammonia ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Malaya (including re-exports)—							
Nitrate of potash ..	(a)	(a)	(a)	(a)	(a)	—	5
Other nitrogen fertilizers	(a)	(a)	(a)	(a)	(a)	16	72
Australia—							
Nitrate of soda ..	—	5	8	4	2	189	5
Ammonium sulphate ..	63	3	—	89	164	115	161
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Nitrate of potash ..	10	—	—	—	—	—	—
Nitrate of soda ..	24	—	—	—	—	—	—
Nitrate of lime ..	—	501	—	—	—	—	—
Ammonium sulphate ..	1,614	15,602	226	—	—	—	—
Ammonium chloride ..	101	65	1,092	2,506	(a)	(a)	(a)
Ammonium nitrate ..	2	3,146	2,048	—	—	—	—
Ammonium carbonate ..	2	—	2	15	—	—	—
Ammonium phosphate ..	152	2	170	3	—	—	—
Cyanamide ..	—	—	—	—	—	—	—
Liquid ammonia ..	—	7,463	12,656	99	—	—	—
Czechoslovakia—							
Nitrate of potash ..	(a)	(a)	(a)	(a)	(a)	—	—
Nitrate of soda ..	(a)	(a)	(a)	(a)	(a)	30	69
Ammonium sulphate ..	(a)	(a)	(a)	(a)	(a)	4	—
Ammonium chloride ..	(a)	(a)	(a)	(a)	(a)	15	59
France—							
Nitrate of potash ..	21	70	—	—	46	1,144	4,310
Nitrate of soda ..	11,028	557	—	—	150	332	2,104
Nitrate of lime ..	232	13,047	493	983	—	41	2,368
Ammonium sulphate (b)	23,034	24,457	3,373	2,164	—	13,168	58,066
Cyanamide ..	2,080	4,607	—	—	697	41	89
Liquid ammonia ..	283	326	1	1	9	1	190

(a) Information not available.

(b) May include some "Ammonium nitrate."

EXPORTS OF NITROGEN COMPOUNDS (Cont.)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Germany—							
Nitrate of potash ..	14,161	9,024	9,133	(c) 3,158	} (a) (a) (a)	} (a) (a) (a)	} (a) (a) (a)
Nitrate of soda ..	2,447	1,954	1,942	(c) 1,742			
Nitrate of lime, etc. ..	80,747	83,164	28,466	(c) 49,826			
Ammonium sulphate ..	88,373	90,509	82,208	(c) 50,509			
Ammonium chloride ..	3,992	4,982	3,699	(c) 708			
Ammonium nitrate, etc. ..	3,975	6,828	8,404	(c) 2,779			
Cyanamide ..	3,157	5,746	2,336	(c) —			
Liquid ammonia ..	788	1,153	1,253	(c) 634			
Netherlands—							
Nitrate of potash ..	—	77	—	} (a) (a) (a)	} (a) (a) (a)	} 213 (a)	} (a) (a) (a)
Nitrate of soda ..	—	5	5				
Nitrate of lime ..	—	—	—				
Ammonium sulphate ..	—	—	910				
Ammonium chloride ..	—	—	19				
Ammonium nitrate ..	—	—	—				
Lime ammonium nitrate	—	2,082	—				
Cyanamide ..	—	—	—				
Other nitrogen fertilizers	13	—	—				
Norway—							
Nitrate of soda ..	4,123	1,464	407	922	2,328	2,273	3,962
Nitrate of lime ..	306,881	281,958	281,658	209,621	371,969	421,719	368,659
Ammonium nitrate ..	247	771	246	527	74	148	1,918
Cyanamide ..	54,904	24,831	47,211	30,104	4,667	32,082	42,615
Spain—							
Ammonium sulphate ..	171	176	54	92	56	2,778	2,216
Synthetic nitrates ..	—	—	1	—	—	2,026	577
Sweden—							
Nitrates of potash, soda and lime ..	(b) 4,921	—	1	—	3	7	52
Liquid ammonia ..	—	1	—	—	48	1	—
Switzerland—							
Nitrate of potash (crude)	2,860	4,412	4,422	1,013	41	271	298
Nitrates of potash and soda (purified) ..	—	—	—	—	488	256	654
United States—							
Nitrate of soda ..	} 60,050	43,445	6,046	10,355	10,919	14,464	17,790
Nitrate of potash, etc. ..		3,043	3,661	2,957	3,363	(a)	(a)
Ammonium nitrate ..		3,371	8,513	12,013	8,790	6,225	5,968
Other nitrogen fertilizers		8,970	11,803	9,978	74,792	(a)	(a)
Ammonium sulphate ..	84,616	24,545	69,653	9,477	18,528	22,550	79,108
Nitrogen phosphatic fertilizers ..	8,357	4,745	3,001	1,124	8,498	3,360	55,900
Anhydrous ammonia ..	5,409	1,059	1,771	3,235	3,850	5,499	5,412
Liquid ammonia ..	(a)	1,582	6,083	2,232	2,424	(a)	(a)
Chile—							
Nitrate of soda ..	1,250,414	1,187,913	1,043,386	1,060,114	1,588,302	1,386,113	1,640,082
Nitrate of potash ..	56	603	4,976	3,217	715	702	(a)

(a) Information not available.

(b) Nitrate of lime.

(c) January to July only.

IMPORTS OF NITROGEN COMPOUNDS

(Less Re-exports)

(Long tons)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Nitrate of potash	3,852	2,325	1,464	964	(c) 5	297	143
Nitrate of soda	161,205	92,846	11,628	3,195	19,175	45,085	19,276
Nitrate of lime	—	—	—	—	1	—	—
Cynamide	501	350	500	565	850	686	1,573
Ammonium chloride	—	—	—	—	—	—	(c) 6
Ammonium nitrate	10,000	—	—	2	2	—	—
Ammonium phosphate	—	—	23,940	18,923	35,162	18,273	9,615
Anhydrous ammonia	—	—	—	—	—	—	—
Eire—							
Nitrate of potash	191	121	4	56	55	46	55
Nitrate of soda	1	39	5	17	80	174	8,051
Ammonium sulphate	769	619	4,104	3,151	1,612	4,021	8,089
Anhydrous ammonia	6	10	25	18	25	28	48
Anglo-Egyptian Sudan—							
Nitrate of lime	—	—	—	—	—	2,179	(a)
Ammonium sulphate	2	6	—	—	103	537	(a)
Mauritius—							
Nitrate of potash	3,170	210	102	2,500	—	500	—
Nitrate of soda	5,852	6,935	783	2,606	—	3,454	9,220
Ammonium sulphate	2,003	9,630	—	4,000	2,471	2,500	4,596
Northern Rhodesia—							
Nitrates	—	50	—	—	—	—	(a)
Southern Rhodesia—							
Nitrates	122	125	105	100	77	93	88
Anhydrous ammonia	14	10	11	12	10	12	14
South West Africa—							
Anhydrous ammonia	4	2	4	4	5	(a)	(a)
Union of South Africa—							
Nitrate of potash (b)	3	2	—	—	—	(a)	(a)
Nitrate of soda (b)	11,460	14,421	1	—	533	(a)	(a)
Ammonium sulphate	3,735	4,615	9,116	2,982	15,237	(a)	(a)
Ammonium chloride (b)	289	367	205	187	403	(a)	(a)
Ammonium nitrate (b)	2,346	9,580	917	13,442	8,617	1,813	(a)
Anhydrous ammonia (b)	39	3	—	—	—	(a)	(a)
British Guiana—							
Ammonium sulphate	(a)	(a)	(a)	(a)	10,490	11,046	8,452
Canada—							
Nitrate of potash	809	750	837	970	655	366	261
Nitrate of soda	49,737	33,628	14,230	14,035	12,417	13,909	14,973
Ammonium sulphate	51	4,504	35	93	93	57	110
Ammonium chloride	1,126	504	36	973	509	731	139
Ammonium nitrate	1,056	79	103	67	74	73	75
Anhydrous ammonia	1,032	55	29	32	151	1,836	2,202
British West Indies—							
Barbados—							
Nitrate of soda	395	—	—	785	—	(a)	(a)
Ammonium sulphate	6,572	450	3,083	10,985	—	7,484	2,582
Jamaica—							
Nitrogen fertilizers	6,394	1,227	2,372	—	345	6,656	6,630
Trinidad and Tobago—							
Ammonium sulphate	2,483	—	180	2,441	6,086	7,330	6,826
Newfoundland (d) —							
Nitrogen fertilizers	(a)	(a)	(a)	610	415	580	849
Liquid ammonia	(a)	(a)	(a)	6	3	5	5
Anhydrous ammonia	(a)	(a)	(a)	9	12	7	10

(a) Information not available.

(b) Total imports.

(c) Excess of re-exports.

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

IMPORTS OF NITROGEN COMPOUNDS (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947			
BRITISH COUNTRIES (Cont.)										
British India—										
Nitrate of soda	1,211	1,609	—	4,004	—	—	(b) 86			
Ammonium sulphate	2,278	1,361	—	34,234	70,747	121,848	(b) 114,043			
Ammonium phosphate	652	—	—	54,822	1,786	4,504	(a)			
Ammonium chloride	1,859	1,563	721	5,054	2,014	1,904	(b) 1,716			
Other ammonium salts	827	520	429	2,072	1,696	308	(b) 2,247			
Anhydrous ammonia	150	101	40	122	147	157	(b) 157			
Other nitrogen fertilizers	20	—	—	—	6	1	(b) 4,300			
Ceylon—										
Nitrate of potash refuse	1,467	110	—	—	—	—	—			
Nitrate of soda	13,223	—	—	—	—	—	—			
Ammonium sulphate	—	7,539	9,663	12,637	47,614	29,567	44,027			
Cyanamide	—	—	—	2,884	1,949	—	—			
Cyprus—										
Ammonium chloride	2	(a)	(a)	4	1	13	2			
Hong Kong (total imports)—										
Nitrate of potash	(a)	(a)	(a)	(a)	(a)	202	446			
Nitrate of soda	(a)	(a)	(a)	(a)	(a)	88	1,337			
Ammonium sulphate	(a)	(a)	(a)	(a)	(a)	1,687	4,311			
Ammonium chloride	(a)	(a)	(a)	(a)	(a)	961	1,142			
Anhydrous ammonia	(a)	(a)	(a)	(a)	(a)	22	68			
Malaya (total imports)—										
Nitrate of potash	(a)	(a)	(a)	(a)	(a)	53	4			
Other nitrogen fertilizers	(a)	(a)	(a)	(a)	(a)	1,937	14,715			
Palestine—										
Nitrogen fertilizers	(a)	3,290	5,234	5,401	12,375	7,208	(a)			
Anhydrous ammonia	18	30	4	3	7	7	(a)			
Australia—										
Nitrate of potash	892	578	332	91	—	—	—			
Nitrate of soda	35,108	4,327	32,499	16,419	4,352	3,007	3,720			
Ammonium chloride	563	668	827	5	410	84	128			
Ammonium sulphate	13,843	44	53	2,394	26,707	26,052	11,587			
New Zealand—										
Nitrate of potash	4	47	21	5	2	1	22			
Nitrate of soda	2,225	2,207	1,560	2	4,173	3,656	2,802			
Ammonium sulphate	1,646	1,885	1,914	6,176	2,089	649	1,126			
Ammonium chloride	146	165	220	107	198	170	340			
Anhydrous ammonia	24	43	41	39	65	62	76			
FOREIGN COUNTRIES										
Belgium-Luxemburg E.U.—										
Nitrate of potash	68	33	40	176	}	(a)	(a)			
Nitrate of soda	—	17	1	—						
Nitrate of lime	—	16	—	—						
Cyanamide	—	—	—	—						
Ammonium sulphate	1,377	151	1,843	3,316						
Ammonium chloride	84	111	20	2						
Ammonium nitrate	—	14,595	—	—						
Bulgaria—										
Nitrate of potash	91	169	123	20	}	(a)	(a)			
Nitrate of soda	412	1	19	5						
Ammonium nitrate, etc.	563	1,016	1,696	604						
Ammonium chloride	78	234	193	27						
Liquid ammonia	28	34	65	18						
Czechoslovakia—										
Nitrate of soda	}	(a)	(a)	(a)	(a)	}	200			
Ammonium chloride								15	—	405
Cyanamide, etc.								11	—	68

(a) Information not available.

(b) January to November only.

IMPORTS OF NITROGEN COMPOUNDS (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Denmark—							
Nitrate of potash ..	261	316	321	302	12	462	380
Nitrate of soda ..	89	198	144	349	5,230	46,046	55,320
Nitrate of lime ..	151,811	200,898	178,043	151,571	208,961	181,796	186,268
Ammonium sulphate ..	36,592	14,919	17,401	16,700	115	—	14,173
Ammonium chloride ..	500	300	395	117	163	580	482
Ammonium nitrate ..	79	93	73	83	98	140	312
Cyanamide ..	15,850	10,267	26,776	17,859	4,771	5,033	4,862
Finland (total imports)—							
Nitrate of potash ..	93	262	36	14	—	17	33
Nitrate of soda ..	81	73	29	5	100	1	17,539
Nitrate of lime ..	50,808	43,553	49,393	28,896	—	6,212	24,977
Ammonium nitrate ..	1,906	1,116	2,366	1,908	2,335	14,495	14,283
Ammonium sulphate ..	9,511	19,904	18,516	5,122	1,311	203	966
Ammonium chloride ..	124	320	168	43	—	133	156
Cyanamide ..	2,043	—	4,226	1,767	5,106	—	—
Liquid ammonia ..	3	3	60	102	48	17	41
France—							
Nitrate of soda ..	96	—	—	—	37,662	196,194	135,103
Nitrate of lime, etc. ..	—	—	—	984	44,063	180,413	94,068
Ammonium sulphate (b) ..	1,358	28,311	6,971	1,633	19,719	17,952	21,305
Ammonium nitrate ..	—	—	1	—	899	10,567	—
Cyanamide ..	—	—	—	—	325	—	1,968
Liquid ammonia ..	—	6,244	2,457	1	44	1	3,121
Other nitrogen fertilizers	(a)	—	137	—	4,003	19,737	35,191
Germany—							
Nitrate of potash ..	—	2	—	(c) —	} (a)	} (a)	(d) 59,052
Nitrate of soda ..	347	5	5	(c) —			
Nitrate of lime, etc. ..	6,874	1,240	316	(c) 902			
Cyanamide ..	3,513	322	39	(c) —			
Ammonium sulphate ..	68	—	95	(c) 945			
Ammonium chloride ..	—	28	513	(c) 3,216			
Liquid ammonia ..	11	9,160	32,179	(c) 9,013			
Greece—							
Nitrate of soda ..	} (a)	(a)	(a)	(a)	} 3,835	8,779	—
Ammonium sulphate ..						4,462	—
Liquid ammonia ..						92	—
Iceland—							
Nitrate of lime ..	—	2	—	—	1	3,550	} (a)
Nitrate of soda ..	—	6	4	—	13	2	
Ammonium sulphate ..	3,035	3,460	2,946	2,947	2,669	893	
Lime ammonium nitrate	—	—	—	—	892	2,179	
Nitrophoska ..	—	—	—	—	—	—	
Other nitrogen fertilizers	—	30	100	100	246	250	
Italy—							
Nitrate of soda ..	(a)	(a)	(a)	(a)	(a)	(a)	70,238
Netherlands—							
Nitrate of potash ..	9,395	5,443	275	(a)	(a)	156	198
Nitrate of soda ..	3,539	573	516	(a)	(a)	114,450	55,781
Nitrate of lime ..	35,880	—	—	(a)	(a)	29,461	19,647
Ammonium sulphate ..	13	—	15	(a)	(a)	982	14,069
Ammonium chloride ..	565	835	452	(a)	(a)	85	206
Ammonium nitrate ..	5,551	—	—	(a)	(a)	78,271	106,927
Lime ammonium nitrate	9,086	2,550	2,644	(a)	(a)	2	—
Cyanamide ..	27,411	12,866	—	(a)	(a)	14,181	19,887
Other nitrogen fertilizers	268	78	17	(a)	(a)	99	—

(a) Information not available.

(b) May include some "ammonium nitrate."

(c) January to July only.

(d) Nitrogen in fertilizers.

IMPORTS OF NITROGEN COMPOUNDS (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Norway—							
Nitrate of potash ..	45	77	53	37	210	122	(a)
Nitrate of soda ..	—	—	39	—	—	—	(a)
Ammonium sulphate ..	2	6	—	15	—	—	(a)
Ammonium nitrate ..	—	—	800	581	—	—	(a)
Portugal—							
Nitrate of potash ..	41	152	79	50	278	198	249
Nitrate of soda ..	14,257	33,634	43,392	39,860	33,877	44,998	22,834
Ammonium sulphate ..	37,543	195	16,114	3,348	9,828	7,820	24,320
Ammonium chloride ..	43	78	64	48	146	623	561
Ammonium nitrate ..	343	280	707	697	13,958	8,198	1,603
Cyanamide ..	1,594	(a)	(a)	(a)	200	4,348	3,758
Spain—							
Nitrate of soda ..	51,663	36,575	26,733	44,926	47,412	68,550	87,518
Cyanamide ..	8,849	11,988	2,102	4,296	761	—	—
Ammonium sulphate ..	18,242	29,845	56,075	353	—	—	37,143
Synthetic nitrates ..	19,527	10,687	15,605	23,792	1,446	31,355	4,162
Sweden—							
Nitrate of potash ..	672	531	317	288	101	592	—
Nitrate of soda ..	1,557	1,549	761	18,276	12,152	24,280	18,156
Nitrate of lime ..	125,460	102,528	98,849	69,685	98,328	111,172	79,374
Ammonium nitrate ..	10	38	93	—	—	—	—
Ammonium sulphate ..	9,939	6,182	2,988	3,148	25	21	20
Ammonium chloride ..	492	570	550	327	208	758	613
Liquid ammonia ..	10	4	—	—	—	—	5
Switzerland—							
Nitrate of potash, crude	—	—	—	—	—	49	—
Nitrates of potash and soda, purified ..	2,830	940	184	94	39	707	737
Ammonium sulphate, etc.	7	3	1,970	—	—	10	5
Ammonium chloride ..	265	494	235	62	88	383	644
Liquid ammonia ..	3	1	17	1	—	1	—
Algeria—							
Nitrate of potash ..	11	20	—	—	12	20	15
Nitrate of soda ..	423	290	216	69	557	275	5,187
Nitrate of lime ..	120	69	—	5,368	2,935	4,643	1,157
Ammonium sulphate ..	6,394	4,255	—	1	—	4,204	18,343
Cyanamide ..	93	30	—	—	—	41	20
Liquid ammonia ..	55	38	8	8	25	135	141
Egypt—							
Nitrate of soda ..	—	146,535	147,438	229,739	225,195	169,720	} (a)
Ammonium sulphate ..	3,898	—	6,375	21,479	14,300	20,807	
Ammonium chloride ..	410	524	330	94	324	287	
Ammonium nitrate ..	—	—	—	14,151	36,205	—	
Nitro-chalk ..	—	—	—	—	7	—	
Madagascar—							
Nitrate of potash ..	—	(a)	—	(a)	(a)	(a)	(a)
Nitrate of soda ..	14	(a)	—	(a)	(a)	(a)	(a)
Ammonium sulphate ..	14	(a)	—	(a)	(a)	(a)	(a)
Morocco (French)—							
Nitrate of soda ..	—	123	—	62	79	523	633
Ammonium sulphate ..	1,440	716	12	44	5	528	7,510
Morocco (Spanish)—							
Ammonium sulphate ..	(a)	(a)	(a)	89	42	105	110
Mozambique—							
Ammonium sulphate ..	17	—	10	—	11	(a)	(a)
Tunis—							
Nitrate of potash ..	1	9	—	5	1	6	12
Nitrate of soda ..	291	123	97	121	89	90	186
Nitrate of lime ..	—	—	—	—	—	63	—
Ammonium sulphate ..	453	408	24	—	—	—	290

(a) Information not available.

IMPORTS OF NITROGEN COMPOUNDS (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Cuba—							
Nitrates of potash and soda	591	12,208	632	2,416	22,190	(a)	(a)
Ammonium sulphate ..	6,203	3,381	2,767	4,564	11,638		
Anhydrous ammonia ..	174	106	137	87	255		
Martinique—							
Ammonium sulphate ..	6,165	90	—	—	(a)	(a)	(a)
Mexico—							
Nitrates of potash and soda	18,298	7,693	18,052	12,567	15,695	(a)	(a)
Ammonium sulphate ..	33	19	841	990	4,371		
Ammonium chloride ..	325	137	133	457	198		
Ammonium nitrate ..	2,822	3,743	4,035	1,872	2,504		
United States—							
Nitrates of potash and soda, crude ..	30,840	12,743	17,667	8,399	—	3,929	(a)
Nitrate of soda ..	545,133	686,727	650,960	629,617	753,396	466,627	493,533
Nitrate of lime ..	—	—	—	4	—	(a)	7,900
Ammonium sulphate ..	31,356	47,625	89,131	92,525	106,152	90,677	101,962
Ammonium chloride ..	331	189	108	—	2,637	328	369
Ammonium nitrate ..	—	92,396	50,136	(b) 219	585	967	88,786
Ammonium phosphates	55,430	25,521	39,274	82,092	70,199	81,351	93,919
Cyanamide ..	128,462	80,357	112,173	90,970	125,944	145,619	137,289
Argentina—							
Nitrate of potash ..	95	248	87	168	(a)	(a)	(a)
Nitrate of soda ..	7,188	7,425	15,170	33,261	13,785	12,572	
Ammonium sulphate ..	—	50	97	—	—	309	
Liquid ammonia ..	6	6	10	—	19	21	
Anhydrous ammonia ..	14	1	—	—	—	44	
Brazil (total imports)—							
Nitrate of potash ..	203	789	828	1,364	956	676	(a)
Nitrate of soda ..	13,946	33,935	14,911	42,217	29,874	34,905	69,358
Ammonium nitrate ..	34	—	—	18	45	10	(a)
Ammonium sulphate ..	1,598	155	—	29	437	864	(a)
Cyanamide ..	630	98	—	177	31	137	(a)
Liquid ammonia ..	266	125	105	113	157	253	(a)
Chile—							
Ammonium chloride ..	568	83	633	64	214	261	(a)
Ammonium sulphate ..	5	1	21	73	3	4	
Ammonium nitrate ..	1,371	2,745	3,349	4,145	5,003	3,248	
Liquid ammonia ..	22	25	14	21	19	3	
Anhydrous ammonia ..	105	58	103	57	100	86	
Colombia—							
Nitrate of potash ..	84	63	143	197	79	247	(a)
Nitrate of soda ..	310	291	1,450	492	2,367	2,287	
Ammonium chloride ..	6	3	15	(a)	17	6	
Ammonium sulphate ..	18	43	201	(a)	212	7	
Peru—							
Nitrate of soda (c) ..	6,594	30,239	39,690	24,358	27,971	36,625	(a)
Liquid ammonia ..	104	49	112	125	102	103	(a)
Uruguay—							
Nitrate of potash ..	(a)	(a)	167	147	(a)	(a)	(a)
Ammonium sulphate ..	(a)	(a)	(a)	88			
Ammonium chloride ..	(a)	(a)	(a)	(a)			
Liquid ammonia ..	(a)	(a)	(a)	(a)			
Venezuela—							
Nitrate of potash ..	29	45	59	—	(a)	(a)	(a)
Liquid ammonia ..	8	14	9	—	(a)	(a)	(a)
China—							
Nitrate of potash ..	(a)	(a)	(a)	(a)	(a)	214	170
Nitrate of soda ..						370	2,395
Ammonium sulphate ..						3,923	28,794

(a) Information not available.

(b) Excess of re-exports.

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

IMPORTS OF NITROGEN COMPOUNDS (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Japan (total imports)—							
Nitrate of soda	34,447	—	—	—	—	(a)	(a)
Ammonium sulphate	122,042	93,500	69,879	2,953	39,368	(a)	(a)
Ammonium nitrate	(a)	(a)	(a)	(a)	(a)	(a)	221,079
Netherlands East Indies—							
Nitrate of soda	(b) 33,476	}	(a)	(a)	(a)	(a)	(a)
Ammonium sulphate	(b) 5,331						
Ammonium chloride	(b) 188						
Syria and Lebanon—							
Nitrates	—	992	2,055	2,159	2,168	3,370	(a)
Ammonium chloride	6	33	38	22	32	73	(a)
Liquid ammonia	—	4	98	8	9	1	(a)
Turkey—							
Nitrate of soda	(a)	(a)	(a)	45	77	—	984
Ammonium chloride	(a)	(a)	(a)	127	16	—	125
Ammonium sulphate	(a)	(a)	(a)	—	671	890	135
Cyanamide	(a)	(a)	(a)	—	370	—	—
Di-ammonium phosphate	(a)	(a)	(a)	—	1,385	—	—

(a) Information not available.

(b) January to October only.

PETROLEUM AND ALLIED PRODUCTS

PRODUCTION OF CRUDE PETROLEUM *

(Long tons)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Crude petroleum ..	30,291	81,523	112,811	94,607	71,600	55,399	47,255
Shale oil ..	130,726	149,123	144,531	133,966	116,186	111,775	97,232
Union of South Africa							
(Shale oil) (d) ..	16,800	25,000	24,200	24,200	25,400	22,700	29,200
Canada (b) ..	1,282,764	1,311,999	1,272,443	1,278,405	1,073,772	960,197	966,102
Barbados ..	309	303	270	93	248	140	44
Trinidad (b) ..	2,929,426	3,152,740	3,055,034	3,090,709	3,013,229	2,890,377	2,931,508
Bahrein Islands ..	910,009	836,111	879,929	899,432	980,014	1,073,870	1,262,336
Brunei ..	610,800	(g)(i) 400,000	(g)(i) 600,000	(g)(i) 800,000	(g)(i) 295,000	285,496	1,700,231
Burma (b) ..	1,112,984	(a)	(a)	(a)	37,000	—	11,500
India (b) ..	391,703	377,359	369,571	376,267	319,288	296,340	302,946
Sarawak ..	106,300	(j)	(j)	(j)	(j)	(a)	24,500
New Zealand ..	383	352	300	300	372	333	—
Total ..	7,522,000	6,400,000	6,500,000	7,000,000,	5,932,000	5,700,000	7,373,000
FOREIGN COUNTRIES							
Albania ..	150,104	153,325	109,048	—	110,000	120,000	180,000
Austria ..	614,046	853,970	1,077,822	1,184,434	446,534	832,338	(g) 770,000
Czechoslovakia ..	26,000	39,000	29,000	26,000	25,400	23,300	36,600
France ..	59,135	64,166	66,254	61,400	27,941	50,800	48,400
Germany ..	883,391	745,350	716,391	700,209	533,329	(e) 639,207	(e) 567,506
Hungary (c) ..	415,000	654,695	824,480	797,177	645,418	650,207	560,700
Italy (c) ..	12,225	12,960	10,000	10,000	10,000	10,611	10,296
Netherlands ..	—	—	209	1,749	5,759	61,657	209,300
Poland ..	415,000	373,000	395,000	344,000	102,461	114,898	126,212
Roumania ..	5,367,000	5,576,000	5,190,000	3,469,300	4,606,000	4,189,767	3,736,393
U.S.S.R. (f)(g) ..	33,500,000	31,200,000	35,000,000	18,000,000	20,000,000	22,000,000	27,000,000
Yugoslavia ..	4,287	11,774	24,297	33,001	(g) 30,000	(g) 36,000	(g) 36,000
Algeria ..	305	276	226	557	253	182	128
Egypt ..	1,201,280	1,163,145	1,264,672	1,331,575	1,328,160	1,262,053	1,312,542
Morocco (French) ..	5,842	5,253	4,962	4,113	3,350	2,534	2,850
Cuba ..	21,394	19,918	13,624	14,534	18,652	19,727	21,832
Mexico (b) (k) ..	6,063,937	4,903,488	4,952,594	5,380,710	6,312,151	6,632,850	8,026,400
United States (b) ..	192,086,027	189,951,370	206,248,356	229,849,863	234,747,260	237,525,890	254,261,233
Argentina (h) ..	3,094,615	3,337,242	3,497,789	3,406,412	3,216,600	2,924,600	3,071,400
Bolivia ..	33,045	42,756	47,017	44,179	53,712	51,044	53,107
Brazil ..	355	4,250	6,140	7,440	10,160	8,600	12,410
Colombia (b) ..	3,458,185	1,477,091	1,867,756	3,189,785	3,209,200	3,152,767	3,152,314
Ecuador ..	222,400	325,400	330,700	413,000	355,163	315,563	323,623
Peru ..	1,558,243	1,782,354	1,917,605	1,883,547	1,798,543	1,612,795	1,674,410
Venezuela ..	32,841,838	21,455,360	25,977,866	37,223,435	46,834,474	56,258,426	62,979,666

* Excluding Natural Gasoline. See page 204.

(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, Cuba 7.5, Mexico 7.1, United States 7.3, Bolivia 7.1, Colombia 7.1, Venezuela 6.95, Netherlands East Indies 7.5.

(c) Including shale oil.

(d) Years ended June 25 of that stated.

(e) British and U.S. Zones.

(f) Including Sakhalin.

(g) Estimated.

(h) Converted from cubic metres at rate of 1 cubic metre = .8843 long tons.

(i) Including Sarawak.

(j) Included with Brunei.

(k) Figures revised. Conversion rate amended to 7.1 barrels to 1 ton from 6.6 barrels to 1 ton.

PRODUCTION OF CRUDE PETROLEUM (Cont.)

Producing Country	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
China	10,750	36,260	55,400	62,600	60,100	65,600	52,400
Formosa	8,756	6,716	5,366	5,558	509	2,000	2,600
Iran	6,605,320	9,399,231	9,705,769	13,274,243	16,839,490	19,189,551	20,192,419
Iraq	1,589,627	2,622,587	3,591,595	4,180,539	4,816,156	4,712,235	4,759,387
Japan	269,000	230,000	247,000	226,000	210,200	186,600	178,300
Kuwait	—	—	—	—	—	797,350	2,815,143
Netherlands East Indies (b)	7,126,888	2,650,000	5,321,000	3,762,000	1,065,000	306,069	1,197,425
Saudi Arabia	574,670	604,000	649,000	1,039,000	2,841,500	7,992,250	11,980,260
TOTAL	298,193,000	280,000,000	310,000,000	330,000,000	350,255,000	371,686,000	410,000,000
WORLD'S TOTAL	305,715,000	286,000,000	315,600,000	336,600,000	356,187,000	377,386,000	417,400,000

(a) Information not available.

(b) For conversion rate for 1942 to 1947 see footnote (b) on previous page.

PRODUCTION OF NATURAL GASOLINE

(Long tons)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Trinidad (c)	24,890	22,390	20,680	21,020	20,680	21,250	20,570
India	597	502	345	(a)	(a)	(a)	(a)
FOREIGN COUNTRIES							
Poland	(a)	(a)	(a)	(a)	(a)	3,623	9,984
Roumania	195,002	191,283	187,050	136,811	136,800	128,810	113,689
Cuba	18,400	17,100	11,700	10,800	(a)	(a)	(a)
United States	9,278,000	9,561,000	10,066,000	11,481,000	12,853,000	13,282,000	15,148,000
Argentina	12,852	12,212	12,239	(a)	(a)	(a)	(a)
Ecuador	3,300	4,200	3,900	(a)	4,800	4,700	(a)
Peru.. .. .	96,171	104,110	107,798	107,537	109,882	106,468	104,114
WORLD'S TOTAL (b)	9,625,000	9,910,000	10,400,000	11,770,000	14,150,000	13,570,000	15,420,000

(a) Information not available.

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

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

PRODUCTION OF NATURAL GAS*

(Million cubic feet)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Union of South Africa	(a)	(a)	(a)	(a)	(a)	(a)	9
Canada	43,495	45,697	44,276	45,067	48,412	47,900	53,310
Brunei	1,047	(a)	(a)	(a)	(a)	(c) 1,000	8,933
FOREIGN COUNTRIES							
France	11	114	1,631	2,322	3,015	3,899	5,170
Germany (British Zone) ..	(a)	(a)	(a)	(a)	(a)	3,860	2,750
Hungary	1,356	1,723	2,500	1,547	(e) 1,420	3,221	3,560
Italy	1,489	1,919	(d) 989	(a)	(a)	2,264	3,285
Poland	29,347	31,077	33,549	6,554	4,590	5,153	5,236
Roumania	43,465	52,760	50,317	32,885	46,065	47,844	(a)
Mexico	33,902	32,165	28,986	25,723	26,910	27,122	35,258
United States	3,812,658	3,053,475	3,414,689	3,711,039	3,918,686	4,095,000	4,444,693
Argentina	20,945	23,866	23,893	(a)	(a)	(a)	(a)
Uruguay	241	145	98	132	111	150	104
China (b)	(a)	5	5	5	5	2,157	1,928

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.

* The figures represent only that part of the gas produced which is actually utilized.

(a) Information not available.

(b) Partial production only.

(c) Estimated.

(d) January to June only.

(e). July to December only.

PRODUCTION OF NATURAL ASPHALT, ETC.

(Long tons)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Barbados (exports of manjak)	63	41	18	22	9	—	—
Trinidad	80,540	63,409	84,701	71,877	63,118	93,851	87,346
FOREIGN COUNTRIES							
Albania (estimated) ..	(a)	(a)	(a)	(a)	(a)	9,000	14,000
Italy	751	(a)	(a)	(a)	(a)	(a)	(a)
Poland (ozokerite) ..	(a)	364	639	—	—	(a)	(a)
Spain	5,905	3,840	9,050	6,200	9,800	2,560	(a)
French Equatorial Africa—							
Bitumen	—	—	—	—	344	—	—
French West Africa—							
Bitumen	(a)	(a)	159	118	133	—	—
Cuba (c)	4,642	11,571	44,000	39,000	(b) 8,927	2,048	(a)
Mexico (exports)	(a)	(a)	—	6,806	2,085	429	(a)
United States (sales)—							
Gilsonite	32,506	36,644	45,041	43,796	54,708	61,078	59,969
Wurtzilite	62	33	37	10	—	21	15
Argentina—							
Rafaelite	2,486	1,952	550	1,824	1,471	(a)	(a)
Asphaltite	16,383	55,496	103,958	97,000	124,100	82,500	81,800
Iraq	(a)	(a)	2,205	(a)	(a)	(a)	(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) Partial production only. Complete information not available.

(c) U.S. Bureau of Mines.

PRODUCTION OF ASPHALT ROCK

(Long tons)

Producing Country	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES							
France	25,914	27,253	18,031	13,857	13,768	31,244	(a)
Italy	199,482	264,230	(a)	(a)	(a)	201,246	245,838
Spain	71,256	85,566	96,816	99,232	99,574	106,129	67,745
Switzerland (exports)	79	1	—	—	5	238	702
Angola	1,856	2,498	4,645	4,393	6,159	7,340	7,294
United States (sales)	584,546	835,085	746,114	661,120	573,750	694,158	897,089
Netherlands East Indies	8,000	(a)	(a)	(a)	(a)	2,408	195
Syria	10,300	34,000	17,300	(a)	(a)	(a)	(a)

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 OIL-SHALE

(Long tons)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Great Britain	1,631,843	1,784,247	1,759,215	1,609,363	1,398,202	1,316,533	1,110,817
Union of South Africa (b)	81,213	109,849	116,254	112,527	119,275	111,891	165,816
Australia	123,754	117,324	116,875	137,458	123,170	121,654	138,427
FOREIGN COUNTRIES							
France	182,816	191,241	258,433	218,081	222,248	340,043	387,536
Italy	48,729	52,080	(a)	(a)	(a)	(a)	(a)
Sweden (c)	403,079	1,089,112	1,648,984	2,325,847	1,751,282	1,843,937	1,326,960

NOTE.—Oil-shale is also produced in Germany, Spain, 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	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom*—							
Motor spirit	173,900	282,200	324,100	481,500	435,900	487,900	328,700
Other spirit	65,200	45,300	42,200	46,300	44,900	71,900	72,100
Kerosene	29,300	6,400	3,600	2,500	4,700	38,000	101,900
Gas oil and diesel oil ..	328,100	161,300	172,000	185,600	205,700	480,800	443,100
Fuel oil	124,000	187,500	146,000	168,000	192,600	589,000	802,300
Lubricating oil	108,000	155,000	210,000	230,000	253,800	312,600	343,700
Bitumen	339,259	243,108	173,008	254,050	278,621	459,529	433,068
Paraffin wax	13,379	14,496	14,269	13,494	11,097	11,910	15,228
Canada*—							
Aviation spirit	} 2,812,867	288,302	302,563	340,519	60,873	25,385	28,977
Motor spirit		} 2,159,179	2,455,019	2,798,943	3,061,777	3,310,244	3,493,187
Solvent naphtha	47,235	81,667	97,039	107,587	108,133	96,819	105,716
Kerosene, etc.	181,933	179,906	206,641	205,875	264,673	430,782	343,921
Gas oil	520,856	543,060	506,845	451,942	488,482	729,299	982,988
Fuel oil	2,487,796	2,561,536	2,585,516	2,763,249	2,684,093	2,689,658	751,830
Diesel oil	309,077	309,846	444,208	359,462	455,844	507,680	711,853
Tractor oil	159,415	174,516	154,036	164,554	144,007	146,784	138,281
Lubricating oil	146,109	152,551	158,975	191,078	205,735	226,881	242,093
Grease	6,948	9,319	9,559	9,422	8,997	10,273	13,521
Coke	63,250	65,546	76,171	65,008	59,660	62,156	69,754
Asphalt	330,976	250,299	208,671	286,920	315,013	415,431	580,123
Barbados—							
Motor spirit	450	380	270	320	291	(a)	(a)
Kerosene	610	540	370	450	500	(a)	(a)
Fuel oil	3,820	3,250	1,660	2,060	1,790	(a)	(a)
Bahrein Islands—							
Aviation spirit	—	—	—	—	67,897	17,654	2,935
Motor spirit	408,341	378,673	406,148	418,165	605,854	894,652	1,198,529
Kerosene	215,686	225,828	236,555	206,860	303,528	505,311	726,895
Diesel oil	160,530	186,689	178,323	342,583	583,483	867,166	944,974
Fuel oil, etc.	258,023	293,029	253,391	305,750	858,825	1,793,629	2,776,980
India—							
Assam—							
Motor spirit	41,771	47,192	74,760	86,628	75,208	60,826	53,791
Kerosene	125,808	79,023	61,398	59,799	38,172	50,851	49,662
Batching oil	8,223	18,335	22,453	13,831	2,013	1,293	2,012
Other oils	30,100	49,800	57,136	96,973	86,713	76,280	86,732
Paraffin wax	4,471	21,054	29,965	29,354	31,826	32,677	35,624
Punjab—							
Motor spirit	41,694	36,994	23,309	12,606	7,783	7,097	} (a)
Kerosene	15,780	16,089	10,732	5,433	2,226	1,826	
Diesel oil	1,859	2,353	2,054	3,112	2,407	1,578	
Fuel oil	25,296	23,296	8,929	6,803	3,833	3,605	
Lubricating oil	9,566	11,614	13,833	11,623	8,571	3,945	
Greases	176	73	140	227	215	293	
Paraffin wax	96	64	92	99	18	79	
Australia (b)—							
Motor spirit	} (a)	(a)	(a)	39,323	21,665	25,949	81,766
Kerosene				453	765	(a)	(a)
Fuel oil				4,948	(a)	(a)	(a)
Lubricating oil				9,156	6,044	5,938	10,657
Grease				7,143	4,506	3,719	4,735

* See note on page 213. The conversion factor for Aviation spirit has been amended to 315 gallons to 1 ton from 300 gallons to 1 ton. Figures have been revised where necessary.

(a) Information not available.

(b) Years ended June 30 of year stated.

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

Producing Country	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES							
Belgium—							
Motor spirit	(a)	(a)	(a)	(a)	(a)	6,000	21,200
Kerosene						4,000	8,100
Fuel oil, etc.						31,000	72,700
Lubricating oil						5,000	5,000
Asphalt						34,000	(a)
Denmark—							
Gas oil	(a)	(a)	(a)	(a)	(a)	(a)	200
Diesel oil	(a)	(a)	(a)	(a)	(a)	(a)	6,100
Lubricating oil	3,050	2,560	4,130	4,212	4,763	8,542	9,940
Grease	295	200	237	217	197	656	790
France—							
Motor spirit	25,100	20,000	4,900	1,275	72,800	737,000	1,280,300
Kerosene and white spirit	4,600	10,000	11,200	10,979	3,720	101,510	195,558
Gas oil	3,500	3,100	1,132	—	39,400	421,693	598,745
Fuel oil	22,600	3,050	890	—	124,000	880,284	1,811,008
Lubricating oil	3,050	5,300	3,200	—	866	67,310	172,423
Road oil	700	2,200	2,560	1,058	2,460	—	(a)
Paraffin wax	600	3,800	2,560	684	—	—	(a)
Germany (b)—							
Motor spirit	(a)	(a)	(a)	(a)	(a)	87,400	70,800
Diesel oil						95,700	77,200
Lubricating oil						144,100	161,700
Hungary—							
Motor spirit	(a)	(a)	(a)	(a)	(a)	200,000	(a)
Kerosene						121,000	(a)
Gas oil						97,000	(a)
Fuel oil						155,000	(a)
Lubricating oil						4,000	(a)
Italy—							
Motor spirit	72,872	(a)	(a)	(a)	(a)	(a)	296,026
Kerosene	7,889						122,120
Gas oil	11,030						304,107
Fuel oil	119,336						458,852
Lubricating oil	27,824						6,064
Paraffin wax	1,525						(a)
Coke	1,022						18,728
Bitumen	3,035						38,703
Other products	7,861	19,482					
Poland—							
Motor spirit	26,948	26,614	27,212	3,082	(a)	33,796	46,582
Kerosene	(a)	(a)	(a)	(a)	(a)	17,150	29,138
Gas oil and light oils						29,562	33,303
Lubricating oil						19,279	28,073
Greases						2,182	3,393
Paraffin wax						8,268	8,138
Petroleum jelly						627	564
Asphalt						9,391	3,466
Coke	1,231	1,719					
Roumania—							
Motor spirit	1,393,600	1,446,800	1,394,000	845,327	1,322,096	1,085,793	1,068,687
White spirit	182,000	181,000	177,000	79,000	98,000	65,000	14,130
Kerosene	496,542	502,962	480,645	298,417	450,549	514,662	460,719
Gas oil (c)	883,473	748,109	608,365	384,933	579,874	507,000	443,285
Fuel oil (c)	1,521,134	1,600,321	1,563,369	1,059,515	1,729,809	1,456,000	1,262,992
Lubricating oil	102,000	156,000	140,000	68,000	95,603	100,000	81,237
Paraffin wax	12,608	12,000	7,200	3,000	4,200	4,900	6,995
Coke	31,979	8,713	15,730	5,882	3,468	4,900	8,774
Asphalt	75,990	117,466	92,926	42,368	33,534	49,000	35,982
Other products	53,261	27,016	38,955	40,356	36,196	8,722	14,198

(a) Information not available.

(c) Excluding the amounts used at the refineries.

(b) British and American Zones only.

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

Producing Country	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Sweden—							
Motor spirit	10,512	20,486	3,767	18,285	25,647	58,216	54,846
Kerosene	758	23	—	2,942	5,379	7,156	12,612
Fuel oil, etc.	4,206	21,442	40,138	44,039	63,744	373,346	384,219
Lubricating oil	27	2,293	2,526	3,043	2,728	5,802	8,791
Asphalt	88	78	234	1,550	2,693	17,730	29,502
Canary Islands—							
Motor spirit	100,000	25,000	46,000	45,000	60,000	145,000	185,000
Kerosene	20,000	5,000	10,000	10,000	15,000	20,000	20,000
Gas oil	40,000	10,000	20,000	15,000	20,000	50,000	55,000
Fuel oil	150,000	37,000	50,000	46,000	60,000	200,000	200,000
Asphalt	3,000	3,000	3,000	3,000	3,000	10,000	10,000
Egypt—							
Motor spirit	154,386	164,068	166,945	182,586	180,805	193,225	193,000
Kerosene	59,989	57,015	60,368	64,415	66,852	65,845	70,509
Gas oil	787,057	700,980	713,431	832,061	803,010	749,567	697,000
Fuel oil							
Diesel oil							
Asphalt	119,461	150,367	145,694	170,099	170,099	173,356	138,312
Morocco (French)—							
Motor spirit	2,608	2,036	3,194	1,492	1,224	703	755
Kerosene	507	468	459	230	158	71	181
Diesel oil, fuel oil, etc.	3,717	2,782	4,356	2,236	1,867	1,087	1,725
Cuba—							
Motor spirit	(a)	(a)	(a)	(a)	(a)	56,200	61,500
Turpentine substitute	(a)	(a)	(a)	(a)	(a)	1,000	—
Kerosene	(a)	(a)	(a)	(a)	(a)	27,500	34,700
Gas oil and diesel oil	(a)	(a)	(a)	(a)	(a)	58,800	62,800
Lubricating oil	(a)	(a)	(a)	(a)	(a)	10,600	21,900
Asphalt	(b) 4,642	11,571	44,000	39,000	(a)	27,600	29,700
Mexico—							
Motor spirit	1,643,000	1,610,000	1,666,000	1,745,000	1,877,000	2,069,000	2,557,000
Kerosene	318,000	344,000	409,000	464,000	550,000	607,000	714,000
Fuel oil	2,928,000	2,650,000	2,895,000	3,211,000	3,439,000	3,757,000	4,414,000
Gas oil	577,000	598,000	673,000	670,000	685,000	768,000	652,000
Lubricating oil	26,000	34,000	43,000	51,000	49,000	46,000	52,000
Paraffin wax	12,000	10,000	14,000	20,600	27,800	26,400	25,400
Asphalt	106,000	92,000	164,000	135,000	174,000	360,000	292,000
United States*—							
Aviation spirit	2,344,000	60,313,000	11,803,000	21,809,000	16,933,000	2,824,000	81,232,000
Motor spirit	68,777,000		47,502,536	50,826,000	61,255,000	72,918,000	
Kerosene	9,238,200	8,587,600	9,198,000	9,971,000	10,312,000	13,285,000	14,052,000
Gas oil and fuel oil distil-							
lates	26,484,800	27,540,000	29,612,200	33,481,300	34,891,400	40,305,400	43,704,200
Residual fuel oil	49,928,500	52,339,700	60,857,100	67,295,500	68,467,600	62,907,200	65,303,400
Lubricating oil	5,535,500	5,407,600	5,415,100	5,754,800	5,861,400	6,390,300	7,247,100
Paraffin wax	299,125	312,750	337,125	360,375	365,125	375,375	453,000
Coke	1,472,100	1,195,000	1,239,600	1,610,200	1,806,200	1,896,600	2,156,600
Asphalt	5,855,000	5,621,900	6,032,800	6,246,500	6,363,000	7,290,700	8,001,000
Road oil	1,280,900	1,125,500	312,300	217,800	376,000	865,000	990,800
Netherlands West Indies—							
Aviation spirit	314,000	505,000	948,000	1,015,000	779,000	409,000	508,000
Motor spirit	3,312,000	2,046,000	2,167,000	2,316,000	3,131,000	4,194,000	4,295,000
Kerosene	686,000	566,000	1,000,000	726,000	659,000	1,197,000	1,462,000
Gas oil	418,000	737,000	950,000	546,000	1,148,000	2,164,000	2,113,000
Fuel oil	11,970,000	8,368,000	12,215,000	17,562,000	19,771,000	19,632,000	22,245,000
Diesel oil	2,028,000	907,000	1,035,000	1,398,000	1,642,000	1,943,000	2,317,000
Lubricating oil	127,000	226,000	202,000	91,000	61,000	194,000	132,000
Asphalt	100,857	33,619	1,462	107,352	169,000	114,000	211,000

* See note on page 213.

(a) Information not available.

(b) Exports.

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

Producing Country	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Argentina—							
Aviation spirit	10,344	9,687	11,266	12,921	10,406	11,663	8,660
Motor spirit	958,202	936,014	862,839	799,069	748,721	954,872	1,075,764
Solvent naphtha, etc. ..	16,038	16,674	18,330	(a)	(a)	(a)	(a)
Kerosene.. ..	164,737	150,840	164,284	285,920	291,920	427,600	445,600
Fuel oil	1,472,692	1,483,094	1,598,382	1,470,229	1,466,906	1,392,196	1,515,216
Gas oil	92,531	86,814	75,629	52,292	49,838	66,931	69,300
Diesel oil, etc.	429,801	392,047	355,177	228,766	207,109	276,203	284,797
Lubricating oil	65,460	78,844	79,234	87,032	82,192	76,120	86,856
Grease	4,604	3,971	3,780	(a)	(a)	(a)	(a)
Paraffin wax	25	174	335	(a)	(a)	(a)	(a)
Asphalt	63,232		64,487	(a)	(a)	(a)	(a)
Coke	88,589		92,275	(a)	(a)	(a)	(a)
		} 136,439	{				
Bolivia—							
Motor spirit	13,109	13,882	12,098	11,022	13,015	12,623	15,518
Kerosene.. ..	1,500	2,200	2,550	1,720	2,688	3,044	3,146
Fuel oil	14,850	13,800	11,276	9,330	17,467	10,354	11,836
Diesel oil	1,400	2,450	1,720	1,820	2,670	2,414	2,855
Brazil—							
Motor spirit	16,634	11,037	5,210	11,357	(a)	14,575	14,087
Other spirit	2,121	2,753	2,684	4,291	(a)	(a)	(a)
Kerosene.. ..	6,421	3,845	2,850	4,376	(a)	6,950	4,843
Gas oil	(a)	(a)	(a)	(a)	(a)	2,831	1,414
Diesel oil	6,886	6,002	5,806	11,771	(a)	8,665	10,438
Fuel oil	3,755	2,896	3,198	7,066	(a)	13,363	14,150
Lubricating oil	1,020	602	636	935	(a)	404	529
Colombia—							
Motor spirit	126,963	115,909	115,399	128,233	130,000	141,000	196,000
Other spirit	678	856	1,214	1,514	1,900	2,500	2,200
Kerosene.. ..	19,818	17,190	21,793	22,419	23,000	23,000	31,000
Gas oil	6,281	1,733	4,047	6,088	6,000	5,000	7,000
Fuel oil	233,753	217,773	282,480	387,126	451,000	484,000	760,000
Diesel oil	19,977	25,074	23,952	26,589	27,000	31,000	42,000
Lubricating oil	10,893	4,248	4,002	5,098	5,000	7,000	6,000
Asphalt	14,305	11,892	8,579	14,124	10,000	15,000	20,000
Ecuador—							
Motor spirit	17,737	19,889	22,255	25,590	33,000	33,365	45,300
Kerosene.. ..	4,852	6,168	7,504	7,466	9,000	9,792	11,600
Diesel oil	8,574	9,363	12,527	14,540	18,000	16,208	26,400
Gas oil	193	227	184	166	130	223	} 840
Lubricating oil	366	341	443	541	280	340	
Residuum	50,727	58,700	69,600	68,700	68,000	83,600	85,000
Peru—							
Motor spirit	352,082	520,538	489,572	463,315	442,855	393,973	411,191
Kerosene.. ..	65,748	68,158	96,200	132,418	125,689	109,961	95,286
Diesel oil	95,764	304,588	343,194	371,334	426,482	409,171	440,430
Fuel oil	552,275	948,813	988,903	887,549	785,309	514,096	421,010
Lubricating oil	5,500	5,729	8,793	5,390	7,489	8,017	9,924
Coke	276	73	100	95	52	179	221
Asphalt	14,025	11,535	10,617	11,548	8,954	5,935	11,551
Uruguay—							
Motor spirit	88,000	62,000	45,000	47,374	60,312	91,184	93,245
Kerosene.. ..	41,000	34,000	22,000	26,058	34,526	53,709	62,145
Gas oil	23,451	17,415	19,575	22,028	26,137	30,432	32,834
Fuel oil	102,930	55,466	57,158	51,682	136,903	137,456	193,301
Venezuela—							
Motor spirit	311,000	233,000	288,000	292,000	347,000	443,000	450,000
Kerosene.. ..	50,000	38,000	45,000	52,000	63,000	72,000	92,000
Gas oil		156,000	41,000	15,000	8,000	246,000	6,000
Fuel oil	} 3,607,000	{ 2,151,000	2,030,000	2,442,000	3,335,000	3,304,000	3,563,000
Diesel oil			572,000	747,000	734,000	736,000	937,000
Asphalt	—	—	—	—	—	—	25,000

(a) Information not available.

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

Producing Country	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Iran—							
Aviation spirit	140	350	481	952	888	} (a)	(a)
Motor spirit	849	1,205	1,631	2,062	2,417		
Kerosene, etc.	367	692	720	857	1,157		
Diesel oil	1,203	2,236	1,981	2,502	3,069		
Fuel oil	3,034	4,067	3,859	5,764	8,038		
Asphalt	87	116	116	221	180		
Iraq (b)—							
Motor spirit	48,103	63,211	37,034	41,389	} (a)	(a)	(a)
Kerosene	37,450	41,646	47,184	52,441			
Gas oil	(a)	(a)	(a)	(a)			
Fuel oil	107,676	104,568	122,490	160,390			
Japan—							
Aviation spirit	220,525	250,477	229,785	187,361	1,040	—	—
Motor spirit	215,677	162,684	201,102	74,310	31,339	21,498	19,006
Kerosene	88,809	70,111	65,868	63,804	31,101	20,139	20,407
Gas oil	84,927	68,023	88,034	76,389	13,950	7,259	9,412
Diesel oil	638,994	531,395	523,723	283,686	75,108	62,167	34,997
Fuel oil	555,141	654,899	710,597	209,570	21,591	9,987	594
Lubricating oils	184,800	299,997	271,119	151,329	49,584	42,805	35,541
Other oils	86,477	80,785	57,049	15,247	15,331	18,879	18,098
Lebanon—							
Motor spirit	21,742	28,063	34,926	38,075	44,076	46,110	48,754
Kerosene	6,750	15,660	17,978	23,346	23,636	26,833	26,997
Gas oil	13,048	15,220	18,122	22,142	28,000	29,180	32,879
Fuel oil	53,010	76,049	86,874	103,403	116,853	118,091	128,785
Netherlands East Indies—							
Aviation spirit	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Motor spirit	(a)	(a)	(a)	(a)	(a)	(a)	339,000
Kerosene	(a)	(a)	(a)	(a)	(a)	(a)	205,000
Fuel oil, solar oil and diesel oil	(a)	(a)	(a)	(a)	(a)	(a)	981,000
Asphalt	(a)	(a)	(a)	(a)	(a)	(a)	10,700

(a) Information not available.

(b) Years ended March 31 of that following.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS*

(Domestic Produce)

(Long tons)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Aviation spirit (bunkers) (b)	248	130	250	102	429	5,994	(a)
Motor spirit	1,810	240	79	18,366	1,613	6,271	78,340
Other spirit	548	342	261	288	1,148	7,765	1,818
Kerosene	161	32	11	18	58	500	4,036
Gas oil	3,188	810	—	—	—	8,329	44,601
Diesel oil	(c)	(c)	(c)	(c)	(c)	18	9
Fuel oil	2,790	2,491	361	1,401	1,016	1,417	45,685
do. (bunkers) (b)	861,000	1,228,109	1,253,013	1,801,766	1,739,963	1,683,192	(a)
Lubricating oil	13,689	6,507	3,689	5,925	16,362	135,623	116,775
Other refined oils	216	105	27	41	133	1,288	2,267
Mineral jelly	98	6	11	6	40	474	113
Paraffin wax	127	83	313	4	933	577	3,536
Malta—							
Gas oil (bunkers) (b)	(a)	(a)	(a)	(a)	(a)	367	2,272
Fuel oil (bunkers) (b)	(a)	(a)	(a)	(a)	(a)	4,751	11,119
Gold Coast (d)—							
Motor spirit (bunkers)	(a)	(a)	(a)	1,219	214	19	(a)
Fuel oil (bunkers)	2,448	9,290	26,805	26,862	14,796	14,491	(a)
Kenya and Uganda (bunkers) (b)—							
Motor spirit	460	511	759	502	358	1,121	4,060
Kerosene	16	14	10	10	7	5	6
Fuel oil	176,837	203,587	130,821	50,930	29,387	101,350	84,728
Lubricating oil	178	176	152	111	94	98	136
Sierra Leone (bunkers)—							
Lubricating oil (b)	124	119	91	135	60	(a)	—
Union of South Africa—							
Fuel oil (bunkers) (b)	(a)	(a)	(a)	(a)	224,504	(a)	(a)
Asphalt and bitumen	951	318	563	173	105	(a)	(a)
Canada—							
Crude petroleum	42	75	—	—	—	—	35
Motor spirit	51,945	50,487	53,496	74,811	186,311	33,052	23,300
Kerosene, etc.	3,685	3,357	3,653	3,768	24,015	10,837	342
Fuel oil	76,957	212,311	227,863	194,979	135,899	84,490	113,028
Lubricating oil	7,716	12,070	8,803	2,791	3,788	17,895	12,049
Other oils				1,863	575	848	1,605
Mineral wax	3	37	2	51	817	5,676	19,413
Petroleum coke	28,092	47,393	50,599	24,200	19,875	13,018	24,480
Newfoundland (f)—							
Fuel oil (bunkers) (e)	5,558	4,685	7,349	155,495	38,166	20,257	27,816
British Guiana (b)—							
Crude petroleum (bunkers)	259	145	44	—	9	—	—
Aviation spirit (bunkers)	46	103	213	170	50	—	—
British West Indies—							
Barbados—							
Manjak	63	41	18	22	9	—	—
Jamaica—							
Bunkers (b)—							
Aviation spirit	—	—	—	—	2,863	3,015	(a)
Motor spirit	463	651	1,199	1,367	—	9	(a)
Gas oil (e)	3,237	9,050	(a)	43	7,617	24	(a)
Diesel oil (e)	7,976	2,226	2,815	19,732	12,242	16,030	(a)
Fuel oil (e)	72,414	(a)	13,967	15,729	11,883	19	(a)

* 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.

(a) Information not available.

(c) Included with Fuel oil.

(b) Foreign produce. See imports.

(d) Foreign produce. Excluded from imports.

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

(f) Year ended June 30 of year following for 1941 and ended March 31 subsequently.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES (cont.)							
British West Indies (cont.)—							
Trinidad and Tobago—							
Crude petroleum ..	22,996	124	235	44	23	12,869	125,911
Motor spirit ..	467,375	424,709	466,721	627,060	152,997	538,807	613,369
do. (bunkers) ..					423,173	4,865	6,952
Kerosene ..	10,166	5,411	5,572	57,435	84,632	387,460	233,849
do. (bunkers) ..					97,578	67	137
Gas oil ..	21,725	30,678	20,759	73,624	15,157	101,241	106,479
do. (bunkers) ..					89,963	28,139	42,450
Fuel oil ..	1,052,806	1,306,486	766,322	1,003,656	179,829	507,693	777,339
do. (bunkers) ..	594,608	890,782	920,958	931,000	1,769,335	1,175,161	1,212,682
Lubricating oil ..	35	71	58	26	10	46	248
Road oil ..	12,279	3,697	3,707	3,811	5,214	8,936	7,185
Asphalt—							
Crude ..	227	154	44	227	536	—	41
Dried ..	26,215	11,643	12,204	16,958	9,990	26,563	32,364
Cement ..	9,731	5,529	16,424	14,067	6,551	23,241	24,295
Bituminous ..	13,863	8,186	22,214	4,215	11,351	40,451	26,351
Aden—							
Fuel oil (bunkers) (b) ..	304,745	552,836	484,359	420,337	404,301	694,861	1,112,301
Bahrein Islands—							
Aviation spirit ..	(a)	(a)	(a)	(a)	36,012	46,838	5,407
Motor spirit ..	401,252	389,248	429,267	445,574	576,148	893,762	1,193,854
Kerosene ..	220,143	223,095	230,219	230,077	288,532	507,404	697,114
Diesel oil ..	179,297	179,179	192,983	316,985	571,081	860,019	968,496
Fuel oil ..	268,102	300,997	262,610	323,645	833,048	1,798,609	2,756,799
Brunei—							
Crude petroleum ..	(a)	(a)	(a)	(a)	(a)	184,407	1,689,963
Natural gas (1,000 cubic feet) ..	(a)	(a)	(a)	(a)	(a)	(a)	893,344
British India—							
Crude petroleum (c) ..	6,302	3,151	2,954	(a)	(a)	(a)	(a)
Aviation spirit ..	397	398	355	2,676	7,376	11,336	(d) 13,297
(bunkers) ..							
Motor spirit (c) ..	4,054	2,359	1,962	34	—	—	—
Kerosene (c) ..	224	175	456	(a)	—	—	—
Fuel oil (bunkers) ..	—	274	—	—	—	—	—
(domestic produce) ..							
do. do. (foreign produce) ..	97,627	157,920	181,489	168,296	203,032	185,649	(d) 75,094
Paraffin wax ..	1,694	3,018	14,193	16,370	14,128	16,409	(d) 15,509
Burma—							
Motor spirit ..	143,618	(a)	(a)	(a)	(a)	(a)	(a)
Kerosene ..	454,513						
Lubricating oil ..	73,204						
Other oils ..	9,271						
Paraffin wax ..	48,623						
Ceylon (bunkers) (b)—							
Gas oil ..	151	148	—	—	(a)	—	—
Diesel oil ..	57,771	43,412	46,453	57,639	(a)	54,524	52,096
Fuel oil ..	174,961	143,431	234,061	443,714	(a)	239,560	247,564
Lubricating oil ..	112	137	193	182	—	128	96
Hong Kong (including re-exports)—							
Motor spirit ..	(a)	(a)	(a)	(a)	(a)	49,338	74,506
Kerosene ..	(a)	(a)	(a)	(a)	(a)	79,174	54,143

(a) Information not available.

(b) Foreign produce. See imports.

(c) Includes trade by land as recorded.

(d) January to November only.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES (Cont.)							
Hong Kong (including re-exports)—(Cont.)							
Fuel oil	(a)	(a)	(a)	(a)	(a)	2,401	1,721
do. (bunkers)						(a)	(a)
Diesel oil						24,154	55,020
Lubricating oil						6,022	6,585
Other petroleum oils						(a)	(a)
Greases						109	114
Petroleum jelly						1,386	319
Paraffin wax	1,055	1,891					
Malaya (including re-exports)—							
Motor spirit	(a)	(a)	(a)	(a)	(a)	102,815	136,379
Kerosene						90,320	50,088
Fuel oil						101,038	236,902
do. (bunkers)						(a)	(a)
Lubricating oil						1,714	5,249
Other petroleum products						6	33
Paraffin wax						81	23
Asphalt and bitumen	424	403					
Palestine—							
Motor spirit	(a)	420,235	305,385	258,775	255,246	380,318	(a)
Kerosene	(a)	88,638	145,111	170,400	199,500	265,060	(a)
Fuel oil, gas oil and diesel oil	(a)	168,818	170,801	351,996	900,062	1,616,769	(a)
Asphalt	—	—	4,445	13,492	9,229	21,955	(a)
Sarawak—							
Crude petroleum	(a)	(a)	(a)	(a)	(a)	(c) 219,418	(a)
Motor spirit						(c) 1,591	(a)
Kerosene						(c) 26	(a)
Gas oil						(c) —	(a)
Diesel oil						(c) —	(a)
Fuel oil						(c) —	(a)
Lubricating oil						(c) —	(a)
Australia—							
Crude petroleum	—	—	—	—	16	13	1,948
Motor spirit, etc.	63	556	4,145	37,552	3,210	1,435	690
Kerosene	1	8	113	409	265	512	1,163
Lubricating oil	80	103	82	96	184	643	2,214
Residual and solar oils	101	52	191	7,503	17	77	471
Greases	342	357	44	166	77	282	7,037
Paraffin wax, etc.	105	128	153	75	57	198	82
Fiji—							
Aviation spirit (bunkers)(b)	(a)	(a)	(a)	(a)	(a)	221	2,652
Fuel oil (bunkers) (b)	31,640	39,350	26,446	5,542	3,872	6,370	3,795
New Zealand—							
Fuel oil (bunkers) (b)	47,829	66,367	31,157	35,956	(a)	(a)	(a)
Lubricating oil (bunkers)(b)	451	468	322	(a)	(a)	(a)	(a)
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Crude petroleum	—	—	—	—	(a)	(a)	(d)
Motor spirit	—	—	41	61			
Kerosene	—	—	64	—			

(a) Information not available.

(b) Foreign produce. See imports.

(c) April 15 to December 31 only.

(d) See next page.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Belgium-Luxemburg E.U.							
—(Cont.)							
Gas oil	293	14	188	22	(a)	(a)	763,411
do. (bunkers) (b)							
Fuel oil, etc.	1,027	270	140	19			
do. (bunkers) (b)							
Lubricating oil	—	—	3	—			
do. (bunkers) (b)	27	415	1	—			
Other heavy oils	19	—	—	—			
Petroleum jelly	—	—	—	—			
Paraffin wax	266	190	69	69			
Ozokerite and ceresin	10	—	15	—			
Residual asphalt, etc.							
Czechoslovakia—							
Lubricating oil, etc.	(a)	(a)	(a)	(a)	(a)	1,252	1,261
Paraffin wax							
Asphalt products							
France—							
Crude petroleum	—	1	—	(a)	—	1	84
Motor spirit	27,686	2,054	6	(a)	505	107,054	184,600
Kerosene	3,014	9	4	(a)	—	3,852	46,751
Kerosene, etc.—							
Bunkers (domestic produce)	6,809	1,702	(a)	(a)	(a)	(a)	(a)
Bunkers (foreign produce)	3,072	4,001	(a)	(a)	(a)	(a)	(a)
Lubricating oil	5,932	398	49	77	73	4,507	10,799
Gas oil	120	1,023	408	(a)	603	31,866	61,179
Fuel oil	173	—	—	787	15,462	180,335	250,140
Road oil, etc.	4,019	72	187	(c)	—	8,082	21,578
Heavy and residual oils—							
Bunkers (domestic produce)	79,169	12,884	(a)	(a)	(a)	(a)	(a)
Bunkers (foreign produce)	101,719	12,154	(a)	(a)	(a)	(a)	(a)
Petroleum jelly	5	2	—	(a)	—	22	42
Paraffin wax	32	4	—	6	18	75	372
Ozokerite, ceresin, etc.	21	76	1	154	2	15	19
Petroleum coke, etc.	3	266	285	423	—	624	1,567
Asphalt and bitumen	1,540	190	—	(a)	411	788	2,610
Germany—							
Crude petroleum	84,287	94,124	60,167	2,472	(a)	(a)	(a)
Motor spirit	279,857	353,665	270,118	(c) 128,581			
Kerosene	62,736	67,376	47,781	58,403			
Gas oil	296,274	321,091	278,220	191,602			
Fuel oil	23,811	12,310	2,523	552			
Lubricating oil	33,974	99,076	125,970	72,303			
Paraffin wax	6,119	10,690	7,249	3,657			
Ozokerite, etc.	6,416	6,260	6,090	4,320			
Asphalt	568	8,230	3,613	1,706			
Hungary—							
Crude petroleum	(a)	(a)	(a)	(a)	(a)	34,857	236,700
Kerosene							
Gas oil							
Fuel oil							
Lubricating oil							
						40,473	
						29,889	
						29,458	
						65,962	

(a) Information not available.

(b) Bunkers for foreign ships only.

(c) January to July only.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947				
FOREIGN COUNTRIES (Cont.)											
Italy—											
Motor spirit	12,000	2,000	(b) 2,000	}	(a)	(a)	{				
Kerosene.. ..	(a)	(a)	(a)					103			
Lubricating oil	1,000	6,000	(b) 3,000					3			
Gas oil	2,000	—	—					6			
Fuel oil	400	1,000	—					1,642			
Paraffin wax	1	35	(b) 2					(a)			
Asphalt and bitumen	155	867	(b) 197					1			
Petroleum jelly	3	2	(b) 4	836							
Netherlands—											
Crude petroleum	—	—	6	}	(a)	(a)	{				
Motor spirit	—	—	—					4			
Kerosene.. ..	—	—	—					1,231			
Gas oil	1	2	2					3			
do. (bunkers) (c)	4,584	1,138	236					168			
Fuel oil	—	—	—					48,596			
do. (bunkers) (c)	2,660	—	—					—			
Lubricating oil	2,185	—	1					78,443			
Greases	—	—	—					95			
Petroleum jelly	—	—	—					6			
Paraffin wax	—	—	—					15			
Ozokerite and ceresin	—	—	—					48			
Asphalt	20,716	724	9					221			
Natural asphalt	—	—	—					35,235			
Petroleum coke	—	—	—	—							
do. (bunkers)	—	—	—	—							
Norway—											
Motor spirit	17	—	—	—	3	31	(a)				
Kerosene.. ..	12	—	—	—	4	5	(a)				
Fuel oil and solar oil	18	11	—	—	96	570	(a)				
Residual oils, etc.	39	—	1	2	23	34	(a)				
Portugal—											
Fuel oil (bunkers) (d)	239	250	496	537	241	342	604				
Other mineral oils	452	100	280	232	245	162	87				
do. (bunkers) (d)	453	42	16	81	172	78	133				
Roumania—											
Crude petroleum	285,000	419,000	358,000	286,000	20,703	5,835	(a)				
Motor spirit	1,780,000	1,450,000	1,463,000	859,000	1,252,641	1,051,462	876,755				
Kerosene.. ..	513,000	317,000	343,000	222,000	344,440	326,466	270,925				
Fuel oil and gas oil (e)	1,252,000	957,000	794,000	600,000	1,433,847	785,195	626,667				
Other oils	59,000	117,000	85,000	88,000	55,231	57,889	55,998				
Paraffin wax	10,826	8,155	15,332	384	1,973	3,231	5,912				
Asphalt	18,000	65,811	57,595	22,247	12,978	5,112	6,820				
Petroleum coke	23,202	1,240	4,613	3,570	—	10	—				
Spain—											
Motor spirit	}	(a)	(a)	(a)	}	37,831	5,008	3			
Kerosene.. ..									3	5	8
Diesel oil									42	—	5
Lubricating oil									78	14	98
Asphalt									296	252	57
Sweden—											
Motor spirit	—	—	2	—	13	3,084	119				
Kerosene.. ..	—	—	—	—	1	9	129				
Fuel oil and gas oil	—	49	70	—	1,113	12,250	20,016				
Lubricating oil	10	—	—	1,352	119	994	306				
Other oils	—	—	—	1	—	403	1,210				

(a) Information not available.

(b) January to June only.

(c) Including imported oil.

(d) Bunkers on foreign ships only.

(e) Including bunkers.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Exporting Country and Description	1941	1942	1943	1944]	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Sweden—(Cont.)							
Paraffin wax	20	—	—	—	4	66	—
Petroleum jelly	4	—	—	—	15	22	25
Ozokerite and ceresin ..	—	—	—	—	1	50	19
Asphalt	57	1	96	—	275	69	182
Pitch	10	46	—	20	44	1,393	2,710
Switzerland—							
Motor spirit	—	—	1	—	1	83	407
Fuel oil	—	—	—	—	—	1	—
Lubricating oil and grease	3	1	1	1	3	63	221
Petroleum jelly	—	—	—	—	—	67	34
Asphalt and bitumen ..	79	1	—	—	5	238	702
Paraffin wax and ceresin	—	—	—	—	—	2	88
Algeria—							
Motor spirit	294	3,056	218	250	134	379	603
Kerosene	1	—	—	12	10	2	6
Gas oil (c)	188	1	58	91	149	46	16
Fuel oil (c)	1	5	—	—	—	147	6
Fuel oil and gas oil (e) ..	65,374	7,146	3,148	—	3,806	45,214	271,240
Lubricating oil	49	176	90	33	3	9	95
Asphalt and bitumen ..	—	—	—	—	1	—	—
Canary Islands (b)—							
Petroleum products ..	(a)	(a)	(a)	(a)	26,625	127,962	272,628
do. (bunkers) ..	(a)	(a)	(a)	(a)	8,767	283,107	658,798
Cape Verde Islands—							
Fuel oil (bunkers) (b) ..	71,525	11,112	18,258	8,563	(a)	(a)	(a)
Ceuta (b)—							
Petroleum products ..	(a)	(a)	(a)	(a)	2	22	52
do. (bunkers) ..	(a)	(a)	(a)	(a)	100	11,054	53,762
Egypt—							
Motor spirit	200	213	14	100	35	—	(a)
Kerosene	72	37	—	3	3	2	(a)
Fuel oil, etc.	154	11,182	—	—	—	14	(a)
do. (bunkers for foreign ships)	183,722	193,941	132,365	194,868	148,742	261,258	(a)
Lubricating oil	34	28	5	10	—	—	(a)
Asphalt, etc.	55,235	41,414	11,615	56,748	54,422	161,335	(a)
Melilla—							
Petroleum products ..	(a)	(a)	(a)	(a)	1,285	1,031	1,067
Morocco (French)—							
Crude, refined and residual	6	47	4	174	185	93	731
Cuba (including re-exports)—							
Motor spirit	371	533	—	—	—	(a)	(a)
Natural asphalt	4,641	1,596	950	98	173	(a)	(a)
Mexico (d)—							
Crude petroleum	1,184,313	449,623	222,216	82,565	354,627	430,001	449,305
Motor spirit	127,418	58,992	2,330	696	1,215	1,077	14,997
Kerosene	245,088	63,007	159,225	206,564	146,291	102,872	65,040
Fuel oil	580,071	264,491	473,513	325,434	527,044	597,935	402,122
Gas oil	62,539	42,750	37,322	62,429	70,538	115,924	43,109
Lubricating oil	73	76	226	67	59	157	175
Asphalt (petroleum) ..	12,601	2,894	—	5,626	—	29,679	(a)
Natural asphalt	(a)	(a)	—	6,806	2,085	429	(a)

(a) Information not available.

(b) Foreign produce. See imports.

(c) Includes bunkers of domestic produce, but excludes bunkers of foreign produce.

(d) Including bunkers.

(e) Bunkers of foreign produce.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Netherlands West Indies—							
Crude petroleum	—	—	—	—	45,857	691,429	1,839,714
Aviation spirit	445,000	380,000	538,000	1,034,000	793,111	460,889	579,333
Motor spirit	3,758,000	2,092,000	2,265,000	2,244,000	3,116,178	4,279,867	4,386,242
Kerosene	581,000	562,000	885,000	749,000	672,764	940,418	1,136,545
Gas oil and diesel oil ..	2,378,000	1,465,000	1,606,000	1,926,000	2,409,719	3,597,076	3,494,564
do. (bunkers)	172,000	112,000	145,000	69,000	359,246	721,749	886,913
Fuel oil	13,667,000	7,866,000	12,071,000	16,883,000	19,138,438	16,524,667	18,840,354
do. (bunkers)	446,000	296,000	847,000	1,348,000	1,593,812	3,437,729	2,835,000
Lubricating oil	110,000	118,000	98,000	167,000	55,720	139,440	307,300
Asphalt	100,857	33,619	1,462	107,352	135,774	108,086	208,859
United States—							
Crude petroleum	4,723,819	4,871,239	5,933,255	4,767,427	5,050,432	6,081,946	6,551,731
Aviation spirit	721,030	2,605,393	5,533,507	6,946,817	3,465,705	178,325	396,702
Motor spirit	1,902,605	1,031,326	1,585,176	4,138,164	5,845,193	4,181,634	3,765,271
Other finished light products	37,512	61,764	54,900	73,903	184,250	50,850	91,620
Natural gasoline	132,000	134,000	69,000	77,000	100,853	351,870	554,447
Kerosene	380,710	318,103	564,889	587,344	726,968	1,041,600	851,139
Gas oil and distillate fuel oil	2,090,784	2,832,193	3,176,180	5,735,974	4,445,572	3,808,713	3,644,364
Residual fuel oil	1,506,504	1,267,348	1,914,594	1,327,754	1,035,884	847,812	1,178,484
Fuel oil (bunkers)	4,256,010	3,558,442	6,705,276	10,054,118	(a)	(a)	(a)
Lubricating oil	1,304,006	1,105,964	1,188,150	888,858	891,124	1,514,236	1,944,314
Transformer oil	11,068	10,378	7,762	10,042	14,181	25,052	37,547
Greases	35,563	26,039	33,472	30,346	29,135	43,754	79,800
Paraffin wax	95,018	65,824	77,142	72,431	70,671	89,609	138,216
Petroleum jelly	28,234	24,917	26,533	21,474	20,814	41,815	41,618
Asphalt and bitumen, natural	9,701	7,983	31,157	29,957	78,853	23,729	21,341
Other asphalt, etc.	200,846	75,718	76,849	106,439	190,141	347,106	496,383
Petroleum coke	249,175	290,280	280,134	183,692	186,764	344,630	369,565
Liquefied petroleum gases	11,238	16,844	20,213	29,244	52,351	98,620	106,940
Natural gas (million cu. ft.)	(a)	6,206	8,194	10,248	13,247	13,337	8,035
Argentina—							
Motor spirit	4,138	5,147	9,225	6,212	3,719	1,125	(a)
Kerosene	800	4,811	820	738	755	362	
Gas oil	581	6,388	280	178	51	123	
Fuel oil	48,740	44,340	28,645	9,237	7,703	1,780	
Diesel oil	16,860	33,815	27,982	1,624	2,347	497	
Lubricating oil	1,313	1,738	—	661	602	689	
Grease	89	61	34	20	5	3	
Asphalt	2,996	1,020	219	100	89	524	
Bitumen (Rafaelite) ..	1,737	2,336	1,167	1,827	1,151	3,298	
Bolivia—							
Crude petroleum	11,643	12,025	13,578	19,408	19,803	11,491	15,000
Fuel oil	—	—	—	4,500	(a)	3,208	2,500
Chile—							
Crude petroleum (b) ..	89	1,863	—	—	—	—	(a)
Motor spirit (b)	2	1	—	—	—	—	
Kerosene (b)	6	1	1	1	—	—	
Diesel oil (b)	2,412	14,578	—	—	—	—	
Lubricating oil	19	10	2	2	—	—	
Tar and pitch	165	136	117	180	351	273	
Natural asphalt	—	—	—	1	—	—	

(a) Information not available.

(b) Including bunkers on foreign ships.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947		
FOREIGN COUNTRIES (Cont.)									
Colombia—									
Crude petroleum	3,072,998	1,031,164	1,471,464	2,555,115	2,683,785	2,446,810	} (a)		
Motor spirit	—	—	354	(a)	5	26			
Kerosene	—	—	(a)	(a)	2	2			
Fuel oil, etc.	—	—	41,840	42,113	31,803	67			
Ecuador—									
Crude petroleum	118,000	213,000	203,000	248,000	262,000	175,714	(a)		
Motor spirit	(a)	(a)	(a)	(a)	(a)	(a)	(a)		
Peru—									
Crude petroleum	552,762	27,902	37,491	28,133	26,691	170,277	281,143		
Motor spirit (c)	308,435	554,018	497,215	442,275	406,838	363,341	305,238		
Kerosene (c)	40,320	41,878	68,455	89,780	87,584	63,008	30,545		
Gas oil	3,745	18	6	(a)	(a)	(a)	(a)		
Fuel oil and Diesel oil ..	259,886	720,183	805,093	604,284	574,884	373,207	} 306,159		
do. (bunkers)	55,345	84,354	106,744	123,296	105,691	65,989			
Lubricating oil and grease	286	1,001	2,597	1,619	1,610	2,057		2,520	
Venezuela—									
Crude petroleum	28,341,410	17,796,204	22,491,830	32,927,000	41,629,143	49,769,143	56,644,286		
Motor spirit	127,766	128,265	206,527	} 2,924,000	138,045	230,420	145,849		
Kerosene	673	15	20		(a)	(a)	(a)		
Gas oil	153,993	98,751	136,784		(f)	(f)	(f)		
Fuel oil	3,075,830	1,792,103	1,706,174		} 3,014,229	3,014,229	2,749,833	2,989,875	
Diesel oil	489,099	347,327	280,043	601,955		807,219	728,438		
Asphalt	—	—	—	(a)		(a)	(a)		
Iran (b)—									
Crude petroleum	391,157	257,778	—	(a)	203,571	876,571	} (a)		
Motor spirit	823,900	1,613,714	1,994,222	2,148,483	2,278,037	4,453,486			
Kerosene	638,329	802,644	949,564	1,244,600	1,598,673	1,695,909			
Fuel oil	2,984,011	5,966,689	5,227,265	1,957,229	10,400,833	10,449,249			
Lubricating oil, etc. ..	78,061	96,730	131,760	(a)	(a)	(a)			
Iraq—									
Crude petroleum	1,353,740	2,149,740	3,400,000	4,100,000	4,290,270	4,600,000	4,600,000		
Motor spirit	782	406	615	603	820	(a)	(a)		
Kerosene	609	58	209	197	283	(a)	(a)		
Bitumen	3,489	—	—	—	5	(a)	(a)		
Netherlands East Indies—									
Crude petroleum	(d) 517,879	} (a)	(a)	(a)	(a)	(a)	(a)		
Motor spirit	(d) 1,294,968		} 6,873				1,607	118,600	
Kerosene	(d) 407,594							6,873	98,200
Fuel and motor oils ..	(d) 2,027,241								
do. (bunkers)	(e) 296,753								
Batching oil	(d) 12,011								
Lubricating oil	(d) 20,590	(a)	(a)	(a)	(a)	(a)	(a)		
Greases	(a)								
Paraffin wax	(e) 47,983								
Asphalt	(a)								
Turpene	(a)								
Saudi Arabia—									
Crude petroleum	579,000	632,000	688,000	1,026,000	2,412,000	4,343,000	7,192,000		
Syria and Lebanon—									
Fuel oil	—	18	9	9,769	29,216	14	(a)		
Asphalt and bitumen ..	—	—	63	14	272	597	(a)		

(a) Information not available.

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

(c) Including bunkers.

(d) January to October; Outer Islands on/v.

(e) January to October only.

(f) Included with Diesel oil.

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

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Crude petroleum ..	976,425	591,317	527,183	683,733	948,942	2,240,000	2,566,000
Aviation spirit ..	} 4,681,796	1,069,497	2,202,530	4,797,853	2,074,557	106,727	} 3,887,700
Motor spirit ..		3,064,503	3,356,713	4,812,997	4,887,750	3,753,370	
Other spirit ..		104,926	64,940	110,684	158,326	102,787	
Kerosene ..	93,553	851,106	1,198,226	1,329,296	1,239,212	1,445,255	(d) 85,057
Fuel oil (d) ..	1,058,646	3,037,515	5,501,991	5,576,326	4,168,636	4,365,983	3,142,824
Gas oil ..	4,664,058	1,002,418	1,623,323	2,342,125	1,817,540	1,831,726	(d) 1,613,938
Lubricating oil ..	992,148	555,631	431,873	570,102	309,373	339,332	332,598
Other petroleum oils ..	501,705	55	—	102	(c) 31	(c) 8	(d) 63
Mineral jelly ..	311	55	—	102	7,624	5,788	9,684
Paraffin wax ..	10,184	14,363	11,238	7,235	33,371	33,066	39,016
Ozokerite ..	56,479	59,098	37,682	28,550	—	24	178
Asphalt and bitumen ..	1	—	—	29	—	—	—
Eire—	18,779	13,088	12,320	16,867	9,148	26,182	30,855
Motor spirit ..	58,407	46,198	35,512	42,350	48,937	114,973	159,073
Kerosene ..	37,206	34,844	28,989	34,839	42,027	58,374	67,276
Fuel oil and gas oil ..	34,612	24,532	24,412	25,881	25,136	48,849	171,841
Lubricating oil ..	5,324	4,855	3,556	4,787	4,716	11,610	13,176
Paraffin wax ..	1,612	1,017	1,252	1,589	1,728	1,371	3,041
Asphalt and bitumen ..	2,424	444	364	259	387	16,029	14,709
Malta—							
Motor spirit ..	} (a)	(a)	(a)	(a)	5,633	7,452	9,507
Petroleum ..					20,175	24,079	49,039
Fuel oil ..					(a)	17,389	29,042
Gas oil ..					(a)	8,832	8,440
Anglo-Egyptian Sudan—							
Motor spirit ..	14,230	21,745	11,343	12,302	14,880	18,548	27,933
Kerosene ..	4,305	4,920	4,082	5,826	6,368	7,721	9,690
Fuel oil and gas oil ..	16,449	19,673	32,644	36,155	46,672	64,587	73,775
Lubricating oil, etc. ..	2,192	1,884	2,115	1,720	2,336	2,382	2,998
Asphalt, etc. ..	143	663	953	1,685	2,742	113	770
Gambia—							
Aviation spirit ..	(a)	(a)	(a)	(a)	2,676	655	1,638
Motor spirit ..	1,292	3,568	914	279	500	683	1,121
Kerosene ..	180	161	186	215	208	309	250
Fuel oil ..	235	549	565	281	342	509	1,128
Lubricating oil ..	61	212	125	78	40	95	86
Gold Coast—							
Motor spirit (d) ..	17,757	34,508	37,438	45,918	29,061	18,260	(e) 34,480
Kerosene ..	3,858	3,575	6,139	5,657	4,575	4,753	(e) 16,619
Fuel oil (d) ..	62,258	72,941	60,652	29,193	30,189	36,587	(e) 60,555
Lubricating oil ..	2,599	3,040	2,924	1,204	2,290	2,501	(e) 5,118
Asphalt and bitumen ..	10	24	40	1	48	29	(e) 382
Kenya and Uganda—							
Motor spirit (d) ..	91,820	85,190	70,465	70,102	73,784	84,821	91,691
Kerosene (d) ..	8,380	14,422	17,699	17,110	16,986	23,167	28,158
Fuel oil (b) ..	198,188	230,647	158,671	81,462	55,983	114,388	118,704
Lubricating oil (d) ..	3,764	5,619	4,367	6,355	3,210	4,835	6,344
Greases ..	195	333	331	570	230	516	461
Mauritius—							
Motor spirit ..	4,575	2,497	1,163	3,461	2,695	6,106	6,138
Kerosene ..	3,044	2,420	2,477	4,554	2,907	3,718	3,066
Lubricating oils, etc. ..	592	481	714	1,427	487	514	858
Fuel oil ..	803	1,126	346	(c) 99	(c) 76	11	81
Refined motor grease ..	80	59	33	12	30	84	60
Asphalt ..	167	67	22	12	116	448	1,600

* 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.

(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) Total imports.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES (Cont.)							
Nigeria—							
Motor spirit	4,313	16,100	23,913	21,359	21,636	9,866	22,373
Kerosene.. .. .	1,717	852	3,169	4,806	7,393	11,384	6,180
Fuel oil	702	822	2,342	1,058	2,333	3,617	(b) 5,350
Lubricating oil ..	623	2,963	787	1,987	868	1,363	4,113
Asphalt and bitumen ..	275	1,906	2,767	26	2,610	1,130	710
Northern Rhodesia—							
Motor spirit	6,265	5,372	5,185	5,769	6,517	8,641	11,986
Kerosene.. .. .	532	667	732	684	784	1,105	} 2,001
Gas oil	274	268	248	366	547	831	
Lubricating oil ..	1,216	1,054	912	1,298	696	1,028	1,376
Asphalt and bitumen ..	600	539	1	2	279	296	(a)
Nyasaland—							
Motor spirit	1,973	(a)	1,166	1,835	2,337	3,016	3,838
Kerosene.. .. .	349	(a)	338	460	597	818	770
Fuel oil	688	982	910	548	859	1,173	1,352
Lubricating oil ..	143	(a)	226	312	133	157	264
Seychelles—							
Motor spirit	118	109	103	78	87	156	202
Kerosene.. .. .	122	142	118	147	150	172	166
Fuel oil	59	214	42	139	142	152	222
Lubricating oil ..	9	11	94	17	5	17	17
Sierra Leone—							
Motor spirit	2,712	2,458	2,240	2,174	2,645	3,426	4,429
Kerosene	1,038	1,073	1,206	1,895	1,987	2,253	2,807
Fuel oil	2,598	3,439	2,770	4,042	4,182	6,178	5,915
Lubricating oil ..	535	423	768	788	386	245	499
Asphalt and bitumen ..	302	(a)	(a)	647	432	771	307
Somaliiland Protectorate—							
Motor spirit	(a)	794	855	1,157	1,556	1,509	3,638
Kerosene.. .. .	(a)	173	198	232	294	367	135
Gas oil	(a)	232	177	173	1,010	1,006	(a)
Lubricating oil ..	(a)	44	33	91	158	160	(a)
Southern Rhodesia—							
Aviation spirit	(a)	(a)	(a)	(a)	(a)	2,814	3,787
Motor spirit	27,588	20,309	15,699	18,471	22,909	34,059	46,246
Kerosene.. .. .	2,299	2,514	2,329	2,535	2,709	3,210	3,960
Gas oil	1,589	1,970	1,946	2,114	2,643	3,797	5,139
Fuel oil	8,466	7,521	5,946	6,155	6,216	7,770	9,716
Lubricating oil ..	3,107	1,838	2,323	3,388	1,624	2,730	4,200
Other oils (total imports)	1,102	75	148	449	223	191	189
Paraffin wax	597	321	661	464	633	463	398
Asphalt and bitumen ..	4,864	2,293	29	1,507	2,886	4,752	3,033
South West Africa—							
Motor spirit	4,779	7,496	5,305	4,938	7,410	(a)	(a)
Kerosene.. .. .	2,395	1,854	1,887	2,879	3,487	(a)	(a)
Lubricating oil ..	451	270	384	653	80	(a)	(a)
Other oils	4,555	6,460	5,269	7,034	8,021	(a)	(a)
Asphalt and bitumen ..	35	1	9	—	10	(a)	(a)
Tanganyika Territory—							
Motor spirit	9,080	10,024	11,925	14,379	17,066	18,056	26,900
Kerosene.. .. .	4,813	5,769	6,428	7,461	9,006	9,237	10,307
Gas oil	2,436	4,024	3,476	4,397	5,793	5,361	9,745
Diesel oil	5,536	4,784	4,080	3,858	2,659	3,167	2,431
Fuel oil	612	1,546	745	427	1,924	1,513	664
Lubricating oil ..	1,179	1,346	1,548	1,896	1,532	2,148	4,474
Greases	70	64	83	129	107	132	456
Union of South Africa—							
Motor spirit	535,352	532,954	459,765	496,249	427,726	680,561	(a)
Other spirit	2,695	2,483	4,188	2,698	5,152	6,189	

(a) Information not available.

(b) Excess of re-exports.

(c) Total imports.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES (Cont.)							
Union of South Africa—							
<i>(Cont.)</i>							
Turpentine substitute ..	6,406	5,079	1,119	6,861	7,889	10,365	} (a)
Kerosene	49,743	67,273	80,814	94,392	79,228	93,329	
Gas oil	41,140	59,673	60,404	65,484	80,746	129,931	
Fuel oil (d)	1,201,104	1,559,087	922,481	232,134	311,197	417,419	
Lubricating oil .. .	42,300	32,815	34,823	53,766	34,426	51,266	
Transformer oil .. .	1,346	521	1,646	976	840	978	
Road oil	4,487	3,960	615	211	2,273	4,892	
Other oils	1,370	537	1,079	1,564	1,797	2,008	
Paraffin wax	16,808	5,094	15,673	17,504	6,689	6,515	
Asphalt and bitumen ..	10,244	5,804	7,912	3,645	15,574	13,532	
Petroleum jelly	1,673	528	1,649	1,729	974	1,273	
Zanzibar—							
Motor spirit	959	754	911	899	1,196	1,081	1,482
Kerosene, etc.	768	3,098	1,321	1,082	1,363	2,639	1,449
Fuel oil	1,253	865	1,519	430	1,472	1,373	1,424
Lubricating oil	47	62	127	126	72	111	132
Canada—							
Crude petroleum	6,684,814	6,303,362	7,107,965	8,149,692	8,115,176	9,058,212	9,778,106
Tops for refiners	(a)	(a)	(a)	—	—	—	80,000
Motor spirit	290,238	380,314	319,688	299,674	257,543	571,656	738,931
Kerosene, etc.	7,386	34,860	41,051	34,054	48,711	137,208	536,535
Lubricating oils	59,595	60,552	53,929	54,772	42,064	43,569	54,391
Fuel oil	129,762	168,668	223,210	263,846	222,296	456,435	1,557,050
do. (bunkers)	134,345	86,320	115,903	96,731	147,482	53,843	46,545
Other petroleum oils ..	5,519	2,420	1,812	7,189	15,934	3,175	3,577
Petroleum jelly, etc. ..	(£103,059)	(£99,764)	(£111,926)	(£103,464)	(£110,479)	(£155,658)	(£154,933)
Grease	5,105	4,641	4,594	4,695	4,688	4,432	4,958
Paraffin wax, etc. .. .	11,202	7,809	9,260	7,903	8,355	9,535	17,430
Asphaltum oil, etc. .. .	294	2	—	—	23	—	—
Asphalt	20,569	13,138	6,681	5,405	5,733	7,393	9,733
Petroleum coke	196,854	279,246	298,955	198,187	171,537	197,840	231,146
Other products	5,069	5,064	4,736	5,200	5,931	69,492	46,503
Newfoundland (b)—							
Motor spirit (e)	17,466	(c) 14,831	14,821	89,695	73,382	66,353	78,537
Kerosene	3,538	(c) 3,919	3,960	3,588	5,291	6,595	8,123
Lubricating oil	3,657	(c) 3,558	4,352	2,827	2,926	3,503	4,000
Fuel oil, etc. (d) .. .	30,063	(c) 34,765	33,624	186,033	67,069	68,281	74,328
Greases	(a)	(a)	(a)	78	111	119	176
Paraffin wax	(£2,596)	(c) 1	31	26	6	9	8
Asphalt, etc.	(£2,005)	(c) (£1,476)	(£3,778)	4,550	3,382	4,419	1,036
British Guiana—							
Crude petroleum	29,902	23,892	34,026	33,124	16,648	22,895	30,142
Aviation spirit	119	226	317	194	129	144	473
Motor spirit	4,100	3,444	2,670	3,130	3,164	4,342	4,189
Kerosene	1,692	1,165	1,776	2,085	2,139	2,264	3,042
Fuel oil, etc.	10,662	8,393	11,196	13,718	6,752	14,425	9,185
Lubricating oil	(a)	(a)	(a)	(a)	(a)	983	1,451
Tar and pitch	287	252	292	181	210	327	278
Paraffin wax	(a)	(a)	(a)	(a)	(a)	5	20
Asphalt	280	495	447	—	113	110	249
British West Indies—							
Bahamas—							
Crude petroleum	4,306	2,396	1,661	1,796	5,600	5,567	6,539
Motor spirit	3,410	2,311	2,357	1,682	3,731	2,895	9,266
Kerosene	1,287	1,404	1,393	1,422	1,429	1,618	2,135
Lubricating oil	308	256	100	76	176	204	272

(a) Information not available.

(b) Year ended June 30 of year following for 1941 and ended March 31 subsequently.

(c) Nine months ended March 31, 1943.

(d) Imported chiefly for bunkering purposes.

(e) Including Aviation spirit. (f) Total imports. (g) Including imports for bunkering purposes. See exports.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES (Cont.)							
British West Indies (Cont.)—							
Barbados—							
Crude petroleum ..	2,858	4,637	4,714	9,710	5,678	3,685	6,005
Motor spirit ..	4,200	2,247	2,799	2,375	3,074	3,884	5,003
Kerosene ..	1,446	910	933	1,750	1,720	3,095	2,293
Road oil ..	(a)	(a)	(a)	(a)	64	117	129
Fuel oil ..	2,782	4,594	4,622	9,548	6,344	2,904	3,880
Bermuda—							
Aviation spirit ..	(a)	(a)	700	1,579	2,789	2,823	(a)
Motor spirit ..	2,145	3,104	680	3,202	2,163	3,617	1,927
Kerosene ..	2,424	1,492	1,604	3,074	3,495	1,871	2,026
Fuel oil ..	70,168	50,160	24,531	13,621	14,082	11,575	19,720
Lubricating oil ..	(£5,158)	(£9,616)	287	453	228	233	435
Dominica—							
Motor spirit ..	(a)	(a)	(a)	(a)	(a)	259	273
Kerosene ..						199	197
Fuel oil and gas oil ..						168	184
Lubricating oil ..						15	17
Grenada—							
Motor spirit ..	286	414	387	425	556	728	1,041
Kerosene ..	392	377	400	425	457	512	499
Fuel oil ..	179	213	221	186	253	242	266
Lubricating oil ..	33	19	9	19	89	37	47
Road oil ..	185	190	198	102	398	98	986
Jamaica—							
Aviation spirit ..	582	593	1,342	2,001	(d) 2,503	(d) 3,012	7,047
Motor spirit ..	23,843	12,724	9,109	17,252	14,985	22,504	26,565
Kerosene ..	8,321	3,786	4,107	6,755	6,403	8,472	8,333
Gas oil (b) ..	3,325	9,050	(c)	10,898	7,617	10,073	7,376
Diesel oil (b) ..	8,224	2,226	2,815	19,732	12,242	16,030	7,376
Fuel oil (b) ..	72,414	54,911	13,967	15,729	11,883	41,062	69,430
Lubricating oil ..	1,816	1,245	1,097	521	872	1,087	1,521
Asphalt ..	3,625	2,105	5,546	1,323	2,448	6,446	1,948
Leeward Islands—							
Aviation spirit ..	(a)	(a)	(a)	(a)	1 1,368 625 235 517 534 114	(a)	(a)
Motor spirit ..							
Kerosene ..							
Gas oil ..							
Fuel oil ..							
Road oil ..							
Lubricating oil ..							
St. Lucia—							
Motor spirit ..	304	(a)	(a)	(a)	(a)	(a)	(a)
Kerosene ..	206						
Fuel oil ..	251						
Lubricating oil ..	33						
Road oil ..	197						
St. Vincent—							
Motor spirit ..	(a)	(a)	(a)	(a)	(e) 203 (e) 227 (e) 282 (a) (a)	(e) 318 (e) 198 (e) 267 (a) (a)	(a)
Kerosene ..							
Fuel oil, etc. ..							
Lubricating oil ..							
Asphalt, tar and pitch ..							
Trinidad and Tobago—							
Crude petroleum ..	34,435	11,857	—	148,452	303,909	411,930	842,288
Motor spirit ..	12,863	7,560	89,048	—	108,341	5	8
Kerosene ..	59	—	20,453	—	27,746	1,263	—
Gas oil ..	—	10,561	11,038	—	1,867	—	—
Fuel oil ..	535,328	161,300	7,035	—	—	—	—

(a) Information not available.

(b) Imported chiefly for bunkering purposes.

(d) Excess of re-exports (for bunkering purposes). See exports.

(c) Included, if any, with "Fuel oil."

(e) January to September only.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947					
BRITISH COUNTRIES (Cont.)												
British West Indies—(Cont.)												
Trinidad and Tobago (Cont.)—												
Lubricating oil ..	3,285	4,565	4,754	2,417	2,404	2,238	2,348					
Greases ..	420	486	302	313	226	111	218					
Petroleum jelly ..	113	78	24	45	84	14	60					
Paraffin wax ..	80	22	17	57	55	39	73					
Asphalt ..	5	21	15	4	—	—	101					
British Honduras—												
Motor spirit ..	1,559	1,041	2,015	951	2,199	2,045	2,776					
Kerosene ..	920	726	1,320	396	980	923	1,163					
Diesel oil ..	2,071	2,355	3,670	360	2,065	2,550	2,662					
Lubricating oil ..	285	307	133	323	268	307	438					
Asphalt ..	—	584	1,089	734	647	30	397					
Falkland Islands—												
Motor spirit ..	168	112	108	142	75	108	220					
Kerosene ..	90	42	52	34	65	123	106					
Gas and diesel oils ..	51	67	90	116	158	406	655					
Fuel oil ..	31,399	12,335	17,791	34,153	44,343	52,900	56,117					
Aden—												
Motor spirit ..	2,120	7,890	1,084	1,342	2,986	2,672	5,160					
Kerosene ..	1,612	1,390	2,696	1,846	2,537	3,551	3,919					
Fuel oil (b) ..	361,817	587,904	445,169	519,542	361,993	757,237	1,061,564					
Lubricating oil ..	433	543	372	4,218	959	1,183	966					
Other petroleum oils ..	—	—	—	5,702	—	—	—					
Petroleum jelly ..	1	14	1	—	2	8	3					
Paraffin wax ..	—	5	—	—	—	4	3					
Asphalt and bitumen ..	15	—	—	—	—	226	472					
Brunei—												
Motor spirit ..	(a)	(a)	(a)	(a)	(a)	(a)	974					
Fuel oil ..								1,523				
Lubricating oil ..									236			
British India (total imports)—												
Motor spirit ..	243,445	289,601	540,945	1,529,335	1,942,642	512,559	(e) 301,822					
Other spirit ..	11,539	30,382	57,552	184,521	147,663	21,030	(e) 15,024					
Kerosene ..	573,135	346,532	291,638	370,757	442,300	530,208	(e) 625,035					
Diesel oil ..	257,461	318,175	301,071	294,854	507,561	412,484	(e) 324,711					
Fuel oil (d) ..	473,067	631,723	644,455	734,842	1,042,120	1,005,724	(e) 812,704					
White oil ..	1,026	159	76	27	29	1,017	(e) 17,291					
Lubricating oil ..	151,896	109,263	94,227	87,959	133,913	139,613	(e) 176,746					
Turpentine substitute ..	4,347	2,241	550	2,774	4,569	3,991	(e) 1,986					
Other oils ..	8,027	1,902	2,600	3,391	5,333	6,245	(e) 7,317					
Greases ..	4,973	3,651	2,189	2,467	1,845	2,518	(e) 6,372					
Paraffin wax ..	4,999	351	70	643	10	153	(e) 11					
Asphalt ..	52,165	62,035	84,091	151,310	264,872	24,713	(e) 42,119					
Burma—												
Motor spirit ..	(a)	(a)	(a)	(a)	(a)	(c) 35,473	(a)					
Kerosene ..								(c) 12,975				
Lubricating oil ..									(c) 3,085			
Fuel oil ..										(c) 11,407		
Other oils ..											(c) 71,675	
Greases ..												(c) 148
Paraffin wax ..													(c) 560
Asphalt ..	(c) 50											
Ceylon—												
Motor spirit ..	33,843	50,344	49,495	58,760	30,703	37,489	53,186					
Kerosene ..	26,303	34,740	27,510	28,341	29,604	34,431	37,791					
Gas oil ..	3,699	4,776	4,908	4,957	8,109	10,301	13,150					
Diesel oil (b) ..	78,474	74,138	89,830	107,588	121,960	97,459	94,718					

(a) Information not available.

(c) February to September only.

(e) January to November only.

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

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

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES (Cont.)							
Ceylon (Cont.)—							
Fuel oil (b)	200,590	115,783	270,252	438,116	596,237	287,586	270,259
Lubricating oil	3,413	2,622	5,887	2,526	3,224	4,106	4,397
Other oils and greases	118	106	249	59	86	177	147
Asphalt	5,955	7,988	8,787	12,162	9,592	18,416	12,025
Cyprus—							
Crude petroleum	4,053	4,092	5,952	7,716	12,692	23,273	39,305
Motor spirit, etc.	12,182	4,511	4,985	7,791	7,606	10,344	11,703
Kerosene, etc.	2,303	2,413	3,447	6,198	4,755	9,876	13,448
Lubricating oil	1,085	376	456	888	740	1,273	1,756
Paraffin wax	59	—	5	47	40	75	117
Asphalt and bitumen	736	41	—	—	2,273	2,476	2,234
Hong Kong (total imports)—							
Motor spirit	(a)	(a)	(a)	(a)	(a)	48,095	74,676
Kerosene						53,164	49,574
Fuel oil (b)						2,169	135,166
Diesel oil						7,191	77,900
Lubricating oil						9,407	16,486
Greases						403	682
Petroleum jelly						2,773	1,114
Paraffin wax						1,250	3,966
Malaya (total imports)—							
Motor spirit	(a)	(a)	(a)	(a)	(a)	173,875	232,146
Kerosene						103,716	146,481
Fuel oil						573,502	665,625
Lubricating oil						11,993	28,603
Paraffin wax						239	1,330
Asphalt and bitumen						4,540	24,632
Other petroleum products						38	223
Palestine—							
Crude petroleum	(a)	2,020,611	2,804,358	3,310,681	3,957,490	4,016,056	(a)
Motor spirit	(a)	397,510	287	195	69	123	(a)
Lubricating oil and grease	(a)	4,753	3,541	6,741	4,376	6,825	(a)
Petroleum jelly	46	49	51	78	77	23	(a)
Paraffin wax	337	142	220	189	255	189	(a)
Asphalt	2,480	106	164	424	516	749	(a)
Sarawak—							
Crude petroleum	(a)	(a)	(a)	(a)	(a)	(d)232,068	(a)
Motor spirit						(d) 618	(a)
Kerosene						(d) 1,241	(a)
Fuel oil						(d) 2,177	(a)
Lubricating oil						(d) 106	(a)
Natural gas (1,000 cu. ft.)						(d)71,000	(a)
Australia—							
Crude petroleum	339,199	20,769	2,672	198	(c) 6,710	158,511	306,711
Motor spirit	789,421	749,837	1,005,366	1,164,791	900,268	1,137,848	1,315,758
Kerosene	171,534	198,094	248,896	276,536	280,769	306,770	406,039
Lubricating oil	101,797	86,838	146,523	168,398	45,592	62,088	139,492
Residual and solar oils	711,854	1,153,169	1,413,024	1,583,037	1,857,295	1,258,870	918,525
Petroleum jelly	1,992	1,665	2,487	2,237	3,076	1,001	2,416
Greases	433	194	16	150	126	66	(c) 1,713
Paraffin wax, etc.	7,525	1,485	3,952	2,943	1,940	2,947	4,282
Mastic asphalt	—	—	—	—	9	—	—
Fiji—							
Aviation spirit (e)	(a)	(a)	(a)	(a)	(a)	1,679	2,154
Motor spirit	4,437	5,423	3,051	4,279	4,833	8,401	7,456
Kerosene	1,344	1,090	1,467	1,084	2,892	1,081	2,395

(a) Information not available.

(b) Imported chiefly for bunkering purposes.

(c) Excess of re-exports.

(d) April 15 to December 31 only.

(e) Imported for overseas air transportation.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947	
BRITISH COUNTRIES (Cont.)								
Fiji (Cont.)—								
Fuel oil and diesel oil ..	47,933	30,078	7,261	15,555	12,476	16,769	13,533	
Lubricating oil	644	1,113	435	527	529	760	902	
Greases	120	149	48	77	43	45	136	
Bitumen and tar ..	424	137	121	173	242	477	1,421	
New Zealand—								
Crude petroleum, fuel oil, etc.	240,642	319,367	305,985	397,973	284,487	226,738	281,068	
Motor spirit	215,975	192,721	216,645	195,188	225,050	280,919	329,312	
Turpentine substitute ..	2,350	1,415	2,291	2,220	2,313	3,672	3,020	
Kerosene	2,819	8,137	6,384	7,250	8,754	4,696	5,460	
Gas oil	22,264	17,636	32,742	22,719	34,647	29,373	25,329	
Lubricating oil	13,877	8,102	14,566	14,143	11,130	13,592	23,591	
Transformer oil	867	419	327	375	42	795	1,147	
Other refined oils	1,652	1,280	3,471	4,356	1,413	2,696	4,418	
Paraffin wax	1,328	483	2,835	528	1,001	311	1,430	
Asphalt and bitumen ..	10,723	6,499	9,822	12,327	5,489	10,287	12,634	
Solomon Islands (b)—								
Crude petroleum	389	} (a)	(a)	{ —	83	1,812	65	
Motor spirit	386				26	56		
Kerosene	112				73	72		
Lubricating oil	36				8	39		
FOREIGN COUNTRIES								
Austria—								
Crude petroleum	} (a)	(a)	(a)	(a)	(a)	(a)	} 15,157	
Motor spirit								8,262
Gas oil								4,038
Lubricating oil								840
Belgium-Luxemburg E.U.—								
Crude petroleum	—	—	—	—	—	74,300	} 2,061,137	
Motor spirit, etc.	40,509	19,362	15,657	9,476	107,300	335,900		
Kerosene	1,753	67	28	23	14,500	12,100		
Fuel oil, etc.	30,969	11,549	14,473	7,275	77,560	109,206		
Lubricating oil	6,149	13,365	22,297	12,655	40,700	58,700		
Other heavy oils	8	34	114	253	(a)	(a)		
Petroleum jelly	7	443	118	93	(a)	(a)		
Paraffin wax	151	482	564	473	333	3,204		
Ozokerite and ceresin ..	761	788	525	513	(a)	(a)		
Asphalt, bitumen, etc. ..	5,085	7,175	1,508	1,248	524	4,485		
Residual asphalt	52	1,224	1,670	158	(a)	(a)		
Bulgaria—								
Crude petroleum	14,000	7,900	3,697	10,146	4,571	6,571		} (a)
Motor spirit	13,700	22,500	12,333	5,474	45,212	37,065		
Kerosene	21,100	15,065	20,019	13,916	49,913	32,233		
Gas oil	16,400	16,824	19,456	13,963	20,596	32,038		
Lubricating oil, etc. ..	7,000	6,131	7,313	6,651	—	—		
Paraffin wax, ceresin, etc.	185	500	678	151	—	—		
Tar	(a)	5	—	—	(a)	(a)		
Petroleum jelly	52	229	912	250	(a)	(a)		
Ozokerite and ceresin ..	5	35	77	105	(a)	(a)		
Asphalt and bitumen ..	13,675	2,158	7,053	1,412	(a)	(a)		

(a) Information not available.

(b) Years ended March 31 following that stated.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Czechoslovakia—							
Crude petroleum, etc. . .	(a)	(a)	(a)	(a)	(a)	89,414	182,999
Motor spirit and kerosene . .						12,756	2,984
Fuel oil and gas oil . .						63,303	89,345
Lubricating oil and greases . .						24,641	20,434
Paraffin wax						184	2,269
Ozokerite and ceresin . .						18	214
Petroleum jelly						(a)	196
Asphalt products						237	886
Denmark—							
Crude petroleum	30	—	—	16,791	5,913	22,562	17,054
Motor spirit	13,510	15,485	6,715	4,522	32,286	213,626	280,675
Kerosene	16,355	11,800	7,909	5,231	21,560	33,932	32,619
Turpentine substitute	1,674	3,302	1,695	1,265	608	5,221	8,351
Fuel oil and gas oil	28,656	40,455	35,584	20,260	87,536	343,851	775,291
Lubricating oil and grease	1,406	4,367	7,731	8,389	12,202	35,528	26,146
Petroleum jelly	83	73	288	690	259	643	151
Ozokerite, etc.	605	632	363	770	180	747	292
Paraffin wax	415	577	827	926	238	1,005	1,398
Natural asphalt	2,569	1,444	718	97	406	6,193	2,868
Other asphalt and petroleum products	1,946	2,059	2,147	1,268	2,779	40,623	22,559
Finland (total imports)—							
Crude petroleum	1,086	491	117	30	22	28	—
Fuel oil	6,151	13,949	16,264	9,058	7,216	56,881	113,495
Motor spirit	63,169	70,577	65,721	22,415	11,621	65,994	164,785
Kerosene	6,909	4,390	3,163	10,832	2,633	16,499	18,983
Lubricating oil	4,778	5,791	10,378	7,363	3,006	7,151	15,095
Petroleum jelly	109	64	85	95	15	101	134
Paraffin wax	615	495	355	440	243	529	1,429
Asphalt and tar	2,974	2,045	5,213	2,029	526	7,852	17,532
France—							
Crude petroleum	24,711	—	—	5	204,124	2,643,683	4,907,595
Motor spirit	168,141	96,092	48,085	28,767	666,466	1,084,395	686,001
Kerosene	13,750	8,259	8,444	615	70,951	74,213	40,209
Lubricating oil	77,101	38,188	37,263	24,588	126,852	216,463	111,155
Fuel oil	171,329	20,670	7,051	776	333,572	409,713	524,709
Gas oil	37,311	64,170	43,708	34,742	296,636	372,865	197,735
Road oil, etc.	438	81	38	87	26,057	197,647	152,077
Petroleum coke	8,187	20,451	23,327	6,988	27,373	65,063	88,568
Paraffin wax	1,637	929	182	986	1,512	4,002	10,832
Ozokerite and ceresin	140	62	30	15	—	—	—
Petroleum jelly	3	42	36	61	148	809	1,021
Pitch	1,602	211	168	69	1,585	2,469	34,318
Asphalt and bitumen	90	57	25	118	97	1,117	660
Germany—							
Crude petroleum	295,085	371,020	324,846	(b) 263,100	(a)	(a)	(a)
Motor spirit	1,260,214	899,982	701,931	(b) 255,932			
Kerosene	174,270	98,598	70,787	(b) 38,029			
Gas oil	707,577	320,459	338,087	(b) 221,728			
Fuel oil	172,518	5,852	66,059	(b) 56,221			
Lubricating oil, etc.	139,384	103,020	65,849	(b) 59,100			
Paraffin wax	9,007	10,875	13,633	(b) 8,840			
Ozokerite, etc.	125	193	1,426	(b) 569			
Asphalt	178	621	11	(b) 501			
Greece—							
Motor spirit	23,800	7,300	7,500	3,100	21,474	62,547	129,094
Kerosene	2,900	3,300	3,900	1,700	7,538	6,930	27,491
Fuel oil and diesel oil	69,000	21,000	18,000	13,000	140	173,228	431,849

(a) Information not available.

(b) January to July only.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Greece (Cont.)—							
Other oils and greases ..	1,442	1,196	1,686	1,764	3,485	14,933	(a)
Petroleum jelly ..	(a)	(a)	(a)	(a)	47	160	(a)
Asphalt and bitumen ..	216	48	—	—	10,818	5,706	(a)
Hungary—							
Crude petroleum ..	(a)	(a)	(a)	(a)	(a)	3,800	10,000
Iceland—							
Crude petroleum ..	14,620	14,699	—	—	—	—	} (a)
Motor spirit ..	8,731	13,221	13,935	12,725	16,723	22,120	
Kerosene ..	1,461	1,078	2,962	1,844	822	—	
Gas oil and fuel oil ..	2,223	7,190	20,080	18,319	16,236	36,776	
Lubricating oil ..	1,384	1,957	1,642	1,267	1,618	1,846	
Greases ..	56	55	38	49	77	50	
Paraffin wax ..	45	54	45	39	23	26	
Asphalt ..	62	28	28	151	245	454	
Petroleum jelly ..	5	9	4	5	7	1	
Italy—							
Crude petroleum ..	229,000	255,000	(b) 100,000	} (a)	} (a)	31,143	1,212,523
Motor spirit ..	72,000	120,000	(b) 61,000			197,142	253,254
Kerosene ..	63,000	69,000	(b) 45,000			75,600	106,953
Gas oil ..	117,000	124,000	(b) 146,000			166,385	223,130
Fuel oil ..	116,000	77,000	(b) 36,000			568,458	1,541,436
Lubricating oil ..	21,000	55,000	(b) 22,000			13,160	43,220
Petroleum jelly ..	290	1,650	(b) 1,345			(a)	13,173
Paraffin wax, etc. ..	5,435	11,559	(b) 6,443			(a)	93,618
Bitumen ..	8,747	18,602	(b) 9,678			(a)	
Netherlands—							
Crude petroleum ..	—	—	—	} (a)	} (a)	257,213	847,337
Motor spirit ..	49,535	25,545	15,610			375,575	236,750
Kerosene ..	15,239	10,437	5,431			286,457	316,451
Gas oil ..	19,474	28,928	12,664			253,675	368,616
Fuel oil ..	7,655	124	174			419,536	658,373
Lubricating oil ..	1,448	3,640	8,806			62,013	65,121
Greases ..	3	5	3			1,019	1,175
Petroleum jelly ..	2	4	2			1,307	1,484
Paraffin wax ..	1,001	1,525	1,228			2,337	4,241
Ozokerite and ceresin ..	483	467	367			100	353
Asphalt ..	23	74	819	6,880	1,227		
Natural asphalt ..	64	20	398	982	2,052		
Norway—							
Crude petroleum ..	—	—	—	5,832	12,532	—	} 32,224
Motor spirit ..	85,978	82,112	67,013	58,541	36,144	214,025	
Turpentine substitute ..	1,005	819	634	122	2,015	9,332	
Kerosene ..	14,841	6,365	9,589	6,080	18,177	21,598	
Diesel oil ..	27,216	12,680	5,485	—	12,687	89,624	
Gas oil ..	54,097	58,397	66,859	87,726	81,340	160,922	
Fuel oil ..	685	1,056	4,812	—	8,740	81,958	
Residual oils, etc. ..	4,217	9,128	10,887	13,028	9,136	26,322	
Paraffin wax ..	401	687	612	476	327	1,035	
Petroleum jelly ..	179	243	443	533	449	2,218	
Asphalt, etc. ..	1,240	698	601	1,586	6,279	32,276	
Poland—							
Crude petroleum ..	(a)	(a)	(a)	(a)	(a)	19,405	(a)
Motor spirit ..	(a)	(a)	(a)	(a)	(a)	205,598	(a)
Kerosene ..	(a)	(a)	(a)	(a)	(a)	9,760	(a)
Gas oil ..	(a)	(a)	(a)	(a)	(a)	81,150	(a)
Lubricating oil ..	(a)	(a)	(a)	(a)	(a)	29,120	(a)
Portugal—							
Crude petroleum ..	102,250	17,196	—	—	26,397	101,048	263,400
Motor spirit ..	34,140	13,008	30,463	38,410	44,337	60,305	68,080
Kerosene ..	14,049	2,142	17,161	26,161	33,020	45,354	43,267

(a) Information not available.

(b) January to June only.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Portugal (Cont.)—							
Fuel oil and gas oil ..	25,088	7,989	31,460	36,858	71,805	131,804	168,363
Lubricating oil ..	1,883	1,656	5,808	6,767	7,008	12,544	12,992
Other mineral oils ..	458	169	180	190	689	1,981	3,141
Petroleum jelly ..	22	46	135	136	175	128	190
Paraffin wax ..	712	128	781	282	785	923	1,974
Natural asphalt ..	(a)	3,102	403	2,712	5,681	14,835	28,504
Spain—							
Crude petroleum ..	(a)	(a)	(a)	(a)	94,472	130,842	—
Light petroleum ..	(a)	(a)	(a)	(a)	1,783	1,825	—
Motor spirit ..	(a)	(a)	(a)	(a)	230,641	334,108	367,123
Kerosene ..	(a)	(a)	(a)	(a)	6,762	21,962	26,134
Lubricating oil ..	(a)	(a)	(a)	(a)	41,805	56,610	52,765
Fuel oil ..	(a)	(a)	(a)	(a)	102,808	136,493	325,074
Petroleum jelly ..	(a)	(a)	(a)	(a)	431	737	913
Paraffin wax ..	(a)	(a)	(a)	(a)	92	132	157
Asphalt ..	(a)	(a)	(a)	(a)	22,736	39,936	65,630
Sweden—							
Crude petroleum ..	—	—	—	—	14,086	452,554	469,107
Motor spirit ..	44,624	44,580	30,417	32,541	39,063	451,089	660,552
Kerosene ..	27,602	34	8	9	14,684	117,785	129,150
Fuel oil and gas oil ..	49,602	45,300	86,126	80,204	105,703	718,247	1,735,564
Lubricating oil ..	7,492	16,221	28,299	22,004	19,350	68,488	68,811
Petroleum jelly ..	616	550	1,292	395	506	1,201	970
Other oils ..	46	78	146	47	186	1,008	316
Paraffin wax ..	1,417	1,296	969	706	2,716	5,878	7,671
Ozokerite and ceresin ..	338	227	387	412	135	1,225	1,204
Asphalt ..	2,370	1,860	2,175	2,590	1,248	4,281	4,723
Pitch ..	6,602	15,687	9,439	6,928	19,171	25,396	21,705
Switzerland—							
Motor spirit ..	45,644	33,618	29,006	35,577	11,181	148,142	197,755
Kerosene ..	7,174	6,109	3,686	1,669	79	15,103	11,264
Fuel oil ..	48,849	40,715	33,550	18,130	18,376	216,980	427,882
Lubricating oil and grease ..	13,679	13,388	10,992	5,209	3,185	28,723	30,492
Other oils ..	8,017	4,656	4,387	1,283	8	7,036	67,653
Petroleum jelly ..	505	448	210	146	294	1,811	892
Paraffin wax and ceresin ..	3,641	1,792	415	520	48	3,193	2,644
Asphalt and bitumen ..	77	15	—	—	408	716	687
Algeria—							
Motor spirit ..	19,901	7,295	88,068	46,084	57,078	129,591	142,595
Kerosene ..	4,961	2,852	33,987	23,615	2,472	38,500	46,769
Gas oil ..	10,655	391	18,695	27,698	31,253	44,177	58,144
Fuel oil and diesel oil ..	13,540	2,360	7,883	8,372	17,831	72,230	109,603
Lubricating oil ..	971	1,018	6,508	7,588	7,067	13,869	14,732
Road oil, etc. ..	34	7	585	4,897	3,859	22,241	17,261
Paraffin wax ..	322	—	59	440	283	269	763
Petroleum jelly ..	1	—	—	31	12	11	45
Ozokerite and ceresin ..	16	56	—	—	6	111	156
Asphalt and bitumen ..	688	59	—	—	16	601	961
Angola—							
Motor spirit ..	5,437	4,913	4,609	5,407	6,082	9,982	11,700
Kerosene ..	883	729	703	857	(a)	(a)	(a)
Gas oil and fuel oil ..	2,045	1,888	1,624	2,357	3,500	1,458	4,083
Lubricating oil ..	627	823	834	783	(a)	(a)	(a)
Belgian Congo—							
Motor spirit ..	(a)	(a)	36,148	28,382	33,592	(a)	(a)
Kerosene ..			2,743	4,237	4,688		
Fuel oil, etc. ..			8,439	5,028	5,535		
Lubricating oil and greases ..			5,613	4,218	2,848		
Petroleum jelly ..			—	7	33		
Paraffin wax ..		20	—	1			

(a) Information not available.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Cameroon (French)—							
Motor spirit	5,686	6,806	5,743	4,497	5,923	7,889	8,014
Kerosene	1,031	678	1,076	758	991	1,624	1,774
Fuel oil	714	947	821	832	1,031	1,453	1,524
Lubricating oil	283	477	776	792	368	784	715
Canary Islands—							
Petroleum products (b) ..	(a)	(a)	(a)	(a)	141,596	831,434	945,834
Cape Verde Islands—							
Motor spirit	238	104	75	127	} (a)	} (a)	} (a)
Kerosene	333	69	87	185			
Fuel oil (b)	38,196	3,869	15,166	9,075			
Ceuta—							
Petroleum products (b) ..	(a)	(a)	(a)	(a)	14,003	44,879	259,232
Egypt—							
Crude petroleum	10,393	10	—	—	—	5	(a)
Motor spirit	127,136	423,408	473,491	191,387	149,281	31,962	29,700
Turpentine substitute	159	292	409	2,206	1,011	1,062	(a)
Kerosene	170,610	217,050	241,930	472,822	480,784	533,956	444,000
Fuel oil	} 170,668	} 285,963	} 613,421	} 903,115	} 1,026,797	721,290	675,000
Gas oil						183,309	132,000
Diesel oil						132,345	137,000
Lubricating oil	17,449	24,761	19,555	29,977	19,143	24,351	(a)
Petroleum jelly	220	144	97	323	284	251	(a)
Paraffin wax	678	128	46	134	394	156	(a)
Ozokerite and ceresin	1	—	—	2	—	10	(a)
Asphalt and bitumen	167	44	60	784	570	620	(a)
Ethiopia—							
Motor spirit	} (a)	} (a)	} (a)	} (a)	(c) 6,081	(c) 8,147	(d) 6,770
Kerosene					(c) 1,782	(c) 2,164	(d) 1,527
Fuel oil, gas oil, etc.					(c) 6,192	(c) 10,101	(d) 9,898
French Equatorial Africa—							
Aviation spirit	2,235	6,779	1,690	291	923	1,568	} 17,382
Motor spirit	10,953	16,405	10,407	6,741	9,856	12,773	
Kerosene	860	919	1,558	903	1,238	1,939	1,982
Gas oil	779	1,760	1,589	851	1,302	1,238	} 2,661
Fuel oil	206	713	79	276	81	721	
Lubricating oil	829	2,065	1,282	717	745	1,297	1,476
Grease	93	191	90	50	17	56	(a)
French Somaliland—							
Motor spirit	} 1,524	} 462	} 2,497	} 1,714	} 1,781	} 2,524	} 3,430
Kerosene							
Lubricating oil							
French Togoland—							
Crude petroleum	16	20	2	3	34	7	(a)
Motor spirit	82	9	638	358	510	950	1,458
Kerosene	16	11	405	402	466	916	1,034
Fuel oil	3	1	371	93	309	817	475
Lubricating oil	—	—	75	181	57	118	148
French West Africa—							
Motor spirit	8,408	5,489	11,779	15,846	} 70,781	35,498	40,928
Kerosene	106	179	2,518	5,647		11,850	12,181
Fuel oil	158	120	6,031	4,881		19,661	12,265
Lubricating oil	701	788	1,618	4,109		3,771	6,585
Madagascar—							
Motor spirit	1,576	} 567	1,840	5,346	7,688	12,623	21,500
Kerosene	529		1,637	2,116	2,290	2,164	4,200
Fuel oil, gas oil, etc.	1,193		1,754	1,527	10,200	2,500	3,900
Road oil, etc.	—	} 507	—	—	—	1,100	—
Lubricating oil	88		565	1,856	1,120	1,540	1,960
Melilla—							
Petroleum products	(a)	(a)	(a)	(a)	6,431	10,769	9,363

(a) Information not available.

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

(c) Years ended September 10.

(d) Year ended November 30.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Morocco (French)—							
Crude petroleum ..	4,067	1,105	6,776	14,150	6,344	10,957	28,139
Motor spirit	17,156	5,568	16,396	43,873	32,546	61,586	168,553
Kerosene	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Gas oil	9,741	900	8,715	24,189	17,894	25,476	49,222
Fuel oil	4,039	2,660	3,253	17,401	10,695	55,600	122,552
Lubricating oil ..	566	469	2,399	4,287	3,344	6,451	9,940
Grease	3	11	225	483	405	444	1,079
Paraffin wax .. .	169	256	—	1,849	2,077	1,901	6,090
Asphalt and bitumen ..	—	—	589	7,110	63	9	919
Morocco (Spanish)—							
Crude petroleum ..				(a)	(a)	983	173
Motor spirit				5,669	7,397	8,350	10,087
Kerosene				(a)	(a)	870	1,445
Gas oil	(a)	(a)	(a)	1,311	2,392	1,991	2,196
Fuel oil				296	132	149	265
Lubricating oil and grease				311	558	400	1,643
Paraffin wax				21	99	37	106
Asphalt				96	519	266	281
Mozambique—							
Motor spirit	9,270	8,640	8,685	9,205	10,085	13,103	(a)
Kerosene	3,507	4,117	3,640	3,812	4,123	5,093	
Fuel oil	5,970	6,543	4,947	5,734	5,013	6,112	
Lubricating oil ..	1,512	1,495	1,309	1,881	1,632	1,749	
Paraffin wax	48	37	4	47	49	46	
Petroleum jelly ..	10	6	3	13	10	12	
Asphalt and bitumen (b)	486	1,027	220	199	355	(a)	
Portuguese Guinea—							
Motor spirit	553	40	144	338	382	750	584
Kerosene	209	—	52	142	139	172	281
Fuel oil	222	78	170	200	158	271	204
Lubricating oil ..	20	26	14	35	25	72	118
Réunion—							
Motor spirit	2	3	183	731	695	987	13,838
Kerosene	—	—	216	479	395	326	
Heavy oils	103	1	30	138	174	199	
Grease	—	—	—	10	15	6	
S. Thomé and Príncipe—							
Motor spirit	166	51	132	116	(a)	(a)	(a)
Kerosene	78	28	38	38			
Fuel oil	22	46	20	48			
Tunis—							
Motor spirit	7,393	415	5,748	21,234	19,342	32,317	39,101
Kerosene	4,508	1,964	576	6,447	8,713	15,746	14,887
Fuel oil	3,300	2,087	—	461	2,685	5,438	19,287
Gas oil	13,177	979	5,920	25,987	20,836	28,677	52,608
Road oil	32	18	—	—	—	—	—
Lubricating oil ..	493	233	154	10	4,563	6,608	4,606
Petroleum jelly ..	—	—	—	—	18	26	9
Paraffin wax .. .	16	3	—	67	194	9	117
Asphalt and bitumen ..	488	79	—	—	—	—	—
Costa Rica (c)—							
Motor spirit	12,000	11,000	9,000	13,000	17,147	16,385	(a)
Kerosene	1,272	2,291	2,673	2,291	2,297	(a)	
Diesel oil	19,000	5,716	8,231	11,469	18,417	16,906	
Fuel oil	31,000	18,363	16,826	34,189	26,856	29,028	
Lubricating oil ..	(a)	978	1,271	1,594	1,413	2,157	
Grease	121	73	160	131	103	117	
Petroleum jelly ..	20	8	51	17	24	18	
Paraffin wax .. .	1,146	682	337	781	267	584	
Asphalt	3,235	487	1,248	1,752	59	955	

(a) Information not available.

(b) Including coal tar and pitch.

(c) Total imports.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Cuba (b)—							
Crude petroleum	152,274	112,627	107,263	80,562	114,767	137,252	206,600
Aviation spirit	(a)	(a)	(a)	(a)	(a)	(a)	15,333
Motor spirit	53,765	45,962	23,210	26,169	36,093	73,566	151,127
Kerosene	30	32	161	679	511	(a)	—
Fuel oil	728,007	672,851	895,921	986,478	1,031,254	1,357,760	1,213,479
Gas oil	—	2,690	7,586	11,116			
Lubricating oil	12,034	10,582	9,095	9,683	—	11,772	11,621
Residual oils	—	—	10,473	—	—	—	—
Petroleum jelly	623	478	781	1,006	—	—	—
Greases	2	1	1	9	7	—	—
Paraffin wax	1,607	1,459	1,069	2,095	1,211	(a)	(a)
Asphalt rock	6	4	4,103	—	200		
Other asphalt	8,509	209	6	91	24	—	—
Bitumen	176	182	162	179	229	—	—
Petroleum coke	3,991	5,958	13,132	3,469	2,980	—	—
Dominican Republic (b)—							
Motor spirit	15,000	10,000	10,000	11,152	11,873	(a)	(a)
Kerosene	4,000	3,000	2,000	2,536	3,832		
Fuel oil	35,000	21,000	29,000	27,759	21,810	—	—
Lubricating oil	1,400	1,100	1,700	1,684	1,532	—	—
Other oils	4,000	1,000	3,000	972	696	—	—
French West Indies—							
Guadeloupe—							
Motor spirit	3,312	1,122	1,193	3,092	3,947	6,027	10,558
Kerosene							
Fuel oil and lubricating oil	1,465	2,647	3,507	2,537	3,354	5,228	—
Martinique—							
Motor spirit	2,526	1,397	742	2,177	3,348	4,468	6,201
Kerosene	1,059	367	964	1,049	871	1,055	1,817
Fuel oil	6,182	4,638	2,255	4,638	4,054	4,455	5,441
Lubricating oil	450	143	156	251	658	444	304
Guatemala—							
Crude petroleum, etc.	110,000	67,000	42,000	72,000	79,000	93,000	132,000
Aviation spirit	(a)	(a)	(a)	(a)	900	5,600	7,400
Motor spirit	6,300	8,800	6,900	6,700	5,000	19,000	24,000
Kerosene	3,000	2,400	1,900	2,300	2,800	3,000	4,000
Diesel oil	13,800	7,500	11,300	19,900	25,000	22,000	14,000
Lubricating oil	1,500	1,300	1,500	1,500	1,800	(a)	(a)
Grease	142	154	118	162	174	(a)	(a)
Asphalt	3,991	1,975	1,663	2,989	344	(a)	(a)
Paraffin wax, etc.	1,156	489	593	1,118	870	(a)	(a)
Haiti (d)—							
Motor spirit	7,918	6,885	5,279	7,115	9,400	11,200	14,500
Kerosene	2,418	2,800	509	2,164	2,990	3,800	3,970
Fuel oil	4,229	5,542	3,938	4,083	3,900	7,000	9,130
Lubricating oil	420	420	280	560	580	500	540
Honduras (c)—							
Motor spirit	6,800	4,600	7,700	5,600	7,886	9,536	(a)
Kerosene, etc.	1,000	500	800	700	932	962	
Fuel oil	88,700	19,700	55,300	57,600	85,000	95,371	—
Lubricating oil	900	900	900	800	4,502	1,491	—
Mexico—							
Crude petroleum	17,861	14,645	61,552	8,963	11,023	23,277	(a)
Motor spirit	43,027	42,184	27,335	41,674	54,740	118,625	
Kerosene	1,053	1,468	2,573	4,140	5,512	10,165	—
Gas oil	11,119	3,992	5,645	10,016	13,760	15,750	—
Fuel oil	27,342	18,895	30,605	48,714	47,419	101,094	—
Lubricating oil	19,036	17,430	26,182	28,699	39,862	37,472	—

(a) Information not available.

(b) Total imports.

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

(d) Years ended September 30.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Mexico (Cont.)—							
Grease	1,720	1,964	1,919	2,326	2,772	3,738	} (a)
Paraffin wax	15,446	3,121	3,917	8,217	4,736	12,689	
Petroleum jelly	390	297	396	940	670	1,048	
Asphalt	163	172	392	1,411	357	3,050	
Asphalt rock	6	36	392	42	2	13	
Natural gas (1,000 cu. ft.)	8,020,662	9,737,703	11,723,062	14,001,756	18,451,916	17,704,679		17,595,653
Netherlands West Indies—							
Crude petroleum	21,518,000	12,538,000	20,250,000	25,389,000	29,500,000	33,069,000	37,478,000
Aviation spirit	(a)	(a)	(a)	(a)	31,000	500	3,800
Motor spirit	180,000	205,000	112,000	95,000	78,600	2,980	23,400
Kerosene	10,800	—	—	2,100	(a)	(a)	(a)
Fuel oil	2,068,000	487,000	951,000	711,000	2,211,700	1,614,600	1,702,000
Diesel oil	} 247,000	} 376,000	} 35,000	} 243,000	} 233,600	} 58,400	} (a)
Gas oil							
Lubricating oil	3,800	2,800	—	100	140	700	840
Nicaragua (c)—							
Motor spirit	7,476	5,407	11,749	8,824	10,026	11,397	} (a)
Kerosene	2,025	1,477	1,204	1,881	1,557	2,391	
Fuel oil	30,882	13,997	31,045	20,483	31,209	23,630	
Lubricating oil	1,043	928	1,255	1,649	1,581	1,502	
Panama—							
Motor spirit	34,600	36,700	27,400	25,200	39,000	35,000	39,000
Kerosene	5,700	6,700	5,800	3,300	8,000	8,000	9,000
Diesel oil	12,300	13,200	6,900	7,700	14,000	18,000	21,000
Fuel oil	76,500	73,400	63,800	46,000	72,000	75,000	73,000
Lubricating oil	2,700	4,000	1,500	2,100	6,580	6,720	2,800
St. Pierre and Miquelon—							
Motor spirit	} 338	} 598	} 625	} 165	} 549	} 869	} 312
Gas oil and fuel oil							
Salvador—							
Motor spirit	6,100	5,500	4,000	4,700	6,100	11,200	} (a)
Kerosene	2,400	1,650	1,140	1,140	1,780	2,500	
Fuel oil	17,400	17,800	17,500	27,100	9,900	21,600	
Diesel oil	4,900	4,780	4,230	4,230	4,370	7,380	
Lubricating oil and grease	700	770	610	460	650	790	
Asphalt	1,373	680	1,740	1,200	800	—	
United States—							
Crude petroleum	7,433,000	1,934,000	1,972,000	6,406,000	10,571,973	12,744,299	13,577,398
Motor spirit, etc.	118,876	106,051	733,052	600,608	458,377	14,796	(b) 54,458
Kerosene	31,854	74,438	70,907	44,222	24,850	(a)	9
Other spirit	3	19,578	(d)	(d)	(d)	(d)	(d)
Fuel oil	5,079,948	2,495,354	3,731,255	5,545,885	4,947,192	6,931,419	8,541,194
Gas oil and diesel oil	760,987	512,655	2,057,566	1,726,475	2,830,801	1,394,589	574,624
Unfinished distillates and topped oils	989,000	444,708	175,695	1,449	144	3,326	18,135
Lubricating oil, etc.	1,065	1,026	636	387	921	12,661	6,252
Road oil, etc.	69,179	40,717	8,179	2,073	3,526	22,425	19,695
Paraffin wax, etc.	7,385	(c) 4,352	(c) 48	—	832	131	435
Ozokerite and ceresin	5	(c) 6	5	—	—	—	10
Petroleum jelly	—	29	5	—	—	—	42
Asphalt (petroleum)	59,242	61,284	90,258	111,552	127,502	86,789	163,719
Asphalt and bitumen (natural)	(a)	(a)	7,270	7,353	—	(a)	(a)
Natural gas (1,000 cu. ft.)	(a)	(a)	(a)	—	—	(a)	(a)

(a) Information not available.

(b) Excess of re-exports.

(c) Total imports.

(d) Included with "Motor spirit."

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947	
FOREIGN COUNTRIES (Cont.)								
Argentina—								
Crude petroleum ..	487,347	283,770	132,167	133,281	140,937	896,493	} (a)	
Motor spirit	536	164	8	17	308	14,596		
Kerosene	4	5,314	18,238	4,568	172	11,512		
Gas oil	37,922	13,496	—	4	2,411	2,450		
Fuel oil	1,040,762	607,052	234,830	235,011	317,115	2,017,763		
Diesel oil	224,528	60,121	45,539	8,040	60,282	190,191		
Lubricating oil ..	2,044	2,110	3,790	3,268	2,400	7,778		
Petroleum jelly ..	431	498	99	394	499	441		
Grease	98	55	24	29	53	99		
Paraffin wax .. .	5,175	2,060	29	—	180	868		
Ozokerite and ceresin ..	14	12	—	—	4	175		
Asphalt for paving ..	50	460	60	100	5	10		
Asphalt for roofing ..	2,055	1,919	60	38	75	220		
Other asphalt and bitumen	341	58	—	—	—	265		
Pitch	—	—	—	—	25	22		
Bolivia—								
Crude petroleum ..	50,000	53,000	55,000	} (a)	} (a)	} (a)	} (a)	
Aviation spirit .. .	2,000	2,900	2,300					
Motor spirit	8,500	11,100	14,200					
Kerosene	1,400	900	1,700					
Lubricating oil and grease	2,600	4,000	3,900					
Paraffin wax	1,750	390	620					
Tar, pitch, etc. .. .	780	2,340	440	2,460	960	65,000	2,400	
Brazil (total imports)—								
Crude petroleum ..	45,414	10,987	36,001	17,807	9,823	36,135	8,558	
Motor spirit	360,850	247,073	270,651	298,911	405,083	613,996	918,181	
Kerosene	89,709	51,794	68,262	63,212	53,311	105,775	135,548	
Gas oil	11,390	11,484	23,059	25,279	13,083	14,718	7,654	
Diesel oil	75,203	74,724	66,752	72,516	98,587	137,651	} 1,287,144	
Fuel oil	433,095	302,198	295,482	216,977	296,112	659,726		
Lubricating oil ..	53,434	47,196	34,664	70,988	67,475	51,011		
Transformer oil ..	1,975	1,151	835	2,388	1,154	1,021		
Petroleum jelly ..	770	502	665	3,243	2,133	855		
Greases	459	456	92	633	604	854		
Paraffin wax	1,273	755	716	1,673	1,681	1,418		
Asphalt and bitumen ..	24,476	15,383	5,526	27,854	9,230	6,331		
Chile—								
Crude petroleum ..	759,076	673,792	781,143	666,257	571,083	831,739		(a)
Motor spirit	120,295	100,934	89,359	88,925	101,249	160,420	202,076	
Kerosene	10,526	13,754	10,860	14,143	16,097	22,187	24,436	
Diesel oil	43,833	56,362	81,884	43,755	90,248	66,672	72,734	
Fuel oil	194	5,126	1,354	45,829	78,895	22,186	(a)	
Lubricating oil ..	16,358	16,133	15,014	14,880	14,314	14,027	18,200	
Petroleum jelly ..	142	46	88	159	114	58	(a)	
Greases	650	510	651	719	641	660	(a)	
Ozokerite	8	2	1	3	3	7	(a)	
Natural asphalt ..	130	211	733	396	85	485	(a)	
Paraffin wax	5,541	4,936	1,467	4,880	6,687	4,377	5,750	
Tar and pitch	3,555	4,616	2,400	3,077	6,401	6,371	(a)	
Colombia—								
Motor spirit	15,693	22,708	14,866	21,264	24,773	66,222	} (a)	
Kerosene	46	45	16	(a)	24	36		
Fuel oil and gas oil ..	52,266	15,655	10,589	2,420	15,375	23,206		
Diesel oil	(a)	(a)	(a)	137	—	247		
Lubricating oil, etc. ..	4,988	1,828	3,707	4,760	6,093	6,011		
Petroleum jelly ..	130	39	139	152	140	148		
Paraffin wax	8,569	2,768	2,276	5,279	5,910	6,285		
Asphalt	84	26	35	206	409	294		

(a) Information not available.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Ecuador—							
Motor spirit	(a)	(a)	(a)	{ 1,262 1,944 (a)	1,951 1,680 590	3,442 2,240 665	(a)
Lubricating oil and greases							
Asphalt and bitumen							
French Guiana—							
Motor spirit	338	300	192	388	329	380	1,405
Kerosene	440	132	135	304	142	253	
Fuel oil, etc.	453	219	313	254	183	373	
Paraguay—							
Motor spirit	6,400	(a)	(a)	{ 4,820 1,018 1,166 538 980 — (a)	3,787 1,018 — 404 140 9,448 (a)	8,721 2,673 437 269 280 98 (a)	(a)
Kerosene	3,900						
Fuel oil, etc.	(a)						
Gas oil	(a)						
Lubricating oil	(a)						
Paraffin wax	(a)						
Asphalt, tar, etc.	3,253						
Peru—							
Crude petroleum	—	23	—	—	1,909	1,260	(a)
Motor spirit and gas oil	2,875	8,680	3,708	532	2,292	5,499	
Kerosene	11	569	6	7	—	1	
Lubricating oil	4,894	4,852	4,925	5,722	3,954	5,912	
Petroleum jelly	170	178	883	216	173	265	
Paraffin wax	3,894	1,122	(a)	2,724	3,144	1,851	
Asphalt and bitumen	117	72	87	149	301	74	
Greases	221	(a)	(a)	461	204	356	
Ozokerite	16	4	7	11	16	9	
Natural asphalt	130	211	733	396	85	485	
Uruguay—							
Crude petroleum	129,508	(a)	(a)	176,570	300,280	264,850	405,850
Motor spirit, etc.	—	—	8	1,156	15,950	16,639	41,655
Kerosene	—	5,565	(a)	(a)	(a)	(a)	(a)
Gas oil	7,901	(a)	(a)	5,239	(a)	(a)	(a)
Fuel oil, etc.	239,685	303,744	228,117	57,780	133,800	204,000	179,900
Lubricating oil and greases	5,832	5,124	3,529	3,022	7,140	10,780	(a)
Paraffin wax	(a)	(a)	89	153	(a)	(a)	(a)
Petroleum jelly	(a)	(a)	115	103	(a)	(a)	(a)
Asphalt and bitumen	(a)	(a)	762	3,143	(a)	(a)	(a)
Venezuela—							
Motor spirit	3,222	11,955	4,518	(a)	{ (b) 778 (a) (a) (a) (a) (a) (a) (a) (a) (a)	{ (b) 2,556 (a) (a) (a) (a) (a) (a) (a) (a) (a)	(a)
Turpentine substitute	24	5	5				
Kerosene	1,421	3,076	563				
Gas oil	—	—	—				
Fuel oil	5	9,406	12				
Lubricating oil	10,100	7,374	11,877				
Paraffin wax	2,257	641	846				
Petroleum jelly	87	57	73				
Natural gas	564	827	1,187				
Asphalt, bitumen, etc.	1,193	505	743				
China—							
Motor spirit	84,342	115	115	1,721	5,164	(a)	(a)
Kerosene	25,491	255	—	—	1,782	234,308	303,824
Fuel oil and diesel oils	173,063	—	—	—	1,413	337,750	1,249,208
Lubricating oil	25,200	420	140	1,540	560	56,009	55,970
Paraffin wax	19,981	396	87	12	—	5,096	5,623
Asphalt	(a)	(a)	(a)	(a)	(a)	12,699	17,076

(a) Information not available.

(b) Aviation spirit only.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947			
FOREIGN COUNTRIES (Cont.)										
French Indo-China—										
Motor spirit	} 51,076	15,820	(a)	(a)	(a)	} 7,700	20,000			
Kerosene								1,600		
Fuel oil								5,000		
Gas oil								(a)		
Lubricating oil								1,400		
Iran (c) (b)—										
Crude petroleum	118	—	72	429	} (a)	(a)	(a)			
Motor spirit	512	204	3,472	689						
Kerosene	—	1,484	20,886	11,327						
Fuel oil	—	1,100	4,608	(a)						
Lubricating oil	16,755	5,602	14,477	(a)						
Greases	75	—	—	572						
Paraffin wax and petroleum jelly	289	644	63	19						
Asphalt, tar and bitumen	19	106	337	(a)						
Iraq—										
Crude petroleum	86,335	103,568	51,943	120,848				131,234	(a)	(a)
Motor spirit	5,563	7,082	7,606	8,308	9,546	14,918	(a)			
Kerosene	5,749	6,573	11,778	11,959	17,284	(a)	(a)			
Fuel oil	—	121	148	1	(a)	(a)	(a)			
Lubricating oil	3,230	7,009	3,971	9,183	6,307	(a)	(a)			
Greases	89	89	119	118	(a)	(a)	(a)			
Asphalt and bitumen	512	504	91	1,107	(a)	(a)	(a)			
Japan—										
Crude petroleum (d)	400,000	1,100,000	1,300,000	200,000	(a)	(a)	(a)			
Motor spirit	} 700,000	300,000	600,000	400,000	(a)	} 48,224	145,467			
Kerosene								18,152		
Other refined products								260,285		
Netherlands East Indies—										
Crude petroleum (e) —	} (a)	(a)	(a)	(a)	(a)	} (a)	(a)			
Motor spirit (e) 5,286								64,834		
Kerosene (e) 4,706								7,000		
Fuel and gas oils (a)								54,824		
Lubricating oil (e) 13,938								4,340		
Asphalt (e)(f) 10,200								(a)		
Portuguese India—										
Motor spirit	1,541	1,033	794	883	797	} (a)	(a)			
Kerosene	3,047	1,551	1,431	1,524	1,653					
Lubricating oils	499	226	237	199	284					
Other oils	1,045	762	1,500	1,016	994					
Syria and Lebanon—										
Crude petroleum	95,503	139,270	143,313	187,927	2,093,127	—	(a)			
Motor spirit	12,687	58,693	49,598	19,135	17,327	8,951	29,720			
Kerosene	14,773	15,177	20,384	18,511	24,089	13,967	—			
Fuel oil and diesel oil	2,593	10,972	37,506	24,426	40,968	30,794	33,979			
Lubricating oil	591	1,729	1,675	2,305	3,277	2,548	5,600			
Paraffin wax	30	—	29	41	57	70	(a)			
Petroleum jelly	10	9	2	4	11	48	(a)			
Asphalt and bitumen	1,939	73	105	239	13	3,334	19,365			

(a) Information not available.

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

(c) Total imports.

(d) U.S. Bureau of Mines Foreign Minerals Survey estimate for years 1941 to 1944 (excluding imports from Formosa and Sakhalin.)

(e) January to October only.

(f) Java and Madura only.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Turkey—							
Motor spirit	(a)	(a)	(a)	54,874	38,383	65,518	94,369
Kerosene				32,368	41,732	44,906	63,223
Heavy oil, etc.				50,547	57,137	56,116	74,261
Paraffin wax and petroleum jelly				1,178	640	1,125	1,273
Ozokerite and ceresin				—	1	—	4
French Oceania—							
Motor spirit	1,979	1,820	2,680	3,204	3,334	3,718	4,049
Kerosene							
Other oils							
New Caledonia—							
Motor spirit	1,882	958	1,205	1,655	2,295	3,756	6,833
Kerosene	616	1,197	655	490	764	498	1,674
Fuel oil	748	882	591	869	1,504	1,894	5,361
Lubricating oil, etc.	283	235	281	380	140	163	436

(a) Information not available.

PHOSPHATES
PRODUCTION OF PHOSPHATE-ROCK
 (Long tons)

Producing Country	Estimated Tribasic Phosphate of Lime Content or equivalent.													
	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950				
BRITISH COUNTRIES														
Eire	7,449	16,184	16,979	19,662	21,761	11,545	10,610	3,600	7,800	8,100	9,400	13,300	5,500	5,100
Seychelles (exports) (b) .. .	18,206	21,716	1,791	5,755	6,867	20,726	14,061	(a)	(a)	(a)	(a)	(a)	(a)	(a)
South West Africa (b) .. .	170	99	162	—	27	1,638	2,188	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Tanganyika Territory .. .	32	25	263	28	9	275	217	20	15	160	20	6	160	130
Uganda .. .	—	—	—	1,000	8,511	7,099	6,495	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Union of South Africa .. .	2,221	1,129	5,709	20,755	26,911	37,096	38,933	140	3	1,900	6,800	9,400	13,000	13,700
Canada .. .	181,670	8,900	(d) 10,296	430	267	51	—	1,843	937	1,075	360	200	40	—
Christmas Island (c) .. .	80	332	1,196	(d)	524	243	(a)	155,000	7,600	9,000	—	5,000	30,000	91,000
India .. .	8,513	14,074	12,933	228	9,197	20	(a)	4,700	270	970	180	400	160	(a)
Australia .. .	107,350	—	—	6,316	—	—	—	92,000	7,700	7,000	3,500	5,200	11	3,000
Nauru Island .. .	236,000	—	—	—	—	—	—	203,000	—	—	—	—	75,000	326,000
Ocean Island .. .	—	—	—	—	—	—	—	—	—	—	—	—	—	—
New Zealand .. .	—	—	9,241	19,931	7,956	11,047	200	—	—	3,600	7,800	3,100	4,300	800
TOTAL .. .	533,000	78,000	59,000	74,000	88,000	210,000	575,000	—	—	3,600	7,800	3,100	4,300	800
FOREIGN COUNTRIES														
Belgium .. .	98,134	253,716	421,596	129,623	(a)	68,823	36,366	45,000	117,000	194,000	60,000	(a)	32,000	17,000
France .. .	97,100	111,600	128,950	91,500	74,267	95,749	99,513	33,000	30,000	30,000	23,000	8,000	(a)	(a)
Germany (d) .. .	1,300	1,000	1,000	1,000	500	—	—	700	500	500	500	270	—	—
Norway .. .	—	—	2,232	2,215	1,296	—	—	—	3,700	1,300	1,400	800	—	—
Poland (d) .. .	5,000	10,000	10,000	7,000	5,000	10,000	—	1,900	3,700	3,700	2,600	1,900	3,700	—
Spain .. .	13,627	14,988	15,474	17,490	20,031	18,318	19,487	8,700	14,000	10,000	11,200	13,000	12,000	12,800
Sweden .. .	98,036	78,203	123,305	158,553	168,424	49,929	7,594	50,000	25,548	75,900	86,400	109,700	35,000	5,200
U.S.S.R. (d) .. .	1,330,000	1,000,000	1,000,000	1,000,000	1,600,000	1,600,000	2,000,000	900,000	700,000	700,000	700,000	1,070,000	1,060,000	1,320,000

(a) Information not available.

(b) Phosphatic guano.

(c) Exports.

(d) Estimated by International Superphosphate Manufacturers' Association.

PRODUCTION OF PHOSPHATE-ROCK (Cont.)

Producing Country	Estimated Tribasic Phosphate of Lime Content or equivalent.													
	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950				
FOREIGN COUNTRIES (Cont.)														
Algeria	434,556	329,266	75,600	216,870	395,000	575,600	695,700	280,000	215,000	50,000	140,000	237,000	374,000	453,000
Egypt	109,944	323,253	310,582	313,160	343,698	289,403	365,363	72,000	210,000	202,000	203,000	224,000	188,000	237,000
French West Africa	—	—	—	94	—	—	200	—	—	—	(a)	—	—	(a)
Morocco (French)	505,724	704,110	793,438	1,422,082	1,627,995	2,739,675	2,913,966	369,000	514,000	590,000	1,066,000	1,180,000	1,970,000	2,100,000
Tunis	1,059,124	865,846	329,394	513,997	695,200	1,377,700	1,727,500	635,000	528,000	198,000	323,000	438,000	868,000	1,090,000
Netherlands West Indies	111,881	21,088	7,783	7,813	10,256	(b)73,860	(b)79,549	87,000	16,000	6,000	6,000	7,800	56,000	60,000
Netherlands East Indies	4,922,183	4,818,938	5,369,967	5,200,002	5,399,739	7,168,839	9,121,081	3,544,000	3,470,000	3,520,000	3,657,000	3,796,000	5,061,000	6,427,000
United States	28,668	24,516	37,325	14,149	12,994	—	48,460	18,900	16,200	25,200	9,300	8,600	(a)	32,000
Chile	69,987	125,830	83,155	7,040	—	—	—	56,000	100,000	66,000	5,600	—	(a)	(a)
French Indo-China	70,000	80,000	70,000	75,000	(a)	(a)	(a)	35,000	40,000	35,000	37,000	(a)	(a)	(a)
China (estimated)	230,000	275,000	198,000	52,000	(a)	(d)100,000	(d)175,000	123,000	153,000	101,000	26,000	(a)	70,000	120,000
Japanese Islands (c)	1,000	27,000	24,000	33,000	(a)	(a)	(a)	500	13,000	11,500	16,000	(a)	(a)	(a)
Korea	25,700	2,000	2,000	2,000	2,000	—	—	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Netherlands East Indies	2	2,774	5,299	5,644	4,867	4,024	6,058	1	2,000	3,900	4,000	3,200	2,600	4,000
Transjordan (b)	132,000	125,000	96,000	26,000	(a)	(c)	(c)	103,000	91,000	70,000	20,000	(a)	(c)	(c)
Angaur Island (b)	189,201	172,301	185,411	200,000	255,000	237,300	193,330	157,000	143,000	150,000	160,000	214,000	190,000	172,000
French Oceania	—	—	—	—	—	—	—	—	—	—	—	—	—	—
TOTAL	9,542,000	9,346,000	9,329,000	9,544,000	10,700,000	14,410,000	17,500,000	10,075,000	10,790,000	10,790,000	14,620,000	18,100,000	18,100,000	18,100,000
WORLD'S TOTAL	10,075,000	9,424,000	9,388,000	9,618,000	10,790,000	14,620,000	18,100,000	10,075,000	10,790,000	10,790,000	14,620,000	18,100,000	18,100,000	18,100,000

(a) Information not available.

(b) Exports.

(c) Other than Angaur Island.

(d) Estimated by International Superphosphate Manufacturers' Association.

(e) Included with "Japanese Islands."

PRODUCTION OF SUPERPHOSPHATES

(Long tons)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom	648,100	778,700	802,400	859,100	906,600	962,200	966,400
Eire	36,000	20,000	50,500	60,800	(f) 82,840	(f) 129,795	(f) 141,245
Union of South Africa (d)	191,582	177,141	121,371	208,929	221,430	275,686	288,395
Canada (d)	113,993	157,709	172,698	178,389	210,797	205,000	228,922
Australia (d)	890,428	631,318	465,013	543,690	829,453	1,105,304	1,170,489
New Zealand (b)	338,046	298,127	246,193	361,013	426,826	534,224	560,000
FOREIGN COUNTRIES							
Belgium	—	6,257	—	1,200	(d) 307,800	448,717	603,107
Czechoslovakia*	(g) 41,612	(g) 36,708	(g) 1,196	(g) 4,250	390	78,864	199,897
Denmark	58,200	—	—	—	62,884	296,533	369,100
Finland	12,308	14,837	9,673	447	19,359	111,762	(a)
France	266,145	74,237	33,524	5,286	125,005	1,095,761	1,406,630
Germany*	60,177	45,591	44,331	13,340	15,445	(e) 160,000	(e) 345,000
Greece*	1,793	—	—	—	21,629	73,236	71,758
Hungary*	50,532	44,213	23,341	3,406	853	2,136	(e) 16,000
Italy	1,089,000	749,283	62,054	19,116	173,661	(e) 620,000	1,018,765
Netherlands	15,831	117	—	—	83,175	580,525	623,565
Norway	14,637	2,183	2,590	7,034	11,299	18,278	25,456
Poland	(e) 7,500	(e) 15,000	(e) 15,000	(e) 10,000	(e) 25,000	(c) 156,633	(c) 161,188
Portugal	182,576	265,757	207,379	340,469	289,492	235,564	239,763
Spain	236,200	564,698	276,660	330,232	544,900	324,670	351,780
Sweden	162,871	116,911	219,914	261,581	297,969	332,388	295,871
Switzerland	23,381	28,154	26,305	17,488	12,043	24,297	21,751
U.S.S.R. (e)*	1,000,000	1,000,000	1,000,000	1,000,000	1,600,000	1,600,000	2,000,000
Yugoslavia*	—	—	—	—	(e) 17,000	(e) 40,000	(e) 40,000
Canary Islands	—	—	3,829	6,976	10,202	5,088	3,822
Egypt*	16,106	11,873	15,435	14,418	15,835	14,972	21,707
Algeria	—	—	—	—	48,500	—	—
Tunis	—	—	—	—	8,810	—	—
Morocco	—	—	—	—	26,430	—	—
United States*(h)	4,736,634	5,312,531	6,314,204	6,644,597	7,289,326	7,769,053	9,209,566
Japan	1,231,000	559,000	552,000	110,000	10,830	168,512	697,739
Turkey	—	—	—	—	5,277	3,744	4,397
World's Total*	11,666,596	10,742,484	10,692,268	11,327,088	13,593,484	17,376,581	21,457,433

* International Superphosphate Manufacturers' Association's "Superphosphate Statistics."

(a) Information not available.

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

(c) Including bone meal.

(d) Years ended June 30 of that stated.

(e) Estimated by International Superphosphate Manufacturers' Association.

(f) Including phosphate in compounds.

(g) Excluding Sudetenland.

(h) Including Triple superphosphate converted to ordinary superphosphate.

PRODUCTION OF BASIC SLAG

(Long tons)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Great Britain (b)	521,467	546,909	599,673	522,238	537,685	587,156	538,546
Eire	(a)	(a)	(a)	(a)	(a)	(a)	(a)
FOREIGN COUNTRIES							
Belgium	(a)	(a)	(a)	(a)	(a)	859,618	536,333
France	439,645	521,672	629,360	472,469	165,522	578,268	686,490
Germany (P_2O_5 Content)(c)	351,007	421,398	365,652	205,000	(a)	(a)	(a)
Sweden	13,699	14,959	14,462	16,438	12,972	12,780	(a)
Japan	86,000	81,000	76,000	65,000	(a)	(a)	(a)

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

(a) Information not available.

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

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

EXPORTS OF PHOSPHATES, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Superphosphates ..	2,050	51	208	120	10,869	1,436	4,052
Basic slag	58	—	4	3	196	1,631	1,053
Seychelles—							
Phosphatic guano ..	18,206	21,716	1,791	5,755	6,867	20,726	14,061
Tanganyika Territory—							
Phosphates	—	—	18	28	—	—	—
Canada—							
Phosphatic fertilizer ..	68,048	55,315	72,491	121,861	144,016	126,019	145,867
Christmas Island							
Phosphate-rock	181,670	(d) 8,900	(c) 10,000	—	(c) 6,000	33,900	106,600
Palestine—							
Phosphatic fertilizer ..	—	251	2,953	3,270	4,537	4,347	(a)
Australia—							
Superphosphates ..	118	17	12	52	80	202	566
New Zealand—							
Superphosphates ..	49	210	—	3	—	—	—
Nauru and Ocean Islands—							
Phosphate-rock	343,350	—	—	—	—	86,850	383,900
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Phosphate-rock	27,568	43,303	134,164	70,175	4,435	(a)	(a)
Superphosphates ..	374	10	20	—	(a)	(a)	(a)
Di-calcium superphosphate	324	—	—	2	(a)	(a)	(a)
Basic slag	115,989	60,421	63,225	33,578	(a)	(a)	(a)
Czechoslovakia—							
Superphosphates ..	(a)	(a)	(a)	(a)	(a)	—	30
Denmark—							
Superphosphates ..	—	—	—	—	—	152	54
France—							
Phosphate-rock	231,451	783,586	117,123	33,186	1,156	3,384	2
Superphosphates ..	650	15,099	767	295	298	21,448	36,034
Basic slag	—	—	285	640	5,804	56,076	65,192
Germany—							
Phosphate-rock	—	3,237	199	(b) —	} (a)	(a)	(a)
Superphosphates ..	59	1,012	437	(b) 162			
Basic slag	52,633	84,048	97,853	(b) 40,771			
Italy—							
Superphosphates, including bone superphosphates	(a)	(a)	(a)	(a)	(a)	(a)	995
Netherlands—							
Superphosphates ..	—	—	—	(a)	(a)	27,207	207,627
Basic slag	—	—	—	(a)	(a)	36	—
Portugal—							
Superphosphates ..	15	52	(a)	3	43,688	44,087	1,575
Spain—							
Superphosphates, etc. ..	5,471	6,574	6,310	2,410	11,887	87,395	5,944
Sweden—							
Phosphate-rock	—	—	—	1,898	—	308	1,200
Superphosphates ..	—	—	—	4,921	11,318	2,953	(a)

(a) Information not available.

(b) January to July only.

(c) Estimated.

(d) January to April 10 only.

EXPORTS OF PHOSPHATES, ETC. (Cont.)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Switzerland—							
Basic slag	—	—	—	—	—	36	5
U.S.S.R.—							
Apatite	} (c)	(c)	(c)	(c)	(c)	(c)	(c)
Other phosphate-rock ..							
Algeria—							
Phosphate-rock	472,118	308,245	18,334	19,195	311,405	501,945	667,894
Superphosphates	14,366	8,743	3,184	12,518	8,691	8,467	5,192
Egypt—							
Phosphate-rock	—	290,082	205,275	392,110	267,352	307,092	350,756
Morocco (French)—							
Phosphate-rock	637,037	532,589	877,912	1,349,704	1,431,793	2,338,244	3,125,328
Morocco (Spanish)—							
Superphosphates	(a)	(a)	(a)	85	155	168	40
Tunis (including re-exports)—							
Phosphate-rock	837,329	994,186	8,199	24,113	566,106	1,650,368	1,616,674
French Indo-China—							
Apatite	4,290	(b) 50,000	(b) 50,000	(b) 50,000	(a)	(a)	(a)
Netherlands West Indies—							
Phosphate-rock	110,226	20,665	7,783	7,690	(a)	(a)	(a)
United States—							
Phosphate-rock	1,040,655	528,720	358,217	439,265	493,591	633,340	753,317
Superphosphates	146,875	165,092	239,779	183,828	184,961	241,344	232,586
Angaur Island—							
Phosphate-rock	132,000	125,000	96,000	26,000	(a)	(a)	(a)
French Oceania—							
Phosphate-rock	189,221	163,002	194,711	200,092	228,064	228,134	205,026
Japan—							
Superphosphates	128,931	8,851	3,937	—	—	(a)	89,702
Transjordan—							
Phosphate-rock	2	2,774	5,299	5,644	4,867	4,024	6,058

(a) Information not available.

(b) Average annual export.

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

	1941	1942	1943	1944	1945	1946	1947
United Kingdom	—	7,105	21,154	10,071	29,339	—	(a)
Belgium	—	—	—	—	(a)	(a)	(a)
France	—	—	—	—	(a)	(a)	(a)
Germany	69,285	20,090	—	—	(a)	(a)	(a)
Netherlands	—	—	(a)	(a)	(a)	(a)	(a)
Norway	—	—	—	—	25,116	15,979	(a)
Sweden	25,905	—	—	—	51,183	14,742	35,873
United States	—	—	6,114	6,821	—	(a)	—

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

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Phosphate-rock	799,222	287,273	788,785	675,777	642,702	864,035	(c) 910,848
Superphosphates	30,704	73,305	134,115	60,886	70,672	204,203	37,126
Basic slag	—	—	—	—	—	10,152	60,821
Eire—							
Phosphate-rock	6,776	—	18,370	27,525	18,240	79,224	73,300
Superphosphates	2,054	76	68	185	106	11	2,507
Basic slag	—	—	3	55	89	8,587	12,014
Mauritius—							
Phosphatic guano	(a)	(a)	(a)	(a)	2,067	2,934	(a)
Superphosphates	—	—	—	—	—	—	(a)
Southern Rhodesia—							
Superphosphates	5,073	4,437	6,136	11,388	12,486	17,078	14,198
Union of South Africa (total imports)—							
Phosphate-rock	99,206	113,095	139,003	119,562	190,710	188,380	(a)
Superphosphates	3,191	—	—	—	—	5,000	(a)
Basic slag	—	—	—	—	—	—	(a)
Canada—							
Phosphate-rock	211,633	242,297	232,899	346,649	283,656	333,641	433,385
Superphosphates	50,792	61,377	93,277	90,858	59,740	85,297	126,764
Basic slag	3,670	6,376	9,768	15,548	21,567	41,001	44,614
Newfoundland (b)—							
Basic slag	(a)	(a)	(a)	(a)	—	42	—
British West Indies—							
Jamaica—							
Phosphatic fertilizers ..	50	295	149	629	370	546	275
St. Vincent—							
Superphosphates	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Trinidad and Tobago—							
Phosphate-rock	50	—	6	—	—	—	—
Superphosphates	10	125	—	50	142	1,466	3,742
Basic slag	—	—	—	—	—	—	—
British Guiana—							
Superphosphates, basic slag, etc.	203	301	22	(a)	(a)	(a)	(a)
British India—							
Superphosphates	3,862	—	148	1,572	901	60	(d) 330
Other phosphates	97	—	—	—	1,500	2,505	(d) 995
Ceylon—							
Phosphate-rock	11,678	11,373	12,933	15,902	19,196	17,959	16,842
Superphosphates	—	—	—	—	—	1,211	3,414
Basic slag	—	—	—	—	—	100	99
Cyprus—							
Superphosphates	(a)	(a)	(a)	(a)	(a)	(a)	2,835
Malaya—							
Phosphate-rock	(a)	(a)	(a)	(a)	(a)	165	75
Phosphatic fertilizers ..	(a)	(a)	(a)	(a)	(a)	—	1,001
Palestine—							
Phosphate-rock	19	20	991	5,610	6,530	7,628	(a)
Australia—							
Phosphate-rock	347,079	202,942	244,451	422,523	575,353	686,405	550,212
Superphosphates	—	10	—	—	—	—	3,965
New Zealand—							
Phosphate-rock	255,728	109,504	137,305	162,566	214,788	310,502	281,365
Basic slag	—	—	—	—	—	9,930	15,785
Other phosphates	32,735	26,903	—	29,388	26,557	26,432	71,646

(a) Information not available.

(c) Total imports.

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

(d) January to November only.

IMPORTS OF PHOSPHATES, ETC. (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947		
FOREIGN COUNTRIES									
Austria—									
Phosphate-rock	(a)	(a)	(a)	(a)	(a)	9,547	(a)		
Belgium-Luxemburg E.U.—									
Phosphate-rock	9,097	3,263	—	460	(a)	304,194	488,086		
Superphosphates	—	6,083	—	487	(a)	(a)	(a)		
Di-calcium superphosphates	—	—	—	—	(a)	(a)	(a)		
Basic slag	—	5,722	55	35	(a)	(a)	(0)		
Czechoslovakia—									
Phosphate-rock	} (a)	} (a)	} (a)	} (a)	} (a)	} 13,838	} 63,159		
Superphosphates								} 3,974	} —
Denmark—									
Phosphate-rock	23,919	3,053	—	—	67,693	192,640	208,475		
Superphosphates	—	31	—	—	—	—	—		
Basic slag	—	7,705	15,124	18,366	—	—	—		
Finland (total imports)—									
Phosphate-rock	3,028	7,651	2,015	1,898	27,398	71,351	150,356		
Superphosphates	—	—	197	984	5,390	14,766	57,657		
Basic slag	—	—	—	—	—	2	14,755		
France—									
Phosphate-rock	929,509	1,346,801	59,138	37,465	428,975	1,013,742	1,153,345		
Superphosphates	3,369	1,380	79	139	156	78	1		
Basic slag	177	17,397	65,135	—	23	12,965	438		
Germany—									
Phosphate-rock, etc.	349,978	378,722	164,983	(b) 64,968	(a)	259,159	(d) 445,000		
Superphosphates	5,063	2,006	19	(b) 574	(a)	(a)	(c)(d) 52,000		
Basic slag	83,849	50,070	35,398	(b) 10,036	(a)	(a)	(a)		
Greece—									
Phosphate-rock	(a)	(a)	(a)	(a)	(a)	57,778	38,477		
Hungary—									
Phosphate-rock	(a)	(a)	(a)	(a)	(a)	—	15,413		
Iceland—									
Superphosphates	49	—	1,526	1,448	—	1,072	(a)		
Italy—									
Phosphate-rock	} (a)	} (a)	} (a)	} (a)	} (a)	} 439,940	} 581,133		
Superphosphates, including bone superphosphates								} (a)	} 21,345
Netherlands—									
Phosphate-rock	—	—	1,836	} (a)	} (a)	} 335,498	} 476,152		
Superphosphates	—	—	—					} 11,251	} 2,744
Basic slag	24,007	22,917	32,745							} 141,533	} 247,400
Norway—									
Phosphate-rock	—	—	—	—	21,807	16,074	24,207		
Superphosphates	—	—	—	—	20,274	87,037	66,422		
Basic slag	—	2,950	2,809	4,986	—	10,416	4,824		
Poland—									
Phosphate-rock	(a)	(a)	(a)	(a)	(a)	92,155	131,411		
Portugal—									
Phosphate-rock	132,899	91,194	58,918	201,052	124,735	247,518	167,726		
Basic slag	(a)	(a)	(a)	(a)	(a)	4,851	6,312		
Spain—									
Phosphate-rock	394,949	231,925	49,249	225,505	266,244	153,362	246,350		
Superphosphates, etc.	—	29	3	157	2,761	365	—		
Basic slag	—	—	—	—	—	—	4,892		
Sweden—									
Phosphate-rock	25,905	—	—	8,408	51,183	178,580	186,785		
Basic slag	—	—	—	—	—	1	3,547		

(a) Information not available.

(c) P₂O₅ content.

(b) January to July only.

(d) Bizonal area only.

IMPORTS OF PHOSPHATES, ETC. (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Switzerland—							
Phosphate-rock (b) ..	25,000	38,000	2,000	3,000	3,000	6,000	41,000
Basic slag	—	1	—	34	12,961	106,732	137,057
Algeria—							
Phosphate-rock	502	2,130	3,192	188	1,057	—	1
Superphosphates ..	9	269	100	—	—	113	592
Basic slag	—	—	—	—	—	—	507
Egypt—							
Superphosphates ..	—	—	276	13	—	—	(a)
Tunis—							
Superphosphates ..	10,845	6,947	2,310	9,062	8,670	8,331	2,715
Cuba—							
Superphosphates, etc. ..	18,414	13,521	13,495	21,418	18,590	(a)	(a)
United States—							
Phosphate-rock	4,340	3,764	46,505	123,414	141,658	59,734	42,477
Superphosphates ..	17,350	16,659	2,554	1,217	1,773	2,495	6,039
Basic slag	452	1	3	—	—	—	—
Ammonium phosphates	55,430	25,521	39,274	82,092	82,819	81,351	93,919
Brazil—							
Phosphate-rock	201	—	99	523	1,640	14,309	27,000
Superphosphates ..	19,685	4,047	6,658	5,724	20,378	17,064	(a)
Chile—							
Superphosphates ..	6	477	9	9	107	619	(a)
French Indo-China—							
Phosphate-rock	—	—	—	—	(a)	(a)	6,053
Japan (total imports)—							
Phosphate-rock	(d) 500,000	(d) 400,000	(d) 280,000	(a)	(a)	166,764	1,070,596
Superphosphates ..	(a)	(a)	(a)	(a)	(a)	(a)	2,644
Netherlands East Indies—							
Superphosphates ..	(c) 232	(a)	(a)	(a)	(a)	(a)	(a)
Syria and Lebanon—							
Phosphates	—	978	1,648	1,731	1,626	803	(a)
Turkey—							
Phosphate-rock	(a)	(a)	(a)	(a)	(a)	3,050	4,444

(a) Information not available.

(b) Estimated on imports from producing countries.

(c) January to October only.

(d) U.S. Bureau of Mines "Foreign Minerals Survey" estimate.

PLATINUM

PRODUCTION OF PLATINUM METALS

(Troy ounces)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Sierra Leone—							
Crude platinum ..	5	—	—	—	19	105	428
Union of South Africa—							
Crude (<i>Pt metals content</i>)	73,348	73,797	73,745	22,509	22,884	21,877	23,330
Concentrates (<i>Pt metals content</i>)							
Osmiridium (crude) (<i>b</i>) ..							
Osmiridium (crude) (<i>b</i>) ..	7,141	7,770	5,993	58,070	52,030	50,575	55,512
Osmiridium (crude) (<i>b</i>) ..				6,142	6,259	6,100	6,071
Canada—							
Crude platinum (<i>Pt content</i>)	60	40	7	—	—	(a)	(a)
Recovered from Ontario nickel-copper ores (<i>d</i>)—							
Platinum	124,257	285,188	219,706	157,523	208,234	121,771	94,570
Other platinum metals	97,432	222,573	126,004	42,929	458,674	117,566	23,218
Australia—							
New South Wales—							
Crude platinum ..	22	2	3	2	2	—	—
Tasmania—							
Osmiridium (crude) ..	207	142	90	107	109	95	99
New Zealand—							
Crude platinum ..	35	21	5	—	—	14	—
Papua—							
Crude platinum .. (c)	9	—	—	—	—	—	—
FOREIGN COUNTRIES							
U.S.S.R.—							
Crude platinum (estimated)	120,000	110,000	120,000	150,000	160,000	170,000	180,000
Belgian Congo—							
Palladium	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Platinum	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Ethiopia (estimated)—							
Crude platinum ..	3,000	3,000	3,000	3,000	3,000	3,000	3,000

(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) :—

	1941	1942	1943	1944	1945	1946	1947
Osmium	(a)	(a)	(a)	2,012	1,976	1,970	1,859
Iridium	(a)	(a)	(a)	1,816	1,768	1,691	1,677
Ruthenium	(a)	(a)	(a)	888	881	876	826
Platinum	(a)	(a)	(a)	795	847	853	785
Rhodium	(a)	(a)	(a)	47	49	47	42

(c) January to October only.

(d) From 1945 inclusive the figures refer to the metal content of concentrates produced from nickel-copper ores. Prior to that year the figures represent refined metals recovered plus the content of concentrates sold. The 1945 figures include an accumulated revision of previous years.

PRODUCTION OF PLATINUM METALS (Cont.)

Producing Country	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
United States (b)—							
Crude platinum ..	26,221	23,213	27,162	33,625	26,551	22,949	13,836
Ore (<i>Pt metals content</i>) ..	15	26	—	—	—	—	—
New platinum metals recovered by refineries from gold and copper ores of domestic origin—							
Platinum	1,805	4,333	5,205	3,286	1,068	555	(a)
Palladium	4,645	5,432	5,105	3,575	3,396	2,735	(a)
Iridium, osmiridium, etc.	44	40	80	63	31	73	(a)
Colombia—							
Crude platinum ..	47,000	43,103	34,564	34,304	34,758	(a)	43,035
Bolivia—							
Platinum	(a)	(a)	(a)	(a)	(a)	253	—
Netherlands East Indies—							
Crude platinum ..	32	—	—	—	—	—	—

(a) Information not available.

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

	1941	1942	1943	1944	1945	1946	1947
Platinum	37,522	56,150	68,613	85,942	58,942	40,385	54,190
Palladium	12,630	16,416	23,616	29,684	32,968	27,856	27,492
Iridium	659	1,552	2,771	965	812	2,002	2,089
Other platinum metals	758	2,493	6,581	2,805	3,400	2,394	3,317

EXPORTS OF PLATINUM*

(Domestic Produce)

(Troy ounces)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Platinum—							
Ingots, grain and powder	20,098	—	6,000	—	3,078	17,504	17,306
Other kinds, including alloys	87	43	175	100	1,623	33,939	30,790
Other platinum metals and alloys	18,064	6,200	8,050	1,994	119,477	21,273	9,823
Sierra Leone—							
Unrefined platinum ..	21	—	—	—	8	59	319
Union of South Africa—							
Osmiridium	6,579	7,016	5,975	6,357	6,341	6,142	(a)
Platinum	54,147	62,798	47,964	81,644	56,729	61,310	(a)
Canada—							
Concentrates, etc. (b) ..	(£1,443,644)	(£2,209,242)	(£1,734,189)	(£1,521,177)	(£2,988,238)	(£3,634,264)	(£2,893,008)
Scrap	221	363	586	204	407	933	325
Australia—							
Bars, blocks, rods, plates, etc.	113	23	9	—	—	—	—
New Zealand—							
Platinum, etc. (jewellers' sweepings)	64	45	70	30	29	31	11
FOREIGN COUNTRIES							
Czechoslovakia—							
Unwrought platinum and scrap	(a)	(a)	(a)	(a)	(a)	237	96
Denmark—							
Rods, sheets, wire, scrap, etc.	193	386	418	2,600	—	96	547
France—							
Unwrought platinum and scrap	30	—	30	(a)	—	611	1,350
Drawn or rolled platinum	30	160	30	(a)	225	257	129
Germany—							
Platinum metals and alloys	5,054	3,736	736	(c) 106	(a)	(a)	(a)
Italy—							
Sheets, bars, dust, scrap, etc.	—	32	—	(a)	(a)	—	—
Netherlands—							
Unwrought platinum ..	1,736	354	579	(a)	(a)	482	2,604
Portugal—							
Bars	3,022	386	(a)	(a)	(a)	64	—
Sweden—							
Unwrought platinum ..	965	900	289	675	418	386	354
Switzerland—							
Unwrought platinum ..	—	—	—	—	32	—	643

* 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.

(c) January to July only

EXPORTS OF PLATINUM (Cont.)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
U.S.S.R.	(b)	(b)	(b)	(b)	(b)	(b)	(b)
Belgian Congo—							
Platinum	} (a)	(a)	—	—	—	(a)	(a)
Palladium							
Cuba—							
Platinum	(a)	(a)	(a)	32	418	(a)	(a)
Palladium	(a)	(a)	(a)	64	193	(a)	(a)
United States—							
Ores, etc.	244	159	84	(a)	—	134	42
Ingots, sheets, wire, etc.	} 15,405	} 3,354	} 860	} 1,243	} 7,781	} 15,468	} 17,766
Palladium, rhodium, etc.,							
and alloys							
Colombia—							
Platinum	37,349	49,162	39,959	36,137	30,883	43,854	(a)

(a) Information not available.

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

	1941	1942	1943	1944	1945	1946	1947
United Kingdom ..	—	9,645	—	—	—	13,493	(a)
France	—	—	—	—	(a)	(a)	(a)
Germany	53,978	—	—	—	(a)	(a)	(a)
United States ..	1,000	3,226	41,272	75,322	77,741	106,851	94,369

IMPORTS OF PLATINUM*

(Less Re-exports)

(Troy ounces)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom (g)—							
Ingots, grain and powder	5	9,895	181	—	363	14,936	12,790
Other kinds, including alloys	670	1,989	1,872	1,382	1,294	2,439	1,271
Palladium, etc	(c) 1,010	(c) 700	(c) 32	—	150	1,646	3,054
Canada—							
Bars, sheets, wire, etc. ..	(£392,203)	(£141,013)	(£95,679)	(£13,931)	(£912,664)	(£2,031,358)	(£1,869,090)
Palestine—							
Platinum	(£5,748)	(£7,094)	(£4,409)	(£269)	(£8,267)	(£56,860)	(a)
Palladium	(£2,246)	(£2,704)	(£7,382)	(£6,386)	(£12,460)	(£24,139)	(a)
Australia (e)—							
Bars, rods, plates, etc. ..	2,660	2,781	1,620	1,536	484	52,740	7,015
New Zealand—							
Bars, sheets, wire, etc. ..	554	813	219	461	187	1,022	1,518
FOREIGN COUNTRIES							
Bulgaria—							
Ingots, bars, sheet and wire	4	—	—	—	(a)	(a)	(a)
Czechoslovakia—							
Unwrought platinum and scrap	} (a)	} (a)	} (a)	} (a)	} (a)	} —	675
Bars, plates, sheets and wire							225
Denmark—							
Rods, sheets, wire and scrap	96	32	—	—	96	804	289
Finland (total imports)—							
Unwrought platinum ..	10	—	(f) 5,738	—	19	167	84
France—							
Unwrought platinum and scrap	2,700	100	—	(a)	12,314	11,446	3,183
Drawn or rolled platinum	225	—	—	(a)	—	932	643
Germany—							
Platinum metals and alloys	87,839	7,600	3,643	(d) 231	(a)	(a)	(a)
Italy—							
Bars, dust and scrap ..	868	1,319	(b) 289	—	—	64	64
Sheets and foil and wire	32	—	—	—	—	64	32
Netherlands—							
Unwrought platinum ..	1,222	932	1,479	(a)	(a)	1,640	2,476
Norway—							
Sheets, rolled and wire	627	2	62	445	257	409	(a)
Portugal—							
Sheets, wire, etc. ..	(a)	(a)	(a)	(a)	27	144	385
Palladium	(a)	(a)	(a)	(a)	—	804	739
Spain—							
Bars, sheets, wire etc. ..	—	3	3	10	—	180	225

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

(a) Information not available.

(b) January to June only.

(c) Excess of re-exports.

(d) January to July only.

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

(f) Probably scrap.

(g) Imports of ores and concentrates containing platinum are not separately recorded. The value of platinum and platinum metals contained in concentrates and other forms exported from Canada to the United Kingdom were as follows:—1941—£360,322; 1942—£180,391; 1943—Nil; 1944—£206,867; 1945—£1,213,179; 1946—£2,058,786; 1947—£1,793,731.

IMPORTS OF PLATINUM (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Sweden—							
Unwrought platinum ..	162	163	109	20	535	640	765
Switzerland—							
Unwrought platinum ..	3,570	160	30	100	547	450	1,222
Egypt—							
Ingots, bars, sheets, etc.	514	25	207	1	1,772	7,592	(a)
Mexico—							
Ingots and bars	26	15	—	—	164	763	(a)
Sheets and wire	43	65	39	187	947	2,616	(a)
United States—							
Ore (<i>Pt content</i>)	175,810	181,271	92,709	101,747	138,089	26,710	4,486
Grains and nuggets (<i>b</i>)	51,141	82,105	98,401	35,345	33,875	49,235	51,116
Sponge and scrap (<i>b</i>) ..	17,898	—	72,785	65	2,368	51,802	50,980
Ingots, bars, sheets (<i>b</i>) ..	9,865	32,254	41,272	70,150	70,849	67,730	55,929
Iridium	1,292	884	1,056	3,075	6,197	11,602	5,011
Osmium and osmiridium	1,955	751	1,236	1,380	982	3,445	2,588
Palladium	46,099	9,984	43,874	137,496	118,267	182,055	133,962
Rhodium and ruthenium	5,935	7,753	10,920	6,954	13,028	9,419	5,749
Argentina—							
Platinum	1,575	937	61	31	922	5,496	(a)
Brazil (total imports)—							
Ingots, sheets and wire	53	380	69	135	734	1,455	(a)
Chile—							
Ingots, bars, scrap, etc.	141	312	31	60	233	613	(a)
Uruguay—							
Ingots	(a)	(a)	(a)	} 518	(a)	(a)	(a)
Palladium	(a)	(a)	(a)				
Syria and Lebanon—							
Unwrought platinum	—	—	—	45	379	843	(a)
Turkey—							
Sheets	(a)	(a)	(a)	—	161	—	—

(a) Information not available.

(b) *Platinum content.* Re-exports are shown as a total only of these items as follows:—1941–1943–Nil : 1944–103 ozs. : 1945–4,015 ozs.: 1946–(a) : 1947–(a).

PRODUCTION OF POTASH (Cont.)

Producing Country and Description	K ₂ O Content or equivalent						
	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES(Cont.)							
Spain— Carnallite, sylvinite, etc.	309,964	407,264	432,713	665,134	699,275	780,791	727,641
United States— Mirate (chloride)— 60-62% K ₂ O ..	592,507	784,819	834,787	966,189	1,123,511	1,117,043	1,244,823
48-50% K ₂ O ..	76,248	76,500	88,515	102,277	105,069	109,158	111,714
Fertilizer salts, run-of- mine ..	138,374	163,753	216,240	194,250	103,391	87,797	155,487
Sulphate (b) ..	73,637	106,584	136,208	146,657	86,159	192,908	189,562
China— Nitrate ..	4,444	2,893	3,000	1,705	(a)	(a)	(a)
Korea (Southern)— Alumite (impure) ..	(a)	a	(a)	18,120	(a)	(a)	(a)
TOTAL (d) ..	3,000,000	3,300,000	3,200,000	3,100,000	1,600,000	1,950,000	2,150,000
WORLD'S TOTAL (d)	3,060,000	3,350,000	3,250,000	3,150,000	1,650,000	2,000,000	2,210,000

NOTE.—Potash is produced in Poland, the U.S.S.R. 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 some 93-96% KCl.

(d) Estimated.

EXPORTS OF POTASH SALTS

(Domestic Produce)

(Long tons)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947			
BRITISH COUNTRIES										
United Kingdom—										
Fertilizer salts	—	—	—	—	—	1	1			
Chromate and bichromate	292	104	63	133	238	460	24			
Nitrate	1,087	600	273	264	546	2,752	2,133			
Sulphate	10	4	2	2	6	35	86			
Other compounds	699	549	652	644	950	2,392	2,232			
British India—										
Nitrate	10,096	4,518	2,061	1,223	143	1,135	(c) 816			
Hong Kong (including re-exports)—										
Nitrate	(a)	(a)	(a)	(a)	(a)	120	2,275			
Chlorate						630	1,529			
Malaya (including re-exports)—										
Fertilizer salts	(a)	(a)	(a)	(a)	(a)	3	8			
Nitrate	(a)	(a)	(a)	(a)	(a)	—	5			
Palestine—										
Fertilizer salts	149	1,181	989	1,090	5,100	201	(a)			
Chloride	(a)	90,230	101,492	95,820	88,260	67,315	(a)			
Chlorate	(a)	9	35	30	36	3	(a)			
FOREIGN COUNTRIES										
Belgium-Luxemburg E.U.—										
Fertilizer salts	335	—	—	—	(a)	(a)	(a)			
Carbonate	921	89	229	148						
Caustic potash and lyes	—	—	23	—						
Chloride	695	—	98	366						
Chlorate	—	—	—	—						
Chromates, including those of sodium	83	5	37	—						
Nitrate	10	—	—	—						
Sulphate	10	—	—	—						
Czechoslovakia—										
Carbonate	(a)	(a)	(a)	(a)	(a)	33	1			
Manganate and permanganate, including those of sodium	(a)	(a)	(a)	(a)	(a)	411	100			
Finland—										
Chlorate	292	15	1	—	—	—	689			
France—										
Sylvinite, etc.	25,188	49,499	675	174	123,378	539,694	326,953			
Chloride					28,179	363,184	360,215			
Carbonate					107	50	10	4	3,478	6,831
Caustic potash					421	384	226	40	835	3,228
Nitrate					21	70	—	—	46	1,144
Permanganate					211	37	31	51	—	104
Sulphate					670	620	—	—	1,170	20,343
Germany—										
Fertilizer salts	1,087,462	970,321	1,047,025	(b) 399,684	(a)	(a)	(d) 22,000			
Carbonate and wool grease ash	12,370	6,152	5,733	(b) 3,593						
Caustic potash	7,527	7,083	6,629	(b) 7,894						

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

(b) January to July only.
(d) K₂O content.

EXPORTS OF POTASH SALTS (Cont.)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947	
FOREIGN COUNTRIES (Cont.)								
Germany (Cont.)—								
Chlorate	2,623	1,730	1,817	756	} (a)	(a)	(a)	
Manganates	185	205	36	28				
Nitrate	14,161	9,024	9,133	3,158				
Sulphates and chloride	139,696	212,418	412,389	562,290				
Netherlands—								
Fertilizer salts	—	—	—	} (a)	(a)	(a)	(a)	
Caustic potash	32	21	1					
Chloride	217	1,121	206					
Nitrate	—	77	—					
Sulphate	197	201	98					
Patent potash	—	—	—	—	—	—	(a)	
Spain—								
Fertilizer salts	138,337	73,539	57,795	143,976	124,470	146,726	193,462	
Chlorate	66	16	35	17	17	16	52	
Sweden—								
Carbonate	1	1	1	3	4	18	25	
Caustic potash	194	177	90	37	368	493	999	
Switzerland—								
Nitrate (crude)	2,860	4,412	4,432	1,013	41	271	298	
United States—								
Chloride	} 82,098	32,550	72,874	77,619	76,200	} (a)	76,587	
Sulphate		6,815	8,761	8,517	8,055		(a)	
Other fertilizer salts		35,993	17,963	12,129	9,170		15,322	
Chromates		1,983	1,154	1,055	554		665	1,000
Caustic potash		3,532	3,084	8,763	5,973		7,468	8,315
Carbonates, etc.		(b)—	1,954	724	1,222		2,559	(a)
Chlorates, etc.		(b)—	1,327	1,734	1,477		1,439	(a)
Nitrates, etc.		(b)—	3,043	3,661	2,957		3,363	(a)
Other compounds	5,987	1,251	1,837	1,339	1,125	(a)		
Chile—								
Chloride	6,042	1,379	42	281	2,283	2,590	(a)	
Nitrate	6	215	4,976	3,217	715	701	(a)	
Chlorate	—	—	—	276	155	101	(a)	

(a) Information not available.

(b) Included, if any, with "Other compounds."

(c) January to July only.

IMPORTS OF POTASH SALTS

(Less Re-exports)

(Long tons)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Fertilizer salts	—	1,250	—	—	—	—	—
Carbonate	1,171	1,052	45	—	—	148	215
Caustic potash and lyes	858	87	4,719	3,768	2,471	1,835	834
Chlorate	147	64	—	18	3	265	532
Chloride	87,643	109,238	144,273	213,832	164,685	223,481	316,611
Nitrate	3,852	2,325	1,464	963	(c) 5	297	143
Sulphate	339	(c) 3	40	—	—	2,964	17,557
Other Compounds	125	69	137	433	47	277	531
Eire—							
Kainite	—	—	1	1	—	—	1
Fertilizer salts (20% K ₂ O)	—	—	—	—	1	—	1
Chlorate	23	35	48	52	52	21	45
Chloride	703	961	1,300	1,324	1,541	2,662	13,414
Nitrate	191	121	4	56	55	46	55
Sulphate	—	—	8	—	—	—	370
Other compounds	36	18	79	12	33	35	43
Mauritius—							
Nitrate	3,170	210	102	2,500	—	500	(a)
Northern Rhodesia—							
Compounds	378	251	657	259	91	52	(a)
Southern Rhodesia—							
Compounds	51	24	44	108	52	35	56
Union of South Africa (b)—							
Fertilizer salts	1,055	7,988	3,334	—	4,696	(a)	(a)
Nitrate	3	2	—	—	—	(a)	(a)
Caustic potash	135	16	74	114	159	(a)	(a)
Other compounds	896	1,190	724	403	377	(a)	(a)
Canada—							
Kainite	14,101	27,004	18,888	15,689	10,328	6,611	7,141
Caustic potash	1,329	1,106	1,189	1,107	1,178	1,951	2,335
Chlorate	2	—	—	4	1	147	40
Chloride	27,275	36,818	46,436	59,014	62,693	69,863	86,366
Nitrate	819	760	847	970	655	366	261
Crude sulphate	1,749	3,925	3,938	3,901	3,522	3,809	2,596
Other compounds	651	583	997	676	809	765	772
British West Indies—							
Barbados—							
Fertilizer Salts	3,548	870	1,627	4,571	332	2,783	5,167
Jamaica—							
Fertilizer salts	500	—	—	597	508	342	406
St. Vincent—							
Chloride	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Sulphate	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Trinidad and Tobago—							
Sulphate	436	—	—	—	271	160	—
British India—							
Bichromate	149	5	—	22	7	—	(d) —
Chlorate	1,306	411	121	10	185	12	(d) 396
Chloride	189	696	1,008	20	1,530	1,108	(d) 2,433
Other compounds	675	276	203	430	558	800	(d) 769
Ceylon—							
Chlorides	1,991	3,609	3,001	2,860	3,893	6,740	7,484
Nitrate of potash refuse	1,467	110	—	—	—	—	—
Sulphate	—	—	—	—	—	10	38

(a) Information not available.

(b) Total imports.

(c) Excess of re-exports.

(d) January to November only.

IMPORTS OF POTASH SALTS (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES (Cont.)							
Hong Kong (total imports)—							
Nitrate	(a)	(a)	(a)	(a)	(a)	202	446
Chlorate	(a)	(a)	(a)	(a)	(a)	1,560	3,524
Malaya (total imports)—							
Fertilizer salts	(a)	(a)	(a)	(a)	(a)	136	3,815
Nitrate	(a)	(a)	(a)	(a)	(a)	53	4
Palestine—							
Chlorate	(a)	5	—	—	—	20	(a)
Australia—							
Bichromate	67	79	22	74	125	61	5
Carbonate	495	598	115	105	229	831	494
Caustic potash	523	686	75	333	196	660	686
Chlorate	144	179	106	146	130	—	104
Cyanides, including sodium cyanides	6,388	1,360	807	1,758	960	201	239
Nitrate	892	578	332	91	95	124	139
Other compounds	124	263	122	104	492	131	953
New Zealand—							
Other fertilizer salts	496	39	128	83	17	36	17
Chlorate	43	88	27	58	55	28	40
Chloride	701	2,001	1,496	1,211	5,558	3,661	7,941
Nitrate	4	47	21	5	2	1	22
Sulphate	866	3	494	224	215	223	645
Other compounds (£N.Z.)	(£17,985)	(£18,718)	(£34,348)	(£20,830)	(£8,345)	(£9,096)	(£16,968)
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Fertilizer salts	125,884	87,850	38,650	16,944	19,715	(a)	(a)
Carbonate	2,791	1,198	308	1,537			
Caustic potash and lyes	70	410	972	1,900			
Chlorate	410	412	322	182			
Chloride	183,419	141,323	174,747	158,154			
Chromates, including those of sodium	84	10	4	6	(a)	(a)	(a)
Manganate and permanganate	15	14	1	—			
Nitrate	68	33	40	176			
Sulphate	26,659	8,196	5,756	6,802			
Bulgaria—							
Carbonate	3	5	5	2			
Caustic potash	29	320	254	49			
Chloride	20	90	75	50	(a)	(a)	(a)
Chromates	24	17	32	57			
Nitrate	91	169	123	20			
Czechoslovakia—							
Kainite						20	—
Fertilizer salts (38—44% K ₂ O)						87,524	99,608
Fertilizer salts (other)	(a)	(a)	(a)	(a)	(a)	4,921	—
Carbonate and nitrate						(a)	690
Chloride						137	13,759
Sulphate						(a)	—
Denmark—							
Kainite	2,714	10,185	55,534	25,919	2,160	—	(a)
Fertilizer salts	163,249	116,074	114,731	145,188	26,398	65,290	(a)
Carbonate	371	255	312	369	35	311	(a)
Caustic potash	263	164	748	1,546	253	909	(a)
Chlorate	196	141	200	119	78	99	(a)

(a) Information not available.

IMPORTS OF POTASH SALTS (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Denmark (Cont.)—							
Chloride	71	746	1,008	378	—	533	(a)
Chromates	33	12	35	139	52	46	(a)
Nitrate	261	316	321	302	12	462	(a)
Sulphate	1	3	8	6	—	1	(a)
Finland (total imports)—							
Fertilizer salts	41,948	69,500	67,729	52,274	4,898	36,106	73,791
Carbonate	111	118	160	100	17	103	139
Caustic potash	63	52	56	53	39	65	31
Chloride	591	788	788	10	295	758	1,461
Chromates	44	17	32	84	2	150	150
Nitrate	93	262	36	14	—	17	33
France—							
Carbonate	1	12	6	2	4	22	—
Caustic potash	11	17	26	9	33	7	15
Chlorate	1	16	11	(a)	—	—	—
Chromate and bichromate	56	28	1	1	—	4	6
Chloride	40,877	30,744	2,371	—	—	—	—
Sulphate	—	4,882	5,207	74	1,170	—	—
Germany—							
Fertilizer salts	—	—	712	—	—	—	—
Carbonate and wool grease ash	10	—	208	(b) —	—	—	—
Caustic potash	57	1,255	61	(b) — 24	(a)	(a)	(a)
Chlorate	7	—	—	(b) —	—	—	—
Manganates	—	55	10	(b) — 32	—	—	—
Nitrate	—	2	—	(b) —	—	—	—
Greece—							
Carbonate	(a)	(a)	(a)	(a)	263	8	(a)
Caustic potash	(a)	(a)	(a)	(a)	102	20	(a)
Nitrate	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Iceland—							
Fertilizer salts	223	197	232	202	(a)	(a)	(a)
Carbonate	49	45	40	14	13	8	(a)
Caustic potash	67	30	15	—	22	29	(a)
Italy—							
Fertilizer salts	(a)	(a)	(a)	(a)	(a)	(a)	18,098
Caustic potash	(a)	(a)	(a)	(a)	(a)	(a)	1,346
Netherlands—							
Kainite	2,429	497	591	—	—	—	—
Fertilizer salts (20% K ₂ O)	158,496	92,586	54,857	—	—	30,829	—
do. (40% K ₂ O)	188,705	139,996	271,907	—	—	98,429	—
do. (50% K ₂ O)	(a)	31,809	41,256	—	—	22,673	—
Caustic potash	200	183	253	(a)	(a)	590	(a)
Chloride	1,884	2,072	2,269	—	—	7,281	—
Nitrate	9,395	5,443	275	—	—	156	—
Sulphate	147	1,409	1,796	—	—	3,228	—
Patent potash	52,669	74,034	32,961	—	—	—	—
Norway—							
Fertilizer salts	49,598	44,937	62,986	72,437	2,282	52,150	55,991
Carbonate	452	275	269	266	343	353	291
Caustic potash and lyes	577	208	601	1,448	400	704	(a)
Chloride	43	1,503	211	26	10	7,251	3,569
Nitrate	45	77	53	37	210	122	(a)
Portugal—							
Carbonate	122	22	6	5	14	53	111
Caustic potash	37	38	37	3	2	47	44
Chlorate	185	145	248	133	177	171	231
Chloride	7,224	15,989	9,112	12,627	20,488	9,858	11,850
Chromate	36	11	12	16	6	140	28

(a) Information not available.

(b) January to July only.

IMPORTS OF POTASH SALTS (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Portugal (Cont.)—							
Nitrate	41	152	79	50	278	198	249
Sulphate	(a)	—	10	—	—	—	—
Sweden—							
Fertilizer salts (20% K ₂ O)	—	—	—	1,085	—	10	—
do . (40% K ₂ O)	59,569	71,966	58,235	70,155	1,821	93,274	130,075
do. (other)	—	13,832	48,687	24,315	—	17,945	197
Carbonate	761	1,233	2,080	1,897	238	804	1,052
Caustic potash	1,064	232	347	591	247	857	510
Chloride	697	974	2,137	2,181	—	7,087	16,631
Nitrate	672	531	317	288	108	592	412
Switzerland—							
Fertilizer salts	51,742	54,372	103,604	67,411	52,811	42,365	46,013
Carbonate	479	360	454	324	88	746	649
Caustic potash	1,382	1,332	1,255	1,048	599	1,435	2,395
Chloride	1,089	964	1,447	441	433	2,150	2,566
Nitrate, crude	—	—	—	—	—	49	—
Nitrate, purified, including sodium nitrate ..	2,830	942	184	94	39	707	737
Algeria—							
Fertilizer salts	21,923	38,702	—	—	7,314	22,666	21,489
Carbonate	33	6	—	—	2	50	—
Caustic potash	135	38	11	11	61	45	40
Nitrate	11	20	—	—	12	20	15
Sulphate	253	431	—	—	—	3,495	9,058
Egypt—							
Fertilizer salts	151	—	200	503	—	—	(a)
Carbonate	22	8	2	8	2	83	(a)
Caustic potash	18	403	2	52	146	59	(a)
Chlorate	78	37	46	116	93	124	(a)
Chromates, including those of sodium ..	803	323	232	139	193	632	(a)
Manganates	3	6	6	13	8	26	(a)
Madagascar—							
Chloride	292	(a)	—	(a)	(a)	(a)	(a)
Sulphate	24	(a)	—	(a)	(a)	(a)	(a)
Mozambique—							
Carbonate	3	—	8	—	—	(a)	(a)
Tunis—							
Carbonate	4	4	—	—	4	1	3
Caustic potash	21	23	—	4	—	16	—
Chlorate	—	10	—	—	8	1	1
Chloride	886	3,487	—	—	37	2,121	632
Nitrate	1	9	—	5	1	6	12
Sulphate	—	—	—	—	1	492	251
Cuba—							
Nitrate, including nitrate of soda	591	12,208	632	2,416	22,190	(a)	(a)
Chlorate	110	45	108	75	86	(a)	(a)
Other salts	964	2,927	170	32	78	(a)	(a)
Mexico—							
Nitrate	(b) 18,298	(b) 7,692	(b) 18,052	(b) 12,567	15,694	11,236	(a)
Caustic potash	248	390	303	187	369	3,015	(a)
Chlorate	210	402	431	407	712	830	(a)
Carbonate	21,856	26,653	25,096	37,224	35,568	24,693	(a)
Sulphate	34	3	—	1	2	2	(a)
United States—							
Kainite	—	—	—	—	—	(a)	10,877
Other fertilizer salts	—	—	—	—	—	(a)	71
Carbonate	4	—	—	—	—	2	8

(a) Information not available.

(b) Including nitrate of soda.

IMPORTS OF POTASH SALTS (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
United States (Cont.)—							
Caustic potash	10	—	—	—	18	40	22
Chlorates	119	32	60	54	333	469	179
Chloride	13,099	1,396	18,073	1,017	6,126	3,082	31,504
Cyanide	—	—	—	—	—	(a)	20
Nitrate	—	—	—	—	—	(a)	23
Potassium-sodium nitrate mixtures	30,840	12,743	17,667	8,399	—	3,929	2,232
Sulphate	—	—	—	—	—	(a)	8,956
Argentina—							
Bichromate	281	233	72	8	2	87	(a)
Carbonate	10	125	15	—	—	134	
Caustic potash	160	474	73	139	167	570	
Chlorate	307	204	—	—	374	273	
Cyanide	10	7	9	2	17	28	
Nitrate	95	248	87	168	757	124	
Sulphate	—	—	—	—	—	—	
Brazil (total imports)—							
Caustic potash	59	69	192	194	415	1,149	(a)
Nitrate of potash	203	828	828	1,375	976	702	(a)
Chloride	3,103	1,629	3,575	2,147	3,266	3,655	(a)
Sulphate	287	—	—	270	132	441	(a)
Chile—							
Bichromate	64	42	64	10	10	86	(a)
Carbonate	14	47	9	15	17	46	(a)
Caustic potash	22	21	40	34	31	61	(a)
Chlorate	4	(a)	31	212	108	81	(a)
Nitrate	1	1	—	1	—	—	(a)
Colombia—							
Carbonate	10	26	28	(a)	8	4	(a)
Caustic potash	3	3	13	(a)	13	19	
Chlorate	58	73	51	56	134	259	
Nitrate	84	63	143	197	79	249	
Sulphate	295	295	204	(a)	—	57	
Peru—							
Caustic potash	2	5	5	5	19	8	(a)
Other salts	213	235	285	349	303	355	(a)
Uruguay—							
Nitrate	(a)	(a)	27	31	(a)	(a)	(a)
Caustic potash	(a)	(a)	38	11	(a)	(a)	(a)
Venezuela—							
Carbonate	1	2	11	(a)	(a)	(a)	(a)
Caustic potash	47	15	28				
Chlorate	1	8	9				
Nitrate	29	45	59				
Japan—							
Caustic potash	(a)	(a)	(a)	(a)	(a)	(a)	69,191
Netherlands East Indies—							
Fertilizer salts	(b) 1,313	(a)	(a)	(a)	(a)	(a)	(a)
Caustic potash	(a)						
Nitrate	(a)						
Syria and Lebanon—							
Fertilizer salts	98	799	1,153	1,208	592	898	(a)
Caustic potash	9	—	—	1	3	1	(a)
Turkey—							
Carbonate	(a)	(a)	(a)	7	855	164	623
Caustic potash				—	1	86	27
Other salts				79	60	608	523

(a) Information not available.

(b) January to October only.

PYRITES
PRODUCTION OF PYRITES*
(including Cupreous Pyrites)

(Long tons)

Producing Country	Estimated Sulphur Content													
	1941	1942	1943	1944	1945	1946	1947	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES														
Great Britain	6,379	17,180	27,197	24,409	23,069	20,628	9,946	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Kenya								16,800	14,800	13,800	13,400	13,200	9,600	6,800
Southern Rhodesia	41,935	37,060	34,512	33,638	32,937	24,117	16,873	15,405	17,674	15,939	16,180	16,480	16,292	14,927
Union of South Africa	34,650	39,829	36,446	35,584	37,947	37,443	34,271	133,151	163,196	124,508	108,726	98,596	86,195	73,783
Canada (sales) (c)	270,857	338,833	254,086	223,278	203,324	180,299	159,164	4,485	3,781	4,366	6,233	16,900	138,900	289,000
Cyprus	9,344	7,878	9,095	12,986	35,225	289,407	602,136	27,300	33,000	36,900	40,700	55,200	55,000	55,300
Australia	55,993	67,885	77,417	87,617	116,000	117,800	117,800							
TOTAL	419,000	509,000	439,000	418,000	449,000	670,000	940,000							
FOREIGN COUNTRIES														
Austria	(a)	(a)	(a)	(a)	(a)	3,768	6,570	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Czechoslovakia	11,000	11,000	9,000	(a)	(a)	(a)	(a)	5,000	5,000	4,000	(a)	(a)	(a)	(a)
Finland (b)	138,516	123,547	108,475	125,644	108,578	124,315	149,863	61,000	54,000	48,000	55,000	48,000	55,000	66,000
France (c)	195,000	211,000	203,987	111,127	167,000	216,821	193,082	88,000	95,000	79,000	43,000	67,400	86,000	76,500
Germany	1,236,238	1,196,772	1,374,996	(a)	(a)	(a)	d 319,000	463,000	452,000	521,000	(a)	(a)	(a)	(a)
Greece	10,206	7,360	3,800	4,310	6,410	78,880	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Italy	1,006,910	953,842	(a)	394,193	(a)	394,193	618,868	470,000	450,000	(a)	(a)	(a)	190,000	300,000
Norway	918,206	809,221	796,005	738,553	243,557	531,324	708,643	389,898	343,510	339,259	314,363	104,689	229,035	306,963
Poland	(a)	77,000	86,000	(a)	(a)	27,807	39,033	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Portugal	214,133	132,784	108,257	128,075	168,267	310,000	382,686	64,557	59,754	48,716	57,634	75,720	139,501	172,209

* See also Sulphur (page 288).

(a) Information not available.

(b) Pyrite concentrate only.

(c) Produced as a by-product in the treatment of copper-pyrites ore.

(d) British and U.S. Zones only.

(e) In addition the sulphur content of mispickel and auriferous pyrites was as follows (long tons): 1941—Nil; 1942—893; 1943—702; 1944—3,547; 1945—5,771; 1946—5,839; 1947—4,125.

PRODUCTION OF PYRITES (Cont.)

Producing Country	Estimated Sulphur Content													
	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950				
FOREIGN COUNTRIES (Cont.)														
Spain	565,457	617,102	867,233	504,159	885,538	1,157,403	995,009	226,000	247,000	347,000	202,000	(a)	(a)	(a)
Sweden	223,264	297,502	319,890	312,441	257,846	275,783	305,666	108,820	144,059	157,196	154,971	129,026	134,621	145,271
Algeria	43,974	31,425	25,186	32,385	28,818	39,800	34,780	19,350	13,828	10,413	13,000	11,738	17,160	14,000
Tunis	—	—	—	—	453	2,260	6,570	—	—	—	—	200	1,000	3,000
United States (b)	645,257	720,363	802,384	788,530	722,596	813,372	940,652	270,363	306,875	328,175	332,760	296,364	337,549	392,252
Brazil	(a)	4,001	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Japan	2,072,877	1,881,916	1,567,584	1,228,929	397,598	607,794	889,141	904,000	819,000	701,000	542,000	175,000	270,000	390,000

Pyrites is also produced in Belgium, Roumania, U.S.S.R., Yugoslavia, China, Korea and Manchuria.

(a) Information not available.

(b) Includes by-product pyrites from the zinc operations in Wisconsin and New York, and pyrites and pyrrhotite concentrates from copper operations in Tennessee.

EXPORTS OF PYRITES

(Domestic Produce)

(Long tons)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Southern Rhodesia—							
Iron pyrites	33,768	39,311	36,322	33,166	30,465	26,437	17,308
Canada—							
Pyrites (<i>S content</i>) ..	115,740	148,616	93,311	81,104	67,392	60,754	50,299
Cyprus—							
Iron pyrites	6,097	4,971	12,987	11,271	100,075	256,203	352,946
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.	—	—	782	—	(a)	(a)	(a)
Finland—							
Concentrate	(a)	(a)	59,810	38,021	75,309	—	11,731
France	173,314	69,719	11,751	—	9,546	—	934
Germany—							
Pyrites, etc.	789	14,753	108,425	(b) 70,139	(a)	(a)	(a)
Italy	201,980	200,270	(c) 81,640	(a)	(a)	(a)	(a)
Netherlands	17,223	—	—	(a)	(a)	—	(a)
Norway—							
Iron pyrites	339,764	242,203	221,031	204,373	47,952	168,058	164,005
Cupreous pyrites ..	267,217	294,491	297,366	260,022	66,318	156,708	227,378
Portugal—							
Cupreous pyrites ..	36,226	136	11,104	(a)	92,678	238,798	299,110
Spain—							
Iron pyrites	376,084	284,430	282,844	221,979	491,197	622,049	987,893
Sweden	25,329	20,407	49,210	9,845	48,690	124,586	109,985
Algeria	—	401	—	(a)	(a)	(a)	(a)
Japan—							
Iron pyrites	359,676	333,855	273,993	201,003	41,394	(a)	(a)

(a) Information not available.

(b) January to July only.

(c) January to June only.

IMPORTS OF PYRITES

(Less Re-exports)

(Long tons)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Iron and cupreous pyrites	250,767	188,383	161,088	159,898	132,618	161,905	174,722
Ire	3,614	4,795	21,757	8,051	23,150	30,752	30,582
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.	9,820	50,647	49,495	17,220	(a)	(a)	(a)
Czechoslovakia	(a)	(a)	(a)	(a)	(a)	249,063	197,779
Denmark	26,808	5,185	178	4,190	29,564	72,740	(a)
France	11,851	31,324	67,507	34,660	95,277	558,024	511,270
Germany—							
Pyrites, etc.	790,238	740,703	779,760	(b) 416,016	(a)	(a)	(a)
Italy—							
Iron-pyrites	—	470	(c) 10,350	(a)	(a)	(a)	(a)
Netherlands	2,830	48,233	72,671	(a)	(a)	139,987	(a)
Sweden	40,973	50,954	34,429	29,850	20,055	108,810	101,077
United States	368,838	300,140	256,308	180,763	186,507	182,893	126,553
Japan	—	29,875	52,910	22,701	—	(a)	(a)

(a) Information not available.

(b) January to July only.

(c) January to June only.

QUICKSILVER
PRODUCTION OF QUICKSILVER
(Lb.)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Southern Rhodesia ..	170	206	33	—	50	—	—
Union of South Africa ..	15,521	43,983	90,326	90,618	64,789	58,093	—
Canada	536,304	1,035,914	1,690,240	735,908	—	—	—
Australia	2,696	1,165	1,150	876	245	—	—
New Zealand	5,656	11,402	7,068	6,840	2,294	—	—
FOREIGN COUNTRIES							
Czechoslovakia	176,000	(a)	(a)	(a)	(a)	(a)	(a)
Germany	68,000	37,000	(a)	(a)	(a)	(a)	(a)
Italy	7,156,000	5,582,000	4,700,000	2,180,000	1,962,000	3,862,000	4,096,000
Sweden	4,475	838	—	1,625	110	—	—
Spain	6,505,000	5,494,000	3,629,000	2,610,000	3,093,000	3,177,000	4,225,820
Algeria	11,200	9,171	11,000	12,570	25,404	25,860	25,800
Tunis	6,800	238	40	—	—	—	—
Mexico	1,758,457	2,465,581	2,152,396	1,980,788	1,250,021	886,282	735,945
United States	3,413,996	3,864,296	3,946,604	2,864,288	2,337,988	1,926,448	1,766,544
Bolivia (exports)	—	—	3,883	181	214	—	—
Chile	105,480	171,921	234,645	89,761	65,491	59,569	39,143
Peru	—	—	24,251	11,023	15,803	381	(a)
China	264,000	359,000	260,000	231,000	152,000	(a)	(a)
Japan	328,500	395,000	510,000	539,300	236,500	104,300	123,113
Turkey	18,392	13,376	14,136	7,372	12,008	—	7,448
World's Total (b) ..	21,000,000	20,100,000	18,000,000	12,000,000	10,000,000	10,900,000	11,900,000

Quicksilver is also produced in the U.S.S.R.

(a) Information not available.

(b) Estimated.

EXPORTS OF QUICKSILVER, ETC.

(Domestic Produce)

(Lb.)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Quicksilver	13,602	8,093	2,375	483	1,818	45,778	6,168
Union of South Africa—							
Quicksilver	(a)	(a)	—	34,050	82,350	25,575	—
Canada—							
Quicksilver	(a)	(a)	(a)	(a)	(a)	57,005	17,084
Hong Kong (d)—							
Quicksilver	(a)	(a)	(a)	(a)	(a)	9,576	33,333
Malaya (d)—							
Quicksilver	(a)	(a)	(a)	(a)	(a)	46,701	6,171
Sarawak—							
Quicksilver	(a)	(a)	(a)	(a)	(a)	(b) 230	(a)
Australia—							
Quicksilver	20	350	256	—	1	—	926
New Zealand—							
Quicksilver	3,400	12,500	2,987	6,852	150	—	—
FOREIGN COUNTRIES							
France—							
Quicksilver	400	400	—	—	221	3,547	8,818
Mercury salts	1,800	4,200	20,900	—	—	—	3,086
Germany—							
Cinnabar	2,200	6,400	4,200	(c) 2,200	} (a)	(a)	(a)
Quicksilver and amalgam	41,900	32,400	424,400	(c) 104,100			
Mercury salts	99,400	106,500	173,500	(c) 73,900			
Italy—							
Quicksilver	3,615,581	3,130,564	3,880,135	1,124,357	—	1,984,160	1,274,051
Netherlands—							
Quicksilver and amalgam	156	302	176	(a)	(a)	—	(a)
Spain—							
Quicksilver	3,077,200	602,500	692,490	804,467	2,634,590	867,739	1,311,089
Sweden—							
Quicksilver	333	847	243	115	1,455	465	300
Switzerland—							
Quicksilver	—	—	4	—	2	1,195	163
Algeria—							
Quicksilver	29,321	14,330	441	1,764	38,360	34,392	30,644
Mexico—							
Quicksilver	1,655,656	2,474,067	3,081,537	1,574,887	1,172,766	844,683	—
United States—							
Quicksilver	196,837	26,252	29,236	57,007	78,877	68,932	67,148
Chloride	(a)	30,105	29,372	62,167	57,005	} (a)	(a)
Fulminate	(a)	39,595	35,450	26,190	506		
Oxide	(a)	9,495	50,483	13,054	26,950		
Other salts	(a)	9,016	7,997	10,614	35,746		

(a) Information not available.

(b) April 15 to December 31 only.

(c) January to July only.

(d) Including re-exports.

EXPORTS OF QUICKSILVER, ETC. (Cont.)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Bolivia—							
Quicksilver	—	—	3,883	185	214	(a)	(a)
Chile—							
Quicksilver	89,975	172,207	265,886	84,153	74,565	68,423	7,978
Peru—							
Quicksilver	—	—	24,771	11,585	15,803	381	(a)
Japan—							
Quicksilver	112,311	112,311	80,639	49,192	11,231	(a)	229,245
Turkey—							
Quicksilver	(a)	(a)	(a)	—	3,269	2,696	—

(a) Information not available.

IMPORTS OF QUICKSILVER, ETC.

(Less Re-exports)

(Lb.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Quicksilver	640,741	2,161,197	797,434	(c) 4,465	105,061	128,642	1,780,449
Southern Rhodesia—							
Quicksilver	25,329	(c) 1,040	(c) 716	11,156	52	2,525	24,278
Tanganyika Territory—							
Quicksilver	1,312	3,356	615	—	516	605	438
Union of South Africa—							
Quicksilver	69,714	13,315	2,144	3,396	1,977	19,711	(a)
Canada—							
Quicksilver	8,599	1,971	2,047	35,428	27,101	152,719	412,649
Mercury salts	(£3,899)	(£2,717)	(£1,066)	(£327)	(£2,415)	(£696)	(£2,161)
Newfoundland (b)—							
Quicksilver	(a)	(a)	(a)	136	522	64	132
British Guiana—							
Quicksilver	986	1,485	314	154	(a)	1,150	1,939
British India—							
Quicksilver	25,026	142,526	27,140	181,457	186,904	412,678	(f) 326,675
Burma—							
Quicksilver	(a)	(a)	(a)	(a)	(a)	(d) 560	(a)
Hong Kong (total imports)—							
Quicksilver	(a)	(a)	(a)	(a)	(a)	56,700	120,000
Malaya (total imports)—							
Quicksilver	(a)	(a)	(a)	(a)	(a)	306	512
Australia—							
Quicksilver	53,874	152,241	55,959	33,515	32,554	7,312	320
Mercury salts	40,881	44,874	55,972	38,321	28,414	36,648	8,830
New Zealand—							
Quicksilver	4,430	370	1,576	1,276	—	85	1,257
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Quicksilver	73,900	11,900	19,400	(a)	} (a)	(a)	(a)
Sulphide of mercury	900	1,800	5,500	—			
Mercury salts	83,600	143,300	240,300	143,500			
Bulgaria—							
Quicksilver	1,263	2,685	4,965	392	(a)	(a)	(a)
Czechoslovakia—							
Quicksilver	(a)	(a)	(a)	(a)	(a)	661	2,247
Denmark—							
Quicksilver	6,800	9,500	5,300	1,500	4,409	13,448	(a)
Finland (total imports)—							
Quicksilver and amalgam	13,393	63,707	88,709	41,526	40	4,319	55,791
France—							
Quicksilver	61,300	13,400	1,500	9,105	369,936	515,882	560,195
Mercury salts	—	7,100	38,400	309	2	50,927	14,110
Germany—							
Cinnabar	—	200	200	(e) —	} (a)	(a)	(a)
Quicksilver and amalgam	5,051,600	3,752,500	4,565,100	(e) 1,888,700			
Mercury salts	14,300	7,900	15,900	(e) 200			
Netherlands—							
Quicksilver and amalgam	44,590	74,856	57,294	(a)	(a)	123,459	(a)
Norway—							
Quicksilver	5,739	2,958	132,044	183	3,598	177,148	(a)

(a) Information not available.

(c) Excess of re-exports.

(f) January to November only.

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

(d) February to September only.

(e) January to July only.

IMPORTS OF QUICKSILVER, ETC. (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Portugal—							
Quicksilver	1,010	8,228	2,130	12,822	26,336	36,612	29,008
Mercury salts	35,089	5,650	3,212	2,037	3,199	6,113	9,509
Sweden—							
Quicksilver	9,989	184,635	19,002	32,631	131,407	525,690	227,901
Switzerland—							
Quicksilver	276,204	77,722	99,662	10,587	10,818	192,338	64,653
Algeria—							
Quicksilver	441	661	—	—	—	—	—
Mercury salts	154	66	—	286	22	44	—
Egypt—							
Quicksilver	988	8,093	19,165	399	174	1,023	(a)
Morocco (French)—							
Quicksilver	331	—	551	1,543	—	331	386
Mozambique—							
Quicksilver	57	29	24	9	11	236	(a)
Tunis—							
Quicksilver	—	—	200	—	—	—	200
Costa Rica—							
Quicksilver	(a)	1,953	730	946	677	3,589	(a)
Cuba (total imports)—							
Quicksilver	4,418	1,662	911	1,188	4,191	(a)	(a)
Mexico—							
Quicksilver	736	198	397	710	1,186	988	(a)
Mercury salts	5,033	101,973	2,183	1,530	917	3,971	(a)
United States—							
Quicksilver	588,228	2,959,489	2,504,489	1,476,426	5,086,247	876,853	749,618
Mercury salts	49	2	(a)	—	(a)	(a)	(a)
Argentina—							
Quicksilver	47,538	76,084	4,478	58,070	22,555	60,528	(a)
Mercury salts	10,983	11,843	1,058	2,161	7,875	8,389	(a)
Brazil (total imports)—							
Quicksilver	41,972	34,397	31,919	59,082	30,053	76,478	(a)
Chile—							
Quicksilver	1,779	1,232	529	545	205	—	(a)
Mercury salts	2,057	1,680	238	2,628	2,284	2,901	(a)
Colombia—							
Quicksilver	44,412	5,670	2,372	6,821	(a)	9,083	(a)
Mercury salts	62	794	9,484	(a)	(a)	3,545	(a)
Dutch Guiana—							
Quicksilver	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Peru—							
Quicksilver	3,706	216	—	110	165	183	(a)
Mercury salts	741	1,680	2,584	1,362	430	1,493	(a)
Uruguay—							
Quicksilver	(a)	(a)	1,550	66	(a)	(a)	(a)
Venezuela—							
Quicksilver	2,513	3,278	48,215	(a)	(a)	(a)	(a)
Mercury salts	5,223	763	1,545	(a)	(a)	(a)	(a)
China—							
Vermilion	(a)	(a)	(a)	(a)	(a)	(b) 15,584	(b) 83,121
Iran (total imports) (c)—							
Quicksilver	95	606	1,325	(a)	(a)	(a)	(a)
Japan—							
Quicksilver	2,953,000	42,229	607,400	26,955	225	(a)	(a)
Syria and Lebanon—							
Quicksilver	—	—	—	—	44	3,505	(a)
Turkey—							
Quicksilver	(a)	(a)	(a)	141	353	509	692
Mercury salts	(a)	(a)	(a)	1,658	1,852	3,128	10,055

(a) Information not available.

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

(b) Including artificial vermilion.

SALT
PRODUCTION OF SALT
(Long tons)

Producing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Great Britain—							
Rock-salt	22,926	26,968	21,174	17,490	16,792	20,490	39,997
Brine-salt	837,779	879,362	796,459	827,982	820,409	875,281	851,625
Salt in brine (e)	2,530,155	2,689,739	2,555,755	2,525,978	2,396,050	2,456,779	2,247,277
Northern Ireland—							
Brine-salt	13,392	13,286	11,006	11,043	12,479	13,261	12,404
Mauritius—							
Sea-salt	(c) 1,000	(c) 1,000	3,350	3,867	2,960	3,115	3,928
South West Africa—							
Rock-salt	1,377	1,866	2,063	3,216	2,795	3,477	2,744
Other salt	7,711	7,683	8,073	8,954	10,690	10,423	9,705
Anglo-Egyptian Sudan	40,026	39,004	39,849	35,401	43,769	40,335	36,408
Kenya	13,946	13,473	15,076	13,829	15,242	15,388	13,836
Tanganyika Territory	8,355	9,183	10,399	10,005	9,352	13,162	10,666
Uganda	4,246	4,146	5,160	(a)	(a)	5,589	6,892
Union of South Africa (b)	125,647	131,504	106,973	121,611	138,272	141,407	(a)
Canada (sales)—							
Rock-salt	48,221	44,821	42,656	34,651	33,772	34,260	35,810
Brine-salt	452,534	538,815	571,349	586,078	567,189	446,084	614,677
British West Indies—							
Sea-salt—							
Bahamas (exports)	28,250	6,036	821	11,571	33,500	82,357	72,607
Turks and Caicos Islands	35,991	42,864	73,850	30,865	19,470	29,045	—
Aden	178,811	68,837	199,236	205,508	139,945	113,042	194,549
Burma	(a)	(a)	(a)	(a)	(a)	(a)	(f) 33,702
Ceylon	28,061	18,383	13,563	28,233	41,695	42,920	22,791
Cyprus	—	5,500	—	5,250	—	3,375	15,375
India—							
Rock-salt	192,796	216,014	327,585	} 1,864,725	1,943,593	1,918,106	(a)
Other salt	1,586,182	1,675,946	1,599,308				
Palestine—							
Rock-salt	567	1,856	1,793	1,162	2,110	1,546	(a)
Sea-salt	10,792	10,536	17,671	18,754	16,092	22,797	(a)
Australia (d)—							
South Australia	170,691	174,176	184,312	164,885	171,067	158,214	155,074
Total*	6,400,000	6,600,000	6,500,000	6,500,000	6,400,000	6,370,000	6,500,000
FOREIGN COUNTRIES							
Austria—							
Rock-salt	528	414	} 102,631	{ 3,500	} 52,106	{ 543	4,275
Brine-salt	105,128	102,633						{ 88,500	{ 77,323	79,851
France—							
Rock-salt and brine-salt	1,263,603	1,133,697	1,125,030	537,690	632,233	1,192,125	1,723,100
Sea-salt	567,000	549,049	552,150	404,023	505,919	469,220	434,557

* See page 274.

(a) Information not available.

(b) Years ended June 30 of that stated.

(c) Estimated.

(d) Salt is also produced in Victoria and Western Australia but figures are not available.

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

(f) January to April only.

PRODUCTION OF SALT (Cont.)

Producing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Germany—							
Rock-salt	3,606,000	4,061,000	(a)	(a)	(a)	} (d)1,520,557	(d)1,740,271
Other salt	655,000	560,000	(a)	(a)	(a)		
Greece—							
Sea-salt	(a)	(a)	(a)	(a)	(a)	75,000	85,000
Italy—							
Rock-salt and brine-salt	709,131	} (a)	(a)	(a)	(a)	(a)	(a)
Sea-salt	742,931						
Netherlands (brine-salt) ..	153,733	190,700	190,648	122,223	52,800	177,394	236,779
Poland—							
Rock-salt and brine-salt	} (a)	(a)	(a)	(a)	(a)	} 269,758	} 333,723
Salt in brine							
Portugal—							
Rock-salt	60	50	73	79	70	45	68
Sea-salt (exports)	6,871	735	51	3,371	7,646	81,663	24,675
Roumania—							
Rock-salt and sea-salt ..	264,800	354,000	371,000	(a)	(a)	(a)	(a)
Spain—							
Rock-salt	192,595	244,380	262,021	239,237	224,423	258,508	261,059
Other salt	352,559	399,258	492,489	441,966	(a)	(a)	(a)
Switzerland	77,042	80,102	75,475	83,351	81,352	90,635	106,055
Algeria—							
Brine-salt and sea-salt ..	67,359	59,692	25,412	45,832	49,181	65,519	80,759
Angola	39,668	44,432	42,733	37,058	48,769	60,683	38,170
Belgian Congo	1,141	1,172	(b) 1,200	1,684	875	629	756
Canary Islands	20,262	13,951	13,315	14,634	16,044	13,443	6,846
Cape Verde Islands	27,430	25,375	11,778	17,248	7,761	14,149	9,100
Egypt (b)	350,000	350,000	350,000	350,000	350,000	350,000	350,000
Eritrea (sea-salt)	1,689	8,810	8,762	10,781	26,629	40,320	45,000
Ethiopia (b)	10,000	10,000	10,000	10,000	10,000	10,000	10,000
French Somaliland	3,258	200	21,893	41,971	45,400	31,700	47,000
Morocco (French)—							
Rock-salt	} 35,687	41,878	{ 3,947	5,024	6,092	10,423	9,864
Brine-salt .. ..								{ 36,890	27,228	27,499	40,328	(a)
Morocco (Spanish)—							
Sea-salt (b)	250	250	250	250	250	250	250
Mozambique	7,572	2,522	8,092	5,630	5,723	7,096	8,526
Tunis (sea-salt)	105,970	61,139	9,891	51,651	60,322	91,925	112,979
Cuba (sea-salt)	40,881	43,043	46,348	45,491	51,508	55,885	50,416
Dominican Republic	12,529	5,602	12,421	11,100	14,900	15,500	12,000
Haiti (b)	2,000	(a)	8,000	8,000	(a)	(a)	(a)
Mexico (b)	(a)	570,000	730,000	(a)	(a)	(a)	(a)
Netherlands West Indies ..	(c) 3,175	(c) 4,502	(c) 4,715	(c) 5,069	(a)	(a)	(a)
Nicaragua (b)—							
Sea-salt	6,000	6,000	6,000	6,000	6,000	6,000	6,000
Panama	(a)	20,359	—	20,248	4,796	15,664	8,722
Porto Rico (sea-salt) (b) ..	15,000	15,000	15,000	15,000	15,000	15,000	15,000
United States (sales)—							
Rock-salt	2,338,471	2,502,042	2,909,945	3,078,784	3,130,125	2,901,301	3,352,101
Salt in brine	6,045,925	6,583,183	7,108,138	7,434,207	7,773,063	7,563,107	8,236,878
Evaporated salt	2,973,309	3,140,922	3,565,981	3,520,197	2,841,580	2,901,301	2,820,284
Argentina—							
Rock-salt	846	349	739	2,202	3,221	(a)	(a)
Brine-salt	366,803	358,526	434,051	441,946	426,276	(a)	(a)
Bolivia (b)	(a)	17,000	19,000	(a)	(a)	(a)	(a)
Brazil (sea-salt)	715,134	589,084	409,562	446,437	423,368	599,577	553,685
Chile	56,451	54,650	36,525	45,664	47,324	61,738	58,472

(a) Information not available.

(b) Estimated.

(c) Exports.

(d) British, U.S. and French Zones.

PRODUCTION OF SALT (Cont.)

Producing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Colombia—							
Rock-salt	4,458	4,740	5,177	} 100,577	89,196	91,000	(a)
Brine-salt (d)	59,000	71,000	88,000				
Sea-salt	19,091	31,412	18,673				
Costa Rica	6,000	7,605	3,360	6,100	6,000	8,000	(a)
Ecuador (sea-salt)	19,888	24,500	11,758	35,390	27,200	34,500	(a)
Guatemala—							
Sea-salt	(a)	11,577	12,416	12,443	(a)	(a)	(a)
Peru—							
Rock-salt	} 46,115	45,114	48,253	49,834	} 10,238	9,064	10,207
Sea-salt							
Brine-salt							
Venezuela (sea-salt)	40,457	20,678	35,451	47,038	56,552	89,125	35,229
China (f)	4,527,133	5,115,820	1,492,850	988,387	787,793	2,231,535	(a)
French Indo-China	312,000	271,600	216,300	145,800	99,388	(g) 14,502	40,900
Iraq	9,980	11,241	20,687	11,606	13,982	9,362	12,435
Japan (c)	383,290	467,909	408,064	339,705	220,679	353,275	(b) 140,462
Lebanon	(a)	1,029	7,055	(a)	(a)	(a)	(a)
Netherlands East Indies (e)	233,567	162,824	262,893	272,668	128,391	29,385	(a)
Portuguese India	31,622	(a)	(a)	(a)	(a)	(a)	20,000
Siam	306,890	226,724	183,654	106,423	40,739	135,427	(a)
Syria	(d) 15,000	(d) 15,000	16,829	(a)	(a)	(a)	(d) 30,000
Turkey—							
Rock-salt	21,997	21,756	22,614	} 262,125	(a)	{ 19,896	26,552
Brine-salt, etc.							
Sea-salt							
	171,151	199,657	239,510			{ 30,176	74,296
						{ 152,973	171,622
TOTAL*	31,000,000	34,000,000	30,000,000	28,000,000	27,000,000	30,000,000	33,000,000
WORLD'S TOTAL*	37,000,000	40,000,000	37,000,000	34,000,000	33,000,000	36,000,000	40,000,000

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

(a) Information not available.

(b) From April, 1947, the figures refer to government-licensed plants only.

(c) Years ended March 31 following that stated.

(d) Estimated.

(e) Government production of brine-salt.

(f) U.S. Bureau of Mines.

(g) Cochin-China only.

EXPORTS OF SALT

(Domestic Produce)

(Long tons)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Rock-salt	5,973	3,608	4,188	4,098	3,415	7,332	5,550
Other salt	184,663	143,044	124,731	132,972	135,579	170,315	142,413
Anglo-Egyptian Sudan	24,801	16,031	19,599	11,400	3,770	20,768	46,745
Gold Coast	(a)	743	3	1	1	1	(£8)
Kenya and Uganda	1,129	1,879	1,465	1,581	1,912	1,999	1,616
Southern Rhodesia	—	—	198	136	157	132	201
South-West Africa	(a)	(d)	(d)	(d)	(d)	(a)	(a)
Tanganyika Territory	3,384	3,260	3,819	3,662	2,648	3,427	3,110
Union of South Africa	18,269	15,389	3,704	256	2,626	(a)	(a)
Canada	11,183	8,327	7,198	2,841	4,745	5,236	10,010
British West Indies—							
Bahamas (b)	28,250	6,036	821	11,571	33,500	82,357	72,607
Leeward Islands	4,568	5,226	2,745	4,625	7,596	6,444	(a)
Turks and Caicos Islands (b)	47,418	15,335	8,435	9,536	12,750	20,937	74,420
Aden	141,435	72,399	91,415	119,711	62,305	88,748	320,770
British India (c)	44,580	29,801	31,462	(f) 4,513	(f) 232	(f) 7,111	(f)(g) 152
Ceylon	6	21	10	242	260	27	213
Hong Kong (including re-exports)	(a)	(a)	(a)	(a)	(a)	10,504	14,638
Malaya (including re-exports)	(a)	(a)	(a)	(a)	(a)	18,236	51,297
Australia—							
Rock-salt	10	14	184	36	7	108	10
Refined salt (£ Australian)	(£7,857)	(£2,735)	(£2,657)	(£3,093)	(£14,288)	(£8,023)	(£111,825)
Other salt	27,842	14,444	34,955	16,970	24,718	14,574	10,969
FOREIGN COUNTRIES							
Austria	12,039	—	—	994	1,281	6,705	7,450
Belgium-Luxemburg E.U.—							
Common salt	6	46	29	1	(a)	(a)	(a)
Refined salt	2	—	—	—	(a)	(a)	(a)
Denmark—							
Refined salt, etc.	1	1	1	1	11	54	(a)
France	23,708	31,001	1,674	444	30,635	128,670	183,614
Germany—							
Rock-salt, sea-salt, etc.	907,947	1,034,903	1,364,859	(e) 704,020	(a)	(a)	(a)
Italy—							
Rock-salt and sea-salt	(a)	(a)	(a)	(a)	(a)	(a)	302,033
Netherlands—							
Rock-salt and sea-salt	16	—	238	(a)	(a)	—	(a)
Refined salt and waste	75,190	84,165	76,500	(a)	(a)	65,288	(a)
Norway—							
Common salt	1	—	—	—	—	3,271	(a)
Refined salt	5	—	—	—	5	4	(a)

(a) Information not available.

(b) Converted from bushels at the rate of 28 bushels = 11 long ton.

(c) Includes trade by land as recorded.

(d) Exports of salt are not separately recorded but imports into the Union of South Africa from S.W. Africa were (long tons):—1942—141; 1943—654; 1944—13,505; 1945—92.

(e) January to July only.

(f) Sea-borne trade only.

(g) January to November only.

EXPORTS OF SALT (Cont.)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Portugal	6,871	735	51	3,371	7,646	81,663	24,675
Spain	26,212	116,863	64,504	73,728	192,991	327,412	339,195
Sweden	3	7	1	732	13,959	2,437	2,258
Algeria	9,132	6,656	676	453	1,828	10,022	15,629
Angola	12,553	13,176	25,146	20,131	(a)	(a)	(a)
Cape Verde Islands ..	9,776	23,177	12,020	12,045	(a)	(a)	(a)
Egypt—							
Common salt	153,045	107,905	105,287	195,971	251,373	222,519	612,767
French Somaliland ..	326	197	21,893	41,970	23,112	25,324	48,016
French West Africa ..	1,541	748	2,330	700	353	2,023	3,225
Madagascar	1,412	691	469	146	(a)	(a)	(a)
Mozambique	93	4,631	2,667	1,903	2,963	5,121	(a)
Morocco (French) ..	508	150	1	1,076	—	6,294	65
Morocco (Spanish) ..	(a)	(a)	(a)	93	347	800	398
Tunis (including re-exports)							
Rock-salt and sea-salt ..	2,049	6,848	3,197	4,406	65,062	14,909	60,436
Cuba	306	180	409	523	(a)	(a)	(a)
Mexico	100	24	—	—	1	—	(a)
Netherlands West Indies ..	3,175	4,502	4,715	5,069	(a)	(a)	(a)
United States	109,996	105,736	130,277	177,114	170,111	199,488	168,131
Argentina	56,759	56,880	107,673	109,606	38,551	34,404	(a)
Brazil	583	688	1,563	8,112	1,188	482	(a)
Chile	4,079	241	5,551	7,461	166	148	(a)
Ecuador	95	247	178	(a)	(a)	(a)	(a)
China—							
Refined salt	770,301	(a)	(a)	(a)	244,301	24,048	9,842
Other salt							
Formosa (c)	170,000	175,000	175,000	200,000	(a)	(a)	(a)
French Indo-China ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Iran (including re-exports)(b)	1,011	443	297	(a)	(a)	(a)	(a)
Japan	(a)	(a)	(a)	(a)	(a)	(a)	3,248
Portuguese India	10,356	13,559	10,206	10,921	9,700	(a)	(a)
Siam (including re-exports)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Turkey	(a)	(a)	(a)	—	—	52,723	(a)

(a) Information not available.

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

(c) U.S. Bureau of Mines "Foreign Minerals Survey." Estimated imports into Japan from Formosa.

IMPORTS OF SALT

(Less Re-exports)

(Long tons)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Rock-salt	200	—	78	—	923	—	—
Other salt	(b) 87	86	—	3	7	15,804	104,252
Eire—							
Refined salt	5,052	4,057	2,587	3,006	2,764	3,489	3,346
Other salt	44,955	35,409	22,467	28,675	25,249	29,581	29,109
Malta—							
Refined salt	(a)	(a)	(a)	(a)	(£2,068)	(£2,975)	(£359)
Other salt	(a)	(a)	(a)	(a)	687	2	1
Anglo-Egyptian Sudan ..	422	324	64	—	286	259	217
Gambia	721	83	383	1,140	175	2	147
Gold Coast—							
Refined salt	(a)	13	3	8	14	15	36
Other salt	869	492	45	27	8	406	471
Kenya and Uganda	214	1,650	5,899	2,041	(b) 182	2,117	7,030
Mauritius	138	322	—	495	500	—	—
Nigeria	39,842	76,218	51,637	61,673	56,560	67,723	79,350
Northern Rhodesia	3,152	2,560	4,556	3,802	3,543	4,475	3,677
Nyasaland	2,695	4,142	4,872	2,228	4,698	5,552	2,735
Seychelles	159	147	162	525	187	—	86
Sierra Leone	1,637	1,628	3,207	3,034	2,968	3,868	2,988
Somaliland	(a)	6,648	2,695	2,317	1,320	1,310	(a)
South West Africa	559	279	254	188	372	(a)	(a)
Southern Rhodesia	9,331	7,433	13,575	13,803	10,270	4,853	11,044
Tanganyika Territory ..	239	(b) 5	441	256	814	584	194
Union of South Africa—							
Rock-salt	18	—	4,789	—	29	(a)	(a)
Common salt and refined salt	1,296	2,556	15,145	22,753	841	(a)	(a)
Zanzibar	546	1,133	1,528	2,874	665	3,078	822
Canada (total imports)—							
Salt for use of fisheries	14,889	18,630	18,783	28,088	21,164	44,516	45,663
Refined salt	3	1	—	—	—	1,365	36
Other salt	57,230	43,087	56,475	103,414	96,843	157,959	150,622
Newfoundland (e)—							
Salt in bulk	(c) 27,207	(d) 33,212	47,252	40,221	56,960	60,819	60,328
Refined salt	(c) (£5,361)	(d) (£4,878)	(£7,383)	591	737	731	(a)
British Honduras	(c) 391	442	287	351	298	453	457
British West Indies—							
Barbados	2,046	1,751	2,006	2,047	1,604	866	2,047
Bermuda	207	190	184	101	174	118	156
Dominica	(a)	(a)	(a)	(a)	(a)	247	342
Grenada	241	526	220	838	284	707	836
Jamaica—							
Rock-salt	44	94	31	—	(b) 1	16	116
Other salt	8,445	10,277	9,614	8,579	8,088	9,937	8,880
Leeward Islands	—	—	—	—	2	(a)	(a)
St. Lucia—							
Common salt	227	(a)	(a)	(a)	(a)	(a)	(a)
Refined salt	11	(a)	(a)	(a)	(a)	(a)	(a)
St. Vincent—							
Unrefined salt ..	(a)	(a)	(a)	(a)	1,537	826	(a)
Refined salt	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Trinidad and Tobago—							
Rock-salt	298	749	371	660	885	147	(a)
Refined salt	3,852	4,544	2,130	3,858	1,750	2,575	(a)

(a) Information not available.

(b) Excess of re-exports.

(c) Year ended June 30 following that stated.

(d) Nine months ended March 31, 1943.

(e) Years ended March 31 following that stated.

IMPORTS OF SALT (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES (Cont.)							
British Guiana—							
Rock-salt	671	1,957	568	1,435	102	543	608
Refined salt, etc. ..	963	1,480	982	2,067	455	1,432	1,307
Aden	1	2	1	2	—	1	5
British India	278,048	117,654	174,473	441,801	278,093	85,505	(f) 246,446
Burma	(a)	(a)	(a)	(a)	(a)	(d) 1,548	(a)
Ceylon—							
Refined salt	41	20	52	23	4	2	1
Other salt	27	1,013	73	22	12,011	15	10
Cyprus	3	—	—	—	1	15	6
Hong Kong (total imports)	(a)	(a)	(a)	(a)	(a)	25,249	55,086
Malaya (total imports)—							
Refined salt	} (a)	(a)	(a)	(a)	(a)	{ 477	52
Other salt .. ..								{ 80,866	80,441
Palestine	63	40	10,194	120	—	814	(a)
Sarawak	(a)	(a)	(a)	(a)	(a)	(c) 2,617	(a)
Australia—							
Rock-salt	1,947	2,141	3,231	2,457	1,918	2,850	2,669
Refined salt	(£17,940)	(£15,177)	(£1,667)	(£2,556)	(£5,818)	(£24,196)	(£41,494)
Other salt	1,735	2,213	9,584	5,058	979	990	607
Fiji	1,068	1,143	1,690	128	785	1,240	1,524
New Zealand	49,021	52,574	68,027	28,992	41,677	41,614	57,329
Solomon Islands (b) ..	14	(a)	(a)	—	1	2	6
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Common salt	254,469	179,872	181,345	78,654	(a)	(a)	(a)
Refined salt	91,103	105,026	131,733	97,880	(a)	(a)	(a)
Bulgaria—							
Rock-salt	56,300	80,487	73,960	19,015	(a)	(a)	(a)
Sea-salt	9,063	34,543	4,464	—	(a)	(a)	(a)
Czechoslovakia—							
Common salt	} (a)	(a)	(a)	(a)	(a)	{ 157,114	136,487
Refined salt .. ..								{ 150,085	92,084
Denmark—							
Rock-salt	2,642	2,426	2,131	2,428	208	166	(a)
Refined salt	65,584	107,218	85,231	100,388	49,774	98,341	(a)
Finland (total imports)—							
Common salt	64,699	120,455	158,704	52,165	43,885	108,594	112,431
France	4,854	373	122	113	1,144	1,464	9,181
Germany—							
Rock-salt, sea-salt, etc.	13,405	33,818	55,024	(e) 43,184	(a)	(a)	(e)
Hungary	(a)	(a)	(a)	(a)	(a)	51,971	89,438
Iceland—							
Common salt	16,349	12,982	6,987	10,284	5,803	19,879	(a)
Refined salt	60	59	37	33	68	30	(a)
Italy—							
Rock-salt and sea-salt ..	(a)	(a)	(a)	(a)	(a)	(a)	1
Netherlands—							
Rock-salt	75,157	57,754	70,908	(a)	(a)	21,694	(a)
Sea-salt, etc.	—	—	—	(a)	(a)	28,296	(a)
Refined salt and waste ..	67	60	118	(a)	(a)	1	(a)

(a) Information not available.

(b) Years ended March 31 following that stated.

(c) April 15 to December 31 only.

(d) February to September only.

(e) January to July only.

(f) January to November only.

IMPORTS OF SALT (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Norway—							
Common salt	194,891	135,770	132,868	126,522	123,162	199,335	227,379
Refined salt	23,997	20,496	26,372	24,119	10,130	15,504	19,169
Portugal	4,426	60,233	22,860	15,730	1	9	176
Sweden—							
Common salt	193,962	198,763	208,310	229,793	76,795	243,671	290,643
Switzerland	347	1,234	2,994	1,868	—	472	246
Algeria	8,673	6,257	2,481	10,723	5,482	3,089	2,486
Belgian Congo	(a)	(a)	28,278	28,622	21,152	31,846	25,050
Cameroun (French) ..	6,026	7,262	8,760	10,194	6,526	4,851	10,059
Egypt—							
Common salt	129	183	176	71	213	197	(a)
French Equatorial Africa	5,889	6,733	4,614	8,373	9,673	5,027	(a)
French Togoland	2,362	1,662	2,549	4,474	3,385	3,493	7,154
French West Africa ..	8,348	1,723	1,385	970	(a)	1,299	929
Madagascar	—	—	860	2,344	(a)	(a)	(a)
Morocco (French)	8,341	14,747	1,488	1,660	7,583	7,409	3,702
Morocco (Spanish)	(a)	(a)	(a)	6,034	5,488	8,067	5,092
Mozambique	716	8,234	5,077	1,956	2,963	5,121	(a)
Portuguese Guinea	1,123	968	1,573	499	1,528	1,131	808
Réunion	1,296	680	652	494	778	969	(a)
S. Thomé and Príncipe ..	228	149	252	461	(a)	(a)	(a)
Costa Rica	(a)	4	11	19	104	191	(a)
Cuba (total imports) ..	10,820	9,747	7,897	5,597	5,213	(a)	(a)
French West Indies—							
Guadeloupe	1,746	2,234	1,543	1,758	1,796	1,518	(a)
Martinique	1,919	1,281	1,322	4,530	1,909	1,216	2,341
Mexico	2,015	2,590	4,243	7,888	1,307	1,791	(a)
Nicaragua (total imports)	333	144	372	785	152	370	251
St. Pierre and Miquelon ..	—	192	—	—	8,053	3,296	4,120
United States	13,779	6,923	688	4,954	4,065	3,797	1,704
Argentina—							
Rock-salt	237	160	414	197	—	217	} (a)
Sea-salt	248	306	311	—	—	—	
Refined salt	184	187	151	151	10	129	
Bolivia	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Brazil (total imports)—							
Common salt	6	95	53,127	99,541	29,845	23,463	(a)
Refined salt	69	14	1,228	9,956	5,474	1,040	(a)
Chile	207	184	87	204	—	147	(a)
Colombia	1,284	1,216	1,039	(a)	(a)	291	(a)
French Guiana	45	276	(a)	242	294	364	(a)
Peru	4	122	306	236	69	209	(a)
Uruguay—							
Refined salt	(a)	(a)	(a)	(a)	} (a)	(a)	(a)
Rock-salt	(a)	(a)	103	15			
Sea-salt	38,625	(a)	26,904	50,486			
French Indo-China	(a)	(a)	(a)	(a)	(a)	3,622	9,507
Iran (b)—							
Common salt	} 2,008	1,875	556	(a)	} (a)	(a)	(a)
Refined salt		11	13	(a)			
Iraq	15	12	5	5	(a)	(a)	(a)
Japan	1,481,746	1,558,336	1,387,918	838,429	444,589	(a)	747,104
Syria and Lebanon	7,140	3,567	9,069	13,116	3,609	4,098	(a)
New Caledonia	478	234	702	424	(a)	907	201

(a) Information not available.

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

SILVER
PRODUCTION OF SILVER ORE

(In terms of metal)

(Fine troy ounces)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Great Britain	59,669	47,082	33,885	34,660	27,517	23,285	23,522
Bechuanaland Protectorate	950	1,267	1,220	1,319	1,237	1,704	1,081
Gold Coast (b)	36,356	66,580	50,288	56,819	36,666	54,526	41,329
Kenya	15,642	15,602	16,354	11,500	16,659	5,493	3,859
Nigeria	(a)	(d) 5,200	(d) 2,100	1,079	1,106	666	2,130
Northern Rhodesia ..	45,699	104	41	—	2,269	(c) 634,392	73,277
Sierra Leone (b) .. .	1,259	659	389	60	—	—	—
Southern Rhodesia ..	170,364	163,776	119,322	103,776	95,975	95,168	91,901
South West Africa .. .	(a)	(a)	(a)	(a)	(a)	(a)	(h) 390,000
Swaziland	—	—	—	—	—	—	211
Tanganyika Territory ..	(b) 39,624	(b) 26,599	(b) 18,705	17,261	21,689	21,582	(b) 20,854
Uganda (b)	1,006	1,127	468	306	275	205	87
Union of South Africa ..	1,482,903	1,477,557	1,334,042	1,213,051	1,243,426	1,207,373	1,147,696
Canada	21,754,408	20,695,101	17,344,569	13,627,109	12,942,906	12,544,100	11,773,619
Newfoundland	1,657,127	1,106,115	1,258,708	1,163,206	1,076,129	1,107,827	956,052
Burma (e)	6,363,000	(f) 4,269,000	(a)	(a)	(a)	(a)	(a)
Cyprus	101,461	38,581	17,282	4,882	—	—	87
India	22,930	20,098	18,611	14,239	14,154	9,821	(a)
Australia	15,412,581	14,241,811	10,329,830	9,365,726	8,076,740	9,045,280	9,527,140
Fiji	30,383	28,911	19,048	9,355	29,398	26,351	33,238
New Zealand	378,331	311,360	280,786	328,281	244,544	224,341	221,984
Total	47,600,000	42,600,000	31,000,000	26,000,000	23,830,000	25,000,000	24,290,000
FOREIGN COUNTRIES							
Czechoslovakia (d) .. .	(g) 805,000	(g) 740,000	(g) 740,000	(g) 675,000	(a)	(a)	(a)
Finland	—	22,570	59,093	41,185	33,115	140,209	188,821
France	337,133	364,429	310,737	240,134	350,025	535,214	475,188
Germany	5,700,000	5,600,000	(a)	(a)	(a)	(a)	(a)
Italy	783,000	554,000	355,000	15,700	29,700	(a)	(a)
Norway	257,206	253,991	231,485	169,174	132,374	201,926	226,679
Portugal	(a)	(a)	(a)	(a)	(a)	(a)	7,395
Roumania	127,000	90,000	79,000	71,000	190,000	(a)	481,200
Spain	455,319	143,714	656,407	778,060	(a)	(a)	(a)
Sweden	1,245,488	1,476,426	1,306,220	1,292,299	1,135,178	1,294,935	1,088,656
Algeria	45,000	18,300	15,432	48,612	14,661	39,996	48,226
Belgian Congo	3,472,000	3,922,000	3,119,000	2,733,000	4,147,000	5,048,000	4,051,000
Morocco (French) .. .	142,588	84,556	85,714	65,427	107,609	196,763	375,038
Mozambique	1,286	900	547	836	997	804	707
Tunis	54,700	51,400	8,906	35,205	34,369	60,122	53,852
Costa Rica	12,000	6,000	1,200	3,500	1,400	600	(a)

(a) Information not available.

(b) Exports.

(c) Recovered from refinery slimes accumulated during the war years.

(d) Estimated.

(e) Years ended June 30 of year stated.

(f) Nine months ended March 31, 1942.

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

(h) Estimated content of ores sorted ex dumps.

PRODUCTION OF SILVER ORE (Cont.)

Producing Country	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Cuba	(d) 27,150	36,238	(d) 142,420	(d) 42,985	(d) 107,195	127,222	(a)
Mexico	78,363,963	84,864,359	86,371,556	73,502,803	61,097,728	43,263,132	58,843,864
United States	67,258,997	54,090,765	41,460,826	34,473,540	29,024,197	22,914,604	35,823,563
Honduras	3,528,000	3,484,000	3,164,000	3,115,000	3,003,495	2,682,910	2,403,500
Nicaragua	(b) 272,574	(b) 265,179	(b) 251,901	(b) 248,529	236,000	257,000	215,000
Salvador	190,319	223,157	220,976	286,466	221,144	291,689	(a)
Argentina (c)	3,194,000	1,319,000	1,034,000	(a)	(a)	(a)	(a)
Bolivia (b)	7,349,000	8,121,000	7,300,000	6,798,000	6,683,561	6,106,165	6,265,505
Brazil	21,170	25,733	30,048	28,722	28,383	21,965	20,291
Chile	1,248,724	906,381	1,006,677	996,548	825,438	557,333	763,130
Colombia	271,115	246,281	209,950	197,323	168,699	152,651	(a)
Ecuador	274,335	261,945	362,013	376,565	255,965	254,271	(a)
Peru	15,119,168	16,035,150	14,659,859	15,832,567	12,997,845	12,334,249	10,782,995
French Indo-China	849	45	—	—	—	—	—
Japan	13,522,666	13,012,306	6,376,553	5,029,341	562,000	1,068,691	2,071,022
Korea	(a)	3,089,000	2,829,000	2,578,000	—	—	—
Netherlands East Indies	1,830,760	—	—	—	—	—	—
Philippine Islands	(e) 1,260,097	(e) 231,197	(e) 26,061	(a)	17,208	3,600	(a)
Saudi Arabia	45,305	23,369	47,768	3,514	24,144	31,307	49,805
Total*	215,000,000	207,000,000	185,000,000	160,000,000	130,000,000	107,000,000	135,000,000
WORLD'S TOTAL*	263,000,000	250,000,000	216,000,000	186,000,000	154,000,000	132,000,000	159,000,000

* Figures for certain large producers such as the U.S.S.R. and Yugoslavia are not available; an allowance has been made for these and other countries where information is not yet available.

(a) Information not available.

(b) Exports.

(c) Revised.

(d) Imports into the United States.

(e) U.S. Bureau of Mines.

EXPORTS OF SILVER*

(In terms of metal)

(Fine troy ounces)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Unrefined bullion	—	—	—	—	—	—	—
Refined bullion	92,704	78,476	6,027	3,192	5,733	19,320,000	30,239,428
Anglo-Egyptian Sudan—							
Bullion	—	3,300	18,600	—	—	—	—
Gold Coast—							
Bullion	36,400	66,600	50,300	56,800	36,700	54,500	41,300
Northern Rhodesia—							
Bullion	180	80	80	—	10	40	(a)
Sierra Leone—							
Bullion	1,259	659	389	60	—	—	—
Southern Rhodesia—							
Concentrates	137,000	167,000	39,000	—	—	—	—
Bullion	148,300	145,600	118,800	100,600	96,200	95,600	90,400
Tanganyika Territory—							
Bullion	39,624	26,599	18,705	17,120	21,594	21,179	20,854
Uganda—							
Bullion	1,006	1,127	468	306	275	205	87
Union of South Africa—							
Bullion	51,000	—	—	—	200	409,000	(a)
Zanzibar—							
Bullion	—	—	—	—	—	700	2,100
British West Indies—							
Trinidad and Tobago—							
Bullion	—	—	—	—	—	129	(a)
Canada—							
Ore, concentrates, etc. ..	4,069,000	3,535,000	2,253,000	2,390,000	2,066,000	1,658,000	2,679,000
Bullion	13,166,000	10,646,000	9,199,000	3,577,000	2,587,000	2,317,000	7,277,000
British India (b)—							
Bullion	28,944,000	33,643,000	1,606,000 (e)	—	(e) 3,400	(e) 20,800	(e) —
Burma—							
Bullion	(a)	(a)	(a)	(a)	(a)	(d) 78,257	(a)
Cyprus—							
Ore, etc.	103,200	34,600	13,300	7,600	—	—	—
Hong Kong—							
Bullion	(a)	(a)	(a)	(a)	(a)	6,935,000	10,002,000
Malaya—							
Bullion	(a)	(a)	(a)	(a)	(a)	80,000	36,700
Australia—							
Ores, concentrates and							
matte	(c) 811,000	(c) 1,655,000	(c) 858,000	(c) 1,286,000	1,143,000	458,000	1,669,000
Bullion	(c) 2,298,000	(c) 3,345,000	(c) 8,300	(c) —	19,000	228,000	2,897,000
Fiji—							
Bullion	29,600	25,800	23,600	10,800	25,700	16,700	35,000
New Zealand—							
Concentrates, sweepings	(a)	400	600	300	1,000	2,200	7,600
Bullion	(a)	320,000	197,000	202,000	97,600	69,300	101,500
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Bullion and scrap	} (a)	(a)	(a)	(a)	(a)	(a)	320,000
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) February to September only.

(e) Sea-borne trade only.

EXPORTS OF SILVER (Cont.)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
France—							
Bullion	(a)	(a)	(a)	(a)	(a)	(a)	65,000
Beaten, rolled or drawn	10,000	498,000	112,000	—	13,500	250,000	100,000
Italy—							
Bullion, etc.	(a)	(a)	(a)	(a)	(a)	(c) 16,000	(c) 1,123,000
Netherlands—							
Bullion and scrap ..	(a)	(a)	(a)	(a)	(a)	420,000	970,000
Norway—							
Bullion	(a)	(a)	(a)	(a)	(a)	(a)	215,000
Sweden—							
Bullion	180,000	160,000	160,000	100,000	200,000	300,000	250,000
Switzerland—							
Bullion	2,000	14,000	1,000	22,000	1,000	8,000	130,000
Belgian Congo—							
Bullion	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Egypt—							
Bullion and scrap ..	—	2,700	—	—	(a)	(a)	(a)
Cuba—							
Bullion	1,000	—	—	—	(a)	(a)	(a)
Honduras (b)—							
Bullion	3,500,000	3,300,000	3,000,000	3,200,000	(a)	(a)	(a)
Mexico—							
Bullion, etc.	79,161,000	67,841,000	28,805,000	18,013,000	(a)	(a)	(a)
Nicaragua—							
Concentrates	273,000	265,000	252,000	249,000	226,000	235,000	(a)
Salvador—							
Bullion	246,000	191,000	202,000	306,000	(a)	(a)	(a)
United States—							
Ore and base bullion ..	4,000	4,000	400,000	—	—	8,000	} 40000,000
Refined bullion	8,400,000	1,400,000	34,400,000	137,300,000	98,000,000	36,000,000	
Argentina—							
Bullion	473,000	473,000	610,000	200,000	(a)	(a)	(a)
Bolivia—							
Ores, etc.	7,349,000	8,121,000	7,300,000	6,798,000	6,684,000	6,106,000	6,266,000
Chile—							
Ore	430,000	90,000	90,000	(a)	(a)	(a)	(a)
Peru—							
Ores, concentrates, etc. . .	3,929,000	1,460,000	1,697,000	3,034,000	(a)	(a)	(a)
Bullion	11,084,000	12,618,000	11,663,000	8,349,000	(a)	(a)	(a)
China—							
Bullion	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Iran—							
Bullion	—	—	300,000	(a)	(a)	(a)	(a)
Philippine Islands—							
Bullion	(a)	(a)	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

(b) Years ended July 31 of year stated.

(c) Gross weight.

IMPORTS OF SILVER*
(In terms of metal)
(Fine troy ounces)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Ores	3,000,000	3,300,000	2,400,000	847,000	259,000	542,000	2,486,000
Unrefined bullion	14,408,000	4,200	13,100	53,000	50	838,000	1,029,000
Refined bullion	4,096,000	8,021,000	21,703,000	36,140,000	28,873,000	32,675,000	33,711,000
Malta—							
Bullion	(a)	(a)	(a)	(a)	200	6,600	9,300
Anglo-Egyptian Sudan—							
Bullion	—	1,000	—	—	(a)	(a)	10,500
Gold Coast—							
Bullion	—	200	15	—	—	2	2,400
Kenya and Uganda—							
Bullion	200	—	—	—	—	—	180
Nigeria—							
Bullion	800	—	—	—	—	10,388	17,901
Sierra Leone—							
Bullion	400	—	—	—	—	195	186
Tanganyika Territory—							
Bullion	150	—	—	—	—	—	—
Union of South Africa—							
Bullion	254,000	226,000	183,000	153,000	148,000	130,000	(a)
Zanzibar—							
Bullion	—	—	—	—	—	200	2,100
Canada—							
Bullion	264,000	31,000	—	—	1,800	1,840,000	71,500
British Guiana—							
Bullion	—	—	—	3,400	—	760	230
British West Indies—							
Trinidad and Tobago—							
Bullion	—	8,000	—	—	—	2,000	(a)
Ceylon—							
Bullion	6,000	41,000	38,900	11,000	9,000	23,000	26,000
Cyprus—							
Bullion	1,800	7,800	3,000	—	6,000	1,200	19,300
British India (b)—							
Bullion	11,642,000	5,158,000	13,021,000	482,205,000	459,865,000	446,441,000	439,454,000
Hong Kong—							
Bullion	(a)	(a)	(a)	(a)	(a)	12,000	1,200
Malaya—							
Bullion	(a)	(a)	(a)	(a)	(a)	130,000	30,600
Palestine—							
Bullion	(a)	4,400	—	—	62,300	19,300	(a)
Australia—							
Bullion	(c) 227,000	(c) 120,000	(c) 19,000	(c) 7,000	6,000	19,000	44,000
Fiji—							
Bullion	(a)	(a)	(a)	(a)	(a)	2,800	530
New Zealand—							
Bullion	(a)	7,500	100	900	11,100	3,000	2,800
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Bullion and scrap	} (a)	(a)	(a)	(a)	(a)	(a)	1,590,000
Beaten, rolled or drawn							
Bulgaria—							
Bullion, etc.	2,700	12,000	17,000	9,500	(a)	(a)	(a)

* 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) January to November only.

IMPORTS OF SILVER (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Czechoslovakia—							
Bullion and scrap ..	(a)	(a)	(a)	(a)	(a)	(a)	175,000
Denmark—							
Bullion, etc.	120,000	93,000	74,000	120,000	—	—	—
Finland—							
Bullion, etc.	170,000	14,000	33,000	24,000	11,000	15,000	14,000
France—							
Bullion	(a)	(a)	(a)	(a)	(a)	(a)	150,000
Beaten, rolled or drawn	28,000	11,000	11,000	600	6,000	10,000	37,000
Italy—							
Bullion, etc. (b)	273,000	1,327,000	817,000	—	—	12,900	1,122,000
Netherlands—							
Bullion and scrap ..	(a)	(a)	(a)	(a)	(a)	1,600,000	(a)
Norway—							
Bullion	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Beaten, rolled or drawn	43,000	3,400	2,000	700	(a)	(a)	(a)
Portugal—							
Bullion	(a)	(a)	(a)	(a)	(a)	—	(a)
Sweden—							
Bullion	760,000	260,000	1,900,000	1,400,000	900,000	4,000,000	(a)
Switzerland—							
Bullion	1,800,000	600,000	2,800,000	1,500,000	3,000,000	3,000,000	1,500,000
Algeria—							
Bullion, etc.	17,000	322,000	130	400	8,600	6,200	13,400
Egypt—							
Bullion and scrap ..	78,000	3,400	11,000	354,000	(a)	(a)	(a)
Tunis—							
Beaten, rolled or drawn	(a)	(a)	(a)	(a)	(a)	(a)	(a)
United States—							
Ore and base bullion ..	50,200,000	35,000,000	40,600,000	37,700,000	32,000,000	26,000,000	} 910,000,000
Refined bullion	84,200,000	73,100,000	22,300,000	13,700,000	17,000,000	35,000,000	
Argentina—							
Bullion	500	700	—	—	(a)	(a)	(a)
Brazil—							
Bullion	410,000	410,000	940,000	435,000	1,344,000	1,490,000	(a)
Chile—							
Bullion	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Colombia—							
Bullion	120,000	200,000	485,000	610,000	(a)	139,000	(a)
Uruguay—							
Bullion	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Venezuela—							
Bullion	13,000	5,000	100	(a)	(a)	(a)	(a)
Iran (c)—							
Bullion	—	3,000	4,000,000	(a)	(a)	(a)	(a)
Syria and Lebanon—							
Bullion	53,000	190,000	160,000	400,000	(a)	(a)	(a)
Turkey—							
Bullion, etc.	(a)	(a)	(a)	300	—	60	1,500

(a) Information not available.

(b) Gross weight.

(c) Years ended March 20 of year following. As recorded in trade returns but probably incomplete prior to 1943.

STRONTIUM MINERALS
PRODUCTION OF STRONTIUM MINERALS
(Long tons)

Producing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Celestite	(a)	2,247	—	—	—	—	4,824
Canada—							
Celestite	24	—	—	—	—	—	—
Australia—							
Celestite	72	32	—	—	—	—	—
FOREIGN COUNTRIES							
Tunis—							
Strontium minerals (Metal content) ..	90	20	—	—	59	(a)	(a)
Mexico—							
Celestite	(c) 900	(c) 6,000	(d) 8,806	(d) 2,381	(d) 2,051	(d) 1,614	(a)
United States (b)—							
Celestite	4,218	3,608	6,755	2,683	2,846	217	—
Argentina—							
Celestite	4	—	—	—	(a)	(a)	(a)

Strontianite is also produced in Germany.

(a) Information not available.

(b) Shipments.

(c) Estimated.

(d) Exports.

EXPORTS OF STRONTIUM MINERALS, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES							
France—							
Strontium compounds ..	75	20	20	14	3	13	9
Germany (b)—							
Strontianite and witherite	30	146	77	(c) 62	(a)	(a)	(a)
Strontium compounds ..	10	15	103	(c) 3	(a)	(a)	(a)
Mexico—							
Celestite	(a)	(a)	8,806	2,381	2,051	1,614	(a)
United States—							
Strontium nitrate ..	(a)	302	243	248	199	(a)	(a)
Other compounds ..	(a)	43	75	31	13	(a)	(a)

(a) Information not available.

(b) Celestite recorded with barytes.

(c) January to July only.

IMPORTS OF STRONTIUM MINERALS, ETC.

*(Less Re-exports)**(Long tons)*

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES							
France—							
Celestite	(a)	(a)	—	—	—	15	10
Strontium compounds ..	1	1	5	6	—	13	11
Mexico—							
Strontium carbonate ..	—	—	—	—	43	—	(a)
United States—							
Strontianite and celestite	3,833	9,248	15,072	5,172	3,296	4,024	12,604
Strontium compounds ..	2	—	—	—	—	(a)	12
Chile—							
Strontium compounds ..	(4 cwt.)	(10 cwt.)	(1 cwt.)	(4 cwt.)	(9 cwt.)	(12 cwt.)	(a)
Turkey—							
Strontium compounds ..	(a)	(a)	(a)	1	1	—	1

(a) Information not available.

SULPHUR

PRODUCTION OF SULPHUR*

(Long tons)

Producing Country and Description	Estimated Sulphur Content							1947	1946	1945	1944	1943	1942	1941		
	1941	1942	1943	1944	1945	1946	1947									
BRITISH COUNTRIES																
United Kingdom—																
Spent oxide (d) ..	171,400	182,400	191,700	195,400	196,800	207,500	222,965	207,500	196,800	196,800	195,400	191,700	182,400	171,400		
Eire—						(£1,513)	(£557)	(£1,513)	(£1,491)	(£1,491)	1,038	964	1,163	1,127		
Canada—						(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)		
Smelter gas ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)		
India—																
Sulphur rock ..	4,520	12,841	30,141	12,245	—	—	—	—	—	—	12,245	30,141	12,841	4,520		
Palestine—																
Sulphur ..	3,365	713	—	—	—	—	—	—	—	—	—	—	713	3,365		
Australia—																
Sulphur recovered from zinc concentrates ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)		
FOREIGN COUNTRIES																
France—																
Sulphur rock ..	5,800	7,578	10,029	12,449	31,775	11,756	12,150	11,756	31,775	31,775	12,449	10,029	7,578	5,800		
Greece—																
Sulphur rock ..	(a)	(a)	(a)	(a)	1,300	250	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)		
Italy—																
Sulphur rock ..	1,942,430	1,487,488	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	1,942,430		
Crude sulphur (c)—																
Fused ..	294,288	223,400	(a)	(a)	(a)	140,764	146,088	140,764	(a)	(a)	(a)	(a)	223,400	294,288		
Ground ..	17,802	(a)	(a)	(a)	(a)	12,592	18,716	12,592	(a)	(a)	(a)	(a)	(a)	17,802		
Norway—																
Sulphur recovered from pyrites ..	77,427	77,424	90,361	65,615	21,428	70,751	81,121	70,751	21,428	21,428	65,615	90,361	77,424	77,427		
Poland—																
Sulphur ..	(a)	(a)	(a)	(a)	(a)	6,432	(a)	6,432	(a)	(a)	(a)	(a)	(a)	(a)		
Portugal—																
Sulphur recovered from pyrites ..	11,161	11,846	10,885	11,536	12,756	12,403	7,522	12,403	12,756	12,756	11,536	10,885	11,846	11,161		
Estimated Sulphur Content																
	1941	1942	1943	1944	1945	1946	1947	1946	1945	1944	1943	1942	1941	1947	1946	1945
	86,000	91,000	96,000	93,000	98,000	104,000	111,000	104,000	98,000	93,000	96,000	91,000	86,000	111,000	104,000	98,000
	500	500	450	500	(a)	(a)	(a)	(a)	(a)	500	450	500	500	(a)	(a)	(a)
	99,013	107,978	105,416	112,781	124,921	123,422	124,236	123,422	124,921	112,781	105,416	107,978	99,013	124,236	123,422	124,921
	(a)	(a)	(a)	(a)	—	—	—	—	—	(a)	(a)	(a)	(a)	—	—	—
	3,264	692	—	—	—	—	—	—	—	—	—	692	3,264	—	—	—
	34,600	33,300	31,400	33,700	56,000	63,000	74,500	63,000	56,000	33,700	31,400	33,300	34,600	74,500	63,000	56,000
	575	703	1,000	1,021	2,672	2,083	4,257	2,083	2,672	1,021	1,000	703	575	4,257	2,083	2,672
	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
	77,396	77,385	90,316	65,582	21,417	70,696	81,040	70,696	21,417	65,582	90,316	77,385	77,396	81,040	70,696	21,417
	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
	11,139	11,822	10,863	11,479	12,692	12,242	7,424	12,242	12,692	11,479	10,863	11,822	11,139	7,424	12,242	12,692

* See also Pyrites (page 263).

(a) Information not available.

(c) Derived from sulphur rock above.

(b) Consumed by the sulphuric acid industry.

(d) Arrivals of home-produced material at acid works.

PRODUCTION OF SULPHUR (Cont.)

Producing Country and Description	Estimated Sulphur Content																			
	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950										
FOREIGN COUNTRIES (Cont.)																				
Spain—																				
Sulphur rock	52,077	32,563	41,184	46,515	35,821	29,396	26,302	10,000	6,500	8,000	9,500	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Refined sulphur	37,354	45,769	42,096	37,800	21,950	37,500	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Sweden—																				
Sulphur	8,917	8,821	14,599	16,502	24,291	21,395	13,982	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Egypt—																				
Sulphur	—	128	201	893	285	—	—	—	126	197	830	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
United States—																				
Crude sulphur	3,139,253	3,460,686	2,538,786	3,218,158	3,753,188	3,859,642	4,441,214	180,000	190,000	210,000	284,000	275,000	234,000	237,000	237,000	237,000	237,000	237,000	237,000	237,000
Smelter gas (b)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	5,493	5,125	5,101	19,096	25,184	34,990	43,427	43,427	43,427	43,427	43,427	43,427	43,427
By-product sulphur (c)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	21,197	19,097	17,591	21,964	19,308	18,366	20,631	20,631	20,631	20,631	20,631	20,631	20,631
Spent oxide	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Argentina—																				
Refined sulphur	367	2,148	10,649	11,092	9,072	(a)	(a)	250	2,137	10,543	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Bolivia (exports)—																				
Sulphur	2,463	3,627	7,078	6,049	607	464	2,251	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Ecuador—																				
Sulphur rock	(a)	(a)	60	13	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Guatemala—																				
Sulphur	(a)	10	10	—	—	—	—	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Chile—																				
Refined sulphur	24,784	22,311	25,643	25,171	20,431	30,672	29,617	24,660	22,200	25,515	25,045	20,411	30,641	29,587	29,587	29,587	29,587	29,587	29,587	29,587
Peru—																				
Sulphur	935	1,125	564	1,412	1,197	355	778	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
China—																				
Sulphur	3,393	2,176	2,500	2,229	2,000	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Iran—																				
Sulphur (d)	600	600	600	600	600	600	600	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Japan—																				
Refined sulphur	193,755	165,537	149,836	75,339	37,333	21,046	28,735	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Netherlands East Indies—																				
Sulphur	17,885	—	—	—	—	—	—	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Turkey—																				
Refined sulphur	2,142	3,051	3,326	3,348	4,088	2,970	2,620	2,121	3,020	3,293	3,314	4,047	2,940	2,594	2,594	2,594	2,594	2,594	2,594	2,594

Sulphur is also produced in U.S.S.R., Mexico, Formosa and Manchuria.

(b) Estimated sulphur content of gas driven off in the smelting of zinc and copper concentrates, chiefly used in acid making.

(a) Information not available.

(c) Sulphur produced in purification of manufactured fuel gases.

(d) Estimated.

EXPORTS OF SULPHUR

(Domestic Produce)

(Long tons)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom	52	529	141	87	678	2,553	4,383
Union of South Africa ..	5	13	273	52	165	281	(a)
Hong Kong (including re-exports)	(a)	(a)	(a)	(a)	(a)	419	778
Malaya (including re-exports)	(a)	(a)	(a)	(a)	(a)	278	54
Palestine	2,827	418	49	2	—	—	778
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.	626	390	50	376	(a)	(a)	(a)
France—							
Rock	—	10	4	—	4,876	863	16
Crude	1,175	5,608	—	—	1,738	1,772	1,230
Refined lump	2,065	1,364	—	—	2,145	7,995	4,767
Flowers of sulphur ..	7,139	5,613	—	—	—	857	8,023
Precipitated sulphur ..	615	873	1	—	—	549	1,737
Germany—							
Sulphur, etc.	32,263	17,944	30,550	(c) 15,282	(a)	(a)	(a)
Italy	(b) 160,000	(b) 120,000	(d) 50,000	(d) 50,000	(a)	(a)	20,829
Norway	76,360	55,857	80,038	58,510	18,623	60,761	71,223
Spain—							
Crude	5	—	—	—	—	—	—
Refined	—	—	—	—	—	—	—
Flowers of sulphur, etc.	981	2,002	3,035	1,488	2,564	2,020	1,982
Sweden	—	—	—	—	2,492	291	180
Algeria—							
Rock	12,223	12,913	5,894	11,505	—	4,557	—
Refined and flowers of sulphur	55	—	—	352	116	57	—
Mexico	487	1,821	2,485	986	1,234	3,033	(a)
United States—							
Crude	729,464	568,249	657,393	653,686	918,691	1,189,072	1,299,060
Refined and flowers of sulphur	31,312	17,030	25,079	21,546	23,964	56,748	50,477
Argentina	27	282	11	—	—	—	(a)
Bolivia	2,463	3,627	7,078	6,049	607	464	2,251
Chile	21,414	12,798	16,614	6,465	10,706	4,646	(a)
Peru	935	876	295	610	541	369	(a)
Japan	16,437	18,058	17,183	7,140	2,094	(a)	1,962

(a) Information not available.

(b) U.S. Bureau of Mines.

(c) January to July only.

(d) Estimated.

IMPORTS OF SULPHUR

(Less Re-exports)

(Long tons)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom	293,598	124,993	268,874	197,231	198,154	246,346	(e) 305,475
Eire	75	136	83	199	131	154	229
Malta—						(£5,223)	(£2,511)
Flowers of sulphur ..	(a)	(a)	(a)	(a)	—	(f) 39	(a)
Mauritius	(a)	(a)	(a)	(a)	—	3	154
Northern Rhodesia ..	—	—	—	145	3	28	(a)
South West Africa ..	56	62	43	34	89	106	(a)
Southern Rhodesia ..	6	9	4	5	(a)	5	13
Union of South Africa—							
Rock-sulphur	} 26,560	21,655	14,139	33,086	33,728	29,479	(a)
Flowers of sulphur ..							
British Guiana	—	5	4	20	2	2	1
Canada	210,063	226,894	195,113	210,674	222,184	244,198	322,665
Newfoundland (c) ..	(a)	(a)	(a)	10,047	11,072	5,379	11,444
British India (total imports)	36,678	14,239	18,720	21,712	10,728	37,919	(b) 37,258
Ceylon	617	27	416	1,041	612	884	951
Cyprus	—	100	51	152	501	423	799
Hong Kong (total imports)	(a)	(a)	(a)	(a)	(a)	829	1,291
Malaya (total imports) ..	(a)	(a)	(a)	(a)	(a)	235	257
Palestine	892	277	1,921	4,407	2,083	1,167	(a)
Australia	60,066	30,177	17,965	38,182	67,074	72,939	82,104
New Zealand	58,017	24,758	22,386	65,800	51,872	43,632	79,006
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.	11,436	10,681	7,966	1,951	(a)	(a)	(a)
Bulgaria	469	1,580	17	17	(a)	(a)	(a)
Czechoslovakia—							
Crude and ground ..	(a)	(a)	(a)	(a)	(a)	12,731	7,004
Flowers of sulphur ..	(a)	(a)	(a)	(a)	(a)	10	188
Denmark	623	404	976	998	88	1,014	(a)
Finland (total imports) ..	10,967	6,733	10,062	7,554	2,992	20,635	16,111
France—							
Rock	—	—	—	(a)	—	31,995	38,472
Crude	9,691	25,181	15,399	6,188	123,549	155,617	136,823
Refined lump	90	—	493	877	2,441	445	398
Flowers of Sulphur ..	—	—	—	—	89	1	85
Precipitated	19	226	212	118	8	—	4
Germany—							
Sulphur, etc.	145,794	99,731	71,223	(d) 43,195	(a)	(a)	(a)
Greece	(a)	(a)	(a)	(a)	6,193	3,412	(a)
Iceland	—	—	—	—	1	1	(a)
Netherlands	1,441	894	318	(a)	(a)	1,665	(a)
Norway	125	74	104	82	47	60	43
Portugal—							
Crude	—	—	1	2,500	4,871	1	300
Flowers of sulphur ..	2	1	—	6	12	32	153
Other sulphur	1	1	1	—	—	4	15
Spain—							
Crude	598	868	—	—	9,801	5,021	20,692
Flowers of sulphur ..	4	1	2	—	—	57	44
Sweden	27,957	31,073	28,987	8,551	9,414	49,654	54,458

(a) Information not available.

(b) January to November only.

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

(d) January to July only.

(e) Total imports.

(f) January to June only.

IMPORTS OF SULPHUR (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Switzerland—							
Crude and ground ..	10,670	3,209	7,015	1,010	15,033	18,280	23,780
Flowers of sulphur ..	729	498	88	—	4	259	190
Algeria—							
Rock	—	10	—	—	28	98	—
Crude	10,593	8,905	—	279	19,509	24,793	14,584
Refined	734	943	3,358	120	1,902	8,932	3,208
Flowers of sulphur ..	5,463	4,254	75	—	—	7	5,212
Precipitated	361	797	—	—	6	1,433	1,625
Angola	38	69	41	20	(a)	(a)	(a)
Belgian Congo	(a)	(a)	147	—	3	(a)	(a)
Egypt	1,845	2,124	(b) 106	2,425	2,746	2,337	(a)
Madagascar	118	(a)	—	59	(a)	(a)	(a)
Morocco (French)—							
Crude	—	128	—	29	149	221	220
Refined	1,262	1,196	13	603	242	1,871	1,082
Morocco (Spanish) ..	(a)	(a)	(a)	45	105	50	55
Mozambique	215	375	256	443	639	344	(a)
Tunis—							
Crude	14,225	10,321	494	8,563	6,574	15,151	3,173
Refined and flowers of sulphur	1,485	766	—	8	—	560	209
Costa Rica	(a)	10	26	61	44	6	(a)
Cuba (total imports) ..	59	100	74	611	1,301	(a)	(a)
Mexico	6,016	5,964	3,760	3,923	4,071	3,229	(a)
United States	28,631	25,632	16,658	32	33	35	15
Argentina—							
Crude	21,466	26,641	35,965	26,482	30,114	23,561	(a)
Refined and flowers of sulphur	23	98	506	14	444	232	(a)
Brazil (total imports) ..	17,015	23,585	31,935	41,478	19,070	26,868	41,944
Chile	4	331	226	250	1	3	(a)
Colombia	513	502	804	489	(a)	1,277	(a)
Peru	63	51	122	249	341	472	(a)
Uruguay	(a)	(a)	6,294	3,325	(a)	(a)	(a)
China	(a)	(a)	(a)	(a)	(a)	2,530	3,112
Iran (c)	2,254	1,337	4,714	(a)	(a)	(a)	(a)
Netherlands East Indies ..	(d) 3,486	(a)	(a)	(a)	(a)	(a)	(a)
Syria and Lebanon	94	257	88	299	546	473	(a)
Turkey—							
Refined and flowers of sulphur	(a)	(a)	(a)	359	994	3,741	(a)

(a) Information not available.

(b) Excess of re-exports

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

(d) January to October only.

TALC
PRODUCTION OF TALC
(Long tons)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Great Britain	4,480	2,196	2,771	2,784	2,136	3,383	3,326
Kenya (b)	(a)	(a)	(a)	(a)	66	(a)	20
Union of South Africa	2,420	1,954	5,260	2,830	1,916	3,622	2,657
Canada (shipments)	30,921	26,668	23,360	29,104	24,186	26,208	22,251
Newfoundland (f)	500	1,555	2,400	220	700	650	(a)
India	26,151	31,752	15,869	21,392	22,511	93,596	(a)
Australia	4,059	2,834	3,355	4,134	3,142	5,745	5,835
New Zealand	(a)	15	62	25	—	—	—
FOREIGN COUNTRIES							
Austria	(a)	(a)	(a)	44,036	(a)	16,322	20,915
France	(a)	49,358	47,540	26,300	40,008	62,349	72,910
Germany (Bavaria)	12,765	13,313	(a)	(a)	(a)	(a)	(a)
Greece	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Italy	72,315	79,191	(a)	(a)	16,030	(a)	(d) 22,974
Norway	34,202	34,951	35,405	(g) 21,218	(g) 15,227	31,806	(a)
Roumania	3,294	3,004	1,584	(a)	(a)	(a)	(a)
Spain (c)	18,649	24,471	9,590	7,252	15,330	19,227	20,505
Sweden	5,150	6,056	5,251	5,425	9,212	13,788	10,541
Egypt	5,146	1,845	2,022	4,197	3,807	4,684	4,557
Madagascar	—	1	38	1	—	—	—
United States (e)	370,129	360,537	389,508	373,418	370,045	411,209	461,119
Argentina	1,944	4,695	3,501	3,367	2,639	(a)	(a)
Brazil	(a)	2,040	(a)	(a)	(a)	(a)	(a)
Chile	226	250	272	920	469	(a)	(a)
Uruguay	2,077	(d) 3,562	1,575	2,221	(a)	1,789	2,633
French Indo-China	365	256	354	520	—	—	—
Japan (f)	402,541	365,021	326,343	301,720	196,499	109,800	160,552
Korea (f)	(a)	(a)	(g) 34,811	40,500	(g) 11,960	(a)	(a)

Talc is also produced in U.S.S.R., China and Manchuria.

(a) Information not available.

(b) In addition the following amounts of Kisii stone were produced (long tons): 1943—62; 1944—121 (including talc); 1945—133; 1946—482; 1947—272.

(c) In addition the following amounts were produced in quarries:—

	Cubic metres			
1941	—
1942	2,764
1943	—
1944	(a)

(d) Exports.

(e) Including pyrophyllite as follows:—1942—47,542 tons; 1943—57,320 tons; 1944—60,046 tons; 1945—69,389 tons; 1946—87,290 tons; 1947—96,830.

(f) Pyrophyllite.

(g) Incomplete.

EXPORTS OF TALC

*(Domestic Produce)**(Long tons)*

Exporting Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom	110	99	49	24	62	—	(a)
Canada	17,331	14,335	10,147	10,643	6,574	5,716	5,185
Newfoundland (b)	(d) 229	(e) 693	1,151	354	80	261	206
British India	8,504	6,211	2,702	2,868	7,463	5,354	(f) 3,623
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.	53	23	—	—	(a)	(a)	(a)
Czechoslovakia	(a)	(a)	(a)	(a)	(a)	148	165
France	12,589	16,087	6,808	4,103	11,467	24,628	26,633
Germany	7,557	10,128	11,285	(c) 4,175	(a)	(a)	(a)
Italy	22,105	19,149	(a)	(a)	(a)	(a)	22,974
Norway	19,759	25,715	23,904	18,143	16,435	24,845	35,310
Egypt	3,126	11,250	1,449	1,617	680	(a)	(a)
United States	9,722	8,255	9,543	9,562	10,102	14,619	6,677
Chile	101	1	5	8	—	—	(a)
Uruguay	1,833	3,562	1,611	1,832	(a)	(a)	(a)

(a) Information not available.

(b) Years ended March 31 following that stated.

(c) January to July only.

(d) Year ended June 30 following that stated.

(e) Nine months ended March 31, 1943.

(f) January to November only.

IMPORTS OF TALC

*(Less Re-exports)**(Long tons)*

Importing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom	18,920	13,164	10,294	8,267	8,376	12,777	23,170
Canada	4,290	4,858	5,759	5,441	5,704	6,015	7,565
British India	—	—	—	—	—	—	1
Cyprus	(a)	(a)	(a)	—	—	(£401)	8
Australia	836	701	295	261	287	733	172
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.	4,935	5,794	2,056	363	(a)	(a)	(a)
Czechoslovakia	(a)	(a)	(a)	(a)	(a)	1,360	595
Denmark	2,235	2,759	3,238	2,553	3,545	5,064	(a)
Finland (total imports) ..	680	996	1,431	409	630	1,283	2,961
France	15	48	79	32	6	110	827
Germany	22,845	30,154	31,178	(c) 17,931	(a)	(a)	(a)
Portugal	(a)	377	255	166	44	733	349
Algeria	1,161	1,047	15	—	—	—	—
Belgian Congo	(a)	(a)	1	—	3	(a)	(a)
Egypt	—	(d) 11	—	(d) 189	(b) 26	(b) 19	(a)
Morocco (French)	335	495	713	1,584	213	45	10
Morocco (Spanish)	(a)	(a)	(a)	18	11	6	40
Tunis	747	1,463	13	26	113	315	434
Mexico	359	516	464	613	708	1,429	(a)
United States	16,655	7,838	5,851	7,506	5,902	(b) 16,472	15,724
Argentina	3,388	4,267	1,723	273	45	175	(a)
Brazil	240	45	8	71	189	79	(a)
Chile	51	31	57	17	38	52	(a)
Colombia	279	94	340	188	(a)	189	(a)
Peru	92	69	122	195	80	24	(a)
Venezuela	103	38	116	—	(a)	(a)	(a)
Japan (total imports) ..	(a)	(a)	(a)	(a)	(a)	(a)	742
Syria and Lebanon	—	93	63	63	10	71	(a)

(a) Information not available.

(b) Total imports.

(c) January to July only.

(d) Excess of re-exports.

(e) January to November only.

TANTALITE AND COLUMBITE
PRODUCTION OF TANTALITE AND COLUMBITE
(Lb. avoirdupois)

Producing Country	1941	1942	1943	1944	1945	1946	1947			
BRITISH COUNTRIES										
Nigeria—										
Tantalite	—	—	4,500	27,082	29,792	2,890	8,310			
Columbite	945,000	1,937,600	1,796,000	4,603,536	3,518,480	3,472,000	2,880,640			
Southern Rhodesia—										
Tantalite	36,000	28,000	14,000	12,000	14,740	16,900	27,300			
South West Africa—										
Tantalite concentrates ..	228	40	2	—	—	—	500			
Tin-tantalite	370	161	560	2,000	—	—	—			
Uganda—										
Tantalite	}	}	(b)(c)15,700	{ (c) 2,800	} 17,920	{ —	} (d) 3,584			
Columbite								(c)12,320	(c) 670	} 2,209
Bismutotantalite										
Union of South Africa—										
Tantalite and columbite	—	—	2,440	6,312	776	—	—			
Australia—										
Tantalite concentrates ..	—	1,900	27,400	24,200	1,050	806	112			
FOREIGN COUNTRIES										
Belgian Congo—										
Tantalite and columbite concentrates	458,600	280,000	332,800	648,200	436,500	370,400	346,100			
French Equatorial Africa—										
Tantalite and columbite	—	—	—	—	4,400	2,200	2,200			
Mozambique—										
Colombite	17,600	11,000	11,000	11,000	4,400	440	(a)			
United States—										
Tantalite	250	200	9,411	7,204	5,500	3,475	2,908			
Columbite	—	—	5,771	3,208	1,149	—	—			
Argentina—										
Tantalite and columbite	4,400	6,600	1,800	200	1,000	(a)	(a)			
Bolivia (exports)—										
Columbite	—	—	—	—	—	6,870	—			
Brazil (exports)—										
Tantalite	199,915	250,178	398,631	443,129	66,139	98,035	(a)			
Columbite	7,981	1,074	—	116,871	(a)	15,432	(a)			

(a) Information not available.

(b) Tin-tantalite-columbite.

(c) Exports.

(d) In addition Tin-columbite produced amounted to 329 lbs.

EXPORTS OF TANTALITE AND COLUMBITE
(Domestic Produce)
(Lb. avoirdupois)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom— Tantalum	—	—	—	—	—	5	1
Nigeria— Tantalite Columbite	— — 1,416,000	— — 2,150,000	4,480 1,861,000	29,030 3,510,000	31,741 4,424,000	15,165 3,221,100	7,504 2,889,600
South West Africa— Tantalite Tin-tantalite concentrates	— — —	— — —	1,210 2,200	— 2,200	(a) (a)	(a) (a)	(a) (a)
Southern Rhodesia— Tantalite	16	8	12	5	5	7	7
Uganda— Tantalite Columbite Bismutotantalite	— — — —	— — — —	(d) 15,700	{ 2,800 12,320 6,720	{ 3,360 9,520 670	7,840	3,584
Australia (c)— Tantalite	— —	29,568	—	3,472	26,320	1,008	9,632
FOREIGN COUNTRIES							
Belgian Congo— Tantalite and columbite	(b) 146,904	(b) 346,265	179,070	375,884	490,092	(b) 263,097	(b) 314,260
United States— Columbite	— —	— —	— —	— —	5,000	(a)	10,511
Bolivia— Columbite	— —	— —	— —	— —	— —	6,870	—
Brazil— Tantalite Columbite	199,915 7,981	250,178 1,074	398,631 —	443,129 116,871	66,139 (a)	98,035 15,432	(a) (a)

(a) Information not available.

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

(c) Years ended June 30 of year stated.

(d) Tin-tantalite-columbite.

IMPORTS OF TANTALITE AND COLUMBITE
(Less Re-exports)
(Lb. avoirdupois)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom— Tantalite and columbite Tantalum powder, sheet, etc.	(a) 103	(a) 161	(a) 235	(a) 15	(a) 226	(a) 265	654,080 170
FOREIGN COUNTRIES							
United States— Tantalite Columbite	403,464 1,440,455	567,494 1,762,355	643,080 2,382,050	837,130 3,684,530	630,092 4,227,152	363,553 2,426,246	418,753 2,821,634

(a) Information not available.

TIN
PRODUCTION OF TIN ORE

(In terms of metal)

(Long tons)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Great Britain	1,508	1,364	1,359	1,289	993	849	820
Nigeria	12,063	12,403	12,661	12,512	11,224	10,333	9,133
Northern Rhodesia	10	2	3	6	18	6	1
Southern Rhodesia	231	162	178	123	125	100	122
South West Africa	117	116	146	126	184	177	146
Swaziland	131	113	110	77	53	37	24
Tanganyika Territory	(c) 241	(c) 191	(c) 157	144	137	127	(c) 93
Uganda	(c) 306	(c) 283	(c) 296	(c) 281	203	202	156
Union of South Africa	516	510	519	504	501	487	539
Canada (smelter)	29	553	347	231	379	390	319
Burma	(b) 5,000	(d) 775	(d) 775	(d) 775	(d) 775	243	1,818
Malaya	(b) 78,000	15,748	26,000	9,309	3,152	8,432	27,026
Australia	3,494	2,931	2,635	2,547	2,282	2,127	2,445
TOTAL	102,000	35,200	45,200	27,900	20,000	23,500	42,642
FOREIGN COUNTRIES							
Germany (b)	300	500	1,000	1,000	—	—	100
Italy	230	197	160	43	35	100	50
Portugal	2,112	3,949	3,082	610	581	409	555
Spain	160	272	340	750	1,141	921	303
Belgian Congo	15,700	15,800	17,025	16,858	17,050	14,239	12,407
Cameroon (French)	233	247	228	160	116	113	120
Egypt	2	14	14	9	13	25	—
Morocco (French)	26	4	11	9	8	9	—
Mozambique	4	10	6	8	3	2	1
Mexico	212	364	425	317	174	263	171
United States	56	6	6	5	—	—	—
Argentina	1,095	714	793	986	(b) 1,000	(b) 1,000	(b) 500
Bolivia (exports)	42,065	38,285	40,312	38,720	42,487	37,618	32,663
Peru	47	22	82	—	1	2	51
China (smelter)	6,862	7,700	3,708	2,160	3,268	1,930	1,454
French Indo-China	1,295	1,030	653	357	86	—	—
Japan	2,177	1,900	1,107	374	(b) 1,770	(b) 1,800	(b) 600
Netherlands East Indies	(b) 51,000	9,938	17,632	6,753	948	6,426	15,915
Siam	15,828	7,833	5,840	3,296	1,775	1,056	1,401
Total	139,000	88,800	92,400	72,400	70,500	65,900	66,200
WORLD'S TOTAL	241,000	124,000	137,600	100,300	90,500	89,400	108,900

NOTE.—In the case of countries for which assay figures are not published the metal content of the ores has been estimated on the following percentages—South West Africa 70, Belgian Congo 72, Japan 70, Siam 72.

(a) Information not available.

(b) Estimated.

(c) Exports.

(d) Average annual production during Japanese occupation.

SMELTER PRODUCTION OF TIN
(Long tons)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom	41,298	37,279	31,573	28,589	27,549	29,121	28,083
Union of South Africa ..	137	534	862	1,150	1,032	858	601
Canada	29	553	347	231	379	390	319
Malaya	119,381	12,912	30,462	10,983	(c) 3,500	11,533	29,318
Australia	3,656	3,024	2,565	2,442	2,359	2,225	2,371
TOTAL	164,500	54,300	65,800	43,400	34,800	44,127	60,692
FOREIGN COUNTRIES							
Belgium	—	—	—	—	—	1,405	12,059
Italy	212	182	82	2	6	10	46
Netherlands	—	—	—	—	—	945	8,981
Portugal	2,135	2,081	2,098	610	(c) 600	(c) 240	373
Spain	86	99	121	515	1,111	1,440	32
Belgian Congo	11,818	13,933	11,790	10,583	8,530	3,533	3,076
Mexico	149	319	395	286	160	263	172
United States	1,839	16,168	21,489	30,884	40,475	43,468	33,292
Argentina	768	709	552	640	462	(c) 500	(c) 480
China	6,862	7,700	3,708	2,160	3,268	1,930	1,454
French Indo-China ..	69	337	389	213	14	—	—
Japan	4,015	3,569	1,759	528	120	106	52
Netherlands East Indies ..	(b) 17,752	(c) 8,000	(c) 12,000	(c) 3,000	—	—	—
TOTAL	45,700	53,100	54,400	49,400	54,700	53,800	60,000
WORLD'S TOTAL ..	210,200	107,400	120,200	92,800	89,500	98,000	120,700

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

Long tons			Long tons		
1941	37,529		1945	31,369	
1942	33,900		1946	24,706	
1943	33,800		1947	26,834	
1944	29,100				

(a) Information not available.

(b) Exports for January to October only.

(c) Estimated.

EXPORTS OF TIN

(Domestic Produce)

(Long tons)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Blocks, ingots, bars and slabs	6,562	10,164	12,251	3,147	9,803	20,600	3,909
Soft solder	1,856	1,503	257	470	1,122	1,840	831
Tin-foil	445	297	106	189	116	365	395
Nigeria—							
Ore	18,401	16,557	17,449	18,178	15,166	13,929	14,090
Southern Rhodesia—							
Ore and concentrates ..	201	34	8	—	22	38	28
Blocks, ingots and bars	82	58	39	11	65	23	12
South West Africa—							
Ore	170	111	222	186	229	262	135
Tanganyika Territory—							
Ore and concentrates ..	335	265	218	170	187	181	129
Kenya and Uganda—							
Ore	426	397	411	388	287	296	189
Union of South Africa—							
Ore and concentrates ..	867	179	—	—	—	—	(a)
Bars, sheet, etc. ..	4	1	35	90	31	148	(a)
British India—							
Blocks, ingots, bars, slabs and scrap	1,129	30	1	2	104	—	—
Burma—							
Ore and concentrates (c) } (a)	(a)	(a)	(a)	(a)	(a)	{ (b) 96	(a)
Blocks, ingots, etc. .. } (b)						{ (b) 1	(a)
Hong Kong (d)—							
Slab and ingot	(a)	(a)	(a)	(a)	(a)	2,006	2,588
Malaya—							
Ore	—	—	—	—	—	—	—
Ingots, blocks, bars, slabs (e) } 108,896	(a)	(a)	(a)	(a)	(a)	{ 344	32,072
Ingots, blocks, bars, slabs						{ 7,619	
Australia—							
Ore and concentrates (Sn content) (f)	36	23	1	2	1	(g) 284	(g) 3
Ingots	514	27	278	313	468	17	1
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Ore	—	—	—	—	—	—	—
Crude	44	15	2	1	40	(a)	12,562
Scrap	—	—	—	—	—	—	—
Sheets, wire, etc. ..	1	—	—	—	—	—	—
Denmark—							
Crude and scrap	28	16	31	1	1	8	(a)
France—							
Ore	—	—	—	—	—	—	2
Pigs, bars, etc.	65	520	174	35	22	129	73
do. (alloys)	44	68	601	—	3	21	126
Scrap	7	1	245	34	—	—	1
Sheets and wire	15	4	—	—	1	10	66

(a) Information not available.

(b) February to September only.

(c) Excluding tin-tungsten ore.

(d) Including re-exports.

(e) January to September only.

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

(g) Calendar years. Includes "dross and ashes."

EXPORTS OF TIN (Cont.)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Germany—							
Crude, scrap and alloys	677	1,692	1,259	(b) 184	} (a)	(a)	(a)
Sheets and wire	1	6	33	(b) —			
Tin-foil	7	5	2	(b) 3			
Italy—							
Ingots, bars, scrap, sheets, alloys, etc.	10	10	69	(a)	—	—	—
Netherlands—							
Ore	—	—	—	(a)	(a)	—	—
Blocks	308	22	4	(a)	(a)	267	4,771
Sheets, wire, etc. ..	1	9	—	(a)	(a)	2	25
Norway—							
Ingots and bars	18	1	69	—	25	93	(a)
Portugal—							
Ore	383	10	170	(a)	—	181	317
Bars	1,133	1,909	2,225	757	649	244	248
Sweden—							
Crude and scrap	495	188	18	—	—	10	—
Switzerland—							
Pigs, bars, slabs, sheets, alloys, etc.	—	—	—	—	—	6	9
Tin-foil	—	1	—	—	—	—	18
Scrap	—	—	—	—	—	—	19
Algeria—							
Ingots, scrap and alloys	12	2	20	41	5	974	2
Belgian Congo—							
Ore	2,419	131	5,952	9,179	11,483	17,629	19,623
Ingots	8,049	11,808	10,670	9,589	6,861	4,383	4,311
Cameroon (French)—							
Ore	319	338	281	232	187	85	212
Morocco (French)—							
Ore	—	13	—	—	—	—	20
Mozambique—							
Ore	2	4	3	14	4	(a)	(a)
Mexico—							
Ores and concentrates	220	192	565	200	38	(a)	28
Sn content	108	89	107	80	11	71	(a)
United States—							
Ingots, pigs, etc. ..	(a)	244	398	405	708	859	414
Scrap	(a)	960	1,798	3,157	3,453	(a)	6,678
Tubes, sheets, foil ..	(a)	88	46	22	103	(a)	93
Argentina—							
Ore	826	118	198	147	637	79	} (a)
Slag and ashes	514	583	—	—	489	2,016	
Ingots and bars	18	—	—	—	—	—	
Bolivia—							
Ores, concentrates, etc. (Sn content)	42,065	38,285	40,312	38,720	42,487	37,618	32,663
Peru—							
Slag (Sn content)	45	22	2	—	—	2	50
China—							
Ingots and slabs	7,447	1,062	—	136	1,560	1,535	4,050
French Indo-China—							
Ore	} 2,165	682	985	(a)	(a)	406	133
Ingots and scrap							
Netherlands East Indies—							
Ore	(c) 34,189	} (a)	(a)	(a)	(a)	(a)	(a)
Ingots	(c) 17,752						
Siam—							
Ore (Sn content)	15,247	2,272	1,130	98	69	—	5,277

(a) Information not available.

(b) January to July only.

(c) January to October only.

IMPORTS OF TIN

(Less Re-exports)

(Long tons)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Ore and concentrates ..	65,516	43,870	52,017	32,948	44,861	47,152	39,313
Blocks, ingots, bars and slabs	(c) 36	—	323	—	57	634	230
Soft solder	—	—	—	—	—	21	3
Eire—							
Ingots, bars, slabs, etc.	42	8	13	10	15	31	40
Soft solder	114	49	83	67	95	60	144
Tin-foil	35	6	—	—	2	90	54
Kenya and Uganda—							
Ore	(c) 323	(c) 257	(c) 231	(c) 161	(c) 171	(c) 262	(c) 134
Bars, plates and sheets ..	101	72	24	51	36	55	6
Mauritius—							
Slabs, plates, sheets, etc.	111	77	22	143	220	408	177
Southern Rhodesia (b)—							
Blocks, ingots and bars	10	5	—	—	—	—	—
South West Africa—							
Bars, sheets, etc. ..	—	1	—	—	—	—	—
Union of South Africa—							
Ore	—	14	222	186	—	—	(a)
Blocks, ingots, bars, plates and sheets	664	377	37	—	6	93	(a)
Tin-foil	109	63	7	17	23	26	(a)
Canada—							
Blocks, pigs and bars ..	7,785	3,217	1,175	1,197	3,212	3,751	3,961
Tin-foil	1,009	151	370	726	61	3	4
Newfoundland (d)—							
Bars, sheets, ingots, etc.	(a)	(a)	(a)	112	219	254	402
Aden—							
Blocks, ingots, etc. ..	4	1	—	—	2	—	—
British India—							
Blocks, ingots, bars and slabs	4,567	532	(c) 233	(c) 5,383	(c) 278	(c) 17	(f) 564
Burma—							
Blocks, ingots, etc. ..	(a)	(a)	(a)	(a)	(a)	(e) 10	(a)
Ceylon—							
Ingots, slabs, etc. ..	49	35	6	44	56	—	50
Plates and sheets ..	111	445	—	18	—	620	26
Tin solder	19	16	14	22	81	10	17
Cyprus—							
Ingots and bars	13	4	—	8	11	10	9
Hong Kong (total imports)—							
Slabs and ingots ..	(a)	(a)	(a)	(a)	(a)	2,069	2,567
Malaya (b)—							
Ore	} (a)	(a)	(a)	(a)	(a)	{ 654	4,559
Ingots, blocks, bars, slabs								106	180
Palestine—							
Ingots and bars	81	158	4	49	70	103	(a)
Tin-foil	1	99	—	—	1	11	(a)
Australia—							
Ingots	300	—	—	—	—	—	300
New Zealand—							
Ingots, etc.	585	20	425	431	621	74	266

(a) Information not available.

(b) Total imports.

(c) Excess of re-exports.

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

(e) February to September only.

(f) January to November only.

IMPORTS OF TIN (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Ore	—	—	—	—	(a)	(a)	15,669
Crude	} 8	5	44	18	} 2,287	(a)	(a)
Scrap							
Sheets, wire, etc. ..							
Bulgaria—							
Crude, bars, sheets, scrap, etc.	15	71	92	62	(a)	(a)	(a)
Czechoslovakia—							
Crude, scrap and alloys	(a)	(a)	(a)	(a)	(a)	138	1,247
Denmark—							
Crude and scrap ..	124	82	85	57	228	659	662
Sheets, wire, etc. ..	1	4	4	2	—	12	7
Tin-foil	—	1	—	—	—	23	22
Finland (total imports)—							
Ingots, bars and scrap ..	48	117	69	41	17	353	375
Tin solder	6	6	26	12	—	24	32
France—							
Ore	41	—	—	(a)	—	—	327
Pigs, bars, etc.	985	144	208	1	3,193	6,910	9,300
do. (alloyed with antimony)	3	1	1	—	1	51	35
Scrap	6	1	—	2	—	116	209
Sheets and wire ..	—	2	4	1	6	1	3
Germany—							
Ore	47	494	259	(b) —	} (a)	(a)	(a)
Crude, scrap and alloys	3,879	6,022	3,281	(b) 2,145			
Sheets and wire ..	—	—	—	(b) —			
Tin-foil	6	11	1	(b) —			
Greece	(a)	(a)	(a)	(a)	—	104	(a)
Italy—							
Ingots, bars, scrap and alloys	1,378	1,752	1,850	(a)	—	581	2,726
Sheets, tubes, wire and alloys	—	—	—	(a)	—	—	20
Netherlands—							
Ore	—	—	—	(a)	(a)	1,325	15,852
Blocks	4	17	138	(a)	(a)	777	859
Sheets, wire, etc. ..	—	—	—	(a)	(a)	2	—
Norway—							
Crude	64	17	1	—	82	549	253
Bars, sheets, filings, etc.	—	1	9	3	214	105	(a)
Portugal—							
Sheets, wire, etc. ..	3	1	2	—	6	1	1
Spain—							
Ingots and bars	705	50	120	1,264	90	278	1
Sweden—							
Crude	20	1	68	51	364	666	1,512
Switzerland—							
Pigs, bars and slabs ..	306	242	117	61	59	920	851
Sheets, wire, foil, etc. ..	—	1	—	—	—	6	3
U.S.S.R.—							
Blocks, ingots, etc. (c) ..	—	9,193	11,990	1,200	—	1,474	(a)
Algeria—							
Crude, sheets and alloys, etc.	75	50	123	496	101	188	305
Egypt—							
Crude and scrap ..	509	681	93	358	358	678	(a)

(a) Information not available.

(b) January to July only.

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

IMPORTS OF TIN (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Madagascar—							
Bars, sheets, etc. ..	15	(a)	3	(a)	(a)	(a)	(a)
Morocco (French)—							
Ingots, etc.	18	24	103	77	19	100	160
Mozambique—							
Bars, sheets, etc. ..	7	5	2	3	7	3	(a)
Tunis—							
Pigs, bars and sheets ..	19	20	46	3	59	106	104
Cuba (total imports)—							
Ingots	127	25	47	48	70	(a)	(a)
Bars, sheets, etc. ..	199	62	55	45	129	(a)	(a)
Mexico—							
Ingots	64	12	—	—	7	91	(a)
United States—							
Ore (<i>Sn content</i>).. ..	28,670	28,933	19,515	35,548	33,479	38,070	30,510
Blocks, pigs, bars, scrap, etc.	140,873	26,588	10,547	12,900	8,320	15,520	24,943
Argentina—							
Ingots and sheets ..	1,027	377	20	6	2	395	876
Brazil (total imports)—							
Ingots and bars	1,589	654	268	358	375	842	860
Colombia—							
Ingots, bars, sheets, etc.	57	6	41	(a)	25	(a)	(a)
Chile—							
Ore	1	18	—	50	98	50	(a)
Ingots	345	279	49	81	88	163	(a)
Bars and sheets	—	—	1	—	—	—	(a)
Peru—							
Bars, sheets, etc. ..	48	2	7	24	44	33	(a)
Uruguay—							
Ingots	(a)	(a)	55	76	(a)	(a)	(a)
Venezuela—							
Crude	50	22	23	(a)	(a)	(a)	(a)
China—							
Ingots and slabs. . .	} (a)	(a)	(a)	(a)	(a)	860	26
Tin and lead foils ..							
Iran (total imports) (b)—							
Ingots, sheets and wire	269	706	25	(a)	(a)	(a)	(a)
Iraq—							
Crude, etc.	39	6	24	4	(a)	(a)	(a)
Sheets, wire, etc. ..	—	404	6	1	(a)	(a)	(a)
Japan—							
Ingots and slabs. . .	5,393	3,753	22,098	9,235	4,255	(a)	(a)
Syria and Lebanon—							
Ingots and sheets ..	17	4	6	13	42	106	(a)
Turkey—							
Ingots, scrap, etc. ..	(a)	(a)	(a)	402	885	199	350

(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	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Southern Rhodesia—							
Titanium ore	—	—	—	7	—	—	—
Canada (shipments)—							
Titanium ore	11,296	8,956	61,997	30,333	12,631	1,255	6,343
India—							
Ilmenite	129,040	49,188	37,440	100,794	172,086	185,023	(a)
Rutile	1,861	2,259	2,358	1,646	610	258	(a)
Malaya (exports)—							
Ilmenite ("Amang") ..	(e) 44	(a)	(a)	(a)	(a)	—	13,081
Australia—							
Ilmenite concentrates ..	298	565	2,744	3,902	3,609	4,580	(a)
Estimated content of all ilmenite-bearing con- centrates (b)	3,719	4,515	5,384	7,172	6,566	4,986	6,383
Rutile concentrates ..	—	—	319	2,027	3,960	4,837	(a)
Estimated content of all rutile-bearing con- centrates (c)	3,756	5,416	6,624	8,703	9,744	7,192	13,194
FOREIGN COUNTRIES							
Norway—							
Ilmenite	60,121	59,754	65,146	62,965	27,865	51,744	68,610
Rutile (d)	165	76	114	84	75	62	50
Portugal—							
Ilmenite	1,255	—	—	—	573	380	239
Tin-titanium ore ..	—	1,768	1,174	99	43	11	4
Spain—							
Ilmenite	70	84	175	540	213	126	147
Cameroon (French)—							
Rutile	1,770	2,360	2,692	3,270	1,417	1,240	744
Egypt—							
Ilmenite	1	654	—	9	45	144	—
French West Africa—							
Ilmenite	983	4,557	653	—	3,149	4,240	11,104
United States—							
Ilmenite	20,801	68,936	181,742	248,759	275,461	252,185	300,476
Rutile	2,795	2,364	3,560	6,180	6,410	6,654	7,645
Brazil (exports)—							
Ilmenite	4,400	—	—	2,461	4,921	(a)	(a)
Rutile	2,332	4,542	4,485	1,539	157	28	(a)

(a) Information not available.

(b) Includes Ilmenite concentrates shown above.

(c) Includes Rutile concentrates shown above.

(d) Ore and concentrates.

(e) January to September only.

EXPORTS OF TITANIUM MINERALS, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Ferro-titanium	(a)	(a)	(a)	(a)	(a)	193	310
Malaya—							
Ilmenite ("Amang") ..	(c) 44	(a)	(a)	(a)	(a)	—	(d) 13,081
India (f)—							
Ilmenite	150,978	30,487	20,582	72,613	176,679	202,260	(g) 234,377
Australia (e)—							
Rutile	(a)	(a)	(a)	(a)	(a)	3,288	7,455
Rutile-Ilmenite	(a)	(a)	(a)	(a)	(a)	(2 cwts.)	85
Zircon-Rutile	(a)	(a)	(a)	(a)	(a)	4,174	7,193
Zircon-Rutile-Ilmenite	(a)	(a)	(a)	(a)	(a)	4,520	4,026
FOREIGN COUNTRIES							
Czechoslovakia—							
Titanium white	(a)	(a)	(a)	(a)	(a)	636	596
France—							
Titanium oxide, etc. ..	12	24	—	—	24	167	223
Norway—							
Ilmenite	(b)	(b)	(b)	(b)	(b)	(b)	(a)
Rutile	89	69	104	83	75	50	(a)
Titanium white	368	358	631	564	957	930	(a)
Portugal—							
Ore	(a)	(a)	916	618	5	222	144
Cameroon (French)—							
Rutile	1,377	2,119	2,707	2,857	1,023	1,663	450
French West Africa (Senegal)—							
Ilmenite	413	2,515	—	—	658	5,147	12,764
Unites States—							
Ores and concentrates ..	(a)	552	514	260	544	1,237	1,130
Ferro-titanium, etc. ..	(a)	377	672	707	664	491	455
Titanium oxide and pig- ments	6,982	7,920	8,719	9,754	11,450	14,566	18,903
Titanium compounds ..	(a)	22	650	335	67	(a)	(a)
Brazil—							
Ilmenite	4,400	—	—	2,461	4,921	(a)	(a)
Rutile	2,332	4,542	4,485	1,539	157	28	(a)

(a) Information not available.

(b) Not recorded separately but exports of "Other ores" which were probably mainly ilmenite were as follows:—

	Long tons
1942	61,642
1943	63,157
1944	64,590
1945	24,726
1946	51,508
1947	(a)

(c) January to September only.

(d) Mines Department. Official trade returns give 10,281 long tons.

(e) Years ended June 30 of that stated.

(f) Complete official Indian exports are not available. Figures represent imports into the United Kingdom and the United States from India.

(g) Imports into the United States only from India.

IMPORTS OF TITANIUM MINERALS, ETC.*

(Less Re-exports)

(Long tons)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom— Titanium ores	14,117	34,542	15,561	21,012	26,532	37,830	71,240
FOREIGN COUNTRIES							
Czechoslovakia— Titanium white	(a)	(a)	(a)	(a)	(a)	—	20
France— Titanium oxide, etc. ..	585	789	843	299	142	316	496
Iceland— Titanium white	21	44	74	20	1	12	(a)
Italy— Ferro-titanium	10	5	—	(a)	—	—	1
Netherlands— Titanium oxide	776	286	305	(a)	(a)	91	424
Titanium white	145	173	104	(a)	(a)	206	603
Portugal— Ore	(a)	5	10	—	—	15	3
Mexico— Titanium oxide	99	205	56	95	183	294	(a)
United States— Ilmenite (b)	148,970	6,453	66,774	93,647	186,456	215,136	273,547
Rutile (b)	2,780	5,735	8,602	3,304	2,950	3,936	(d) 6,765
Titanium compounds ..	—	—	—	—	—	(a)	6
Brazil— Titanium oxide	67	89	123	56	182	103	(a)
Chile— Titanium oxide	26	26	44	27	147	128	(a)
Japan— Ilmenite	984	2,953	4,724	(a)	(a)	(a)	1,443

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

(a) Information not available.

(b) As recorded in the official trade returns. In addition the U.S. Bureau of Mines record the following amounts of Ilmenite and Rutile contained in "zirconium ores" imported from Australia (long tons):—

	Ilmenite	Rutile
1941	3,431	2,837
1942	2,839	3,662
1943	2,952	4,199
1944	3,629	5,643
1945	(c) 1,104	6,516
1946	1,239	1,300
1947	—	—

(c) Includes 276 long tons not recovered from mixed concentrates.

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

TUNGSTEN
(Long tons)

PRODUCTION OF TUNGSTEN ORE AND CONCENTRATES

Producing Country	Estimated WO ₃ Content													
	1941	1942	1943	1944	1945	1946	1947	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES														
Great Britain— Concentrates	128	171	207	356	110	89	66	75	118	140	207	71	64	53
Nigeria— Concentrates	22	90	68	28	5	5	3	14	59	44	18	3	3	2
South West Africa— Wolfram	101	90	132	85	—	—	3	71	63	92	60	—	—	2
Scheelite	—	4	15	14	5	—	5	—	3	10	10	4	—	4
Southern Rhodesia— Concentrates	240	458	733	689	261	48	24	156	298	606	416	170	31	15
Tanganyika Territory— Tungsten ore	1	2	3	—	—	—	—	1	1	2	—	—	—	—
Uganda— Wolfram	(a)	(f)	9	(f)	29	(f)	80	(a)	(a)	20	54	36	53	88
Union of South Africa— Concentrates	123	344	375	574	411	126	81	83	236	252	375	269	84	54
Canada (b)— Concentrates	37	233	673	396	(10 conf.)	—	298	19	144	365	126	(7 conf.)	—	221
Burma— Tungsten concentrates ..	(a)	(e)	743	(e)	743	(a)	(a)	(a)	475	475	475	475	(a)	(a)
Tin-wolfram concentrates	(a)	(e)	1,109	(e)	1,109	(a)	(a)	(a)	320	320	320	320	(a)	(a)
India— Concentrates	70	79	78	30	20	3	(a)	42	47	47	18	12	2	(a)
Malaya— Wolfram	34	35	70	99	15	9	33	(c)	24	50	70	10	6	23
Scheelite	(c)	16	52	83	10	—	11	(c)	9	36	58	7	—	8
Australia (g)— Wolfram (d)	723	573	625	587	521	321	388	470	372	406	402	335	206	248
Scheelite	315	252	228	115	609	693	664	205	164	148	77	397	452	433
New Zealand— Scheelite	67	67	110	136	34	27	22	46	46	75	94	22	18	14

(a) Information not available.

(b) Shipments (chiefly scheelite).

(c) January to September only.

(d) Average annual production during the Japanese occupation.

(e) Figures for 1941 to 1943 have been recalculated on a 65% WO₃ basis.

(f) Exports.

PRODUCTION OF TUNGSTEN ORE AND CONCENTRATES (Cont.)

Producing Country	Estimated WO ₃ Content													
	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950				
FOREIGN COUNTRIES														
France— Concentrates	98	79	103	71	171	223	353	56	44	59	39	109	169	266
Italy— Ore	6	35	11	12	13	15	19	1	3	1	1	3	4	5
Norway— Wolfram	8	6	—	5	(a)	—	—	5	4	—	3	3	—	—
Portugal (c)— Scheelite	96	11	4	82	—	1	17	48	6	2	41	—	1	11
Wolfram	5,964	4,049	5,582	3,058	—	260	2,640	3,876	2,632	3,404	1,529	—	169	1,699
Tin-tungsten ores	1,930	1,264	2,241	2,218	4	44	174	(a)	247	728	721	(a)	11	43
Spain— Concentrates	408	1,488	3,974	2,436	284	390	418	265	967	2,583	1,583	(a)	(a)	(a)
Sweden— Concentrates	298	373	380	468	563	691	506	170	198	216	250	308	364	238
Belgian Congo— Concentrates	103	266	240	365	427	384	174	67	173	156	237	(a)	(a)	(a)
Tin-tungsten ore	—	—	—	—	—	—	553	—	—	—	—	—	—	(a)
Egypt— Concentrates	39	18	41	15	—	—	—	27	12	24	10	—	—	—
Morocco (French)— Concentrates	1	1	—	2	—	—	—	1	1	—	1	—	—	—
Mexico	(a)	(a)	(a)	(a)	(a)	(a)	(a)	90	91	241	157	—	56	45
United States— Concentrates	6,023	8,422	10,763	9,161	5,055	4,382	2,839	3,614	5,053	6,458	5,496	3,033	2,629	1,703
Argentina— Concentrates (b)	1,539	1,893	2,147	1,856	954	(a)	(a)	1,030	1,250	1,412	1,225	(a)	(a)	(a)
Bolivia (exports)— Concentrates	4,284	5,517	6,823	7,810	3,498	2,351	2,909	2,572	3,310	4,076	4,686	2,275	1,252	1,556
Brazil (exports)— Concentrates	31	—	1,149	1,958	2,006	1,452	(a)	18	—	746	1,312	(a)	(a)	(a)
Chile— Concentrates	1	—	3	3	—	—	—	1	—	2	2	—	—	—
Peru— Concentrates	358	396	770	620	472	421	566	200	218	426	375	309	301	342

(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													
	1941	1942	1943	1944	1945	1946	1947	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)														
China—														
Concentrates	11,334	11,800	8,573	3,184	—	2,224	(a)	7,400	7,700	5,600	2,100	—	1,400	(a)
French Indo-China—														
Concentrates	389	197	98	75	7	—	—	121	126	63	49	5	—	—
Japan—														
Concentrates	667	927	791	650	(a)	(a)	(a)	378	525	448	368	(a)	(a)	(a)
Korea—														
Concentrates (b) ..	2,400	2,400	2,900	3,900	1,500	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Netherlands East Indies—														
Concentrates	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Siam—														
Concentrates	873	1,502	1,579	1,032	419	182	441	567	976	1,026	671	272	119	287

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

(a) Information not available.

(b) Estimated exports to Japan.

EXPORTS OF TUNGSTEN, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Tungsten ore	83	—	—	—	—	18	10
Ferro-tungsten	1,248	154	14	16	159	277	960
Tungsten powder, wire, etc.	24	6	—	1	(2 cwt.)	30	54
Kenya and Uganda—							
Tungsten ore	(a)	9	29	80	79	84	131
Nigeria—							
Tungsten ore	37	87	84	44	10	2	5
Southern Rhodesia—							
Tungsten ores	213	408	679	523	393	169	13
South West Africa—							
Tungsten ore	88	82	130	46	84	4	10
Tanganyika Territory—							
Tungsten ore	1	2	4	—	—	—	—
Union of South Africa—							
Tungsten ore	212	324	315	171	909	169	83
British India—							
Tungsten and tin-tung- sten ores	61	68	—	—	65	12	—
Burma—							
Tungsten ore and concen- trates (b)	(a)	(a)	(a)	(a)	(a)	(d) 15	(a)
Hong Kong (c)—							
Tungsten ore	(a)	(a)	(a)	(a)	(a)	656	992
Malaya (c)—							
Wolfram	} (a)	(a)	(a)	(a)	(a)	{ (a) 83	375
Scheelite .. ..								8
Australia—							
Wolfram	550	315	72	579	587	545	345
Scheelite (e)	96	9	20	4	44	11	1,218
New Zealand—							
Scheelite	65	69	105	119	75	21	16
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Tungsten ore	3	—	—	—	(a)	(a)	(a)
Finland—							
Ferro-tungsten	1	—	—	—	—	—	—
Norway—							
Tungsten ore	9	8	6	—	—	—	—
Portugal—							
Tungsten ore	5,152	4,726	6,564	2,646	—	1,974	3,005
Spain—							
Tungsten ore	154	156	1,374	2,462	1,636	52	1,431
Sweden—							
Ore	31	11	12	—	—	—	10
Ferro-tungsten	32	4	5	—	5	288	1,024
Mexico—							
Tungsten ore and concen- trates	210	168	1,409	337	157	56	175
WO ₃ content	90	91	210	157	63	45	(a)

(a) Information not available.

(b) Including tin-tungsten concentrates.

(c) Including re-exports.

(d) February to September only.

(e) Years ended June 30 of that stated.

EXPORTS OF TUNGSTEN, ETC. (Cont.)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
United States—							
Ore and concentrates ..	(a)	7	1	—	2	35	139
Ferro-tungsten	(a)	119	461	1,051	385	(a)	37
Tungsten metal, wire and alloys	87	140	105	140	116	62	109
Argentina—							
Tungsten ore	1,564	1,610	2,216	1,705	934	474	(a)
Bolivia—							
Tungsten ore	2,572	3,310	4,076	4,686	2,275	1,252	1,556
(WO ₃ content)							
Brazil—							
Tungsten ore	31	—	1,149	1,958	2,006	1,452	(a)
Peru—							
Tungsten ore and concentrates (WO ₃ content) ..	199	219	426	345	195	411	211
China—							
Tungsten ore	9,951	271	—	1,088	—	4,855	6,012
French Indo-China—							
Tungsten ore	160	64	94	(a)	(a)	165	(a)
Korea—							
Tungsten ore (b) ..	2,400	2,400	2,900	3,900	1,500	(a)	(a)
Siam (b)—							
Tungsten ore	1,000	1,200	800	400	(a)	(a)	(a)

(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	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Tungsten ores	12,487	7,526	6,637	6,199	3,067	2,085	7,072
Tungsten powder, wire, etc.	6	15	11	4	—	1	1
Canada—							
Tungsten ore	(a)	(c)	517	54	—	2	1
Ferro-tungsten	(a)	(c)	92	698	—	1	44
Hong Kong (d)—							
Tungsten ore	(a)	(a)	(a)	(a)	(a)	799	1,707
FOREIGN COUNTRIES							
Finland (d)—							
Tungsten ore	(a)	(a)	(a)	(a)	—	—	—
Germany—							
Tungsten ore	2,772	3,064	1,869	(b) 45	(a)	(a)	(a)
Italy—							
Ferro-tungsten	15	127	90	a)	—	93	73
Sweden—							
Tungsten ore	30	1	—	—	255	1,058	2,555
Ferro-tungsten	1	—	—	—	—	20	(a)
United States (d)—							
Tungsten ore	10,669	12,391	16,928	17,070	4,709	6,221	5,924
WO ₃ content	6,276	8,068	10,945	10,355	2,877	3,801	4,079
Tungsten metal (WO ₃ content).. ..	16	2	(a)	—	2	5	6
Japan—							
Tungsten ore	5,000	5,800	6,400	5,800	1,900	(a)	5

(a) Information not available.

(b) January to July only.

(c) From May 15, 1942.

(d) Total imports.

URANIUM MINERALS
PRODUCTION OF URANIUM MINERALS
(Cwt.)

Producing Country	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES							
Portugal (c)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Belgian Congo (exports)— Uranium minerals ..	(a)	(d) 4,692	163,124	176,549	196,189	(a)	(a)
United States— Carnotite ore (b) ..	16,214	(a)	(a)	(a)	(a)	(a)	(a)

Statistics of the production of Uranium are no longer published. In addition to the countries mentioned above uranium minerals are produced in Canada, Czechoslovakia, and the U.S.S.R.

(a) Information not available.

(b) The content of the ore was as follows :—Uranium—19,288 lb. ; Radium—2,916 mgrams. ; Vanadium—50,824 lb.

(c) The content of radium in salts was 1,920 mgrams. in 1941 ; 500 mgrams. in 1942 ; 975 mgrams. in 1943 ; 113 mgrams. in 1944.

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

EXPORTS OF URANIUM MINERALS, ETC.

(Domestic Produce)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom— Radium compounds Grains	1	1	1	5	(£814)	(£705)	5
Canada— Radium and salts £	(a)	(a)	(a)	459,723	270,289	(a)	(a)
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.— Uranium oxide .. Cwt.	209	138	—	—	(a)	(a)	(a)
France— Radium and radium products Lb.	—	900	—	—	64	44	—
Portugal— Radium ore .. Lb.	(a)	675	2,853	212	(a)	—	—
Uranium ore .. Cwt.	(a)	1,187	(a)	(a)	(a)	—	—
Belgian Congo— Uranium minerals Cwt.	(a)	(b) 4,692	163,124	176,549	196,189	(a)	(a)
United States— Uranium ore, etc. Grams.	(a)	543	(a)	—	(a)	(a)	(a)
do. (compounds) Lb.	(a)	426	321	221	(a)	(a)	(a)
Radium metals Mgms. do. (compounds	(a)	155	82	—	(a)	(a)	68
(Ra content) Grams.	(a)	1,245	3,571	4,752	(a)	(a)	(a)

(a) Information not available.

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

IMPORTS OF URANIUM MINERALS, ETC.

(Less Re-exports)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Uranium minerals Cwt.	16	8	6	3	—	—	—
Radium compounds Grains	223	440	286	387	138	127	520
Canada—							
Radium £	1,594	269	4,143	453	89	4,062	55,127
Newfoundland (c)—							
Radium salts and compounds Mgrms.	(a)	(a)	(a)	(a)	406	—	30
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Uranium oxide .. Cwt.	6	2	—	—	(a)	(a)	(a)
France—							
Uranium oxide .. Cwt.	—	—	—	—	10	10	4
Other uranium salts do.	—	—	2	—	—	—	—
Radium and radium products Lb.	38	359	7,518	—	—	496	86
Egypt—							
Radium £	—	—	—	—	—	284	(a)
United States—							
Uranium ore .. Cwt.	(a)	4,833	(a)	(a)	(a)	(a)	(a)
Uranium oxide and salts Cwt.	3,460	3,370	1,887	93	(a)	(a)	(a)
Radium salts £	27,300	93,600	(b) 339,000	(b) 341,200	246,149	81,005	373,403
Brazil—							
Radium and radium products Mgrams.	—	—	—	10	30	1,663	(a)
Chile—							
Uranium and compounds Lb.	7	46	4	—	22	7	(a)
Radium compounds Grams.	90,720	—	875	—	—	50	(a)
Peru—							
Radium salts .. Lb.	(a)	(a)	(a)	(a)	—	265	(a)
Turkey—							
Uranium salts .. Lb.	—	—	—	—	15	15	8

(a) Information not available.

(b) The quantity imported amounted to 90,755 mgrams. in 1943; 101,290 mgrams. in 1944, and 76,681 mgrams. in 1947.

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

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

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Northern Rhodesia ..	336	382	420	251	216	67	56
South West Africa ..	433	368	568	379	435	457	222
India (sales)	—	15	19	—	—	—	(a)
FOREIGN COUNTRIES							
Morocco (French) ..	4	1	4	5	—	—	—
Argentina	6	—	—	—	(a)	(a)	(a)
United States	1,122	1,982	2,494	1,575	1,323	568	946
Peru	976	1,000	867	510	661	317	428

(a) Information not available.

EXPORTS OF VANADIUM
(Domestic Produce)
 (Long tons)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom— Ferro-vanadium ..	(a)	(a)	(a)	(a)	(a)	(a)	57
Northern Rhodesia— Oxide, fused	659	732	853	250	597	22	146
South West Africa— Concentrates	2,613	3,606	3,143	624	1,331	900	2,906
FOREIGN COUNTRIES							
France— Oxide	6	—	—	—	—	—	—
Mexico (<i>V content of Ore</i>)	1	—	—	—	—	—	—
United States— Ore and concentrates (<i>V content</i>)	(a)	10 12 230 27 9	17 1 198 — 7	3 — 532 15 3	51 (a) (a) (a) (a)	3 (a) (a) (a) (a)	9 11 (a) (a) (a)
Metal, alloys and scrap							
Ferro-vanadium ..							
Vanadium oxide ..							
Other compounds ..							
Peru— Ore and concentrates (<i>V content</i>)	1,002	995	834	507	677	327	417

(a) Information not available.

IMPORTS OF VANADIUM

(Less Re-exports)

(Long tons)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Ore	(a)	2,613	2,614	618	1,331	914	1,006
Oxide	(a)	(a)	(a)	(a)	(a)	20	46
Other compounds ..	(a)	(a)	(a)	(a)	(a)	3	94
FOREIGN COUNTRIES							
France—							
Oxide		1	—	—	222	609	70
Italy—							
Oxide	88	445	269	34	(a)	(a)	(a)
Ferro-vanadium ..	5	2	2	(a)	—	—	17
Sweden—							
Ore	1	8	46	9	8	26	160
Ferro-vanadium ..	1	—	—	—	2	1	42
United States—							
Ore	11,002	16,291	9,874	1,896	3,918	1,243	1,462
(V content)	956	1,082	917	574	697	309	784
Flue dust (V content) ..	(a)	(a)	(a)	18	12	10	32
Japan—							
Ore	(a)	(a)	(a)	197	(a)	(a)	21

(a) Information not available.

ZINC

PRODUCTION OF ZINC ORE

(In terms of metal)

(Long tons)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Great Britain	4,964	3,942	4,579	8,663	3,562	—	—
Northern Rhodesia	(c) 13,545	(c) 12,840	13,704	14,796	15,576	17,568	21,600
South West Africa	—	—	—	—	—	—	(i) 5,300
Canada (b)	228,742	259,044	272,658	245,903	230,899	210,098	185,592
Newfoundland	62,252	50,180	59,286	53,125	50,597	48,653	39,481
Burma	(g) 50,606	(h) 32,526	—	—	—	—	—
Australia	248,844	221,834	182,841	174,358	150,313	171,910	182,258
TOTAL	609,000	580,000	533,000	497,000	451,000	448,200	428,900
FOREIGN COUNTRIES							
Austria	(a)	(a)	(a)	(a)	(a)	900	1,450
Bulgaria	2,300	(a)	(a)	(a)	(a)	(a)	(a)
Czechoslovakia	(j)	(j)	(j)	(j)	(a)	(a)	(a)
Finland	2,841	2,985	2,705	2,178	1,363	1,880	1,901
France	3,006	3,165	2,556	2,495	3,282	4,770	5,861
Germany (d)	236,000	231,000	261,000	250,000	(f) 24,000	(f) 14,916	(f) 21,959
Italy	70,000	74,000	48,000	20,900	9,700	25,500	53,700
Norway	4,366	4,758	4,810	4,984	1,806	4,243	5,548
Poland	(j)	(j)	(j)	(a)	(a)	(c) 55,720	(c) 70,623
Roumania	(e) 2,000	(e) 10	(e) 10	(a)	(a)	(a)	(a)
Spain (e)	37,000	35,000	36,000	30,000	26,000	33,000	35,000
Sweden	32,545	32,606	30,917	32,389	33,069	37,224	35,358
U.S.S.R. (e)	(a)	(a)	(a)	(a)	85,000	90,000	105,000
Yugoslavia (e)	16,000	16,000	16,000	16,000	10,000	25,000	30,000
Algeria	1,959	3,209	2,933	995	1,876	3,800	5,760
Belgian Congo	14,331	8,193	20,113	15,270	23,319	34,981	44,475
French Equatorial Africa	950	1,100	700	500	612	—	—
Morocco (French)	753	790	514	1,150	965	1,660	1,722
Tunis	620	650	146	730	755	1,529	2,540
Mexico	152,548	186,874	194,086	215,507	206,624	137,331	192,721
United States (k)	668,861	685,737	664,461	641,645	548,534	513,244	569,293
Argentina	37,542	29,238	20,123	(a)	(a)	(a)	(a)
Bolivia (exports)	5,971	10,737	20,741	16,061	20,644	18,885	14,381
Peru (k)	21,710	23,136	32,533	56,207	60,188	58,793	57,262
French Indo-China	7,500	6,063	4,830	1,383	374	—	—
Japan	71,560	79,851	89,323	73,036	22,325	20,716	29,068
TOTAL	1,480,000	1,540,000	1,550,000	1,480,000	1,100,000	1,100,000	1,300,000
WORLD'S TOTAL	2,089,000	2,120,000	2,083,000	1,980,000	1,550,000	1,550,000	1,730,000

(a) Information not available.

(b) Recoverable. Figures published previously referred to the contents of all ores by assay. Figures for the amounts estimated as recoverable for earlier years were given as a footnote in previous publications.

(c) Smelter production.

(d) In addition zinc contained in pyrites produced was as follows (long tons) :—

1941	53,125
1942	48,988
1943	54,959

(e) Estimated.

(f) British Zone only.

(g) Year ended June 30 of year stated.

(h) Nine months ended March 31, 1942.

(i) Content of ore sorted ex dumps. Not included in the totals.

(j) Included with Germany.

(k) Recoverable.

METAL PRODUCTION OF ZINC

(Long tons)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom	67,242	72,564	69,384	71,052	62,028	65,517	68,296
Northern Rhodesia ..	13,545	12,840	13,405	14,480	15,240	17,184	21,110
Canada	190,721	192,674	184,384	150,463	163,676	165,788	158,757
Australia	77,698	74,282	75,756	78,716	83,773	76,316	69,421
TOTAL	349,206	352,360	342,729	314,711	324,717	324,805	317,584
FOREIGN COUNTRIES							
Belgium	46,474	36,238	43,079	12,214	5,453	78,057	130,909
Czechoslovakia	(d)	(d)	(d)	(d)	(a)	(a)	(a)
France	25,509	22,468	21,151	8,654	8,281	30,524	46,281
Germany	204,846	199,445	201,864	159,720	(a)	(b) 16,307	(b) 20,498
Italy	37,387	33,015	24,800	6,000	1,600	15,021	23,697
Netherlands	(g) 3,659	(g) 5,071	(g) 4,493	(g) 2,072	(g) —	(g) 1,979	9,381
Norway	6,362	7,571	15,133	11,591	9,082	29,733	34,034
Poland	110,795	109,088	107,269	96,261	(a)	55,720	70,623
Spain	18,840	18,848	18,897	17,769	17,031	17,291	19,511
Sweden	—	—	—	1,762	2,882	—	—
U.S.S.R. (e)	(a)	(a)	(a)	(a)	85,000	90,000	105,000
Mexico	32,393	50,926	53,589	48,470	49,196	41,319	(a)
United States (c) (f)	733,946	796,314	841,347	776,163	682,644	650,234	716,513
Argentina	—	404	648	1,200	1,517	1,785	2,600
Peru	740	926	1,206	1,424	1,558	921	997
China	(a)	(a)	500	326	323	(a)	(a)
French Indo-China ..	6,151	5,406	4,072	612	(a)	(a)	(a)
Japan	61,195	53,866	59,985	61,683	25,373	11,078	14,598
TOTAL *	1,390,000	1,440,000	1,490,000	1,300,000	920,000	1,050,000	1,250,000
WORLD'S TOTAL * ..	1,740,000	1,790,000	1,830,000	1,615,000	1,245,000	1,375,000	1,568,000

* Zinc metal is also produced in Yugoslavia. An allowance has been made for this and other countries where information is not yet available.

(a) Information not available.

(b) British Zone only. Including secondary.

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

	1941	1942	1943	1944	1945	1946	1947
A—High grade—Special ..	181,277	206,627	261,757	224,295	196,644	210,879	213,637
Ordinary ..	158,438	223,662	271,199	224,638	171,106	161,041	170,026
B—Intermediate grade ..	66,783	69,221	55,982	49,936	43,845	28,834	32,870
C and D—Brass special ..	66,043	76,943	73,279	48,568	67,633	67,229	54,557
Selected ..	4,600	23,929	18,254	21,782	15,506	12,229	11,468
E—Prime Western	309,933	243,429	203,925	250,727	231,876	209,769	287,120

(d) Included with Germany.

(e) Estimated.

(f) Secondary zinc recovered was as follows (long tons) :—

1941	253,542	1945	321,825
1942	295,112	1946	268,466
1943	329,007	1947	277,494
1944	308,454		

(g) United States Bureau of Mines.

PRODUCTION OF ELECTROLYTIC ZINC

(Long tons)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Northern Rhodesia ..	7,598	8,669	11,595	8,026	10,531	7,176	14,753
Canada	190,721	192,674	184,384	150,463	163,676	165,788	158,757
Australia (Tasmania) ..	77,698	74,282	75,756	78,716	83,773	76,316	69,421
FOREIGN COUNTRIES							
Belgium	8,395	8,070	7,578	3,691	955	(a)	(a)
France	13,085	11,759	11,536	5,478	6,693	17,726	(a)
Italy	32,100	28,800	21,800	3,900	1,400	13,070	20,620
Norway	6,362	7,571	15,133	11,591	9,082	29,733	34,034
Poland	(a)	(a)	(a)	(a)	(a)	10,391	14,265
United States	200,279	225,881	294,555	283,383	241,004	251,156	263,857
Argentina	—	404	648	(a)	(a)	(a)	(a)
Japan	25,542	25,813	31,185	29,897	(b) 12,000	(b) 5,000	(b) 7,000

(a) Information not available.

(b) Estimated.

PRODUCTION OF ZINC DUST

(Long tons)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
Northern Rhodesia ..	(a)	(a)	(a)	(a)	(a)	6	30
Canada (estimated) ..	100	100	100	100	(a)	(a)	(a)
FOREIGN COUNTRIES							
Belgium	(a)	(a)	(a)	(a)	(a)	(a)	(a)
France	220	268	451	166	156	826	(a)
Germany	11,967	7,319	8,890	8,402	(a)	(a)	(a)
Poland	(b)	(b)	(b)	(b)	(a)	1,198	2,148
United States	21,812	20,358	23,205	23,670	23,104	25,512	27,323

(a) Information not available.

(b) Included with Germany.

PRODUCTION OF ROLLED ZINC SHEETS, PLATES AND STRIPS

(Long tons)

Producing Country	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom	25,800	24,200	24,600	26,200	24,120	26,424	26,098
FOREIGN COUNTRIES							
Belgium	24,054	19,064	15,835	(a)	(a)	(a)	(a)
France	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Germany	138,000	138,000	77,000	(a)	(a)	(a)	(a)
Poland	(c)	(c)	(c)	(a)	(a)	(a)	(a)
Spain	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Yugoslavia	(a)	(a)	(a)	(a)	(a)	(a)	(a)
United States (b)	62,035	58,059	41,702	67,080	86,587	81,297	63,569

(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
1941	13,023	1945	28,543
1942	13,965	1946	16,670
1943	11,437	1947	13,350
1944	19,246		

(c) Included with Germany.

EXPORTS OF ZINC
(Domestic Produce)
(Long tons)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Ingots, bars etc. ..	508	74	1,304	121	2,084	1,840	308
Sheets, plates, etc. ..	1,952	654	960	565	1,299	4,353	2,556
Oxide	7,821	1,921	1,044	1,250	11,817	22,845	11,201
Lithopone	14,743	6,193	7,720	6,406	7,634	7,003	3,969
Northern Rhodesia—							
Ingots	13,589	13,665	11,941	13,593	13,995	17,217	19,178
Southern Rhodesia—							
Fume, dust and shavings	22	34	23	11	19	10	8
Union of South Africa—							
Bars, sheets, etc. ..	1	—	—	851	381	(a)	(a)
Canada—							
Ore (Zn content)	49,356	67,959	99,353	101,164	81,946	51,965	36,228
Spelter	125,970	135,856	115,460	85,701	108,893	129,372	122,525
Dross, scrap and ashes ..	2,688	3,164	1,916	4,082	6,148	3,346	4,214
Newfoundland (c)—							
Concentrates	(b) 137,556	(d) 70,342	261,299	75,096	102,746	93,580	69,360
British India—							
Spelter, etc.	1	6	1	—	—	—	2
Burma—							
Concentrates (g)	(a)	(a)	(a)	(a)	(a)	48	(a)
Hong Kong (e)—							
Spelter	(a)	(a)	(a)	(a)	(a)	37	64
Sheets	(a)	(a)	(a)	(a)	(a)	1,197	3,991
Malaya (e)—							
Sheets	(a)	(a)	(a)	(a)	(a)	19	104
Australia—							
Ores and concentrates (Zn content) (f)	108,586	34,515	112,065	130,661	94,957	95,144	90,114
Dust (£ Australian)	(£367)	(£583)	(£469)	(£1,178)	(£95)	(£2,448)	(£8,774)
Bars, rods, sheets, etc. ..	31,823	15,073	38,524	60,502	58,193	51,044	30,279
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Ore	3,897	—	30	104	}	(a)	32,301
Spelter	18,823	32,407	38,656	10,793			
Scrap	—	—	—	—			
Sheets, tubes and wire ..	3,442	528	1,600	760			
Dust	160	331	69	39			
Oxide	349	196	780	633			
Lithopone	1,192	108	823	—			
Czechoslovakia—							
Spelter, scrap and alloys	}	(a)	(a)	(a)	(a)	53	877
Sheets and plates						653	181
Zinc-white and zinc-grey						1,379	1,071
Lithopone						783	2,593
Denmark—							
Spelter and scrap	2,801	1,735	1,579	1,239	390	1,283	(a)
Finland—							
Concentrates	(a)	(a)	7,147	3,947	—	3,486	4,029
Spelter and scrap	14	8	1	4	3	—	—

(a) Information not available.

(b) Years ended June 30 following that stated.

(c) Years ended March 31 following that stated.

(d) Nine months ended March 31, 1943.

(e) Including re-exports.

(f) Years ended June 30 of year stated.

(g) Recorded as "Spelter" in trade returns.

EXPORTS OF ZINC (Cont.)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
France—							
Ore	—	2,980	23	—	—	3,432	1,677
Spelter, bars and scrap	2,521	1,237	3,221	—	4	54	113
Sheets	267	506	182	—	118	853	1,808
Oxide	465	138	1	—	77	398	1,163
Lithopone, etc. .. .	203	93	—	—	3	150	153
Germany—							
Ore	—	3,706	1,964	(b) —			
Spelter, dust, scrap and alloys	35,990	30,719	35,738	(b) 16,324	(a)	(a)	(a)
Sheets and wire .. .	21,169	18,492	13,636	(b) 6,874			
Zinc-white and zinc-grey and lithopone ..	29,106	34,530	35,326	(b) 15,902			
Greece—							
Ore	(d) 5,000	(d) 1,000	(d) 1,000	(d) 2,000	—	(a)	(a)
Italy—							
Ore	77,624	67,654	(c) 12,010	(a)	(a)	24,802	68,280
Spelter, scrap and alloyed	10	30	246	—	—	4,331	600
Sheets, wire and alloyed, etc.	128	216	10	—	—	305	98
Netherlands—							
Ore	—	—	—				
Spelter and scrap ..	1,394	3,941	2,870	(a)	(a)	3,338	4,731
Sheets	6	488	493			360	375
Norway—							
Ore	—	—	—	—	2,053	5,659	7,379
Electrolytic zinc ..	5,365	3,271	14,668	9,251	7,044	23,868	23,579
Bars, sheets, wire, etc. ..	5	—	—	—	86	361	6
Ashes and scrap .. .	124	146	101	280	134	507	236
Poland—							
Sheets, tubes and wire ..	(a)	(a)	(a)	(a)	6,916	26,066	(a)
Portugal—							
Bars	168	7	7	3	14	27	10
Zinc-white	(a)	86	62	33	23	18	27
Spain—							
Blende	53,702	29,422	26,241	14,117	6,148	45,074	52,043
Bars, scrap, sheets, wire, etc.	192	355	473	949	1,049	783	1,022
Sweden—							
Ore	44,742	71,695	58,448	42,364	49,887	95,030	75,337
Spelter and scrap .. .	798	795	658	51	8	395	440
Zinc-white	—	—	—	—	1	4	13
Switzerland—							
Spelter and scrap .. .	183	7	—	—	—	522	1,514
Zinc-white, etc. .. .	24	28	1	1	2	7	46
Algeria—							
Ore	7,953	7,886	8,681	191	197	983	17,244
Spelter, plates and scrap	125	79	5	82	287	90	180
Oxide	8	—	—	—	2	—	13
Belgian Congo—							
Ore	15,138	15,045	21,082	408	27,494	(a)	84,662
Morocco (French)—							
Ore	896	(a)	(a)	(a)	(a)	(a)	(a)
Tunis (including re-exports)							
Ore	2,550	2,686	—	—	492	2,810	6,939
Mexico—							
Ores and concentrates ..	230,571	268,396	294,237	314,429	318,453	228,571	285,780
Refined	25,656	37,424	47,476	39,024	38,880	41,162	38,808
Zn content (e) .. .	146,717	175,062	185,440	195,965	200,075	128,143	(a)
Zinc oxide (metallurgical)	1,910	—	3,786	3,568	67	207	(a)

(a) Information not available.

(b) January to July only.

(c) January to June only.

(d) Imports into Germany from Greece.

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

EXPORTS OF ZINC (Cont.)

Exporting Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
United States—							
Ore and dross	—	—	1	—	(a)	(a)	(b) 1,253
Spelter	79,741	119,587	87,000	19,265	(a)	(a)	(a)
Sheets, strips, etc. ..	4,170	3,464	1,756	3,039	(a)	(a)	(a)
Dust	2,590	1,582	5,231	263	(a)	(a)	(a)
Oxide	7,378	5,369	5,375	4,921	6,341	9,781	17,037
Lithopone	19,221	15,211	15,466	10,314	10,336	8,617	12,190
Argentina—							
Ore	47,611	56,743	77,354	33,121	—	45,636	} (a)
Slag and ash	—	—	—	—	—	—	
Spelter, bars and sheets	5	5	5	3	—	5	
Bolivia—							
Ores (Zn content) ..	5,971	10,737	20,741	16,061	20,644	18,885	14,381
Chile—							
Bars	16	—	73	123	187	126	(a)
Peru—							
Ores, etc. (Zn content) ..	23,234	25,064	25,987	31,902	44,797	51,385	} 58,806
Bars (Zn Content) ..	739	939	1,205	1,428	1,558	921	
French Indo-China—							
Spelter and scrap ..	} 5,390	3,300	2,608	—	(a)	247	48
Sheets							
Japan—							
Spelter	—	3,919	5,474	—	—	(a)	17,703
Oxide	(a)	(a)	(a)	(a)	(a)	(a)	98
Turkey—							
Ore	(a)	(a)	(a)	—	—	72	7,005

(a) Information not available.

(b) Zn content.

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

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
BRITISH COUNTRIES							
United Kingdom—							
Ore and concentrates ..	210,471	142,716	97,124	179,033	153,566	165,497	130,485
Ingots, bars, etc. ..	208,998	211,671	187,569	119,316	88,288	49,394	(e) 148,750
Sheets, plates, etc. ..	22	9	3	8	4	(b) 14	(e) 13
Oxide	29	5	4	—	—	—	—
Lithopone	2	—	—	—	—	700	270
Eire—							
Sheets and plates ..	176	145	167	123	144	387	622
Kenya and Uganda—							
Bars, plates and sheets ..	8	7	2	1	11	13	11
Southern Rhodesia—							
Sheets, dust, etc. ..	409	462	319	433	275	352	315
South West Africa—							
Spelter, sheets, etc. ..	1	—	—	—	—	—	—
Union of South Africa—							
Spelter	7,931	8,670	5,601	9,786	9,413	(a)	(a)
Sheets	167	121	26	36	47	(a)	(a)
Dust and shavings ..	1,661	611	438	395	10	(a)	(a)
Canada—							
Spelter	—	5,205	12,088	3,966	—	—	—
Dust	183	3	3	18	21	16	171
Sheets, plates, bars, etc.	990	449	503	512	1,761	1,933	1,704
Zinc-white	3,296	925	990	779	1,043	826	1,968
Lithopone	13,774	8,927	7,926	8,482	9,078	7,909	11,372
Newfoundland (d)—							
Bars, sheets, etc. ..	(a)	(a)	(a)	62	51	47	19
British India—							
Spelter	11,243	13,381	3,441	1,890	6,045	42,148	(f) 34,744
Sheets, etc.	938	937	279	461	1,076	1,335	(f) 1,421
Zinc-white	391	179	70	52	185	938	(f) 868
Lithopone	2,035	1,535	1,382	1,477	1,124	723	(f) 675
Burma—							
Spelter	} (a)	(a)	(a)	(a)	(a)	{ (c) (a)	(a)
Zinc-white							
Ceylon—							
Blocks, ingots, etc. ..	1	1	1	1	—	1	—
Sheets and plates ..	14	1	21	45	—	9	76
Hong Kong (total imports)—							
Spelter	(a)	(a)	(a)	(a)	(a)	108	339
Sheets	(a)	(a)	(a)	(a)	(a)	2,095	3,130
Malaya (total imports)—							
Sheets	(a)	(a)	(a)	(a)	(a)	254	958
Palestine—							
Spelter and sheets ..	23	15	46	27	104	783	(a)
Lithopone	163	67	87	155	109	163	(a)
Australia—							
Dust (£ Aust.)	(£1)	(£5)	(£51)	(£103)	—	1	—
Blocks, sheets, scrap, etc.	1,544	55	1,154	68	20	71	73
Oxides	190	62	18	229	608	1,102	105
Lithopone	3,204	1,274	1,625	248	999	1,257	1,149
New Zealand—							
Spelter, bars and sheets	746	1,665	805	395	134	493	1,236

(a) Information not available.

(b) Excess of re-exports.

(c) February to September only.

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

(e) Total imports.

(f) January to November only.

IMPORTS OF ZINC (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Ore	10,493	72,806	28,707	3,002	50,912	216,456	284,114
Spelter	} 1,529	} 2,004	} 1,132	} 730	} 2,961	(a)	(a)
Scrap							
Sheets, tubes and wire ..							
Dust							
Oxide							
Lithopone	2,530	811	215	175			
Bulgaria—							
Spelter, bars, sheets and scrap	1,297	2,067	1,665	392	} (a)	(a)	(a)
Zinc-white	158	573	612	15			
Lithopone	215	404	455	213			
Czechoslovakia—							
Spelter, scrap and alloys	(a)	(a)	(a)	(a)	(a)	1,998	23,352
Zinc-white, zinc-grey, etc.	(a)	(a)	(a)	(a)	(a)	96	124
Denmark—							
Spelter	3,037	2,178	4,001	1,797	2,308	4,803	5,293
Scrap	125	212	61	154	23	10	37
Plates and sheets	5,056	2,454	2,876	3,088	527	6,425	7,299
Zinc-white	1,118	1,233	1,628	1,707	1,019	3,369	2,911
Lithopone	1,864	2,523	2,124	2,068	177	710	998
Finland (total imports)—							
Spelter and scrap	2,264	2,233	3,007	1,247	108	1,700	4,310
Sheets	964	911	1,074	589	—	131	307
Zinc-white	764	304	259	7	5	266	767
France—							
Ore	26,817	37,675	20,428	461	55,094	67,819	92,014
Spelter, bars and scrap ..	1,688	2,302	1,638	770	8,770	51,554	59,490
Sheets	14	371	625	67	12	29	4
Oxide	261	3,422	3,366	340	1,340	3,059	5,295
Lithopone	7,114	5,460	4,112	706	100	356	2,046
Germany—							
Ores	172,090	140,271	86,084	(b) 35,403	} (a)	(a)	(a)
Spelter, dust, scrap and alloys							
Sheets and wire							
Zinc-white and zinc-grey							
Lithopone							
Greece—							
Spelter, etc.	(a)	(a)	(a)	(a)	2	138	(a)
Iceland—							
Zinc-white	35	147	48	35	284	85	(a)
Lithopone	53	64	111	50	63	16	(a)
Italy—							
Ore and ashes	(a)	(a)	(a)	(a)	(a)	(a)	1
Spelter, matte, scrap and alloyed	197	2,155	3,455	(a)	—	59	2,992
Sheets, wire, etc., and alloyed	1,476	1,180	1,230	(a)	—	—	285
Oxide	587	1,005	(a)	(a)	(a)	(a)	(a)
Netherlands—							
Ore	4,889	5,990	8,475	} (a)	(a)	} 22,840	} 18,478
Spelter and scrap							
Sheets							
Zinc-white							
Lithopone							
Oxide	5	—	—			142	225

(a) Information not available.

(b) January to July only.

IMPORTS OF ZINC (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947
FOREIGN COUNTRIES (Cont.)							
Norway—							
Ore	7,706	22,314	23,705	19,301	18,975	72,200	81,645
Ashes and scrap	926	97	14	463	591	434	(a)
Spelter	365	499	1,534	2,165	1,489	348	76
Bars and sheets	1,343	561	11	107	14	187	81
Zinc-white	683	571	281	567	136	951	4,235
Lithopone	672	500	404	146	24	276	(a)
Poland							
Ores and slag	(a)	(a)	(a)	(a)	—	1,945	(a)
Portugal—							
Sheets, etc.	413	589	563	613	817	1,791	1,561
Oxide	750	718	709	422	701	1,975	1,590
Lithopone	1,090	949	991	416	98	162	411
Spain—							
Bars and scrap	1,816	1,448	254	5	3	2,225	656
Sweden—							
Ore	—	1,494	—	—	—	—	—
Spelter and scrap	8,721	11,932	15,181	10,193	6,464	25,038	19,209
Sheets	1,778	1,875	1,212	1,372	214	3,538	3,091
Zinc-white	3,668	3,088	4,337	5,066	6,404	10,496	11,076
Lithopone, etc.	3,574	4,654	5,693	6,340	630	3,464	3,703
Switzerland—							
Spelter and scrap	7,723	6,726	5,887	4,071	1,860	10,873	11,981
Dust	50	353	113	—	529	417	1,086
Bars, sheets, pipes and wire	5,015	2,584	635	627	235	1,664	1,921
Zinc-white, lithopone, etc.	3,905	2,842	3,097	1,996	1,245	5,177	5,115
Algeria—							
Spelter, sheets and scrap	122	180	14	361	11	571	923
Oxide	280	117	58	165	202	379	741
Lithopone, etc.	1	70	138	68	24	—	49
Angola—							
Bars, sheets and tubes ..	25	3	4	25	(a)	(a)	(a)
Egypt—							
Spelter, sheets and scrap	163	77	46	382	125	545	(a)
Zinc-white	813	253	74	187	1,447	626	(a)
Lithopone	595	128	29	38	139	63	(a)
Madagascar—							
Spelter, bars and sheets	11	(a)	—	(a)	(a)	(a)	(a)
Morocco (French)—							
Spelter, sheets and wire	2	12	56	—	18	54	26
Lithopone	97	125	—	53	144	198	225
Morocco (Spanish)—							
Spelter and sheets	(a)	(a)	(a)	29	43	22	164
Lithopone	(a)	(a)	(a)	3	2	1	3
Mozambique—							
Spelter, bars and sheets	21	8	2	1	30	26	(a)
Tunis—							
Sheets	84	135	—	42	76	187	396
Oxide	19	2	—	—	(a)	(a)	(a)
Cuba (total imports)—							
Sheets	37	38	45	74	101	(a)	(a)
Mexico—							
Spelter, sheets and scrap	1,318	725	842	701	530	474	—
Zinc-white	385	515	272	591	95	104	—
United States—							
Ore (Zn content)	209,325	339,238	490,206	371,979	300,359	176,664	261,436
Spelter	35,971	32,457	50,138	56,410	(a)	(a)	61,597
Dross and scrap	1,020	3,465	4,615	5,003	(a)	(a)	4,490
Sheets	242	45	—	14	(a)	(a)	7

(a) Information not available.

IMPORTS OF ZINC (Cont.)

Importing Country and Description	1941	1942	1943	1944	1945	1946	1947		
FOREIGN COUNTRIES (Cont.)									
United States (Cont.)—									
Dust	125	651	93	—	(a)	(a)	—		
Oxide	110	13	19	5	(a)	(a)	105		
Argentina—									
Spelter and bars ..	2,428	2,051	568	749	2,971	7,558	} (a)		
Sheets and plates ..	769	660	675	912	1,454	3,695			
Zinc-white	565	617	375	105	322	1,018			
Lithopone, etc. . . .	3,256	3,058	2,892	144	86	509			
Brazil (total imports)—									
Bars, sheets and plates ..	2,016	1,840	3,168	3,684	2,173	4,251	3,263		
Zinc-white	2,690	2,292	1,846	1,663	4,040	4,126	(a)		
Chile—									
Spelter	619	1,898	279	970	520	1,572	(a)		
Bars, sheets, etc. ..	136	737	245	23	22	1,329	(a)		
Zinc-white and lithopone	1,624	1,104	1,385	874	1,553	1,289	(a)		
Colombia—									
Spelter, sheets, alloys, etc.	198	179	121	(a)	174	120	(a)		
Zinc-white, etc. . . .	315	78	759	120	291	331	(a)		
Peru—									
Spelter, bars, sheets and powder	95	42	49	13	134	50	—		
Zinc-white and lithopone	247	221	146	200	381	505	—		
Uruguay—									
Spelter	(a)	(a)	} 78	107	} (a)	(a)	(a)		
Sheets	(a)	(a)							
Lithopone	(a)	(a)						614	66
Zinc-oxide	(a)	(a)						106	26
Venezuela—									
Spelter	222	100	—	—	(a)	(a)	(a)		
Zinc-white	386	140	332	—	(a)	(a)	(a)		
China—									
Spelter and dust ..	(a)	(a)	(a)	(a)	(a)	6,174	5,054		
Zinc-white	(a)	(a)	(a)	(a)	(a)	2,541	2,520		
Iran (total imports) (b)—									
Spelter, sheets and wire	14	34	—	—	(a)	(a)	(a)		
Iraq—									
Spelter, sheets, etc. ..	6	13	9	7	(a)	(a)	(a)		
Japan—									
Ore	26,194	9,987	11,627	17,578	(a)	(a)	(a)		
Spelter	6,224	3,346	3,396	636	5	(a)	742		
Netherlands East Indies—									
Spelter, sheets, wire, alloys, etc. . . .	(c) 2,018	(a)	(a)	(a)	(a)	(a)	(a)		
Syria and Lebanon—									
Spelter	—	—	1	—	7	—	(a)		
Sheets	—	—	3	1	7	143	(a)		
Turkey—									
Spelter, scrap and alloyed Bars, tubes, wire and alloyed	(a)	(a)	(a)	5	3	218	328		
	(a)	(a)	(a)	317	207	2,355	2,154		

(a) Information not available.

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

(c) January to October only.

MISCELLANEOUS MINERALS

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

Country and Description	1941	1942	1943	1944	1945	1946	1947
SELENIUM							
PRODUCTION—							
Northern Rhodesia .. Lb.	—	—	—	—	—	(h) 108,889	11,826
Canada Lb.	406,930	495,369	374,013	298,592	379,187	521,867	501,090
Sweden (exports) .. Lb.	151,017	130,088	126,082	100,839	750	122,246	89,098
Mexico (exports) .. Lb.	(i) 431,807	(i) 248,375	—	—	—	—	(a)
United States .. Lb.	620,493	506,426	635,581	485,446	458,486	291,103	612,611
EXPORTS—							
Canada (e) .. Lb.	336,329	225,127	211,530	250,404	442,084	723,490	673,588
Sweden Lb.	151,017	130,088	126,082	100,839	750	122,246	89,098
Mexico Lb.	(i) 431,807	(i) 248,375	—	—	—	—	(a)
IMPORTS—							
United Kingdom .. Lb.	123,217	123,220	104,757	81,497	142,816	168,004	142,932
Czechoslovakia .. Lb.	(a)	(a)	(a)	(a)	(a)	4,850	123
Portugal Lb.	(a)	500	(a)	(a)	(a)	2,020	(a)
Sweden Lb.	4	60	141	9	—	2,017	1,105
United States .. Lb.	197,873	83,666	81,720	97,800	(e) 219,215	(e) 475,081	(e) 529,175
Brazil Lb.	7,194	5,159	2,646	3,761	3,100	5,723	(a)
Peru (e) Lb.	110	60	201	410	110	617	(a)
TELLURIUM							
PRODUCTION—							
Canada Lb.	11,453	11,084	8,600	10,661	484	15,848	9,194
United States .. Lb.	224,639	224,132	56,174	69,025	80,750	3,765	59,290
Peru Lb.	—	—	—	755	1,020	(a)	(a)
ZIRCONIUM MINERALS							
PRODUCTION—							
India Ton	2,502	273	—	755	1,020	466	(a)
Malaya—							
Zircon Ton	(a)	(f) 183	(f) 183	(f) 183	(f) 183	—	—
Zircon-monazite .. Ton	(a)	(f) 52	(f) 52	(f) 52	(f) 52	—	—
Australia—							
Zircon (c) Ton	12,790	11,218	10,334	14,000	15,180	10,134	21,576
Zircon concentrates (g)							
Ton	1,921	2,038	643	3,248	6,417	8,088	(a)
Egypt Ton	50	38	—	12	10	4	—
French West Africa .. Ton	—	207	66	—	—	(a)	38
Madagascar Ton	—	—	—	—	3	—	—
Brazil (exports) .. Ton	4,660	16,844	4,843	2,118	746	4,382	(a)
EXPORTS—							
India (Travancore) (b) .. Ton	—	—	—	—	(a)	(a)	(a)
Australia (d)—							
Zircon Ton	(a)	(a)	(a)	(a)	(a)	5,330	9,947
Zircon-rutile Ton	(a)	(a)	(a)	(a)	(a)	4,174	7,193
Zircon-rutile-ilmenite .. Ton	(a)	(a)	(a)	(a)	(a)	4,026	4,520

(a) Information not available.

(b) Years ended August.

(c) Estimated zircon content of all zircon-bearing concentrates.

(d) Years ended June 30 of that stated.

(e) Including salts.

(f) Average annual production during Japanese occupation.

(g) Zircon content included above and not additional.

(h) Recovered from electrolytic copper refinery slimes accumulated during the war years.

(i) Selenium content of smelter residues.

MISCELLANEOUS MINERALS (Cont.)

Country and Description	1941	1942	1943	1944	1945	1946	1947
ZIRCONIUM MINERALS (Cont.)							
EXPORTS (Cont.)—							
French West Africa—							
Zircon-ilmenite .. Ton	516	2,550	—	—	—	(a)	(a)
Brazil Ton	4,660	16,844	4,843	2,118	746	4,382	(a)
IMPORTS—							
United Kingdom .. Ton	55	300	33	48	345	814	(a)
Canada—							
Zirconium oxide .. £	3,149	2,406	3,404	3,663	9,240	12,783	15,444
Zirconium silicate .. £	17,792	8,500	9,381	6,055	4,375	6,203	9,271
United States—							
Zirconium ore (c) .. Ton	24,709	30,273	25,368	21,458	23,634	15,013	27,400
Zircon Ton	13,975	10,126	10,243	10,104	15,307	10,303	—
Baddeleyite Ton	(b) 4,466	13,646	7,974	(b) 2,082	707	2,171	—
LITHIUM MINERALS							
PRODUCTION—							
South West Africa—							
Amblygonite Ton	204	22	—	—	—	—	30
Lepidolite Ton	—	395	720	1,645	1,135	1,680	2,950
Petalite Ton	10	15	—	—	—	—	100
Australia—							
Amblygonite Ton	—	—	8	—	—	—	—
France—							
Lepidolite Ton	(a)	300	(a)	(a)	(a)	(a)	(a)
Portugal—							
Amblygonite Ton	20	(a)	89	98	2	—	—
Sweden—							
Petalite Ton	415	218	307	145	—	—	—
Spodumene Ton	112	34	83	109	20	48	—
United States Ton	3,422	4,826	7,281	11,892	2,184	2,737	2,179
Argentina—							
Spodumene Ton	49	—	74	(a)	(a)	(a)	(a)
Korea Ton	(a)	(a)	(a)	752	(a)	(a)	(a)
EXPORTS—							
South West Africa—							
Lepidolite Ton	—	98	743	1,504	1,458	2,263	2,023
Petalite Ton	—	—	—	—	—	—	50
VERMICULITE							
PRODUCTION—							
Kenya Ton	—	—	—	—	10	—	(4 cwt.)
Tanganyika Territory .. Ton	—	—	—	—	—	50	—
Union of South Africa .. Ton	180	1,574	671	1,207	2,469	4,942	14,085
Australia Ton	160	178	363	123	59	203	82
United States (sales) .. Ton	20,927	51,650	41,647	48,318	57,864	77,134	117,308
EXPORTS—							
Union of South Africa .. Ton	(a)	(a)	100	179	593	1,551	7,602
IMPORTS—							
Canada £	2,733	2,733	4,153	4,756	7,977	3,402	32,256

(a) Information not available.

(b) Includes some zircon.

(c) 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 the above item.

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