

COLONIAL GEOLOGICAL SURVEYS  
MINERAL RESOURCES DIVISION

STATISTICAL SUMMARY  
OF THE  
MINERAL INDUSTRY

PRODUCTION, IMPORTS AND EXPORTS

1942-1948



LONDON: HIS MAJESTY'S STATIONERY OFFICE

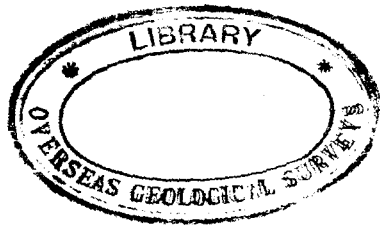
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STATISTICAL SUMMARY OF THE MINERAL  
INDUSTRY 1942-1948

**CORRIGENDA**

Page 70

**United Kingdom**

Substitute the following figures in the 1948  
column—

*Anthracite*

Small and sized 398,669 instead of 2,195,567

*Bituminous*

Small and sized 5,335,887 instead of 1,152,603

Unscreened 1,524,371 instead of 999,944

Large 3,108,931 instead of 806,928

Page 175

*Footnote (b)*—Substitute the following figures  
against United States—

295,541 instead of 258,014 in 1947 column

381,455 instead of 162,906 in 1948 column

COLONIAL GEOLOGICAL SURVEYS  
MARCH, 1951

LONDON: HIS MAJESTY'S STATIONERY OFFICE: 1951

11631

*H. Willbourn*

COLONIAL GEOLOGICAL SURVEYS

Statistical Summary of the Mineral Industry 1942-1948.

CORRIGENDA

Page 103

Belgian Congo - The figure of 1,084,000 in the 1948 column  
should read 10,841,000.

Page 211

Iran - "000" should be added to all figures.

COLONIAL GEOLOGICAL SURVEYS

MINERAL RESOURCES DIVISION

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STATISTICAL SUMMARY  
OF THE  
MINERAL INDUSTRY

PRODUCTION, IMPORTS AND EXPORTS

1942-1948



LONDON : HIS MAJESTY'S STATIONERY OFFICE

1950

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

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

All communications should be addressed to :—

Mineral Resources Division,  
Colonial Geological Surveys,  
Imperial Institute Building,  
London, S.W.7.

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## EXPLANATORY NOTES

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

(2) 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.

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

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

(5) Production statistics for India include those of Pakistan prior to the year 1947. With effect from August, 1947, the direct foreign trade of Pakistan is excluded from that of India as also is the sea-borne trade of India with Pakistan up to March, 1948, when the trade between the two countries is recorded in the Indian returns. Separate trade statistics for Pakistan are not yet available.

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

(7) The Irish Republic, formerly known as Eire is no longer included under British Countries, but for convenience is put separately between British and Foreign Countries.

(8) Burma is included with Foreign Countries in 1948.

(9) Production statistics for the French Zone of Germany include the Saar. The trade statistics for France, however, include those of the Saar from April 1, 1948.

(10) 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.



## ABRASIVES\*

### PRODUCTION OF NATURAL ABRASIVES

(Long tons)

Producing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
Nyasaland—							
Corundum .. ..	81	177	245	323	379	—	—
Southern Rhodesia—							
Corundum .. ..	73	43	—	—	12	—	112
Swaziland—							
Corundum .. ..	14	—	—	—	—	—	—
Tanganyika Territory—							
Corundum .. ..	—	6	—	—	—	—	—
Union of South Africa—							
Corundum .. ..	6,617	4,203	3,480	4,310	1,828	2,278	2,497
Garnet .. ..	707	512	319	(a)	(a)	(a)	(a)
Canada—							
Corundum (Shipments)	—	—	154	1,176	662	—	—
Grindstones .. ..	179	145	201	201	263	299	196
Sharpening stones ..	14	2	—	—	—	—	—
India—							
Corundum .. ..	133	108	343	403	95	179	280
Garnet sand .. ..	—	—	23	12	(a)	8	(a)
Australia—							
Emery .. ..	13	—	—	—	—	—	—
New Zealand—							
Pumice (b) .. ..	3,085	3,422	2,931	2,183	3,409	3,389	6,863
<b>FOREIGN COUNTRIES</b>							
Belgium—							
Grindstones .. ..	(a)	(a)	(a)	(a)	142	41	(a)
France—							
Pumice .. ..	(a)	340	220	4,921	6,889	11,220	12,300
Millstones .. ..	3,169	530	1,183	2,256	7,510	17,400	11,800
Sharpening stones ..	207	265	150	2,533	1,673	690	295
Greece—							
Emery .. ..	499	—	—	550	6,000	9,094	12,000
Pumice .. ..	—	—	—	—	2,500	1,737	(a)
Italy—							
Pumice .. ..	35,397	6,757	942	2,672	(a)	(a)	(a)
Millstones .. ..	24	8	—	—	(a)	(a)	(a)
Sharpening stones ..	1,793	3,474	998	632	(a)	(a)	(a)
Whetstones .. ..	661	273	1,216	271	(a)	(a)	(a)
Norway (exports)—							
Millstones, grindstones, etc. .. ..	499	510	463	430	983	1,460	2,416
Portugal—							
Tripoli .. ..	972	477	159	978	596	1,576	3,506
Spain—							
Pumice .. ..	(a)	(a)	(a)	(a)	(a)	(a)	209
Tripoli .. ..	1,733	897	832	3,931	14,065	9,482	6,671
Garnet .. ..	43	180	123	101	229	142	188
Sweden—							
Millstones, etc. .. ..	10	111	94	62	—	—	(a)
Grindstones and whet- stones .. ..	2,073	2,057	1,127	2,059	2,714	1,099	(a)
Egypt—							
Pumice .. ..	250	290	635	935	1,220	2,490	787
Garnet .. ..	—	—	—	—	11	—	143

\* 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	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
French Equatorial Africa—							
Corundum .. ..	—	—	—	140	45	2	—
Madagascar—							
Corundum .. ..	—	14	69	49	21	1	4
Garnet .. ..	(a)	(a)	(a)	(a)	(a)	89	131
Mozambique—							
Corundum .. ..	—	820	1,091	150	—	—	6
United States (Sales)—							
Emery .. ..	4,712	5,952	6,196	7,014	5,525	5,177	4,826
Garnet .. ..	3,890	5,299	(a)	5,630	6,913	7,788	7,178
Pumice .. ..	112,966	76,027	79,247	140,188	285,610	395,136	542,630
Tripoli .. ..	15,657	13,314	16,451	16,292	25,853	30,873	23,969
Grindstones .. ..	11,396	9,582	8,369	8,958	10,362	9,482	7,072
Pulpstones .. ..	1,713	1,688	(a)	(a)	64	68	29
Argentina—							
Pumice .. ..	3,816	11,165	(a)	(a)	(a)	(a)	(a)
Turkey—							
Emery .. ..	10,156	2,669	98	2,134	8,318	11,903	7,737
Millstones (number) ..	921	—	—	—	—	—	(a)

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

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

	1942	1943	1944	1945	1946	1947	1948
Silicon carbide ..	39,652	45,787	42,053	40,553	44,601	46,164	47,229
Fused alumina ..	143,692	170,292	148,302	118,921	106,449	130,744	129,320

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

	1942	1943	1944	1945	1946	1947	1948
Silicon carbide ..	55,072	62,237	50,260	48,013	57,008	56,897	56,279
Aluminium oxide ..	163,958	194,129	165,690	131,264	117,932	142,877	138,368
Metallic abrasives ..	95,038	111,566	129,054	131,046	99,564	137,671	131,445

(U.S. plants only).

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

(a) Information not available.

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

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom—							
Abrasives, natural and artificial .. ..	230	140	470	85	320	740	2,807
Grinding wheels of—							
Artificial corundum, etc.	262	203	272	479	606	557	742
Carborundum .. ..	246	174	351	250	571	536	693
Emery .. ..	40	24	12	31	101	457	275
Other hard abrasives ..	394	429	563	537	832	1,203	742
Grindstones .. ..	1,069	830	752	1,085	2,848	} (b) 3,401	4,001
Whetstones .. ..	81	82	43	52	674		
Other manufactured abrasives—							
Natural .. ..	684	610	819	1,093	2,870	} 2,770	717
Artificial .. ..	263	183	221	536	1,032		
Nyasaland—							
Corundum .. ..	—	—	—	355	412	17	—
Tanganyika Territory—							
Corundum .. ..	—	6	—	—	—	—	—
Union of South Africa—							
Corundum .. ..	6,433	4,629	3,593	4,144	1,737	2,277	2,497
Canada—							
Natural abrasives, including diatomaceous earth	5	9	5	11	5	54	15
Artificial abrasives .. ..	185,657	215,636	192,052	158,966	155,719	175,715	178,780
Artificial abrasive wheels, etc. .. ..	(£17,053)	(£103,183)	(£53,709)	(£34,586)	(£20,210)	(£73,753)	(£42,076)
Grindstones .. ..	(£1,013)	(£1,131)	(£47)	(£4,386)	(£8,303)	(£6,175)	(£5,365)
Cyprus—							
Pumice .. ..	(a)	(a)	—	102	—	—	4
India—							
Garnet sand .. ..	(a)	(a)	(a)	(a)	(a)	4	(a)
Palestine—							
Millstones .. ..	(£98)	(£3,650)	(£7,540)	(£5,149)	(£4,568)	(a)	(a)
Australia—							
Pumice (£ Aust.) .. ..	—	(£413)	—	—	—	—	—
Corundum, emery, etc. (£ Aust.) .. ..	(£2,252)	(£1,804)	(£4,241)	(£4,151)	(£15,734)	(£20,359)	(£12,067)
New Zealand—							
Pumice .. ..	3,093	3,412	2,345	2,185	2,545	2,410	1,735
<b>FOREIGN COUNTRIES</b>							
Austria—							
Emery, etc. .. ..	(a)	(a)	(a)	(a)	(a)	—	105
Grindstones, natural ..	(a)	(a)	(a)	(a)	(a)	20	—
Millstones .. ..	(a)	(a)	(a)	(a)	(a)	73	362
Belgium-Luxemburg E.U.—							
Millstones and grindstones, natural ..	94	235	1,057	(a)	(a)	(a)	(a)
Millstones and grindstones, artificial ..	262	282	155	(a)	(a)	(a)	138
Other abrasives .. ..	378	230	1	(a)	(a)	(a)	(a)
Bulgaria—							
Millstones, grindstones, etc. .. ..	115	232	149	235	29	(a)	(a)

\* See also Aluminium, Diamonds and Diatomaceous earth.

(a) Information not available.

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

EXPORTS OF ABRASIVES (Cont.)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
Czechoslovakia—							
Emery and pumice ..	(a)	(a)	(a)	(a)	1	2	(c) 1
Carborundum ..					2	1	(c) 528
Grindstones, etc., natural					15	12	(c) 13
do. carborundum ..					227	890	(c) 531
do. emery, etc. ..					22	28	(c) 660
Millstones ..					1	48	(c) 10
Other abrasives ..					—	1	(c) —
Denmark—							
Emery ..	—	—	—	1	5	2	9
Millstones and grindstones, natural ..	4	—	—	1	3	10	72
do. artificial ..	12	12	2	1	142	315	212
Finland—							
Grindstones, etc. ..	123	176	85	25	113	242	433
France—							
Corundum and emery ..	353	149	3	12	37	228	146
Pumice ..	(a)	—	4	4	162	352	381
Tripoli ..	—	—	—	—	52	17	(a)
Millstones and grindstones ..	1,577	1,003	194	374	1,656	2,239	3,104
Whetstones ..	19	1	7	—	108	164	79
Artificial abrasives ..	4,081	7,114	3,641	1,010	4,348	1,737	98
Germany—							
Emery ..	508	418	(b) 174	(a)	(a)	(a)	(a)
Carborundum, etc. ..	5,009	3,729	(b) 1,609				
Millstones, grindstones, etc. ..	9,151	10,815	(b) 4,259				
Other abrasives ..	3,384	3,672	(b) 1,308				
Greece—							
Emery ..	(a)	(a)	(a)	—	4,084	3,382	(a)
Pumice ..				(a)	—	1,653	(a)
Italy—							
Pumice ..	10,272	(a)	(a)	(a)	(a)	17,868	16,328
Artificial abrasives ..	(a)	(a)	(a)	(a)	(a)	5	113
Netherlands—							
Emery ..	36	18	(a)	(a)	1,096	1,710	1,827
Norway—							
Emery, etc. ..	14	10	20	9	12	2	5
Millstones, grindstones, etc. ..	499	510	463	430	983	1,460	2,416
Other artificial abrasives	62	72	42	42	154	163	224
Sweden—							
Emery ..	—	—	—	17	—	2	—
Other natural abrasives ..	1	—	—	40	7	3	15
Carborundum, etc. ..	170	8	—	39	158	393	67
Millstones, grindstones, etc. ..	490	418	347	677	1,009	1,304	1,174
Switzerland—							
Carborundum, emery, etc., crude ..	71	49	6	39	—	35	52
do. do. ground ..	221	216	32	296	768	1,244	1,956
Grindstones ..	6	—	—	—	16	34	179
Millstones ..	—	—	—	—	2	7	—
Belgian Congo—							
Corundum ..	(a)	—	5	—	(a)	(a)	(a)
Egypt—							
Emery, pumice, etc. ..	—	24	119	—	—	—	—

(a) Information not available.

(b) January to July only.

(c) January to October only.

## EXPORTS OF ABRASIVES (Cont.)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Madagascar—							
Corundum .. ..	—	—	70	35	10	12	11
Garnet .. ..	(a)	(a)	(a)	(a)	40	40	125
Mozambique—							
Corundum .. ..	—	—	1,088	265	55	—	(a)
Costa Rica—							
Millstones .. ..	55	250	9	52	75	40	105
Mexico—							
Pumice .. ..	34	29	26	—	18	(a)	(a)
Emery, etc. .. ..	—	1	—	—	3	(a)	(a)
Millstones, whetstones, etc. .. ..	1	1	1	8	8	(a)	(a)
United States—							
Emery powder .. ..	405	322	332	146	(a)	244	124
Wheels of emery and corundum .. ..	2,851	1,035	268	111	193	201	57
Grindstones .. ..	2,810	2,106	1,515	2,098	2,739	2,050	1,289
Other natural abrasives ..	12,603	15,208	20,310	24,352	(a)	31,245	26,901
Crude artificial abrasives	30,360	29,753	31,785	27,974	25,676	25,375	21,669
Artificial abrasive wheels	4,500	6,025	5,798	7,684	4,153	4,550	3,017
Artificial hones, whet- stones, etc. .. ..	1,087	452	301	463	807	749	435
Turkey—							
Emery and carborundum	(a)	(a)	55	4,999	10,179	11,218	9,575

(a) Information not available.

IMPORTS OF ABRASIVES \*

(Less Re-exports)

(Long tons)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Emery .. .. .	1,259	10,090	1,520	4,311	5,364	6,781	6,348
Garnet concentrates—							
Unground .. .. .	(a)	(a)	(a)	(a)	500	559	511
Ground .. .. .	(a)	(a)	(a)	(a)	(a)	113	230
Artificial corundum ..	18,393	19,458	14,223	3,500	11,616	18,794	18,050
Carborundum, unground	169	71	71	123	302	400	174
do. ground ..	6,836	6,688	4,579	4,814	6,400	9,191	5,441
Other hard abrasives ..	1,579	1,611	571	612	2,662	2,262	2,679
Grinding wheels of—							
Artificial corundum, etc. .. .. .	1,400	1,495	225	29	2	27	54
Carborundum .. ..	1,157	145	12	1	1	—	12
Emery .. .. .	792	32	25	8	1	—	—
Other hard abrasives	539	13	52	34	5	48	112
Grindstones and whetstones .. .. .	1	42	4	2	6	5	7
Other manufactured abrasives—							
Natural .. .. .	93	763	263	1,062	1,738	} 6,859	6,286
Artificial .. .. .	8,354	4,902	3,625	1,523	3,110		
Anglo-Egyptian Sudan—							
Grindstones .. .. .	(a)	22	19	13	24	18	38
Kenya and Uganda—							
Grindstones .. .. .	4	3	2	1	14	—	28
Mauritius—							
Grindstones .. .. .	(a)	(a)	(a)	(£1,550)	(a)	(£703)	(a)
Seychelles—							
Grindstones .. .. .	—	—	1	—	4	5	2
Tanganyika Territory—							
Grindstones, whetstones, etc. .. .. .	3	5	12	107	6	9	13
Union of South Africa (total imports)—							
Emery .. .. .	12	9	20	38	39	} (a)	(a)
Pumice .. .. .	133	137	13	71	101		
Other abrasives (£S.A.)	(£3,652)	(£2,111)	(£6,725)	(£12,205)	(£10,204)		
Emery and other wheels (£ S.A.) .. .. .	(£52,823)	(£81,487)	(£136,819)	(£127,601)	(£80,217)		
Grindstones, millstones, etc. (£ S.A.) .. ..	(£2,163)	(£1,507)	(£4,214)	(£9,496)	(£9,911)		
Canada—							
Pumice, etc. .. .. .	(£6,499)	(£4,377)	(£6,265)	(£10,122)	(£16,888)	(£15,400)	(£26,969)
Emery, ground .. ..	(£17,811)	(£17,596)	(£16,543)	(£18,164)	(£26,894)	(£30,685)	(£35,367)
Artificial abrasives, ground	(£426,628)	(£430,498)	(£414,236)	(£363,061)	(£373,150)	(£396,638)	(£368,114)
Buhrstones .. .. .	(£617)	(£102)	(£239)	(£175)	(£26)	(£400)	(£86)
Emery and artificial abrasives manufactures ..	(£22,583)	(£18,423)	(£16,543)	(£18,164)	(£24,126)	(£25,619)	(£26,488)
Grindstones and wheels	(£170,999)	(£151,866)	(£117,036)	(£107,243)	(£128,480)	(£159,307)	(£177,795)
Newfoundland (b)—							
Grindstones .. .. .	(c) (£1,031)	(£1,590)	(£1,486)	(£10,898)	(£16,992)	(£12,514)	(£3,393)
Whetstones, etc. ..	(a)	(a)	(£893)	(£913)	(£1,165)	(£934)	(£344)
British West Indies—							
Jamaica—							
Grindstones and millstones .. .. .	(£266)	(£145)	(£796)	(d) (£650)	(d) (£445)	(d) (£1,145)	(d) (£1,129)

\* See also Aluminium, Diamonds and Diatomaceous earth.

(a) Information not available.

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

(c) Nine months ended March 31, 1943.

(d) Grindstones only.

## IMPORTS OF ABRASIVES (Cont.).

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948		
<b>BRITISH COUNTRIES (Cont.)</b>									
<b>British West Indies (Cont.)</b>									
Trinidad and Tobago—									
Grindstones and wheels	33	25	12	16	(e) 207	13	395		
Ceylon—									
Grindstones .. ..	(£1,382)	(£1,155)	(£175)	(£343)	(£1,675)	(£1,328)	(£1,785)		
Cyprus—									
Grindstones and millstones .. ..	(a)	(a)	(£11)	(£338)	(£9,236)	(£4,342)	(£4,208)		
Palestine—									
Millstones .. ..	(£584)	(£1,520)	(£1,238)	(£743)	(£7,353)	(a)	(a)		
Australia (£ Aust.)—									
Corundum, emery, etc. ..	(£383,814)	(£309,930)	(£170,541)	(£177,249)	(£151,076)	(£250,977)	(£190,684)		
Pumice .. ..	(£10,766)	(£11,257)	(£10,200)	(£8,165)	(£13,416)	(£7,738)	(£10,689)		
New Zealand—									
Pumice .. ..	1	—	1	—	—	2	1		
Grindstones, etc. (£N.Z.)	(£7,792)	(£11,171)	(£8,954)	(£13,492)	(£20,921)	(£26,423)	(a)		
<b>Irish Republic—</b>									
Grindstones, oilstones, etc. .. ..	153	156	112	151	144	157	140		
<b>FOREIGN COUNTRIES</b>									
<b>Austria—</b>									
Emery, etc. .. ..	(a)	(a)	(a)	(a)	(a)	434	627		
Pumice, etc. .. ..								15	53
Grindstones, natural ..								240	292
do. artificial .. ..								101	430
Millstones .. ..								41	58
<b>Belgium-Luxemburg E.U.—</b>									
Corundum, artificial ..	(a)	(a)	(a)	(a)	(a)	(a)	271		
Millstones and grindstones, natural ..	433	405	76	(a)	(a)	(a)	1,731		
do. artificial .. ..	286	245	195	(a)	(a)	(a)			
Other abrasives .. ..	1,593	1,253	210	(a)	(a)	(a)	1,378		
<b>Bulgaria—</b>									
Emery, etc. .. ..	216	216	76	3	2	(a)	(a)		
Millstones, grindstones, etc. .. ..	85	103	24	10	—	(a)	(a)		
<b>Czechoslovakia—</b>									
Emery .. ..	(a)	(a)	(a)	(a)	10	—	(b) 10		
Pumice .. ..							20	(b) —	
Carborundum .. ..							335	(b) 142	
Grindstones, etc., natural							25	(b) 296	
do. carborundum ..							—	(b) 22	
do. emery, etc. ..							1	(b) 55	
Millstones .. ..	85	(b) 163							
Other abrasives .. ..	1	(b) 2							
<b>Denmark—</b>									
Emery, etc. .. ..	264	240	162	7	332	379	419		
Pumice .. ..	398	86	24	—	258	339	358		
Carborundum .. ..	145	74	70	81	212	162	238		
Millstones and grindstones, natural ..	420	342	261	261	654	141	191		
do. artificial .. ..	131	156	127	124	440	433	361		
<b>Finland (total imports)—</b>									
Emery, pumice, etc. ..	310	423	87	59	347	579	482		
Carborundum, etc. ..	50	76	8	45	60	139	92		
Millstones, etc. .. ..	16	17	—	—	1	1	13		
Whetstones, grindstones, etc. .. ..	665	1,365	866	191	634	1,015	2,075		

(a) Information not available.

(b) January to October only.

(c) Excess of re-exports.

## IMPORTS OF ABRASIVES (Cont.)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
France—							
Corundum and emery ..	1	10	—	576	2,072	3,232	2,761
Pumice .. .. .	202	194	—	—	2,046	4,978	2,322
Tripoli .. .. .	(a)	(a)	(a)	(a)	(a)	550	(a)
Millstones and grindstones	226	227	1	42	75	358	184
Whetstones .. ..	31	16	18	—	38	104	305
Carborundum .. ..	362	231	110	484	1,817	2,185	946
Other artificial abrasives	131	1	(a)	1,211	1,502	2,233	(a)
Germany—							
Emery .. .. .	281	2,884	(b) 208	} (a)	(a)	(a)	(a)
Carborundum, etc. ..	2,877	4,913	(b) 1,074				
Millstones, grindstones, etc. .. .. .	1,148	1,592	(b) 1,974				
Other abrasives .. ..	2,799	2,863	(b) 6,131				
Iceland—							
Millstones, etc. .. .	42	55	7	37	16	(a)	(a)
Italy—							
Artificial abrasives ..	(a)	(a)	(a)	(a)	(a)	891	1,474
Netherlands—							
Emery .. .. .	47	1	(a)	(a)	2,273	2,602	3,686
Millstones and grindstones							
Natural .. .. .	—	—	(a)	(a)	—	—	602
Artificial .. .. .	—	—	(a)	(a)	—	—	724
Other artificial abrasives	—	—	(a)	(a)	—	—	71
Norway—							
Emery, etc. .. .. .	192	170	131	248	399	385	599
Millstones, grindstones, etc. .. .. .	425	474	306	518	912	1,685	1,254
Other artificial abrasives	17	11	6	2	35	22	38
Portugal—							
Emery, etc. .. .. .	62	160	22	182	177	347	168
Millstones .. .. .	—	97	—	40	114	186	182
Spain—							
Emery powder .. .. .	434	324	26	162	72	53	31
Carborundum .. .. .	20	101	47	290	49	123	66
Sweden—							
Emery .. .. .	213	236	65	390	769	403	713
Pumice .. .. .	224	34	—	56	651	97	209
Other natural abrasives ..	852	816	861	581	2,433	2,556	2,862
Carborundum, etc. .. .	166	135	122	73	713	1,081	1,165
Grindstones, etc. .. .	598	785	442	329	1,138	1,385	1,329
Millstones .. .. .	143	245	223	345	619	904	1,267
Switzerland—							
Emery, crude .. .. .	197	93	51	334	989	904	755
Carborundum, emery, etc., ground .. .. .	358	387	120	430	782	1,201	1,478
Millstones .. .. .	54	53	49	12	10	31	47
Grindstones .. .. .	480	532	143	66	432	593	450
Whetstones .. .. .	27	32	10	4	1	36	25
Algeria—							
Emery, corundum, etc.	7	—	2	3	5	50	56
Pumice .. .. .	3	—	—	3	157	189	138
Millstones and grindstones	321	8	26	236	363	386	450
Egypt—							
Emery, pumice, etc. ..	76	4	—	17	(c) 844	(c) 266	(c) 1,978
Millstones .. .. .	—	1	1	—	—	(c) 67	(c) 104
Grindstones .. .. .	65	33	50	214	135	(c) 150	(c) 235
Whetstones .. .. .	12	5	1	8	6	(c) 13	(c) 44
Madagascar—							
Millstones, grindstones, and whetstones .. .	(a)	(a)	(a)	(a)	7	11	27

(a) Information not available.

(b) January to July only.

(c) Total imports.



## IMPORTS OF ABRASIVES (Cont.)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948	
<b>FOREIGN COUNTRIES (Cont.)</b>								
Morocco (French)—								
Millstones and grindstones	128	11	9	96	284	139	(a)	
Tunis—								
Emery and pumice ..	31	1	16	33	169	55	49	
Millstones and grindstones ..	19	—	—	9	19	13	50	
Cuba (total imports)—								
Grindstones ..	1,167	1,100	553	964	(a)	(a)	(a)	
Mexico—								
Emery and carborundum	1,298	1,794	1,581	1,254	1,038	(a)	(a)	
Pumice ..	10	2	4	5	6	(a)	(a)	
Millstones and grindstones ..	224	283	481	299	337	(a)	(a)	
United States—								
Corundum, crude ..	4,231	5,077	5,716	5,575	3,756	2,144	3,225	
Emery, crude ..	(a)	(a)	(a)	—	(a)	2,772	984	
Corundum and emery, ground ..	56	209	32	33	(a)	51	56	
Pumice, crude ..	60	29	36	—	(a)	6,973	7,567	
do. manufactured ..	a)							
Tripoli, etc. ..	206	5	3	33	(a)	74	(a)	
Grindstones ..	438	262	320	223	(a)	224	270	
Buhstones, hones, etc. . .	45	17	25	31	(a)	42	39	
Crude artificial abrasives	162,412	191,491	172,426	149,990	138,578	150,842	155,930	
Argentina—								
Emery ..	828	318	349	872	1,805	(a)	(a)	
Pumice ..	16	2	2	—	8	(a)	(a)	
Grindstones ..	164	212	41	214	239	(a)	(a)	
Oil stones ..	1	2	3	—	16	(a)	(a)	
Brazil—								
Millstones, grindstones, etc. . .	264	193	623	659	721	708	(a)	
Other abrasives ..	109	76	343	246	395	297	(a)	
Chile—								
Emery ..	39	36	83	57	25	(a)	(a)	
Pumice ..	2	—	4	3	—			
Tripoli ..	—	3	1	4	29			
Other abrasives ..	37	35	5	98	56			
Colombia—								
Emery and pumice ..	38	48	(a)	(a)	82	(a)	(a)	
Millstones and grindstones ..	3	44	(a)	(a)	20	(a)	(a)	
Peru—								
Emery and pumice ..	21	11	35	30	34	(a)	(a)	
Grindstones ..	28	35	60	70	52	(a)	(a)	
Venezuela—								
Emery and pumice ..	54	94	(a)	19	23	32	(a)	
Iraq—								
Emery, pumice, etc. ..	31	18	2	(a)	(a)	(a)	(a)	
Grindstones, whetstones, etc. . .	60	86	56	56	(a)	(a)	(a)	
Syria and Lebanon—								
Emery ..	8	20	—	50	101	(a)	(a)	
Millstones and grindstones ..	12	30	19	150	186	(a)	(a)	
Turkey—								
Emery and carborundum, crude ..	(a)	(a)	—	1	9	9	9	
Millstones and grindstones ..				166	204	170	214	483
Whetstones, etc. . .				—	—	—	19	6
Grinding powder ..				—	—	10	45	33

(a) Information not available.

**ALUMINIUM**  
(Including Bauxite and Cryolite)

PRODUCTION OF BAUXITE

(Long tons)

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
Northern Ireland .. ..	95,724	107,924	43,799	36,397	—	—	—
Gold Coast (b) .. ..	48,005	104,819	107,223	146,330	114,246	95,898	130,953
British Guiana—(c) 60% or more alumina ..	1,159,589	1,941,813	913,516	669,164	1,115,966	1,358,929	1,944,966
India .. .. .	18,258	24,160	12,135	13,893	16,405	18,537	20,663
Malaya .. .. .	(d) 100,000	(d) 100,000	(d) 100,000	(d) 100,000	—	—	—
Australia .. .. .	3,432	2,548	3,806	3,437	3,729	4,878	5,645
<b>TOTAL .. .. .</b>	<b>1,430,000</b>	<b>2,285,000</b>	<b>1,180,000</b>	<b>969,000</b>	<b>1,244,000</b>	<b>1,472,000</b>	<b>2,102,000</b>
<b>FOREIGN COUNTRIES</b>							
Austria .. .. .	(a)	(a)	19,530	(a)	—	—	4,830
France .. .. .	629,460	901,878	655,117	303,261	442,027	669,381	775,900
Germany .. .. .	16,000	25,000	25,000	(a)	(a)	(a)	(a)
Greece .. .. .	23,000	25,000	10,000	—	1,294	22,066	43,539
Hungary .. .. .	972,934	985,555	746,323	34,843	99,169	279,100	(g) 300,000
Italy .. .. .	485,474	281,000	40,000	25,000	64,413	165,070	150,728
Roumania .. .. .	14,700	12,400	(a)	(a)	(a)	(a)	(a)
Spain .. .. .	2,170	23,500	2,850	5,020	4,820	5,370	6,698
U.S.S.R. (estimated) ..	(e) 275,000	(e) 350,000	(e) 400,000	(e) 400,000	450,000	450,000	500,000
Yugoslavia .. .. .	236,000	200,000	150,300	(a)	(a)	(a)	(a)
Mozambique .. .. .	1,831	3,220	6,080	4,305	1,596	2,913	1,341
United States (f) .. ..	2,602,034	6,232,883	2,823,724	981,009	1,104,054	1,202,055	1,457,148
Brazil .. .. .	(b) 12,201	67,742	14,359	19,238	4,388	6,629	13,822
Dutch Guiana .. .. .	1,170,466	1,636,505	916,756	753,503	1,004,080	1,711,670	2,165,481
French Indo-China .. ..	12,600	—	350	—	—	—	—
Netherlands East Indies ..	(d) 341,000	(d) 341,000	(d) 341,000	(d) 341,000	100,000	—	430,986
<b>TOTAL (g) .. .. .</b>	<b>6,820,000</b>	<b>11,100,000</b>	<b>6,250,000</b>	<b>2,950,000</b>	<b>3,400,000</b>	<b>4,700,000</b>	<b>6,050,000</b>
<b>WORLD'S TOTAL (g)</b>	<b>8,250,000</b>	<b>13,400,000</b>	<b>7,430,000</b>	<b>3,920,000</b>	<b>4,650,000</b>	<b>6,170,000</b>	<b>8,150,000</b>

(a) Information not available.

(b) Exports.

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

	1942	1943	1944	1945	1946	1947	1948
Metallurgical ..	1,174,173	1,891,369	847,967	690,675	1,047,220	1,210,016	1,764,387
Chemical ..	12,238	—	19,635	33,176	37,597	24,572	31,754
Refractory ..	2,181	1,710	2,770	1,333	2,635	2,793	—
Abrasive ..	10,304	7,901	6,755	12,229	33,893	51,632	69,152

(d) Average annual production during Japanese occupation.

(e) U.S. Bureau of Mines.

(f) Dried bauxite equivalent.

(g) Estimated.

PRODUCTION (EXPORTS) OF CRYOLITE IN GREENLAND

Year	Long tons
1942	83,490
1943	45,720
1944	15,221
1945	18,403
1946	30,660
1947	39,910
1948	26,204

PRODUCTION OF ALUMINIUM  
(Long tons)

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom (b) ..	46,800	55,700	35,500	31,900	31,500	28,940	30,028
Canada .. .. .	304,104	442,634	412,558	192,600	172,679	267,019	327,749
India .. .. .	—	1,272	1,723	2,254	3,244	3,223	3,368
<b>TOTAL .. .. .</b>	<b>350,900</b>	<b>499,700</b>	<b>449,800</b>	<b>226,800</b>	<b>207,400</b>	<b>299,182</b>	<b>361,145</b>
<b>FOREIGN COUNTRIES</b>							
Austria .. .. .	34,000	44,000	39,311	5,131	1,016	4,476	12,814
France .. .. .	44,510	45,730	25,740	36,637	47,195	52,557	63,765
Germany .. .. .	225,700	202,000	200,000	(a)	(c) —	(c) —	(c) 7,191
Hungary (d) .. .. .	5,866	9,311	(a)	2,314	1,939	5,121	5,071
Italy .. .. .	42,853	45,462	16,531	4,278	10,461	24,668	32,560
Norway .. .. .	20,174	23,143	19,719	4,535	16,428	21,382	30,551
Spain .. .. .	730	784	203	531	991	984	515
Sweden .. .. .	1,274	3,515	3,664	3,185	3,510	2,846	3,227
Switzerland.. .. .	23,600	20,000	15,000	5,000	13,000	18,167	18,660
U.S.S.R. .. .. .	(d) 54,000	61,360	(d) 70,000	(d) 84,947	(f) 80,000	(f) 120,000	(f) 140,000
Yugoslavia .. .. .	2,000	2,000	1,000	(a)	(a)	(a)	(a)
United States (e) .. .. .	465,273	821,588	693,255	442,018	365,741	510,491	556,680
Formosa .. .. .	13,288	14,271	9,055	—	(a)	(a)	(a)
Japan .. .. .	74,170	94,946	107,794	16,192	3,142	2,657	6,855
Korea .. .. .	4,296	12,331	12,738	1,223	(a)	(a)	(a)
Manchuria .. .. .	7,319	10,000	8,000	3,200	(a)	(a)	(a)
<b>TOTAL .. .. .</b>	<b>1,020,000</b>	<b>1,410,000</b>	<b>1,233,000</b>	<b>640,000</b>	<b>550,000</b>	<b>770,000</b>	<b>880,000</b>
<b>WORLD'S TOTAL</b>	<b>1,371,000</b>	<b>1,910,000</b>	<b>1,683,000</b>	<b>860,000</b>	<b>760,000</b>	<b>1,070,000</b>	<b>1,240,000</b>

(a) Information not available.

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

1942	.. .. .	78,800 long tons
1943	.. .. .	93,500 " "
1944	.. .. .	104,500 " "
1945	.. .. .	81,000 " "
1946	.. .. .	74,900 " "
1947	.. .. .	97,600 " "
1948	.. .. .	80,165 " "

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

1946	.. .. .	17,500 long tons
1947	.. .. .	18,531 " "
1948	.. .. .	34,318 " "

(d) U.S. Bureau of Mines.

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

1942	.. .. .	177,225 long tons
1943	.. .. .	280,322 " "
1944	.. .. .	290,754 " "
1945	.. .. .	266,417 " "
1946	.. .. .	248,279 " "
1947	.. .. .	307,890 " "
1948	.. .. .	256,051 " "

(f) Estimated.

EXPORTS OF ALUMINIUM, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948							
<b>BRITISH COUNTRIES</b>														
United Kingdom—														
Alumina .. .. .	331	249	107	901	8,926	6,473	3,841							
Ingots, etc., including alloyed .. .. .	1	7	25	3,292	5,231	6,016	6,543							
Sheets, tubes, etc., including alloyed .. .. .	177	115	72	3,030	17,465	22,242	47,067							
Foil and alloyed .. .. .	25	20	23	104	1,787	2,311	3,046							
Scrap, including alloyed .. .. .	—	—	—	258	8,286	507	(a)							
Aluminium sulphates .. .. .	16,729	16,426	19,623	20,415	34,298	29,648	38,695							
Gold Coast—														
Bauxite .. .. .	48,005	104,819	107,223	146,330	114,246	95,898	130,953							
Southern Rhodesia—														
Ingots, blocks and rods .. .. .	—	96	—	40	67	52	9							
Canada—														
Blocks, bars, and ingots .. .. .	} 280,789	} 335,164	} 263,595	} 341,327	} 167,264	} 190,818	} 292,060							
Sheets, rods, etc. .. .. .								2,790	1,688	2,186	3,481	5,507		
Scrap .. .. .								2	90	1,609	5,819	5,766	9,644	20,393
Wire .. .. .								(£2,648)	(£468)	(£13,370)	(£235,909)	(£287,598)	(£627,773)	(£1,370,092)
Jamaica—														
Bauxite .. .. .	—	(£3,015)	—	(50 lbs.)	—	—	—							
British Guiana—														
Bauxite .. .. .	1,116,463	1,901,393	873,969	738,544	1,120,015	1,290,367	1,873,166							
India—														
Bauxite .. .. .	700	—	800	470	1,040	281	(a)							
Malaya (including re-exports)—														
Bauxite .. .. .	} (a)	} (a)	} (a)	} (a)	} —	} —	} —							
Bars, sheets and strips .. .. .								4	57	253				
Aluminium sulphates .. .. .								911	1,334	1,706				
Australia—														
Bauxite .. .. .	(a)	(a)	(a)	(a)	36	151	134							
Aluminium .. .. .	(£A11)	(£A18)	(£A941)	—	242	1,694	4,563							
Aluminium sulphates .. .. .	—	101	88	234	385	281	134							
<b>FOREIGN COUNTRIES</b>														
Austria—														
Alumina .. .. .	} (a)	} (a)	} (a)	} (a)	} (a)	} 1,362	} 903							
Crude, including alloys .. .. .								3,097	14,839					
Scrap .. .. .								—	1,159					
Sheets, rods, wire, foil, etc. .. .. .								35	—					
Belgium-Luxemburg E.U.—														
Bauxite, etc. .. .. .	—	—	—	(a)	(a)	(a)	—							
Alumina and hydrates .. .. .	—	9	5	(a)	(a)	(a)	4							
Crude and scrap .. .. .	38	154	73	(a)	(a)	(a)	(a)							
Sheets, wire, etc. .. .. .	231	889	570	(a)	(a)	(a)	(a)							
Aluminium sulphates .. .. .	—	576	669	(a)	(a)	(a)	6,593							
Czechoslovakia—														
Crude and scrap .. .. .	(a)	(a)	(a)	(a)	—	137	(b) 1,255							
Bars, sheets, rods and wire .. .. .	(a)	(a)	(a)	(a)	6	70	(b) 2							
Denmark—														
Refined cryolite .. .. .	1,431	1,372	343	96	8,490	12,503	18,639							
Crude .. .. .	9	} 6	} 3	} 15	52	71	41							
Scrap .. .. .	13				—	317	686	309						
Sheets, wire and foil .. .. .	2				—	—	3	1						

(a) Information not available.

(b) January to October only.

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

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
France—							
Bauxite .. .. .	228,095	443,977	288,589	1,038	47,741	83,109	114,645
Alumina .. .. .	59,842	41,082	24,162	9,551	30,765	67,267	71,821
Aluminium hydrates .. .. .	9,145	11,972	2,318	1,077	3,217	6,987	3,271
Cryolite, artificial .. .. .	1,389	2,130	445	—	34	44	(a)
Ingots .. .. .	6,832	14,361	1,228	492	1,719	1,277	1,204
Scrap .. .. .							
Sheets, wire, etc. .. .. .	1,802	887	204	170	1,927	3,527	2,396
Aluminium sulphates .. .. .	2,264	472	382	1,295	2,727	3,089	3,067
Germany—							
Bauxite and cryolite .. .. .	322	21,641	(b) 7,091	(a)	(a)	(a)	(a)
Crude, scrap and alloys .. .. .	17,730	12,668	(b) 3,549				
Sheets, wire, castings, etc. .. .. .	9,877	9,810	(b) 3,666				
Foil .. .. .	1,041	848	(b) 271				
Aluminium sulphates, etc. including refined bauxite	26,953	52,455	(b) 27,350				
Greece—							
Bauxite .. .. .	(a)	(a)	(a)	—	—	5,905	(a)
Hungary—							
Bauxite .. .. .	1,012,749	882,716	681,336	704	8,914	52,551	(a)
Italy—							
Bauxite .. .. .	112,200	88,579	(a)	—	492	—	—
Alumina .. .. .	33,069	16,436	(a)	—	5,315	125	—
Aluminium hydrates .. .. .	(a)	(a)	(a)	(a)	(a)	10,637	21,671
Crude, scrap and alloyed .. .. .	10	827	8,297	—	679	1,625	18,810
Aluminium sulphates .. .. .	(a)	(a)	(a)	(a)	(a)	796	209
Netherlands—							
Crude and alloys .. .. .	800	987	(a)	(a)	5	126	220
Scrap .. .. .	207	510	(a)	(a)	190	1,093	3,479
Foil .. .. .	—	—	(a)	(a)	3	10	23
Norway—							
Alumina .. .. .	290	—	—	8	37	157	41
Ingots .. .. .	17,400	20,905	17,224	2,796	9,469	16,337	21,541
Scrap .. .. .	25	25	159	282	746	599	422
Bars, sheets, tubes and wire .. .. .	181	491	764	81	556	891	1,193
Sweden—							
Crude, sheets and strips .. .. .	26	27	7	68	23	27	47
Scrap .. .. .	19	18	34	84	98	158	84
Aluminium sulphates .. .. .	8,277	4,061	2,590	6,359	11,473	8,140	6,915
Switzerland—							
Blocks, ingots, etc., and scrap .. .. .	9,258	8,479	1,489	25	396	964	10,617
do. (alloys) .. .. .	1,782	805	2,156	103	395	155	1,282
Bars, sheets, tubes and wire .. .. .	297	641	479	157	3,038	4,632	3,684
do. (alloys) .. .. .	4,272	1,670	1,672	37	610	1,381	1,094
Yugoslavia—							
Bauxite .. .. .	(c) 178,000	(c) 124,000	(a)	(a)	(a)	(a)	(a)
Algeria—							
Ingots and scrap .. .. .	24	—	1	4	—	—	401
Mozambique—							
Bauxite .. .. .	—	—	1,240	9,666	1,032	2,412	748
Greenland—							
Cryolite .. .. .	83,490	45,720	15,221	18,403	30,660	39,910	(a)
Haiti—							
Bauxite .. .. .	(a)	(a)	(a)	—	300	—	(a)

(a) Information not available.

(b) January to July only.

(c) Imports into Germany from Yugoslavia.

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

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
United States—							
Bauxite, etc. . . . .	260,600	417,186	146,638	126,067	97,788	94,369	54,113
Cryolite, natural . . . .	233	2,287	606	1,299	} 1,574	{ 836	637
do. artificial . . . . .	146	383	335	398			295
Ingots and alloys . . . . .	15,924	50,675	118,829	2,026	988	10,802	1,107
Scrap . . . . .	29	13	369	716	572	703	390
Plates, sheets, bars, etc. . .	18,672	54,360	49,124	3,242	13,917	44,852	62,674
Foil . . . . .	115	514	1,449	1,167	1,620	4,339	1,765
Aluminium sulphates . . . .	39,668	33,880	36,994	33,904	33,890	20,883	12,805
Brazil—							
Bauxite . . . . .	12,201	75,549	2,932	6,949	1,143	702	11,808
Dutch Guiana—							
Bauxite . . . . .	1,208,125	1,636,505	633,886	679,050	839,146	1,769,433	2,131,305
China—							
Aluminium sulphates . . . .	(a)	(a)	(a)	(a)	1,544	1,123	605
Formosa—							
Crude (b) . . . . .	12,301	14,269	9,056	(a)	(a)	(a)	(a)
French Indo-China—							
Bauxite (b) . . . . .	15,695	2,411	—	—	—	—	—
Korea—							
Crude (b) . . . . .	4,297	12,331	12,739	(a)	(a)	(a)	(a)
Manchuria—							
Crude (b) . . . . .	1,968	2,953	4,139	(a)	(a)	(a)	(a)
Netherlands East Indies—							
Bauxite . . . . .	(b) 292,998	(b) 639,298	(b) 270,267	(a)	—	88,166	443,105

(a) Information not available.

(b) Imports into Japan from the country concerned.

IMPORTS OF ALUMINIUM, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Bauxite .. .. .	47,759	241,796	172,146	162,561	156,972	163,726	308,344
Cryolite .. .. .	4,935	1,597	85	844	1,444	1,587	(a)
Alumina .. .. .	35	—	2,973	(b) 1	101	5	—
Ingots, etc., including alloyed .. .. .	131,649	213,014	149,692	21,148	80,646	95,860	139,084
Sheets, tubes, etc., including alloyed .. .. .	4,389	23,247	27,272	(b) 5,310	(b) 611	95	8
Foil and alloyed .. .. .	—	2,276	10,160	1,745	28	422	222
Scrap, including alloyed .. .. .	50	100	153	3	23	1,943	3,516
Kenya and Uganda—							
Sheets and wire .. .. .	—	—	—	10	115	655	2,754
Southern Rhodesia—							
Ingots, bars, sheets and foil .. .. .	10	—	9	36	112	892	1,526
Tanganyika Territory—							
Sheets, strips and wire .. .. .	—	—	—	2	3	542	691
Union of South Africa—							
Ingots, bars, sheets, wire and foil .. .. .	52	28	44	308	1,277	(a)	(a)
Aluminium sulphates .. .. .	397	101	78	68	703	(a)	(a)
Canada—							
Bauxite .. .. .	1,168,346	2,688,008	1,185,737	839,029	1,145,693	1,243,476	1,793,298
Cryolite .. .. .	22,652	20,023	2,249	3,556	2,532	6,481	5,974
Alumina .. .. .	70	79	109	285	162	165	132
Ingots, rods, sheets .. .. .	1,286	1,956	3,024	1,030	4,149	4,264	2,880
Scrap .. .. .	3	69	204	286	521	113	185
Leaf and foil .. .. .	(£686)	(£686)	(£10,752)	(£15,604)	(£23,080)	(£126,725)	(£41,056)
Aluminium sulphates .. .. .	37,315	34,307	31,597	31,607	24,752	4,664	2,347
Newfoundland (c)—							
Sheets, plates, foil, etc. .. .. .	(d) (£730)	(£2,272)	35	4	8	28	36
Aluminium sulphates .. .. .	(a)	(a)	957	982	1,098	227	1,589
Aden—							
Aluminium sulphates .. .. .	—	—	—	4	9	11	(a)
India—							
Ingots, blocks, bars, etc. .. .. .	13	—	245	3,014	7,345	3,368	830
Sheets and circles .. .. .	72	1	—	1,799	2,685	6,692	6,023
Aluminium sulphates .. .. .	1,099	1,652	5,325	1,710	857	2,743	810
Malaya (total imports)—							
Bars, sheets and strips .. .. .	(a)	(a)	(a)	(a)	245	1,286	2,363
Aluminium sulphates .. .. .	(a)	(a)	(a)	(a)	2,062	1,734	2,228
Ceylon—							
Foil .. .. .	—	—	—	—	336	472	421
Palestine—							
Ingots and sheets .. .. .	—	—	—	13	312	(a)	(a)
Foil .. .. .	1	—	—	4	84	(a)	(a)
Australia—							
Bauxite .. .. .	(a)	(a)	(a)	(a)	—	—	10
Cryolite .. .. .	10	12	11	29	26	74	23
Pigs, ingots, blocks and scrap .. .. .	4,792	3,648	4,480	7	1,811	4,219	4,726
Sheets, wire, rods, etc. .. .. .	1,877	5,131	1,006	96	156	308	1,438
Pipes and tubes (£ Aust.) .. .. .	(£55,288)	(£22,402)	(£46,564)	(£63,970)	(£201,389)	(£235,878)	£18,314
Aluminium sulphates .. .. .	1	1	22	—	28	(b) 21	93

(a) Information not available.

(b) Excess of re-exports.

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

(d) Nine months ended March 31, 1943.

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES (Cont.)</b>							
New Zealand—							
Bars, sheets, tubes, wire, etc. . . . .	26	44	9	50	135	523	2,277
Irish Republic—							
Ingots, sheets and foil ..	—	1	—	284	731	1,412	672
Aluminium sulphates ..	(a)	(a)	(a)	(a)	(a)	1,766	1,500
<b>FOREIGN COUNTRIES</b>							
<b>Austria—</b>							
Cryolite .. .. .						21	475
Alumina .. .. .						13,385	23,309
Aluminium hydrates ..						13,917	28,610
Crude, scrap and alloys ..	(a)	(a)	(a)	(a)	(a)	27	50
Sheets, rods, wire, etc. ..						134	518
Foil .. .. .						7	—
Aluminium sulphates ..						2,295	2,662
<b>Belgium-Luxemburg E.U.—</b>							
Bauxite .. .. .	703	548	319	(a)	(a)	(a)	1,922
Alumina .. .. .	81	21	70	(a)	(a)	(a)	4,515
Aluminium hydrates ..	578	368	298	(a)	(a)	(a)	5,392
Crude .. .. .	3,335	1,442	1,052	(a)	(a)	(a)	1,215
Scrap .. .. .	178	1,111	86	(a)	(a)	(a)	896
Sheets, etc. .. .. .	1,451	302	76	(a)	(a)	(a)	240
Aluminium sulphates ..							
<b>Bulgaria—</b>							
Crude, bars and sheets ..	319	24	3	220	222	(a)	(a)
Aluminium sulphates ..	960	1,244	76	158	372	(a)	(a)
<b>Czechoslovakia—</b>							
Bauxite .. .. .	(a)	(a)	(a)	(a)	1,353	2,353	(b) 5,586
Cryolite .. .. .	(a)	(a)	(a)	(a)	256	449	(b) 138
Alumina .. .. .	(a)	(a)	(a)	(a)	—	1,835	(b) 1,403
Crude and scrap .. .. .	(a)	(a)	(a)	(a)	973	7,446	(b) 10,876
Aluminium sulphates ..	(a)	(a)	(a)	(a)	107	325	(b) 165
<b>Denmark—</b>							
Crude cryolite .. .. .	—	—	—	3,113	20,827	21,211	24,013
Crude .. .. .	1,153	1,567	1,188	1,246	2,235	3,061	2,527
Scrap .. .. .	37	42	238	251	65	107	208
Bars, sheets, plates and wire .. .. .	100	74	146	205	1,654	2,108	1,383
Leaf .. .. .	78	68	107	34	307	300	256
Aluminium sulphates ..	2,653	2,206	1,608	1,036	1,760	2,447	2,977
<b>Finland (total imports)—</b>							
Crude .. .. .	255	72	150	12	440	478	508
Bars and sheets .. .. .	515	443	284	103	352	681	1,700
Aluminium sulphates ..	7,881	7,556	3,502	3,310	6,906	9,362	6,662
<b>France—</b>							
Bauxite .. .. .	—	20	(a)	16	11	611	—
Cryolite .. .. .	1,520	—	—	—	2,376	59	3,008
Alumina .. .. .	2	2	1	428	893	5	213
Aluminium hydrates ..	—	—	9	246	360	—	—
Cryolite, artificial ..	5	11	1	—	354	—	(a)
Ingots .. .. .	961	44	458	1,077	11,078	25 831	25,389
Scrap .. .. .	498	515	414	300	1,776	3,890	(a)
Sheets, wire, etc. .. .. .	119	5	(a)	3	1	931	176
Aluminium sulphates ..						—	10

(a) Information not available.

(b) January to October.



IMPORTS OF ALUMINIUM, ETC. (Cont.)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
<b>Germany—</b>							
Bauxite and cryolite ..	1,484,396	1,510,611	(b) 878,869	} (a)	(a)	(a)	(a)
Crude, scrap and alloys	35,024	35,650	(b) 20,962				
Sheets, wire, castings, etc.	12,632	5,699	(b) 4,336				
Aluminium sulphates, etc. including refined bauxite .. .. .	34,679	39,461	(b) 18,626				
<b>Greece—</b>							
Aluminium .. .. .	(a)	(a)	(a)	10	295	579	(a)
Foil .. .. .	(a)	(a)	(a)	—	35	185	(a)
<b>Iceland—</b>							
Aluminium sulphates ..	1	3	2	8	11	(a)	(a)
<b>Italy—</b>							
Bauxite .. .. .	492	—	(a)	—	7,670	27,042	117,672
Alumina .. .. .	—	—	(a)	—	1,476	—	—
Crude, scrap and alloys	11,200	7,096	276	—	20	6,266	8,867
<b>Netherlands—</b>							
Bauxite .. .. .	261	689	} (a)	(a)	} (a)	} (a)	} (a)
Crude and alloys .. .. .	1,228	1,359					
Foil .. .. .	91	145					
Aluminium sulphates ..	4,224	2,619					
<b>Norway—</b>							
Bauxite .. .. .	26,809	40,794	28,107	—	6,991	28,310	39,238
Cryolite .. .. .	1,206	1,193	1,909	12	644	1,891	2,605
Alumina .. .. .	28,901	26,078	15,015	—	17,217	35,159	45,184
Crude .. .. .	5	1	—	—	—	492	238
Bars, sheets, etc. ..	785	630	41	1	145	1,324	611
Aluminium sulphates ..	3,270	1,778	2,133	2,502	5,273	7,821	5,981
<b>Poland—</b>							
Bauxite .. .. .	(a)	(a)	(a)	757	8,027	14,021	(a)
Crude, scrap, sheets and wire .. .. .	(a)	(a)	(a)	—	2,266	4,082	(a)
<b>Portugal—</b>							
Cryolite .. .. .	—	—	15	73	34	26	33
Powder .. .. .	19	45	19	36	37	54	74
Aluminium and alloys ..	47	123	325	295	964	1,495	807
Aluminium sulphates ..	620	502	548	700	1,098	991	673
<b>Spain—</b>							
Alumina .. .. .	1,133	1,823	—	1,133	2,182	2,063	2,370
Ingots and scrap .. .. .	110	629	1,426	1,922	2,028	2,802	2,106
Sheets, tubes and wire ..	11	40	5	610	28	43	14
Aluminium sulphates ..	381	221	108	36	25	14	4
<b>Sweden—</b>							
Bauxite .. .. .	9,767	17,652	5,158	—	16,634	27,642	19,785
Cryolite (incl. artificial)..	209	280	287	64	688	496	313
Alumina .. .. .	510	1,168	—	3,010	1,782	2,797	6,925
Crude .. .. .	1,279	2,883	1,056	2,274	7,916	9,612	13,350
Scrap .. .. .	17	10	30	382	2,381	1,502	1,315
Sheets, tubes and wire ..	95	399	312	104	2,561	3,923	4,768
Aluminium sulphates ..	4	5	17	7	227	852	167
<b>Switzerland—</b>							
Alumina, etc. .. .. .	49,663	39,478	9,760	14,286	25,948	44,750	45,327
Blocks, ingots, etc., and scrap .. .. .	122	240	3	7,486	7,866	7,048	6,921
do. (alloyed).. .. .	929	90	24	64	13	173	235
Bars, sheets, tubes and wire .. .. .	6	—	2	21	432	1,124	276
do. (alloyed).. .. .	8	18	6	223	55	122	167
Aluminium sulphates ..	412	204	156	220	351	322	243

(a) Information not available.

(b) January to July only.

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Algeria—							
Bauxite .. .. .	39	—	—	—	28	1,598	(a)
Ingots, sheets, wire, etc.	316	72	185	583	533	758	183
Aluminium sulphates ..	164	88	30	185	212	223	401
Egypt—							
Bars, sheets, tubes and wire .. .. .	—	—	1	43	239	117	329
Foil .. .. .	4	—	—	—	130	104	334
Aluminium sulphates ..	4,191	2,192	2,402	4,565 (b)	741	106	327
Madagascar—							
Aluminium sulphates ..	(a)	(a)	(a)	(a)	44	36	27
Mozambique—							
Bars, sheets, wire ..	—	1	1	3	13	103	210
Tunisia—							
Ingots and scrap ..	11	11	—	101	147	393	9
Aluminium sulphates ..	55	—	8	168	100	105	60
Costa Rica—							
Bars, sheets, foil, etc. ..	(a)	1	6	—	305	740	207
Cuba (total imports)—							
Aluminium sulphates ..	1,613	1,669	2,042	2,559	(a)	(a)	(a)
Mexico—							
Alumina .. .. .	270	14	176	470	489	(a)	(a)
Ingots, bars and sheets ..	481	50	312	1,200	3,069	(a)	(a)
Aluminium sulphates ..	824	546	1,142	867	924	(a)	(a)
United States—							
Bauxite, crude .. .. .	884,217	1,547,854	560,461	739,581	852,005	1,821,580	2,488,915
Refined bauxite .. .. .	21,711	12,372	—	180	4	(a)	(a)
Cryolite .. .. .	64,565	46,400	15,534	17,952	10,200	19,650	2,101
Crude and alloys .. .. .	94,873	120,791	89,567	296,819	37,042	13,910	74,254
Scrap .. .. .	22	215	1,593	4,615	(a)	14,034	64,055
Sheets, bars, etc. ..	5,228	50	578	1,500	1,000	28	5,344
Foil (c) .. .. .	—	—	3	90	(a)	34	6,615
Aluminium sulphates ..	—	69	—	—	(a)	72	4,962
Argentina—							
Bauxite .. .. .	4,927	224	1,240	1,680	2,065	(a)	(a)
Ingots, sheets and wire ..	—	—	23	1,384	2,591	(a)	(a)
Aluminium sulphates ..	2,004	475	333	1,581	3,910	(a)	(a)
Brazil (total imports)—							
Cryolite .. .. .	10	29	257	111	132	77	(a)
Bars, sheets and wire ..	89	480	1,750	2,965	2,968	5,664	6,667
Scrap .. .. .	—	—	210	544	1,053	527	(a)
Aluminium sulphates ..	879	815	1,822	1,524	3,127	3,488	(a)
Chile—							
Bars and sheets .. .. .	18	2	24	160	458	(a)	(a)
Aluminium sulphates ..	34	111	634	849	358	(a)	(a)
Colombia—							
Ingots, bars, sheets, etc.	12	14	8	(a)	1,119	(a)	(a)
Aluminium sulphates ..	1,635	2,663	1,704	(a)	2,074	(a)	(a)
Peru—							
Ingots .. .. .	3	8	(a)	26	30	(a)	(a)
Aluminium sulphates ..	274	294	580	463	1,142	(a)	(a)
Uruguay—							
Ingots, sheets, etc. ..	(a)	6	136	(a)	(a)	(a)	(a)
Aluminium sulphates ..	(a)	358	1,337	(a)	(a)	(a)	(a)
Venezuela—							
Crude .. .. .	—	—	(a)	47	224	143	(a)
Aluminium sulphates ..	40	685	(a)	227	528	676	(a)

(a) Information not available.

(b) Alum only.

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

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948	
<b>FOREIGN COUNTRIES (Cont.)</b>								
China—								
Sheets and wire ..	}	(a)	(a)	(a)	}	3,559	4,484	(a)
Foil, including interleaved with paper ..						673	1,190	(a)
Iran (b)—								
Ingots, sheets, scrap, etc.	—	3	(a)	(a)	311	214	(a)	
Aluminium sulphates ..	—	—	(a)	(a)	103	68	(a)	
Iraq—								
Bars, sheets, wire, etc. ..	1	—	—	—	(a)	(a)	(a)	
Aluminium sulphates ..	433	244	552	76	(a)	(a)	(a)	
Japan (c)—								
Bauxite .. ..	504,016	910,164	337,947	1,775	2,830	—	94,200	
Ingots, blocks, etc. ..	19,550	29,553	25,933	(a)	(a)	(a)	(a)	
Syria and Lebanon—								
Aluminium sulphates ..	38	66	28	97	234	(a)	(a)	
Turkey—								
Bars, sheets, wire and alloys .. ..	(a)	(a)	20	73	133	454	243	
Aluminium sulphates ..	(a)	(a)	770	1,525	764	1,562	1,188	

(a) Information not available.

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

(c) Including Formosa for the years 1942 to 1945.

# ANTIMONY

## PRODUCTION OF ANTIMONY ORE

(In terms of metal)

(Long tons)

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
Southern Rhodesia (b) ..	193	187	132	34	17	87	10
Union of South Africa ..	1,051	1,663	2,766	2,408	2,485	3,250	4,040
Canada (c) .. .. .	—	—	—	—	—	—	—
Burma (estimated) .. ..	(d) 830	(d) 830	(d) 830	(d) 830	—	(a) 40	(a)
India .. .. .	100	140	340	290	200	(a)	(a)
Sarawak .. .. .	—	—	—	—	—	—	3
Australia (e) .. .. .	1,115	569	486	184	530	170	187
New Zealand .. .. .	—	—	—	—	—	—	(f) 5
<b>FOREIGN COUNTRIES</b>							
Austria .. .. .	629	1,027	1,060	272	35	99	265
Czechoslovakia (h) ..	(f) 3,081	(a)	(a)	1,097	2,122	1,411	1,568
France .. .. .	(a)	163	124	163	217	198	324
Italy .. .. .	650	600	470	370	440	500	480
Portugal .. .. .	133	57	35	3	3	25	40
Spain (f) .. .. .	200	110	120	90	110	55	90
Algeria .. .. .	325	965	182	453	—	118	840
Morocco (French) ..	344	438	177	378	250	413	443
do. (Spanish) .. .. .	160	150	167	52	120	169	240
Honduras .. .. .	110	190	114	(a)	(a)	(a)	—
Mexico .. .. .	11,491	13,466	10,758	8,614	6,468	6,816	7,264
United States (g) ..	2,629	4,961	4,228	1,723	2,237	4,746	5,794
Argentina .. .. .	44	67	(a)	(a)	(a)	(a)	(a)
Bolivia (exports) ..	17,364	17,689	7,330	5,448	6,854	10,686	12,066
Peru .. .. .	1,559	2,639	1,041	2,265	1,194	1,272	1,610
China .. .. .	4,400	497	200	—	956	(a)	(a)
French Indo-China ..	1	12	30	—	—	—	—
Japan .. .. .	108	299	453	419	61	94	133
Siam .. .. .	—	24	58	44	—	112	105
Turkey .. .. .	640	10	60	40	40	120	620

Antimony ore is also produced in the U.S.S.R. and Yugoslavia.

(a) Information not available.

(b) Revised.

(c) The following figures represent metal recovered as a by-product from flue dust up to and including 1944 and the antimony content of antimonial lead from 1945 (long tons): 1942—1,358; 1943—497; 1944—865; 1945—745; 1946—287; 1947—513; 1948—138.

(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 during the years ended June 30 of that stated, was as follows: (long tons): 1942—591; 1943—771; 1944—379; 1945—386; 1946—540; 1947—149; 1948—131.

(f) Estimated.

(g) Secondary metal was recovered as follows (long tons): 1942—16,250; 1943—13,824; 1944—14,184; 1945—15,311; 1946—17,067; 1947—20,522; 1948—19,279.

(h) United States Bureau of Mines.

EXPORTS OF ANTIMONY, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom—							
Regulus, etc. . . . .	78	113	283	774	489	357	660
Southern Rhodesia—							
Ore . . . . .	276	296	238	52	26	105	5
Union of South Africa—							
Ore . . . . .	(a)	(a)	4,148	4,255	4,156	5,703	6,422
Burma—							
Ore . . . . .	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Hong Kong (re-exports)—							
Crude and regulus . . .	(a)	(a)	(a)	(a)	1,159	4,988	1,435
India—							
Ore . . . . .	2	—	—	—	—	(a)	(a)
Sarawak—							
Ore . . . . .	(a)	(a)	(a)	(a)	—	—	2
Australia—							
Ore and concentrates . .	(b) (c) 176	(b) —	(b) 4	628	95	113	—
Antimony and alloys (£ Aust.) . . . . .	(£11,003)	(£23,111)	(£8,610)	(£4,518)	(£74,594)	(£3,973)	(£22,691)
<b>FOREIGN COUNTRIES</b>							
Austria—							
Ore . . . . .	(a)	(a)	(a)	(a)	(a)	148	365
Belgium-Luxemburg E.U.—							
Ore . . . . .	466	271	—	(a)	(a)	(a)	(a)
Regulus . . . . .	484	436	145	(a)	(a)	(a)	1,714
Czechoslovakia—							
Regulus . . . . .	(a)	(a)	(a)	(a)	738	269	(e) 989
Denmark—							
Regulus . . . . .	—	—	5	—	—	49	13
France—							
Crude and regulus . . .	133	20	11	8	17	14	(a)
Oxide, sulphide, etc. . .	21	3	1	—	4	3	3
Germany—							
Ore, including arsenical ores . . . . .	975	1,481	(d) 1,790	} (a)	(a)	(a)	(a)
Regulus and scrap . . .	252	289	(d) 87				
Oxide, etc. . . . .	220	162	(d) 39				
Italy—							
Regulus . . . . .	—	—	—	—	46	13	152
Netherlands—							
Regulus and scrap . . .	—	—	—	(a)	—	8	24
Portugal—							
Ore . . . . .	105	246	94	136	2	18	69
Spain—							
Regulus . . . . .	—	35	142	15	20	5	—
Sweden—							
Crude . . . . .	7	3	—	3	13	44	16
Regulus . . . . .	—	—	—	—	5	11	3

- (a) Information not available.
- (b) Years ended June 30 of that stated.
- (c) *Sb content.*
- (d) January to July only.
- (e) January to October only.

## EXPORTS OF ANTIMONY, ETC. (Cont.)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Algeria—							
Ore .. .. .	(a)	(a)	83	443	147	—	1,445
Morocco (French)—							
Ore .. .. .	302	6	229	841	606	1,150	(a)
Morocco (Spanish)—							
Ore .. .. .	(a)	(a)	320	100	231	—	(a)
Honduras—							
Ore ( <i>Sb content</i> ) ..	11	175	70	(a)	(a)	(a)	10
Mexico—							
Ore .. .. .	31,037	31,941	27,931	21,423	16,936	19,763	26,864
Concentrates .. ..	536	1,308	381	543	137	102	(a)
Regulus .. .. .	267	955	620	31	73	107	(a)
<i>Sb content</i> (b) ..	11,105	12,396	10,115	7,878	5,906	(a)	(a)
United States—							
Ore .. .. .	—	1	44	222	3	691	61
Metal .. .. .	32	259	622	74	410	249	230
Oxide and sulphide ..	173	137	411	107	(a)	(a)	(a)
Bolivia—							
Ore ( <i>Sb content</i> ) ..	17,364	17,689	7,330	5,448	6,854	10,686	12,066
Peru—							
Ore and metal ( <i>Sb content</i> )	1,421	2,342	977	2,231	1,079	1,029	1,336
China—							
Crude .. .. .	76	—	—	—	—	49	376
Regulus .. .. .	—	—	—	—	4,658	8,390	4,249
Oxide .. .. .	—	—	—	—	—	3	(a)
Japan—							
Regulus ( <i>Sb content</i> ) ..	3	2	—	—	(a)	236	(a)
Turkey—							
Ore .. .. .	(a)	(a)	—	—	120	295	1,497

(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	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom—							
Ore .. .. .	12,036	9,214	9,366	9,470	10,470	12,215	14,791
Crude and regulus ..	—	—	—	—	477	105	10
Southern Rhodesia—							
Crude and regulus ..	—	12	9	4	1	16	5
Union of South Africa—							
Crude and regulus ..	15	52	273	196	55	(a)	(a)
Canada—							
Regulus .. .. .	—	107	696	462	831	1,286	488
Hong Kong (total imports)—							
Ore .. .. .	(a)	(a)	(a)	(a)	—	19	2,142
Crude and regulus ..						4,470	
Australia—							
Ore .. .. .	—	—	—	40	411	1,127	1,062
Crude and regulus ..	—	—	—	—	—	3	1
Sulphide .. .. .	—	—	—	—	—	1	—
New Zealand—							
Antimony .. .. .	59	121	130	—	—	66	163
<b>FOREIGN COUNTRIES</b>							
Austria—							
Regulus .. .. .	(a)	(a)	(a)	(a)	(a)	81	70
Belgium-Luxemburg E.U.—							
Ore .. .. .	22	—	—	(a)	(a)	(a)	(a)
Regulus .. .. .	6	1	—	(a)	(a)	(a)	35
Denmark—							
Regulus .. .. .	9	38	6	39	192	254	231
France—							
Ore .. .. .	1,019	—	(a)	1,267	1,411	2,354	(a)
Crude and regulus ..	—	1	(a)	418	716	2,095	(a)
Oxide and sulphide ..	—	—	(a)	—	16	20	(a)
Germany—							
Ore and matte .. ..	1,385	102	(b) 25	(a)	(a)	(a)	(a)
Regulus and scrap ..	2,158	2,880	(b) 1,259				
Oxide, etc. .. .. .	160	90	(b) 2				
Italy—							
Regulus .. .. .	391	186	2	—	96	75	38
Oxide .. .. .	22	2	(a)	—	10	36	12
Netherlands—							
Regulus and scrap ..	5	37	(a)	(a)	370	663	332
Norway—							
Regulus .. .. .	8	12	4	23	115	50	136
Portugal—							
Crude and alloys ..	(a)	20	9	9	17	31	25
Sulphide .. .. .	—	—	(a)	10	14	2	1
Spain—							
Antimony .. .. .	—	—	—	—	—	—	—
Sulphide .. .. .	—	4	—	3	15	2	7
Sweden—							
Crude .. .. .	—	—	—	14	119	75	63
Regulus .. .. .	46	199	51	20	321	300	366
Switzerland—							
Regulus .. .. .	109	35	39	46	290	368	249

(a) Information not available.

(b) January to July only.

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Algeria—							
Regulus .. .. .	—	—	—	12	36	13	6
Tunis—							
Regulus and sulphide ..	11	6	100	9	8	4	13
Mexico—							
Oxide and sulphide ..	28	17	62	46	50	(a)	(a)
United States—							
Ore ( <i>Sb content</i> ) ..	18,702	25,674	15,250	20,217	5,271	8,288	12,558
Regulus, crude, etc. ..	580	833	262	560	2,315	5,264	3,312
Oxide and sulphide ..	—	(a)	(a)	(a)	(a)	(a)	(a)
Argentina—							
Ore .. .. .	622	189	378	527	761	(a)	(a)
Regulus and crude ..	208	6	16	—	3	(a)	(a)
Brazil—							
Metal .. .. .	149	420	210	65	223	386	(a)
Oxide .. .. .	(a)	(a)	(a)	13	56	62	(a)
Sulphide .. .. .	(a)	(a)	(a)	42	209	98	(a)
Chile—							
Regulus .. .. .	161	208	73	41	115	(a)	(a)
Oxide and sulphide ..	—	7	25	13	1	(a)	(a)
Peru—							
Regulus and sulphides ..	1	—	2	9	7	(a)	(a)
Uruguay—							
Regulus .. .. .	(a)	5	—	(a)	(a)	(a)	(a)
Japan—							
Ore and metal ( <i>Sb content</i> )	290	6	90	—	(a)	(a)	(a)
Turkey—							
Regulus .. .. .	(a)	(a)	3	3	11	4	10

(a) Information not available.



**ARSENIC**  
**PRODUCTION OF ARSENIC**  
(Long tons)

Producing Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
Great Britain—							
White arsenic and arsenic soot .. .. .	73	123	139	115	145	90	(a)
Southern Rhodesia—							
White arsenic .. .. .	172	1,654	844	436	212	409	279
Union of South Africa—							
White arsenic .. .. .	—	—	—	45	8	2	9
Canada—							
White arsenic .. .. .	(b) 6,682	1,408	1,173	913	333	352	519
India—							
Orpiment .. .. .	—	—	—	8	—	—	—
Pakistan—							
Orpiment .. .. .	(c)	(c)	(c)	(c)	36	—	—
Australia—							
White arsenic .. .. .	2,481	2,336	2,339	1,989	1,624	1,191	512
New Zealand—							
White arsenic .. .. .	8	8	16	17	18	8	8
FOREIGN COUNTRIES							
Belgium (exports)—							
White arsenic .. .. .	294	15	—	(a)	(a)	(a)	947
France—							
White arsenic .. .. .	6,343	6,285	2,214	1,856	4,079	3,261	2,931
Germany (exports)—							
White arsenic .. .. .	3,523	552	(d) 570	(a)	(a)	(a)	(a)
Greece—							
White arsenic .. .. .	—	—	—	—	8	14	(a)
Italy—							
Mispickel ( <i>As content</i> ) ..	1,970	805	190	90	840	1,654	370
White arsenic .. .. .	354	450	250	100	1,400	1,600	1,700
Portugal—							
White arsenic .. .. .	511	579	342	239	500	989	1,590
Spain—							
White arsenic .. .. .	219	235	332	(a)	(a)	477	564
Sweden—							
Ore ( <i>As content</i> ) .. .. .	(a)	(a)	6,466	3,757	3,010	2,663	2,682
Mexico—							
White arsenic .. .. .	18,228	19,980	15,064	14,776	9,496	9,533	7,452
United States—							
White arsenic .. .. .	25,608	27,859	32,227	21,740	9,117	16,746	17,292
Argentina—							
Ore ( <i>As content</i> ) .. .. .	—	169	(a)	(a)	(a)	(a)	(a)
Brazil—							
White arsenic .. .. .	885	954	828	947	816	985	1,003
Peru—							
White arsenic .. .. .	—	1,107	6,740	3,149	741	598	995
Iran—							
Ore .. .. .	(a)	(a)	(a)	(a)	(a)	500	(a)
Japan—							
White arsenic .. .. .	2,060	(e) 2,248	(e) 1,393	(a)	1,075	1,385	2,052

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) Included with India.

(d) January to July only.

(e) Incomplete.

EXPORTS OF ARSENIC, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
White arsenic .. ..	18	—	1	6	} 532	327	146
Other compounds of arsenic .. ..	64	4	4	2			
Southern Rhodesia—							
White arsenic .. ..	179	24	12	3	(a)	10	—
Canada—							
White arsenic, etc. ..	3,744	2,954	2,677	2,710	767	1,951	1,809
Hong Kong (re-exports)—							
Arsenic .. ..	(a)	(a)	(a)	(a)	—	1	(a)
Australia—							
White arsenic .. ..	} (b) 1,622	(b) 545	(b) 101	(b) 63	{ (a) 12	(a) 12	(a) 14
Other compounds ..							
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Sulphide .. ..	5	21	27	(a)	(a)	(a)	109
Metallic arsenic .. ..	—	3	—	(a)	(a)	(a)	(a)
White arsenic .. ..	294	15	—	(a)	(a)	(a)	947
France—							
White arsenic .. ..	29	1,676	418	1	3	83	27
Arsenate of lead .. ..	160	7	22	14	940	3,240	132
Arsenate of soda .. ..	87	—	—	28	10	139	(e) 1,533
Germany—							
Ore, including antimony ore .. ..	975	1,481	(c) 1,790	(a)	(a)	(a)	(a)
White arsenic, etc. ..	3,523	552	(c) 570	(a)	(a)	(a)	(a)
Portugal—							
Ore .. ..	116	—	—	—	170	39	299
White arsenic .. ..	506	918	867	138	299	719	1,104
Mexico—							
White arsenic, pure ..	7,410	5,297	4,933	7,833	6,517	} (a)	(a)
do. crude .. ..	11,352	10,557	8,035	7,472	3,493		
Ores and concentrates ..	—	268	1,157	233	152		
As <sub>2</sub> O <sub>3</sub> content (d) ..	17,780	19,647	13,409	14,251	9,211		
United States—							
White arsenic .. ..	272	1,764	2,144	766	(a)	(a)	(a)
Arsenate of lead .. ..	264	1,364	1,904	2,830	1,248	1,386	910
Arsenate of lime .. ..	1,760	2,850	1,076	1,562	3,070	2,218	2,040
Peru—							
White arsenic .. ..	3	396	4,172	4,207	2,846	441	(a)
Japan—							
White arsenic .. ..	309	587	(a)	(a)	(a)	(a)	(a)
Turkey—							
Ore .. ..	(a)	(a)	6	1	—	3	1

(a) Information not available.

(b) Years ended June 30 of that stated.

(c) January to July only.

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

(e) Includes all other arsenates.

IMPORTS OF ARSENIC, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom—							
White arsenic .. ..	6,076	4,445	4,345	2,476	4,269	5,706	7,387
Other compounds .. ..	26	535	—	—	—	1	—
Union of South Africa—							
Arsenate of soda (b) .. ..	4	69	—	52	33	(a)	(a)
Canada—							
Sulphide .. .. .	2	2	1	—	—	} 110	38
White arsenic .. .. .	1	—	—	—	—		
Arsenate of lead .. .. .	8	2	—	—	—	2	—
Arsenate of lime .. .. .	5	4	—	14	27	—	—
Hong Kong (total imports)—							
Arsenic .. .. .	(a)	(a)	(a)	(a)	—	5	(a)
India—							
Arsenic and its oxides .. ..	14	1	2	125	131	990	135
Australia—							
White arsenic .. .. .	—	—	—	10,113	1,645	1,586	1,227
Other compounds .. .. .	1	—	2	16	66	56	156
New Zealand—							
White arsenic, etc. .. ..	52	84	25	125	31	56	16
<b>FOREIGN COUNTRIES</b>							
Belgium-Luxemburg E.U.—							
Sulphide .. .. .	1	—	—	(a)	(a)	(a)	—
White arsenic .. .. .	—	—	—	(a)	(a)	(a)	394
Bulgaria—							
White arsenic .. .. .	4	1	—	—	12	(a)	(a)
Czechoslovakia—							
Sulphide .. .. .	} (a)	(a)	(a)	(a)	{ 20	102	(c) 33
Metallic arsenic .. .. .						1	(c) 13
White arsenic .. .. .						68	(c) 138
France—							
Ore .. .. .	443	—	—	—	—	—	(a)
Sulphide .. .. .	—	—	—	—	2	6	(a)
Metallic arsenic .. .. .	—	—	—	—	—	4	(a)
White arsenic .. .. .	—	—	—	—	258	394	1,057
Arsenate of lead .. .. .	3,011	31	—	—	2	41	—
Germany—							
White arsenic, etc. .. ..	427	1,490	(d) 157	(a)	(a)	(a)	(a)
Italy—							
Metallic arsenic .. .. .	—	—	—	—	—	2	1
Portugal—							
Metallic arsenic .. .. .	—	—	—	1	—	1	1
White arsenic .. .. .	3	—	—	—	49	1	1
Arsenate of soda .. .. .	2	1	3	6	8	3	—
Spain—							
Arsenic .. .. .	—	5	—	1	2	—	—
Algeria—							
White arsenic .. .. .	—	—	—	2	—	11	3
Sulphide .. .. .	—	—	—	—	—	1	—
Arsenates .. .. .	122	28	271	279	107	76	27
Madagascar—							
Arsenates .. .. .	(a)	—	25	20	22	36	10

(a) Information not available.

(b) Includes arsenite of soda.

(c) January to October only.

(d) January to July only.

IMPORTS OF ARSENIC, ETC. (Cont.)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Mozambique—							
Arsenate of soda ..	3	—	—	—	—	—	(a)
Tunis—							
Sulphide .. .. .	—	—	—	—	—	—	1
Arsenates .. .. .	51	—	10	5	5	—	1
United States—							
Metallic arsenic .. ..	3	3	10	23	41	8	16
White arsenic .. .. .	14,598	14,017	8,688	11,282	12,340	12,446	8,336
Sulphide .. .. .	(a)	(a)	—	994	39	20	40
Arsenates of lime and soda	—	60	—	—	—	—	—
Argentina—							
Sulphide .. .. .	—	—	—	—	2	(a)	(a)
White arsenic .. .. .	292	255	1,403	1,012	708	(a)	(a)
Compounds .. .. .	—	—	—	—	5	(a)	(a)
Brazil—							
White arsenic .. .. .	—	—	1,739	2,024	654	791	360
Chile—							
Metallic arsenic .. ..	—	33	—	—	25	} (a)	(a)
White arsenic .. .. .	—	—	8	15	21		
Arsenate of lead .. ..	49	129	162	97	13		
Other arsenic compounds	—	—	—	3	6		
Colombia—							
White arsenic, etc. ..	5	39	(a)	155	28	(a)	(a)
Uruguay—							
White arsenic .. .. .	(a)	49	882	(a)	(a)	(a)	(a)
Turkey—							
Arsenic compounds ..	(a)	(a)	11	50	24	44	15

(a) Information not available.

# ASBESTOS

## PRODUCTION OF ASBESTOS

(Long tons)

Producing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
Kenya .. .. .	(a)	350	336	385	162	573	502
Southern Rhodesia .. .. .	49,824	51,916	52,047	50,312	49,886	48,298	61,515
Swaziland .. .. .	22,852	16,907	29,160	20,907	28,695	24,959	28,956
Union of South Africa—							
Amosite .. .. .	22,253	20,709	20,400	14,944	8,782	16,791	27,118
Blue .. .. .	6,822	9,236	8,630	8,635	7,760	8,106	9,740
Chrysotile .. .. .	1,712	1,816	1,798	1,576	1,487	2,012	3,965
Anthophyllite .. .. .	69	79	48	38	27	27	12
Canada (b)—							
Chrysotile .. .. .	392,374	417,139	374,344	416,871	498,376	590,911	639,972
Crude .. .. .	2,580	1,800	1,381	876	663	855	872
Fibre .. .. .	178,419	194,544	169,851	196,221	203,780	198,389	216,029
Shorts .. .. .	211,375	220,795	203,112	219,774	293,933	391,667	423,071
Sand and gravel (waste rock only) (c) .. .. .	7,223	6,173	4,037	4,562	5,658	8,580	39,433
Cyprus .. .. .	1,542	1,331	2,528	3,132	4,077	6,687	7,978
India .. .. .	507	288	583	820	293	121	28
Australia .. .. .	331	678	764	1,629	620	1,377	1,327
New Zealand .. .. .	43	187	17	2	—	—	—
<b>Total .. .. .</b>	<b>498,000</b>	<b>521,000</b>	<b>490,000</b>	<b>519,000</b>	<b>600,000</b>	<b>700,000</b>	<b>781,000</b>
<b>FOREIGN COUNTRIES</b>							
Finland .. .. .	4,605	7,348	7,611	4,131	5,690	6,252	10,647
France .. .. .	13	77	31	394	566	919	102
Greece .. .. .	—	—	—	—	4	39	(a)
Italy .. .. .	12,018	8,325	6,708	5,068	8,675	10,303	12,838
Portugal .. .. .	128	94	32	20	12	90	407
Spain .. .. .	83	49	—	—	—	—	34
Egypt .. .. .	—	7	236	84	64	999	1,599
Madagascar .. .. .	107	—	3	1	1	—	—
Morocco (French) .. .. .	118	179	498	472	439	778	394
United States—							
Chrysotile .. .. .	11,704	1,546	6,398	10,702	12,489	21,841	} 33,247
Amphibole .. .. .	1,971	1,977	350	214	390	605	
Argentina .. .. .	50	343	287	151	(a)	(a)	(a)
Bolivia (exports) .. .. .	58	21	13	60	—	139	—
Brazil .. .. .	—	951	452	2,680	1,195	2,589	1,283
Chile .. .. .	(a)	(a)	(a)	(a)	(a)	a)	148
Venezuela .. .. .	(a)	(a)	(a)	(a)	64	236	189
French Indo-China .. .. .	144	307	2,410	—	—	—	—
Japan—							
Chrysotile .. .. .	1,463	3,679	8,091	4,915	3,891	3,487	} 4,517
Amphibole .. .. .	1,973	1,539	4,605	3,002	43	—	
Korea (Southern) .. .. .	3,209	5,226	4,052	1,282	(a)	(a)	(a)
Turkey .. .. .	288	131	230	136	54	35	200
<b>Total* .. .. .</b>	<b>38,000</b>	<b>31,000</b>	<b>42,000</b>	<b>31,000</b>	<b>32,000</b>	<b>46,000</b>	<b>64,000</b>
<b>WORLD'S TOTAL* .. .. .</b>	<b>536,000</b>	<b>552,000</b>	<b>532,000</b>	<b>550,000</b>	<b>632,000</b>	<b>746,000</b>	<b>845,000</b>

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

(a) Information not available.

(b) Sales and shipments.

(c) Not included in total.

EXPORTS OF ASBESTOS

(Domestic Produce)

(Long tons)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Unmanufactured—							
Crude and fibre ..	24	31	2	156	632	830	1,136
Waste, incl. asbestic ..	97	228	126	251	296	1,221	638
Packing, etc. ..	4,284	4,178	2,852	5,628	10,335	10,816	12,624
Cement products ..	14,711	18,903	18,328	23,815	39,443	80,181	107,790
Yarn and cloth ..	1,065	877	648	1,052	1,708	1,696	1,887
Other manufactures ..	4,568	2,919	1,771	3,158	7,243	6,780	8,908
Kenya and Uganda—							
Manufactured ..	1	1	(£3)	(£110)	37	202	5
Southern Rhodesia—							
Unmanufactured ..	55,654	50,341	41,746	44,867	55,129	50,290	60,503
Cement sheets ..	(£294)	(£4,490)	(£3,297)	(£19,008)	(£23,631)	(£17,961)	(£29,734)
Union of South Africa—							
Unmanufactured ..	49,306	44,805	52,034	35,983	42,762	29,676	34,420
Manufactured (£ S.A.) ..	(£9,095)	(£32,849)	(£41,189)	(£96,705)	(£70,071)	(a)	(a)
Canada—							
Crude ..	2,496	1,777	1,376	771	571	851	779
Fibre ..	177,189	188,247	162,204	187,290	192,172	199,726	211,676
Sand and waste ..	201,973	205,511	189,936	205,294	271,707	368,080	404,012
Manufactured ..	(£38,958)	(£31,283)	(£41,391)	(£76,775)	(£53,635)	(£49,292)	(£143,960)
Malaya (incl. re-exports)—							
Manufactured ..	(a)	(a)	(a)	(a)	11	179	879
Cyprus—							
Unmanufactured ..	3,448	1,311	2,186	3,445	6,606	7,021	7,980
Hong Kong (re-exports)—							
Other manufactures ..	(a)	(a)	(a)	(a)	(£5,082)	(£11,608)	(£12,984)
Australia—							
Unmanufactured ..	(a)	(a)	(a)	32	496	652	278
Packing (£ Australian) ..	(£2,243)	(£2,038)	(£1,622)	(£487)	(£12,511)	(£8,382)	(£5,459)
New Zealand—							
Unmanufactured ..	19	(a)	(a)	(a)	(a)	(a)	21
FOREIGN COUNTRIES							
Austria—							
Unmanufactured ..	(a)	(a)	(a)	(a)	(a)	283	29
Manufactured ..	(a)	(a)	(a)	(a)	(a)	2	44
Belgium-Luxemburg E.U.—							
Unmanufactured ..	4	18	—	(a)	(a)	(a)	36
Spun and woven ..	—	—	—	(a)	(a)	(a)	(a)
Paper and board ..	—	60	8	(a)	(a)	(a)	(a)
Cement sheets and tiles	1,012	12,981	15,108	(a)	(a)	(a)	(a)
Other manufactures ..	—	3	—	(a)	(a)	(a)	(a)
Czechoslovakia—							
Unmanufactured ..	(a)	(a)	(a)	(a)	10	—	(b) —
Spun and woven ..	(a)	(a)	(a)	(a)	4	33	(b) 44
Paper and board ..	(a)	(a)	(a)	(a)	197	108	(b) 51
Other manufactures ..	(a)	(a)	(a)	(a)	17	64	(b) 21
Finland—							
Unmanufactured ..	2,085	3,648	2,030	945	995	1,583	2,472
Manufactured ..	1,210	1,098	848	409	614	820	1,054
France—							
Unmanufactured ..	74	8	1	1	76	137	264
Spun and woven ..	103	5	18	25	199	329	498
Paper and board ..	41	3	1	40	226	360	346
Brake linings ..	—	64	—	3	21	66	(a)

(a) Information not available.

(b) January to October only.

## EXPORTS OF ASBESTOS (Cont.)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Germany—							
Unmanufactured ..	1,220	1,005	(b) 228	} (a)	(a)	(a)	(a)
Spun and woven ..	617	343	(b) 129				
Paper and board ..	2,981	1,489	(b) 351				
Other manufactures ..	1,158	706	(b) 290				
Italy—							
Unmanufactured ..	610	1,028	(a)	(a)	(a)	1,313	3,302
Manufactured .. ..	(a)	(a)	(a)	(a)	(a)	5,631	7,269
Netherlands—							
Unmanufactured ..	—	2	(a)	(a)	—	17	8
Cement sheets, tiles, etc.	21	193	(a)	(a)	—	1,098	(a)
Portugal—							
Unmanufactured ..	35	1	10	2	—	14	172
Spain—							
Unmanufactured ..	2	—	6	10	3	7	9
Manufactured .. ..	19	24	103	66	77	75	35
Sweden—							
Unmanufactured ..	—	—	—	—	—	109	(a)
Manufactured .. ..	—	—	—	7	33	55	20
Switzerland (including mica)—							
Unmanufactured ..	—	—	—	—	1	1	49
Manufactured .. ..	39	29	19	13	243	372	399
United States—							
Unmanufactured ..	691	328	424	7,634	9,831	1,863	5,830
Spun, woven and packing	908	871	969	1,486	2,078	1,876	1,406
Paper and board ..	606	744	690	673	583	963	1,463
Brake linings .. ..	(£493,900)	(£331,100)	(£412,192)	(£451,367)	(£547,502)	(£858,551)	(£655,638)
Clutch facings .. ..	(£138,600)	(£137,600)	(£140,857)	(£138,135)	(£124,081)	(£197,193)	(£136,709)
Pipe covering and cement	949	1,236	1,525	1,629	985	2,469	1,428
Other manufactures ..	1,263	2,513	4,778	5,398	7,780	5,004	3,438
Argentina—							
Manufactured .. ..	11	29	18	19	4	(a)	(a)
Bolivia—							
Unmanufactured ..	58	21	13	60	—	139	—
Brazil—							
Unmanufactured ..	—	2	—	—	—	50	—
Peru—							
Manufactured .. ..	(a)	(a)	(a)	123	620	(a)	(a)

(a) Information not available.

(b) January to July only.

IMPORTS OF ASBESTOS

(Less Re-exports)

(Long tons)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Unmanufactured—							
Crude and fibre ..	66,100	53,249	69,445	64,280	53,505	66,788	86,947
Waste, including							
asbestos .. ..	799	727	1,687	1,446	1,217	4,397	5,526
Packing, etc. .. ..	1	—	2	7	15	—	9
Cement products .. ..	2	3,835	1,121	—	932	2,050	1,030
Yarn and cloth .. ..	—	—	—	—	—	—	2
Other manufactures .. ..	527	291	1	10	4	37	144
Anglo-Egyptian Sudan—							
Sheets, pipes, etc. ..	(a)	286	27	517	701	877	3,097
Kenya and Uganda—							
Manufactured .. ..	26	33	12	120	551	1,149	3,149
Mauritius—							
Manufactured .. ..	(a)	(a)	(a)	(£1,746)	(a)	(£5,317)	(£1,748)
Nyasaland—							
Cement sheets, etc. ..	(a)	(a)	(a)	(a)	494	1,033	1,231
Seychelles—							
Cement sheets .. ..	3	—	—	—	22	83	269
Southern Rhodesia (total imports)—							
Cement sheets .. ..	(£2,934)	(£5,951)	(£6,524)	(£7,693)	(£4,764)	(£3,645)	(£8,524)
Other manufactures ..	(£749)	(£19,608)	(£23,628)	(£29,195)	(£18,544)	(£39,890)	(£77,547)
South West Africa—							
Cement sheets (£ S.A.)	—	(£669)	(£5,677)	(£8,541)	(£7,710)	(a)	(a)
Other manufactures (£ S.A.) .. ..	(£890)	(£124)	(£2,560)	(£2,686)	(£4,680)	(a)	(a)
Tanganyika Territory—							
Manufactured .. ..	—	126	44	132	122	915	1,389
Union of South Africa—							
Packing (£ S.A.) .. ..	(£46,878)	(£70,179)	(£58,133)	(£68,864)	(£98,000)	(a)	(a)
Cement products (£ S.A.)	(£7,197)	—	—	(£300)	(£253)	(a)	(a)
Other manufactures (£ S.A.) .. ..	(£7,602)	(£13,344)	(£8,324)	(£5,039)	(£8,787)	(a)	(a)
Canada—							
Packing .. ..	124	125	99	96	100	109	77
Other manufactures ..	(£551,015)	(£485,105)	(£421,855)	(£474,770)	(£494,032)	(£853,457)	(£896,121)
Newfoundland (c)—							
Asbestos and manufactures .. ..	(d) (£1,780)	(£5,097)	(£11,560)	(£12,082)	(£13,387)	(£23,233)	(£21,103)
British West Indies—							
Barbados—							
Cement sheets .. ..	(a)	(a)	(a)	(£3,967)	(£10,583)	(£18,721)	(£12,973)
Grenada—							
Manufactured .. ..	(£1,226)	(£1,448)	(a)	(£8)	(£4,051)	(£1,271)	(£4,423)
Jamaica—							
Manufactured .. ..	(a)	(a)	(a)	(a)	(a)	(£15,279)	(£47,525)
St. Vincent—							
Manufactured .. ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Trinidad and Tobago—							
Cement products .. ..	1,661	922	1,197	1,274	964	8,797	2,176
Other manufactures ..	314	234	101	145	143	104	254
Aden—							
Cement sheets .. ..	396	21	8	21	29	38	—
Other manufactures ..	(£604)	(£212)	(£1,364)	(£83)	(£897)	(£1,227)	—

(a) Information not available.

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

(c) Nine months ended March 31, 1943.



IMPORTS OF ASBESTOS (Cont.)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948			
<b>BRITISH COUNTRIES (Cont.)</b>										
Burma—										
Packing .. .. .	(a)	(a)	(a)	(a)	(b) (£663)	(a)	(a)			
Cement products ..	(a)	(a)	(a)	(a)	(b) (£22)	(a)	(a)			
Other manufactures ..	(a)	(a)	(a)	(a)	(b) (£185)	(a)	(a)			
India—										
Unmanufactured ..	10,860	6,599	10,326	5,527	8,355	3,794	3,644			
Cement products ..	1,433	684	364	453	258	1,225	1,041			
Packing .. .. .	(£41,020)	(£19,361)	(£31,469)	(£35,788)	(£51,372)	(£57,226)	(£74,421)			
Other manufactures ..	(£102,296)	(£36,401)	(£97,874)	(£112,701)	(£129,929)	(£138,997)	(£60,146)			
Malaya (c)—										
Manufactured .. ..	(a)	(a)	(a)	(a)	2,425	7,808	13,198			
Cyprus—										
Sheets .. .. .	(a)	(a)	1	(a)	89	585	889			
Hong Kong (total imports)—										
Manufactures .. ..	(a)	(a)	(a)	(a)	(£9,185)	(£29,799)	(£17,261)			
Palestine—										
Manufactured .. ..	(£3,770)	(£4,420)	(£10,829)	(£9,531)	(£46,558)	(a)	(a)			
Sarawak—										
Sheets .. .. .	(a)	(a)	(a)	(a)	(a)	(a)	138			
Australia—										
Crude .. .. .	20,176	14,229	14,091	9,131	18,697	14,246	14,857			
Packing (£ Australian) ..	(£188,419)	(£137,933)	(£180,123)	(£197,093)	(£112,561)	(£109,455)	(£186,355)			
New Zealand—										
Unmanufactured ..	2,338	3,000	2,702	3,471	1,651	2,295	1,784			
Sheets, slates, tiles, etc. (£ N.Z.) .. .. .	(£8,664)	(£3,369)	(£208)	(d) 89	(d) 610	(d) 47,491	(d) 467,878			
Lining and packing (£ N.Z.) .. .. .	(a)	(a)	(a)	(£66,932)	(£70,256)	(£96,919)	(a)			
Irish Republic—										
Manufactured .. ..	618	190	781	800	1,717	2,036	2,184			
<b>FOREIGN COUNTRIES</b>										
Austria—										
Unmanufactured ..	(a)	(a)	(a)	(a)	(a)	833	1,563			
Manufactured .. ..	(a)	(a)	(a)	(a)	(a)	7	65			
Belgium-Luxemburg E.U.—										
Unmanufactured ..	69	23	2	}	(a)	(a)	}			
Spun and woven ..	29	18	7							
Paper and board ..	75	66	25							
Cement sheets and tiles ..	(a)	(a)	(a)							
Other manufactures ..	—	1	1				173			
Bulgaria—										
Unmanufactured ..	10	9	1	—	—	(a)	(a)			
Manufactured .. ..	55	42	12	1	34	(a)	(a)			
Czechoslovakia—										
Unmanufactured ..	}	(a)	(a)	(a)	}	}	(e)			
Spun and woven ..								886	2,146	5,501
Paper and board ..								2	11	4
Other manufactures ..								6	45	304
Denmark—										
Unmanufactured ..	424	284	175	1,152	3,405	6,865	6,083			
Spun and woven ..	42	9	13	5	120	106	128			
Paper and board ..	314	345	233	121	193	235	335			
Packing, etc. .. ..	91	81	96	25	367	267	219			
Cement sheets .. ..	104	15	1	—	36	30	19			

- (a) Information not available.
- (b) February to September only.
- (c) Total imports.
- (d) Square yards.
- (e) January to October only.

## IMPORTS OF ASBESTOS (Cont.)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Finland (b)—							
Unmanufactured ..	18	10	2	2	190	222	517
Manufactured .. ..	87	70	40	15	251	416	286
France—							
Unmanufactured ..	2,217	1,075	268	9,628	36,735	18,722	20,369
Spun and woven ..	12	4	7	1	672	84	155
Paper and board ..	117	84	9	25	31	468	122
Brake linings, etc. ..	6	7	14	5	86	34	(a)
Germany—							
Unmanufactured ..	4,984	7,756	(c) 4,228	} (a)	(a)	(a)	(a)
Spun and woven ..	14	4	(c) 53				
Paper and board ..	1,624	3,763	(c) 437				
Other manufactures ..	87	27	(c) 52				
Greece .. .. .	(a)	(a)	(a)	—	49	62	(a)
Iceland—							
Unmanufactured ..	5	33	—	12	—	(a)	(a)
Manufactured .. ..	244	192	159	230	230	(a)	(a)
Italy—							
Unmanufactured ..	313	(a)	(a)	(a)	(a)	1,916	2,065
Manufactured .. ..	(a)	(a)	(a)	(a)	(a)	263	361
Netherlands—							
Unmanufactured ..	148	172	(a)	(a)	2,353	3,492	4,118
Cement sheets, tiles, etc. ..	113	37	(a)	(a)	4,358	4,910	4,890
Other manufactures ..	(a)	(a)	(a)	(a)	(a)	(a)	1,209
Norway—							
Unmanufactured ..	403	681	424	740	1,397	1,908	1,312
Manufactured .. ..	561	380	198	319	679	836	1,048
Portugal—							
Unmanufactured ..	910	763	1,337	1,128	2,531	1,268	1,510
Manufactured .. ..	27	19	46	33	62	72	122
Spain—							
Unmanufactured ..	1,532	925	5,112	1,317	4,497	2,467	215
Manufactured .. ..	464	444	259	334	582	237	96
Sweden—							
Unmanufactured ..	720	1,250	1,195	7,665	5,161	8,259	3,563
Manufactured .. ..	1,103	629	282	585	1,923	1,951	1,923
Switzerland (including mica)—							
Unmanufactured ..	444	514	48	988	2,633	2,065	2,062
Manufactured .. ..	587	475	517	105	1,279	1,255	1,473
Algeria—							
Unmanufactured ..	—	—	10	—	21	58	448
Manufactured .. ..	64	—	38	55	300	166	188
Belgian Congo—							
Unmanufactured ..	(a)	804	829	402	(a)	(a)	(a)
Egypt—							
Unmanufactured ..	104	105	71	295	(b) 154	(b) 155	(b) 450
Paper and board ..	177	32	41	203	(b) 186	(b) 70	(b) 93
Other manufactures ..	(£26,324)	(£13,345)	66	126	182	(b) 137	(b) 179
Costa Rica—							
Unmanufactured ..	3	3	32	60	76	73	14
Honduras—							
Manufactured .. ..	(a)	(a)	(a)	940	434	(a)	(a)
Mexico—							
Unmanufactured ..	3,424	1,894	293	3,230	3,334	(a)	(a)
Manufactured .. ..	533	412	411	788	840	(a)	(a)
Netherlands West Indies—							
Manufactured .. ..	(a)	(a)	1,543	2,691	(a)	(a)	(a)

(a) Information not available.

(b) Total imports.

(c) January to July only.

IMPORTS OF ASBESTOS (Cont.)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
United States—							
Unmanufactured—							
Crude .. .. .	29,122	49,639	25,641	17,264	13,306	32,100	34,008
Mill fibre .. ..	150,022	145,201	132,231	122,726	136,817	143,761	155,597
Other .. .. .	195,179	198,028	183,864	193,977	257,634	354,003	386,453
Manufactured .. ..	1,069	114	179	138	(a)	764	542
Argentina—							
Spun and woven ..	450	310	126	220	898	(a)	(a)
Paper and board ..	5,865	5,274	6,266	9,655	4,803	(a)	(a)
Brazil (total imports)—							
Unmanufactured ..	992	2,229	1,662	1,992	3,046	3,130	4,893
Manufactured .. ..	539	446	597	930	2,054	2,088	1,586
Chile—							
Manufactured .. ..	2,327	1,840	2,254	1,676	1,970	(a)	(a)
Colombia—							
Unmanufactured ..	196	924	(a)	(a)	1,745	(a)	(a)
Manufactured .. ..	268	87	396	(a)	446	(a)	(a)
Uruguay—							
Unmanufactured ..	} (a)	626	350	(a)	(a)	(a)	(a)
Manufactured .. ..							
Venezuela—							
Unmanufactured ..	6	17	(a)	57	171	771	(a)
Manufactured .. ..	1,228	1,723	(a)	5,409	20,455	24,251	(a)
China .. .. .	(a)	(a)	(a)	(a)	562	764	(a)
Syria and Lebanon—							
Cement sheets, etc. ..	32	11	(a)	—	284	(a)	(a)
Other manufactures ..	1	5	(a)	7	46	(a)	(a)
Turkey—							
Manufactured .. ..	(a)	(a)	112	112	92	169	216

(a) Information not available.

## BARIUM MINERALS

### PRODUCTION OF BARIUM MINERALS

(Long tons)

Producing Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
Great Britain—							
Barytes, unground ..	57,522	59,280	57,688	53,874	68,101	46,327	(a)
Witherite, unground ..	12,813	11,835	10,839	10,766	14,376	14,727	(a)
Barytes—							
Ground, bleached ..	3,306	2,768	3,243	3,062	2,672	3,370	(a)
do. unbleached ..	25,086	27,230	27,066	25,513	25,776	30,222	(a)
Antigua (Leeward Islands)	180	360	71	357	51	14	—
Canada .. .. .	17,560	21,852	105,999	124,633	107,517	114,888	85,488
Southern Rhodesia ..	2,633	1,236	13	—	171	18	50
Swaziland .. .. .	—	—	—	(b) 78	(b) 220	(c) 169	(c) 97
Union of South Africa ..	733	2,696	3,150	2,174	2,289	2,629	1,706
India .. .. .	18,258	8,860	15,299	24,655	29,091	24,310	22,333
Palestine .. .. .	—	—	—	23	3	(a)	(a)
Australia .. .. .	6,410	4,537	4,416	3,447	7,589	5,413	3,770
Irish Republic—							
Barytes, refined .. ..	(a)	4,375	5,496	6,690	6,130	6,298	3,197
do. unrefined .. .. .	(a)	1,023	4,857	9,760	7,213	6,425	3,727
FOREIGN COUNTRIES							
Austria .. .. .	(a)	(a)	(a)	(a)	803	1,901	3,614
France .. .. .	26,524	18,000	9,424	13,577	34,024	53,118	47,194
Germany—							
Baden .. .. .	43,459	(a)	(a)	(a)	(d) 1,968	10,388	18,767
Bavaria .. .. .	27,102	28,805	22,659	(a)	(a)	(a)	(a)
Prussia .. .. .	254,518	255,000	250,000	(a)	(a)	(a)	(a)
Saxony .. .. .	25	(a)	(a)	(a)	(a)	(a)	(a)
Thuringia .. .. .	9,209	(a)	(a)	(a)	(a)	(a)	(a)
Greece .. .. .	—	—	—	—	—	(f) 12,783	18,411
Italy .. .. .	37,008	30,777	23,781	11,747	31,624	67,650	61,251
Portugal .. .. .	222	1	69	285	246	835	320
Spain .. .. .	6,897	6,210	7,373	9,717	12,052	19,504	13,929
Sweden .. .. .	(a)	(a)	(a)	1,230	497	1,298	1,884
Algeria (e) .. .. .	2,709	1,398	1,265	2,734	7,320	23,590	13,885
Egypt .. .. .	59	75	58	53	—	164	—
Tunis .. .. .	(a)	71	66	69	404	(e) 1,466	224
Cuba (f) .. .. .	3,727	3,108	8,089	(a)	(a)	(a)	(a)
United States .. .. .	401,672	383,302	459,050	618,152	647,521	789,481	694,501
Argentina .. .. .	6,971	10,835	14,178	8,449	(a)	(a)	(a)
Brazil .. .. .	(a)	(a)	278	607	10,163	13,750	(a)
Chile .. .. .	—	(a)	1,581	3,110	3,693	(a)	2,107
Peru .. .. .	—	—	2,315	4,173	7,073	6,456	1,759
French Indo-China ..	100	—	—	—	—	—	—
Japan .. .. .	15,103	15,395	11,859	7,421	709	929	3,281
Korea .. .. .	11,508	9,939	5,551	(a)	(a)	(a)	(a)

Barytes is also produced in Czechoslovakia, Norway, U.S.S.R., China and Japan.

(a) Information not available.

(b) Unground.

(c) Ground.

(d) April to December only.

(e) Revised.

(f) Exports.

EXPORTS OF BARIUM MINERALS, ETC.\*

(Domestic Produce)

(Long tons)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom—							
Unground barytes ..	593	10	—	30	160	93	185
Ground barytes .. ..	777	38	66	941	629	1,539	4,718
Dioxide .. .. .	129	108	40	68	183	10	31
Barium, compounds, excluding blanc fixe ..	2,696	1,065	740	2,778	3,704	3,140	3,653
Antigua (Leeward Is.)—							
Barytes .. .. .	180	360	71	357	51	14	—
Canada—							
Unground .. .. .	(a)	—	60,000	41,000	75,965	67,300	(a)
Ground .. .. .	(a)	20,000	34,000	54,000	29,542	55,900	(a)
Southern Rhodesia—							
Barytes .. .. .	2,507	1,210	16	34	81	143	135
Australia—							
Unground barytes ..	} (b) 1,785	(b) 1,616	(b) 522	(b) 1,217	{ 1,143	629	326
Ground barytes .. ..							
Irish Republic—							
Unground barytes ..	—	—	267	2,330	732	80	594
Ground barytes .. ..	174	2,748	4,419	4,250	6,473	3,205	2,504
<b>FOREIGN COUNTRIES</b>							
Belgium-Luxemburg E.U.—							
Barytes and witherite ..	(c) 315	(c) 30	(c) 8	(a)	(a)	(a)	114
Chloride .. .. .	6	505	30	(a)	(a)	(a)	349
Sulphate .. .. .	226	176	—	(a)	(a)	(a)	(a)
Sulphide .. .. .	143	34	—	(a)	(a)	(a)	17
Czechoslovakia—							
Barytes .. .. .	(a)	(a)	(a)	(a)	—	35	(d) 52
Sulphate .. .. .	(a)	(a)	(a)	(a)	35	50	(d) 77
France—							
Barytes .. .. .	17	—	—	—	139	1,472	925
Witherite .. .. .	(a)	—	—	—	21	82	427
Barium compounds ..	48	2	3	64	381	1,984	1,667
Germany—							
Barytes and celestite ..	21,544	18,311	(e) 12,883	} (a)	(a)	(a)	(a)
Witherite and strontianite	146	77	(e) 62				
Carbonate .. .. .	3,438	2,590	(e) 1,357				
Chloride .. .. .	640	2,076	(e) 808				
Nitrate .. .. .	417	363	(e) 118				
Sulphate .. .. .	5,425	6,063	(e) 4,128				
Greece—							
Barytes .. .. .	(a)	(a)	(a)	(a)	—	12,783	17,048
Italy—							
Barytes .. .. .	(a)	(a)	(a)	(a)	(a)	607	1,296
Sulphate .. .. .	(a)	(a)	(a)	(a)	(a)	10,243	8,886
Netherlands—							
Barytes .. .. .	3	3	(a)	(a)	—	16	132
Sweden—							
Barytes and witherite ..	—	—	—	15	—	689	9
Algeria—							
Barytes .. .. .	821	424	267	561	4,480	17,045	13,956
Tunis—							
Barytes .. .. .	(a)	(a)	(a)	(a)	(a)	(a)	37
Cuba—							
Barytes .. .. .	3,727	3,108	8,089	228	(a)	(a)	(a)
United States—							
Witherite .. .. .	49	5	26	—	(a)	(a)	(a)
Chile—							
Barytes .. .. .	15	10	20	—	—	(a)	(a)

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

(b) Years ended June 30 of that stated.

(d) January to October only.

(a) Information not available.

(c) Including Iceland spar and cryolite.

(e) January to July only.

## IMPORTS OF BARIUM MINERALS, ETC.\*

(Less Re-exports)

(Long tons)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom—							
Unground barytes ..	—	95	300	1,693	19,619	13,224	10,131
Ground barytes ..	569	2,620	4,304	3,968	15,059	17,673	9,934
Barium compounds, excluding blanc fixe ..	379	45	—	—	1	6	1,340
Union of South Africa—							
Barytes ..	2,767	1,465	300	207	604	(a)	(a)
Carbonate and dioxide ..	45	121	128	105	311	(a)	(a)
Canada—							
Barytes ..	2,264	1,506	1,629	1,027	1,381	1,551	1,128
Blanc fixe ..	277	154	245	311	355	274	624
British West Indies—							
Trinidad and Tobago—							
Barytes ..	8,905	18,357	6,720	19,327	9,421	16,642	22,898
India—							
Barytes ..	22	17	23	11	9	70	11
New Zealand—							
Barytes ..	(a)	(a)	(a)	1,156	1,551	505	1,474
Irish Republic—							
Ground barytes, including blanc fixe ..	22	11	1	—	4	6	26
<b>FOREIGN COUNTRIES</b>							
Austria—							
Carbonate ..	(a)	(a)	(a)	(a)	(a)	25	90
Sulphate ..	(a)	(a)	(a)	(a)	(a)	1,316	1,769
Belgium-Luxemburg E.U.—							
Barytes and witherite ..	(b) 6,727	(b) 3,140	(b) 343	(a)	(a)	(a)	33,836
Carbonate ..	(a)	(a)	(a)	(a)	(a)	(a)	1,458
Chloride ..	25	147	43	(a)	(a)	(a)	(a)
Sulphate ..	1,689	933	1,235	(a)	(a)	(a)	(a)
Sulphide ..	142	153	197	(a)	(a)	(a)	(a)
Bulgaria—							
Sulphate ..	1	1	—	—	—	(a)	(a)
Czechoslovakia—							
Unground barytes ..					—	1,823	(c) 1,079
Ground barytes ..					—	10	(c) —
Carbonate ..	(a)	(a)	(a)	(a)	2	357	(c) 500
Chloride ..					—	416	(c) 397
Sulphate ..					(a)	235	(c) 246
Denmark—							
Witherite and carbonate	159	205	269	100	135	53	172
Chloride ..	2	125	42	1	190	73	54
Sulphate ..	1,082	1,241	1,518	47	466	1,050	1,318
Finland (total imports)—							
Barytes ..	900	357	431	10	396	2	181
Chloride ..	—	15	15	1	63	128	20
Carbonate ..	35	49	32	10	76	25	23
Sulphate ..	66	33	21	7	43	35	79

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

(a) Information not available.

(b) Including "Iceland spar and cryolite."

(c) January to October only.

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
France—							
Barytes .. .. .	583	119	242	175	1,197	8,015	—
Witherite .. .. .	—	—	—	242	349	93	(a)
Chloride .. .. .	260	76	51	63	434	45	—
Hydrate .. .. .	33	17	—	—	2	11	(a)
Nitrate .. .. .	80	128	11	—	4	—	(a)
Precipitated carbonate ..	574	632	230	25	806	850	104
Sulphate .. .. .	921	1,433	310	30	328	552	237
Sulphide .. .. .	85	119	3	14	46	50	(a)
Germany—							
Barytes and celestite ..	14,623	7,874	(b) 2,381	(a)	(a)	(a)	(a)
Witherite and strontianite	—	—	(b) —	(a)	(a)	(a)	(a)
Italy—							
Sulphate .. .. .	(a)	(a)	(a)	(a)	(a)	10	21
Netherlands—							
Barytes .. .. .	4,726	5,158	(a)	(a)	1,610	14,024	9,231
Blanc fixe .. .. .	1,148	1,597	(a)	(a)	746	1,117	653
Poland—							
Carbonate .. .. .	(a)	(a)	(a)	—	5	(a)	(a)
Portugal—							
Barytes .. .. .	374	—	—	—	—	—	—
Carbonate .. .. .	29	12	12	—	5	11	3
Chloride .. .. .	10	35	—	130	75	46	27
Sulphate .. .. .	20	8	12	31	83	79	32
Sweden—							
Barytes and witherite ..	2,345	1,170	2,268	3	968	2,557	1,883
Algeria—							
Barytes .. .. .	4	—	2	48	139	69	84
Oxide, etc. .. .. .	15	—	—	—	—	—	—
Mexico—							
Barytes .. .. .	53	98	119	218	31	(a)	(a)
Witherite .. .. .	5	57	50	67	111	(a)	(a)
Chloride .. .. .	34	34	28	7	24	(a)	(a)
United States—							
Unground barytes ..	4,179	—	60,614	50,798	39,877	47,520	47,504
Ground barytes .. .. .	—	—	10,682	1	—	—	—
Witherite .. .. .	2,737	480	—	800	988	10	2,205
Sulphate .. .. .	25	(c)	—	—	—	(a)	(a)
Barium compounds ..	319	173	—	90	—	64	10
Argentina—							
Barytes .. .. .	1,079	683	15	—	1,099	(a)	(a)
Sulphate .. .. .	255	431	61	63	623	(a)	(a)
Barium compounds ..	638	369	47	651	829	(a)	(a)
Brazil—							
Chloride .. .. .	79	38	9	83	121	52	(a)
Sulphate .. .. .	403	413	421	171	579	442	(a)
Chile—							
Sulphate .. .. .	6	—	9	10	3	} (a)	(a)
Carbonate .. .. .	—	—	6	15	29		
Chloride .. .. .	8	21	—	101	103		
Oxides .. .. .	47	31	44	32	16		
Colombia—							
Chloride .. .. .	3	2	(a)	1	4	(a)	(a)
Sulphate .. .. .	6	7	8	795	1,613	(a)	(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	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Peru—							
Barium compounds ..	48	99	74	65	33	(a)	(a)
Uruguay—							
Oxides .. .. .	(a)	27	27	(a)	(a)	(a)	(a)
Sulphate .. .. .	(a)	441	598	(a)	(a)	(a)	(a)
Venezuela—							
Barytes .. .. .	(a)	(a)	(a)	35,219	23,919	43,987	(a)
Sulphate .. .. .	374	941	(a)	34	3	5	(a)
Japan—							
Barytes .. .. .	13,000	13,000	7,000	5,000	(a)	(a)	(a)
Turkey—							
Barytes .. .. .	(a)	(a)	—	4	98	37	20
Sulphate .. .. .	(a)	(a)	—	—	—	—	25
Barium compounds ..	(a)	(a)	4	107	8	36	70

(a) Information no. available.



## BISMUTH

### PRODUCTION OF BISMUTH ORE, ETC.\*

(Cwt.)

Producing Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
Southern Rhodesia— Bismuth .. .. .	—	—	—	—	—	—	2
Uganda (exports)— Ore ( <i>Bi content</i> ) ..	—	—	—	—	—	—	78
Union of South Africa— Ore ( <i>Bi content</i> ) ..	3	37	16	12	14	—	9
Canada— Metal and content of bullion exported ..	3,103	3,639	1,106	1,695	2,147	2,539	2,145
Australia— Concentrates ( <i>Bi content</i> )	15	113	70	64	22	86	80
FOREIGN COUNTRIES							
France— Mispickel ( <i>Bi content</i> ) ..	200	80	60	—	—	1,080	1,100
Spain— Ore .. .. .	2,461	812	1,195	1,046	2,341	1,190	851
Sweden— Metal .. .. .	—	—	—	—	245	216	—
Belgian Congo— Ore ( <i>Bi content</i> ) ..	(a)	(a)	(a)	(a)	(a)	16	9
Mexico— Ore ( <i>Bi content</i> ) .. ..	2,520	3,446	3,248	3,170	498	5,021	3,161
Argentina— Ore ( <i>Bi content</i> ) .. ..	341	500	(a)	(a)	(a)	(a)	(a)
Bolivia (exports)— Ore, etc. ( <i>Bi content</i> ) ..	175	244	12	302	549	1,751	692
Peru— Lead tin-antimony bars ( <i>Bi content</i> ) .. .. .	333	—	—	—	1,765	60	930
Metal .. .. .	7,361	9,506	8,192	6,052	4,366	4,602	4,052

\* 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	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom— Bismuth .. .. .	2	3	101	11	413	841	2,200
Uganda— Ore ( <i>Bi content</i> ) ..	—	—	—	—	—	—	78
Union of South Africa— Bismuth .. .. .	(a)	(a)	(a)	(a)	15	—	9
Hong Kong (re-exports)— Ore .. .. .	(a)	(a)	(a)	(a)	40	215	(a)
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.— Bismuth .. .. .	(a)	(a)	(a)	(a)	(a)	(a)	571
France— Bismuth salts .. ..	43	—	(a)	—	45	63	(a)
Germany— Bismuth salts	1,215	652	(b) 79	(a)	(a)	(a)	(a)
Spain— Bismuth .. .. .	—	6	—	—	—	—	—
Bismuth salts .. ..	202	86	1	—	—	—	—
Mexico— Bars, etc. ( <i>Bi content</i> ) ..	2,553	2,284	3,302	3,176	1,499	(a)	(a)
United States— Matte, residues, etc. ..	103	—	—	—	839	(a)	(a)
Metal and alloys .. ..	132	145	91	1,032	1,367	2,150	3,143
Salts .. .. .	2,340	671	984	1,102	(a)	(a)	(a)
Bolivia— Ore, etc. ( <i>Bi content</i> ) ..	175	244	12	302	549	1,751	692
Chile— Bismuth Salts .. .. .	— 22	— 23	276 3	— 15	— 97	(a) (a)	— —
Peru— Bars, etc. ( <i>Bi content</i> ) ..	6,812	9,536	8,783	6,277	6,334	4,311	5,534

(a) Information not available.

(b) January to July only.

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Bismuth .. .. .	9,015	8,564	7,021	1,990	3,171	2,407	(a)
Canada—							
Bismuth .. .. .	—	—	—	—	—	36	1,489
Bismuth salts .. ..	(£2,642)	(£3,522)	(£599)	(£2,531)	(£3,001)	(£1,730)	(£3,497)
Hong Kong (total imports)—							
Ore .. .. .	(a)	(a)	(a)	(a)	40	215	(a)
Australia—							
Bismuth .. .. .	(a)	(a)	(a)	(a)	8	314	463
Bismuth salts .. ..	805	725	191	373	174	32	120
New Zealand—							
Bismuth and its salts (£ N.Z.) .. .. .	(£10,364)	(£14,180)	(£9,478)	(£44,447)	(£2,785)	(£1,386)	—
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Bismuth .. .. .	(a)	(a)	(a)	(a)	(a)	(a)	197
Bismuth salts .. ..	(a)	(a)	(a)	(a)	(a)	(a)	511
France—							
Bismuth .. .. .	—	—	—	1,181	2,057	1,728	(a)
Bismuth salts .. ..	75	33	—	—	463	30	(a)
Germany—							
Bismuth salts .. ..	2	2	(b) 6	(a)	(a)	(a)	(a)
Spain—							
Bismuth .. .. .	—	—	—	—	30	—	—
Bismuth salts .. ..	54	86	156	87	186	16	58
Algeria—							
Bismuth salts .. ..	—	—	—	—	28	14	(a)
Mexico—							
Bismuth .. .. .	28	5	7	6	5	(a)	(a)
Bismuth salts .. ..	224	38	57	124	71	(a)	(a)
United States—							
Bismuth .. .. .	—	4,483	3,250	2,979	3,771	2,773	2,677
Argentina—							
Bismuth .. .. .	33	18	17	} 126	57	(a)	(a)
Bismuth salts .. ..	5	12	15				
Chile—							
Ore .. .. .	57	—	—	—	—	(a)	(a)
Bismuth .. .. .	55	12	20	—	41	(a)	(a)
Bismuth salts .. ..	36	28	34	46	52	(a)	(a)
Colombia—							
Bismuth salts .. ..	82	33	(a)	42	25	(a)	(a)
Peru—							
Bismuth salts .. ..	2	24	19	30	27	(a)	(a)
Venezuela—							
Bismuth salts .. ..	137	88	(a)	(a)	99	(a)	(a)
Turkey—							
Bismuth .. .. .	(a)	(a)	1	—	1	4	7
Bismuth salts .. ..	(a)	(a)	90	49	22	18	154

(a) Information not available.

(b) January to July only.

## BORATES

### PRODUCTION OF CRUDE BORATES

(Long tons)

Producing Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES							
Italy—							
Boric acid .. ..	6,033	6,399	2,672	3,050	4,255	4,907	4,796
United States—							
Borates .. .. .	202,431	229,137	247,845	291,013	384,544	448,156	402,618
Argentina—							
Borate of calcium ..	4,685	6,844	5,471	—	5,167	7,000	(a)
Chile—							
Borate of calcium ..	(a)	(a)	2,286	1,169	1,454	469	(a)
Tibet (b)—							
Borax .. .. .	501	335	(c) 164	(c) 266	(c) 340	(a)	(a)
Turkey—							
Borates .. .. .	20	300	408	4,954	2,175	3,551	5,230

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

(a) Information not available.

(b) Imports into India from Tibet.

(c) Years ended March 31 following that stated.

EXPORTS OF BORATES

(Domestic Produce)

(Long tons)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom							
Borax .. .. .	262	282	202	349	1,606	172	797
Boric acid .. .. .	182	134	92	85	574	118	90
Hong Kong (re-exports)—							
Borax .. .. .	(a)	(a)	(a)	(a)	483	383	513
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Borates and perborates	30	4	—	(a)	(a)	(a)	94
Borax .. .. .	3	—	—	(a)	(a)	(a)	298
France—							
Borax, borates and boric acid .. .. .	278	30	—	6	683	1,070	589
Germany—							
Borax and boric acid ..	61	49	(b) 25	(a)	(a)	(a)	(a)
Italy—							
Boric acid, crude ..	(a)	(a)	(a)	(a)	(a)	585	361
do. refined ..	(a)	(a)	(a)	(a)	(a)	961	418
Borax .. .. .	(a)	(a)	(a)	(a)	(a)	199	381
Netherlands—							
Borax .. .. .	1	1	(a)	(a)	49	63	91
Sweden—							
Borax and boric acid ..	3	1	50	140	10	8	8
Switzerland—							
Borax .. .. .	—	—	—	—	41	220	21
United States—							
Borates and borax ..	32,626	24,115	29,244	38,817	47,592	76,550	63,339
Perborate of sodium ..	291	271	43	65	(a)	(a)	(a)
Boric acid .. .. .	8,555	5,408	8,942	5,504	6,468	8,540	6,988
Argentina—							
Borates of calcium and sodium .. .. .	1,891	1,459	1,014	218	478	(a)	(a)
Tibet (c)—							
Borax .. .. .	501	335	(d) 164	(d) 266	(d) 340	(a)	(a)
Turkey—							
Borates .. .. .	—	—	—	2,000	3,000	6,265	5,967

(a) Information not available.

(b) January to July only.

(c) Imports into India from Tibet.

(d) Years ended March 31 following that stated.

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom—							
Borates .. .. .	14,470	5,669	11,638	10,937	9,431	14,919	(a)
Borax .. .. .	7,358	1,176	7,070	3,520	4,007	9,646	12,463
Boric acid .. .. .	4,829	1,019	3,552	1,491	224	2,716	3,133
Anglo-Egyptian Sudan—							
Borax .. .. .	(a)	(a)	(a)	(a)	(a)	(a)	33
Southern Rhodesia—							
Borax .. .. .	67	113	9	37	32	93	89
Boric acid .. .. .	(a)	(a)	(a)	(a)	2	3	—
Union of South Africa—							
Borax .. .. .	364	529	379	391	646	(a)	(a)
Boric acid .. .. .	165	443	122	126	178	(a)	(a)
Canada—							
Borax .. .. .	4,722	4,233	4,272	4,778	6,479	8,442	6,161
Boric acid .. .. .	1,096	999	1,063	1,364	1,093	1,394	1,429
Aden—							
Borax .. .. .	16	—	—	1	6	6	(a)
Burma—							
Borax .. .. .	(a)	(a)	(a)	(a)	(c) 2	(a)	(a)
Hong Kong (total imports)—							
Borax .. .. .	(a)	(a)	(a)	(a)	1,104	965	770
India—							
Borax (b) .. .. .	2,583	2,367	2,577	1,987	2,168	(d) 7,384	(d) 3,114
Australia—							
Borax .. .. .	—	—	1,217	922	1,227	2,427	1,388
Boric acid .. .. .	640	432	518	588	268	1,073	845
New Zealand—							
Borax .. .. .	27	509	19	4	29	93	49
Boric acid .. .. .	98	186	72	1	11	36	38
Irish Republic—							
Borax .. .. .	150	120	151	151	206	136	300
Boric acid .. .. .	70	45	54	63	108	112	92
<b>FOREIGN COUNTRIES</b>							
Austria—							
Borax, crude .. .. .	(a)	(a)	(a)	(a)	(a)	197	544
do. refined .. .. .	(a)	(a)	(a)	(a)	(a)	1	3
Boric acid .. .. .	(a)	(a)	(a)	(a)	(a)	1	—
Belgium-Luxemburg E.U.—							
Borates .. .. .	—	—	—	(a)	(a)	(a)	1
Borax .. .. .	10	1	3	(a)	(a)	(a)	1,099
Boric acid .. .. .	9	23	—	(a)	(a)	(a)	56
Bulgaria—							
Borax and boric acid ..	134	89	—	9	77	(a)	(a)
Czechoslovakia—							
Borax .. .. .	(a)	(a)	(a)	(a)	{ 352	227	(e) 1,303
Boric acid .. .. .							
Denmark—							
Borax .. .. .	107	28	11	21	152	70	94
Borates and perborates ..	9	5	—	—	305	478	386
Boric acid .. .. .	17	37	—	22	259	145	20
Finland (total imports)—							
Borax .. .. .	24	48	10	39	344	293	302
Boric acid .. .. .	10	25	—	24	57	16	28
France—							
Borates .. .. .	2	—	—	3,380	3,878	7,232	—
Borax .. .. .	45	32	—	531	3,279	984	15
Borate of manganese ..	—	—	—	—	6	—	—
Boric acid .. .. .	10	1	6	75	840	285	49

(a) Information not available.  
(b) Includes trade by land as recorded.  
(c) February to September only.

(d) Sea-borne trade only.  
(e) January to October only.

## IMPORTS OF BORATES (Cont.)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Germany—							
Borates .. .. .	90	558	(b) 30	(a)	(a)	(a)	(a)
Borax and boric acid ..	436	354	(b) 1,266	(a)	(a)	(a)	(a)
Greece—							
Borax .. .. .	(a)	(a)	(a)	(a)	148	33	(a)
Netherlands—							
Borax .. .. .	49	1	(a)	(a)	2,164	4,519	2,447
Norway—							
Borax .. .. .	4	1	1	284	128	165	243
Boric acid .. .. .	2	—	55	19	83	84	125
Portugal—							
Borates .. .. .	282	447	574	232	438	846	317
Boric acid .. .. .	52	85	85	43	141	170	40
Spain—							
Borates .. .. .	50	50	148	84	11	5	49
Boric acid .. .. .	270	353	176	400	307	83	25
Sweden—							
Borax .. .. .	788	929	252	828	1,172	2,024	1,164
Boric acid .. .. .	227	105	225	150	474	412	72
Switzerland—							
Borax .. .. .	164	287	38	1,863	4,243	1,834	1,583
Algeria—							
Borax and boric acid ..	14	15	6	21	54	19	14
Egypt—							
Borax .. .. .	107	107	97	368	111	21	284
Boric acid .. .. .	15	8	35	121	24	5	44
Mozambique—							
Borax .. .. .	1	1	2	4	2	4	4
Boric acid .. .. .	—	1	2	4	6	5	1
Tunis—							
Borax .. .. .	35	—	8	18	9	1	16
Boric acid .. .. .	22	—	10	5	2	28	2
Mexico—							
Borax .. .. .	1,383	1,041	1,356	1,490	2,095	(a)	(a)
Boric acid .. .. .	110	115	159	134	256	(a)	(a)
Argentina—							
Borax .. .. .	5	2	—	51	5	(a)	(a)
Boric acid .. .. .	2	1	1	1	2	(a)	(a)
Brazil (total imports)—							
Borates .. .. .	103	63	235	48	58	92	10
Borax .. .. .	1,374	145	1,875	1,043	1,160	2,125	1,403
Boric acid .. .. .	200	25	300	217	91	286	114
Chile—							
Borates .. .. .	51	34	34	34	28	(a)	(a)
Boric acid .. .. .	—	—	1	1	3	(a)	(a)
Colombia—							
Borates .. .. .	197	249	(a) 102	146	99	(a)	(a)
Perborate of sodium ..	3	100	—	—	8	(a)	(a)
Boric acid .. .. .	96	73	44	85	25	(a)	(a)
Peru—							
Borax .. .. .	92	22	77	76	142	(a)	(a)
Uruguay—							
Borate of calcium ..	(a)	117	100	(a)	(a)	(a)	(a)
Venezuela—							
Borax .. .. .	14	32	(a)	40	8	(a)	(a)
Boric acid .. .. .	27	25	(a)	10	22	32	(a)
Japan (total imports)—							
Borax .. .. .	(a)	(a)	(a)	(a)	—	2,917	3,636
Syria and Lebanon—							
Borax .. .. .	—	2	(a)	1	—	(a)	(a)
Boric acid .. .. .	1	1	(a)	7	—	(a)	(a)
Turkey—							
Borax .. .. .	(a)	(a)	62	253	12	393	143
Boric acid .. .. .	(a)	(a)	—	107	9	1	5

(a) Information not available.

(b) January to July only.

**BROMINE**  
**PRODUCTION OF BROMINE**  
(lb. avdp.)

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
Palestine (c) .. ..	3,957,000	3,142,000	1,342,000	835,100	108,000	585,000	—
<b>FOREIGN COUNTRIES</b>							
France .. .. .	1,537,000	381,000	642,000	(a)	(b)1,475,000	3,014,000	2,200,000
Italy .. .. .	799,777	599,296	58,405	9,040	(a)	(a)	(a)
United States (c) .. ..	65,880,935	94,085,937	102,112,462	79,709,857	42,780,925	78,177,650	76,047,551
Japan .. .. .	661,000	728,000	750,000	(a)	(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	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom—							
Bromine .. .. .	1,120	1,340	340	220	31,360	8,736	6,496
Bromide of iron .. ..	2,500	—	—	—	(b)	(b)	(b)
Ethyl bromide .. ..	113	2	31	—	—	—	—
Other bromides .. ..	326,600	134,300	64,800	101,900	352,500	276,304	179,872
Palestine—							
Bromine .. .. .	117,700	500	17,600	143,300	127,200	397,714	122,797
Bromides .. .. .	(a)	(a)	(a)	1,032,000	92,000	20,503	5,512
<b>FOREIGN COUNTRIES</b>							
France—							
Bromine .. .. .	385,800	61,300	33,500	23,600	380,500	722,900	(a)
Bromides .. .. .	19,000	35,300	13,900	47,200	177,300	851,000	300,490
Germany—							
Bromine .. .. .	73,400	71,700	(c) 13,900	(a)	(a)	(a)	(a)
Bromides .. .. .	1,052,700	1,524,500	(c) 338,200	(a)	(a)	(a)	(a)
United States—							
Bromine .. .. .	180,029	10,566	29,391	178,041	} 2,170,136	} 1,792,269	} 1,054,523
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	328,934			

(a) Information not available.

(b) Included with "Other bromides."

(c) January to July only.



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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Bromine .. .. .	199,000	—	11,000	94,000	181,000	746,816	312,592
Bromides .. .. .	1,826,000	4,777,000	1,997,000	1,263,000	214,000	(b) 6,048	(b) 20,720
Union of South Africa—							
Bromine .. .. .	4	78	473	288	265	(a)	(a)
Canada—							
Bromine .. .. .	63,720	4,556	6,326	3,332	16,786	8,742	20,720
Bromides .. .. .	—	—	—	29,000	57,100	54,250	41,884
Australia (years ended June 30)—							
Bromine .. .. .	} 160,711	167,855	71,683	240,125	{ (£107) 93,556	(£745) 136,052	(£360) 225,578
Bromates and bromides..							
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Bromine .. .. .	7,900	5,500	14,000	(a)	(a)	(a)	(a)
Bulgaria—							
Bromine .. .. .	1,435	381	227	(a)	(a)	(a)	(a)
Czechoslovakia—							
Bromine .. .. .	(a)	(a)	(a)	(a)	—	20,503	(c) 25,133
France—							
Bromides .. .. .	—	—	—	—	—	220	(a)
Ethyl bromide, etc. ..	—	—	—	—	14,771	—	(a)
Germany—							
Bromine .. .. .	—	14,300	(b) 15,500	(a)	(a)	(a)	(a)
Norway—							
Bromine .. .. .	884	212	93	1,091	531	174	1,274
Portugal—							
Bromine .. .. .	1,365	383	392	7	408	328	644
Bromide of soda .. ..	6,889	8,161	1,598	836	1,462	1,863	448
Bromide of potash .. .	14,220	10,498	4,650	465	1,127	1,887	1,803
Bromide of ammonium..	12,461	915	672	278	344	157	375
Spain—							
Bromine .. .. .	2,820	3,190	1,616	772	3,948	4,969	—
Bromides .. .. .	182,071	103,518	5,368	1,797	13,135	13,803	224,058
Algeria—							
Bromine .. .. .	—	—	220	220	—	—	661
Bromides .. .. .	1,984	1,102	6,613	31,967	21,605	25,133	441
Mexico—							
Bromine .. .. .	2,956	2,921	3,926	1,177	1,188	(a)	(a)
Bromides of potash and soda .. .. .	34,471	20,527	26,248	14,707	12,548	(a)	(a)
United States—							
Bromine and compounds	2,092	63	165	76	(a)	131	102
Argentina—							
Bromine and bromides ..	29,473	11,164	1,806	4,733	23,395	(a)	(a)
Chile—							
Bromine .. .. .	456	498	234	646	666	(a)	(a)
Bromide of strontium ..	921	—	126	64	15	(a)	(a)
Colombia—							
Bromine .. .. .	(a)	(a)	(a)	159	176	(a)	(a)
Bromides.. .. .	(a)	(a)	(a)	4,299	6,942	(a)	(a)
Peru—							
Bromine .. .. .	198	276	1,213	150	216	(a)	(a)
Iran—							
Bromine .. .. .	—	—	(a)	(a)	—	90	(a)
Bromides.. .. .	2,306	1,030	(a)	(a)	5,569	2,545	(a)
Philippine Republic—							
Bromides.. .. .	(a)	(a)	(a)	670	9,040	(a)	(a)
Turkey—							
Bromine .. .. .	(a)	(a)	51	203	84	730	423
Bromides .. .. .	(a)	(a)	11,058	2,121	1,217	6108	6,944

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

(b) Excess of re-exports.

(c) January to October only.

# CADMIUM

## PRODUCTION OF CADMIUM

(lb. avdp.)

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom .. ..	351,053	417,178	455,347	491,100	268,800	234,662	255,226
South West Africa (b) ..	(a)	(a)	(a)	(a)	(a)	(a)	1,140,000
Canada .. .. .	1,148,963	786,611	526,970	646,064	802,648	718,534	766,090
Australia .. .. .	366,374	400,557	598,797	542,237	511,280	460,835	646,733
<b>FOREIGN COUNTRIES</b>							
France .. .. .	(c) 22,046	22,000	11,600	15,400	103,600	94,800	110,000
Germany .. .. .	536,000	608,000	461,000	(a)	(a)	(a)	(a)
Italy .. .. .	271,000	159,000	86,000	64,000	55,000	84,000	104,000
Norway .. .. .	29,723	25,033	23,400	28,700	61,700	110,200	136,700
Poland .. .. .	511,000	485,000	430,000	108,000	256,000	(d) 157,000	(a)
Belgian Congo .. .. .	60,000	50,899	48,483	40,153	36,533	57,408	39,700
Mexico (e) .. .. .	1,883,310	1,768,072	1,545,447	2,321,467	1,581,129	1,717,125	1,997,280
United States (f)—							
Metal .. .. .	7,323,346	8,396,292	8,453,470	7,932,579	6,200,398	8,007,287	7,582,961
Compounds(metal content)	47,623	70,671	326,386	451,050	270,789	500,859	192,696
Peru .. .. .	—	8,818	22,046	20,547	1,874	3,102	3,510
Japan .. .. .	225,000	247,000	187,000	(a)	(a)	(g) 15,997	41,610

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

(a) Information not available.

(b) Estimated cadmium content of copper-lead-zinc concentrates.

(c) American Bureau of Metal Statistics.

(d) January to July only.

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

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

1942 .. .. .	316,345	lbs.
1943 .. .. .	162,424	"
1944 .. .. .	106,850	"
1945 .. .. .	72,473	"
1946 .. .. .	355,104	"
1947 .. .. .	104,764	"
1948 .. .. .	121,159	"

(g) Year ended March 31 following that stated.

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

Exporting Country	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Metal .. .. .	287	784	—	112,100	82,706	4,717	5,141
Compounds .. .. .	(a)	(a)	(a)	(a)	301,600	93,296	(a)
South West Africa (b) .. .. .	—	—	(a)	(a)	(a)	(a)	896,000
Canada .. .. .	800,710	572,215	383,324	350,744	573,368	622,891	596,098
Australia .. .. .	130,928	160,496	200,256	507,472	297,920	215,040	194,880
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.	88,600	70,100	2,400	a)	(a)	(a)	(a)
France .. .. .	—	—	—	2	220	102	(a)
Poland .. .. .	(a)	(a)	(a)	88,184	220,462	(a)	(a)
Belgian Congo (c) .. .. .	53,298	40,355	53,082	25,798	(a)	(a)	(a)
Mexico (d) .. .. .	1,883,329	1,768,089	1,630,761	2,320,951	1,581,128	(a)	(a)
United States—							
Metal .. .. .	100,939	156,844	548,015	102,199	140,385	303,401	955,701
Alloys .. .. .	546	72,535	450	3	75	(a)	1,506
Cadmium salts .. .. .	76,825	19,307	23,488	10,895	(a)	(a)	(a)
Dross, flue dust, etc. .. .. .	(a)	520	2,686,360	2,333,720	459,775	18,251	92,847
Peru .. .. .	—	8,523	4,793	2,247	5,428	3,124	(a)

(a) Information not available.

(b) Cadmium content of concentrates exported for treatment.

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

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

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

Importing Country	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Cadmium .. .. .	996,779	228,945	430,994	699,636	767,993	781,282	1,043,665
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.	—	—	1,800	(a)	(a)	(a)	(a)
France—							
Cadmium .. .. .	78,500	42,100	(a)	120,152	925,941	490,528	(a)
Cadmium salts .. .. .	16,500	6,200	24,700	—	10,362	17,637	(a)
Sweden .. .. .	84,071	92,316	59,210	43,286	142,679	127,288	192,693
United States—							
Cadmium .. .. .	53,298	48,891	66,627	28,724	17,415	18,762	9,809
Flue dust (cadmium content) .. .. .	1,723,728	1,643,404	1,689,322	2,192,685	1,652,905	2,355,588	1,828,139
Argentina (cadmium and salts) .. .. .	1,188	71	7	60	7,348	(a)	(a)
Chile (cadmium and salts) .. .. .	60	88	35	18	77	(a)	(a)
Peru (cadmium salts) .. .. .	198	17	143	13	1,100	(a)	(a)
Turkey—							
Cadmium .. .. .	(a)	(a)	88	—	15	108	37
Cadmium salts .. .. .	(a)	(a)	11	115	170	659	271

(a) Information not available.

**CHINA CLAY**  
**PRODUCTION OF CHINA CLAY**  
(Long tons)

Producing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
Great Britain .. ..	195,906	177,617	192,871	234,999	406,379	513,792	(a)
Kenya (b) .. ..	(a)	1,388	3,457	1,627	1,372	306	764
Northern Rhodesia .. ..	—	4	1	—	—	—	—
Southern Rhodesia .. ..	130	56	119	9	—	—	—
Tanganyika Territory .. ..	37	113	219	296	180	234	136
Union of South Africa .. ..	6,179	5,637	4,360	4,429	5,379	4,390	4,752
Canada (sales) .. ..	364	83	379	398	733	—	—
Hong Kong (d) .. ..	(a)	(a)	(a)	(a)	294	8,430	9,433
India .. ..	58,028	39,613	46,471	67,285	74,701	57,273	(g) 41,243
Malaya .. ..	—	—	—	—	241	1,003	923
Australia (c) .. ..	8,750	7,194	9,704	9,380	12,205	9,902	30,021
New Zealand .. ..	—	—	—	—	95	1,353	1,321
<b>FOREIGN COUNTRIES</b>							
Austria .. ..	(a)	(a)	115,060	(a)	46,462	75,067	126,478
Bulgaria .. ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Czechoslovakia (estimated)	(a)	(a)	(a)	(a)	(a)	120,000	150,000
Denmark—							
Crude .. ..	9,000	11,200	10,900	6,900	4,400	4,875	3 633
Washed and pressed .. ..	8,100	9,350	8,760	6,600	5,200	3,943	6,966
Washed and unpressed .. ..	—	—	—	—	800	307	578
Washed waste .. ..	6,000	5,100	5,800	3,300	3,700	6,666	9,085
France .. ..	62,940	50,040	23,607	29,779	95,655	98,588	84,174
Germany—							
Bavaria .. ..	(a)	}	(a)	(a)	(a)	(a)	(a)
Prussia .. ..	80,983						
Saxony .. ..	291,702						
Italy—							
Crude and kaolinic earth	(e) 208,679	(f) 142,883	(f) 12,026	(f) 28,015	(f) 50,676	(a)	(a)
Portugal—							
Crude .. ..	13,977	9,838	11,579	14,423	} 19,254	13,101	{ 12,154
Washed .. ..	—	—	—	—			
Kaolinic sand (j) .. ..	206	144	—	237	232	374	318
Spain—							
Crude .. ..	16,314	13,989	13,486	25,840	29,881	22,939	35,104
Kaolinic sand (h) .. ..	11,000	—	(a)	(a)	(a)	(a)	(a)
Sweden .. ..	2,722	5,128	4,177	6,516	8,183	9,271	3,966
Algeria .. ..	(a)	(a)	945	1,210	14	282	1,178
Egypt .. ..	349	530	682	504	215	150	168
Eritrea .. ..	(a)	(a)	(a)	(a)	(a)	(a)	2,985
Madagascar .. ..	31	41	27	65	47	158	40
Morocco (Spanish) .. ..	(a)	(a)	(a)	1,860	9,389	2,465	2,359
Mozambique .. ..	—	—	—	—	18	—	—
United States (i) .. ..	845,168	829,855	779,514	839,275	1,180,628	1,272,416	1,400,757
Argentina .. ..	9,001	7,990	(a)	(a)	(a)	(a)	(a)
Brazil .. ..	12,541	(a)	(a)	(a)	(a)	(a)	(a)
Chile .. ..	2,004	(a)	331	3,545	6,362	8,440	12,769
Peru (i) .. ..	—	—	333	614	870	1,479	1,395
Jordan (exports) .. ..	979	2,423	2,168	—	—	—	—
Portuguese India (exports)	109	72	48	367	227	51	(a)

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

(a) Information not available.

(b) Including other clays.

(c) Excluding South Australia.

(d) Years ended October 31 of that stated.

(e) Including washed crude.

(f) Including bentonite.

(g) Incomplete.

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

(i) Sales.

(j) Kaolin content.

EXPORTS OF CHINA CLAY

(Domestic Produce)

(Long tons)

Exporting Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom .. ..	99,255	66,520	61,927	115,954	210,896	248,825	335,506
Tanganyika Territory ..	20	53	98	267	88	164	102
Union of South Africa ..	(a)	(a)	(a)	(a)	(a)	—	10
Malaya (b) .. ..	(a)	(a)	(a)	(a)	13	8	3
<b>FOREIGN COUNTRIES</b>							
Austria .. ..	(a)	(a)	(a)	(a)	(a)	6,019	9,522
Belgium-Luxemburg E.U. ..	853	2,520	246	(a)	(a)	(a)	522
Czechoslovakia .. ..	(a)	(a)	(a)	(a)	28,451	56,351	(c) 56,808
Denmark .. ..	313	1,620	1,959	615	89	163	10
France .. ..	9,196	4,231	2,466	272	6,531	10,583	8,630
Germany .. ..	110,304	114,128	(d) 56,274	(a)	(a)	(a)	(a)
Italy .. ..	(a)	(a)	(a)	(a)	(a)	179	403
Portugal .. ..	4,704	2,688	135	36	6,417	9,773	4,322
Spain .. ..	265	159	25	22	4	98	47
Sweden .. ..	—	—	—	3,033	3,990	3,404	941
Algeria .. ..	297	—	2	—	—	193	918
Morocco (Spanish) .. ..	(a)	(a)	(a)	1,860	(a)	(a)	(a)
United States .. ..	(a)	(a)	(a)	11,073	(a)	16,666	17,030
Argentina .. ..	4	17	—	97	5	(a)	(a)
Brazil .. ..	1,731	1,037	674	63	3	—	(a)
Chile .. ..	2,004	2,347	872	628	317	(a)	(a)
Jordan .. ..	979	2,423	2,168	—	—	—	—
Portuguese India .. ..	109	72	48	367	227	51	(a)

(a) Information not available.

(b) Including re-exports.

(c) January to October only.

(d) January to July only.

IMPORTS OF CHINA CLAY

(Less Re-exports)

(Long tons)

Importing Country	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom (b) ..	—	—	—	—	18	157	396
Union of South Africa (c) ..	107	39	22	148	365	(a)	(a)
Canada .. .. .	41,288	30,090	51,358	56,839	54,609	71,422	80,024
Newfoundland (e) .. ..	(a)	(a)	(a)	(a)	—	958	1,027
India .. .. .	5,036	183	228	333	307	890	1,510
Malaya (total imports) ..	(a)	(a)	(a)	(a)	28	12	106
FOREIGN COUNTRIES							
Austria .. .. .	(a)	(a)	(a)	(a)	(a)	524	1,281
Belgium-Luxemburg E.U.	13,764	16,011	5,652	(a)	(a)	(a)	40,887
Czechoslovakia .. .. .	(a)	(a)	(a)	(a)	—	30	—
Denmark—							
Crude .. .. .	320	254	198	—	1,006	2,594	736
Washed .. .. .	3,379	2,824	3,506	384	8,594	13,538	11,563
Finland (total imports) ..	10,769	13,820	10,255	11,665	19,435	24,883	35,764
France .. .. .	1,588	1,584	310	14	271	9,641	14,645
Germany .. .. .	11,197	5,482	(d) 2,236	(a)	(a)	(a)	(a)
Italy .. .. .	21,903	(a)	(a)	(a)	(a)	14,578	18,037
Norway .. .. .	2,673	2,769	2,569	2,940	10,791	15,504	19,500
Poland .. .. .	(a)	(a)	(a)	(a)	(a)	19,073	(a)
Portugal .. .. .	62	52	66	104	101	107	82
Spain .. .. .	5,940	3,476	571	294	511	51	119
Sweden .. .. .	16,745	20,460	16,368	16,341	32,084	33,841	44,291
Algeria .. .. .	52	—	3	—	94	88	360
United States .. .. .	56,498	49,612	40,973	51,323	79,672	73,757	89,102
Argentina .. .. .	4,236	5,896	3,713	2,455	4,878	(a)	(a)
Chile .. .. .	7	16	30	92	24	(a)	(a)
Colombia .. .. .	8	41	(a)	55	21	(a)	(a)
Peru .. .. .	103	39	88	29	71	(a)	(a)
Uruguay .. .. .	(a)	619	1,051	(a)	(a)	(a)	(a)
Japan .. .. .	(a)	(a)	(a)	(a)	(a)	94	(a)
Turkey .. .. .	(a)	(a)	15	29	133	317	78

(a) Information not available.

(b) Including Ball clay.

(c) Including Cornish or china stone.

(d) January to July only.

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

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

Producing Country	Estimated Cr <sub>2</sub> O <sub>3</sub> content*							
	1942	1943	1944	1945	1946	1947	1948	
<b>BRITISH COUNTRIES</b>								
Great Britain ..	512	289	114	—	—	—	(a)	(a)
Sierra Leone ..	10,557	16,048	9,695	16,504	16,504	16,504	7,761	7,761
Southern Rhodesia ..	342,815	282,914	272,677	149,043	152,699	152,699	227,061	227,061
Union of South Africa ..	332,289	160,654	87,505	208,902	406,266	406,266	149,165	149,165
Canada ..	10,228	26,424	24,155	2,777	1,931	1,931	4,800	4,800
Cyprus (c) ..	8,298	2,429	662	732	4,840	4,840	3,983	3,983
India ..	49,584	33,255	39,355	31,142	44,792	44,792	24,800	24,800
Pakistan ..	359	986	768	—	—	—	140	140
Australia ..	—	—	—	—	—	—	—	—
<b>TOTAL ..</b>	<b>754,600</b>	<b>523,000</b>	<b>435,000</b>	<b>318,800</b>	<b>418,300</b>	<b>598,400</b>	<b>693,400</b>	<b>693,400</b>
<b>FOREIGN COUNTRIES</b>								
Albania ..	37,200	(b) 30,600	(a)	(a)	(a)	(a)	(a)	(a)
Bulgaria ..	5,000	5,000	5,000	—	—	—	—	—
Greece ..	23,900	15,300	18,000	8,919	2,598	2,598	—	—
Portugal ..	1,255	1,247	1,093	602	210	210	173	173
Sweden ..	79	220	125	—	—	—	—	—
U.S.S.R. (estimated)	(c) 400,000	(c) 325,000	(a)	(a)	(a)	(a)	(a)	(a)
Yugoslavia ..	307	896	148	262	188	188	—	—
Egypt ..	261,846	304,297	208,457	188,646	108,619	114,782	87,000	87,000
Cuba ..	521	368	95	435	600	615	280	280
Guatemala ..	17	—	—	—	—	—	(a)	(a)
Mexico ..	100,782	142,964	40,740	3,667	846	846	40,000	40,000
United States ..	207	246	178	2,953	(a)	(a)	46	46
Argentina ..	5,685	7,690	4,647	1,466	171	1,600	2,000	2,000
Brazil (exports) ..	3,514	6,400	2,300	—	—	—	(a)	(a)
French Indo-China ..	66,473	57,596	70,012	42,827	4,358	2,825	(a)	(a)
Japan ..	(d) 32,782	(d) 37,353	(d) 15,236	3,474	57,000	192,102	252,796	252,796
Philippine Republic ..	137,991	158,229	181,658	144,676	101,538	197,000	62,000	62,000
Turkey ..	66,542	46,210	54,357	58,883	24,556	49,732	32,000	32,000
New Caledonia ..	—	—	—	—	—	—	—	—
<b>TOTAL ..</b>	<b>1,200,000</b>	<b>1,200,000</b>	<b>1,000,000</b>	<b>800,000</b>	<b>750,000</b>	<b>1,000,000</b>	<b>1,250,000</b>	<b>1,250,000</b>
<b>WORLD'S TOTAL ..</b>	<b>2,000,000</b>	<b>1,800,000</b>	<b>1,400,000</b>	<b>1,100,000</b>	<b>1,150,000</b>	<b>1,598,000</b>	<b>1,943,000</b>	<b>1,943,000</b>

\* 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) January to September only. (c) Planned production. (d) Imports into Japan from Philippine Republic.  
Figures which previously referred to mined production now relate to available production.

EXPORTS OF CHROME ORE, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Chromium metal ..	20	29	—	86	37	8	83
Ferro-chrome .. ..	5	3	—	42	85	57	21
Chromates of potash ..	104	63	133	238	460	24	424
Chromates of soda ..	1,524	2,009	1,657	1,403	1,678	203	(a)
Sierra Leone—							
Ore .. .. .	16	—	—	11,595	31,301	22,687	8,411
Southern Rhodesia—							
Ore .. .. .	342,555	262,068	267,336	204,443	149,557	160,372	222,454
Union of South Africa—							
Ore .. .. .	265,519	96,736	50,502	171,279	238,668	291,547	297,204
Canada—							
Ferro-chrome .. ..	(a)	(a)	(a)	(a)	5,604	24,762	20,103
India (b)—							
Ore .. .. .	52,366	23,055	22,196	10,528	16,448	28,766	4,477
Cyprus—							
Ore and concentrates ..	2,890	7,860	462	1,054	1,140	5,200	6,790
Australia—							
Ore .. .. .	—	—	—	—	5	—	2
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Chromates of potash and soda .. .. .	5	37	—	(a)	(a)	(a)	215
France—							
Ore .. .. .	2,124	—	(a)	—	—	—	(a)
Ferro-chrome .. ..	1,160	29	10	1	39	37	(a)
Chromates, chrome alum, etc. .. .. .	65	—	(a)	2	119	310	292
Germany—							
Chromates of potash and soda, and oxides of chromium .. ..	415	895	(c) 645	(a)	(a)	(a)	(a)
Netherlands—							
Chromium compounds..	9	—	(a)	(a)	—	—	10
Norway—							
Ferro-chrome .. ..	2,219	6,167	5,226	623	4,492	11,487	15,464
Portugal—							
Ore .. .. .	1,166	1,173	704	1,050	918	801	49
Sweden—							
Ore .. .. .	46	—	—	—	202	20	(a)
Ferro-chrome .. ..	878	15	—	177	1,952	3,650	271
Chromates and chrome alum .. .. .	389	521	357	832	1,501	2,533	2,478
Switzerland—							
Ferro-chrome, including ferro-silicon .. ..	105	21	597	2	77	540	1,728
U.S.S.R.—							
Ore (d) .. .. .	41,151	89,216	100,282	162,546	99,562	241,827	357,906

(a) Information not available.

(b) Excluding chrome ore mined in British India, but exported via the Portuguese port of Mormugao—1942 3,500 tons—1943, 407 tons—1944-Nil, 1945-Nil, 1946-Nil, 1947, 8,849 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.



## EXPORTS OF CHROME ORE, ETC. (Cont.)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Cuba—							
Ore .. .. .	139,543	285,979	316,267	270,010	173,065	100,135	(a)
United States—							
Ore .. .. .	4,235	23,445	910	11,041	1,927	3,067	2,584
Ferro-chrome .. ..	4,982	2,107	475	1,313	2,241	2,751	6,030
Chromates of potash ..	1,154	1,050	554	665	(a)	1,000	1,167
Chromates of soda ..	7,108	5,271	2,810	3,325	8,491	5,247	5,405
Brazil—							
Ore .. .. .	5,685	7,690	4,647	1,466	171	—	1,600
Philippine Republic—							
Ore (b) .. .. .	32,783	37,352	15,236	3,474	(a)	189,500	238,158
Turkey—							
Ore .. .. .	142,000	78,000	146,831	61,692	35,756	180,874	301,271
New Caledonia—							
Ore .. .. .	84,758	42,330	16,981	50,147	63,619	43,062	69,066

(a) Information not available.

(b) Imports into Japan from Philippine Republic.

IMPORTS OF CHROME ORE, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Ore .. .. .	99,634	36,627	93,770	42,887	65,753	87,751	114,715
Ferro-chrome .. .. .	16,890	28,254	11,274	2,999	3,683	20,815	15,773
Chromates of soda .. .. .	52	—	—	—	1	74	(a)
Canada—							
Ore .. .. .	78,240	92,385	34,901	54,188	14,139	87,788	61,771
Bichromate of potash .. .. .	177	92	78	94	117	142	77
Bichromate of soda .. .. .	2,357	1,435	1,431	1,843	2,146	2,035	2,048
India (total imports)—							
Bichromate of potash .. .. .	5	—	22	7	—	50	3
Bichromate of soda .. .. .	1,661	1,593	1,996	—	—	—	132
Palestine—							
Ore .. .. .	—	—	—	809	—	(a)	(a)
Australia—							
Ore .. .. .	5,589	24,619	—	2,391	—	1,360	2,606
Bichromate of potash .. .. .	79	22	74	125	61	5	37
FOREIGN COUNTRIES							
Austria—							
Ferro-chrome .. .. .	(a)	(a)	(a)	(a)	(a)	(a)	2,111
Chromates .. .. .	(a)	(a)	(a)	(a)	(a)	33	225
Belgium-Luxemburg E.U.—							
Chromates of potash and soda .. .. .	10	4	6	(a)	(a)	(a)	250
Bulgaria—							
Chromates of potash .. .. .	17	32	37	—	19	(a)	(a)
Czechoslovakia—							
Ore .. .. .	(a)	(a)	(a)	(a)	3,357	2,935	(b) 2,043
Chromates of potash and soda .. .. .							
Denmark—							
Chromates of potash and soda .. .. .	12	35	184	114	375	105	321
Finland (total imports)—							
Ferro-chrome .. .. .	60	29	26	59	157	132	206
Chromates of potash and soda .. .. .	17	32	84	2	150	150	68
Chrome sulphate .. .. .	190	207	60	—	155	156	381
France—							
Ore .. .. .	—	578	775	8,496	45,978	42,365	(c) 37,692
Ferro-chrome .. .. .	4	286	355	507	134	832	(a)
Chromates of potash and soda .. .. .	30	2	2	39	108	65	540
Other chromates .. .. .	3	—	—	10	45	951	609
Chrome alum .. .. .	7	—	—	—	30	37	(a)
Germany—							
Ore .. .. .	163,185	180,843	(d) 64,027	(a)	(a)	(a)	(a)
Italy—							
Ore .. .. .	37,725	19,487	(a)	(a)	2,950	2,923	(a)
Ferro-chrome .. .. .	1,522	70	(a)	—	116	80	524
Netherlands—							
Chromium compounds	78	419	(a)	(a)	900	1,702	1,575

(a) Information not available.

(b) January to October only.

(c) Imports from Turkey and New Caledonia only.

(d) January to July only.

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Norway—							
Ore .. .. .	4,897	18,052	18,892	—	9,571	51,088	50,524
Portugal—							
Chromates of potash and soda .. .. .	12	13	16	48	348	79	3
Chrome alum .. .. .	1	19	25	13	43	32	—
Spain—							
Chromates .. .. .	13	150	48	112	329	59	91
Sweden—							
Ore .. .. .	10	165	34	12,947	45,357	56,258	26,273
Ferro-chrome .. .. .	111	35	25	16	725	1,116	2,140
Chrome alum .. .. .	10	—	—	—	6	19	10
Chromates .. .. .	6	113	166	123	532	315	606
Switzerland—							
Ferro-chrome and ferro-silicon .. .. .	234	173	94	127	2,260	2,769	5,418
Egypt—							
Chromates of potash and soda .. .. .	323	232	139	193	632	600	572
Mexico—							
Chromates .. .. .	1,175	352	103	610	1,076	(a)	(a)
United States—							
Ore .. .. .	876,435	829,085	757,491	826,684	676,242	987,660	1,376,853
(Cr <sub>2</sub> O <sub>3</sub> content) ..	402,154	361,037	325,699	363,568	296,836	433,921	607,765
Ferro-chrome (Cr content)	342	279	703	3,860	(a)	5,759	4,209
Metal and alloys ..	—	—	—	—	(a)	99	—
Argentina—							
Bichromate of potash ..	233	72	8	2	88	(a)	(a)
Bichromate of soda ..	744	265	282	881	652	(a)	(a)
Chromate of lead .. ..	39	67	2	120	164	(a)	(a)
Chrome alum .. .. .	11	—	—	64	53	(a)	(a)
Brazil—							
Chromates of potash and soda .. .. .	659	621	260	300	1,477	388	(a)
Other chromium salts ..	12	7	26	46	125	149	(a)
Chile—							
Ferro-chrome .. .. .	64	23	16	11	22	(a)	(a)
Bichromate of potash ..	42	64	10	10	86	(a)	(a)
Bichromate of soda ..	221	300	115	154	518	(a)	(a)
Colombia—							
Chromates .. .. .	115	761	219	110	119	(a)	(a)
Peru—							
Chromium compounds ..	274	296	235	115	210	(a)	(a)
Japan—							
Ore .. .. .	32,783	39,205	18,228	3,474	(a)	(a)	(a)
Turkey—							
Chromates .. .. .	(a)	(a)	62	43	—	80	43
Chrome alum .. .. .	(a)	(a)	—	67	—	—	25

(a) Information not available.

(b) January to July only.

# COAL, COKE AND BY-PRODUCTS

## PRODUCTION OF COAL (Including Brown Coal and Lignite)

(Long tons)

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
Great Britain—							
Mined—							
Anthracite .. ..	4,282,591	4,130,378	3,595,178	3,162,645	3,525,550	3,599,250	3,796,000
Bituminous .. ..	199,350,847	190,362,570	180,503,176	171,495,258	177,717,403	183,603,569	193,849,700
Opencast .. ..	1,308,200	4,426,700	8,647,300	8,114,800	8,822,400	b 10,390,758	(b)11,748,300
Northern Ireland—							
Bituminous .. ..	410	480	550	680	640	1,300	1,420
Lignite .. ..	1,463	1,273	1,660	2,546	174	386	70
Nigeria .. ..	460,719	505,535	613,926	512,552	607,652	579,354	607,757
Southern Rhodesia .. ..	1,535,934	1,759,539	1,779,177	1,642,485	1,587,243	1,484,163	1,668,454
Union of South Africa .. ..	20,085,381	20,236,091	22,623,857	23,182,397	23,229,292	23,127,179	23,637,909
Canada—							
Bituminous .. ..	13,234,134	11,927,379	11,596,721	10,512,646	11,474,433	9,877,375	12,206,893
Sub-bituminous .. ..	2,446,803	2,529,841	2,379,826	2,856,745	3,068,654	2,888,446	2,847,140
Lignite .. ..	1,162,840	1,488,367	1,225,684	1,368,746	1,360,258	1,402,810	1,418,904
India .. ..	} 29,433,253	25,512,109	26,126,676	29,167,152	29,709,346	{ 301,445,050	30,124,175
Pakistan .. ..							
Malaya .. ..	244,590	489,442	409,100	226,702	224,674	226,301	375,460
Australia—							
Bituminous .. ..	14,378,839	14,192,942	13,721,468	12,812,368	13,776,383	14,663,157	14,543,567
Sub-bituminous .. ..	1,650	—	34,620	41,452	135,460	193,351	239,464
Lignite .. ..	4,933,861	5,091,729	5,016,437	5,445,108	5,707,039	6,140,173	6,692,413
New Zealand—							
Anthracite .. ..	(c)	(c)	(c)	2,531	2,272	1,606	1,705
Bituminous .. ..	1,174,725	1,138,922	1,068,082	962,215	955,998	934,365	950,901
Sub-bituminous .. ..	1,229,271	1,504,241	1,540,916	1,623,336	1,569,020	1,504,942	1,508,045
Lignite .. ..	276,045	144,705	196,972	245,494	266,580	310,810	315,195
<b>TOTAL .. ..</b>	<b>296,000,000</b>	<b>286,000,000</b>	<b>281,000,000</b>	<b>273,589,000</b>	<b>283,953,000</b>	<b>291,599,000</b>	<b>306,780,000</b>
Irish Republic—							
Anthracite .. ..	63,156	47,020	65,535	53,121	56,943	48,723	39,197
do. dust .. ..	51,297	74,418	62,606	68,397	63,779	71,266	48,033
Semi-bituminous .. ..	50,312	61,886	74,122	90,962	90,553	97,885	81,956

(a) Information not available.

(b) Production of Opencast coal by kinds was as follows (long tons):—  
1947—Anthracite 234,670, Bituminous 10,093,883 and Lignite 62,205.  
1948— .. 223,000, .. 11,525,300 .. Nil.

(c) Included with Lignite.

## PRODUCTION OF COAL (Cont.)

Producing Country	1942	1943	1944	1945	1946	1947	1948			
FOREIGN COUNTRIES										
Albania—										
Lignite (estimated) ..	(a)	(a)	(a)	16,000	16,000	16,000	16,000			
Austria—										
Bituminous .. ..	221,162	210,805	191,432	70,485	106,625	175,334	175,008			
Brown coal .. ..	3,474,359	3,588,250	3,615,539	2,033,352	2,364,186	2,791,133	3,285,249			
Belgium .. ..	24,659,724	23,369,979	13,291,658	15,582,969	22,419,149	24,004,902	26,257,545			
Bulgaria—										
Anthracite (estimated) ..	27,000	27,000	27,000	27,000	27,000	27,000	(b)			
Bituminous (estimated) ..	200,000	200,000	200,000	200,000	200,000	200,000	295,487			
Lignite .. ..	3,609,045	3,952,341	3,055,784	3,502,231	3,465,843	3,978,713	(c)3,514,141			
Czechoslovakia—										
Bituminous .. ..	22,416,000	24,223,000	22,865,000	11,530,951	13,913,000	16,047,254	17,465,474			
Brown coal .. ..	23,751,000	27,152,000	26,432,000	15,113,522	19,204,000	22,030,861	23,217,014			
Denmark—										
Lignite .. ..	1,747,000	2,575,000	2,164,000	2,283,000	2,275,000	2,758,000	(a)			
France (d)—										
Anthracite (e) .. ..	560,000	560,000	344,000	463,000	580,000	603,960	515,410			
Bituminous .. ..	40,648,052	39,331,322	24,514,977	32,323,983	45,860,000	43,898,169	42,612,000			
Lignite .. ..	1,926,554	1,865,868	1,322,764	1,676,702	2,070,809	2,060,164	1,807,000			
Germany—										
Bituminous .. ..	155,756,000	156,111,000	133,198,000	40,557,000	64,651,000	84,334,000	f 99,302,000			
Brown coal .. ..	243,273,000	250,583,000	227,162,000	117,880,000	157,351,000	158,060,000	f 63,949,000			
Greece—										
Lignite .. ..	360,000	365,000	190,000	70,000	122,016	130,900	(a)			
Hungary—										
Bituminous .. ..	1,230,000	1,351,000	(g)1,240,000	697,000	709,000	1,043,000	1,206,000			
Brown coal and lignite ..	11,056,900	10,618,300	(g)9,921,000	3,520,000	5,539,000	7,627,000	(a)			
Italy—										
Anthracite .. ..	160,982	120,147	58,096	60,289	103,331	114,299	85,156			
Bituminous .. ..	2,320,817	1,216,744	544,950	685,007	1,056,048	1,222,253	871,923			
Brown coal .. ..	2,267,573	1,903,148	488,619	755,118	1,496,918	1,821,550	892,971			
Netherlands—										
Bituminous .. ..	12,134,994	12,299,728	8,181,443	5,016,074	8,182,522	9,940,824	10,858,086			
Brown coal .. ..	274,748	377,043	239,215	125,402	493,266	466,463	274,554			
Poland—										
Bituminous .. ..	82,645,992	89,645,992	86,008,608	26,933,847	46,541,155	58,196,455	69,152,000			
Brown coal .. ..								1,431,712	4,690,700	4,960,000
Portugal—										
Anthracite .. ..	465,434	348,506	371,031	429,229	373,532	364,301	380,661			
Bituminous .. ..	24,814	35,894	32,535	—	—	—	—			
Brown coal .. ..	106,453	106,529	123,585	160,278	138,649	106,020	101,622			
Roumania—										
Anthracite .. ..	281,000	(a)	(a)	16,545	14,757	23,404	(a)			
Bituminous .. ..								191,281	148,807	137,173
Brown coal .. ..								1,484,006	1,402,339	1,632,469
Lignite .. ..								306,983	413,844	439,674
Spain—										
Anthracite .. ..	1,223,302	1,133,571	1,492,091	1,505,375	1,434,509	1,389,062	1,439,634			
Bituminous .. ..	7,887,682	8,305,537	8,827,052	9,057,198	9,154,183	9,049,522	9,019,408			
Lignite .. ..	1,088,100	1,094,453	1,183,233	1,329,440	1,315,003	1,243,050	1,378,062			
Spitzbergen and Bear Island	(a)	(a)	(a)	5,912	94,911	331,184	507,979			
Sweden .. ..	573,086	548,708	561,230	605,618	480,467	409,218	368,532			
Switzerland—										
Bituminous .. ..	106,670	100,858	50,420	99,940	73,367	26,477	—			
Brown coal .. ..	97,344	125,134	91,960	205,984	101,633	(a)	(a)			

(a) Information not available.

(b) Included with Lignite.

(c) Including Anthracite.

(d) Excludes Alsace-Lorraine from 1942 to 1944.

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

(f) Bizonal area and the French Zone, including the Saar. Figures for the Russian Zone are not available; estimates are included in the totals.

(g) January to October only.

## PRODUCTION OF COAL (Cont.)

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
U.S.S.R. (b) .. ..	(a)	(a)	(a)	140,000,000	157,000,000	175,900,000	200,600,000
Yugoslavia (f) .. ..	(a)	(a)	(a)	(a)	10,046,000	13,723,000	11,300,000
Algeria—							
Bituminous .. ..	145,600	114,483	116,830	159,781	211,496	201,369	219,070
Lignite .. ..	7,000	1,461	504	—	—	—	—
Belgian Congo .. ..	42,581	68,000	48,000	49,553	100,292	100,462	115,638
Madagascar .. ..	2,044	905	1,752	3,140	371	—	—
Morocco (French)—							
Anthracite .. ..	117,514	100,674	132,277	175,800	218,248	264,300	285,700
Mozambique .. ..	6,689	13,267	15,558	11,684	16,038	15,917	8,938
Tunis—							
Lignite .. ..	138,655	40,490	64,730	67,512	93,465	75,166	69,300
Greenland .. ..	5,000	7,000	8,000	7,000	8,000	7,000	8,000
Mexico .. ..	893,216	1,036,847	889,300	900,000	967,300	1,022,800	1,040,528
United States—							
Anthracite .. ..	53,864,044	54,146,089	56,876,217	49,048,133	54,023,994	51,062,508	51,017,811
Bituminous .. ..	517,644,889	524,488,995	550,912,571	513,347,336	474,334,329	560,491,132	532,528,877
Lignite .. ..	2,616,662	2,454,815	2,280,500	2,382,420	2,381,803	2,565,762	2,755,255
Argentina .. ..	4,768	7,396	8,900	6,600	(a)	(a)	(a)
Brazil .. ..	1,746,623	2,045,433	1,826,284	2,040,142	1,866,764	1,967,326	1,993,007
Chile—							
Bituminous .. ..	2,116,830	2,229,353	2,243,437	2,045,702	1,923,201	2,046,279	2,198,774
Colombia .. ..	408,834	468,157	491,285	526,000	542,000	497,000	(a)
Peru—							
Anthracite .. ..	4,921	22,357	14,315	36,266	80,793	80,749	41,620
Bituminous .. ..	142,315	161,685	156,306	161,818	145,388	131,182	140,797
Venezuela .. ..	8,553	11,261	8,529	6,911	3,564	3,021	20,291
China—							
"Free" .. ..	6,214,000	6,513,000	5,415,000	5,155,000	18,118,000	(a)	(a)
North and Central (c) ..	25,399,000	22,256,000	20,872,000	(a)	(a)	(a)	(a)
Formosa (c) .. ..	2,275,000	2,287,000	1,627,000	(a)	(a)	(a)	(a)
French Indo-China—							
Anthracite .. ..	1,141,000	940,000	482,000	318,000	257,600	243,531	353,000
Bituminous, etc. .. ..	82,300	64,800	46,000	13,000	—	—	—
Iran (b) .. ..	(a)	(a)	(a)	(a)	150,000	150,000	150,000
Japan (c) -							
Bituminous .. ..	53,323,000	54,662,000	48,556,000	22,015,000	20,054,000	26,805,000	33,192,000
Lignite .. ..	1,583,000	2,835,000	2,268,000	1,618,000	2,315,000	2,776,000	2,512,000
Karafuto (c) .. ..	4,832,000	4,900,000	2,636,000	(a)	(a)	(a)	(a)
Korea (c) .. ..	6,540,000	6,470,000	6,926,000	(a)	(e) 272,755	(e) 459,896	769,836
Lebanon—							
Lignite .. ..	7,207	1,100	(a)	(a)	(a)	(a)	354
Manchuria (c) .. ..	23,787,000	24,989,000	25,222,000	(a)	(a)	(a)	(a)
Netherlands East Indies ..	(d) 100,000	(d) 100,000	(d) 100,000	(d) 100,000	75,702	294,188	529,000
Philippine Republic .. ..	(a)	(a)	(a)	(a)	47,000	73,000	87,000
Turkey—							
Bituminous .. ..	2,469,978	3,115,743	3,503,625	3,660,960	3,770,038	3,882,811	3,959,283
Lignite .. ..	384,232	614,921	751,641	713,766	594,000	809,934	983,268
TOTAL .. ..	1,460,000,000	1,480,000,000	1,420,000,000	1,050,000,000	1,160,000,000	1,330,000,000	1,360,000,000
WORLD'S TOTAL	1,756,000,000	1,770,000,000	1,700,000,000	1,324,000,000	1,445,000,000	1,622,000,000	1,668,000,000

(a) Information not available.

(b) Estimated.

(c) Years ended March 31 following that stated for the years 1942 to 1945.

(d) Average annual production during Japanese occupation.

(e) Southern Korea only.

(f) U.S. Bureau of Mines.

PRODUCTION OF COKE  
(Long tons)

Producing Country	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
Great Britain—							
Gas-works—coke ..	11,163,479	11,370,354	11,456,759	11,596,308	12,475,631	12,389,929	13,626,600
breeze ..	1,985,285	2,077,568	2,074,837	2,154,625	2,306,456	2,331,243	2,533,300
Coke-ovens—coke ..	14,899,563	14,452,459	14,081,354	13,985,727	13,914,243	13,814,947	15,422,800
breeze ..	791,910	759,404	766,452	741,738	945,705	782,001	858,000
Northern Ireland—							
Gas-works (estimated) ..	120,000	120,000	120,000	120,000	120,000	120,000	120,000
Southern Rhodesia ..							
	70,275	77,326	78,596	83,760	84,465	62,684	78,109
Union of South Africa—							
Coke-ovens .. ..	640,646	644,985	663,113	680,107	692,249	655,011	789,561
Gas-works .. ..	(a)	(a)	(a)	(a)	29,062	(a)	(a)
Canada—							
Gas-works—coke ..	253,852	243,930	241,648	241,980	231,398	233,107	236,029
breeze ..	12,725	31,093	30,934	32,760	5,137	2,545	2,326
Coke-ovens—coke ..	2,496,123	2,666,578	3,069,246	2,975,516	2,551,429	2,654,487	3,067,502
breeze ..	152,969	229,625	245,401	242,887	214,812	247,496	217,157
India—							
Hard .. ..	2,095,548	1,786,855	1,603,909	1,634,005	1,674,997	(a)	(a)
Soft .. ..	504,491	416,102	445,721	547,292	627,622	(a)	(a)
Australia (d)—							
Gas-works—coke ..	866,800	956,896	992,898	1,032,950	1,027,157	1,072,906	1,170,545
breeze ..	188,525	40,798	175,094	50,480	51,845	55,546	60,556
Coke-ovens—coke ..	1,710,668	1,606,713	1,485,342	1,223,892	986,005	1,197,636	1,384,238
breeze ..	146,082	92,658	126,221	102,402	78,466	93,403	111,062
New Zealand (e)—							
Gas-works .. ..	89,123	96,703	98,758	93,412	88,554	91,605	(a)
Irish Republic—							
Gas-works (c) .. ..	(b) 95,000	80,099	75,627	95,415	121,019	79,978	77,867
FOREIGN COUNTRIES							
Austria—							
Gas-works .. ..	558,356	590,762	504,292	(a)	299,821	283,121	309,700
Coke-ovens .. ..	(a)	(a)	(a)	(a)	112,601	338,962	581,700
Belgium—							
Coke-ovens .. ..	4,337,476	4,341,275	2,012,279	2,006,580	3,798,623	4,654,824	5,438,705
Bulgaria—							
Coke-ovens .. ..	(a)	(a)	(a)	(a)	(a)	(a)	8,341
Czecho-Slovakia—							
Gas-works .. ..	378,461	396,194	406,892	286,172	371,312	4,074,614	(f)4,542,100
Coke-ovens .. ..	3,827,913	4,212,940	4,456,959	1,870,540	2,215,115		
Denmark (gas-works) (g) ..	418,601	418,968	343,610	416,692	336,113	481,538	505,734
Finland (gas-works) ..	90,033	90,056	75,989	64,532	56,650	55,914	62,961
France—							
Gas-works .. ..	1,055,689	944,986	314,621	563,658	1,180,393	1,652,089	1,450,300
Coke-ovens .. ..	4,929,260	4,910,777	2,862,717	2,687,361	5,069,425	5,907,800	6,003,300
Semi-coke .. ..	191,200	204,375	146,740	140,872	165,330	182,672	198,400
Germany—							
Coke-ovens—Hard coke	50,428,240	51,928,000	51,572,000	(h) 5,201,000	(i)9,556,000	(i)14,886,000	(i)19,487,000
do. Brown-coal coke	(a)	(a)	(a)	(h) 210,000	(h) 292,000	(h) 356,000	(h) 444,000

(a) Information not available.

(b) Estimated.

(c) Including coke-breeze.

(d) Years ended June 30 of that stated.

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

(f) January to October only.

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

(h) British and American Zones

(i) British, American and French Zones.

## PRODUCTION OF COKE (Cont.)

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
<b>Italy—</b>							
Gas-works .. ..	(a)	(a)	(a)	(a)	(a)	773,530	} 2,252,011
Coke-ovens .. ..	1,641,841	1,507,627	490,947	(a)	38,504	945,523	
<b>Netherlands—</b>							
Gas-works .. ..	729,400	761,507	(b) 440,292	(c) 98,500	488,594	938,000	988,000
Coke-ovens .. ..	2,016,455	2,129,269	1,550,486	842,027	1,287,110	1,746,000	2,205,000
Norway (gas-works) ..	46,722	48,104	47,346	17,124	51,024	54,982	(a)
<b>Poland—</b>							
Gas-works .. ..	(a)	(a)	(a)	(a)	497,752	693,351	} 5,011,000
Coke-ovens .. ..	3,120,000	3,199,000	(a)	(a)	3,019,555	3,703,348	
Semi-coke .. ..	(a)	(a)	(a)	(a)	8,640	55,037	
<b>Portugal (gas-works)—</b>							
Coke .. ..	18,382	25,741	21,644	18,859	18,291	22,529	23,432
Breeze .. ..	—	206	3,074	3,396	4,532	4,958	6,997
Coke dust .. ..	—	134	3,085	2,660	3,476	5,909	7,165
<b>Spain—</b>							
Gas-works .. ..	145,390	167,330	169,145	136,000	181,600	151,606	186,900
Coke-ovens .. ..	801,493	788,469	848,951	758,200	746,500	802,761	834,976
Sweden (including breeze)	605,660	614,197	589,308	426,286	403,564	631,296	684,637
<b>Switzerland—</b>							
Gas-works .. ..	348,462	302,068	304,862	129,007	177,321	331,648	400,600
Algeria (gas-works) ..	(a)	(a)	(a)	76,404	77,437	81,586	91,546
Canary Islands (gas-works)	3,718	3,525	3,500	3,825	3,500	2,907	2,029
Tunis (gas-works) .. ..	8,533	5,610	10,019	13,587	10,573	10,028	10,680
<b>United States—</b>							
<b>Coke-ovens—</b>							
Coke .. ..	52,322,767	53,337,069	56,360,296	52,169,711	45,052,916	56,406,616	57,884,486
Breeze and screenings	3,865,635	3,996,743	4,121,972	3,819,036	3,498,954	4,629,682	4,825,671
<b>Coke-ovens (gas-works)</b>							
<b>(d)—</b>							
Coke .. ..	3,297,685	3,576,032	3,518,983	3,271,618	3,098,376	3,199,231	3,083,690
Breeze and screenings	241,535	279,658	311,121	313,587	279,843	257,919	322,164
<b>Beehive—</b>							
Coke .. ..	7,387,531	7,083,381	6,225,912	4,655,262	4,078,929	5,970,804	5,872,831
Breeze and screenings	135,404	135,128	134,955	82,405	67,871	114,310	96,667
<b>Gas-works—</b>							
Coke .. ..	796,921	769,736	784,493	767,184	672,621	593,371	472,655
Breeze and screenings	117,835	109,993	92,776	88,474	86,446	69,039	69,479
Brazil .. ..	(a)	(a)	(a)	(a)	(a)	(a)	(e) 261,556
Chile .. ..	94,579	98,922	103,136	98,631	(a)	107,022	123,506
Colombia (f) .. ..	2,000	2,000	2,000	2,000	2,000	2,000	2,000
<b>Uruguay (gas-works)—</b>							
Coke .. ..	19,082	19,175	20,105	22,791	22,887	24,808	26,271
Breeze .. ..	2,390	3,563	4,233	3,049	2,622	3,640	3,483
French Indo-China ..	4,300	5,200	2,700	—	—	—	—
<b>Japan—</b>							
Coke-ovens .. ..	4,901,000	4,858,000	3,661,000	1,642,000	354,000	461,000	984,000
Beehive, etc. .. ..	1,323,000	1,335,000	1,205,000	720,000	555,000	685,000	915,000
Gas-works .. ..	2,079,000	2,055,000	1,937,000	945,000	449,000	673,000	1,064,000
Manchuria (coke-ovens) ..	1,963,000	2,148,000	1,636,000	(a)	(a)	(a)	(a)
<b>Turkey—</b>							
Gas-works .. ..	44,684	43,239	47,121	43,924	47,559	52,622	55,137
Coke-ovens .. ..	175,300	180,084	205,328	223,700	258,012	261,244	266,210
Semi-coke .. ..	55,198	46,924	48,644	54,995	42,410	59,515	65,300
Coke dust .. ..	(a)	(a)	(a)	5,291	2,088	2,707	888

(a) Information not available.

(b) January to July only.

(c) October to December only.

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

(e) Volta Redonda only.

(f) Estimated.



## PRODUCTION OF BRIQUETTES

(Long tons)

Producing Country	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
Great Britain .. ..	(a)	737,500	870,000	986,500	1,542,900	1,832,700	1,466,100
Canada .. .. .	(f) 176,701	(f) 198,309	(f) 226,421	271,585	294,378	286,117	318,031
Australia (b)—							
Brown-coal briquettes ..	413,450	414,959	416,715	431,344	493,144	490,338	545,236
New Zealand .. .. .	12,846	12,190	12,461	9,784	12,975	11,409	12,906
Irish Republic .. ..	28,293	106,001	121,794	117,598	84,426	53,205	(a)
FOREIGN COUNTRIES							
Belgium .. .. .	1,109,624	997,405	438,051	763,675	1,057,097	1,331,326	973,173
Czechoslovakia—							
Coal .. .. .	461,415	544,694	456,730	70,183	205,876	255,037	(a)
Brown-coal briquettes ..	257,008	318,532	323,802	189,445	248,465	279,164	(a)
France .. .. .	3,370,464	3,019,801	1,573,362	3,416,445	5,080,916	5,136,406	5,853,300
Germany—							
Coal briquettes (c) ..	7,131,000	7,073,000	6,318,000	1,302,000	d 1,872,000	d 2,142,000	d 2,925,000
Brown-coal briquettes (c)	54,421,000	58,764,000	60,578,000	4,496,000	d 10,604,000	d 11,653,000	d 12,694,000
Italy—							
Anthracite briquettes ..	15,278	11,590	3,466	15,372	(a)	(a)	(a)
Brown-coal briquettes ..	101,942	60,519	13,779	9,885	(a)	(a)	(a)
Netherlands—							
Coal briquettes .. ..	952,763	879,577	598,708	406,055	714,395	895,674	921,084
Brown-coal briquettes ..	56,175	54,580	42,280	26,826	42,966	41,015	61,993
Poland—							
Coal briquettes .. ..	(a)	(a)	(a)	(a)	520,726	622,272	704,520
Brown-coal briquettes ..	(a)	(a)	(a)	(a)	—	41,038	111,839
Portugal .. .. .	59,145	45,865	47,929	71,037	76,055	95,879	72,655
Spain .. .. .	776,158	643,665	910,255	1,032,944	820,282	777,065	989,408
Sweden .. .. .	(a)	(a)	6,000	29,251	25,161	85,527	(a)
Switzerland (estimated) ..	(a)	(a)	(a)	(a)	100,000	100,000	100,000
Algeria .. .. .	44,845	49,885	(a)	100,148	95,978	81,581	(a)
Morocco (French) .. ..	(a)	10,700	24,800	37,921	21,851	45,485	(a)
Tunis .. .. .	(a)	(a)	(a)	16,358	31,836	36,183	45,024
United States (e) .. ..	1,560,982	1,932,141	2,200,858	2,466,254	2,682,167	2,831,782	2,793,283
French Indo-China .. ..	53,700	29,300	17,300	—	—	—	—
Netherlands East Indies ..	(a)	(a)	(a)	(a)	(a)	2,000	(a)
Turkey .. .. .	21,603	29,778	33,735	23,338	12,364	14,891	7,205

(a) Information not available.

(b) Years ended June 30 of that stated.

(c) Years ended March 31 of that stated for the years 1942 to 1944 (U.S. Bureau of Mines).

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

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

1942, 225,936; 1943, 192,504; 1944, 156,937; 1945, 185,842; 1946, 170,463; 1947, 163,287; 1948, 140,190.

(f) Alberta only.

PRODUCTION OF COAL BY-PRODUCTS

(Long tons)

Producing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
<b>Great Britain—</b>							
Tar (quantity distilled) ..	2,172,000	2,124,000	2,083,000	2,121,000	2,196,000	2,274,000	2,447,000
Road tar (incl. refined) ..	640,000	650,000	606,000	628,000	735,000	732,000	742,000
Pitch .. .. .	467,000	380,000	404,000	412,000	474,000	529,000	624,000
Motor benzol, etc. ..	337,900	315,300	297,000	302,600	363,100	269,400	356,200
Other refined light oils ..	102,300	122,800	158,400	140,800	89,700	86,500	99,100
Creosote-pitch mixture ..	530,000	624,000	591,000	559,000	381,000	305,000	310,000
Creosote oil .. .. .	305,000	233,000	262,000	286,000	357,000	452,000	479,100
White naphthalene ..	7,600	9,000	7,400	7,400	7,500	10,700	11,800
Hot-pressed do. ..	8,400	9,200	9,300	10,000	8,400	8,900	14,000
Crude do. .. .. .	15,200	14,500	14,100	14,900	19,400	12,600	13,700
Pyridine bases .. .. .	700	600	600	600	650	650	700
Natural phenol .. .. .	8,200	8,700	9,200	8,200	9,600	9,100	10,000
Refined cresylic acid ..	29,000	34,000	33,000	32,500	40,000	40,000	45,100
Anthracene 40-50% ..	1,920	2,420	2,480	1,940	2,240	2,280	2,700
Ammonium sulphate (b)	620,400	826,500	779,500	760,400	833,700	796,700	901,000
<b>Union of South Africa—</b>							
Tar*—coke-ovens (c) ..	1,549	1,732	(a)	(a)	(a)	(a)	(a)
do.—gas-works (d) ..	21,551	27,398	27,040	(a)	(a)	(a)	(a)
<b>Canada—</b>							
Tar* (crude) .. .. .	175,830	182,228	194,400	194,847	169,456	167,053	193,544
Tar (refined) .. .. .	27,354	17,738	49,102	53,732	26,845	18,243	12,532
Pitch .. .. .	81,890	95,920	72,854	60,843	75,909	67,367	78,227
Creosote oils .. .. .	71,258	49,152	51,129	48,782	48,738	45,823	52,592
Ammonium sulphate ..	32,321	29,382	36,630	35,077	27,210	29,465	37,168
Benzol .. .. .	23,996	23,294	28,988	29,650	23,104	23,121	24,038
Ammonia liquor (NH <sub>3</sub> content) .. .. .	765	759	701	760	696	662	622
Toluol, naphthalene, etc.	7,859	6,829	7,882	6,569	2,635	4,060	567
<b>India (coke-ovens)—</b>							
Ammonium sulphate ..	24,956	19,460	20,118	19,591	19,108	(a)	16,212
<b>Australia (gas-works) (d)—</b>							
Tar (crude)* .. .. .	140,377	141,519	169,004	161,553	165,032	185,817	193,853
Tar (refined)* .. .. .	35,198	38,976	52,986	34,289	37,864	40,145	43,985
Tar oils (crude) .. .. .	9,269	10,428	14,105	14,204	15,126	18,422	19,150
Ammonia liquor .. .. .	40,200	78,508	167,702	92,945	74,150	68,417	75,756
Ammonium sulphate ..	3,435	(a)	(a)	1,880	2,274	1,186	(a)
<b>New Zealand (e)—</b>							
Tar (gas-works)* ..	13,201	16,638	13,356	10,924	11,958	13,051	(a)
<b>Irish Republic—</b>							
Tar .. .. .	(a)	5,665	6,118	6,868	6,781	6,237	10,276
Ammonium sulphate ..	(a)	(a)	(a)	911	1,019	261	338
<b>FOREIGN COUNTRIES</b>							
<b>Austria—</b>							
Tar .. .. .	31,066	28,148	24,928	} (a)	(a)	(a)	(f) 21,235
Benzol .. .. .	7,849	8,314	6,025				
Liquid ammonia .. .. .	2,103	1,995	1,791				
Ammonium sulphate ..	6,720	6,221	5,234				

\* See page 69 for conversion rates.

(a) Information not available.

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

(c) Excluding iron and steel works.

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

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

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

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

Producing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
Belgium—							
Tar (crude) .. ..					129,530	159,183	185,778
Benzol, crude .. ..					37,389	(a)	(a)
do. motor .. ..					16,441	15,091	24,895
do. industrial .. ..	(a)	(a)	(a)	(a)	7,913	7,786	10,563
Benzine .. ..					3,117	7,389	5,678
Toluol and xylol .. ..					2,595	2,886	3,128
Solvent naphtha .. ..					815	826	672
Denmark—							
Tar (gas-works) .. ..	26,853	26,360	25,008	28,626	22,620	30,538	36,748
Finland—							
Gas-works—							
Tar .. ..	2,721	3,068	2,194	1,941	1,996	2,586	2,744
Benzol .. ..	207	219	183	139	201	186	176
Ammonia .. ..	218	238	222	191	232	210	198
France—							
Tar (crude) .. ..	325,290	303,352	182,422	207,943	354,300	386,510	428,546
Ammonium sulphate .. ..	61,626	56,149	21,229	21,591	58,955	67,303	64,466
Benzol (crude) .. ..	47,995	51,957	27,538	21,893	55,770	55,445	59,847
Pitch .. ..	138,813	156,351	83,620	99,279	122,814	127,234	(a)
Phenol (crude) .. ..	4,444	6,368	3,844	2,678	3,879	3,931	(a)
Naphthalene .. ..	12,962	12,106	8,050	11,836	22,063	21,985	(a)
Germany (b)—							
Tar (crude) .. ..					446,900	638,200	806,600
Pitch .. ..					201,000	285,100	409,600
Tar oils .. ..					107,300	157,600	220,000
Naphthalene .. ..	(a)	(a)	(a)	(a)	(c)21,212	(c) 31,972	(a)
Benzol (crude) .. ..					96,200	144,600	207,900
Refined benzols .. ..					82,400	125,200	189,600
Phenol, cresol, etc. .. ..					3,200	4,600	7,500
Italy—							
Tar .. ..	40,843	48,172	46,568			67,278	94,160
Ammonium sulphate .. ..	17,193	38,512	13,630			(a)	(a)
Benzol (crude) .. ..						9,976	13,471
Naphthalene .. ..						6,545	11,343
Distillates .. ..	(a)	(a)	(a)	(a)	(a)	27,951	42,885
Benzol (refined) .. ..						5,699	9,883
Toluol and xylol .. ..						698	1,900
Pitch .. ..						19,871	29,956
Solvents .. ..						3,405	4,682
Netherlands—							
Tar (crude) .. ..	(a)	(a)	(a)	(a)	(a)	108,950	135,968
Norway—							
Tar (gas-works) .. ..	3,136	3,150	2,994	1,640	3,160	3,758	(a)
Poland—							
Tar (crude) .. ..					79,030	95,990	118,171
Pitch .. ..	(a)	(a)	(a)	(a)	13,292	14,758	19,199
Ammonium sulphate .. ..					20,417	29,391	29,707
Benzol (crude) .. ..					24,876	24,515	38,712
Portugal (gas-works)—							
Tar (crude) .. ..	3,298	2,965	2,421	3,656	3,680	2,704	2,058
Spain—							
Coke-ovens—							
Tar .. ..	42,839	32,517	50,146	35,700	35,900	35,941	34,893
Pitch .. ..	21,120	7,713	9,365	7,538	8,005	10,136	10,930
Benzol .. ..	8,697	7,813	9,160	(a)	(a)	6,624	7,613
Naphthalene .. ..	(a)	(a)	(a)	(a)	(a)	1,574	1,702
Ammonium sulphate .. ..	16,134	18,770	17,266	(a)	(a)	14,608	9,255
Creosote .. ..	7,885	6,308	7,284	3,365	6,056	2,955	3,778

(a) Information not available.

(b) Bizonal area.

(c) British Zone only.

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

Producing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
<b>Spain (cont.)—</b>							
<b>Gas-works—</b>							
Tar (crude) .. ..	8,639	10,329	9,945	(g)	(g)	(g)	(g)
do. (refined) .. ..	1,711	1,830	1,725	(g)	(g)	(g)	(g)
Ammonium sulphate..	647	627	558	(g)	(g)	(g)	(g)
<b>Sweden—</b>							
Tar (crude) .. ..	24,190	23,776	23,158	18,539	20,864	30,980	33,724
Other tar .. ..	11,665	14,101	14,612	16,082	24,159	24,378	(a)
Pitch .. ..	526	630	1,102	1,495	1,442	1,825	(a)
Ammonium sulphate ..	4,732	4,583	3,742	3,222	3,244	4,241	(a)
Benzol, toluol, etc. ..	3,853	4,138	4,031	3,369	3,084	3,995	(a)
Distillates, etc. .. ..	2,062	2,837	4,240	3,628	1,707	1,226	(a)
<b>Switzerland—</b>							
Tar (crude) (gas-works)	21,184	18,499	16,660	7,286	10,346	19,534	(a)
Benzol .. ..	(a)	(a)	(a)	(a)	1,858	2,450	(a)
<b>Algeria—</b>							
Tar (gas-works) ..	(a)	(a)	(a)	5,364	5,187	4,818	6,214
<b>Tunis—</b>							
Tar (gas-works) ..	1,091	53	874	871	1,080	1,488	1,281
<b>United States—</b>							
<b>Coke-ovens—</b>							
Tar* .. ..	3,163,144	3,154,560	3,281,227	2,975,672	2,550,721	3,146,045	3,157,073
Pitch .. ..	569,784	595,763	597,521	523,786	455,795	587,005	657,960
Sulphate equivalent of ammonia produced(e)	805,815	801,512	843,663	780,999	664,033	814,564	830,083
Benzol* .. ..	284,190	441,464	489,700	422,235	365,763	402,939	499,996
Motor fuel* .. ..	174,187	57,172	49,883	77,387	73,653	42,480	24,232
Naphthalene (crude) ..	42,684	43,793	46,000	39,142	31,967	43,919	47,240
Toluol and xylol* .. ..	105,603	134,114	137,899	112,985	73,549	109,565	116,776
Solvent naphtha* .. ..	16,717	16,772	17,833	15,393	14,106	20,986	18,406
Creosote* .. ..	167,539	172,828	173,723	146,155	123,503	160,707	138,828
Phenol* .. ..	4,047	6,254	5,860	(a)	(a)	(a)	3,760
Light carbolic oil ..	7,377		(a)	(a)	(a)		
Other light products ..	30,794	29,852	30,698	26,115	25,241	27,897	26,872
<b>All sources (b)—</b>							
Coal tar .. ..	3,163,144	3,154,560	3,365,496	3,074,120	2,633,611	3,219,397	3,218,205
Water gas and oil gas tar	726,496	726,496	769,231	769,231	942,030	1,076,068	1,149,701
Crude light oil (f) ..	839,343	881,070	949,497	867,457	887,967	931,207	890,680
Benzol, motor .. ..	184,575	65,565	49,884	87,234	85,556	52,965	28,263
do. other (f) .. ..	284,190	473,490	594,640	520,717	454,510	558,840	579,533
Toluol .. ..	(f) 141,477	(f) 314,843	(f) 438,490	(f) 432,709	79,033	109,026	110,778
Xylol .. ..	30,497	34,212	28,330	31,163	26,539	27,000	26,118
Solvent naphtha .. ..	16,718	16,772	22,881	25,038	28,449	40,644	48,077
Other light oil derivatives .. ..	68,550	49,400	120,567	49,293	41,320	55,220	60,427
Naphthalene (crude) ..	112,021	136,281	134,437	128,409	108,157	140,500	146,230
Creosote oil .. ..	695,623	695,183	639,492	614,484	541,274	632,857	575,123
Coal tar (c) .. ..	31,944	39,628	45,949	33,308	40,145	48,893	42,838
Tar, refined (d) .. ..	129,808	122,816	211,799	133,291	74,581	83,808	91,739
Tar, road .. ..	650,585	644,650	687,932	718,496	664,637	682,085	554,081
Distillate products, others .. ..	259,341	65,206	44,548	29,024	50,833	87,155	93,476
Pitch of tar .. ..	1,163,393	1,158,036	1,161,607	1,494,643	1,783,000	1,294,000	1,528,000
Pitch of tar coke .. ..	105,357	115,179	92,857	77,679	83,000	90,000	58,000

(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): 1942—684,647; 1943—679,705; 1944—730,575; 1945—682,404; 1946—574,779; 1947—722,714; 1948—769,135.

(f) Including some material produced from petroleum.

(g) Included with "coke-ovens."

PRODUCTION OF COAL BY-PRODUCTS (Cont.)

Producing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
Brazil (b)—							
Tar (crude) .. ..	(a)	(a)	(a)	(a)	(a)	(a)	13,898
Road tar .. ..							9,111
Benzol, motor .. ..							2,405
do. other .. ..							334
Toluol and xylo .. ..							469
Solvent naphtha .. ..							44
Naphthalene .. ..							566
Creosote oil .. ..							78
Ammonium sulphate .. ..							4,209
Pitch .. ..							98
Carbolic acid .. ..	301						
Chile—							
Tar .. ..	14,482	13,633	14,740	14,543	(a)	14,407	16,153
Uruguay (gas-works)—							
Tar .. ..	1,688	1,564	1,704	1,739	1,605	1,741	1,806
Benzol .. ..	149	283	390	591	334	338	54
Tar oil .. ..	198	432	385	216	254	291	46
Pitch .. ..	156	446	320	180	234	206	169
Turkey—							
Coke-ovens—							
Tar (crude) .. ..	(a)	(a)	(a)	(a)	12,968	—	(a)
Benzol (crude) .. ..				(a)	3,389	—	(a)
Road tar .. ..				503	377	324	(a)
Heavy oils .. ..				(a)	3,792	5,257	(a)
Naphthalene (crude) .. ..				445	204	—	(a)
Anthracene (crude) .. ..				(a)	318	241	(a)
Pitch .. ..				6,244	7,691	7,245	7,636
Naphthalene (refined) .. ..				300	340	441	(a)
Motor benzol .. ..				2,293	2,670	2,775	(a)
Other benzol .. ..				(a)	1,579	—	(a)
Solvent naphtha .. ..	94	44	93	(a)			
Gas-works—							
Tar .. ..	2,435	2,052	1,980	2,283	2,636	2,901	3,081

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

(a) Information not available.

(b) Volta Redonda only.

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

(Domestic Produce)

(Long tons)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Anthracite—							
small and sized .. .. .	522,808	540,661	246,483	486,552	913,222	67,612	2,195,567
unscreened .. .. .	—	—	—	—	183	469	4,478
large .. .. .	118,312	78,044	33,224	7,957	49,515	35,035	133,001
Bituminous—							
small and sized .. .. .	948,891	1,089,894	896,744	1,639,780	1,959,875	490,037	1,152,603
unscreened .. .. .	619,207	761,230	437,770	723,406	702,969	242,938	999,944
large .. .. .	1,365,053	1,155,378	991,969	467,009	828,733	220,842	806,928
bunkers .. .. .	3,541,686	3,243,831	2,417,968	3,104,824	4,719,234	4,393,672	5,430,574
Coke, gas .. .. .	57,505	74,222	17,478	25,851	79,286	4,067	634,752
do. other .. .. .	223,539	218,999	95,751	157,567	397,665	68,313	227,004
Manufactured fuel .. .. .	70,168	115,771	23,006	21,399	20,070	—	199,795
Tar .. .. .	12,319	10,055	4,627	42,847	109,451	186,007	160,485
Pitch .. .. .	64,780	71,934	74,364	154,208	179,008	216,469	232,196
Creosote oil .. .. .	17,130	2,223	1,633	2,550	23,947	163,802	174,601
Other heavy coal-tar oils .. .. .	121	88	236	970	4,457	5,435	3,282
Naphthalene .. .. .	1,469	5,470	2,712	2,502	2,754	1,054	3,045
Carbolic acid—							
Crude .. .. .	11	7	8	16	11	30	14
Crystals .. .. .	42	22	256	1,534	394	23	36
Cresylic acid .. .. .	8,330	12,738	8,570	10,576	13,880	11,119	11,988
Benzol .. .. .	9,592	126,428	179,438	122,404	4,832	2,310	216
Malta—							
Coal (bunkers on merchant ships (b) .. .. .	(a)	(a)	(a)	(a)	3,672	4,112	8,717
Kenya and Uganda—							
Coal (bunkers) (b) .. .. .	59,722	61,838	77,297	48,260	29,899	39,099	24,141
Nigeria—							
Coal .. .. .	73,098	80,117	187,627	184,797	177,528	135,699	83,120
do. (bunkers) .. .. .	(a)	(a)	(a)	7,827	10,854	20,937	14,186
do. do. (b) .. .. .	(a)	(a)	(a)	6,058	2,809	—	—
Sierra Leone—							
Coal (bunkers) (b) .. .. .	312,061	274,341	244,246	156,383	92,392	77,469	45,433
Southern Rhodesia—							
Coal .. .. .	709,748	867,379	904,825	784,146	649,922	604,463	704,595
Coke .. .. .	86,025	84,162	92,980	78,835	68,598	55,200	62,397
Union of South Africa—							
Coal .. .. .	1,270,524	2,016,608	3,664,152	3,760,343	3,145,933	(a)	(a)
do. (bunkers) .. .. .	(a)	(a)	753,962	760,481	712,553	(a)	(a)
Coke .. .. .	30,201	29,993	27,988	63,482	49,879	(a)	(a)
Tar and pitch .. .. .	1,777	1,990	4,994	2,231	5,515	(a)	(a)
Canada—							
Coal .. .. .	719,390	983,495	892,328	735,455	762,430	630,721	1,127,631
Lignite .. .. .	8,811	7,667	9,672	15,177	7,649	7,269	9,210
Coke .. .. .	39,879	43,086	38,025	34,522	43,921	95,136	149,374
Tar and pitch .. .. .	2,368	1,164	1,481	16,052	11,331	6,117	344
Creosote oil .. .. .	7,061	6,174	12,360	8,298	412	151	3
Other coal tar oils .. .. .	8,651	7,845	9,289	10,773	13,565	10,087	18,804

\* 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	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES (Cont.)</b>							
<b>British West Indies—</b>							
Bermuda—							
Coal (bunkers) (c) ..	(a)	(a)	(a)	(a)	(a)	(a)	3,425
<b>British Guiana—</b>							
Coal (bunkers) (c) ..	966	117	41	167	97	11	—
<b>Jamaica—</b>							
Coal (bunkers) (b) ..	19,838	13,044	5,182	11,271	26,284	72,929	34,966
<b>Trinidad and Tobago—</b>							
Coal (bunkers) (c) ..	86,482	130,341	69,244	79,969	59,819	81,172	55,742
<b>Aden (including re-exports)—</b>							
Coal (bunkers) (c) ..	278,101	212,389	184,341	191,580	285,542	275,681	191,086
<b>India—</b>							
Coal .. .. .	414,262	263,006	103,493	53,860	463,522	547,631	934,521
do. (bunkers—domestic produce) .. ..	796,637	449,460	367,361	382,595	551,499	495,274	382,122
do. (bunkers—foreign produce) .. ..	550	60	—	—	125	—	—
Coke .. .. .	4,006	680	150	179	983	2,895	13,767
Coal and coke (government stores) .. ..	20,212	2,200	13,703	—	—	—	—
<b>Malaya (including re-exports)—</b>							
Coal .. .. .	(a)	(a)	(a)	(a)	2,002	1,581	323
do. (bunkers) (c) ..	(a)	(a)	(a)	(a)	(a)	120,236	71,974
Coke .. .. .	(a)	(a)	(a)	(a)	2,227	214	351
Tar and pitch .. ..	(a)	(a)	(a)	(a)	234	241	272
<b>Ceylon—</b>							
Coal (bunkers) (c) ..	164,175	102,973	147,469	134,701	137,994	104,441	112,400
<b>Cyprus—</b>							
Coal (bunkers) (c) ..	(a)	(a)	45	(a)	96	163	638
<b>Hong Kong (re-exports)—</b>							
Anthracite .. .. .	}	(a)	(a)	(a)	}	4,999	85
Bituminous .. .. .						1,442	3,080
Briquettes .. .. .						—	—
Coke .. .. .						211	223
<b>Australia—</b>							
Coal .. .. .	276,107	192,745	150,555	121,735	88,598	48,364	49,904
do. (bunkers) .. ..	344,152	231,276	209,501	218,386	207,899	335,455	274,248
Coke .. .. .	23,220	30,217	22,697	16,376	40,401	7,739	5,348
Tar and pitch .. ..	1,840	390	291	784	2,061	3,128	6,308
<b>New Zealand—</b>							
Coal .. .. .	6	33	516	19	2,558	4,068	2,420
do. (bunkers) .. ..	54,694	42,504	37,171	21,970	24,809	23,967	16,493
Coke .. .. .	25	6	16	5	7	11	19
Tar .. .. .	7	12	7	10	49	9	17
Pitch .. .. .	—	—	2	1	—	—	—
<b>Irish Republic—</b>							
Coke .. .. .	—	—	—	—	—	—	1,454
<b>FOREIGN COUNTRIES</b>							
<b>Austria—</b>							
Coke .. .. .	(a)	(a)	(a)	(a)	(a)	20,061	18,663

(a) Information not available.

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

(c) Foreign coal (see imports).

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

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948							
<b>FOREIGN COUNTRIES (Cont.)</b>														
<b>Belgium-Luxemburg E.U.—</b>														
Coal .. .. .	2,304,452	1,806,470	237,074	36,591	304,827	827,683	606,776							
do. (bunkers) (b) ..														
Coke .. .. .	1,689,148	1,255,915	336,236	155,089	471,480	684,884	692,408							
Briquettes .. .. .	102,003	155,501	14,835	651	15,803	72,103	45,440							
Brown coal briquettes ..	87	63	—	(a)	(a)	(a)	261							
Tar .. .. .	959	1,114	6	(a)	(a)	(a)	1,573							
Naphthalene .. .. .	3,075	3,016	1,713	(a)	(a)	(a)	8,659							
Distillates .. .. .	20,154	43,749	15,966	(a)	(a)	(a)	(a)							
<b>Bulgaria—</b>														
Coal .. .. .	67,507	166,400	55,544	6,746	4,611	(a)	(a)							
<b>Czechoslovakia—</b>														
Coal .. .. .	(a)	(a)	(a)	(a)	24,590	34,035	(c) 438,250							
Brown coal .. .. .					308,589	941,987	(c) 942,665							
Coke .. .. .					270,503	567,846	(c) 840,114							
Briquettes .. .. .					20	3,076	(c) 20							
Tar and pitch .. .. .					67,160	31,813	(c) 19,412							
Benzol, etc. .. .. .					3,600	1,172	(c) 2,830							
Crude naphthalene ..					1,023	1,779	(c) 5,794							
Crude carbolic acid ..					248	1,606	(c) 3,261							
Cresol .. .. .					29	208	(c) 418							
Creolin, etc. .. .. .					818	1,612	(c) 1,498							
<b>Denmark—</b>														
Tar and pitch .. .. .	235	—	2,435	1,284	79	87	24							
<b>France—</b>														
Anthracite .. .. .	844,218	90,765	67,094	40,750	299,264	33,588	14,570							
Bituminous .. .. .														
Brown coal .. .. .	12,275	1,237	(a)	—	462	12,984	1,061							
Coke .. .. .	16,386	9,116	14,122	986	45,129	47,315	419,514							
Briquettes .. .. .	16,172	10,980	654	226	78,045	106,641	12,698							
Brown coal briquettes ..	(a)	90	—	—	1,083	—	2,058							
<b>Coal, coke and briquettes—</b>														
Bunkers (domestic produce) .. .. .	426,662	52,511	16,283	36,834	(a)	(a)	(a)							
do. (foreign produce) .. .. .	56,955	8,175	466	20,149	(a)	(a)	(a)							
Tar and pitch .. .. .	1,171	7	425	380	1,317	4,715	24,657							
Benzol, etc. .. .. .	1,629	2,763	1,318	—	84	148	2,695							
Naphthalene .. .. .	162	344	207	4	926	1,296	1,025							
Carbolic acid, etc. ..	725	—	—	42	77	99	70							
Anthracene .. .. .	(a)	680	—	62	97	61	1							
Coal tar oils .. .. .	37	—	—	—	110	454	(a)							
<b>Germany—</b>														
Coal .. .. .	29,395,671	32,826,070	16,467,840	(a)	e 12,884,000	f 19,999,000	(a)							
do. (bunkers for foreign ships) .. .. .														
Brown coal .. .. .								728,781	795,017	550,093	(a)	(a)	—	(a)
Coke .. .. .								4,245,351	4,305,564	3,070,641	(a)	(a)	(a)	(a)
Coal briquettes .. .. .								529,083	386,594	102,790				
Brown-coal briquettes ..								833,985	1,967,485	1,042,859				
Tar and pitch .. .. .								105,685	78,464	34,229				
Naphthalene .. .. .								5,972	4,400	1,785				
Carbolic acid .. .. .								559	720	341				
Cresol .. .. .								1,199	1,147	503				
Light coal-tar oils, etc. ..	40,621	20,743	5,317											
Heavy coal-tar oils, etc.	37,681	9,722	3,732											

(a) Information not available.

(b) Bunkers for foreign ships only.

(c) January to October only.

(d) January to July only.

(e) British and French Zones only.

(f) British, French and Russian Zones.



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

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont)</b>							
<b>Hungary—</b>							
Coal .. .. .	(a)	(a)	(a)	(a)	80,705	130,093	(a)
Lignite .. .. .							
Coke .. .. .							
Briquettes .. .. .							
<b>Italy—</b>							
Coal .. .. .	(a)	(a)	(a)	(a)	(a)	4,508	6,619
Tar and tar oils .. .. .							
Naphthalene .. .. .							
<b>Netherlands—</b>							
Coal .. .. .	798,854	574,996	(a)	(a)	351	46,685	35,173
do. (bunkers) (b) .. .. .	203,015	171,401					
Brown coal .. .. .	(a)	(a)					
Coke .. .. .	684,044	1,073,971					
Briquettes .. .. .	150,269	119					
Brown coal briquettes .. .. .	(a)	(a)					
Tar .. .. .	4	7					
Creosote .. .. .	25,156	18,795					
Naphthalene .. .. .	2,213	2,112					
Anthracene .. .. .	3,802	2,445					
Carbolic acid .. .. .	3	—					
Benzol .. .. .	12,750	12,623					
Toluol and xylol .. .. .	1,282	948					
Solvent naphtha.. .. .	—	—					
Asphalt .. .. .	—	5					
<b>Norway—</b>							
Coal .. .. .	—	—	—	—	—	33	4,951
Tar .. .. .	—	—	—	—	4	4	—
Pitch .. .. .	9	—	—	5	43	32	5
<b>Poland—</b>							
Bituminous .. .. .	(a)	(a)	(a)	5,403,194	13,270,447	17,609,908	24,361,553
Brown coal .. .. .							
Coal (bunkers) (c) .. .. .							
Coke .. .. .							
Briquettes .. .. .							
Naphthalene .. .. .							
Benzol .. .. .							
Creosote, etc. .. .. .							
<b>Portugal—</b>							
Coal .. .. .	88	510	610	192	4	137	116
do. (bunkers) (c) .. .. .	23,153	14,863	27,359	21,329	28,252	18,280	21,541
Tar and pitch .. .. .	64	146	203	185	102	80	97
<b>Spain—</b>							
Anthracite .. .. .	5,236	9,548	3,796	9,519	30,646	17,242	7,878
Bituminous .. .. .	200,115	278,400	302,395	337,251	357,741	222,912	84,048
Other coal .. .. .	2	4	1	3	13	214	443
Coke .. .. .	43	426	148	243	568	555	733
Briquettes .. .. .	—	—	—	4,190	2,737	59	—
Carbolic acid, naphthalene, etc. .. .. .	22	66	43	32	95	149	97
Tar and pitch .. .. .	8	10	3	19	20	5	6
<b>Spitzbergen—</b>							
Coal (including bunkers) .. .. .	—	—	—	289	61,741	276,751	(a)
<b>Sweden—</b>							
Coal .. .. .	—	—	33,348	14,335	—	793	—
Coke .. .. .	—	—	15,050	9,979	—	1,000	—
Tar, pitch, etc. .. .. .	7,491	8,265	1,982	428	3,570	8,205	10,893
Benzol .. .. .	—	—	—	1,213	1,780	2,150	1,550
Carbolic acid, etc. .. .. .	—	—	—	52	24	3	5
Toluol and xylol .. .. .	—	—	—	56	844	547	113

(a) Information not available.

(b) Including imported coal.

(c) Bunkers for foreign ships.

(d) Including pitch.

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

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Switzerland—							
Coal .. .. .	—	—	—	—	99	197	34
Coke .. .. .	—	—	—	—	—	9	—
Briquettes .. .. .	—	—	—	—	—	1,544	309
Tar and pitch .. .. .	—	2	—	—	2,524	3,024	5,098
Creosote, etc. .. .. .	—	—	—	1	113	604	991
Naphthalene, etc. .. .. .	78	164	75	47	675	840	1,129
Algeria—							
Coal .. .. .	19,303	8,068	—	(a)	(a)	33,631	30,087
do. (bunkers) .. .. .	8	—	8,586	4,668	85,790	90,900	48,478
do. do. (b) .. .. .	31,289	6,479	26,503	24,269	112,769	124,532	(a)
Coke .. .. .	12	150	616	5	—	3	—
Briquettes .. .. .	79	—	—	9	21	107	261
do. (bunkers) (b) .. .. .	2,245	722	25	—	—	—	(a)
Tar .. .. .	1	—	—	10	144	12	524
Angola (b)—							
Coal .. .. .	8,625	227	325	17	—	57	(a)
Tar .. .. .	308	332	179	857	252	(a)	(a)
Canary Islands—							
Coal .. .. .	121	—	12	3	3	7	(a)
do. (bunkers) (b) .. .. .	115	—	—	21,265	55,505	63,434	(a)
Cape Verde Islands (b)—							
Coal (bunkers) .. .. .	5,808	2,906	1,210	(a)	(a)	(a)	(a)
Ceuta—							
Coal .. .. .	2,575	2,579	3,507	4,494	6,082	5,286	(a)
do. (bunkers) (b) .. .. .	88,262	122,893	135,601	151,148	126,851	158,525	(a)
Egypt—							
Coke .. .. .	79	—	2	3	2	1	1
Briquettes .. .. .	—	—	—	—	—	—	—
Tar .. .. .	19	—	7	—	—	—	—
Madagascar (foreign coal)—							
Coal (bunkers) .. .. .	(a)	4,517	6,320	7,509	15,729	11,964	3,289
Morocco (French)—							
Anthracite .. .. .	22,475	2,342	2,810	15,401	100,200	99,688	(a)
Other coal .. .. .	1,785	—	—	374	50,377	2,804	(a)
Briquettes .. .. .	1,116	4,463	11,311	15,401	12,470	18,225	(a)
Mozambique—							
Coal .. .. .	3,792	4,708	7,119	9,108	8,341	9,509	8,184
Mexico—							
Anthracite .. .. .	1	2,541	6	34	—	(a)	(a)
Other coal .. .. .	4,751	8,140	3,139	320	3,864	(a)	(a)
Coke .. .. .	6,360	276	1,244	37	—	(a)	(a)
Naphthalene .. .. .	112	3	—	—	11	(a)	(a)
Benzol, toluol, etc. .. .. .	647	76	—	3	—	(a)	(a)
Creosote .. .. .	813	597	356	—	—	(a)	(a)
United States—							
Anthracite .. .. .	3,963,025	3,695,250	3,737,440	3,295,756	5,809,669	8,715,204	5,960,638
Bituminous .. .. .	20,485,094	23,068,043	23,243,168	24,960,886	36,784,816	68,755,586	41,004,754
do. (bunkers) .. .. .	1,414,967	1,470,144	1,392,263	1,593,711	(a)	(a)	(a)
Coke .. .. .	749,627	888,042	773,960	1,320,309	1,099,399	837,237	630,527
Briquettes .. .. .	92,787	156,070	146,136	151,215	145,838	248,760	185,612
Tar and pitch .. .. .	45,807	32,087	27,488	70,207	328,425	292,444	159,124
Benzol .. .. .	624	147	1,891	9,816	20,063	5,156	5,760
Creosote .. .. .	893	1,067	1,838	3,361	1,311	4,134	3,189
Toluol and xylo .. .. .	33,837	37,092	51,710	18,456	(c) 9,730	(c) 11,271	(c) 13,106
Carbolic acid .. .. .	8,531	13,768	12,824	7,523	11,021	9,178	13,419
Argentina—							
Coal .. .. .	23,391	36,740	34,727	36,958	70,147	(a)	(a)
Coke .. .. .	16	22	1	10	6	(a)	(a)
Tar and pitch .. .. .	27	4	—	13	1	(a)	(a)

(a) Information not available.

(b) Foreign coal (see imports).

(c) Toluol only.

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

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Brazil—							
Coal .. .. .	54,628	56,371	16,476	—	—	—	—
Chile—							
Coal (including bunkers)	85,083	58,364	45,585	53,871	38,745	15,000	33,000
Coke .. .. .	131	49	21	98	169	(a)	(a)
Colombia—							
Coal .. .. .	6,505	2,872	135	765	10	(a)	(a)
Peru—							
Coal .. .. .	} 324	{ 20,599	} 8,641	{ 22,945	55,398	47,277	(a)
do. (bunkers) ..							
Uruguay—							
Coal (b) .. .. .	64,647	(a)	(a)	(a)	(a)	(a)	(a)
China—							
Coal (including bunkers)	—	—	—	—	41,669	15,333	18,976
Coal dust .. ..	—	—	—	—	8,088	756	—
Coke .. .. .	(a)	(a)	(a)	(a)	5	1	—
French Indo-China—							
Coal .. .. .	} 331,899	176,794	701	93	239	23,822	67,884
do. (bunkers) ..							
Japan—							
Coal .. .. .	1,571,000	1,083,000	703,000	(a)	(d) 786,731	730,982	(d) 1,089,221
Tar and pitch .. ..	(a)	(a)	(a)	(a)	1,352	2,156	148
Korea—							
Coal .. .. .	1,173,174	660,402	404,509	(a)	(a)	(a)	(a)
Manchuria—							
Coal .. .. .	1,557,999	1,751,887	2,033,370	(a)	(a)	(a)	(a)
Portuguese India—							
Coal .. .. .	198	30	12	74	—	40	(a)
Syria and Lebanon—							
Coal .. .. .	73	—	—	478	3,036	(a)	(a)
Coke .. .. .	—	—	—	—	—	(a)	(a)
Tar .. .. .	15	19	10	—	219	(a)	(a)
Turkey—							
Coal .. .. .	717	69	—	18	174,063	110,813	1,109

- (a) Information not available.  
 (b) Foreign coal (see imports).  
 (c) January to October only.  
 (d) Including coke.

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

(Less Re-exports)

(Long tons)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom—							
Coal .. .. .	767	2,054	2,576	1,041	7,211	694,438	80,224
Coke .. .. .	—	6	—	10	3,200	2,212	—
Manufactured fuel .. .. .	—	—	—	—	—	55	10
Tar and pitch .. .. .	210	—	—	3,211	1,798	2,008	1,689
Creosote oil .. .. .	1	1	—	—	—	—	—
Other heavy coal-tar oils .. .. .	—	—	1	—	—	—	14
Naphthalene .. .. .	—	—	—	—	20	—	22
Carbolic acid .. .. .	1,235	2,338	—	—	2,744	1,930	5,670
Cresylic acid .. .. .	—	—	—	—	—	—	—
Benzol .. .. .	—	—	—	—	372	(d) 286	—
Malta—							
Coal (b) .. .. .	(a)	(a)	(a)	(a)	4,581	17,554	18,997
Anglo-Egyptian Sudan—							
Coal .. .. .	77,869	106,289	86,008	60,291	45,021	29,544	71,072
Coke .. .. .	1,671	495	412	895	380	—	1,892
Pitch .. .. .	31	—	4	12	145	—	2
Tar .. .. .	31	63	380	405	651	138	481
Tar oils .. .. .	—	3	75	3	13	10	1,035
Gambia—							
Coal, coke and patent fuel .. .. .	754	—	1,150	1,233	1,205	905	213
Tar and pitch .. .. .	39	87	160	6	6	12	6
Gold Coast—							
Coal .. .. .	70,568	71,515	100,079	91,243	107,243	87,809	98,710
Coke .. .. .	(a)	(a)	907	426	245	505	246
Patent fuel .. .. .	(a)	(a)	1	—	—	—	56
Tar and pitch .. .. .	3,006	8,164	808	3,607	1,878	2,035	3,566
Kenya and Uganda—							
Coal (c) .. .. .	188,674	222,392	244,135	229,480	192,637	219,416	159,960
Coke .. .. .	1,208	572	1,505	1,072	687	846	659
Creosote, etc. .. .. .	7	46	40	42	95	51	107
Tar, pitch and bitumen .. .. .	440	96	4,992	—	9,213	3,018	166
Mauritius—							
Coal .. .. .	42,965	46,156	65,881	32,448	50,577	51,425	64,286
Coke .. .. .	(a)	(a)	(a)	152	527	512	(a)
Tar and pitch .. .. .	(a)	(a)	(a)	82	(a)	36	(a)
Nigeria—							
Coal (c) .. .. .	21,102	13,707	9,668	5,383	1,770	124	1,179
Coke .. .. .	353	898	434	932	427	666	869
Patent fuel .. .. .	(£63)	2	—	(£28)	(£13)	2	—
Tar and pitch .. .. .	883	2,087	1,706	3,660	4,287	3,363	2,243
Northern Rhodesia—							
Coal and patent fuel .. .. .	517,272	586,207	578,692	555,350	391,786	487,805	565,608
Coke .. .. .	3,644	3,814	3,795	3,745	3,029	5,363	(a)
Tar and creosote oil .. .. .	54	105	70	87	18	15	(a)
Tar and pitch .. .. .	213	230	246	252	174	85	(a)
Nyasaland—							
Coal .. .. .	5,738	6,023	5,325	8,627	10,538	11,048	14,842
Tar and pitch .. .. .	(a)	(a)	(a)	(a)	(a)	123	81
Sierra Leone—							
Coal (b) .. .. .	330,978	289,257	251,974	162,344	125,036	93,975	69,455
Coke .. .. .	(a)	(a)	40	52	171	—	118
Tar and pitch .. .. .	677	96	693	102	130	73	328

\* 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	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES (Cont.)</b>							
Southern Rhodesia—							
Coal and coke .. ..	882	1,150	1,109	1,288	1,345	1,536	2,258
Tar and pitch .. ..	335	688	2,778	1,023	600	759	3,621
South West Africa—							
Coal .. .. .	6,135	5,010	3,623	7,215	11,902	(a)	(a)
Coke .. .. .	69	36	52	10	17	(a)	(a)
Tar and pitch .. ..	81	173	72	141	34	(a)	(a)
Tanganyika Territory—							
Coal .. .. .	14,090	11,989	25,375	28,314	20,930	35,424	53,555
Coke .. .. .	508	244	287	231	429	206	518
Creosote, etc. .. ..	31	21	12	45	78	41	124
Tar and pitch .. ..	56	39	26	36	95	317	1,277
Union of South Africa—							
Coal .. .. .	44,230	46,827	47,510	42,465	64,230	(a)	(a)
Coke .. .. .	87	78	473	357	172	(a)	(a)
Tar and pitch .. ..	282	216	321	343	396	(a)	(a)
Naphthalene .. .. .	4	17	9	—	5	(a)	(a)
Tar and creosote .. ..	57	41	490	361	1,028	(a)	(a)
Zanzibar—							
Coal .. .. .	6,863	13,720	10,413	14,352	7,690	9,641	(a)
Canada—							
Anthracite .. .. .	4,250,834	3,881,983	3,908,393	3,027,576	4,092,711	3,785,940	4,656,084
do. dust .. .. .	134,546	118,271	67,492	19,512	42,456	36,990	30,023
Bituminous .. .. .	17,515,622	20,727,211	21,173,846	18,870,601	18,847,450	21,592,192	22,495,936
do. (bunkers) .. ..	362,897	361,820	496,415	458,283	309,271	381,062	365,705
Brown coal .. .. .	213	301	152	417	154	181	13,004
Briquettes .. .. .	(a)	(a)	(a)	127,174	162,706	219,423	275,672
Coke .. .. .	692,459	822,391	726,433	1,111,295	714,990	511,482	485,976
Cresylic acid .. .. .	113	53	148	192	125	161	274
Benzol .. .. .	—	—	—	99	632	10	116
Tar .. .. .	36,426	34,895	9,837	12,157	16,779	15,431	10,068
Pitch .. .. .	5,153	12,945	5,588	1,839	1,716	12,921	29,696
Naphthalene .. .. .	325	830	688	894	464	1,033	519
Carbolic acid, etc. ..	418	502	1,705	2,551	2,824	11,241	22,596
Newfoundland(c)—							
Anthracite .. .. .	(d) 11,584	18,974	18,370	25,946	22,039	53,956	20,321
Other coal .. .. .	(d) 308,178	422,617	523,570	486,297	438,276	521,669	416,313
Coke .. .. .	(d) 288	316	(e) 267	(e) 503	(e) 421	(e) 3,482	68,764
Tar .. .. .			1,410	839	916	521	396
Pitch .. .. .	(a)	(a)	148	106	104	240	117
Creosote .. .. .			280	12	136	261	856
British Guiana—							
Coal .. .. .	4,266	6,112	8,690	7,902	5,600	6,405	5,250
Coke .. .. .	138	204	45	34	140	131	192
Patent fuel .. .. .	4,810	3,500	95	—	—	—	1,000
British West Indies—							
Bahamas—							
Coal .. .. .	49	37	52	25	93	75	(a)
Barbados—							
Coal, coke, and patent fuel .. .. .	(a)	(a)	(a)	2,010	1,617	3,115	2,134
Bermuda—							
Bituminous .. .. .	3,618	7,935	213,977	5,251	2,686	10,600	3,795
Coke .. .. .	—	—	—	27	5	366	—

(a) Information not available.

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

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

(d) Nine months ended March 31, 1943.

(e) Including charcoal.

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES (Cont.)</b>							
<b>British West Indies—cont.</b>							
Grenada—							
Coal .. .. .	3	2	9	8	3	1	4
Coke .. .. .	4	4	—	29	—	—	—
Jamaica—							
Coal (b) .. ..	40,330	30,677	36,842	34,971	52,284	85,464	39,085
Coke .. .. .	244	91	184	139	157	148	445
Tar .. .. .	5	1	1	3	2	3	6
Leeward Islands—							
Coal, coke and patent fuel .. .. .	(a)	(d) 1,025	(d) 9	3,501	(d) 2,076	(d) 4,021	(a)
St. Lucia—							
Coal .. .. .	18,741	647	—	—	—	3	79
Coke .. .. .	—	1	1	—	2	2	—
Tar .. .. .	4	20	—	—	2	1	25
St. Vincent—							
Coal .. .. .	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Trinidad and Tobago—							
Coal .. .. .	90,548	183,547	78,182	83,073	59,860	86,654	58,960
Coke .. .. .	6,054	2,912	2,181	3,821	30	—	214
Patent fuel .. ..	3,424	—	4	5	—	—	—
Tar and pitch ..	106	35	115	135	150	118	90
Falkland Islands—							
Coal .. .. .	3,024	4,364	1,533	2,762	4,568	2,866	2,500
Coke .. .. .	107	163	110	130	87	174	41
British Honduras—							
Coal and coke .. ..	76	59	15	61	84	27	22
Tar and pitch .. ..	9	9	14	13	229	4	9
Aden—							
Coal (b) .. .. .	279,820	206,136	224,640	211,967	275,114	327,603	201,951
Coke .. .. .	508	55	—	47	20	50	29
Tar and pitch .. ..	17	1	16	11	121	—	5
Naphthalene .. ..	202	379	351	477	357	606	403
India (total imports)—							
Coal .. .. .	8,386	1,647	423	302	8,345	200	10
Coke .. .. .	280	554	67	855	10	—	750
Coal and coke (government stores) .. ..	—	—	—	—	—	—	—
Tar and pitch .. ..	1,235	79	35	592	376	431	657
Naphthalene .. ..	15	13	188	210	146	62	39
Carbolic acid .. ..	10	72	210	148	39	6	27
Malaya (total imports)—							
Coal (b) .. .. .	(a)	(a)	(a)	(a)	57,457	211,165	125,820
Coke .. .. .	(a)	(a)	(a)	(a)	392	2,346	7,337
Tar and pitch .. ..	(a)	(a)	(a)	(a)	994	1,261	1,266
Ceylon—							
Coal (b) .. .. .	333,622	259,581	285,925	332,676	342,966	319,668	343,928
Coke .. .. .	773	295	838	38	319	53	739
Tar and pitch .. ..	290	204	196	233	115	409	263
Cyprus—							
Coal (c) .. .. .	469	660	1,053	1,574	1,110	1,047	7,390
Coke and briquettes .. ..	50	—	6	—	270	379	353
Tar and pitch .. ..	(a)	3	1	3	11	6	2
Naphthalene .. ..	(a)	(a)	7	9	20	38	41

(a) Information not available.

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

(c) Including imports for bunkering purposes.

(d) Incomplete.

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES (Cont.)</b>							
Hong Kong (total imports)—							
Anthracite .. ..	(a)	(a)	(a)	(a)	20,087	16,390	} 325,573
Bituminous .. ..	(a)	(a)	(a)	(a)	12,114	206,816	
Coke .. ..	(a)	(a)	(a)	(a)	517	1,829	
Palestine—							
Anthracite .. ..	9,861	1,683	—	4,676	4,058	} (a)	(a)
Other coal .. ..	123,027	11,578	4,399	11,220	738		
Coke .. ..	1,147	930	405	1,653	93		
Patent fuel .. ..	146	—	—	—	—		
Briquettes .. ..	1,506	—	—	—	—		
Tar and pitch .. ..	15	15	10	3	46		
Australia—							
Coal .. ..	7,529	1,791	4,739	756	1,343	2,600	36,901
Coke .. ..	—	425	—	—	—	862	—
Tar and pitch .. ..	31,335	25,276	68,552	76,613	89,392	156,010	83,799
Naphthalene .. ..	—	—	—	12	45	8	10
Carbolic acid .. ..	3	—	1	3	—	1	1
Tar oil .. ..	131	178	129	208	49	—	56
Fiji—							
Coal .. ..	29,584	19,999	24,396	11,202	20,150	21,997	21,498
Coke .. ..	495	208	289	310	402	442	418
Tar and bitumen .. ..	137	121	173	242	477	1,421	746
New Zealand—							
Coal .. ..	90,865	37,454	—	—	27,185	93,411	62,657
Coke .. ..	905	1,418	2,399	2,674	3,239	2,982	2,633
Tar .. ..	32	49	47	69	94	586	2,776
Pitch .. ..	1,046	313	119	486	621	1,260	751
Benzol, toluol, etc. .. ..	8	1	10	39	101	123	42
Naphthalene (£ N.Z.) .. ..	(£10)	(£747)	(£6,008)	(£32)	(£1,761)	(£2,508)	—
Solomon Islands (b)—							
Coal .. ..	(a)	(a)	(a)	—	—	—	(a)
Sarawak—							
Coal .. ..	(a)	(a)	(a)	(a)	—	260	1
Tar .. ..	(a)	(a)	(a)	(a)	(a)	(a)	63
Irish Republic—							
Anthracite .. ..	83,818	87,546	16,052	23,051	42,686	17,254	55,252
Bituminous .. ..	964,818	927,825	718,602	898,900	1,229,367	1,481,866	1,640,391
Coke .. ..	117,326	115,291	65,539	75,656	74,557	31,132	24,199
Tar and pitch .. ..	59,135	50,031	13,652	18,230	34,155	24,964	7,368
Creosote, etc. .. ..	520	282	370	592	212	1,750	2,592
Tar and bitumen mixture .. ..	2,974	121	180	699	16,317	26,572	36,390
Benzol .. ..	5	—	2	5	9	20	23
<b>FOREIGN COUNTRIES</b>							
Austria—							
Coal .. ..	} (a)	(a)	(a)	(a)	1,866,083	} 1,333,157	} 3,034,767
Brown coal .. ..							
Coke .. ..							
Briquettes .. ..							
Belgium-Luxemburg E.U.—							
Coal .. ..	206,861	201,503	545,151	1,450,738	2,304,206	5,572,931	3,054,434
do. coke .. ..	456	54,887	130,999	311,800	1,217,854	1,242,837	2,446,215
do. briquettes .. ..	146	759	172	12,980	52,004	8,520	338
Brown coal .. ..	—	26	35,476	} 230,605	} 389,005	} (a)	} 4,712
do. do. coke .. ..	288	47	14				
do. do. briquettes .. ..	68,063	202,371	105,911				
Tar .. ..	14,865	9,997	873				
Naphthalene .. ..	6	2	—	(a)	(a)	(a)	373
Distillates .. ..	1,899	575	292	(a)	(a)	(a)	(a)

(a) Information not available.

(b) Years ended March 31 following that stated.

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
<b>Bulgaria—</b>							
Coal .. .. .	19,780	68,468	14,480	816	65	(a)	(a)
Coke .. .. .	9,772	15,320	3,188	2	4,590		
Benzol .. .. .	103	167	165	20	79		
Carbolic acid .. .. .	17	19	7	—	78		
Naphthalene .. .. .	558	477	67	132	236		
Creosote, etc. .. .. .	359	283	221	—	—		
<b>Czechoslovakia—</b>							
Coal .. .. .	(a)	(a)	(a)	(a)	106,543	945,699	(c) 1,722,477
Brown coal .. .. .					42,637	62,003	(c) 10,798
Coke .. .. .					297	20,521	(c) 3,558
Briquettes .. .. .					1,793	—	(c) —
Tar and pitch .. .. .					65	4,043	(c) 109
Benzol, etc. .. .. .					219	1,137	(c) —
Carbolic acid .. .. .					147	27	(c) 31
<b>Denmark—</b>							
Coal .. .. .	1,870,757	2,142,731	2,408,482	1,100,005	2,522,333	3,379,989	2,685,293
Brown coal .. .. .	197	58,170	184,727	22,097	—	—	—
Coke .. .. .	392,287	359,727	303,013	163,865	1,149,402	626,788	790,244
Briquettes .. .. .	26,739	30,097	34,591	2,857	—	—	—
Brown coal briquettes .. .. .	269,991	626,470	524,930	47,092	62,094	249,511	2,520
Tar .. .. .	4	13	821	674	5	—	514
Pitch .. .. .	1,541	2,271	2,212	181	974	2	89
Carbolineum .. .. .	414	408	566	93	46	3	2
Benzol .. .. .	5,771	3,841	2,272	434	2,674	1,074	637
Toluol .. .. .	—	—	192	94	2,121	785	830
Carbolic acid .. .. .	4	7	46	15	240	178	268
<b>Finland (total imports)—</b>							
Anthracite .. .. .	—	2,853	823	—	8,957	1,075	2,492
Other coal .. .. .	769,383	1,046,172	724,265	71,985	676,776	1,278,521	1,968,346
Coke .. .. .	117,638	238,041	165,662	37,555	237,415	195,707	405,989
Tar .. .. .	332	31	3,686	270	156	2,382	1,541
Carbolic acid, creosote and cresol .. .. .	73	134	53	51	310	2,018	1,735
Naphthalene .. .. .	125	35	60	—	59	17	17
Benzol .. .. .	168	330	309	98	261	763	1
Carbolineum .. .. .	22	20	5	—	15	271	323
<b>France—</b>							
Anthracite .. .. .	37,691	33,309	4,774	115,013	431,498	512,353	1,032,610
Bituminous .. .. .	1,547,532	1,373,553	802,359	3,044,552	8,428,770	12,208,208	12,303,462
Lignite .. .. .	512	—	—	—	7,296	33,206	40,848
Coke .. .. .	152,499	425,605	346,747	358,466	1,183,962	1,895,342	3,075,239
Coal briquettes .. .. .	3,333	72,134	7,716	131,465	26,909	3,659	23,061
Brown-coal briquettes .. .. .	23,922	190,763	56,732	174,481	608,524	227,368	261,321
Tar and pitch .. .. .	55,161	39,465	13,604	156,262	437,671	519,193	134,825
Naphthalene .. .. .	298	304	134	1,954	274	—	709
Carbolic acid, etc. .. .. .	—	—	—	—	251	49	153
Anthracene .. .. .	—	—	265	—	1,588	380	934
Benzol .. .. .	7,558	1,864	229	2,098	15,554	14,541	7,533
Heavy coal-tar oils .. .. .	138	—	2,474	1,551	1,884	3,449	(a)
<b>Germany—</b>							
Coal .. .. .	2,159,920	1,449,400	(b) 75,102	(a)	(a)	(a)	} 1,140,695
Brown coal .. .. .	51,548	24,187	(b) 2,988	(a)	(a)	(a)	
Coke .. .. .	2,974,990	2,413,485	(b) 903,337	(a)	(a)	(a)	47,242
Coal briquettes .. .. .	81,121	40,018	(b) 2,436	(a)	(a)	(a)	(a)
Brown-coal briquettes .. .. .	—	—	(b) —				
Tar and pitch .. .. .	5,085	6,421	(b) 3,189				
Naphthalene .. .. .	5,421	7,878	(b) 3,519				
Carbolic acid .. .. .	492	455	(b) 150				
Cresol .. .. .	15	—	—				
Light coal-tar oils, etc. .. .. .	22,014	38,435	(b) 16,412				
Heavy coal-tar oils, etc. .. .. .	44,987	53,197	(b) 18,074				

(a) Information not available.

(b) January to July only.

(c) January to October only.



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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948		
<b>FOREIGN COUNTRIES (Cont.)</b>									
Greece—									
Coal .. .. .	(a)	(a)	(a)	146,287	174,153	182,198	(a)		
Coke .. .. .							528	7,053	(a)
Naphthalene .. .. .							943	413	(a)
Pitch .. .. .							204	174	235
Benzol .. .. .							—	24	2
Hungary—									
Coal .. .. .	(a)	(a)	(a)	(a)	116,875	129,059	} 773,000		
Coke .. .. .	(a)	(a)	(a)	(a)	203,434	415,902			
Iceland—									
Coal .. .. .	134,051	138,606	129,646	114,975	93,959	(a)	(a)		
Coke .. .. .	547	464	1,813	30	135	(a)	(a)		
Tar .. .. .	382	246	417	260	906	(a)	(a)		
Carbolineum .. .. .	35	1	5	7	—	(a)	(a)		
Italy—									
Anthracite .. .. .	(a)	(a)	(a)	(a)	(a)	337,513	239,093		
Bituminous .. .. .							8,153,963	8,088,895	
Lignite .. .. .							189,495	77,629	
Coke .. .. .							257,347	43,017	
Tar and tar oils .. .. .							32,060	(a)	
Naphthalene .. .. .	5,167	3,342							
Netherlands—									
Coal (b) .. .. .	1,241,495	1,227,917	(a)	(a)	2,901,587	3,718,189	3,325,545		
Brown coal .. .. .	577	841							
Coke .. .. .	945	913							
Briquettes .. .. .	1,165	715							
Brown-coal briquettes .. .. .	150,269	143,696							
Tar .. .. .	295	4,139							
Creosote .. .. .	6	24							
Naphthalene .. .. .	—	—							
Carbolic acid .. .. .	12	18							
Benzol .. .. .	1	16							
Toluol and xylol .. .. .	33	42							
Carbolineum .. .. .	5	80							
Solvent naphtha .. .. .	—	—							
Asphalt .. .. .	18	83							
Norway—									
Coal .. .. .	1,166,720	1,357,859	1,114,185	990,857	1,481,680	2,033,691	1,481,437		
Coke .. .. .	—	—	—	—	55,694	10,087	28,332		
Tar and pitch, etc. .. .. .	10,423	6,267	6,252	2,224	8,826	10,988	9,769		
Pitch coke .. .. .	18,415	14,971	16,356	7,166	11,283	18,384	21,327		
Creosote, etc. .. .. .	1,243	1,327	873	474	6,088	7,946	7,960		
Portugal—									
Anthracite .. .. .	30,000	23,592	990	18,342	38,767	40,903	20,267		
Other coal .. .. .	437,165	482,865	564,880	463,208	527,197	912,816	755,104		
Coke .. .. .	13,536	21,888	7,244	5,795	35,382	17,644	42,881		
Briquettes .. .. .	2,260	97	109	—	2,053	(a)	851		
Tar and pitch .. .. .	3,560	7,490	4,741	3,022	8,975	6,446	6,816		
Carbolic acid .. .. .	3	2	36	29	2	27	27		
Naphthalene .. .. .	71	328	120	31	236	122	71		

(a) Information not available.

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

Year	long tons
1942 .. .. .	179,939
1943 .. .. .	146,504
1944 .. .. .	(a)
1945 .. .. .	(a)
1946 .. .. .	181,014
1947 .. .. .	232,451
1948 .. .. .	(a)

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
<b>Spain—</b>							
Bituminous .. ..	81,263	105,550	64,055	52,523	72,149	17,004	467,237
Other coal .. ..	157	—	—	—	—	—	98
Coke .. ..	98,376	65,545	24,696	464	1,764	—	31,963
Briquettes .. ..	1,776	—	—	—	—	6	3,346
Tar and pitch .. ..	6,854	6,497	48,107	8,452	45,290	22,417	63,076
Benzol, toluol, xylol, etc.	1	—	—	—	668	3,002	1,030
<b>Sweden—</b>							
Anthracite .. ..	66,467	84,864	45,862	—	—	517,528	33,517
Other coal .. ..	2,595,412	3,419,868	2,265,439	267,943	2,404,772	3,577,189	5,282,205
Coke .. ..	1,166,887	1,222,645	1,194,520	88,021	995,335	889,523	1,590,353
Briquettes .. ..	90,725	96,880	43,793	745	58,262	636,222	211,467
Tar, pitch, etc. .. ..	658	611	599	725	3,228	7,613	13,587
Benzol, etc. .. ..	2,107	2,777	177	2,204	9,601	4,048	10,033
Carbolic acid, etc. ..	89	82	94	276	1,049	2,043	2,150
<b>Switzerland—</b>							
Coal .. ..	1,165,951	1,128,067	803,532	207,730	1,079,362	1,695,169	1,761,207
Lignite .. ..	63,791	144,593	32,035	399	25,601	68,558	3,057
Coke .. ..	358,888	303,925	309,642	19,506	283,445	394,464	634,952
Briquettes .. ..	290,095	338,137	202,423	7,488	123,105	323,673	197,597
Tar and pitch .. ..	30,180	93,066	61,660	16,325	117,700	50,147	43,463
Creosote, etc. .. ..	96	433	1,067	378	4,663	1,760	2,528
Naphthalene, etc. ..	3,424	2,264	1,306	2,959	9,322	13,303	17,208
<b>Algeria—</b>							
Coal (b) .. ..	515,828	658,810	945,574	216,311	707,727	564,180	382,927
Coke .. ..	4,871	2,871	4,562	2,424	3,378	2,337	2,783
Briquettes .. ..	3,501	58,017	54,542	6,868	15,953	8,755	17,138
Tar and pitch .. ..	1,131	5,391	11,117	2,953	7,212	5,105	(a)
Benzol, toluol, etc. ..	45	6	—	1	3	81	32
Naphthalene .. ..	5	—	—	—	174	13	27
Heavy oils .. ..	—	—	2	—	211	82	362
<b>Angola—</b>							
Coal .. ..	5,975	3,029	5,576	13,313	5,974	5,558	(a)
Coke .. ..	295	221	167	289	459	253	(a)
Tar and pitch .. ..	258	158	172	381	435	667	(a)
<b>Belgian Congo—</b>							
Coal .. ..	} 190,000 {	152,061	173,627	94,935	} (a)	(a)	(a)
Coke .. ..		80,213	91,627	67,994			
Briquettes .. ..		480	—	—			
Tar .. ..		369	297	227			
<b>Cameroon (French)—</b>							
Coal .. ..	2,704	3,148	3,015	149	4,953	10,726	18,073
<b>Canary Islands—</b>							
Coal (c) .. ..	79,338	106,428	118,761	126,442	111,839	186,794	(a)
<b>Cape Verde Islands—</b>							
Coal (c) .. ..	8,234	8,755	19,244	(a)	(a)	(a)	(a)
<b>Ceuta—</b>							
Coal (c) .. ..	120,442	160,911	187,362	231,295	225,834	186,577	(a)
<b>Egypt—</b>							
Coal .. ..	558,019	185,901	306,717	257,658	191,964	267,009	251,910
Coke .. ..	3,648	1,491	4,689	4,915	2,802	1,508	13,184
Briquettes .. ..	—	—	—	—	—	—	24,690
Tar and pitch .. ..	40	6	10	1	26	116	31
Naphthalene .. ..	86	16	38	68	186	24	129
Coal-tar residues ..	7	23	—	—	44	4	256
<b>French Equatorial Africa—</b>							
Coal and briquettes ..	5,089	7,097	5,041	3,842	8,315	11,160	24,876

(a) Information not available.

(b) Total imports (for bunkering purposes) were as follows (long tons): 1942—529,365; 1943—909,845; 1944—48—(a).

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

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
French Somaliland—							
Coal .. .. .	1,199	6,100	5,636	—	17,407	17,321	40,446
French Togoland—							
Coal and briquettes ..	51	—	3,225	4	4,343	31	2,100
French West Africa—							
Coal and briquettes (b)	44,859	59,716	75,607	102,317	112,665	99,167	78,709
Madagascar—							
Coal .. .. .	5,889	10,207	17,725	31,074	36,370	30,779	27,463
Melilla—							
Coal (b) .. .. .	14,521	11,283	12,531	18,007	18,769	16,797	(a)
Morocco (French)—							
Coal .. .. .	69,090	127,361	134,154	113,445	106,702	159,191	(a)
Coke .. .. .	4,703	632	4,281	1,782	1,083	2,898	(a)
Briquettes .. .. .	—	—	—	—	—	—	(a)
Tar .. .. .	117	30	—	52	192	81	(a)
Morocco (Spanish)—							
Anthracite .. .. .	(a)	(a)	1,854	3,970	2,593	1,533	(a)
Other coal .. .. .	(a)	(a)	(a)	(a)	3,778	5,630	(a)
Coke .. .. .	(a)	(a)	(a)	(a)	65	23	(a)
Tar .. .. .	(a)	(a)	6	23	15	13	(a)
Mozambique—							
Coal .. .. .	134,071	133,328	148,983	160,623	169,077	180,861	180,457
Coke .. .. .	81	156	320	125	92	74	48
Tar and pitch .. .. .	648	220	201	355	2,337	674	961
Naphthalene .. .. .	7	25	8	7	9	11	4
Reunion—							
Coal .. .. .	—	39	1,433	1,210	3,595	10,928	11,887
Tunis—							
Coal .. .. .	93,392	43,746	119,192	204,605	282,299	273,700	189,601
Coke .. .. .	4,546	1,204	89	382	48	2,383	4,686
Briquettes .. .. .	97	—	—	—	—	17	—
Tar .. .. .	4	—	5	2,172	1	213	757
Costa Rica (c)—							
Coal .. .. .	(e) 20	(e) 300	(e) 2,300	94	87	122	2,951
Cuba (c)—							
Coal .. .. .	126,919	222,296	143,869	278,099	107,865	(a)	(a)
Coke .. .. .	16,000	14,115	21,881	13,391	(a)	(a)	(a)
Creosote oil .. .. .	68	74	237	147	(a)	(a)	(a)
Tar .. .. .	99	313	307	185	(a)	(a)	(a)
Benzol .. .. .	104	—	266	56	(a)	(a)	(a)
Dominican Republic (c)—							
Coal, coke, briquettes, etc.	(e) 140	(e) 200	1,800	930	(a)	3,808	5,400
French West Indies—							
Guadeloupe—							
Coal .. .. .	89	2,539	6,222	34	2,190	3,631	3,615
Martinique—							
Coal .. .. .	7,458	2,530	7,801	2,947	6,208	—	—
Coke .. .. .	4	2	1	1	864	1	(a)
Guatemala—							
Coal .. .. .	(e) 130	(e) 160	(e) 300	(a)	(a)	1,152	82
Coke .. .. .	(a)	(a)	(a)	(a)	(a)	154	330
Haiti—							
Coal .. .. .	(e) 30	(e) 20	(e) 60	(d) 61	(d) 5	(d) 5	(a)

(a) Information not available.

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

(c) Total imports.

(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	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
Mexico—							
Coal .. .. .	774	2,046	2,078	990	756	} (a)	(a)
Coke .. .. .	2,080	1,257	1,985	2,686	2,323		
Tar and pitch .. .. .	74	34	73	96	56		
Benzol .. .. .	2	3	5	38	181		
Creosote .. .. .	86	317	419	2,258	245		
Nicaragua (total imports)—							
Coal and coke .. .. .	7	229	(b) 150	60	7	58	(a)
St. Pierre and Miquelon—							
Coal .. .. .	9,728	9,975	5,193	6,973	11,614	12,760	18,221
United States—							
Anthracite .. .. .	125,103	95,442	7,581	133	8,532	9,241	846
Bituminous .. .. .	395,273	601,517	494,179	324,766	285,020	235,121	213,346
Lignite .. .. .	5,689	2,157	1,336	11,921	7,103	2,268	1,067
Slack and culm .. .. .	43,772	69,708	68,071	70,400	91,824	20,553	45,222
Coke .. .. .	97,160	87,585	56,254	46,396	46,592	92,845	144,269
Briquettes .. .. .	298	136	463	645	579	346	294
Tar and pitch .. .. .	1,765	1,087	712	1,955	(a)	5,466	(a)
Benzol .. .. .	10,218	108,174	178,930	108,792	7,974	3,516	7,678
Cresylic acid .. .. .	5,377	10,326	8,647	6,106	10,300	9,928	11,558
Creosote oil .. .. .	30,274	8,080	12,621	8,907	9,294	136,897	162,124
Naphthalene .. .. .	79	274	229	310	(a)	1,055	16,778
Carbolic acid .. .. .	—	—	—	—	(a)	1	2
Argentina—							
Coal .. .. .	510,505	566,530	607,076	755,745	1,126,294	} (a)	(a)
Coke .. .. .	29,146	34,847	9,893	30,513	7,450		
Briquettes .. .. .	11,613	6,367	—	—	—		
Tar and pitch .. .. .	115	14	6	329	316		
Naphthalene .. .. .	435	1,264	420	429	1,867		
Carbolic acid .. .. .	735	302	253	1,188	638		
Creolin .. .. .	15	—	—	—	1		
Heavy coal-tar oils .. .. .	1,084	681	1,005	1,824	758		
Bolivia—							
Coal .. .. .	(b) 29,000	(b) 18,000	(b) 24,000	(a)	21,686	8,268	6,888
Brazil (total imports)—							
Coal .. .. .	583,399	529,649	460,280	687,250	1,021,118	1,506,929	1,043,406
Coke .. .. .	23,510	42,846	24,066	17,240	23,111	40,963	22,457
Briquettes .. .. .	—	5,649	—	—	9,961	—	(a)
Carbolic acid .. .. .	46	13	81	245	75	100	(a)
Naphthalene .. .. .	17	1,065	175	6	21	118	(a)
Chile—							
Anthracite .. .. .	99	—	132	93	62	} 31,000	90,000
Other coal .. .. .	17,057	19,327	15,232	452	3,405		
Coke .. .. .	10,545	5,390	9,984	5,214	7,070		
Naphthalene .. .. .	23	56	73	62	24		
Carbolic acid and cresol .. .. .	1,535	1,362	1,003	1,131	993		
Creolin, etc. .. .. .	9	3	49	109	156	556	1,569
Colombia—							
Coal .. .. .	13	152	—	21	57	(a)	(a)
Tar and pitch .. .. .	30	14	(a)	79	160	(a)	(a)
Naphthalene .. .. .	4	7	(a)	8	15	(a)	(a)
Cresol, creolin, etc. .. .. .	16	32	51	60	19	(a)	(a)
Dutch Guiana—							
Coal .. .. .	(b) 7,000	(b) 2,000	(b) 4,000	(a)	1,978	(a)	(a)
French Guiana—							
Coal .. .. .	198	—	—	345	24	54	10

(a) Information not available.

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

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Peru—							
Coal .. .. .	439	579	49	701	370	305	(a)
Coke .. .. .	502	2,869	493	1,363	890	714	(a)
Tar .. .. .	19	15	15	18	18	(a)	(a)
Naphthalene .. .. .	10	54	43	8	13	(a)	(a)
Uruguay—							
Coal .. .. .	147,754	281,097	57,235	(a)	(a)	(a)	(a)
Coke .. .. .	1,650	9,390	1,891	(a)	(a)	(a)	(a)
Naphthalene .. .. .	(a)	17	31	(a)	(a)	(a)	(a)
Venezuela—							
Coal .. .. .	8,944	5,433	(a)	925	1,040	940	(a)
Naphthalene .. .. .	5	20	(a)	8	6	19	(a)
China—							
Coal .. .. .	11	—	51	199	71,951	212,029	135,974
Coke .. .. .	(a)	(a)	(a)	(a)	1,053	4,507	1,183
Tar and pitch .. .. .	(a)	(a)	(a)	(a)	343	287	107
French Indo-China—							
Coal .. .. .	(a)	(a)	(a)	(a)	(a)	7,408	10,244
Iran (total imports) (b)—							
Coal, coke and peat .. .. .	436	128	(a)	(a)	2	1	(a)
Iraq—							
Coal .. .. .	864	31	30	10	} (a)	(a)	(a)
Coke .. .. .	560	1,354	72	107			
Tar and pitch .. .. .	78	69	—	27			
Japan (total imports)—							
Coal .. .. .	8,704,000	6,020,000	3,272,000	(d) 307,072	—	(d) 32,532	d 1,170,147
Korea (total imports)—							
Coal .. .. .	2,876,835	2,888,646	2,937,856	(a)	(a)	(c) 627,960	963,481
Manchuria—							
Coal .. .. .	2,772,509	2,919,146	2,075,681	(a)	(a)	(a)	(a)
Portuguese India—							
Coal .. .. .	6,231	6,544	6,123	6,178	5,640	25,549	(a)
Coke .. .. .	18	10	5	—	1	9	(a)
Briquettes .. .. .	17,048	14,598	12,708	—	—	—	(a)
Syria and Lebanon—							
Anthracite .. .. .	37,963	25,211	—	34,472	24,874	} (a)	(a)
Other coal .. .. .	—	6,365	32,500	—	—		
Coke .. .. .	—	8	—	14	1		
Tar .. .. .	1	—	—	—	1		
Turkey—							
Coal .. .. .	—	15	58	3,470	218	—	25
Cresol and naphthalene	(a)	(a)	248	342	166	495	169
French Oceania—							
Coal .. .. .	2,000	930	7,439	5,311	3,045	6,436	1,003
New Caledonia—							
Coal .. .. .	113,536	174,054	150,386	113,747	53,041	35,670	28,079

(a) Information not available.

(b) Years ended March 20 following year stated.

(c) Exports from Japan to Korea.

(d) Including coke.

# COBALT

## PRODUCTION OF COBALT

(In terms of metal)

(Cwt.)

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
Northern Rhodesia ..	17,826	19,208	18,891	13,335	9,348	7,627	7,759
Canada (b) .. .. .	749	1,571	324	974	660	5,113 (c)	13,793
Australia .. .. .	215	190	175	184	203	162	200
<b>FOREIGN COUNTRIES</b>							
Finland .. .. .	1,600	1,555	1,693	1,653	1,988	2,008	—
Germany (d) .. .. .	2,008	2,736	1,260	(a)	(a)	(a)	(a)
Italy .. .. .	6	10	8	8	—	—	—
Sweden .. .. .	—	—	—	183	—	—	—
Belgian Congo .. .. .	32,576	40,568	36,948	55,200	42,400	69,000	84,600
Morocco (French) .. .. .	53	4,252	4,783	1,929	4,720	7,280	5,510
United States .. .. .	6,565	6,537	7,397	9,818	4,628	(e)	(e)
Bolivia (exports) .. .. .	14	4	—	—	—	—	—
Chile .. .. .	2	57	100	28	—	—	(a)

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

(a) Information not available.

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

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

(d) Partly derived from imported material.

(e) Figures are not available for publication. Production was, however, higher in 1948 than in 1946 and 1947.

EXPORTS OF COBALT, ETC.

(Domestic Produce)

(Cwt.)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Cobalt and cobalt alloys	86	206	8	348	1,435	698	606
Cobalt oxide .. ..	6	12	24	1,043	1,829	1,087	951
Northern Rhodesia—							
Cobalt alloy .. ..	46,911	46,482	47,964	34,268	26,125	18,196	21,214
Canada—							
Cobalt ore (Co content)	1,444	1,456	231	580	429	797	7,776
Cobalt .. ..	8,425	8,135	9,010	5,208	4,558	360	280
Cobalt alloys .. ..	2,027	1,913	1,577	2,866	997	533	792
Cobalt oxides and salts	2,079	598	4,131	4,960	4,072	7,477	7,829
Australia—							
Cobalt ore .. ..	—	40	—	—	—	—	—
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.							
Cobalt .. ..	(b)	(b)	(b)	(b)	(b)	(b)	(b)
Cobalt oxide and pigments .. ..	—	—	29	(a)	(a)	(a)	(a)
Cobalt salts .. ..	—	—	16	(a)	(a)	(a)	(a)
Finland—							
Cobalt ore .. ..	(a)	2,453	1,579	37	4	232	—
Cobalt .. ..	(a)	1,108	1,399	1,516	2,136	682	984
Cobalt oxide .. ..	(a)	64	122	66	38	—	—
France—							
Cobalt salts .. ..	112	18	—	—	12	25	(a)
Sweden—							
Cobalt .. ..	16	14	21	2	—	98	—
Belgian Congo—							
Cobalt .. ..	(a)	96,217	87,359	129,390	93,736	160,662	37,262
Cobalt-copper ingots .. ..							
Morocco (French)—							
Cobalt ore .. ..	3,149	66,139	20	16,732	62,989	31,495	106,294
United States—							
Cobalt ore .. ..	9	346	—	—	13	—	1,203
Cobalt alloys and scrap ..	810	3,294	3,111	17	141	5	435
Cobalt oxide .. ..	108	131	822	(a)	(a)	(a)	(a)
Cobalt salts .. ..	134	186	358	741	(a)	(a)	(a)
Bolivia—							
Cobalt ore (Co content)	14	4	—	—	—	—	—
Chile—							
Cobalt ore .. ..	28	207	—	—	—	(a)	(a)
Cobalt salts .. ..	—	233	—	4	11	(a)	(a)

(a) Information not available.

(b) Exports of cobalt metal are not separately recorded, but imports into the United States from Belgium were as follows (cwt.):—1942-1944 Nil; 1945-4,159; 1946-15,049; 1947-24,339 1948-15,399

## IMPORTS OF COBALT, ETC.

(Less Re-exports)

(Cwt.)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Rondels, pellets and squares .. .. .	5,090	5,172	5,557	3,906	5,179	6,341	8,680
Other kinds, including alloys .. .. .	7,112	22,498	25,079	13,281	9,197	18,021	20,080
Cobalt oxide .. .. .	657	—	2,004	3,279	3,365	4,419	7,177
Other compounds .. .. .	(a)	(a)	(a)	(a)	(a)	2,516	2,734
Canada—							
Ore .. .. .	38,716	19,967	32,824	21,338	10,446	—	7,572
Cobalt oxide .. .. .	1	—	15	144	145	6	1
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Cobalt oxide and pigments .. .. .	128	26	47	(a)	(a)	(a)	(a)
Cobalt salts .. .. .	—	—	—	(a)	(a)	(a)	(a)
Czechoslovakia—							
Zaffre and smalt .. .. .	(a)	(a)	(a)	(a)	522	423	(b) 108
France—							
Cobalt ore .. .. .	3,146	—	(a)	10,669	13,862	4,518	22,643
Matte and speiss .. .. .	—	—	—	—	3,455	4,287	(a)
Ingots .. .. .	—	12	4	606	2,447	2,051	(a)
Cobalt oxide, including zaffre and smalt .. .. .	—	118	—	3	102	10	6
Cobalt salts .. .. .	2	16	—	—	285	709	(a)
Italy—							
Cobalt oxide .. .. .	1,183	63	(a)	—	344	356	226
Sweden—							
Cobalt .. .. .	492	229	301	284	1,567	1,780	1,630
Mexico—							
Cobalt .. .. .	—	11	23	—	2	(a)	(a)
United States—							
Cobalt ore .. .. .	78,248	109,404	14,536	7,678	5,873	10,910	107,760
Co content .. .. .	29,467	17,814	4,662	974	4,585	2,374	22,769
Cobalt metal .. .. .	1,324	2,381	653	8,451	17,282	68,602	47,182
Cobalt oxide .. .. .	(a)	526	2,014	1,077	9,595	7,281	6,922
Cobalt salts .. .. .	2	1	1	2	2	5	12
Argentina—							
Cobalt .. .. .	199	94	302	27	23	(a)	(a)
Brazil—							
Cobalt oxide .. .. .	(a)	(a)	(a)	64	130	180	(a)
China—							
Cobalt oxide .. .. .	(a)	(a)	(a)	(a)	1,108	785	(a)
Japan—							
Cobalt oxide .. .. .	(a)	(a)	(a)	(a)	(a)	2,775	(a)
Turkey—							
Cobalt salts .. .. .	(a)	(a)	—	—	58	60	2

(a) Information not available.

(b) January to October only.



# COPPER

## PRODUCTION OF COPPER ORE

(In terms of metal)

(Long tons)

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
Great Britain .. ..	17	23	27	20	22	20	(a)
Northern Rhodesia (b) ..	246,606	250,998	220,853	194,014	182,289	192,500	213,615
Southern Rhodesia .. ..	262	497	98	155	143	171	129
South West Africa .. ..	—	—	—	—	—	(c) 4,980	8,150
Union of South Africa .. ..	24,195	22,372	22,508	23,638	26,578	28,869	28,983
Canada (d) .. ..	269,492	256,781	244,228	212,015	164,257	201,663	214,939
Newfoundland .. ..	5,576	5,579	4,942	4,619	4,388	3,792	4,061
Burma .. ..	(e) 2,906	—	—	—	—	—	(a)
Cyprus (f) .. ..	60	50	80	180	6,000	15,000	14,900
India .. ..	6,600	6,800	6,600	6,550	6,500	6,350	6,460
Australia .. ..	20,402	24,326	28,056	24,520	17,755	13,123	12,368
New Zealand .. ..	—	—	—	—	60	—	—
<b>TOTAL .. ..</b>	<b>580,000</b>	<b>570,000</b>	<b>530,000</b>	<b>470,000</b>	<b>408,000</b>	<b>466,000</b>	<b>504,000</b>
<b>FOREIGN COUNTRIES</b>							
Austria .. ..	(a)	(a)	7,800	(a)	103	317	811
Finland (d) .. ..	16,464	19,702	16,754	15,808	13,980	15,356	18,089
France .. ..	312	147	81	322	348	380	452
Germany .. ..	24,000	23,000	17,000	(a)	(g) 461	(g) 235	(g) 358
Italy .. ..	2,000	2,000	1,500	700	200	300	300
Norway .. ..	15,227	15,991	14,234	5,121	12,056	14,475	14,873
Portugal .. ..	(a)	700	1,400	1,600	1,800	2,100	2,500
Spain (h) .. ..	7,000	8,000	6,000	7,000	8,500	8,000	9,000
Sweden .. ..	17,771	17,550	15,866	14,690	15,119	12,936	14,601
U.S.S.R. (estimated) (b) ..	140,000	140,000	130,000	120,000	130,000	140,000	170,000
Yugoslavia (h) .. ..	(a)	(a)	(a)	30,000	30,000	30,000	30,000
Angola .. ..	230	220	70	(a)	90	280	388
Belgian Congo (smelter) ..	163,319	154,373	162,871	157,691	141,613	148,458	153,025
Morocco (French) .. ..	256	223	625	382	60	40	433
Cuba .. ..	8,774	6,304	6,480	9,528	12,590	11,044	15,000
Honduras .. ..	40	21	—	—	—	—	—
Mexico (d) .. ..	50,092	48,988	40,647	60,706	60,089	62,489	58,143
Salvador .. ..	—	—	3	3	1	595	1,229
United States (d) .. ..	964,340	973,945	868,347	690,084	543,515	756,753	745,369
Argentina .. ..	107	270	(a)	(a)	(a)	(a)	(a)
Bolivia (exports) .. ..	6,275	5,916	6,073	6,001	6,030	6,142	6,512
Chile (d) .. ..	476,703	489,303	490,456	462,756	345,336	419,931	437,922
Ecuador .. ..	2,700	2,700	3,629	3,764	2,046	91	333

(a) Information not available.

(b) Smelter.

(c) Including ore sorted ex dumps.

(d) Amount estimated as recoverable.

(e) Nine months ended March 31, 1942.

(f) Revised. The figures now represent the estimated copper content of saleable pyrites plus the copper content of copper concentrates produced. The copper content of the latter was as follows (long tons): 1942-1945—Nil; 1946—4,700; 1947—12,100; 1948—11,200.

(g) British Zone only.

(h) Estimated.

PRODUCTION OF COPPER ORE (Cont.)

Producing Country	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Peru.. .. .	34,774	32,879	31,894	31,412	24,204	22,137	17,784
Formosa .. .. .	4,987	5,925	3,922	(a)	(a)	(a)	(a)
Japan .. .. .	81,752	93,232	85,472	27,542	14,739	21,542	25,322
Korea (Southern) .. .. .	1,140	2,020	2,680	1,230	144	127	65
Philippine Republic .. .. .	(a)	(a)	(a)	(a)	—	2,462	3,300
Saudi Arabia .. .. .	10	12	1	—	9	249	66
Turkey (smelter) .. .. .	8,127	9,567	10,781	9,692	9,891	9,921	10,806
TOTAL .. .. .	2,070,000	2,100,000	2,000,000	1,650,000	1,380,000	1,690,000	1,740,000
WORLD'S TOTAL .. .. .	2,650,000	2,700,000	2,500,000	2,120,000	1,790,000	2,160,000	2,240,000

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

(a) Information not available.

## METAL PRODUCTION OF COPPER

(Long tons)

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
Northern Rhodesia ..	246,606	250,998	220,853	194,014	182,289	192,500	213,615
Union of South Africa ..	23,499	21,800	22,043	23,291	26,166	28,568	28,536
Canada (b) .. .. .	240,188	229,065	220,512	195,295	149,043	177,159	190,015
India .. .. .	5,874	6,100	5,730	6,000	6,311	5,931	5,863
Australia .. .. .	24,609	20,457	19,898	20,498	22,659	19,505	11,389
<b>TOTAL .. .. .</b>	<b>541,000</b>	<b>529,000</b>	<b>489,000</b>	<b>439,000</b>	<b>386,500</b>	<b>423,700</b>	<b>449,400</b>
<b>FOREIGN COUNTRIES</b>							
Austria .. .. .	(a)	(a)	4,500	(a)	(a)	372	2,252
Belgium .. .. .	16,700	18,000	4,200	—	—	—	(a)
Finland .. .. .	13,054	15,290	8,618	15,423	24,483	25,370	23,612
France .. .. .	138	81	19	25	2	313	273
Germany .. .. .	40,500	36,000	26,000	(a)	(c) 17,562	(c) 31,510	(c) 61,259
Italy .. .. .	3,128	(d) 1,420	226	394	7	103	164
Norway .. .. .	4,524	1,982	922	1,665	7,430	7,795	8,794
Portugal .. .. .	(a)	(a)	151	168	81	2	—
Spain (e) .. .. .	6,968	9,094	9,330	6,496	9,094	7,795	8,740
Sweden .. .. .	14,907	15,687	14,824	17,960	14,242	14,032	16,909
U.S.S.R. (estimated) ..	140,000	140,000	130,000	120,000	130,000	140,000	170,000
Yugoslavia .. .. .	(f) 31,500	(f) 26,600	(f) 22,300	(g) 20,000	(g) 30,000	(g) 30,000	(g) 30,000
Belgian Congo .. .. .	163,319	154,373	162,871	157,691	141,613	148,458	153,025
Mexico .. .. .	44,023	42,334	32,453	52,445	51,544	54,945	51,136
United States (h) .. ..	1,093,904	1,086,483	1,006,235	771,778	582,876	843,476	826,295
Chile .. .. .	470,189	481,592	482,695	455,409	353,294	402,698	418,897
Ecuador .. .. .	—	3,600	3,629	3,764	2,046	—	—
Peru .. .. .	29,008	27,769	26,463	25,146	19,286	17,542	11,637
China .. .. .	1,246	492	1,014	1,160	672	1,591	(g) 1,000
Japan (i) .. .. .	92,258	109,285	84,724	39,577	22,901	36,235	53,478
Korea .. .. .	4,262	4,482	5,111	(j) 419	(j) 158	(j) 386	(j) 506
Turkey .. .. .	8,127	9,567	10,781	9,692	9,891	9,921	10,806
<b>TOTAL .. .. .</b>	<b>2,180,000</b>	<b>2,180,000</b>	<b>2,040,000</b>	<b>1,680,000</b>	<b>1,420,000</b>	<b>1,772,000</b>	<b>1,849,000</b>
<b>WORLD'S TOTAL</b>	<b>2,720,000</b>	<b>2,710,000</b>	<b>2,520,000</b>	<b>2,120,000</b>	<b>1,810,000</b>	<b>2,196,000</b>	<b>2,298,000</b>

(a) Information not available.

(b) Copper content of blister and anode copper.

(c) British Zone only. Includes secondary metal.

(d) January to June only.

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

(f) U.S. Bureau of Mines.

(g) Estimated.

(h) Secondary metal was recovered as follows (long tons): 1942—828,353; 1943—969,685; 1944—849,055; 1945—898,675; 1946—717,452; 1947—858,697; 1948—868,561.

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

(j) Southern Korea only.

EXPORTS OF COPPER, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom—							
Ore, matte, etc. . . . .	—	—	—	—	56	—	—
Bars and ingots . . . . .	278	112	388	5,990	19,217	20,215	21,247
Scrap . . . . .	—	—	—	150	308	61	(a)
Plates, sheets, etc. . . . .	2,411	1,577	1,675	3,672	16,819	17,420	12,531
Rods and wire . . . . .	4,906	2,463	1,337	7,516	29,859	24,545	28,143
Tubes . . . . .	877	698	1,154	1,633	4,597	4,409	5,742
Sulphate . . . . .	24,761	35,542	20,333	44,317	52,152	25,283	24,524
Northern Rhodesia—							
Blister . . . . .	207,387	199,563	165,928	113,768	124,448	128,416	156,656
Electrolytic . . . . .	39,092	65,590	60,774	60,501	56,241	57,480	59,162
South West Africa—							
Copper-lead ore (Cu content) . . . . .	(b) 1,520	(b) 3,256	—	—	—	16,162	8,957
Copper matte (Cu content) . . . . .	(b) 1,444	—	—	—	—	—	—
Tanganyika Territory—							
Ore . . . . .	8	3	—	(£1,330)	—	—	—
Union of South Africa—							
Copper-gold concentrates	—	—	—	—	526	490	597
Copper matte (Cu content)	(a)	(a)	(a)	(a)	(a)	606	971
Ingots, bars, plates, etc.	20,608	22,997	18,843	23,781	25,257	28,855	23,107
Canada—							
Ore, matte, etc. (Cu content) . . . . .	30,399	32,330	24,990	17,227	15,739	25,977	25,496
Blister . . . . .	5,763	3,816	—	—	—	—	—
Scrap . . . . .	601	506	860	1,284	1,099	5,085	4,684
Ingots, etc. . . . .	88,051	57,440	120,744	115,490	90,549	78,106	103,723
Rods, sheets, etc. . . . .	} 23,947	} 21,935	} 16,128	} 6,501	} 14,023	} 17,579	} 24,972
Tubes . . . . .							
Wire (excl. insulated) . . . . .	(£175,431)	(£1,194,870)	(£228,975)	(£66,342)	(£147,337)	(£819,804)	(£265,564)
Newfoundland (b)—							
Concentrates . . . . .	(c) 14,793	20,498	24,251	17,944	17,631	16,604	14,580
India—							
Matte, etc. . . . .	17	15	8	7	2	188	23
Malaya (including re-exports)—							
Ingots, sheets, wire, etc.	(a)	(a)	(a)	(a)	86	47	38
Cyprus—							
Concentrates (Cu content)	—	5,095	1,400	—	70	12,481	15,486
Hong Kong (including re-exports)—							
Bars, sheets, tubes and wire (incl. alloyed) . . . . .	(a)	(a)	(a)	(a)	160	77	770
Australia—							
Ore, etc. (Cu content) (d)	1,668	595	359	—	—	179	930
Matte . . . . .	—	—	—	—	—	—	331
Blocks and ingots . . . . .	—	—	—	—	6,840	407	32
Scrap . . . . .	} 58	} 129	} 212	} 135	} 230	} 4	} —
Bars, sheets, wire, etc. . . . .							
					1,004	477	62

(a) Information not available.

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

(c) Nine months ended March 31, 1943.

(d) Years ended June 30 of that stated.

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

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948	
FOREIGN COUNTRIES								
Austria—								
Rough copper .. ..	(a)	(a)	(a)	(a)	(a)	3	237	
Scrap .. ..	(a)	(a)	(a)	(a)	(a)	15	15	
Belgium-Luxemburg E.U.—								
Ore .. ..	—	—	—	—	1	(a)	65	
Rough copper .. ..	} 5,040	27,548	26,034	(a)	(a)	102,137	} 88,181	
Scrap .. ..								
Bars, sheets, wire, etc. ..								
Sulphate .. ..								
Bulgaria—								
Ore, matte, etc. .. ..	23,213	14,928	11,517	25,286	16,890	8,863	(a)	
Rough copper and scrap	282	574	26	2	—	(a)	(a)	
Sheets and rods .. ..	8	11	—	—	—	(a)	(a)	
Czechoslovakia—								
Rough copper .. ..	(a)	(a)	(a)	(a)	—	—	(c) 1,508	
Sheets, rods, wire, etc. ..	} (a)	(a)	(a)	(a)	{ 8	70	(c) 185	
Sulphate .. ..						74	76	(c) 11
Denmark—								
Rough copper .. ..	5	775	8	499	298	—	5	
Scrap and alloyed .. ..	2,057	2,025	993	221	71	36	174	
Bars, sheets, wire, etc. ..	3	—	4	3	20	28	30	
Finland—								
Ore .. ..	31,719	35,621	50,065	7,568	—	—	—	
Rough copper and scrap	7,025	6,697	2,276	1,056	4,642	4,317	5,287	
Sheets and wire .. ..	133	51	2	—	237	865	515	
France—								
Ore, matte, etc. .. ..	1,754	589	269	116	2,297	19	—	
Ingots, alloys, etc. .. ..	809	343	1,176	114	625	1,518	690	
Scrap .. ..	28,686	3,463	790	2	109	114	(a)	
Bars, sheets and wire .. ..	8,170	542	33	38	1,299	4,246	2,016	
Sulphate .. ..	1,554	10	—	11	101	6,768	7,886	
Germany—								
Ore, including burnt cupreous pyrites .. ..	1,504	2,872	(b) 815	} (a)	(a)	(a)	(a)	
Rough copper .. ..	17,384	12,530	(b) 1,236					
Coin and scrap .. ..	5,892	2,290	(b) 98					
Bars, sheets, wire, etc. ..	7,877	4,898	(b) 678					
Sulphate, including ferrous sulphate .. ..	7,334	9,272	(b) 2,042					
Italy—								
Ore .. ..	—	—	—	—	—	97	—	
Ingots and alloys .. ..	} 98	1,043	197	—	11,397	430	197	
Scrap .. ..						4,827	1,050	
Bars, sheets, wire, etc., and alloys .. ..	—	—	—	—	3,425	6,656	6,876	
Netherlands—								
Ingots and bars .. ..	32	295	} (a)	(a)	{ 1,672	53	578	
Scrap .. ..	934	392				1,659	2,175	1,951
Sheets, tubes and wire ..	253	148				110	644	572
Sulphate .. ..	197	—				—	2	—
Norway—								
Ore .. ..	3,823	12,563	21,134	3,660	187	227	588	
Matte .. ..	11,340	12,590	12,264	2,105	12,800	14,494	12,054	
Cupreous pyrites .. ..	294,491	297,366	260,022	66,316	156,708	227,378	206,236	
Burnt cupreous pyrites ..	394	1,919	1,555	650	4,055	6,077	2,810	
Rough and refined copper	3,689	1,935	370	344	6,514	6,191	7,939	
Scrap, including alloyed	151	386	134	381	1,853	1,946	1,370	
Portugal—								
Cupreous pyrites .. ..	136	11,104	(a)	92,679	238,798	299,110	406,156	
Rough copper, sheets, etc.	19	86	75	52	11	7	24	
Sulphate .. ..	—	—	1	—	10	21	32	

(a) Information not available.

(b) January to July only.

(c) January to October only.

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

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
Spain—							
Ingots, bars and alloyed	8	45	45	32	14	6	9
Sheets, tubes, wire and alloyed .. .. .	25	69	146	46	105	74	679
Sulphate .. .. .	49	15	317	196	898	363	296
Sweden—							
Rough copper .. .. .	1,397	1,045	430	11	180	2,639	3,882
Scrap, including brass .. .. .	117	97	37	6	79	108	9
Sheets, tubes, wire, etc.	129	506	27	955	7,818	10,112	10,694
Sulphate .. .. .	—	—	—	21	2	—	—
Switzerland—							
Ore, filings and turnings	—	—	—	—	100	235	87
Bars, ingots, etc. .. .. .	2	—	—	—	112	2	101
Scrap .. .. .	—	—	—	—	20	110	10
Sheets, tubes, wire, etc. (b)	5	1	16	17	1,054	3,369	3,695
Algeria—							
Bars, sheets and wire .. .. .	31	33	—	1	1	—	409
Scrap .. .. .	40	5	1	33	263	641	56
Sulphate .. .. .	98	148	133	—	—	—	—
Angola—							
Ore .. .. .	656	634	211	524	3,096	—	(a)
Belgian Congo							
Copper-cobalt ingots (d)		4,811	4,368	6,470	4,687	8,033	6,192
Matte .. .. .		77,292	58,185	28,309		9,749	
Ingots .. .. .	195,703	33,622	35,889	52,845	155,692	68,026	154,911
Cathodes .. .. .		70,000	77,089	79,133		78,700	
Egypt—							
Rough copper and scrap	—	—	—	—	2,032	2,578	22
Morocco (French)—							
Ore .. .. .	317	323	5,540	699	905	—	(a)
Old and scrap .. .. .	44	8	24	27	166	207	(a)
Cuba—							
Ore .. .. .	42,596	22,821	19,075	31,268	34,800	33,919	(a)
Scrap .. .. .	201	157	—	35	(a)	(a)	(a)
Mexico—							
Ore, concentrates, etc. .. .. .	20,845	22,773	35,562	29,925	29,122	37,525	31,736
Rough copper .. .. .	50,773	35,526	3,109	48,293	37,828	41,394	32,463
Cu content (c) .. .. .	49,868	49,186	40,607	58,964	48,767	(a)	(a)
United States—							
Ores, matte, blister, etc. (Cu content) .. .. .	3,057	1,107	—	30	21	103	2,208
Refined ingots, etc. .. .. .	117,327	157,017	61,038	43,360	46,990	132,500	127,319
Scrap .. .. .	1,085	—	87	119	811	866	2,023
Sheets, rods, wire, etc. .. .. .	15,629	23,072	21,972	21,846	(a)	16,654	19,309
Sulphate .. .. .	31,412	27,113	25,823	31,221	36,816	30,376	37,621
Argentina—							
Ore .. .. .	492	—	—	—	197	(a)	(a)
Ingots, sheets and scrap	3	—	—	—	1	(a)	(a)
Bolivia—							
Ore, etc. (Cu content) .. .. .	6,275	5,916	6,073	6,001	6,030	6,142	6,512
Chile—							
Ores and concentrates .. .. .	37,255	56,895	58,871	63,898	24,247	(a)	(a)
Precipitate .. .. .	—	—	—	16	2	—	—
Cu content (c) .. .. .	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Ingots—							
Blister .. .. .	224,400	207,628	213,342	192,086	135,987	152,946	103,342
Electrolytic .. .. .	261,893	234,598	261,135	232,286	232,130	228,237	304,710
Bars and sheets .. .. .	1,739	2,083	3,862	7,743	2,542	(a)	(a)
Sulphate .. .. .	277	215	451	898	54	(a)	(a)

(a) Information not available.

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

(b) Including alloys.

(d) Figures for the years 1942 to 1947 include, if any, exports of granulated cobalt.

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

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Ecuador—							
Concentrates .. ..	7,000	800	900	(a)	(a)	(a)	(a)
Blister .. .. .	400	4,000	2,000	(a)	(a)	(a)	(a)
Peru—							
Ore (Cu content) ..	4,604	3,785	5,576	4,467	3,160	7,055	} 17,437
Matte, etc. (do.) ..	2	36	30	314	189	512	
Bars (do.) .. .	29,648	26,819	26,589	23,340	22,326	17,189	
Precipitate (do.) ..	319	—	139	—	—	649	
Formosa—							
Ore (Cu content) ..	3,880	4,723	4,501	660	(a)	(a)	(a)
Japan—							
Ingots and blocks ..	115	70	860	(a)	} 390	1,968	} 106
Bars, rods and tubes ..	133	101	35	(a)			
Plates, sheets and wire ..	2,034	627	274	(a)		300	
Philippine Republic—							
Ore (Cu content) ..	(b) 1,145	(b) 7,684	(b) 1,951	(b) 187	(a)	(a)	(a)
Syria and Lebanon—							
Ingots and scrap ..	14	—	—	277	811	(a)	(a)
Turkey—							
Ingots .. .. .	(a)	(a)	6,168	332	23,196	5,346	1,224

(a) Information not available.

(b) Imports into Japan from Philippine Islands.

IMPORTS OF COPPER, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Bars, ingots, etc.—							
Electrolytic .. .. .	231,989	293,624	242,736	75,049	166,724	203,205	204,484
Other Refined .. .. .	} 209,004	} 201,165	} 208,813	} 68,666	} 14,749	} 24,445	} 154,241
Blister .. .. .							
Scrap .. .. .	18	45	32	13	471	1,539	522
Plates, sheets, etc. .. .	78	479	29	4	2	97	33
Rods .. .. .	12,225	10,374	3,057	—	6,602	13,557	12,653
Tubes .. .. .	1	14	—	—	—	35	2
Wire .. .. .	18	10,275	359	73	47	1,653	207
Anglo-Egyptian Sudan—							
Refined and alloys .. .	(a)	23	—	83	3	52	33
Sulphate .. .. .	(a)	(a)	—	1	20	142	110
Kenya and Uganda—							
Sheets and wire .. .	2	5	9	4	34	56	337
Southern Rhodesia—							
Ingots, bars and rods ..	63	70	126	282	83	131	265
South West Africa—							
Bars, sheets, pipes, wire, etc. .. .. .	—	—	—	1	2	(a)	(a)
Tanganyika Territory—							
Ore .. .. .	—	—	—	—	22	1	8
Sheets and wire .. .	7	17	31	36	23	82	120
Union of South Africa—							
Bars, ingots and slabs ..	12,331	16,316	20,420	12,691	8,365	(a)	(a)
Plates, sheets and tubes	741	300	944	568	1,239	(a)	(a)
Wire .. .. .	3	156	118	324	710	(a)	(a)
Canada—							
Blocks, pigs and ingots ..	—	—	2	—	—	1	1
Bars, sheets, wire, etc. ..	775	934	626	1,685	2,492	3,300	2,666
Scrap .. .. .	16	2	12	44	37	40	38
Sulphate .. .. .	3,327	4,337	3,687	2,910	604	571	203
British West Indies—							
(Barbados)—							
Bars and sheets .. .. .	(£265)	(£4,022)	(£1,022)	(£314)	(£1,742)	(£1,064)	(£2,509)
India—							
Ingots, cakes, blocks, etc.	8,092	4,882	—	4,678	6,668	12,119	26,264
Scrap .. .. .	299	15	17	100	2,449	2,890	6,883
Sheets, tubes, wire, etc.	8,786	11,469	13,351	8,144	8,702	7,517	2,789
Sulphate .. .. .	2,882	67	3,228	99	1,076	1,548	834
Copper (government stores) .. .. .	800	369	778	2,567	1,488	195	550
Malaya (total imports)—							
Ingots, sheets, wire, etc.	(a)	(a)	(a)	(a)	684	770	1,393
Cyprus—							
Bars, sheets, etc. .. .	3	2	6	23	52	127	247
Hong Kong (total imports)—							
Bars, sheets, tubes and wire incl. alloys .. .. .	(a)	(a)	(a)	(a)	136	485	1,905
Sulphate .. .. .	(a)	(a)	(a)	(a)	79	85	2
Australia—							
Ore and concentrates .. .	—	—	—	—	—	531	—
Matte .. .. .	113	—	—	—	—	—	11
Blocks and ingots .. .	44,242	36,228	1	8	156	1,311	9,264
Bars, sheets, wire, etc. ..	1,979	1,349	1,116	1,558	3,133	680	623

(a) Information not available.



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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES (Cont.)</b>							
New Zealand—							
Bars, sheets, pipes, etc. . .	829	638	1,250	1,401	1,313	1,704	2,502
Wire (£ N.Z.) . . . . .	(£77,549)	(£137,385)	(£328,875)	(£38,949)	(£150,950)	(£252,111)	(a)
Sulphate . . . . .	—	50	351	210	2	—	1
Irish Republic—							
Bars, sheets, wire, etc. . .	491	232	194	1,034	2,220	2,157	2,858
Sulphate . . . . .	4,231	2,166	2,057	3,197	3,444	2,719	4,338
<b>FOREIGN COUNTRIES</b>							
Austria—							
Rough copper . . . . .	(a)	(a)	(a)	(a)	(a)	226	1,426
Scrap . . . . .	(a)	(a)	(a)	(a)	(a)	321	238
Bars, sheets, wire, etc. . .	(a)	(a)	(a)	(a)	(a)	26	411
Sulphate . . . . .	(a)	(a)	(a)	(a)	(a)	866	1,001
Belgium-Luxemburg E.U.—							
Ore . . . . .	957	3,423	815	332	3,212	(a)	13,388
Matte . . . . .	1,284	—	—	—	—	—	(a)
Rough copper . . . . .	2,869	4,123	205	62,878	180,075	220,354	143,956
Scrap . . . . .	2,961	1,535	333	—	—	—	10,922
Bars, sheets, wire, etc. . .	30	15	4	—	—	—	790
Sulphate . . . . .	16	1	—	(a)	(a)	(a)	27
Bulgaria—							
Ore and matte . . . . .	—	—	20	—	—	—	—
Rough copper and scrap	37	6	17	284	677	(a)	(a)
Bars, sheet and wire . .	108	152	3	388	1,668	—	—
Sulphate . . . . .	4,626	6,500	2,302	1,047	7,243	—	—
Czechoslovakia—							
Crude, refined and scrap	(a)	(a)	(a)	(a)	2,976	22,518	(c) 36,610
Sheets, rods, wire, etc. . .	(a)	(a)	(a)	(a)	879	2,994	(c) 327
Denmark—							
Rough copper . . . . .	1,273	1,240	1,088	674	2,574	2,491	3,271
Scrap, including alloyed	441	350	193	338	672	1,338	1,649
Bars, sheets, wire, etc. . .	1,823	2,046	1,153	1,555	7,226	7,227	8,344
Sulphate . . . . .	1	468	1,116	871	2,674	1,142	2,579
Finland (total imports)—							
Rough . . . . .	297	13	10	—	1,130	2,789	1,072
Scrap . . . . .	2	1	—	3	—	—	32
Bars, sheets, tubes and wire	768	727	292	678	276	376	2,992
Sulphate . . . . .	1	7	—	—	—	1	1
France—							
Ore, matte, etc. . . . .	202	5	—	—	—	788	(a)
Ingots—							
Unrefined . . . . .	273	235	4	7,814	19,854	12,068	—
Refined . . . . .	876	23	—	26,752	90,947	104,511	81,058
Alloyed . . . . .	918	40	49	5,408	17,155	10,271	20,617
Scrap . . . . .	176	107	49	88	4,801	31,716	(a)
Bars, sheets and wire . .	412	177	59	60	5,701	4,351	338
Sulphate . . . . .	1,623	3,575	1,518	12,322	26,514	2,384	14,305
Germany—							
Ore and burnt cupreous pyrites . . . . .	370,365	198,788	(b) 90,417	—	—	—	—
Rough copper . . . . .	35,870	63,234	(b) 6,154	—	—	—	—
Coin and scrap . . . . .	26,155	14,317	(b) 1,134	(a)	(a)	(a)	(a)
Bars, sheets, wire, etc. . .	994	1,250	(b) 302	—	—	—	—
Sulphate, including ferrous sulphate . . . . .	8,218	1,638	(b) 298	—	—	—	—

(a) Information not available.

(b) January to July only.

(c) January to October only.

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Greece—							
Rough copper and alloys	(a)	(a)	(a)	22	367	216	(a)
Sheets, tubes, alloys, etc.				2	85	470	(a)
Sulphate .. .. .				4,847	825	(a)	(a)
Iceland—							
Bars, tubes, wire, etc. ..	134	123	163	186	678	(a)	(a)
Italy—							
Ingots and alloys	15,747	11,988	217	1,053	25,363	56,478	56,299
Scrap .. .. .						963	2,838
Bars, sheets, wire, etc., and alloys .. .. .	5,743	492	—	—	213	4,773	(a)
Sulphate .. .. .	(a)	(a)	(a)	(a)	(a)	6,124	693
Netherlands—							
Ingots and bars .. .. .	1,819	202	(a)	(a)	9,600	9,485	15,823
Scrap .. .. .	19	6			8	—	426
Sheets, tubes and wire ..	1,211	1,033			11,523	15,598	9,895
Sulphate .. .. .	59	303			1,049	944	1,352
Norway—							
Rough copper .. .. .	575	235	82	700	1,122	1,484	2,172
Copper-nickel matte .. ..	—	—	3,002	1,882	11,138	14,464	16,771
Bars, sheets, rods, etc. ..	444	107	—	40	314	1,009	1,117
Tubes (including brass) and wire .. .. .	1,065	103	12	2,209	5,832	8,144	7,644
Sulphate .. .. .	257	114	59	312	19	50	258
Portugal—							
Ore and concentrates .. ..	658	255	590	524	205	—	1,076
Ingots, wire, alloys, etc.	2,493	504	580	650	9,119	7,916	7,352
Sulphate .. .. .	2,136	11,097	8,458	5,267	239	1,200	414
Spain—							
Ore .. .. .	—	—	84	84	—	3,972	—
Precipitate and scrap (b)	33	32	84	153	225	2,092	4,606
Ingots (b) .. .. .	—	43	108	3,899	7,029	3,119	5,359
Sheets, tubes and wire (b)	285	486	11	34	170	459	1,065
Sulphate .. .. .	9,900	9,789	2,691	5,629	2,981	11,242	1,365
Sweden—							
Ore .. .. .	507	197	26,800	9,242	273	—	—
Rough copper .. .. .	3,265	1,490	487	14,649	50,673	53,629	34,124
Scrap, including brass .. ..	214	203	83	314	2,277	4,047	6,319
Sheets, rods, wire, etc. ..	161	23	9	2,016	1,292	3,222	1,331
Sulphate .. .. .	104	237	49	10	202	142	126
Switzerland—							
Ore, filings and turnings	304	200	34	363	1,253	977	1,426
Bars, ingots, etc. (b) .. ..	1,082	509	825	8,530	25,990	22,392	32,928
Scrap (b) .. .. .	72	93	127	419	13,047	2,204	2,323
Sheets, tubes, wire, etc. (b)	584	247	85	1,086	7,615	5,994	9,210
Algeria—							
Ore .. .. .	(a)	(a)	117	980	503	605	99
Rough .. .. .	99	1,999	3,002	1,958	1,773	297	2,783
Scrap .. .. .	—	—	3	44	109	10	37
Bars, sheets, wire, etc. ..	415	54	246	63	434	1,050	948
Sulphate .. .. .	—	4,504	1,280	1,090	3,453	7,739	7,289
Angola—							
Bars, sheets, wire, etc. ..	28	11	28	17	66	50	(a)
Cameroon (French)—							
Sulphate .. .. .	—	137	110	100	(a)	(a)	(a)
Egypt—							
Crude and scrap .. .. .	338	191	300	268	(c) 512	(c) 3,866	558
Bars, sheets, tubes, etc.	944	299	214	320	1,055	54	961
Sulphate .. .. .	870	13	142	213	135	1,121	1,207

(a) Information not available.

(b) Including alloys.

(c) Excess of re-exports.

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Madagascar—							
Crude, sheets, wire, etc.	(a)	—	(a)	104	40	65	312
Morocco (French)—							
Ingots, sheets and wire (b)	225	512	453	581	299	498	(a)
Mozambique—							
Bars, sheets, wire and alloys .. .. .	35	36	11	84	286	104	179
Tunis—							
Bars, sheets and wire (b)	122	30	278	300	450	672	425
Sulphate .. .. .	148	182	122	156	60	—	—
Costa Rica—							
Bars, sheets and wire .. .. .	7	24	25	57	68	73	4
Sulphate .. .. .	(a)	(a)	(a)	3,036	5,193	5,112	8,274
Cuba (total imports)—							
Ingots and bars .. .. .	34	116	166	281	(a)	(a)	(a)
Sheets, tubes and wire .. .. .	957	360	496	561	(a)	(a)	(a)
Honduras—							
Sulphate .. .. .	(a)	(a)	(a)	7,276	8,201	(a)	(a)
Mexico—							
Ingots .. .. .	3,751	2,534	3,531	4,941	6,295	(a)	(a)
Bars, sheets, alloys, etc.	311	645	1,466	1,675	1,812	(a)	(a)
Sulphate .. .. .	2,327	3,662	3,580	2,491	2,679	(a)	(a)
United States—							
Cu content of—							
Ore and concentrates	60,427	61,348	53,459	51,729	27,809	72,301	55,353
Matte, precipitate, etc.	40,035	56,817	34,760	45,068	5,247	2,189	1,522
Blister .. .. .	236,776	176,917	153,519	230,474	146,251	190,242	143,079
Refined ingots, bars and plates .. .. .	311,269	354,109	439,322	471,735	136,275	134,253	224,557
Scrap .. .. .	1,635	2,702	947	1,208	934	5,321	8,334
Sulphate .. .. .	—	20	—	2	—	—	30
Argentina—							
Ingots, sheets including bronze .. .. .	10,585	4,782	1,083	8,243	6,503	(a)	(a)
Tubes, including bronze	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Sulphate .. .. .	2,255	—	1,225	4,689	2,904	(a)	(a)
Brazil (total imports)—							
Electrolytic .. .. .	(a)	(a)	(a)	(a)	13,822	5,663	7,396
Rough .. .. .	12,604	6,860	9,883	7,599	6,254	10,428	3,341
Plates and sheets .. .. .	1,129	923	1,449	938	1,447	1,188	716
Tubes, pipes and wire	114	91	828	971	1,134	1,451	849
Sulphate .. .. .	1,624	616	967	916	2,143	582	1,815
Chile—							
Bars, sheets and wire .. .. .	28	51	18	—	—	(a)	(a)
Colombia—							
Ingots, sheets, etc. .. .. .	58	221	102	826	516	(a)	(a)
Wire .. .. .	227	754	691	2,027	689	(a)	(a)
Sulphate .. .. .	162	542	930	363	405	(a)	(a)
Peru—							
Bars, sheets, etc. .. .. .	(c) 50	(c) 162	(c) 52	93	64	(a)	(a)
Sulphate .. .. .	651	354	340	550	866	(a)	(a)
Uruguay—							
Ingots .. .. .	(a)	} 299	382	(a)	(a)	(a)	(a)
Bars and sheets .. .. .	(a)		(a)	(a)	(a)	(a)	(a)
Wire .. .. .	(a)		(a)	(a)	(a)	(a)	(a)
Venezuela—							
Sheets .. .. .	7	68	(a)	243	162	207	(a)
Sulphate .. .. .	29	68	(a)	25	37	70	(a)

(a) Information not available.

(b) Including alloys.

(c) Including brass and bronze.

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
China—							
Ingots and blocks ..	(a)	(a)	(a)	(a)	3,291	2,097	(a)
Bars, sheets, wire, rods and tubes ..	(a)	(a)	(a)	(a)	1,995	1,998	(a)
Iran (total imports) (b)—							
Ingots, bars, sheets and alloys ..	32	13	(a)	(a)	476	626	(a)
Iraq—							
Crude, sheets, pipes, etc.	33	72	46	57	(a)	(a)	(a)
Japan—							
Ore (Cu content) ..	9,060	12,537	6,498	853	(a)	(a)	(a)
Refined copper ..	724	443	4,020	(a)	(a)	190	(a)
Syria and Lebanon—							
Bars, sheets, tubes and wire ..	—	290	132	619	1,160	(a)	(a)
Turkey—							
Ingots, bars, and sheets	(a)	(a)	41	249	992	931	457
Sulphate ..	(a)	(a)	589	1,426	1,056	1,646	436

(a) Information not available.

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

# DIAMONDS

## PRODUCTION OF DIAMONDS

(Metric carats)

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
Gold Coast (exports)—							
Gem diamonds .. ..	377,398	382,907	343,899	264,930	253,443	262,397	320,356
Bort .. ..	450,625	411,328	416,468	275,049	241,104	202,003	297,516
Diamond sand .. ..	227,712	523,560	405,490	272,471	314,453	282,634	260,220
Sierra Leone .. ..	1,046,187	834,492	608,734	503,999	559,232	605,554	465,698
South West Africa ..	56,420	88,189	154,379	152,629	165,150	179,554	200,691
Tanganyika Territory ..	(b) 40,327	(b) 52,998	87,335	119,139	120,045	(b) 92,229	(b) 148,103
Union of South Africa ..	118,821	302,329	933,682	1,222,945	1,349,099	1,242,423	1,382,327
British Guiana .. ..	22,797	18,756	16,339	15,852	31,732	24,669	36,563
India .. ..	2,823	2,533	1,837	1,380	1,107	1,284	2,426
Australia .. ..	183	429	198	73	50	73	—
TOTAL .. ..	2,343,000	2,618,000	2,968,000	2,828,000	3,034,000	2,892,100	3,113,900
<b>FOREIGN COUNTRIES</b>							
Angola .. ..	791,853	794,990	799,120	803,887	806,962	799,210	795,509
Belgian Congo—							
Gem diamonds .. ..	615,778	332,029	388,814	458,696	367,099	540,690	550,814
Industrial do. .. ..	5,402,458	4,549,713	7,144,552	9,927,259	5,666,353	4,933,827	5,273,753
French Equatorial Africa ..	46,235	56,185	57,052	82,849	87,230	107,076	118,800
French West Africa .. ..	49,866	36,193	69,726	79,802	51,834	53,749	77,970
Brazil (c) .. ..	300,000	275,000	370,000	275,000	325,000	275,000	250,000
Venezuela .. ..	34,048	22,846	22,037	12,762	20,912	61,634	75,512
TOTAL .. ..	7,240,000	6,070,000	8,850,000	11,640,000	7,325,000	6,771,000	7,142,000
WORLD'S TOTAL	9,583,000	8,688,000	11,818,000	14,468,000	10,359,000	9,663,000	10,256,000

(a) Information not available

(b) Exports.

(c) Estimated.

PRODUCTION OF DIAMONDS

(£ sterling)

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
Gold Coast (exports)—							
Gem diamonds .. ..	381,055	390,030	357,669	274,706	338,225	402,492	616,513
Bort .. ..	101,428	92,568	95,483	61,888	71,393	74,873	107,287
Diamond sand .. ..	131,022	238,896	205,876	142,812	212,907	269,197	252,260
Sierra Leone .. ..	922,754	938,803	723,176	598,750	806,412	1,211,108	1,106,032
South West Africa ..	472,970	712,555	952,883	1,277,980	1,694,500	1,920,869	2,369,104
Tanganyika Territory ..	(c) 84,745	(c) 155,925	(b) 296,939	(b) 657,746	(b) 986,870	(c) 629,589	(c) 1,040,459
Union of South Africa ..	701,964	1,812,175	5,846,179	6,425,096	9,041,762	7,166,528	8,719,356
British Guiana .. ..	89,341	84,242	80,929	95,276	288,718	155,659	208,962
India .. ..	20,632	22,253	16,359	13,491	13,314	12,952	31,311
Australia .. ..	270	720	383	134	115	215	—
<b>TOTAL .. ..</b>	<b>2,906,000</b>	<b>4,448,000</b>	<b>8,576,000</b>	<b>9,432,000</b>	<b>13,040,000</b>	<b>11,840,000</b>	<b>14,451,000</b>
<b>FOREIGN COUNTRIES</b>							
Angola (b) .. ..	990,000	990,000	1,000,000	1,000,000	1,400,000	1,650,000	(a)
Belgian Congo .. ..	(b) 1,042,000	(b) 500,000	(b) 1,023,000	(b) 1,488,000	(b) 2,051,000	(b) 1,369,000	1,453,000
French Equatorial Africa ..	96,000	136,000	153,000	580,000	414,000	484,000	388,000
French West Africa .. ..	(a)	(a)	(a)	559,000	73,000	64,000	72,000
Brazil (estimated) .. ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Venezuela .. ..	140,423	102,888	100,546	54,993	71,648	189,836	119,000
<b>TOTAL .. ..</b>	<b>3,400,000</b>	<b>2,800,000</b>	<b>3,400,000</b>	<b>4,600,000</b>	<b>5,100,000</b>	<b>4,800,000</b>	<b>4,800,000</b>
<b>WORLD'S TOTAL</b>	<b>6,306,000</b>	<b>7,248,000</b>	<b>11,976,000</b>	<b>14,032,000</b>	<b>18,140,000</b>	<b>16,640,000</b>	<b>19,250,000</b>

(a) Information not available.

(b) Estimated on export value.

(c) Exports.

EXPORTS OF DIAMONDS

(Domestic Produce)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
Gold Coast—							
Gem diamonds .. Ct.	377,398	382,907	343,899	264,930	253,443	262,397	320,356
£	381,055	390,030	357,669	274,706	338,225	402,492	616,513
Bort .. .. Ct.	450,625	411,328	416,468	275,049	241,104	202,003	297,516
£	101,428	92,568	95,483	61,888	71,393	74,873	107,287
Diamond sand .. Ct.	227,712	523,560	405,490	272,471	314,453	282,634	260,220
£	131,022	238,896	205,876	142,812	212,907	269,197	252,260
Sierra Leone .. Ct.	889,909	1,035,367	610,212	493,411	304,896	574,336	461,685
£	(a)	(a)	(a)	(a)	(a)	(a)	(a)
South West Africa (uncut)							
Ct.	88,878	94,256	148,499	249,474	153,452	(a)	(a)
£	647,952	721,698	918,909	1,195,773	1,362,794	(a)	(a)
Tanganyika Territory Ct.	40,327	52,998	90,067	(b) 115,620	(b) 119,446	92,229	148,103
£	84,745	155,925	306,306	(b) 638,383	(b) 981,833	629,539	1,040,459
Union of South Africa—							
Uncut .. .. Ct.	766,357	446,611	639,153	1,227,066	835,460	(a)	(a)
£ (S.A.)	1,972,316	2,509,194	3,595,762	5,950,724	6,107,776	(a)	(a)
Cut and polished Ct.	56,702	56,090	55,431	77,823	80,539	(a)	(a)
£ (S.A.)	2,481,188	3,395,092	3,230,423	4,789,002	5,959,192	(a)	(a)
Canada—							
Industrial diamonds and dust .. .. Ct.	(a)	(a)	(a)	(a)	(a)	10,000	—
£	(a)	(a)	(a)	(a)	(a)	2,743	—
British Guiana .. Ct.	21,223	17,180	14,262	17,683	29,360	26,553	34,808
£	82,885	76,875	67,837	106,462	265,128	167,536	274,617
Palestine—							
Polished .. .. Ct.	26,259	61,740	76,996	137,832	116,588	(a)	(a)
£ P.	947,144	2,620,624	3,235,117	5,909,297	5,502,878	(a)	(a)
Powder .. .. Ct.	(a)	(a)	(a)	(a)	1,100	(a)	(a)
£ P.	(a)	(a)	(a)	(a)	165	(a)	(a)
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Cut and polished Ct.	—	—	—	128,493	294,745	330,210	264,426
£	—	—	—	4,993,862	12,826,484	11,575,092	9,381,362
Industrial diamonds Ct.	—	—	—	(a)	244,817	576,302	855,631
£	—	—	—	(a)	553,557	988,558	1,355,520
Czechoslovakia—							
Glaziers' diamonds £	(a)	(a)	(a)	(a)	460	649	(c) 10
France—							
Cut and polished £	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Netherlands—							
Unpolished .. .. £	(a)	(a)	(a)	—	220,000	(a)	(a)
Polished .. .. £					2,300,000	(a)	(a)
Industrial diamonds £					98,000	(a)	(a)
Angola .. .. Ct.	738,689	980,527	807,923	801,714	808,442	802,099	(a)
£	924,000	1,227,000	1,011,000	1,002,960	1,395,500	1,612,116	(a)
Belgian Congo—							
Gem diamonds .. Ct.	345,000	220,000	220,000	227,000	1,306,516	1,150,750	1,084,000
£	146,000	93,484	93,734	97,875	1,422,589	1,159,269	
Industrial diamonds Ct.	7,500,000	10,017,000	14,134,719	7,340,000	4,751,267	6,786,000	3,450,000
£	872,521	961,643	1,656,181	950,618	654,142	829,586	
French Equatorial Africa Ct.	35,000	43,000	10,000	60,000	142,000	140,476	124,801
£	33,100	103,400	10,000	35,000	550,000	(a)	(a)

(a) Information not available.

(b) 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.

(c) January to October only.

## EXPORTS OF DIAMONDS (Cont.)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
French West Africa Ct.	25,000	61,000	96,000	73,000	95,000	30,000	35,000
£	(a)	4,673	(a)	60,000	167,000	25,000	(a)
Cuba—							
Cut .. .. . £	—	238,500	1,498,000	(a)	(a)	(a)	(a)
United States—							
Industrial diamonds Ct.	37,654	59,852	74,180	119,895	(a)	92,626	47,747
£	51,000	61,000	60,000	10,771	(a)	127,115	77,510
Dust .. .. . Ct.	45,448	116,478	119,458	92,019	(a)	122,925	52,600
£	12,779	33,569	33,069	23,762	(a)	80,539	19,938
Brazil (b)—							
Diamonds (c) .. Ct.	235,820	197,285	192,185	91,910	126,460	143,340	60,430
£	1,595,000	2,179,000	1,898,000	1,501,000	1,584,000	694,962	249,370
Carbons .. .. Ct.	13,615	19,495	10,795	3,910	14,070	10,620	35,070
£	55,300	76,100	44,903	15,770	57,690	24,741	108,241
Venezuela .. .. Ct.	5,829	20,839	21,149	1,208	11,148	55,449	(a)
£	23,000	190,000	170,000	79,000	150,000	310,000	(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		1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES								
United Kingdom (b)	Ct.	10,622,590	16,145,636	17,712,586	11,231,178	9,307,118	9,853,385	(a)
	£	6,258,742	7,810,398	8,821,843	10,892,848	12,988,187	6,173,597	(a)
Kenya and Uganda	Ct.	(a)	(a)	(a)	(a)	(a)	(a)	60
	£	(a)	(a)	(a)	(a)	(a)	(a)	547
Northern Rhodesia—								
Uncut .. .. .	Ct.	17,611	13,056	3,840	19,371	27,068	10,732	(a)
	£	15,409	9,299	2,565	14,226	20,480	9,890	(a)
Union of South Africa—								
Rough diamonds	Ct.	(c) 19,534	(c) 13,052	(d) 111,827	279,810	3,202,127	(a)	(a)
	£ (S.A.)	(c) 10,894	(c) 27,439	(d) 236,789	23,384	987,383	(a)	(a)
Cut and polished	Ct.	80	2	56	—	519	(a)	(a)
	£ (S.A.)	3,381	40	100	—	19,985	(a)	(a)
Canada—								
Unset .. .. .	£	215,134	316,190	465,865	741,442	1,439,589	699,739	1,309,013
Dust, bort, etc. ..	£	310,772	366,521	386,835	446,135	943,976	265,820	541,985
Bermuda .. .. .	£	1,987,712	8,811	2,437	2,279	2,417	—	—
Ceylon .. .. .	Ct.	—	—	—	—	—	—	334
	£	—	—	—	—	—	—	15,953
India .. .. .	£	168,962	905,761	1,341,290	1,508,648	1,691,369	2,409,045	562,345
Malaya (total imports)	£	(a)	(a)	(a)	(a)	—	20,484	10,496
Palestine—								
Rough diamonds	Ct.	176,436	481,302	416,039	625,123	499,765	(a)	(a)
	£ P.	366,173	1,138,426	1,522,361	2,810,696	3,269,258	(a)	(a)
Polished do. .. .	Ct.	1,336	628	1,852	3,958	532	(a)	(a)
	£ P.	66,754	67,007	142,923	310,670	50,130	(a)	(a)
Powder .. .. .	Ct.	32,700	29,800	25,000	146,204	103,276	(a)	(a)
	£ P.	7,108	5,608	32,486	26,636	28,141	(a)	(a)
FOREIGN COUNTRIES								
Belgium-Luxemburg E.U.—								
Cut diamonds .. .	Ct.				—	—	12,614	2,374
	£				—	—	463,099	57,255
Rough diamonds	Ct.	(a)	(a)	(a)	875,926	2,051,738	1,579,037	1,332,612
	£				3,745,503	11,474,371	7,157,717	7,943,656
Industrial diamonds	Ct.				283,097	518,390	223,707	390,682
	£				43,901	104,596	90,426	149,218
Czechoslovakia—								
Glaziers' diamonds	£	(a)	(a)	(a)	(a)	89	1,488	—
France—								
Cut and polished	£	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Industrial diamonds	£	(a)	(a)	(a)	(a)	(a)	(a)	1,673
Netherlands—								
Unpolished .. .	£	—	(a)	(a)	(a)	2,000,000	(a)	2,070,000
Polished .. .. .	£	—	—	(a)	(a)	50,000	(a)	240,500
Industrial diamonds	£	(a)	(a)	(a)	(a)	130,000	(a)	546,000
Switzerland—								
Industrial diamonds	£	(a)	26,000	6,000	44,000	(a)	(a)	(a)
Egypt—								
Cut .. .. .	Ct.	—	—	—	30	74	(a)	(a)
	£	—	—	—	1,338	849	(a)	(a)

(a) Information not available.

(b) Declared imports represent a very small proportion of actual imports. These figures, therefore, represent exports of Rough Diamonds from the Union of South Africa, South-West Africa, Gold Coast, Sierra Leone, Tanganyika 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 the Union of South Africa and South West Africa in 1947 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, 1,114,314 carats—£189,574 for January to June, 1947, 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.

## IMPORTS OF DIAMONDS (Cont.)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Mexico—							
Uncut .. .. Ct.	14,915	130	935	4,215	22,820	} (a)	(a)
£	720	381	1,805	13,385	7,805		
Cut .. .. Ct.	3,650	20,530	15,580	13,830	19,830		
£	43,934	181,467	435,712	490,593	511,501		
Industrial diamonds Ct.	215,645	177,620	194,560	499,140	323,590		
£	9,995	6,264	6,626	8,369	8,144		
United States—							
Uncut .. .. Ct.	278,437	751,240	896,547	895,219	1,044,717	1,075,478	912,762
£	2,465,000	9,291,000	10,806,000	10,702,676	12,076,636	10,682,682	11,032,349
Cut and polished Ct.	126,004	193,701	169,097	377,493	604,638	347,810	389,314
£	3,633,000	7,806,000	7,196,907	15,835,132	29,272,508	13,268,372	13,956,559
Industrial diamonds Ct.	10,894,150	11,697,057	12,614,507	10,733,411	4,625,282	3,920,014	10,418,316
£	5,137,000	4,980,000	5,680,954	3,182,125	3,547,776	3,186,319	8,069,851
Dust .. .. Ct.	1,050	38,836	42,316	62,317	77,732	116,391	224,430
£	200	3,000	14,593	11,715	32,077	57,106	153,415
Chile—							
Industrial diamonds Ct.	—	—	4,726	13,595	3,100	(a)	(a)
£	—	—	3,876	11,901	3,833	(a)	(a)
Peru—							
Glaziers' diamonds £	15	44	146	61	—	(a)	(a)
Venezuela—							
Carbons .. .. £	13,800	5,400	57	597	14,400	51,837	(a)
Philippine Republic—							
Diamonds .. .. Ct.	(a)	(a)	(a)	—	4,322	(a)	(a)
£	(a)	(a)	(a)	469	33,819	(a)	(a)
Dust and bort .. Ct.	(a)	(a)	(a)	—	100	(a)	(a)
£	(a)	(a)	(a)	—	371	(a)	(a)

(a) Information not available.

# DIATOMACEOUS EARTH

## PRODUCTION OF DIATOMACEOUS EARTH

(Long tons)

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
Great Britain .. ..	3,000	3,000	3,000	3,000	2,000	2,328	(a)
Northern Ireland .. ..	24,572	18,774	25,408	9,958	7,049	8,638	6,858
Kenya .. ..	(a)	(a)	(a)	444	508	724	1,019
Union of South Africa .. ..	581	182	321	68	147	713	1,289
Canada (Shipments) .. ..	326	88	12	41	80	92	41
Australia .. ..	4,242	4,075	3,605	3,088	4,957	5,543	4,438
New Zealand .. ..	419	128	55	255	348	436	103
<b>FOREIGN COUNTRIES</b>							
Austria .. ..	(a)	(a)	(a)	(a)	850	1,937	4,701
Denmark—							
Diatomaceous earth (b) ..	1,452	5,044	1,402	1,132	1,895	4,510	5,717
Moler (c) .. ..	40,000	50,000	40,000	(a)	40,000	60,000	70,000
Finland .. ..	295	376	357	686	815	830	1,067
France .. ..	11,141	11,280	4,343	10,381	20,122	29,042	37,115
Italy .. ..	5,423	1,245	—	—	(a)	(a)	(a)
Norway .. ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Spain .. ..	—	—	3,672	543	768	(a)	(a)
Sweden .. ..	2,225	1,643	1,484	1,601	1,626	1,673	1,737
Algeria .. ..	8,400	6,100	226	4,832	5,866	6,437	8,276
Egypt .. ..	1,234	902	821	960	1,366	1,319	1,343
United States .. ..	(d) 156,212	(d) 156,212	(d) 156,212	(e) 190,704	(e) 190,704	(e) 190,704	(a)
Argentina .. ..	207	375	300	—	(a)	(a)	(a)
Chile .. ..	236	65	772	219	(a)	(a)	1,044
Korea .. ..	(a)	(a)	11,300	(a)	(a)	(a)	(a)

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

(a) Information not available.

(b) Revised.

(c) Estimated.

(d) Average annual production 1942-1944.

(e) Average annual production 1945-1947.

EXPORTS OF DIATOMACEOUS EARTH

(Domestic Produce)

(Long tons)

Exporting Country	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
Canada (including other natural abrasives) .. ..	5	9	5	11	3	53	10
Australia .. ..	(a)	(a)	(a)	(a)	65	168	144
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.	(a)	(a)	(a)	(a)	(a)	(a)	6,733
Denmark—							
Moler .. .. .	30,782	37,186	30,950	2,784	35,884	47,371	55,712
Moler bricks .. .. .	5,235	4,954	3,408	1,130	3,496	4,388	6,497
Finland .. .. .	142	5	—	15	88	59	107
France .. .. .	993	143	28	218	1,310	1,596	877
Germany .. .. .	3,027	2,601	(b) 1,330	(a)	(a)	(a)	(a)
Italy .. .. .	(a)	(a)	(a)	(a)	(a)	15	5
Norway .. .. .	—	—	—	3	125	214	280
Portugal .. .. .	940	504	5	21	1	13	26
Sweden .. .. .	—	1	2	23	23	—	41
Algeria .. .. .	6,619	416	191	2,754	5,687	3,524	6,713
Brazil .. .. .	99	—	—	297	—	—	—
Chile .. .. .	236	116	158	168	80	(a)	(a)

(a) Information not available.

(b) January to July only.

# IMPORTS OF DIATOMACEOUS EARTH

(Less Re-exports)

(Long tons)

Importing Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom .. ..	4,177	5,697	8,933	5,568	32,361	48,962	52,178
Union of South Africa ..	79	55	33	146	205	(a)	(a)
Canada .. ..	3,834	5,021	10,414	11,801	15,235	13,459	15,358
Australia .. ..	(a)	(a)	(a)	(a)	585	1,495	572
<b>FOREIGN COUNTRIES</b>							
Belgium-Luxemburg E.U.	(a)	(a)	(a)	(a)	(a)	(a)	2,277
Denmark .. ..	175	128	65	—	24	25	89
Finland (total imports) ..	35	13	59	91	3	71	103
France .. ..	6,915	301	74	1,096	4,689	2,974	3,211
Germany .. ..	35,566	34,746	(b) 19,130	(a)	(a)	(a)	(a)
Italy .. ..	(a)	(a)	(a)	(a)	(a)	22	161
Norway .. ..	826	2,486	819	71	455	1,142	1,540
Portugal .. ..	167	38	5	21	82	119	73
Sweden .. ..	377	337	252	374	753	862	720
Algeria .. ..	8	—	—	50	30	12	46
Egypt .. ..	50	—	—	32	(c) 58	(c) 64	(c) 1
Tunis .. ..	72	—	1	42	139	126	4
Cuba (total imports) ..	1,880	1,960	2,124	2,910	(a)	(a)	(a)
Mexico .. ..	684	757	884	779	1,156	(a)	(a)
Chile .. ..	—	35	42	18	—	(a)	(a)
Peru .. ..	420	194	597	628	274	(a)	(a)
Venezuela .. ..	(a)	(a)	(a)	12	175	282	(a)

(a) Information not available.

(b) January to July only.

(c) Total imports.

# FELSPAR

## PRODUCTION OF FELSPAR

(Long tons)

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
Great Britain—							
China stone .. ..	30,897	32,980	29,262	32,125	36,495	47,709	(a)
Northern Ireland .. ..	10	200	169	—	—	—	—
Kenya .. ..	—	—	—	108	43	35	10
Union of South Africa .. ..	—	—	(b) 658	(b) 625	1,537	1,649	2,533
Canada (sales) .. ..	19,884	21,302	20,990	27,005	31,467	32,236	48,974
India .. ..	2,067	1,319	338	335	1,283	1,722	(e) 847
Palestine .. ..	(a)	84	64	36	52	(a)	(a)
Australia (including china stone) .. ..	5,879	6,712	7,586	6,114	7,856	8,431	9,613
<b>FOREIGN COUNTRIES</b>							
Austria .. ..	731	346	866	472	758	936	1,000
Finland .. ..	3,338	3,515	3,527	3,346	3,563	2,013	5,968
France .. ..	14,635	19,030	9,457	16,113	27,745	43,407	56,254
Germany (Bavaria only) .. ..	12,137	(a)	(a)	(a)	(a)	(a)	(a)
Italy .. ..	7,379	6,559	1,451	841	8,043	9,431	13,256
Norway—							
Unground .. ..	4,476	4,703	7,077	3,881	2,808	15,863	23,008
Ground .. ..	1,694	919	783	296	2,440	5,927	9,586
Portugal .. ..	—	—	629	667	842	1,119	1,535
Spain .. ..	4,184	1,076	2,526	(a)	(a)	(a)	(d) 7,841
Sweden—							
Unground .. ..	11,441	15,747	7,687	5,061	11,100	21,604	21,268
Ground .. ..	7,498	9,723	7,605	9,872	13,777	15,749	16,808
Egypt .. ..	19	31	79	63	—	—	—
Madagascar .. ..	9	2	33	—	12	—	—
United States (sales) .. ..	316,166	308,180	327,408	373,054	508,380	459,910	460,713
Argentina .. ..	5,533	1,968	3,413	5,290	(a)	(a)	(a)
Chile .. ..	(a)	(a)	(a)	(a)	(a)	(a)	871
Peru .. ..	—	—	—	325	171	29	207

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

(a) Information not available.

(b) Sales and shipments.

(c) Exports.

(d) In addition 3,000 cubic metres were obtained from quarries.

(e) Incomplete.

EXPORTS OF FELSPAR

(Domestic Produce)

(Long tons)

Exporting Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom (b) ..	103	207	3	1,969	2,998	2,005	1,234
Canada .. .. .	9,836	11,361	11,679	15,079	17,178	16,349	28,096
Palestine .. .. .	3	5	6	2	3	(a)	(a)
<b>FOREIGN COUNTRIES</b>							
Austria .. .. .	(a)	(a)	(a)	(a)	(a)	348	162
Belgium-Luxemburg E.U. ..	438	16	21	(a)	(a)	(a)	(a)
Czecho-slovakia .. .. .	(a)	(a)	(a)	(a)	130	15	—
Finland .. .. .	2,291	1,267	2,048	229	3,293	4,361	3,641
France .. .. .	(a)	361	20	49	841	3,339	4,361
Germany .. .. .	15,266	12,834	(c) 7,380	(a)	(a)	(a)	(a)
Netherlands .. .. .	—	—	(a)	(a)	—	1,649	2,302
Norway—							
Crude .. .. .	4,758	4,305	6,481	1,312	4,947	15,922	22,139
Ground .. .. .	1,469	479	514	242	2,257	7,220	7,515
Sweden .. .. .	16,439	14,306	4,683	5,454	18,651	22,347	20,463

(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	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom (b) ..	567	1,214	3	3,198	10,309	9,295	14,664
Canada .. .. .	503	470	487	737	629	287	185
Palestine .. .. .	13	16	12	23	83	(a)	(a)
<b>FOREIGN COUNTRIES</b>							
Austria .. .. .	(a)	(a)	(a)	(a)	(a)	—	53
Belgium-Luxemburg E.U. ..	12,577	6,679	2,355	(a)	(a)	(a)	(a)
Czecho-slovakia .. .. .	(a)	(a)	(a)	(a)	50	1,890	(c) 250
Denmark .. .. .	1,745	1,656	2,354	1,710	1,450	2,221	3,195
Finland (total imports) ..	39	20	—	—	—	—	111
France .. .. .	(a)	1,043	369	—	549	1,801	3,738
Germany .. .. .	18,933	16,343	(d) 9,883	(a)	(a)	(a)	(a)
Netherlands .. .. .	2,693	1,017	(a)	(a)	2,060	8,066	8,200
Sweden .. .. .	278	—	108	—	1,891	3,555	1,094
Mexico .. .. .	1,014	924	717	1,384	1,699	(a)	(a)
United States .. .. .	9,525	10,795	11,695	14,924	16,385	16,685	31,047
Chile .. .. .	—	1	—	1	7	(a)	(a)

(a) Information not available.

(b) Including china stone up to 1945 inclusive.

(c) January to October only.

(d) January to July only.

# FLUORSPAR

## PRODUCTION OF FLUORSPAR

(Long tons)

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom .. ..	43,226	(b) 54,236	(b) 48,154	43,582	46,454	44,305	(a)
Southern Rhodesia ..	98	293	—	—	—	152	12
Union of South Africa ..	4,119	4,572	3,426	3,599	4,745	4,739	3,695
Canada .. ..	5,535	10,009	6,182	6,580	7,180	6,416	10,125
Newfoundland .. ..	34,690	99,112	47,801	38,648	11,432	22,985	71,096
India .. ..	4,045	1,640	1,229	431	—	—	—
Australia .. ..	645	996	774	931	1,182	1,200	511
<b>FOREIGN COUNTRIES</b>							
France .. ..	27,014	23,780	13,190	14,305	18,931	31,097	31,876
Germany—							
Anhalt .. ..	12,273	7,524	} (a)	(a)	} (c) 2,077	(a)	(a)
Baden .. ..	31,126	36,503				(a)	(a)
Bavaria .. ..	58,698	71,619				(a)	(a)
Prussia .. ..	27,401	24,101				(a)	(a)
Saxony .. ..	11,620	16,044				(a)	(a)
Thuringia .. ..	31,780	39,605				(a)	(a)
Italy .. ..	32,561	30,005	6,650	3,280	7,683	19,962	38,951
Norway .. ..	2,367	4,432	2,717	3,092	4,517	1,072	1,102
Spain .. ..	16,039	35,344	54,717	9,484	8,574	13,666	41,877
Sweden .. ..	461	2,074	1,807	3,394	3,662	2,736	4,235
Tunis .. ..	—	16	—	—	—	—	515
Mexico (d) .. ..	5,905	22,527	55,596	49,457	19,797	45,017	74,190
United States (e) ..	321,709	362,514	369,447	289,251	248,161	294,182	295,768
Argentina .. ..	2,291	1,686	2,632	2,964	(a)	(a)	(a)
Bolivia (d) .. ..	—	—	—	18	—	27	223
China (Occupied) (b)	55,501	71,742	86,603	3,907	(a)	(a)	(a)
Japan .. ..	2,795	2,946	5,040	3,156	283	60	28
Korea .. ..	38,708	68,274	74,039	19,127	(a)	(a)	(a)
Manchuria (g) .. ..	17,825	14,648	25,149	14,858	(a)	(a)	(a)
Turkey .. ..	—	—	—	—	113	—	—

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

(a) Information not available.

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

(c) August to December only.

(d) Exports.

(e) Shipments.

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

(g) Exports to Japan from Manchuria.



EXPORTS OF FLUORSPAR

(Domestic Produce)

(Long tons)

Exporting Country	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom .. ..	50	—	5	21	1,777	1,697	2,131
Union of South Africa ..	1,591	2,489	2,712	1,380	193	52	57
Newfoundland (b) .. ..	(c) 22,585	66,615	42,870	21,750	27,932	34,050	32,102
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.	—	51	—	(a)	(a)	(a)	(a)
France .. .. .	(a)	179	399	—	575	995	578
Germany .. .. .	10,607	13,417	(d) 5,959	(a)	(a)	(a)	(a)
Norway .. .. .	81	39	35	112	426	346	724
Sweden .. .. .	39	—	—	137	1,616	833	635
Tunis .. .. .	—	—	—	—	—	—	10
Mexico .. .. .	5,905	22,527	55,596	49,457	19,797	45,017	74,190
United States .. .. .	8,244	8,361	1,842	1,080	1,656	1,186	663
Bolivia .. .. .	—	—	—	18	—	27	223
China (Occupied) (e) ..	55,501	71,742	86,603	3,907	(a)	(a)	(a)
Korea .. .. .	(e) 31,900	(e) 38,964	(e) 52,292	(c) 15,844	—	(f) 334	—
Manchuria (e) .. .. .	17,825	14,648	25,149	14,858	(a)	(a)	(a)

(a) Information not available.

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

(c) Nine months ended March 31, 1943.

(d) January to July only.

(e) Exports to Japan.

(f) Southern Korea only.

IMPORTS OF FLUORSPAR

(Less Re-exports)

(Long tons)

Importing Country	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
Canada .. .. .	42,664	69,140	33,125	18,314	28,405	21,456	43,683
FOREIGN COUNTRIES							
Austria .. .. .	(a)	(a)	(a)	(a)	(a)	993	1,937
Belgium-Luxemburg E.U.	2,690	2,228	202	(a)	(a)	(a)	(a)
Denmark .. .. .	6	626	654	167	703	620	637
France .. .. .	(a)	229	146	4,570	8,687	10,579	298
Germany .. .. .	15,845	19,876	(b) 19,476	(a)	(a)	(a)	(a)
Netherlands .. .. .	(a)	(a)	(a)	(a)	(a)	(a)	1,785
Norway .. .. .	204	16	298	—	212	460	1,134
Portugal .. .. .	—	70	29	20	17	21	9
Sweden .. .. .	6,238	1,381	113	15	2,703	2,743	5,676
United States .. .. .	1,920	39,079	77,723	93,683	24,254	70,225	99,620
Peru .. .. .	163	313	507	405	255	(a)	(a)
Japan .. .. .	105,215	125,354	164,044	34,609	386	—	842

(a) Information not available.

(b) January to July only.

## FULLER'S EARTH

### PRODUCTION OF FULLER'S EARTH

(Long tons)

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
India .. .. .	8,940	10,542	11,075	13,232	9,418	2,831	(b) 5,836
Australia .. .. .	353	269	257	276	609	266	325
New Zealand .. .. .	138	124	106	76	75	31	68
<b>FOREIGN COUNTRIES</b>							
United States (sales) ..	182,361	220,766	263,158	264,614	266,743	293,811	305,429
Japan .. .. .	(a)	(a)	73,000	(a)	(a)	(a)	(a)

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

(a) Information not available.

(b) Incomplete.

### EXPORTS OF FULLER'S EARTH\*

(Long tons)

Exporting Country	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES</b>							
United States (b) .. ..	5,404	6,109	6,660	6,029	15,846	8,500	9,500

\* 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	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
Union of South Africa ..	360	103	49	316	718	(a)	(a)
Canada .. .. .	(£14,598)	(£16,980)	(£16,754)	(£16,740)	(£17,629)	(£21,456)	(£23,343)
Ceylon .. .. .	88	76	6	22	76	41	—
Australia .. .. .	819	154	545	581	657	519	390
<b>FOREIGN COUNTRIES</b>							
Mexico .. .. .	180	221	253	500	820	(a)	(a)
United States—							
Crude .. .. .	41	35	—	—	} 173	{ 41	30
Prepared .. .. .	215	140	275	300			
Chile .. .. .	92	—	1	53	—	(a)	(a)
Peru .. .. .	414	36	63	264	265	(a)	(a)
Venezuela .. .. .	(a)	16	(a)	187	143	140	(a)

(a) Information not available.

# GOLD

## PRODUCTION OF GOLD ORE

(In terms of metal)

(Fine troy ounces)

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
Anglo-Egyptian Sudan ..	5,196	2,127	1,820	1,623	3,670	3,725	3,579
Bechuanaland Protectorate	15,441	12,965	11,572	11,297	9,738	7,382	1,502
Gold Coast .. .. .	778,925	567,282	523,225	539,252	585,910	558,011	672,388
Kenya .. .. .	56,771	45,117	42,259	38,517	29,892	21,959	23,429
Nigeria .. .. .	38,497	15,323	7,916	8,108	4,881	2,203	2,899
Northern Rhodesia ..	1,134	703	307	265	6,838	779	1,180
Southern Rhodesia ..	760,030	656,684	592,729	568,242	544,596	522,735	514,440
Sierra Leone .. .. .	11,444	2,748	1,014	274	183	2,400	2,193
South West Africa ..	214	175	98	84	(a)	37	469
Swaziland .. .. .	1,061	2,604	2,189	3,583	4,914	5,637	3,110
Tanganyika Territory ..	(b) 106,835	(b) 72,723	57,103	51,302	49,952	(b) 47,356	(b) 57,557
Uganda (exports) ..	9,468	3,820	2,593	2,293	2,176	1,366	1,158
Union of South Africa	14,126,852	12,804,379	12,279,629	12,224,629	11,927,165	11,200,281	11,584,849
Canada .. .. .	4,841,306	3,651,301	2,922,911	2,696,727	2,832,554	3,070,221	3,529,608
Newfoundland .. .. .	15,726	18,735	18,329	15,354	15,751	13,583	12,252
British Guiana .. .. .	26,867	17,873	17,429	20,685	22,712	24,225	18,955
Burma .. .. .	(c) 30	(c) 30	(c) 30	(c) 30	2	67	(a)
Cyprus .. .. .	10,002	5,480	958	—	—	—	—
India .. .. .	260,302	255,228	188,206	168,366	131,775	171,705	180,045
Malaya .. .. .	1,024	2,213	1,212	287	445	5,312	10,212
Sarawak .. .. .	1,931	783	—	—	17	389	599
Australia .. .. .	1,153,787	751,258	656,867	657,213	824,480	937,654	890,802
Fiji .. .. .	99,973	61,505	40,407	94,964	82,401	94,353	93,059
New Guinea .. .. .	—	—	—	—	661	59,202	86,556
New Zealand .. .. .	165,986	149,150	142,287	128,364	119,271	112,260	93,903
Papua .. .. .	(a)	(a)	(a)	(a)	(a)	(a)	202
<b>TOTAL .. .. .</b>	<b>22,500,000</b>	<b>19,100,000</b>	<b>17,500,000</b>	<b>17,231,000</b>	<b>17,199,000</b>	<b>16,863,000</b>	<b>17,785,000</b>
<b>FOREIGN COUNTRIES</b>							
Bulgaria (estimated) ..	2,500	(a)	(a)	(a)	(a)	(a)	(a)
Finland .. .. .	2,218	7,137	5,048	3,022	7,330	10,642	11,317
France .. .. .	44,336	34,112	21,959	39,738	48,355	42,407	47,165
Hungary .. .. .	61,350	61,350	28,215	(a)	(a)	(a)	(a)
Italy .. .. .	14,757	12,892	6,848	1,865	9,259	12,716	19,978
Portugal .. .. .	(a)	(a)	(a)	(a)	6,687	15,754	11,799
Roumania .. .. .	84,000	83,000	71,000	(a)	(a)	71,728	(a)
Sweden .. .. .	175,029	156,606	112,560	85,585	91,372	75,586	71,889
Angola .. .. .	6,112	1,953	1,198	819	551	360	434
Belgian Congo .. .. .	516,846	498,304	399,730	346,971	331,313	301,445	299,774
Cameroon (French) ..	23,084	21,798	20,416	16,300	11,928	11,501	10,706
Egypt .. .. .	1,768	890	1,036	3,014	2,793	2,090	3,853
Eritrea .. .. .	5	80	170	2,119	3,411	3,540	2,242

(a) Information not available.

(b) Exports.

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

## PRODUCTION OF GOLD ORE (Cont.)

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
Ethiopia (b) .. ..	—	—	63,720	50,000	46,000	(a)	(a)
French Equatorial Africa ..	94,234	93,462	84,106	76,069	71,535	70,185	63,723
French West Africa .. ..	7,207	7,973	8,777	6,945	7,009	5,562	20,512
Liberia (c) .. ..	22,469	30,823	34,720	9,016	16,506	16,998	13,797
Madagascar .. ..	8,874	9,182	9,388	6,430	3,890	1,521	2,096
Morocco (French) .. ..	27,000	2,475	2,570	160	—	—	—
Mozambique .. ..	6,527	6,462	7,556	7,909	5,765	5,401	4,734
Costa Rica (b) .. ..	29,803	16,332	6,977	4,456	1,739	(a)	(a)
Cuba .. ..	195	51	39	423	1,105	364	334
Dominican Republic .. ..	6,709	816	683	486	646	—	—
Guatemala .. ..	729	409	129	60	32	(a)	(a)
Haiti .. ..	432	310	161	(e) 73	41	—	—
Honduras .. ..	25,779	22,844	23,026	19,158	12,094	11,929	14,265
Mexico .. ..	801,357	631,537	508,882	499,301	420,500	464,739	367,612
Nicaragua .. ..	(c) 248,176	(c) 223,641	(c) 223,910	206,360	210,026	(c) 213,454	(c) 222,627
Panama .. ..	98	—	—	—	—	—	1,000
Salvador .. ..	30,374	29,007	21,945	11,397	21,809	10,755	20,778
United States .. ..	3,457,110	1,363,815	998,394	954,572	1,574,505	2,109,185	2,014,257
Argentina .. ..	20,994	16,315	5,369	3,381	8,038	(a)	(a)
Bolivia (d) .. ..	20,194	8,374	6,265	5,857	16,701	20,108	2,642
Brazil .. ..	157,078	160,320	166,378	163,107	140,482	135,548	130,243
Chile .. ..	187,001	173,751	203,749	180,352	230,523	168,855	164,252
Colombia .. ..	596,618	565,501	553,530	506,695	437,176	383,027	335,260
Dutch Guiana .. ..	7,877	5,897	5,691	5,884	4,630	4,125	4,177
Ecuador .. ..	88,871	90,871	84,234	66,975	73,512	57,250	79,207
French Guiana .. ..	27,200	20,608	18,583	20,541	19,741	14,930	(c) 10,610
Peru .. ..	257,612	199,637	175,180	172,663	158,379	116,017	111,162
Uruguay .. ..	(b) 1,022	(b) 1,000	(b) 1,000	(b) 1,000	(a)	(a)	(a)
Venezuela .. ..	115,987	82,634	77,716	76,837	48,558	21,830	49,737
Formosa .. ..	23,792	51,827	23,084	592	(a)	7,750	13,115
French Indo-China .. ..	354	100	13	—	—	—	—
Japan .. ..	661,855	230,071	168,438	26,749	37,423	59,800	70,227
Korea .. ..	763,741	535,053	656,678	96,452	193,000	329,000	(f) 2,098
Philippine Republic (g) ..	(a)	(a)	(a)	(a)	360	64,441	209,225
Saudi Arabia .. ..	32,489	44,330	4,569	36,215	49,773	54,046	73,976
* TOTAL .. ..	10,000,000	7,000,000	6,000,000	3,600,000	4,100,000	4,900,000	4,500,000
* WORLD'S TOTAL (excl. U.S.S.R.) .. ..	32,500,000	26,100,000	23,500,000	20,800,000	21,300,000	21,800,000	22,300,000

\* In view of the wide divergences in estimates of the production of gold in the U.S.S.R. (ranging from 2-18 million ounces) figures for that country have been omitted and the totals for Foreign countries and the World revised accordingly.

(a) Information not available.

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

(c) Exports.

(d) Estimated.

(e) Imports into the United States.

(f) Southern Korea only.

(g) United States Bureau of Mines.

EXPORTS OF GOLD

(Including re-exports)

(In terms of metal)

(Fine troy ounces)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Bullion—							
Unrefined .. ..	—	—	—	—	—	2,000	(a)
Refined .. ..	50,000	2,333,000	6,225,000	566,000	1,164,000	14,870,000	(a)
Coin .. ..	73,000	3,000	106,000	2,000	94,000	142,000	(a)
Anglo-Egyptian Sudan—							
Bullion .. ..	7,900	2,800	1,800	1,600	3,500	1,230	(a)
Gold Coast—							
Bullion .. ..	786,100	630,400	533,900	475,000	646,600	568,471	670,645
Kenya and Uganda—							
Bullion .. ..	94,100	61,000	56,000	41,300	34,700	31,700	40,100
Nigeria—							
Bullion .. ..	42,000	19,800	10,700	8,000	2,000	700	41
Northern Rhodesia—							
Bullion .. ..	(a)	980	420	250	200	248	190
Sierra Leone—							
Bullion .. ..	10,400	2,800	1,200	300	200	680	3,996
Southern Rhodesia—							
Concentrates, etc. ..	2,800	2,200	2,400	2,700	4,600	5,100	6,400
Bullion .. ..	772,000	655,000	590,000	566,000	553,000	527,000	517,000
Coin .. ..	3,700	9	8	1	—	—	—
South West Africa—							
Bullion .. ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Tanganyika Territory—							
Concentrates .. ..	(a)	(a)	130	—	60	40	(a)
Bullion .. ..	107,000	73,000	55,000	51,000	48,000	47,000	62,339
Union of South Africa—							
Ore and concentrates ..	21,200	6,800	6,300	4,700	3,600	(a)	(a)
Bullion .. ..	} (a)	(a)	(a)	(a)	(a)	(a)	(a)
Coin .. ..							
Zanzibar—							
Bullion .. ..	—	—	—	—	—	1,000	(a)
Canada—							
Ore, etc. .. ..	} (a)	(a)	(a)	(a)	(a)	(a)	(a)
Bullion .. ..							
Coin .. ..							
British West Indies—							
Trinidad and Tobago—							
Bullion .. ..	—	—	—	20	—	114	—
British Guiana—							
Bullion .. ..	14,800	9,200	6,000	7,700	8,300	13,400	(a)
Aden—							
Bullion and coin ..	—	300	100	—	(a)	(a)	(a)
India (b)—							
Bullion .. ..	1,000	17,000	33,000	(c) 2,400	(c) 321	(c) 3,839	—
Coin .. ..	36,000	8,000	1,200	(c) 5,200	(c) 63,867	(c) 49,825	—
Malaya—							
Bullion .. ..	(a)	(a)	(a)	(a)	1,400	—	8,882
Coin .. ..	(a)	(a)	(a)	(a)	—	—	19
Cyprus							
Ore and concentrates ..	7,600	4,200	1,300	—	—	—	—
Hong Kong—							
Bullion .. ..	(a)	(a)	(a)	(a)	171,000	292,000	69
Coin .. ..	(a)	(a)	(a)	(a)	—	108,000	4
Palestine—							
Bullion and coin ..	3,300	160	300	—	—	(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	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES (Cont.)							
Sarawak—							
Bullion .. .. .	(a)	(a)	(a)	(a)	—	—	887
Australia—							
Ores, etc. . . . .	82,300	3,100	3,500	6,700	4,000	7,800	—
Bullion .. .. .	3,500	—	—	317,000	2,198,000	356,000	232
Coin .. .. .	—	—	—	—	—	3	—
Fiji—							
Bullion .. .. .	87,200	57,500	44,700	72,700	68,900	134,922	105,712
New Zealand—							
Concentrates, sweepings, etc. . . . .	2,700	300	500	600	800	1,000	1,500
Bullion .. .. .	162,000	147,000	135,000	118,000	110,000	96,000	54,300
Irish Republic—							
Bullion .. .. .	1,250	1,500	140	4	134	208	4,286
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Bullion .. .. .	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Denmark—							
Beaten, rolled or drawn ..	130	220	100	—	600	300	300
France—							
Bullion and scrap ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Coin .. .. .	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Beaten, rolled or drawn	150	1,500	—	600	1,400	14,500	13,000
Italy—							
Bullion and scrap ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Beaten, rolled or drawn	6,366	1,575	—	—	11,156	12,217	(a)
Netherlands—							
Bullion .. .. .	} (a)	(a)	(a)	(a)	(a)	(a)	(a)
Coin .. .. .							
Norway—							
Coin .. .. .	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Sweden—							
Bullion .. .. .	33,000	10,000	8,500	19,000	390,000	806,000	19,000
Coin .. .. .	200	—	—	—	—	500	—
Sweepings, etc. . . . .	4,000	6,000	600	6,000	4,000	8,000	7,000
Switzerland—							
Bullion .. .. .	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Belgian Congo—							
Bullion .. .. .	480,000	420,000	320,000	300,000	330,000	330,000	320,000
Cameroon (French)—							
Bullion .. .. .	33,000	20,000	19,000	(a)	(a)	(a)	(a)
Egypt—							
Bullion .. .. .	—	—	—	—	—	18,000	(a)
Coin .. .. .	—	—	1,000	—	—	—	(a)
French Equatorial Africa—							
Bullion .. .. .	125,900	89,500	124,100	(a)	(a)	48,000	134,900
French West Africa—							
Bullion .. .. .	32,000	21,000	20,000	100	50,000	2,000	1,000
Liberia—							
Bullion .. .. .	22,469	30,823	34,720	9,016	16,506	16,998	13,797
Madagascar—							
Bullion .. .. .	—	—	—	—	8,000	1,000	10

(a) Information not available.

## EXPORTS OF GOLD (Cont.)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Mozambique—							
Bullion .. .. .	200	100	20	30	25,000	—	150,000
Costa Rica—							
Bullion .. .. .	12,000	6,000	3,000	3,000	1,000	2,000	800
Cuba—							
Ore, bullion and scrap ..	200	—	9,000	15,000	(a)	(a)	(a)
Dominican Republic—							
Bullion and scrap ..	7,000	800	700	500	700	(a)	(a)
Guatemala—							
Bullion, etc. .. .. .	700	400	100	70	30	30	(a)
Honduras (years ended June 30)—							
Bullion, etc. .. .. .	27,300	20,200	23,000	(a)	(a)	(a)	(a)
Mexico—							
Bullion .. .. .	908,000	176,000	117,000	116,000	66,000	(a)	(a)
Nicaragua—							
Concentrates .. .. .	241,000	221,000	218,000	203,000	204,000	220,000	(a)
Precipitates .. .. .	7,000	2,000	6,000	(a)	(a)	(a)	(a)
Salvador—							
Bullion, etc. .. .. .	31,000	28,000	23,000	(a)	19,000	(a)	(a)
United States—							
Ore and base bullion ..	600	60	—	—	200	} 6,000,000	(a)
Refined bullion .. .. .	2,000	689,000	27,400,000	5,661,385	6,000,000		
Coin .. .. .	—	250,000	5,000	49,482	4,000		
Argentina—							
Bullion and coin ..	—	1,300	550	(a)	(a)	(a)	(a)
Bolivia—							
Ore .. .. .	5,905	4,304	4,561	3,180	2,918	7,955	4,051
Chile—							
Ore .. .. .	7,000	9,000	(a)	(a)	(a)	(a)	(a)
Bullion .. .. .	40,000	57,000	5,000	—	157,000	—	—
Coin .. .. .	—	—	85,000	155,000	211,000	(a)	(a)
Colombia—							
Bullion .. .. .	342,000	3,000	3,000	—	9,143	(a)	(a)
Dutch Guiana—							
Bullion .. .. .	7,900	5,800	5,700	(a)	(a)	(a)	(a)
French Guiana—							
Bullion .. .. .	25,000	13,000	19,000	(a)	(a)	(a)	(a)
Peru—							
Ores, concentrates, etc. . .	11,000	10,000	15,000	(a)	7,000	10,000	(a)
Bullion, etc. .. .. .	251,000	162,000	110,000	(a)	120,000	190,000	(a)
Venezuela—							
Bullion .. .. .	120,000	73,000	63,000	59,000	18,000	3,000	(a)
Iraq—							
Bullion, etc. .. .. .	} (a)	(a)	(a)	(a)	(a)	(a)	(a)
Coin .. .. .							

(a) Information not available.

TOTAL IMPORTS OF GOLD

(In terms of metal)

(Fine troy ounces)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom—							
Ore, etc. . . . .	4,000	1,000	1,000	9,700	20,100	25,200	(a)
Bullion—							
Unrefined . . . . .	849,000	607,000	584,000	483,000	655,000	697,000	(a)
Refined . . . . .	5,852,000	4,522,000	20,884,000	2,327,000	13,453,000	18,402,000	(a)
Coin . . . . .	183,000	—	603,800	350	172,000	172,000	(a)
Malta—							
Bullion . . . . .	} (a)	(a)	(a)	670	3,900	1,305	159
Coin . . . . .							
Anglo-Egyptian Sudan—							
Bullion . . . . .	—	—	2	250	—	323	—
Coin . . . . .	—	—	5,500	—	—	(a)	(a)
Kenya and Uganda—							
Bullion . . . . .	14,300	8,000	5,400	4,600	2,200	21,800	15,300
Southern Rhodesia—							
Concentrates . . . . .	—	—	100	3,100	9,400	9,600	9,100
Coin . . . . .	250	—	—	—	—	50	—
Tanganyika Territory—							
Bullion . . . . .	70	—	50	190	—	—	12
Zanzibar—							
Bullion . . . . .	—	—	—	—	—	2,700	(a)
Canada—							
Bullion, etc. . . . .	(a)	(a)	(a)	(c) 170	(c) 5,900	(c) 670	(c) 773
British West Indies—							
Jamaica—							
Bullion . . . . .	10	50	200	130	130	20	(a)
Coin . . . . .	20	—	—	—	—	—	—
Trinidad and Tobago—							
Bullion . . . . .	(a)	(a)	(a)	—	—	3,377	496
British Guiana—							
Bullion . . . . .	50	30	40	70	30	70	—
Aden—							
Coin . . . . .	—	400	130	120	20	—	—
Ceylon—							
Bullion . . . . .	—	—	—	—	—	38,100	95
Cyprus—							
Bullion . . . . .	—	—	3	100	640	2,300	1,200
Hong Kong—							
Bullion . . . . .	(a)	(a)	(a)	(a)	42,000	209,000	—
Coin . . . . .	(a)	(a)	(a)	(a)	105,000	146,000	—
India (b)—							
Bullion . . . . .	1,200	200	111,500	(d) 10,210	(d) 65,942	(d) 537,590	4,328
Coin . . . . .	41,000	—	—	—	(d) 658	(d) 107,099	2
Malaya—							
Bullion . . . . .	(a)	(a)	(a)	(a)	—	—	1,224
Palestine—							
Bullion and coin . . . . .	130	10	3,400	21,400	87,300	(a)	(a)
Australia—							
Bullion, etc. . . . .	222,500	145,600	130,100	115,000	80,000	135,846	136,133
Coin . . . . .	—	—	—	—	25	—	(a)
New Zealand—							
Bullion, etc. . . . .	300	200	500	600	600	500	700
Irish Republic—							
Bullion . . . . .	—	—	20	—	—	—	3,454

- (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	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Bullion .. .. .	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Bulgaria—							
Bullion, etc. .. ..	62,000	2,200	2,300	(a)	(a)	(a)	(a)
Denmark—							
Beaten, rolled or drawn	6,400	5,400	4,000	2,200	32,000	14,000	9,000
Finland—							
Bullion .. .. .	—	900	1,100	4,000	300	—	100
Sheet and wire .. ..	—	22	10	—	200	100	200
France—							
Bullion and scrap ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Coin .. .. .	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Beaten, rolled or drawn	600	350	100	250	800	7,500	12,000
Italy—							
Bullion and scrap ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Beaten, rolled or drawn	26,800	4,950	—	—	8,166	6,430	(a)
Netherlands—							
Bullion .. .. .	} (a)	(a)	(a)	(a)	(a)	(a)	(a)
Coin .. .. .							
Norway—							
Bullion .. .. .	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Sheets and rolled ..	20	100	140	500	550	2,200	300
Sweden—							
Bullion .. .. .	800	35,000	4,000	2,000	10,000	426,000	8,000
Coin .. .. .	—	—	52,000	70	700	180	20
Sweepings, etc. .. ..	700	400	300	500	400	500	500
Switzerland—							
Bullion .. .. .	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Algeria—							
Bullion and coin ..	—	—	—	30	—	2,600	(a)
Egypt—							
Bullion .. .. .	5,200	1,200	1,400	22,000	26,000	119,000	358,000
Coin .. .. .	12,000	5,000	18,000	17,000	66,000	28,000	308,000
Mozambique—							
Bullion .. .. .	18,700	3,000	—	—	57,000	93,000	110,000
Mexico—							
Bullion and coin ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
United States—							
Ore and base bullion ..	1,400,000	1,200,000	1,100,000	970,000	1,100,000	} 61,000,000	(a)
Refined bullion .. ..	7,700,000	1,700,000	1,800,000	1,700,000	10,000,000		
Coin .. .. .	10,000	1,700	390,000	1,200	4,400,000		
Argentina—							
Bullion and coin ..	70,000	220,000	1,700,000	(a)	(a)	(a)	(a)
Brazil—							
Bullion .. .. .	23,000	13,000	13,000	6,300	600	100	(a)
Venezuela—							
Bullion .. .. .	—	550	(a)	(a)	7,000	(a)	(a)
Iran (b)—							
Bullion .. .. .	—	240,000	(a)	(a)	(a)	(a)	(a)
Coin .. .. .	300	2,000	(a)	(a)	(a)	(a)	(a)
Iraq—							
Bullion and coin ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Syria and Lebanon—							
Coin .. .. .	90	—	1,000	2,000	500,000	(a)	(a)
Turkey—							
Bullion and scrap ..	(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	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
Kenya .. .. .	—	—	10	3	—	—	—
Southern Rhodesia .. .. .	—	—	5	6	—	—	—
South West Africa (crude)	(a)	1,136	1,607	1,297	1,174	1,613	1,601
Union of South Africa .. .. .	(b) 1,044	(b) 633	(b) 502	192	273	(b) 218	170
Canada (sales) .. .. .	1,064	1,699	1,413	1,705	1,763	2,141	2,267
Ceylon (exports) .. .. .	27,432	20,051	12,264	7,820	8,082	9,005	13,970
India .. .. .	1,055	1,169	927	1,295	1,627	1,235	1,649
Malaya .. .. .	(c) 160	(c) 160	(c) 160	(c) 160	—	—	—
Australia .. .. .	367	571	440	112	347	303	231
FOREIGN COUNTRIES							
Austria (crude) .. .. .	(d)	(a)	22,132	(a)	248	4,370	11,232
Czechoslovakia .. .. .	(d)	(a)	(a)	(a)	(a)	(a)	(a)
Germany (crude) .. .. .	69,331	(a)	(a)	(a)	(a)	(a)	(a)
Italy .. .. .	5,396	6,209	2,960	2,240	2,552	4,085	6,637
Norway .. .. .	2,884	3,128	3,724	1,097	651	2,442	1,066
Spain .. .. .	300	100	1,100	2,360	500	304	262
Sweden .. .. .	60	63	—	213	—	—	—
Egypt .. .. .	—	—	256	150	—	—	49
Madagascar—							
Flake .. .. .	7,622	9,665	11,030	7,481	4,356	3,853	} 7,563
Powder .. .. .	1,788	3,080	3,219	1,558	1,858	1,235	
Morocco (French) .. .. .	1,050	260	210	258	630	433	279
Morocco (Spanish) .. .. .	247	78	41	—	—	—	—
Mozambique .. .. .	162	420	—	—	197	124	89
Mexico .. .. .	20,482	20,350	12,772	23,261	21,782	27,542	34,704
United States .. .. .	6,357	8,874	4,829	4,364	4,978	3,917	8,883
Argentina .. .. .	240	233	448	328	(a)	(a)	(a)
Brazil .. .. .	103	330	519	471	650	6,900	7,996
Uruguay (ore) .. .. .	—	—	—	—	—	49	—
French Indo-China .. .. .	14	25	30	—	—	—	—
Japan (e) .. .. .	1,843	3,798	4,782	2,567	8,083	10,025	12,589
Korea—							
Flake .. .. .	19,065	18,017	27,978	(f) 5,171	(f) 200	(f) 528	(f) 391
Other .. .. .	75,472	76,931	73,697	(f) 26,724	(f) —	(f) 2,559	(f) 14,650

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

(a) Information not available.

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

Year	Long tons
1942 .. .. .	393
1943 .. .. .	198
1944 .. .. .	183
1947 .. .. .	31

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

(d) Included with Germany.

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

(f) Southern Korea only.

EXPORTS OF GRAPHITE

(Domestic Produce)

(Long tons)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Crucibles .. .. .	2,632	1,734	1,969	1,872	3,229	2,795	3,416
South West Africa .. .. .	(b) 137	378	657	1,146	873	1,362	970
Canada .. .. .	456	219	246	1,020	1,329	1,620	1,798
Ceylon .. .. .	27,432	20,051	12,264	7,820	8,082	9,005	13,970
Hong Kong (re-exports) .. .. .	(a)	(a)	(a)	(a)	10	92	565
Australia .. .. .	64	56	124	33	90	46	82
FOREIGN COUNTRIES							
Austria .. .. .	(a)	(a)	(a)	(a)	(a)	4,188	7,204
Belgium-Luxemburg E.U.—							
Crude and ground .. .. .	38	13	20	(a)	(a)	(a)	904
Crucibles .. .. .	107	87	23	(a)	(a)	(a)	(a)
Czechoslovakia .. .. .	(a)	(a)	(a)	(a)	874	1,647	(c) 1,086
Denmark (d) .. .. .	94	—	1	—	2	—	—
France .. .. .	24	—	1	141	1,032	495	709
Germany .. .. .	10,446	9,743	(e) 4,122	(a)	(a)	(a)	(a)
Italy .. .. .	349	(a)	(a)	(a)	(a)	1,669	1,953
Norway .. .. .	3,069	2,870	2,985	1,264	1,441	2,049	936
Sweden .. .. .	7	30	—	28	305	16	12
Madagascar .. .. .	6,567	11,195	13,936	6,349	8,735	8,579	8,305
Morocco (French) .. .. .	617	215	136	301	560	380	(a)
Mozambique .. .. .	88	—	96	168	189	203	40
Mexico .. .. .	20,486	20,350	12,776	23,261	21,603	31,988	34,481
United States .. .. .	3,656	2,687	1,991	1,168	1,266	1,360	935
Brazil .. .. .	71	19	196	129	91	127	(a)
Japan .. .. .	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Korea—							
Flake .. .. .	} (a)	(a)	(a)	(a)	(a)	{ (f) 2,276	(a)
Other .. .. .							

(a) Information not available.

(b) October to December only.

(c) January to October only.

(d) Including artificial graphite.

(e) January to July only.

(f) Imports into Japan from Korea.

## IMPORTS OF GRAPHITE

(Less Re-exports)

(Long tons)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom—							
Natural (b) .. .. .	12,118	29,423	20,113	6,874	2,807	7,316	10,215
Crucibles .. .. .	—	—	—	—	1	3	1
Mauritius—							
Crucibles .. .. .	(£925)	(£628)	(£426)	(£905)	(£726)	(£471)	(£158)
Southern Rhodesia .. .. .	50	15	39	1	33	34	18
Union of South Africa .. .. .	251	287	526	818	312	(a)	(a)
Canada—							
Unground .. .. .	(£8,845)	(£5,342)	(£10,808)	(£15,027)	(£23,313)	(£17,208)	(£20,323)
Ground, including manu- factures .. .. .	(£61,416)	(£64,401)	(£58,698)	(£62,302)	(£85,089)	(£95,746)	(£82,799)
Crucibles .. .. .	(£76,576)	(£42,988)	(£28,930)	(£25,900)	(£33,503)	(£33,721)	(£29,032)
Newfoundland (c) .. .. .	(d) (£80)	1	2	3	1	3	1
Cyprus .. .. .	—	—	—	—	—	3	6
Hong Kong (total imports)	(a)	(a)	(a)	(a)	301	283	1,454
India—							
Graphite .. .. .	183	743	96	519	488	902	733
Crucibles .. .. .	221	229	441	333	223	351	368
Palestine—							
Crucibles .. .. .	22	16	13	24	35	(a)	(a)
Australia .. .. .	754	1,310	447	969	840	593	1,162
New Zealand £ (N.Z.)	(£2,901)	(£4,373)	(£4,160)	(£3,275)	(£2,861)	(£2,813)	(a)
Irish Republic .. .. .	54	76	79	38	45	33	42
<b>FOREIGN COUNTRIES</b>							
Belgium-Luxemburg E.U.—							
Crude and ground .. .. .	888	655	184	(a)	(a)	(a)	1,697
Crucibles .. .. .	98	81	24	(a)	(a)	(a)	(a)
Bulgaria .. .. .	240	164	68	60	47	(a)	(a)
Czechoslovakia—							
Graphite .. .. .	(a)	(a)	(a)	(a)	35	260	(e) 399
Crucibles, etc. .. .. .	(a)	(a)	(a)	(a)	18	55	(a)
Denmark—							
Graphite (b) .. .. .	445	517	374	167	655	602	728
Crucibles .. .. .	51	56	67	27	136	88	102
Finland (total imports) .. .. .	231	227	225	75	248	296	131
France .. .. .	1,445	596	204	1,974	524	4,536	4,154
Germany .. .. .	2,661	2,880	(f) 1,707	(a)	(a)	(a)	(a)
Italy .. .. .	3,022	(a)	(a)	(a)	(a)	3,052	1,907
Norway—							
Graphite .. .. .	130	72	103	18	29	45	88
Crucibles, etc. .. .. .	31	19	35	6	69	66	91
Portugal .. .. .	30	85	37	14	56	69	50
Sweden .. .. .	728	672	684	640	558	505	428
Algeria .. .. .	40	119	12	65	48	48	91
Egypt .. .. .	19	13	8	197	(g) 61	(g) 49	(g) 172
Tunis—							
Graphite .. .. .	—	—	8	15	1	5	9
Crucibles .. .. .	23	—	15	31	13	12	50
Mexico .. .. .	55	73	78	72	109	(a)	(a)

(a) Information not available.

(b) Including artificial graphite.

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

(d) Nine months ended March 31, 1943.

(e) January to October only.

(f) January to July only.

(g) Total imports.

IMPORTS OF GRAPHITE (Cont.)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
United States (b) .. ..	39,069	25,589	23,262	32,262	29,589	38,957	46,546
Argentina .. .. .	229	156	276	337	239	(a)	(a)
Brazil—							
Graphite .. .. .	42	35	116	51	41	112	(a)
Crucibles .. .. .	132	105	158	367	182	237	(a)
Chile .. .. .	214	210	262	100	89	(a)	(a)
Colombia .. .. .	—	17	(a)	(a)	13	(a)	(a)
Peru .. .. .	24	17	30	19	18	(a)	(a)
Japan .. .. .	(a)	(a)	(a)	(a)	5,267	15,307	28,760
Turkey—							
Graphite .. .. .	(a)	(a)	16	75	257	33	37
Crucibles, etc. .. ..	(a)	(a)	57	227	251	29	59

(a) Information not available.

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

Year	Long tons
1942 .. .. .	150
1943 .. .. .	183
1944 .. .. .	117
1945 .. .. .	137
1946 .. .. .	4
1947 .. .. .	25
1948 .. .. .	104

# GYPSUM

## PRODUCTION OF GYPSUM

(Long tons)

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
Great Britain (b) .. ..	1,212,158	1,367,958	1,323,247	1,326,596	1,687,968	1,745,714	(a)
Northern Ireland .. ..	—	547	—	70	—	—	—
Anglo-Egyptian Sudan .. ..	1,533	3,583	—	2,073	3,015	—	3,045
Kenya .. ..	—	—	250	156	500	559	1,000
Union of South Africa (c)	50,021	46,856	56,519	65,042	65,182	78,900	82,610
Canada (b) .. ..	711,720	384,663	478,889	741,717	1,809,862	2,325,067	3,114,254
Ceylon .. ..	44	17	—	58	32	68	167
Cyprus (e) .. ..	300	150	3,400	2,600	15,000	8,000	20,000
India .. ..	} 63,369	82,267	83,706	90,772	76,417	50,569	(h) 105,346
Pakistan .. ..							
Palestine .. ..							
Australia .. ..							
	7,990	5,895	7,311	7,423	14,283	(a) 6,800	(a) 1,000
	87,355	85,206	78,946	107,173	165,482	214,204	276,416
Irish Republic .. ..	(a)	21,114	21,056	23,030	37,295	35,840	61,703
<b>FOREIGN COUNTRIES</b>							
Austria .. ..	(a)	(a)	(a)	(a)	23,633	14,858	25,959
Bulgaria (e) .. ..	5,000	5,000	5,000	5,000	5,000	5,000	5,000
France .. ..	826,760	710,800	690,600	712,565	1,718,794	2,194,524	(a)
Greece .. ..	—	—	—	5,069	—	837	(a)
Italy (including alabaster)	339,004	232,706	120,445	159,555	(a)	(a)	(a)
Poland .. ..	(a)	(a)	(a)	(a)	9,632	14,681	13,959
Portugal .. ..	17,677	27,261	28,674	11,502	27,243	33,333	42,165
Roumania .. ..	33,119	43,348	(a)	(a)	(a)	(a)	(a)
Spain .. ..	431,370	444,911	483,307	561,300	641,400	741,486	783,845
Sweden .. ..	748	728	170	284	—	—	—
Algeria .. ..	23,346	17,637	(a)	21,900	28,148	37,739	(a)
Angola (f) .. ..	360	7	7	(a)	(a)	(a)	(a)
Egypt .. ..	57,602	44,501	51,484	46,770	77,079	71,194	93,739
Morocco (French) .. ..	(a)	(a)	(a)	8,600	14,896	17,012	(c) 13,000
Morocco (Spanish) .. ..	(a)	3,250	—	3,000	4,000	3,000	4,000
Tunis .. ..	6,200	3,080	7,360	7,510	8,842	17,371	18,800
Cuba .. ..	4,235	2,875	8,866	(a)	(a)	(a)	(a)
Dominican Republic .. ..	—	(f) 902	(f) 2,112	(f) 3,206	(f) 11,404	13,252	7,181
United States .. ..	4,194,257	3,462,090	3,358,245	3,403,324	5,026,248	5,543,050	6,477,263
Argentina .. ..	87,287	86,080	104,600	90,100	(a)	(a)	(a)
Brazil (c) .. ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Chile .. ..	25,594	32,374	31,716	43,222	75,467	82,604	30,501
Peru .. ..	19,206	20,005	43,004	37,398	42,706	40,677	45,978
Venezuela .. ..	4,000	4,700	(a)	(a)	(a)	(a)	(g) 2,568
French Indo-China .. ..	3,000	710	—	—	—	—	—
Japan .. ..	183,637	154,098	121,877	82,104	47,738	64,840	111,667
New Caledonia .. ..	13,853	16,532	16,400	7,904	6,643	2,662	758

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

(a) Information not available.

(b) Including "Anhydrite."

(c) Sales and shipments.

(d) Sales.

(e) Estimated.

(f) Exports.

(g) Production in Government quarries only.

(h) Incomplete.

EXPORTS OF GYPSUM

(Domestic Produce)

(Long tons)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom—							
Calced .. .. .	3,416	2,579	1,657	1,317	2,086	1,266	7,749
Union of South Africa ..	2,740	3,000	3,025	3,612	3,638	(a)	(a)
Canada—							
Crude .. .. .	437,359	165,366	345,490	498,779	1,329,205	1,729,455	2,336,849
Ground .. .. .	22	—	—	—	—	—	9,637
Calced .. .. .	19	426	396	399	865	1,271	662
Cyprus—							
Crude .. .. .	—	—	2,887	1,780	10,850	5,800	13,992
Calced .. .. .	224	110	458	655	3,642	1,601	4,330
Hong Kong (including re-exports) .. ..	(a)	(a)	(a)	(a)	113	160	333
Palestine—							
Calced .. .. .	(a)	(a)	20	4	1	(a)	(a)
Other .. .. .	(a)	(a)	—	4	—	(a)	(a)
Australia—							
Crude .. .. .	15,873	19,506	17,520	18,155	22,180	27,984	35,164
Calced .. .. .	63	16	1,091	3,936	1,887	3,098	1,169
<b>FOREIGN COUNTRIES</b>							
Austria—							
Crude and ground ..	(a)	(a)	(a)	(a)	(a)	18,759	27,978
Calced .. .. .	(a)	(a)	(a)	(a)	(a)	679	271
Belgium-Luxemburg E.U.—							
Crude .. .. .	167	41	—	6,043	(a)	(a)	1,630
Ground and calced ..	3,396	4,387	1,881	(a)	(a)	(a)	5,663
Denmark—							
Crude and calced ..	3	3	—	—	—	21	36
France—							
Crude and calced ..	143,882	110,419	61,650	82,311	310,702	465,897	365,847
Germany—							
Gypsum and phosphatic gypsum .. .. .	62,173	56,295	(b) 21,273	(a)	(a)	(a)	(a)
Netherlands .. .. .	—	—	(a)	(a)	29	186	255
Portugal—							
Crude .. .. .	26	25	38	76	110	99	40
Sweden—							
Calced .. .. .	1	—	1	162	348	20	27
Switzerland—							
Ground and calced ..	60	109	298	126	2,001	2,638	795
Algeria .. .. .	64	155	21	98	613	127	588
Angola—							
Crude .. .. .	360	7	7	40	—	1,390	(a)
Egypt—							
Crude and ground ..	—	—	11	107	(a)	—	2,099
Calced .. .. .	53	84	99	47	(a)	—	—
Morocco (French) .. ..	26	—	531	1,471	—	—	(a)
Morocco (Spanish) .. ..	(a)	(a)	583	793	985	829	(a)
Tunis (including re-exports)—							
Calced .. .. .	—	49	98	75	1	39	21

(a) Information not available.

(b) January to July only.

EXPORTS OF GYPSUM (Cont.)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Dominican Republic ..	—	902	2,112	3,206	11,404	9,473	6,386
Mexico—							
Calcined .. .. .	1	2	—	6	23,728	(a)	(a)
United States—							
Crude and ground ..	531	4,732	777	953	3,635	8,676	1,254
Calcined .. .. .	1,660	2,175	5,018	8,001	13,888	20,974	8,387
Argentina .. .. .	5,861	5,598	3,638	2,515	1,742	(a)	(a)

(a) Information not available.



## IMPORTS OF GYPSUM

(Less Re-exports)

(Long tons)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948	
<b>BRITISH COUNTRIES</b>								
United Kingdom—								
Crude, including alabaster	1,160	3,035	3,535	67,860	67,413	54,787	36,743	
Calcined .. .. .	68	60	240	1,407	2,590	5,018	6,642	
Anglo-Egyptian Sudan ..	—	—	—	—	—	125	173	
Southern Rhodesia—								
Crude and calcined ..	2,463	2,668	2,372	3,163	2,822	3,038	2,763	
South West Africa ..	5	11	4	11	27	(a)	(a)	
Union of South Africa—								
Crude and calcined ..	853	1,070	515	584	715	(a)	(a)	
Canada—								
Crude .. .. .	—	4,464	} 500	793	3,331	7,924	921	
Ground .. .. .	640	437						
Calcined .. .. .	1,253	1,073	1,384	2,575	6,815	8,992	8,887	
Newfoundland (b)—								
Crude and calcined ..	(c) (£193)	(£679)	100	270	360	383	243	
Hong Kong (total imports)	(a)	(a)	(a)	(a)	271	189	2,426	
Palestine—								
Crude and calcined ..	5	104	1	5	93	(a)	(a)	
Australia—								
Crude and calcined ..	481	331	58	69	261	171	931	
New Zealand—								
Crude .. .. .	13,482	13,161	16,738	14,865	24,374	29,206	26,956	
Calcined .. .. .	131	283	1,117	4,073	10,176	6,007	(a)	
Irish Republic—								
Calcined, etc. .. ..	799	1,305	1,351	566	431	380	395	
<b>FOREIGN COUNTRIES</b>								
Belgium-Luxemburg E.U.—								
Crude .. .. .	106,398	94,702	49,663	(a)	(a)	(a)	202,419	
Ground and calcined ..	15,462	9,246	3,608	(a)	(a)	(a)	33,500	
Bulgaria—								
Crude .. .. .	3,684	1,176	514	(a)	(a)	(a)	(a)	
Calcined .. .. .	183	61	37	(a)	(a)	(a)	(a)	
Czechoslovakia—								
Crude and ground ..	(a)	(a)	(a)	(a)	4,076	16,720	(d) 30,291	
Calcined .. .. .	(a)	(a)	(a)	(a)	6,452	14,980	(d) 15,255	
Denmark—								
Crude .. .. .	19,525	22,163	14,046	1,686	20,845	21,690	25,786	
Calcined .. .. .	4,836	4,099	3,322	367	5,232	10,167	11,820	
Finland (total imports)—								
Crude .. .. .	4,137	9,723	4,625	16	5,129	22,728	24,597	
Calcined .. .. .	2,830	3,380	1,252	516	3,758	1,674	4,594	
France—								
Crude and calcined ..	7,350	4,805	1,672	3,032	3,326	5,678	1,052	
Germany—								
Gypsum and phosphatic gypsum .. .. .	10,503	26,445	(e) 17,311	(a)	(a)	(a)	(a)	
Iceland .. .. .	38	122	84	84	31	(a)	(a)	
Netherlands—								
Crude .. .. .	14,914	14,457	} (a)	(a)	{ 14,264	28,342	22,692	
Calcined .. .. .	19,544	8,380				{ 15,368	15,450	21,229
Ground .. .. .	1,449	1,420				{ 47,018	50,779	8,489

(a) Information not available.

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

(c) Nine months ended March 31, 1943.

(d) January to October only.

(e) January to July only.

## IMPORTS OF GYPSUM (Cont.)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
Norway—							
Crude .. .. .	827	649	—	2,041	15,931	15,966	15,567
Ground .. .. .	1,844	2,931	1,297	231	2,834	2,174	2,336
Portugal—							
Crude .. .. .	1,630	2,820	3,100	4,616	8,100	6,205	5,172
Calcined .. .. .	10	4	4	3	9	12	9
Sweden—							
Crude .. .. .	19,421	16,379	18,537	1,613	63,129	59,200	73,741
Calcined .. .. .	5,394	7,230	5,256	1,907	7,207	11,189	10,647
Switzerland—							
Ground and calcined ..	272	259	117	30	27	91	193
Algeria—							
Calcined .. .. .	290	30	80	89	93	149	149
Egypt—							
Crude and ground ..	—	—	—	—	—	21	522
Calcined .. .. .	88	8	96	415	(b) 639	612	902
Morocco (French) .. .. .	159	64	162	119	697	1,207	(a)
Morocco (Spanish) .. .. .	(a)	(a)	115	93	128	85	(a)
Mozambique—							
Crude .. .. .	346	264	644	456	648	976	1,767
Calcined .. .. .	46	142	118	171	32	70	104
Tunis—							
Calcined .. .. .	6	—	—	9	20	21	16
Costa Rica .. .. .	1	33	26	20	28	(a)	26
Cuba (total imports) .. .. .	790	922	2,636	1,982	(a)	(a)	(a)
United States—							
Crude .. .. .	352,196	206,538	305,768	454,252	1,301,562	1,925,937	2,552,865
Ground .. .. .	936	855	336	206	316	426	361
Calcined .. .. .	276	65	67	60	228	116	10
Argentina .. .. .	69	175	13	23	63	(a)	(a)
Brazil—							
Crude .. .. .	40	179	600	227	252	200	(a)
Ground .. .. .	98	69	292	154	161	290	(a)
Chile .. .. .	8	11	27	25	12	(a)	(a)
Colombia—							
Ground .. .. .	37	93	82	256	1,116	(a)	(a)
Peru—							
Crude .. .. .	6	3	29	15	11	(a)	(a)
Calcined .. .. .	15	7	8	10	13	(a)	(a)
Uruguay—							
Ground .. .. .	6,364	6,678	7,971	8,737	8,433	(a)	(a)
Venezuela .. .. .	197	48	(a)	360	107	641	(a)
Japan .. .. .	3,247	362	147	(a)	(a)	(a)	(a)
Syria and Lebanon .. .. .	49	159	353	1,193	269	(a)	(a)

(a) Information not available.

(b) Total imports.

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

Producing Country	ORE										Estimated Iron Content										
	1942	1943	1944	1945	1946	1947	1948	1942	1943	1944	1945	1946	1947	1948	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>																					
United Kingdom (b) ..	19,905,600	18,493,700	15,471,700	14,174,900	12,172,800	11,090,900	13,089,200	5,363,000	5,326,000	4,321,000	4,096,000	3,518,000	2,927,000	3,927,000	4,096,000	5,326,000	4,321,000	4,096,000	3,518,000	2,927,000	3,927,000
Northern Rhodesia (c) ..	388	614	209	75	75	1,504	147	190	300	100	40	80	750	84	300	100	40	80	750	84	300
Sierra Leone ..	(d)623,270	(d)556,515	(d)454,660	(c)685,138	(e)636,194	(e)739,078	(e)858,196	352,000	317,000	280,000	394,000	378,000	434,000	503,000	352,000	280,000	280,000	394,000	378,000	434,000	503,000
Southern Rhodesia ..	(c) 179	(c) 179	756,261	852,515	931,879	1,143,779	1,145,350	423,000	442,000	457,000	532,000	646,000	713,000	688,000	423,000	457,000	457,000	532,000	646,000	713,000	688,000
Union of South Africa ..	706,406	726,474	493,975	1,013,769	1,383,503	1,713,720	1,208,990	270,000	315,000	270,000	270,000	760,000	940,000	660,000	270,000	315,000	270,000	270,000	760,000	940,000	660,000
Canada ..	486,880	572,584	464,371	967,062	1,217,112	1,443,410	1,464,056	620,000	280,000	240,000	503,000	638,000	751,000	777,000	620,000	280,000	240,000	503,000	638,000	751,000	777,000
Newfoundland ..	1,192,870	542,804	464,371	967,062	1,217,112	1,443,410	1,464,056	620,000	280,000	240,000	503,000	638,000	751,000	777,000	620,000	280,000	240,000	503,000	638,000	751,000	777,000
India ..	(a)	(a)	(a)	(a)	(a)	(a)	908	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Hong Kong ..	3,217,430	2,655,173	2,364,000	2,264,184	2,407,682	2,498,459	2,284,587	2,050,000	1,700,000	1,500,000	1,450,000	1,540,000	1,600,000	1,460,000	1,700,000	1,500,000	1,500,000	1,450,000	1,540,000	1,600,000	1,460,000
Malaya ..	90,776	48,361	10,453	13,375	888	888	641	1,400,000	1,450,000	1,350,000	1,010,000	1,210,000	1,420,000	1,224,000	1,450,000	1,350,000	1,010,000	1,210,000	1,420,000	1,420,000	1,224,000
Australia ..	2,128,408	2,193,331	2,038,638	1,529,371	1,818,216	1,845,529	2,042,005	1,400,000	1,450,000	1,350,000	1,010,000	1,210,000	1,420,000	1,224,000	1,450,000	1,350,000	1,010,000	1,210,000	1,420,000	1,420,000	1,224,000
New Zealand (e) ..	2,433	4,988	6,036	6,067	7,406	6,226	4,776	1,100	2,200	2,600	2,500	3,000	2,500	1,900	2,200	2,600	2,500	3,000	2,500	2,500	1,900
TOTAL ..	28,440,000	25,800,000	22,100,000	21,600,000	20,589,000	20,794,000	22,133,000	810,000	819,000	757,000	(a)	155,000	300,000	353,000	810,000	819,000	757,000	(a)	155,000	300,000	353,000
<b>FOREIGN COUNTRIES</b>																					
Austria ..	2,716,900	2,835,000	2,621,325	3,139,900	452,837	870,881	1,178,449	810,000	819,000	757,000	(a)	155,000	300,000	353,000	810,000	819,000	757,000	(a)	155,000	300,000	353,000
Belgium ..	111,500	125,870	48,902	29,300	38,152	57,290	95,192	40,000	45,000	17,000	10,000	13,000	20,000	33,000	40,000	17,000	10,000	13,000	20,000	20,000	33,000
Czechoslovakia ..	2,008,000	1,913,000	1,559,000	272,000	1,098,000	1,346,000	1,404,500	600,000	570,000	470,000	80,000	330,000	404,000	420,000	600,000	570,000	470,000	80,000	330,000	404,000	420,000
France (f) ..	24,601,000	31,430,000	18,603,000	7,590,948	18,422,877	22,664,000	8,000,000	8,000,000	10,000,000	5,800,000	2,312,000	4,942,350	6,003,000	7,480,000	8,000,000	10,000,000	5,800,000	2,312,000	4,942,350	6,003,000	7,480,000
Germany ..	13,068,000	(a)	(a)	(a)	53,843,023	64,371,916	67,160,676	810,000	819,000	757,000	(a)	155,000	300,000	353,000	810,000	819,000	757,000	(a)	155,000	300,000	353,000
Greece ..	325,300	336,600	(a)	47,000	131,000	240,300	(h)270,000	115,000	118,000	(a)	(a)	46,000	84,000	95,000	115,000	118,000	(a)	(a)	46,000	84,000	95,000
Hungary ..	1,097,406	844,696	383,389	132,116	147,407	242,585	557,711	560,000	390,000	(a)	16,000	75,000	120,000	280,000	560,000	390,000	(a)	16,000	75,000	120,000	280,000
Italy ..	5,029,000	5,170,000	2,877,000	1,383,673	2,211,421	1,960,703	3,345,587	1,500,000	1,500,000	850,000	398,000	660,000	595,000	962,000	1,500,000	1,500,000	850,000	398,000	660,000	595,000	962,000
Luxemburg ..	280,003	215,541	260,250	77,298	59,025	125,760	196,151	176,000	137,000	167,000	49,000	35,000	79,000	128,000	176,000	137,000	167,000	49,000	35,000	79,000	128,000
Norway ..	796,000	706,000	670,000	104,000	389,224	496,487	(h)600,000	250,000	230,000	210,000	36,000	130,000	170,000	200,000	250,000	230,000	210,000	36,000	130,000	170,000	200,000
Poland ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)

\* 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:—

1942	9,408 long tons.
1943	2,617 "
1944	8,157 "
1945	(a)

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

(d) Exports.

(e) Shipments of marketable ore only.

(f) Including Alsace-Lorraine.

(g) British, American and French Zones.

(h) Estimated.

PRODUCTION OF IRON ORE (Cont.)

Producing Country	ORE										Estimated Iron Content			
	1942	1943	1944	1945	1946	1947	1948	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>														
Portugal	212,006	240,000	1	7	49	113,000	159	95,000	108,000	(a)	—	(a)	25	80
Roumania	1,580,794	1,562,740	1,484,764	(a)	(a)	1,570,994	(a)	710,000	700,000	670,000	570,000	710,000	45,000	(a)
Spain	9,922,670	10,648,785	7,138,556	3,867,534	6,758,750	8,754,067	13,077,266	5,839,000	6,299,000	4,262,000	2,398,000	4,238,000	5,479,000	720,000
Sweden	299,861	272,584	211,062	17,161	52,454	63,734	85,400	116,000	106,000	85,000	9,000	28,000	31,000	42,000
U.S.S.R. (b)	(a)	(a)	20,000,000	22,000,000	26,000,000	31,000,000	31,000,000	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Yugoslavia	324,000	180,624	771,980	1,183,350	1,644,850	1,533,448	1,841,964	170,000	92,000	406,000	620,000	895,000	830,000	921,000
Algeria	55	12	6,500	6	1	383	383	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Egypt	3,200	10,500	6,500	102	122,327	153,841	296,500	1,600	5,400	4,400	50	57,000	70,000	133,000
Morocco (French)	538,786	538,976	680,000	752,741	774,909	852,356	886,281	320,000	320,000	400,000	430,000	450,000	500,000	550,000
Morocco (Spanish)	—	1,476	—	—	—	—	—	—	—	—	—	—	—	—
Mozambique	24,000	29,230	86,700	130,358	180,800	397,310	679,300	12,000	15,000	44,000	68,000	94,000	200,000	373,000
Cuba	130,749	46,369	27,922	36,755	—	—	—	59,000	21,000	13,000	18,000	—	18,000	(a)
Mexico	157,755	248,450	296,788	278,062	271,095	327,195	332,000	100,907	135,757	184,008	172,389	168,079	222,494	225,459
United States (c)	107,103,227	102,783,672	95,445,792	89,736,084	71,888,812	94,140,051	102,200,425	54,000,000	52,000,000	49,000,000	46,000,000	36,000,000	47,000,000	51,000,000
Argentina	876	148	1,891	698	(a)	(a)	(a)	500	80	1,100	400	(a)	(a)	(a)
Brazil	693,082	779,703	550,000	639,943	573,316	601,351	1,277,050	450,000	510,000	360,000	420,000	370,000	390,000	830,000
Chile	402,768	4,564	18,122	272,531	1,158,462	1,710,111	2,668,125	240,000	2,800	10,900	170,300	276,100	1,067,000	1,655,000
China	76,273	69,000	39,500	31,000	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
French Indo-China	62,000	80,000	23,000	7,800	(a)	(a)	(a)	33,000	43,000	14,000	3,200	(a)	(a)	(a)
Japan (d)	2,389,000	3,085,000	4,069,000	1,398,000	548,792	(e) 488,599	549,896	1,180,000	1,436,000	1,707,000	670,000	270,000	248,000	280,000
Korea	2,242,000	2,322,000	3,279,000	819,798	(f)	(f)	(f)	1,130,000	1,180,000	1,800,000	(a)	(a)	(a)	(a)
Manchuria (b)	4,400,000	4,500,000	3,200,000	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Philippine Republic	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Portuguese India	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Siam	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Turkey	18,743	829	6,681	89,002	110,438	143,320	165,170	12,000	54,000	24,000	74,000	66,000	87,000	100,000
TOTAL	202,000,000	210,000,000	180,000,000	135,000,000	133,000,000	166,000,000	195,000,000	133,000,000	133,000,000	154,000,000	154,000,000	187,000,000	187,000,000	217,000,000
World's Total	230,000,000	236,000,000	202,000,000	157,000,000	154,000,000	187,000,000	217,000,000	133,000,000	133,000,000	154,000,000	154,000,000	187,000,000	187,000,000	217,000,000

(a) Information not available.  
 (b) Estimated.  
 (c) Usable ore. Including shipments of manganese iron ore up to 35 per cent. Mn.  
 (d) Including iron sand as follows (long tons): 1942—362,000; 1943—420,000; 1944—474,000; 1945—267,110; 1946—471,000; 1947—8,641; 1948—2,460.  
 (e) Excluding iron sand.  
 (f) Southern Korea only.

## DETAILS OF PRODUCTION OF IRON ORE IN CERTAIN COUNTRIES

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom—							
West Coast hematite ..	615,500	596,100	534,800	405,800	379,100	368,600	325,200
Jurassic ironstones—							
Lower lias .. ..	3,671,800	3,271,400	3,085,800	2,688,500	2,660,500	2,615,800	3,167,200
Middle lias .. ..	4,586,800	4,438,200	3,797,000	3,171,900	2,343,400	2,003,800	2,537,400
Inferior oolite ..	10,635,300	9,852,400	7,869,500	7,759,300	6,657,900	5,984,200	6,967,000
Coal measure ironstones	186,900	153,500	24,100	6,800	5,600	2,200	200
Other iron ore (hematite, limonite, etc.) ..	209,300	182,100	160,500	142,600	126,300	116,300	92,200
Union of South Africa—							
Hematite .. ..	648,942	652,783	701,804	} 824,829	899,838	1,105,800	(a)
Siliceous hematite ..	42,700	62,093	39,676		—	—	(a)
Magnetite .. ..	—	—	1,018		5,042	2,717	(a)
Carbonate .. ..	14,754	11,598	13,763	22,644	29,324	37,979	(a)
Canada (b)—							
Siderite (sintered) ..	482,000	440,000	474,000	462,000	552,000	508,000	(a)
Hematite .. ..	—	—	16,000	486,000	888,000	1,206,000	(a)
Newfoundland—							
Hematite .. ..	1,190,126	537,088	462,080	967,062	(a)	(a)	(a)
Magnetite .. ..	2,744	5,716	2,291	—	(a)	(a)	(a)
<b>FOREIGN COUNTRIES</b>							
France—							
Phosphoric .. ..	(a)	(a)	(a)	7,253,695	15,195,689	17,295,104	(a)
Medium phosphoric ..	(a)	(a)	(a)	208,568	611,468	860,561	(a)
Non-phosphoric .. ..	(a)	(a)	(a)	128,685	168,698	267,212	(a)
Italy—							
Iron ore .. ..	(a)	(a)	(a)	(a)	129,538	222,368	534,661
Manganiferous iron ore	(a)	(a)	(a)	(a)	17,869	20,217	23,050
Luxemburg—							
Siliceous iron ore ..	} (a)	(a)	(a)	{ 728,920	1,287,706	1,143,433	1,375,086
Calcareous iron ore ..					802,210	698,762	1,794,503
Ferruginous limestone ..					121,505	118,508	175,998
Poland—							
Hematite .. ..	} (a)	(a)	(a)	(a)	7,500	9,190	(a)
Magnetite .. ..					21,578	39,052	(a)
Siderite .. ..					—	9,243	(a)
Limonite .. ..					35,944	38,094	(a)
Argillaceous iron ore ..					293,747	376,928	(a)
Bog iron ore .. ..					30,455	23,980	(a)
Portugal—							
Hematite .. ..	3	1	—	—	49	—	159
Magnetite .. ..	—	—	7	—	—	—	—
Sweden—							
Manganiferous iron ore	185,202	60,644	72,392	67,656	130,538	84,465	90,482
Other iron ore .. ..	9,737,468	10,588,141	7,066,164	3,799,878	6,628,212	8,669,602	12,986,784
<i>By phosphorus content (c)</i> —							
Under 0.006% .. ..	829,158	863,485	732,493	570,139	492,460	496,611	522,682
0.006% to under 0.04%	1,726,831	1,895,987	1,636,727	1,021,255	1,669,400	1,840,918	2,095,515
0.04% to under 0.1%	725,184	789,429	255,682	141,056	113,465	121,640	78,933
0.1% to under 0.7%	1,789,464	2,644,460	1,960,915	1,319,140	2,204,305	2,896,585	4,305,110
0.7% to under 1%	2,290,879	1,442,314	1,204,312	465,268	765,104	792,445	1,037,628
1% and over .. ..	2,534,154	3,013,110	1,348,427	350,676	1,514,016	2,605,868	5,037,398
Algeria—							
Non-phosphoric .. ..	324,000	180,624	771,980	1,183,850	1,644,850	1,531,448	1,841,968
Tunis—							
Non-phosphoric .. ..	24,000	29,230	86,700	130,358	180,800	397,310	679,300

(a) Information not available.

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

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

## DETAILS OF PRODUCTION OF IRON ORE (Cont.)

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
United States—							
Ore containing less than 5% Mn—							
Hematite* .. ..	99,704,591	94,418,034	86,726,870	81,294,688	65,728,172	84,535,465	90,686,138
Magnetite* .. ..	3,541,003	4,549,181	5,578,807	5,620,810	3,920,986	6,811,876	7,661,207
Limonite .. ..	1,637,140	1,627,490	1,218,509	942,910	686,402	1,201,408	2,176,149
Siderite .. ..	450	617	611	545	650	48	—
Pyrite cinder and sinter	643,011	652,513	592,908	517,440	506,903	542,723	479,998
Ore containing 5 to under 10% Mn .. ..	1,339,833	1,117,210	1,062,925	1,257,613	955,977	933,001	1,070,110
Ore containing 10 to under 35% Mn .. ..	237,199	418,627	265,162	102,078	89,722	115,530	126,823
Argentina—							
Magnetite .. ..	834	148	(a)	(a)	(a)	(a)	(a)
Hematite .. ..	42	—	(a)	(a)	(a)	(a)	(a)
Turkey—							
Magnetite .. ..	18,743	90,302	89,002	123,283	110,438	143,320	165,170

\* 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	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom .. ..	461	359	378	434	792	1,053	601
Sierra Leone .. ..	623,270	556,515	454,660	780,884	603,647	673,685	916,486
Union of South Africa .. ..	86,333	—	16	3	4	(a)	(a)
Canada .. ..	264,250	334,533	275,379	688,835	1,022,550	1,562,479	955,604
Newfoundland .. ..	865,899	809,020	583,179	1,006,429	1,250,031	1,258,020	1,731,828
India .. ..	—	—	—	—	—	20	—
Malaya .. ..	(e) 89,000	(e) 42,000	—	(a)	3	—	69,539
Australia .. ..	—	—	21	5	4	14	40
<b>Irish Republic—</b>							
Bog ore .. ..	13,304	4,333	3,931	5,224	2,619	2,141	1,613
Burnt pyrites .. ..	3,278	10,077	8,969	16,026	7,996	4,325	15,291
<b>FOREIGN COUNTRIES</b>							
Austria .. ..	(a)	(a)	(a)	(a)	(a)	34,436	2,792
Belgium-Luxemburg E.U.	6,759	22,922	12,188	485	2,560	22,637	438,022
Bulgaria .. ..	24,455	12,117	2,372	(a)	(a)	(a)	(a)
Czechoslovakia .. ..	(a)	(a)	(a)	(a)	48,251	15,730	(f) 126,589
Finland .. ..	—	2	—	1	479	—	—
France .. ..	8,211,159	9,313,999	4,879,802	1,643,500	5,344,790	6,493,478	6,210,922
Germany .. ..	2,223,314	2,563,638	(d) 851,451	(a)	(a)	(a)	(a)
Greece .. ..	(a)	(a)	(a)	—	12,385	(a)	(a)
Italy—							
Iron ore .. ..	(a)	(a)	(a)	(a)	(a)	274	4,402
Burnt iron pyrites .. ..	(a)	(a)	(a)	(a)	(a)	14,169	281,120
Norway—							
Iron ore .. ..	559,475	337,018	238,778	42,877	4,938	50,358	180,093
Burnt iron pyrites .. ..	25,596	33,144	21,559	1,181	3,891	11,846	23,539
Portugal .. ..	1,495	—	—	—	1,084	509	10
Spain .. ..	660,961	581,486	519,202	256,625	776,476	718,269	804,418
Sweden—							
Iron ore .. ..	8,489,002	10,095,122	4,525,783	1,209,510	5,231,688	8,369,916	11,335,971
Burnt iron pyrites .. ..	(a)	(a)	(a)	(a)	60,321	16,079	122,866
Switzerland .. ..	217,960	201,969	191,367	11,693	78,667	69,454	122,097
Algeria .. ..	455,400	436,800	753,600	1,343,531	1,560,759	1,523,741	2,157,320
Morocco (French) .. ..	12,200	6,500	7,500	6,889	93,500	176,370	200,089
Morocco (Spanish) .. ..	(b) 448,470	(b) 601,081	664,641	703,633	806,723	888,401	(a)
Tunis (c) .. ..	53,909	—	2,200	1,336	172,477	351,848	739,926
Cuba .. ..	14,487	14	108	162	(a)	(a)	(a)
Mexico .. ..	6,294	16,687	67,660	44,105	9,661	64,347	157,197
United States .. ..	2,515,388	2,424,801	2,158,740	2,063,125	1,505,854	2,806,844	3,080,666
Brazil .. ..	314,042	317,704	202,548	295,256	63,396	193,630	589,824
Chile .. ..	411,333	—	—	214,070	1,165,100	1,719,409	2,583,640
China .. ..	(e) 3,910,252	(e) 3,203,392	(e) 1,009,796	(e) 14,763	—	—	192,790
French Indo-China .. ..	60,100	6,500	—	(a)	(a)	(a)	(a)
Korea (e) .. ..	654,000	231,000	600,000	122,042	(a)	(a)	(a)
Manchuria (e) .. ..	61,021	—	8,858	4,921	(a)	(a)	(a)
Philippine Republic (e) .. ..	27,558	124,010	22,637	—	(a)	(a)	(a)

(a) Information not available.

(b) Exports via the port of Melilla.

(c) Including re-exports.

(d) January to July only.

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

(f) January to October only.

## IMPORTS OF IRON ORE

(Less Re-exports)

(Long tons)

Importing Country	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom .. ..	1,921,649	1,894,279	2,172,244	4,068,218	6,594,556	6,797,205	8,676,726
Canada .. ..	2,412,471	3,487,879	2,791,651	3,339,167	2,037,212	3,521,919	3,839,431
Trinidad and Tobago .. ..	77	—	50	50	—	—	—
India .. ..	—	12	—	—	54	39	1,519
Irish Republic .. ..	—	—	—	—	65	—	387
FOREIGN COUNTRIES							
Austria—							
Iron ore .. ..	(a)	(a)	(a)	(a)	(a)	30,263	136,331
Burnt pyrites .. ..	(a)	(a)	(a)	(a)	(a)	24,632	277,502
Belgium-Luxemburg E.U.	3,219,506	4,558,258	1,563,662	1,816,149	5,889,794	6,676,383	8,602,386
Czechoslovakia—							
Iron ore .. ..	(a)	(a)	(a)	(a)	1,276,875	1,813,924	b 1,570,635
Burnt pyrites .. ..	(a)	(a)	(a)	(a)	(a)	55,506	(b) 20,297
Finland (c) .. ..	3,338	28,238	52,449	35,335	79,837	77,768	149,032
France .. ..	341,863	105,949	26,627	49,894	96,714	185,707	251,852
Germany .. ..	17,538,923	19,219,931	(d)8,081,146	(a)	(a)	(a)	2,390,637
Hungary (including burnt pyrites) .. ..							
.. ..	(a)	(a)	(a)	(a)	122,852	569,514	(a)
Italy .. ..	150,000	(a)	(a)	(a)	(a)	17,591	24,030
Netherlands .. ..	282,289	156,887	(a)	(a)	210,455	477,403	741,352
Norway .. ..	18,883	22,613	10,666	4,027	31,177	34,846	37,583
Poland .. ..	(a)	(a)	(a)	228,970	964,430	1,181,378	1,590,827
Spain .. ..	104,746	92,794	101,360	76,782	105,448	133,623	148,464
Sweden .. ..	118	370	99	3	907	909	498
Switzerland (e) .. ..	102,809	53,073	9,743	36,709	86,227	52,301	69,103
Algeria .. ..	—	14	1,023	10	1,719	4,057	—
Tunis .. ..	287	—	—	—	97	787	—
United States .. ..	731,325	399,117	456,739	1,193,711	2,820,532	4,889,326	6,086,070
Japan (f) .. ..	4,802,927	3,608,101	1,641,656	141,726	—	—	522,798

(a) Information not available.

(b) January to October only.

(c) Total imports.

(d) January to July only.

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

(f) Years ended March 31 of year following that stated for the years 1942 to 1945.



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

(Long tons)

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom . . . . .	7,725,600	7,186,900	6,736,500	7,107,400	7,761,200	7,784,600	9,276,400
Southern Rhodesia . . . . .	—	—	—	—	—	—	16,434
Union of South Africa . . . . .	358,900	479,200	464,100	546,879	551,161	632,053	640,803
Canada . . . . .	1,950,028	1,745,860	1,807,099	1,740,706	1,380,039	1,955,331	2,105,780
India . . . . .	1,850,900	1,759,600	1,443,200	1,405,000	1,439,000	1,435,000	1,464,000
Australia (b) . . . . .	(c)1,557,641	1,439,228	(c)1,305,357	1,159,483	932,576	1,186,657	1,258,804
<b>TOTAL . . . . .</b>	<b>13,440,000</b>	<b>12,610,000</b>	<b>11,760,000</b>	<b>11,959,000</b>	<b>12,064,000</b>	<b>12,994,000</b>	<b>14,762,000</b>
<b>FOREIGN COUNTRIES</b>							
Austria . . . . .	811,598	996,250	942,014	99,946	56,950	274,109	603,527
Belgium . . . . .	1,249,401	1,604,817	707,142	722,978	2,126,703	2,776,466	3,874,731
Czechoslovakia . . . . .	1,571,000	1,677,000	1,559,000	567,000	945,000	1,400,000	1,640,000
Finland . . . . .	28,778	42,594	98,783	36,222	75,871	62,147	91,110
France . . . . .	3,777,000	4,843,000	2,847,000	1,178,235	(d)3,389,493	(d)4,808,548	6,454,956
Germany—							
Bizonal Area . . . . .					2,050,511	2,225,470	4,536,981
French Zone (e) . . . . .	15,090,000	15,720,000	13,158,000	(a)	242,577	642,594	1,168,840
Russian Zone . . . . .					(a)	(a)	(a)
Hungary . . . . .	411,100	410,900	390,000	43,000	157,800	298,800	(o)
Italy . . . . .	959,859	715,667	304,263	73,964	201,305	377,877	517,763
Luxemburg . . . . .	1,662,000	2,246,000	1,327,000	313,000	1,343,400	1,789,300	2,852,741
Netherlands . . . . .	149,000	92,500	65,900	24,600	184,200	285,600	434,500
Norway . . . . .	109,087	142,568	121,791	50,190	133,271	162,709	211,328
Poland . . . . .	(a)	(a)	(a)	(f) 227,000	714,274	853,426	1,112,000
Roumania . . . . .	159,140	222,919	(a)	(a)	(a)	(a)	(a)
Spain . . . . .	546,712	555,090	566,664	481,739	500,022	510,351	528,214
Sweden . . . . .	758,600	817,728	874,180	772,905	707,975	713,125	790,894
Switzerland . . . . .	15,690	18,700	31,980	4,000	13,230	14,400	20,000
U.S.S.R. (g) . . . . .	(a)	(a)	(a)	8,800,000	9,900,000	11,300,000	13,800,000
Mexico . . . . .	104,827	144,736	132,504	214,874	277,785	332,201	278,617
United States . . . . .	54,377,950	56,044,595	56,130,534	49,034,847	41,531,095	53,676,178	55,278,178
Brazil . . . . .	210,245	244,453	286,617	255,803	364,867	473,333	543,098
Chile . . . . .	4,307	9,110	5,854	6,739	(a)	11,030	14,210
China . . . . .	(a)	(a)	13,325	22,200	1,305	(a)	(a)
Japan . . . . .	4,354,000	4,048,000	2,750,000	965,000	208,440	361,153	822,520
Korea . . . . .	392,135	534,909	558,888	(a)	(a)	(a)	(a)
Manchuria . . . . .	1,656,000	1,699,000	1,563,000	(a)	(a)	(a)	(a)
Turkey . . . . .	64,200	54,500	68,693	68,426	76,670	97,464	100,419
<b>TOTAL . . . . .</b>	<b>95,000,000</b>	<b>100,000,000</b>	<b>94,000,000</b>	<b>66,000,000</b>	<b>66,000,000</b>	<b>84,000,000</b>	<b>96,000,000</b>
<b>WORLD'S TOTAL . . . . .</b>	<b>108,500,000</b>	<b>113,000,000</b>	<b>106,000,000</b>	<b>78,000,000</b>	<b>78,000,000</b>	<b>97,000,000</b>	<b>111,000,000</b>

\* For details see page 138.

(a) Information not available.

(b) Years ended June 30 of that stated.

(c) Excluding direct castings.

(d) Excluding electric furnace ferro-alloys.

(e) Including the Saar.

(f) February to December only.

(g) Estimated.

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

(Long tons)

Producing Country	1942	1943	1944	1945	1946	1947	1948															
<b>BRITISH COUNTRIES</b>																						
United Kingdom—																						
Hematite .. .. .	963,700	927,200	1,009,200	1,076,200	1,121,000	1,116,500	1,366,400															
Basic .. .. .	5,553,300	5,070,000	4,791,600	4,883,700	5,288,300	5,183,300	6,255,500															
Foundry .. .. .	963,400	1,025,300	740,300	964,000	1,134,500	1,281,800	1,395,600															
Forge .. .. .	69,200	40,400	35,400	51,900	65,900	70,300	92,800															
Castings .. .. .	1,100	400	500	300	1,400	1,000	2,600															
Spiegeleisen (b) .. .. .	174,900	123,600	15,500	26,600	35,300	28,700	31,500															
Ferro-manganese (b) .. .. .								144,000	104,700	114,800	103,000	132,000										
Other ferro-alloys (c)—																						
Tungsten (d) .. .. .	(a)	(a)	8,500	6,500	7,400	6,800	9,700															
Molybdenum (d) .. .. .								3,900	3,600	4,100	3,800	5,300										
Vanadium (d) .. .. .													—	—	500	1,100	1,100					
Ferro-chrome .. .. .																		5,000	6,000	6,500	6,300	7,500
Refined ferro-manganese																						
Ferro-phosphorus .. .. .																						
Ferro-silicon .. .. .																						
Ferro-silicon .. .. .																						
Canada—																						
Basic .. .. .	1,469,644	1,300,490	1,369,768	1,268,040	989,995	1,417,191	1,555,012															
Foundry .. .. .	142,611	132,726	128,360	177,004	135,021	209,475	193,077															
Malleable .. .. .	151,151	136,667	156,004	142,410	130,566	125,877	149,893															
Ferro-alloys .. .. .	186,622	175,977	152,967	153,252	124,457	202,788	207,798															
India—																						
Basic .. .. .	1,307,100	1,349,500	1,129,800	1,109,000	1,033,000	972,000	1,048,000															
Foundry .. .. .	494,800	367,900	295,200	247,000	264,000	347,000	356,000															
Direct castings .. .. .	27,800	31,500	12,000	40,000	76,000	98,000	52,000															
Ferro-alloys .. .. .	21,200	10,700	6,200	9,000	16,000	18,000	8,000															
<b>FOREIGN COUNTRIES</b>																						
Belgium—																						
Basic .. .. .	1,130,312	1,450,621	614,745	612,402	1,980,804	2,602,246	3,613,740															
Forge .. .. .	48,728	60,657	26,574	15,777	36,130																	
Foundry .. .. .	55,568	84,396	64,357	91,403	97,200																	
Ferro-alloys .. .. .	14,793	9,143	1,466	3,396	12,569																	
Finland—																						
Pig-iron .. .. .	28,180	41,072	97,530	34,464	75,537	61,932	90,321															
Ferro-alloys .. .. .	598	1,522	1,253	1,758	334	215	789															
France—																						
Phosphoric (over 1% P)—																						
Basic .. .. .	3,078,142	4,035,375	2,383,954	880,253	2,695,624	3,754,281	5,072,903															
Foundry .. .. .	177,615	207,263	98,928	88,043	204,075	291,646	393,018															
Semi-phosphoric (from 0.12% to 1% P)—																						
Foundry .. .. .	21,650	(e) 36,539	(e) 14,729	20,887	23,687	45,146	129,497															
Open hearth, basic .. .. .	2,187							651	22,790	9,983												
Hematite (less than 0.12% P)—																						
Foundry .. .. .	114,337	80,767	58,109	77,463	128,724	173,624	210,082															
Open hearth .. .. .	155,288	194,428	6,889	77,537	229,656	299,608	319,752															
Bessemer .. .. .	181	8,649	6,673																			
Other pig-iron .. .. .	179,579	218,855	142,557	—	(f) 62,053	(f) 109,267	(f) 162,919															
Spiegeleisen .. .. .	37,073	49,848	31,993	13,140	(g) 28,792	(g) 78,650	(g) 91,657															
Ferro-manganese .. .. .	11,805	11,571	3,776	3,593	(g) 16,231	(g) 33,536	(g) 64,245															
Ferro-silicon .. .. .	(a)	(e) 18,405	(e) 62,556	11,720	—	—	—															
Other ferro-alloys .. .. .	(a)	(e) 8,113	(e) 3,664	4,599	(h)	(h)	(h)															

(a) Information not available.

(c) Excluded from totals on page 137.

(e) Excluding Alsace-Lorraine.

(g) Excluding electric furnace ferro-alloys.

(b) Blast furnace ferro-alloys.

(d) Metal content.

(f) Including "other ferro-alloys."

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

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

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
<b>Germany—</b>							
Hematite .. ..	734,000	968,000	918,000	(a)	(a)	(b) 139,566	(b) 274,847
Basic .. ..	9,974,000	10,681,000	8,884,000	(a)	(a)	(b) 2,387,173	(b) 4,788,657
Foundry .. ..	753,000	760,000	536,000	(a)	(a)	(b) 283,083	(b) 461,562
Forge, etc. .. ..	426,000	239,000	189,000	(a)	(a)		
Special pig-irons and ferro-alloys .. ..	3,203,000	3,072,000	2,631,000	(a)	(a)	(b) 58,242	(b) 128,375
<b>Italy—</b>							
Pig-iron .. ..	876,000	633,672	227,969	60,960	173,903	312,983	442,267
Spiegeleisen .. ..	32,329	30,273	19,661	3,504	11,673	19,066	20,680
Ferro-manganese .. ..	8,871	14,917	7,103	1,750	7,603	20,312	17,854
Ferro-silicon .. ..	20,268	13,843	25,808	3,598	1,438	9,035	17,550
Ferro-silico-manganese .. ..	7,861	8,471	8,383	1,915	2,657	6,201	7,273
Ferro-chrome .. ..	8,002	5,340	6,281	1,043	62	1,078	1,226
Ferro-titanium .. ..	227	156	—	13	12	40	61
Ferro-tungsten .. ..	114	56	—	—	9	91	48
Ferro-vanadium .. ..	206	120	—	16	—	—	—
Ferro-molybdenum .. ..	5	34	—	—	9	7	78
Ferro-silico-aluminium .. ..	609	130	249	—	288	522	322
Other ferro-alloys .. ..	5,361	8,655	8,819	734	3,733	8,542	10,404
<b>Luxemburg—</b>							
Basic .. ..	(a)	(a)	(a)	298,000	1,343,400	1,788,300	2,542,462
Foundry .. ..	(a)	(a)	(a)	15,000	—	1,000	40,279
<b>Norway—</b>							
Pig-iron .. ..	47,839	46,934	38,021	33,336	71,907	73,424	62,403
Ferro-silicon .. ..	53,859	82,901	65,274	15,735	26,030	36,309	43,771
Other ferro-alloys .. ..	7,389	12,733	18,496	3,119	35,334	52,976	105,154
<b>Poland—</b>							
Open hearth .. ..	(a)	(a)	(a)	(a)	606,795	664,443	(a)
Foundry .. ..	(a)	(a)	(a)	(a)	61,536	136,888	(a)
Phosphoric .. ..	(a)	(a)	(a)	(a)	1,016	(a)	(a)
Hematite .. ..	(a)	(a)	(a)	(a)	21,705	(a)	(a)
Spiegeleisen .. ..	(a)	(a)	(a)	(a)	10,744	(a)	(a)
Ferro-alloys .. ..	(a)	(a)	(a)	(a)	12,478	11,599	(a)
<b>Spain—</b>							
Pig-iron .. ..	534,885	538,593	550,238	471,333	483,307	495,355	513,319
Ferro-manganese .. ..	7,795	11,763	11,432	6,567	11,822	10,098	9,909
Ferro-silicon .. ..	4,016	4,724	4,972	3,803	4,783	4,783	4,878
Ferro-tungsten .. ..	16	10	22	36	110	115	108
<b>Sweden—</b>							
Open hearth, acid .. ..	163,173	170,257	170,411	158,799	138,972	119,647	131,489
do. basic .. ..	191,649	205,675	257,200	237,916	173,622	191,027	206,466
Bessemer, acid .. ..	24,175	25,956	29,901	15,038	12,419	9,250	13,173
do. basic .. ..	209,672	227,709	215,389	211,384	173,795	200,372	200,024
Foundry-hematite .. ..	39,733	36,338	36,525	28,787	43,507	35,223	64,921
do. phosphoric .. ..	47,969	53,811	87,770	55,158	93,170	101,226	106,753
do. other .. ..	4,352	15,112	2,094	1,469	2,683	3,784	3,388
Forge .. ..	33,984	33,287	29,124	30,405	24,462	12,934	15,254
Castings .. ..	11,333	11,701	11,884	10,376	12,890	13,364	12,893
Spiegeleisen .. ..	2,054	4,417	4,612	290	579	650	—
Ferro-manganese .. ..	1,454	2,239	1,897	2,693	3,935	4,878	6,989
Ferro-silicon .. ..	12,163	13,643	14,047	7,356	8,339	6,259	11,902
Ferro-silico-manganese .. ..	8,607	5,926	4,785	4,468	3,734	2,982	3,735
Ferro-chrome .. ..	5,123	5,881	6,263	7,652	13,252	9,068	10,778
Ferro-titanium .. ..	69	44	53	38	5	42	37
Ferro-tungsten .. ..	172	197	148	343	898	1,686	1,482
Ferro-molybdenum .. ..	150	90	26	178	420	329	295
Ferro-vanadium .. ..	53	109	93	10	39	91	185
Other ferro-alloys .. ..	165	144	192	189	145	26	42
Metallic silicon .. ..	2,548	5,188	983	167	—	287	1,086

(a) Information not available.

(b) Bizonal area and the Saar only. Excluding a small amount produced in other parts of the French Zone in 1948 which is included in the aggregate on page 137.

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

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
<i>Sweden—continued</i>							
Silico-calcium .. ..	—	—	—	—	—	—	—
Silico-chrome .. ..	—	—	792	237	1,009	—	—
Metallic chrome .. ..	2	6	—	—	—	—	2
Metallic manganese ..	—	6	—	—	—	—	—
<i>United States—</i>							
Basic .. ..	38,868,629	40,513,091	40,969,650	35,595,520	30,113,978	40,004,235	41,352,735
Bessemer .. ..	8,808,232	9,159,632	8,711,461	7,370,994	5,296,798	6,412,685	6,903,152
Low phosphorus .. ..	502,386	481,100	423,827	280,413	149,119	295,641	343,237
Foundry .. ..	2,273,687	1,838,840	1,955,965	2,007,935	2,273,157	2,636,969	2,472,777
Malleable .. ..	2,142,429	2,136,822	2,227,374	2,098,282	1,955,612	2,566,743	2,313,086
Other pig-iron .. ..	151,015	165,755	182,651	167,543	192,404	163,113	235,742
Ferro - manganese and spiegeleisen .. ..	700,985	717,521	722,891	630,427	482,197	714,933	718,762
Ferro-silicon .. ..	786,467	824,509	748,164	730,222	927,804	716,943	752,129
Other ferro-alloys ..	144,120	207,325	188,551	153,511	140,026	164,916	186,558
<i>Japan (b) (c)—</i>							
Pig-iron .. ..	4,193,000	3,921,000	2,634,000	945,000	195,260	349,300	795,262
Ferro-chrome .. ..	21,322	31,329	19,682	} 20,468	} 13,180	} 11,853	146
Ferro-manganese .. ..	85,332	62,150	56,285				17,872
Ferro-molybdenum .. ..	537	359	310				—
Ferro-phosphorus .. ..	1,523	1,139	962				541
Ferro-silicon .. ..	25,334	23,120	30,095				7,320
Ferro-titanium .. ..	101	246	280				18
Ferro-tungsten .. ..	2,118	3,165	1,542				337
Ferro-vanadium .. ..	405	288	176				—
Other ferro-alloys ..	(a)	(a)	(a)	1,015			

(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 1942 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	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom .. ..	12,941,700	13,031,200	12,142,200	11,824,400	12,695,300	12,724,500	14,876,600
Southern Rhodesia (Ingots)	—	—	—	—	—	—	5,169
Union of South Africa ..	340,700	411,500	475,900	525,400	498,926	588,304	669,375
Canada .. ..	2,776,653	2,682,254	2,693,002	2,569,578	2,077,932	2,630,315	2,857,572
India .. ..	1,343,300	1,402,200	1,368,900	1,354,000	1,293,000	1,256,000	1,257,000
Australia (b) .. ..	1,699,793	1,707,198	1,592,935	1,395,065	1,089,237	1,341,601	1,380,195
<b>TOTAL .. ..</b>	<b>19,100,000</b>	<b>19,230,000</b>	<b>18,270,000</b>	<b>17,668,000</b>	<b>17,654,000</b>	<b>18,541,000</b>	<b>21,046,000</b>
<b>FOREIGN COUNTRIES</b>							
Austria .. ..	861,373	985,570	979,000	168,528	184,054	350,972	637,943
Belgium .. ..	1,358,500	1,643,733	623,829	737,328	2,260,299	2,851,140	3,855,000
Czechoslovakia .. ..	2,339,000	2,527,000	2,480,000	933,000	1,642,000	2,250,000	(a)
Finland .. ..	75,446	88,539	84,903	79,134	81,903	61,137	96,703
France .. ..	4,417,455	5,046,108	3,042,906	1,634,745	4,338,485	5,642,278	7,121,387
Germany—							
Bizonal Area .. ..					2,497,816	2,962,203	5,377,252
French Zone (g) ..	20,137,000	20,405,000	18,005,000	(a)	296,721	744,988	1,299,897
Russian Zone .. ..					(a)	(a)	(a)
Hungary .. ..	772,100	764,100	683,000	126,400	347,300	587,400	(a)
Italy .. ..	1,903,135	1,699,922	1,009,986	388,521	1,135,078	1,676,918	2,091,583
Luxemburg .. ..	1,541,000	2,117,000	1,249,000	255,000	1,274,500	1,686,000	2,414,105
Netherlands .. ..	157,500	79,700	59,100	13,000	135,800	204,000	320,000
Poland .. ..	(a)	1,480,000	1,380,000	(c) 493,700	1,200,167	1,554,180	1,800,000
Roumania .. ..	(d) 290,000	345,000	(a)	(a)	(a)	(a)	(a)
Spain .. ..	634,210	665,071	646,588	566,856	630,259	598,071	614,204
Sweden .. ..	1,208,622	1,194,824	1,178,526	1,184,440	1,183,773	1,171,897	1,237,066
Switzerland .. ..	81,000	91,000	111,400	106,100	33,500	91,000	118,000
U.S.S.R. (d) .. ..	(a)	(a)	(a)	10,800,000	11,800,000	12,800,000	16,400,000
Mexico .. ..	93,300	173,600	178,400	189,000	246,800	316,450	265,298
United States (e) ..	76,814,224	79,318,314	80,037,143	71,162,186	59,466,718	75,798,278	79,143,277
Brazil .. ..	157,093	181,414	215,836	202,683	337,202	380,859	475,455
Japan .. ..	6,933,000	7,700,000	5,823,000	2,055,000	555,529	926,466	1,686,762
Korea .. ..	138,038	118,607	112,456	(a)	(a)	(a)	(a)
Manchuria (f) .. ..	704,000	1,170,000	1,390,000	(a)	(a)	(a)	(a)
Turkey .. ..	49,300	42,100	59,820	63,174	78,632	91,100	100,119
<b>TOTAL .. ..</b>	<b>128,000,000</b>	<b>136,000,000</b>	<b>130,000,000</b>	<b>93,000,000</b>	<b>90,000,000</b>	<b>113,000,000</b>	<b>129,000,000</b>
<b>WORLD'S TOTAL ..</b>	<b>147,000,000</b>	<b>155,000,000</b>	<b>148,000,000</b>	<b>110,700,000</b>	<b>107,700,000</b>	<b>131,600,000</b>	<b>150,000,000</b>

\* For details see page 142.

(a) Information not available.

(b) Years ended June 30 of that stated.

(c) February to December only.

(d) Estimated.

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

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

(g) Including the Saar.

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

(Long tons)

Producing Country	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Ingots—							
Open hearth, acid (b)	1,605,000	1,408,500	1,172,500	1,159,100	1,228,600	1,228,800	1,398,300
do. basic (b)	9,393,900	9,555,200	9,096,400	9,025,700	9,900,600	9,869,900	11,589,300
Bessemer, acid ..	95,500	72,100	85,400	170,700	209,800	207,900	218,300
do. basic ..	726,400	731,300	708,500	687,000	723,800	678,200	786,200
Electric ..	638,700	726,400	546,700	361,400	345,000	425,700	526,100
Castings, electric ..	221,000	265,600	248,400	180,600	134,300	150,000	180,800
All other ingots and castings (b)	261,200	272,100	284,300	239,900	153,200	164,000	177,600
Canada—							
Ingots—							
Open hearth, basic ..	2,342,725	2,218,343	2,248,120	2,142,730	1,694,606	2,177,294	2,340,130
do. electric ..	299,154	323,386	317,834	319,010	315,876	371,616	416,176
Castings—							
Open hearth, basic ..	23,774	25,799	31,279	27,871	21,934	21,518	30,394
Bessemer ..	5,817	3,574	2,205	842	536	662	353
Electric ..	105,181	111,152	93,564	79,125	44,980	59,225	70,519
India—							
Ingots—							
Open hearth, basic ..	1,239,860	1,274,652	1,215,035	1,199,000	1,160,000	1,134,000	1,141,000
do. acid ..	31,120	57,835	68,728	69,000	63,000	51,000	45,000
Electric ..	58,600	54,300	65,400	66,000	53,000	53,000	49,000
Castings ..	13,700	15,400	19,800	30,000	17,000	18,000	22,000
FOREIGN COUNTRIES							
Belgium—							
Ingots, open hearth ..							
do. Bessemer, basic	309,602	332,888	125,378	157,276	355,722	377,409	457,000
do. electric ..	982,198	1,255,167	469,004	542,603	1,835,752	2,368,054	3,261,000
Castings ..	18,661	15,855	5,570	8,809	19,379	42,619	70,000
..	48,039	39,821	23,877	28,640	49,446	63,058	67,000
France—							
Ingots and castings—							
Bessemer, acid ..	53,141	49,880	26,742	32,397	54,264	58,617	70,467
do. basic ..	2,540,186	3,215,292	1,963,293	750,253	2,258,523	3,091,164	4,196,335
Open hearth, acid ..	—	—	—	701	—	1,357	—
do. basic ..	1,468,582	1,427,206	812,802	623,280	1,592,223	1,994,599	2,302,878
Crucible ..	2,224	2,742	1,821	3,384	3,246	4,249	4,268
Electric ..	353,370	350,999	238,249	224,730	430,229	492,292	547,439
Of which—							
Ingots ..	4,275,400	4,927,000	2,978,000	1,513,163	4,196,479	5,480,873	6,929,211
Castings ..	141,700	118,100	65,000	121,582	142,006	161,405	192,176
Germany—							
Ingots—							
Open hearth ..	9,896,000	9,389,000	8,338,000	(a)	(c)1,224,436	(c)1,860,036	(c)2,978,591
Bessemer, basic ..	7,744,000	8,034,000	6,673,000	(a)	(c)1,476,041	(c)1,666,603	(c)3,351,309
Electric ..	1,256,000	1,504,000	1,488,000	(a)	(c) 19,634	(c) 54,795	(c) 125,348
Other ..	—	—	—	(a)	(c) 8,605	(c) 16,584	(c) 27,846
Castings—							
Open hearth ..	461,000	457,000	390,000	}	(a)	(c) 56,851	(c) 63,261
Bessemer ..	440,000	584,000	629,000				
Electric ..	341,000	438,000	488,000				
Italy—							
Ingots ..	1,792,853	1,609,181	962,758	360,338	1,077,299	1,599,638	2,011,491
Castings ..	110,282	90,741	47,228	28,183	57,779	77,280	80,092

(a) Information not available.

(b) Revised.

(c) Bizonal area and the Saar only. Excluding a small amount produced in other parts of the French Zone in 1948 which is included in the aggregate on page 141.

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

Producing Country	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Luxemburg—							
Open hearth .. ..				{	1,000	1,000	267
Bessemer, basic .. ..	(a)	(a)	(a)		254,000	1,262,700	1,660,400
Electric .. ..				1,000	10,800	24,600	49,908
Poland—							
Ingots .. ..	(a)	(a)	(a)	(a)	1,180,845	(a)	(a)
Castings .. ..	(a)	(a)	(a)	(a)	19,327	(a)	(a)
Spain—							
Open hearth .. ..	} 597,610	612,928	600,905	527,137	572,655	550,557	561,175
Bessemer .. ..							
Electric .. ..							
Electric .. ..	36,600	52,143	45,683	39,719	57,604	47,514	53,029
Sweden—							
Open hearth, acid .. ..	191,485	180,526	162,525	174,782	182,450	179,081	180,043
do. basic .. ..	557,492	557,036	557,513	527,298	501,062	473,047	486,618
Bessemer, acid .. ..	9,410	12,644	9,157	17,953	21,493	23,567	27,563
do. basic .. ..	111,140	102,550	104,692	109,038	92,362	122,097	117,782
Crucible .. ..	442	266	81	—	—	—	—
Electric .. ..	338,652	341,801	344,559	355,368	386,406	374,105	425,060
United States—							
Ingots—							
Open hearth, acid .. ..	946,746	1,053,321	890,942	632,123	418,175	482,149	479,494
do. basic .. ..	67,041,632	68,844,881	70,600,455	63,389,125	53,624,948	67,984,704	70,178,624
Bessemer .. ..	4,958,414	5,022,761	4,499,931	3,844,035	2,971,194	3,779,056	3,788,547
Crucible .. ..	1,795	130	22	20	} 2,213,450	3,286,177	4,440,724
Electric .. ..	3,548,696	3,994,087	3,689,021	3,019,356			
Castings (b)—							
Open hearth, acid .. ..	86,103	209,121	176,611	144,418	117,238	111,177	78,814
do. basic .. ..	230,837	90,716	85,522	66,122	46,747	59,284	102,494
Electric .. ..	116,771	103,297	94,639	66,987	74,964	95,729	74,580
Japan (c)—							
Open hearth .. ..	5,589,064	5,794,442	} 5,823,000	2,055,000	{ 161,650	474,944	1,141,851
Electric .. ..	1,397,195	2,192,618					
Korea—							
Ingots .. ..	125,822	105,836	98,305	(a)	(a)	(a)	(a)
Castings .. ..	12,216	12,771	14,151	(a)	(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 1942 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	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom—							
Pig-iron—							
Forge and foundry ..	1,395	3,347	2,554	1,038	30,757	41,750	1,072
Acid .. .. .	—	—	—	—	30	—	—
Basic .. .. .	—	—	6	—	1,322	771	3
Spiegeleisen and ferro-							
manganese .. ..	3,617	797	150	31,729	58,636	9,069	3,236
Ferro-tungsten .. ..	154	14	16	159	277	960	1,082
Other ferro-alloys ..	221	940	617	1,131	981	795	788
Iron and steel ingots ..	1	—	—	—	25	23	95
Blooms, billets and slabs—							
Iron .. .. .	53	6	6	—	12	285	7
Steel .. .. .	265	1,725	326	575	3,071	3,240	3,862
Special steel .. ..	23	1	4	7	1,505	144	1,734
Old and scrap .. ..	222	50	77	207	9,949	12,472	13,674
Southern Rhodesia—							
Pig-iron .. .. .	—	—	—	—	—	—	2,792
Union of South Africa—							
Pig-iron, etc. .. ..	2,294	2,829	4,589	5,134	3,465	(a)	(a)
British West Indies—							
Trinidad and Tobago—							
Old and scrap .. ..	42	—	—	4	—	109	2,275
Canada—							
Pig-iron .. .. .	381	391	5,087	19,512	838	1,317	591
Spiegeleisen .. ..	2,100	2,904	3,356	3,004	792	747	645
Ferro-chrome .. ..	(b)	(b)	(b)	(b)	5,604	27,734	20,103
Ferro-manganese ..	(b)	(b)	(b)	(b)	29,005	65,554	66,517
Ferro-silicon .. ..	66,562	67,618	53,926	56,673	42,161	54,949	55,095
Other ferro-alloys ..	49,289	54,928	36,334	62,754	7,529	9,334	7,083
Billets, ingots and blooms	31,125	6,961	21,287	40,074	70,818	75,920	31,940
Old and scrap .. ..	51,204	94,408	60,986	25,410	10,852	2,732	4,655
Hong Kong (including re-							
exports)—							
Pig-iron .. .. .	(a)	(a)	(a)	(a)	(a)	(a)	25
Special steel .. ..	(a)	(a)	(a)	(a)	(a)	(a)	51
Old and scrap .. ..	(a)	(a)	(a)	(a)	(a)	(a)	27,261
India (c)—							
Pig-iron .. .. .	243,246	204,593	(d) 180,521	(d) 67,417	(d) 8,367	1,730	39,751
Ferro-manganese ..	1	4,133	703	—	(d) 10,900	—	—
Old and scrap (including							
re-exports) .. .. .	—	—	—	—	—	—	53
Malaya (including re-							
exports)—							
Pig-iron .. .. .	(a)	(a)	(a)	(a)	2	252	3,160
Scrap .. .. .	(a)	(a)	(a)	(a)	444	1,461	53,074
Palestine—							
Old and scrap .. ..	—	—	1	6	(a)	(a)	(a)
Australia—							
Pig-iron .. .. .	42,283	6,856	11,394	4,827	54,054	103,602	61,311
Ferro-alloys .. ..	—	—	—	—	152	87	113
Ingots, blooms, billets,							
etc. .. .. .	14,741	7,723	12,881	52,360	116,663	44,018	10,583
Old and scrap .. ..	3,685	2,134	2,228	30	19,698	10,469	14,445
Irish Republic—							
Old and scrap .. ..	2,122	1,061	878	3,081	20,021	10,001	12,779

(a) Information not available.

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

(c) Includes trade by land as recorded.

(d) Sea-borne trade only.



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

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948						
FOREIGN COUNTRIES													
Austria—													
Pig-iron .. .. .	(a)	(a)	(a)	(a)	(a)	80,277	220,100						
Scrap .. .. .	(a)	(a)	(a)	(a)	(a)	71,922	50,560						
Belgium-Luxemburg E.U.—													
Pig-iron .. .. .	} 285	5,815	5	} (a)	(a)	6,848	52,753						
Ferro-alloys .. .. .								(a)	(a)	(a)	1,112		
Crude iron ingots .. .. .								15	2	—	(a)	(a)	} 3,102
Steel ingots .. .. .								806	641	299	(a)	(a)	
Steel blooms and billets .. .. .								15,303	1,163	10,879	(a)	(a)	
Special steel .. .. .	194	49	74	(a)	(a)	1,629	15,890						
Old and scrap .. .. .	13,242	1,812	686	(a)	(a)	(a)	22,036						
Bulgaria—													
Old and scrap .. .. .	1,083	2,617	—	—	—	(a)	(a)						
Czechoslovakia—													
Ferro-alloys .. .. .	} (a)	(a)	(a)	(a)	} 527	344	—						
Billets of cast iron .. .. .								468	—	—			
Billets, blooms and bars of puddled iron .. .. .								2,676	3,991	(b) 2,898			
Old and scrap .. .. .								—	239	(b) 623			
Denmark—													
Old and scrap .. .. .	30,797	25,395	10,039	15,762	44,436	50,030	60,674						
Finland—													
Pig-iron .. .. .	540	5,182	9,499	3,919	11,202	7,206	11,314						
Ferro-alloys .. .. .	24	491	523	—	398	12	—						
Old and scrap .. .. .	97	68	2	20	100	1	8						
France—													
Pig-iron—													
Forged or refined .. .. .	70,600	147,595	47,953	535	18,754	12,061	87,570						
Speiseleiser <sup>1)</sup> .. .. .	728	—	—	—	10	—	1,801						
Ferro-manganese .. .. .	141	537	2,135	17	334	951	102						
Ferro-silicon .. .. .	366	22	224	183	905	2,080	(a)						
Ferro-chrome .. .. .	1,160	29	10	1	39	37	(a)						
Other ferro-alloys .. .. .	712	386	88	217	219	260	416						
Ingots .. .. .	583	12	1,221	1	218	2,396	2,192						
Blooms and billets, forged or rolled .. .. .	8,710	39,845	50,710	2,660	2,555	3,764	20,496						
Tool steel .. .. .	187	143	22	152	618	1,705	(a)						
Machine iron or steel .. .. .	18,040	5,696	13,210	6	9,256	13,925	(a)						
Other special steel .. .. .	3,963	5,619	6,007	108	776	8,522	(a)						
Old, filings and scrap .. .. .	118,097	15,989	7,615	79	6,982	71,386	58,410						
Germany—													
Pig-iron .. .. .	318,751	248,834	(d) 105,388	(a)	(a)	(a)	62,005						
Ferro-manganese .. .. .	9,650	8,367	(d) 5,563	} (a)	(a)	(a)	(a)						
Ferro-silicon, etc. .. .. .	2,759	4,940	(d) 2,046										
Other ferro-alloys (c) .. .. .	10,028	21,004	(d) 9,030										
Rough blooms, bars, ingots, etc. .. .. .	832,036	498,919	(d) 76,144										
Old and scrap .. .. .	202,528	426,352	(d) 220,432	(a)	(a)	(a)	547,219						
Italy—													
Pig-iron .. .. .	(a)	(a)	(a)	—	(a)	1	11						
Ferro-alloys .. .. .	84	1	(a)	—	7	298	2,746						
Steel ingots, blooms and sheet bar .. .. .	(a)	(a)	(a)	(a)	(a)	135	17						
Scrap .. .. .	(a)	(a)	(a)	(a)	(a)	—	2,480						
Netherlands—													
Pig-iron and ferro-alloys .. .. .	57,739	—	} (a)	(a)	} 114,182	160,165	274,947						
Ingots, blooms and billets .. .. .	156	5,432						6,668	7,873	201			
Old and scrap .. .. .	52,140	16,977						13,113	58,919	40,279			
Norway—													
Pig-iron—electric .. .. .	5,610	13,829	14,863	6,372	43,909	47,214	36,135						
Ferro-chrome .. .. .	2,219	6,167	5,226	623	4,492	11,486	15,464						

(a) Information not available.

1) January to October only.

(c) May contain some ferro-silicon.

(d) January to July only.

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

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
Norway— <i>continued</i>							
Ferro-manganese .. ..	1,550	299	1,225	162	13,178	31,761	58,133
Ferro-silicon .. ..	42,467	68,187	53,798	12,777	21,109	32,973	43,964
Ferro-silico-manganese .. ..	5,936	13,792	7,671	729	2,258	3,817	9,411
Other ferro-alloys .. ..	29	13	—	—	—	—	20
Steel ingots .. ..	—	—	12	4	177	106	9
Old and scrap .. ..	23	100	114	5,011	23,811	5,915	352
Poland—							
Pig-iron and ferro-alloys	(a)	(a)	(a)	(a)	(a)	44,662	(a)
Portugal—							
Old and scrap .. ..	14,369	6,074	3,309	13,887	18,633	12,301	23,576
Spain—							
Pig-iron .. ..	9,312	2,625	2,928	2,872	2,866	5,569	5,388
Iron and steel ingots and blooms .. ..	736	956	75	28	44	27	5
Old and scrap .. ..	4,723	8	5	5	38	5	1
Sweden—							
Pig-iron .. ..	44,776	35,416	10,122	4,256	16,795	16,137	19,544
Sponge iron .. ..	8,009	7,376	6,130	203	2,916	2,510	4,670
Ferro-manganese .. ..	10	29	—	271	287	1,326	117
Spiegeleisen .. ..	22	—	—	—	107	114	—
Ferro-silicon .. ..	8,678	12,861	5,414	249	779	468	1,134
Ferro-silico-manganese .. ..	108	46	—	380	48	53	20
Ferro-chrome .. ..	878	15	—	177	1,952	3,650	271
Ferro-tungsten .. ..	4	5	—	5	288	1,024	704
Other ferro-alloys .. ..	41	50	—	9	234	289	224
Steel ingots .. ..	199	—	—	—	—	—	—
Steel blooms .. ..	525	374	98	—	98	148	98
Tool steel .. ..	718	440	97	133	420	426	519
Other special steel .. ..	808	431	543	442	1,227	1,251	1,670
Old, filings and scrap .. ..	172	100	32	530	2,279	3,715	3,088
Switzerland—							
Ferro-chrome and ferro-silicon .. ..	105	21	597	2	77	540	1,728
Old, filings and scrap .. ..	722	418	—	—	19,218	10,883	3,602
Algeria—							
Old, filings and scrap .. ..	1,935	13	63	9	114	16,201	19,643
Egypt (including re-exports)							
Scrap .. ..	—	—	—	—	1,029	—	—
Morocco (French)—							
Old and scrap .. ..	4	1,654	988	19	169	4,445	(a)
Cuba—							
Old and scrap .. ..	18,653	14,763	11,063	4,525	(a)	(a)	(a)
Mexico—							
Ferro-alloys .. ..	—	—	701	380	22	(a)	(a)
Ingots .. ..	—	—	6,992	2,549	15,116	(a)	(a)
United States—							
Pig-iron .. ..	98,792	128,812	144,070	81,221	85,445	35,895	6,279
Ferro-manganese and spiegeleisen .. ..	6,450	11,449	715	2,883	9,342	18,280	7,530
Ferro-chrome .. ..	4,982	2,107	475	1,313	2,241	2,751	6,030
Ferro-molybdenum .. ..	2,719	498	1,966	789	331	425	531
Ferro-vanadium .. ..	230	198	532	76	(a)	80	107
Ferro-silicon .. ..	4,334	25,860	2,217	972	(a)	992	2,211
Ferro-tungsten .. ..	119	461	1,051	385	(a)	37	460
Ferro-titanium .. ..	377	672	707	664	491	455	429
Other ferro-alloys .. ..	309	370	165	604	(a)	2,079	47,474
Steel ingots, slabs, blooms, billets and sheet bars .. ..	1,961,093	1,842,861	988,143	181,916	403,048	438,584	195,840

(a) Information not available.

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

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
<i>United States—continued</i>							
Old and scrap .. ..	121,910	47,300	80,874	70,767	121,679	148,675	183,322
Tin plate scrap and waste .. ..	3,306	106	3,264	12,648	(a)	21,218	29,524
<i>Brazil—</i>							
Pig-iron .. ..	6,039	17,674	4,175	16,567	22,650	28,999	64,169
Ferro-manganese .. ..	876	1,576	1,209	2,047	2	—	49
Ferro-nickel .. ..	49	—	53	111	—	15	—
Ferro-silicon .. ..	719	908	500	329	6	—	1,019
<i>Chile—</i>							
Ferro-manganese .. ..	—	—	21	5	1,841	(a)	(a)
Ingots .. ..	591	2,908	2,590	1,385	354	(a)	(a)
<i>Colombia—</i>							
Old and scrap .. ..	843	(a)	(a)	2,363	(a)	(a)	(a)
<i>China—</i>							
Pig-iron .. ..	(a)	(a)	(a)	(a)	1,968	—	(a)
<i>Iran (b)—</i>							
Ingots, old and scrap .. ..	261	303	(a)	(a)	54	2	(a)
<i>Japan—</i>							
Ferro-chrome .. ..	246	56	30	(a)	(a)	(a)	(a)
Ferro-manganese .. ..	1,772	835	472	(a)	(a)	(a)	(a)
Ferro-silicon .. ..	925	(a)	(a)	(a)	(a)	(a)	(a)
Scrap .. ..	(a)	(a)	(a)	(a)	(a)	(a)	96,196
<i>Korea—</i>							
Pig-iron (c) .. ..	130,900	264,752	264,131	31,495	(a)	7,449	(a)
<i>Manchuria—</i>							
Pig-iron (c) .. ..	703,708	535,408	301,167	17,715	(a)	(a)	(a)
<i>Syria and Lebanon—</i>							
Old and scrap .. ..	—	6	(a)	4	205	(a)	(a)
<i>Turkey—</i>							
Ingots and blocks .. ..	(a)	(a)	3,366	621	4,906	27,031	2,710
Old and scrap .. ..	(a)	(a)	—	—	—	4,164	2,784

(a) Information not available.

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

(c) Imports into Japan from the country indicated.

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom—							
Pig-iron—							
Charcoal .. .. .	1,066	—	—	12	7	—	3,426
Forge and foundry .. .. .	50,680	3,441	—	—	492	1,414	1,483
Acid .. . . .	5,413	100,385	65,122	3,646	—	2,465	37,373
Basic .. . . .	299,014	258,020	219,896	104,213	18,245	5,874	15,574
Other pig-iron .. . . .	—	—	—	—	950	1,126	1,500
Spiegeleisen and ferro-manganese .. . . .	2,705	3,888	84	(c) 25	150	1,685	—
Ferro-silicon .. . . .	38,054	88,392	34,646	32,213	33,144	46,102	58,852
Ferro-chrome .. . . .	16,890	28,254	11,274	2,999	3,683	20,815	15,773
Other ferro-alloys .. . . .	9,309	14,501	9,569	11,168	7,706	9,581	11,794
Iron and steel ingots .. . . .	480,442	498,095	297,862	36,417	74,809	111,767	19,180
Blooms, billets, slabs—							
Iron .. . . .	—	806	—	—	5	71	—
Steel .. . . .	884,209	845,753	693,533	79,694	299,569	201,224	162,388
Special steel—							
Ingots, blooms and billets .. . . .	208,785	90,373	5,784	505	101	2,152	} 14,305
Bars and rods .. . . .	95,422	97,772	12,824	412	76	1,434	
Old and scrap (b) .. . . .	15,336	4,577	31,808	178,287	443,028	378,588	857,621
Anglo-Egyptian Sudan—							
Pig-iron .. . . .	(£167)	99	6	31	40	—	100
Crude iron and steel .. . . .	230	1,500	716	966	1,902	4,120	3,262
Kenya and Uganda—							
Pig-iron .. . . .	(a)	(a)	(a)	(a)	(a)	(a)	379
Ingots, blooms, etc. .. . . .	(a)	(a)	(a)	(a)	(a)	(a)	19
Mauritius—							
Pig-iron .. . . .	14	82	60	43	21	10	17
Northern Rhodesia—							
Pig, ingots, etc. .. . . .	1,003	584	308	393	676	199	(a)
Southern Rhodesia—							
Pig, ingots, etc. .. . . .	1,628	4,361	4,843	3,947	2,859	1,710	2,436
Tool and drill steel .. . . .	234	484	446	431	815	670	651
South West Africa—							
Pig-iron .. . . .	10	—	10	—	1	(a)	(a)
Union of South Africa—							
Pig-iron and steel ingots .. . . .	5,919	2,982	19,836	25,320	1,644	(a)	(a)
Ferro-silicon .. . . .	455	51	—	1	234	(a)	(a)
Ferro-manganese .. . . .	100	162	—	126	5	(a)	(a)
Other ferro-alloys .. . . .	664	284	52	221	298	(a)	(a)
Tool and drill steel .. . . .	815	445	640	1,384	1,431	(a)	(a)
British West Indies—							
Jamaica—							
Pig-iron .. . . .	—	(£1,750)	(£640)	—	—	—	—
Trinidad and Tobago—							
Pig-iron .. . . .	1	3	3	1	} 1	—	} 10
Ingots, etc. .. . . .	30	2	2	—			

(a) Information not available.

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

Year	Long tons
1942 .. . . .	Nil
1943 .. . . .	Nil
1944 .. . . .	18,475
1945 .. . . .	2,000
1946 .. . . .	Nil
1947 .. . . .	41,505
1948 .. . . .	75,640

(c) Excess of re-exports.

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES (Cont.)</b>							
Canada—							
Pig-iron .. .. .	1,371	6,355	7,604	6,776	10,826	7,940	6,587
Sponge iron .. .. .	—	—	—	4	50	—	—
Ferro-alloys .. .. .	4,410	16,535	873	1,998	2,571	2,611	2,386
Ingots, blooms and billets	176,678	152,508	29,987	36,256	4,645	7,889	46,911
Scrap .. .. .	102,604	33,052	63,786	52,496	175,137	167,439	281,186
Newfoundland (b)—							
Pig-iron and ferro-alloys	(c) (£2,730)	(£2,407)	292	244	359	70	186
Aden—							
Pig-iron .. .. .	10	—	5	—	(a)	(a)	(a)
Ceylon— .. .. .							
Pig-iron .. .. .	205	748	648	10	549	1,210	124
Cyprus— .. .. .							
Pig-iron .. .. .	—	—	2	40	13	52	421
Old and scrap .. .. .	—	—	—	(d) 114	445	300	123
Hong Kong (total imports)—							
Pig-iron .. .. .	(a)	(a)	(a)	(a)	(a)	(a)	419
Special steel .. .. .	(a)	(a)	(a)	(a)	(a)	(a)	72
Old and scrap .. .. .	(a)	(a)	(a)	(a)	(a)	(a)	9,998
India—							
Pig-iron .. .. .	147	—	—	—	—	100	294
Ingots, blooms and billets	2	18,457	26,894	79,466	10,638	411	321
Tool steel .. .. .	38	26	11	22	80	186	51
Ferro-alloys .. .. .	3,676	1,061	2,871	4,955	1,893	918	854
Old and scrap (total imports .. .. .)	1,712	2,489	3,364	3,096	8,449	18,542	7,241
Malaya (total imports)—							
Pig-iron .. .. .	(a)	(a)	(a)	(a)	60	1,565	632
Scrap .. .. .	(a)	(a)	(a)	(a)	12	52	718
Palestine—							
Pig-iron .. .. .	1,339	2,299	483	929	1,521	(a)	(a)
Old and scrap .. .. .	26	296	13	143	(a)	(a)	(a)
Australia—							
Pig-iron .. .. .	988	106	—	—	—	10	400
Ferro-manganese .. .. .	944	1,319	945	786	{ 739 329	144	64
Other ferro-alloys .. .. .						1,225	896
Ingots and billets of high grade carbon alloy steels	9	20	—	—	6	8	6
Ingots, blooms, billets, etc. .. .. .	81	68	26	20	73	27	79
Scrap .. .. .	—	—	5	94	15	1,216	(d) 228
New Zealand—							
Pig-iron .. .. .	9,259	7,481	12,277	5,853	7,510	7,974	16,237
Billets and blooms .. .. .	11,607	13,089	2,940	139	774	2,908	7,326
Special steel .. .. .	206	(a)	(a)	206	270	555	331
Irish Republic—							
Pig-iron .. .. .	150	2,749	2,301	1,597	3,264	2,345	3,586
Crude forgings and castings .. .. .	254	58	77	143	365	216	220
Old and scrap .. .. .	147	15	430	89	949	1,635	185

(a) Information not available.

(b) Years ended March 31 following that stated.

(c) Nine months ended March 31, 1943.

(d) Excess of re-exports.

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES							
Austria—							
Pig-iron .. .. .	(a)	(a)	(a)	(a)	(a)	982	836
Ferro-manganese .. .. .	(a)	(a)	(a)	(a)	(a)	1,119	1,913
Ferro-silicon .. .. .	(a)	(a)	(a)	(a)	(a)	496	1,107
Other ferro-alloys .. .. .	(a)	(a)	(a)	(a)	(a)	1,034	2,640
Scrap .. .. .	(a)	(a)	(a)	(a)	(a)	129	19,178
Belgium-Luxemburg E.U.—							
Pig-iron .. .. .	32,036	27,118	21,076	5,303	(a)	69,721	69,293
Ferro-alloys .. .. .	—	—	—	(a)	(a)	(a)	84,982
Crude iron ingots .. .. .	241	582	83	(a)	(a)	(a)	} 1,056
Steel ingots .. .. .	478	308	15	(a)	(a)	(a)	
Steel blooms and billets	5,174	6,622	775	(a)	(a)	(a)	2,759
Special steel .. .. .	2,017	1,154	702	(a)	(a)	3,270	5,450
Old and scrap .. .. .	1,490	4,276	828	(a)	(a)	(a)	352,515
Bulgaria—							
Pig-iron .. .. .	4,031	1,531	2,612	4,949	10,286	(a)	(a)
Old and scrap .. .. .	7	16	21	2	149	(a)	(a)
Czechoslovakia—							
Pig-iron—							
Foundry .. .. .	} (a)	} (a)	} (a)	} (a)	} 3,334	5,136	(b) 49,682
For refining or puddling						821	(b) 266
Other ferro-alloys .. .. .						3,061	(b) 9,907
Ingots .. .. .						8	(b) —
Billets, blooms, bars of puddled iron .. .. .						10	(b) 72
Old and scrap .. .. .	298	(b) 135,968					
Denmark—							
Pig-iron .. .. .	23,375	21,912	23,557	10,349	40,720	34,404	22,217
Ferro-alloys .. .. .	3,326	3,808	3,908	247	5,029	9,477	6,988
Old and scrap .. .. .	399	459	407	573	417	2,750	2,988
Finland (total imports)—							
Pig-iron .. .. .	15,424	14,570	1,124	689	2,193	15,366	18,667
Billets .. .. .	3,004	346	1,901	1,489	1,778	10,712	18,619
Ferro-manganese and spiegeleisen .. .. .	858	1,908	888	471	904	1,962	2,836
Other ferro-alloys .. .. .	493	204	44	453	159	155	275
Old and scrap .. .. .	2,370	4,025	3,083	10,324	11,085	63,331	62,631
France—							
Pig-iron—hematite .. .. .	212	4	371	177	16,236	7,416	16,766
do. other .. .. .	16,588	1,627	205	2	13,377	2,671	671
Spiegeleisen .. .. .	2,738	27,337	22,786	1,928	17,698	67	12,048
Ferro-manganese .. .. .	39	356	1,109	1,987	11,930	11,905	244
Ferro-silicon .. .. .	14	2,458	1,005	96	1,898	1,500	} 293
Ferro-chrome .. .. .	4	286	355	507	134	832	
Other ferro-alloys .. .. .	36	95	71	4	3	515	
Ingots .. .. .	1,181	6,648	2,359	12	1,783	702	1,675
Blooms and billets, rolled or forged .. .. .	6,749	7,438	1,240	78,114	16,622	45,218	33,172
Tool steel .. .. .	438	571	251	37	531	1,172	(a)
Machine iron or steel .. .. .	28,225	17,086	2,437	4,500	18,942	5,000	(a)
Other special steel .. .. .	3,568	5,153	3,009	827	7,272	9,108	(a)
Old, filings and scrap .. .. .	7,995	65,892	12,739	2,085	21,612	38,320	42,001
Germany—							
Pig-iron .. .. .	205,571	237,356	(c) 73,712	} (a)	} (a)	} (a)	} (a)
Ferro-manganese .. .. .	13,159	654	(c) 252				
Ferro-silicon, etc. .. .. .	48,068	68,225	(c) 35,454				
Other ferro-alloys (d) .. .. .	8,109	6,609	(c) 1,411				
Rough blooms, ingots, bars, etc. .. .. .	74,692	370,301	(c) 58,933				
Old and scrap .. .. .	915,315	309,723	(c) 32,113				
Greece—							
Pig-iron .. .. .	(a)	(a)	(a)	63	1,779	(a)	(a)

(a) Information not available.

(b) January to October only.

(c) January to July only.

(d) May contain some ferro-silicium.

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948	
<b>FOREIGN COUNTRIES (Cont.)</b>								
<b>Italy—</b>								
Pig-iron .. .. .	140,000	60,000	(a)	(a)	(a)	150,742	130,238	
Spiegeleisen .. .. .	—	—	(a)	—	—	197	58	
Ferro-chrome .. .. .	1,522	70	(a)	—	116	80	524	
Ferro-manganese .. .. .	475	54	(a)	—	1,066	199	4,820	
Ferro-molybdenum .. .. .	84	38	(a)	—	75	27	61	
Other ferro-alloys .. .. .	29	11	(a)	—	—	367	705	
Steel ingots .. .. .	(a)	(a)	(a)	(a)	(a)	963	32,000	
Steel blooms and sheet bar	(a)	(a)	(a)	(a)	(a)	1,763	2,060	
Old and scrap .. .. .	(a)	(a)	(a)	(a)	(a)	73,460	128,034	
<b>Netherlands—</b>								
Pig-iron and ferro-alloys	1,380	2,589	} (a)	(a)	{ 2,376	1,649	4,606	
Ingots, blooms, billets, etc.	3,078	20,241				804	737	1,517
Old and scrap .. .. .	101	2,958				6,074	10,521	1,705
<b>Norway—</b>								
Pig-iron .. .. .	4,756	3,548	6,093	2,129	1,520	1,337	1,533	
Ferro-tungsten and ferro- vanadium .. .. .	—	—	7	5	10	35	56	
Other ferro-alloys .. .. .	4	47	225	355	57	34	87	
Steel ingots .. .. .	—	—	—	—	180	66	102	
Alloyed steel .. .. .	1,312	652	494	381	707	931	1,355	
Old and scrap .. .. .	86	9,341	9,137	614	2,568	2,881	4,097	
<b>Poland—</b>								
Pig-iron .. .. .	(a)	(a)	(a)	—	822	} 52,485	(a)	
Old and scrap .. .. .	(a)	(a)	(a)	—	10,135			
<b>Portugal—</b>								
Iron and steel ingots .. .. .	1,290	2,805	4,316	4,185	9,408	16,389	15,247	
Old and scrap .. .. .	30	1,034	113	342	9,656	1,812	1,162	
<b>Spain—</b>								
Pig-iron .. .. .	672	—	—	288	127	1	—	
Ferro-manganese .. .. .	295	15	—	5	1	11	36	
Other ferro-alloys .. .. .	35	48	92	82	403	264	143	
Special steel .. .. .	1,277	1,271	617	473	839	802	2,108	
Old and scrap .. .. .	8,708	12,909	3,282	22,469	28,664	13,787	33,325	
<b>Sweden—</b>								
Pig-iron .. .. .	70,398	68,673	20,095	17,155	89,625	138,607	98,644	
Spiegeleisen .. .. .	—	—	—	1,000	6,257	607	—	
Ferro-manganese .. .. .	13	17	10	1,952	5,362	583	2,073	
Ferro-chrome .. .. .	111	35	25	16	725	1,116	2,140	
Ferro-silicon and ferro- silico-manganese .. .. .	283	145	126	380	1,591	737	968	
Ferro-tungsten .. .. .	—	—	—	—	20	—	5	
Other ferro-alloys .. .. .	165	178	77	67	375	559	273	
Tool steel .. .. .	1	—	—	—	19	17	16	
Old, filings and scrap .. .. .	20,263	10,839	5,521	19,130	69,797	64,881	93,357	
<b>Switzerland—</b>								
Pig-iron, steel billets, blooms, etc. .. .. .	63,038	24,423	38,308	41,828	111,037	109,365	143,043	
Ferro-chrome and ferro- silicon .. .. .	234	173	94	127	2,260	2,769	5,418	
Old, filings and scrap .. .. .	717	792	628	341	8,533	60,916	60,791	
<b>Algeria—</b>								
Pig-iron .. .. .	411	233	1,784	417	475	1,389	2,546	
Spiegeleisen and ferro- alloys .. .. .	714	—	171	304	99	76	175	
Ingots, blooms and billets	65	—	56	4	170	224	106	
Tool and special steel .. .. .	214	8	1,233	54	31	181	(a)	
Machine iron and steel .. .. .	79	13	(a)	(a)	(a)	(a)	(a)	
Old, filings and scrap .. .. .	1,476	585	332	767	1,214	840	1,064	

(a) Information not available.

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Egypt—							
Pig-iron and spiegeleisen	2,529	1,357	751	2,041	377	2,755	1,636
Ferro-alloys .. ..	4	—	1	4	9	11	268
Ingots, billets, etc. ..	—	4	91	25	20	12	514
Special steel .. ..	137	295	1,450	635	1,534	586	1,739
Scrap (total imports) ..	210	702	1,049	423	903	3,755	3,718
Madagascar—							
Blooms, billets, etc. ..	(a)	89	(a)	2,309	1,922	3,202	7,213
Morocco (French)—							
Pig-iron .. ..	3	37	535	672	539	1,052	(a)
Ferro-alloys .. ..	219	—	42	41	42	46	(a)
Scrap, etc. .. ..	452	1,455	2,575	1,518	5,086	6,218	(a)
Morocco (Spanish)—							
Ingots .. ..	(a)	(a)	49	21	38	11	(a)
Tunis—							
Pig-iron .. ..	307	—	492	10	51	314	96
Steel ingots and billets ..	—	15	5,158	6,401	5,617	7,127	9,116
Tool steel .. ..	26	—	(a)	(a)	(a)	(a)	—
Old and scrap .. ..	3	1	21	1	2	2	(a)
Cuba (total imports)—							
Iron ingots .. ..	566	40	285	1,170	(a)	(a)	(a)
Mexico—							
Pig-iron .. ..	—	1	84	298	2		
Ferro-manganese .. ..	164	721	308	790	474		
Other ferro-alloys .. ..	779	1,108	816	1,059	732	(a)	(a)
Steel ingots, blooms and billets .. ..	4	—	2,846	1,821	385		
Scrap .. ..	13,461	16,831	13,604	20,771	44,317		
United States—							
Pig-iron .. ..	(a)	1,290	5,159	19,137	12,578	29,129	185,269
Spiegeleisen .. ..	1,777	2,905	3,358	2,809	(a)	—	—
Ferro-chrome .. ..	520	418	1,004	5,742	(a)	9,535	8,052
Ferro-manganese .. ..	13,189	2,055	3,749	31,715	(a)	72,596	87,697
Ferro-silicon .. ..	13,683	9,416	20,219	20,595	(a)	12,199	6,397
Ferro-zirconium, etc. ..	—	—	—	—	(a)	45	—
Sponge iron .. ..	—	—	—	79	1,194	1,040	2,838
Bar-iron, slabs, blooms, etc. .. ..	283	2,698	59	5,719	361	223	170
Steel ingots, blooms, etc.	6,163	309	12	1,477	859	1,352	20,768
Scrap .. ..	82,240	128,023	97,048	41,313	26,989	32,314	370,600
Tin plate scrap .. ..	24,082	19,567	17,323	18,072	24,530	30,797	41,084
Argentina—							
Ferro-manganese .. ..	1,147	1,723	1,143	2,405	1,677	(a)	(a)
Ferro-silicon .. ..	1,296	1,284	1,087	1,077	1,955	(a)	(a)
Ingots .. ..	7,924	22,625	17,584	21,999	50,969	(a)	(a)
Old and scrap .. ..	1,280	884	1,046	702	1,468	(a)	(a)
Brazil (total imports)—							
Pig-iron, etc. .. ..	835	1,912	14,156	4,792	7,120	7,855	
Ferro-manganese .. ..	350	16	69	52	16	2	
Ferro-silicon .. ..	154	50	582	614	982	712	(a)
Special steel .. ..	—	95	51	222	674	270	
Filings .. ..	—	5	160	61	44	52	
Chile—							
Ingots .. ..	1,452	980	1,773	3,251	970	693	1,116
Ferro-chrome .. ..	64	23	16	11	22		
Ferro-manganese .. ..	1,106	96	222	496	201	(a)	(a)
Ferro-silicon .. ..	179	308	53	194	47		
Old and scrap .. ..	576	543	103	5,207	1,391		
Colombia—							
Pig-iron .. ..	1	111	(a)	3,600	795	(a)	(a)
Scrap .. ..	(a)	(a)	(a)	90	691	(a)	(a)

(a) Information not available.



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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Peru—							
Pig-iron .. .. .	10	1,207	1,742	1,724	1,305	(a)	(a)
Ferro-alloys .. ..	25	102	15	36	42	(a)	(a)
Uruguay—							
Pig-iron .. .. .	(a)	911	2,356	(a)	(a)	(a)	(a)
Ferro-manganese and silicon .. .. .	(a)	180	380	(a)	(a)	(a)	(a)
Iran (b)—							
Ingots, etc., old and scrap	42	3	—	(a)	3,638	6,278	(a)
Japan—							
Pig-iron .. .. .	864,000	980,000	653,000	54,131	1,968	8,276	10,802
Ferro-manganese .. ..	(a)	1,367	1,211	(a)	(a)	(a)	(a)
Ferro-silicon .. .. .	(a)	4,677	3,750	(a)	(a)	(a)	(a)
Steel ingots .. .. .	106,294	175,189	95,468	(a)	(a)	(a)	(a)
Old and scrap .. .. .	38,000	25,000	73,000	984	(a)	124	(a)
Syria and Lebanon—							
Old and scrap .. .. .	68	229	1,221	2,171	651	(a)	(a)
Turkey—							
Iron ingots and blocks ..	}	(a)	1,133	—	—	210	—
Ferro-alloys .. .. .			—	783	405	79	661
Steel ingots and blocks ..			1	1	2	41	1
Old and scrap .. .. .			173	131	8	42	55

(a) Information not available.

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

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

Producing Country	1942	1943	1944	1945	1946	1947	1948				
<b>BRITISH COUNTRIES</b>											
Great Britain .. .. .	5,396	4,167	3,969	2,866	2,763	3,177	2,280				
Nigeria .. .. .	1	—	—	—	—	71	269				
Northern Rhodesia (b) .. .	1,100	1,245	1,030	1,720	8,239	15,640	13,020				
Southern Rhodesia .. .	3	3	296	—	—	—	—				
South West Africa .. .	—	—	—	—	—	(c) 12,400	33,068				
Tanganyika Territory .. .	15	—	7	—	—	—	—				
Uganda .. .. .	—	—	—	—	1	5	10				
Union of South Africa .. .	22	179	129	183	150	131	154				
Canada (d) .. .. .	228,635	198,241	135,974	154,908	158,024	144,346	149,331				
Newfoundland .. .. .	25,006	32,420	29,193	24,920	24,816	20,788	19,745				
Burma .. .. .	(e) 55,158	(a)	(a)	(a)	—	22	(l)				
India (g) .. .. .	600	2	10	20	200	(a)	300				
Australia .. .. .	263,183	206,376	189,485	164,741	183,835	196,623	216,955				
<b>TOTAL (k) .. .. .</b>	<b>579,000</b>	<b>443,000</b>	<b>360,000</b>	<b>349,400</b>	<b>378,000</b>	<b>393,000</b>	<b>435,000</b>				
<b>FOREIGN COUNTRIES</b>											
Austria .. .. .	(a)	(a)	(a)	(a)	1,100	1,619	3,192				
Czechoslovakia (f) .. .	2,300	2,300	2,100	(a)	(a)	(a)	(a)				
Finland .. .. .	137	471	229	87	153	185	71				
France .. .. .	5,682	5,447	4,134	4,775	8,165	7,377	7,420				
<b>Germany</b>											
British Zone .. .. .	} 103,000	} 98,000	} 100,000	{ (g) 15,000	(g) 15,135	(g) 14,523	(g) 21,997				
French Zone (j) .. .								(a)	(g) 140	(g) 1,170	(g) 2,090
Russian Zone .. .. .								(a)	(a)	(a)	(a)
Greece (g) .. .. .	1,500	700	420	540	433	921	(a)				
Italy .. .. .	32,000	19,500	4,000	2,300	13,700	23,600	25,800				
Norway .. .. .	31	112	121	10	26	139	261				
Poland .. .. .	(h)	(h)	(a)	(a)	(b) 10,743	(b) 12,559	(g) 17,000				
Portugal .. .. .	15	26	246	260	369	371	625				
Roumania .. .. .	20	300	300	3,310	3,173	3,440	(a)				
Spain (g) .. .. .	32,000	34,000	32,400	27,900	37,200	30,300	29,600				
Sweden .. .. .	9,344	11,201	15,896	19,780	20,844	20,529	23,207				
U.S.S.R. (smelter) (g) .. .	90,000	100,000	100,000	100,000	120,000	150,000	153,000				
Yugoslavia (g) .. .. .	30,000	30,000	30,000	20,000	40,000	50,000	50,000				
Algeria .. .. .	690	385	1,064	560	860	1,120	1,030				
Belgian Congo .. .. .	1,159	477	624	—	—	659	394				
French Equatorial Africa .. .	2,700	3,400	2,800	3,027	2,800	2,600	2,560				
Morocco (French) .. .. .	6,633	6,806	9,847	10,934	10,862	21,060	27,790				
Morocco (Spanish) (i) .. .	(a)	(a)	(a)	220	200	55	110				
Tunis .. .. .	7,630	2,328	6,053	6,301	8,518	12,224	13,011				
Guatemala (b) .. .. .	117	112	134	113	129	108	(a)				
Honduras .. .. .	(a)	(a)	(a)	(a)	(a)	(a)	125				

(a) Information not available.

(b) Smelter.

(c) Including ore sorted from dumps.

(d) Amount estimated as recoverable.

(e) Nine months ended March 31, 1942.

(f) American Bureau of Metal Statistics.

(g) Estimated.

(h) Included with Germany.

(i) Exports.

(j) Excluding the Saar.

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

(l) Included under Foreign Countries.

PRODUCTION OF LEAD ORE (Cont.)

Producing Country	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Mexico (f) .. .. .	193,907	214,680	182,355	202,072	137,930	219,611	190,264
United States (f) .. .. .	443,071	404,744	372,197	348,956	299,531	343,054	348,639
Argentina .. .. .	26,317	17,424	18,700	(a)	(a)	(a)	(a)
Bolivia (exports) .. .. .	12,284	11,207	8,904	9,358	8,301	11,131	25,205
Chile .. .. .	(a)	(a)	(a)	53	(a)	3,311	6,125
Ecuador .. .. .	—	150	400	(a)	366	170	265
Peru .. .. .	44,172	47,055	51,672	52,816	43,815	53,948	47,771
Burma .. .. .	(d)	(d)	(d)	(d)	(d)	(d)	(c) 7,400
China (c) .. .. .	1,200	600	(a)	(a)	(a)	(a)	(a)
French Indo-China .. .. .	91	246	30	3	—	—	—
Japan .. .. .	18,044	19,741	15,800	4,586	4,182	5,738	6,578
Korea (smelter) .. .. .	(b) 8,102	18,062	15,973	(a)	(a)	(a)	(a)
Manchuria .. .. .	6,158	11,777	(a)	(a)	(a)	(a)	(a)
Saudi Arabia .. .. .	10	—	—	—	—	—	—
TOTAL .. .. .	1,090,000	1,060,000	975,000	855,000	815,000	1,030,000	1,050,000
WORLD'S TOTAL .. .. .	1,670,000	1,500,000	1,334,000	1,202,000	1,193,000	1,423,000	1,485,000

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

METAL PRODUCTION OF LEAD

(Long tons)

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom (b) ..	5,400	4,000	3,500	2,700	2,500	2,800	2,200
Northern Rhodesia ..	1,100	1,245	1,030	1,720	8,239	15,640	13,020
South West Africa ..	—	—	—	—	—	63	80
Canada .. ..	217,238	199,885	127,305	145,628	147,986	144,643	142,879
Burma .. ..	(c) 50,140	—	—	—	—	—	(j)
India .. ..	—	—	—	—	—	230	625
Australia (d) ..	257,284	189,208	154,547	155,852	149,747	187,985	189,662
<b>TOTAL .. ..</b>	<b>531,000</b>	<b>396,000</b>	<b>287,000</b>	<b>305,900</b>	<b>307,800</b>	<b>351,400</b>	<b>348,500</b>
<b>FOREIGN COUNTRIES</b>							
Austria .. ..	4,904	4,815	4,646	(a)	4,403	3,732	7,913
Belgium .. ..	15,984	7,400	7,000	7,743	24,090	39,880	64,992
Czechoslovakia ..	(e)	(e)	(e)	(a)	(a)	(a)	(a)
France .. ..	12,265	12,232	1,893	2,721	31,494	28,757	34,154
Germany .. ..	125,000	156,000	127,000	(a)	(f) 17,916	(f) 23,971	(f) 48,602
Greece .. ..	2,260	1,130	600	700	1,109	1,569	(a)
Italy .. ..	28,320	17,400	2,190	2,785	13,789	17,266	25,327
Poland .. ..	16,053	15,261	15,583	(a)	10,743	12,559	(h) 17,000
Portugal .. ..	(a)	(a)	(a)	(a)	256	316	229
Roumania .. ..	145	277	257	3,310	3,173	3,440	(a)
Spain .. ..	37,884	33,543	30,482	27,507	29,195	31,617	21,708
Sweden .. ..	227	2,257	10,387	12,303	11,046	9,083	6,129
U.S.S.R. (estimated) ..	90,000	100,000	100,000	100,000	120,000	150,000	153,000
Yugoslavia .. ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Tunis .. ..	8,080	1,836	5,250	6,912	7,370	12,391	17,675
Guatemala .. ..	117	112	134	113	129	108	(a)
Mexico .. ..	189,941	209,097	175,454	197,902	165,889	190,489	191,456
United States (g) ..	490,046	419,179	414,882	395,953	301,874	393,703	357,359
Argentina .. ..	20,432	23,535	21,272	20,843	20,682	21,071	21,139
Peru .. ..	37,590	42,954	38,851	40,930	37,484	32,961	34,187
Burma .. ..	(k)	(k)	(k)	(k)	(k)	(k)	7,400
China .. ..	1,116	1,180	636	558	(a)	(a)	(a)
French Indo-China ..	2	16	50	—	—	—	—
Japan (h) .. ..	16,229	20,901	19,848	12,370	4,901	8,232	10,440
Korea .. ..	(i) 8,102	18,062	15,973	(a)	(a)	(a)	(a)
<b>TOTAL .. ..</b>	<b>1,120,000</b>	<b>1,100,000</b>	<b>1,010,000</b>	<b>850,000</b>	<b>820,000</b>	<b>1,000,000</b>	<b>1,040,000</b>
<b>WORLD'S TOTAL ..</b>	<b>1,650,000</b>	<b>1,500,000</b>	<b>1,300,000</b>	<b>1,156,000</b>	<b>1,128,000</b>	<b>1,351,000</b>	<b>1,389,000</b>

(a) Information not available. (b) Estimated. (c) Nine months ended March 31, 1942.

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

Year	Long tons	Year	Long tons
1942 .. ..	50,355	1946 .. ..	12,288
1943 .. ..	8,579	1947 .. ..	29,437
1944 .. ..	—	1948 .. ..	30,165
1945 .. ..	—		

(e) Included with Germany. (f) British zone only. Includes some secondary.

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

Year	Long tons	Year	Long tons
1942 .. ..	288,394	1946 .. ..	350,703
1943 .. ..	305,441	1947 .. ..	457,116
1944 .. ..	295,907	1948 .. ..	446,492
1945 .. ..	324,142		

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

(i) Incomplete. (j) Included under Foreign Countries. (k) Included under British Countries.

EXPORTS OF LEAD, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Ore .. .. .	181	71	44	14	77	—	2
Pig-lead .. .. .	134	333	428	6,217	814	438	714
Sheets and pipes .. .. .	2,725	4,449	2,940	3,956	1,635	1,240	2,093
White lead .. .. .	1,223	2,136	2,157	3,314	2,806	1,076	2,921
Litharge, red lead, etc. .. .	2,863	2,117	2,396	6,436	5,239	2,675	5,684
Northern Rhodesia—							
Pig, bar and ingot .. .. .	(a)	791	588	1,965	6,095	13,662	13,189
South West Africa—							
Copper-lead ore ( <i>Pb content</i> ) .. .. .	(b) 3,954	(b) 7,863	—	—	—	—	27,519
Pig-lead .. .. .	698	—	—	—	—	—	80
Tanganyika Territory—							
Ore .. .. .	20	—	10	—	5	7	—
Union of South Africa—							
Pig, ingot and sheets .. .. .	23	6	6	18	14	(a)	(a)
Canada—							
Ore ( <i>Pb content</i> ) .. .. .	5,294	5,121	8,482	6,995	5,363	6,005	5,006
Pig-lead, etc. .. .. .	188,199	137,810	91,857	95,796	92,955	111,576	92,645
White lead .. .. .	211	92	167	351	366	309	1,015
Newfoundland ( <i>b</i> )—							
Concentrates .. .. .	(c) 41,088	42,561	32,352	39,151	36,518	35,525	37,137
Burma—							
Pig-lead and refined lead	(a)	(a)	(a)	(a)	(d) 1,893	(a)	(a)
India—							
Pig-lead .. .. .	163	5	5	—	—	—	—
Malaya (including re-exports)—							
Pig-lead .. .. .	(a)	(a)	(a)	(a)	67	2,435	1,844
Sheets and pipes .. .. .	(a)	(a)	(a)	(a)	—	1	3
Australia—							
Ores and concentrates ( <i>Pb content</i> ) (c) .. .. .	26,788	19,319	22,577	33,544	8,965	18,554	41,606
Matte ( <i>Pb content</i> ) .. .. .	—	—	15	—	150	2,001	49
Pig-lead .. .. .	267,162	120,105	171,741	87,590	93,136	141,372	116,744
Base bullion .. .. .	—	—	—	—	9,095	30,399	27,843
Scrap .. .. .	(a)	(a)	(a)	(a)	(a)	286	4,646
Sheets and pipes .. .. .	933	270	665	216	264	1,248	457
White lead .. .. .	1,456	1,067	396	191	166	229	348
Irish Republic—							
Ore .. .. .	94	72	31	263	155	100	207
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Pig-lead .. .. .	7,905	5,263	5,397	(a)	(a)	(a)	43,703
Scrap .. .. .				(a)	(a)	(a)	
Sheets, bars, pipes and wire .. .. .	3	47	30	(a)	(a)	(a)	4,230
Red and white lead, etc. .. .	7	67	37	(a)	(a)	(a)	3,540

(a) Information not available.  
 (b) Years ended March 31 following that stated.  
 (c) Nine months ended March 31, 1943.  
 (d) February to September only.  
 (e) Years ended June 30 of year stated.

EXPORTS OF LEAD, ETC. (Cont.)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Bulgaria—							
Ore and concentrates ..	10,772	20,694	9,173	11,183	9,599	11,135	(a)
Pig-lead and scrap ..	61	42	—	—	—	(a)	(a)
Czechoslovakia—							
Ore .. .. .	(a)	(a)	(a)	(a)	—	617	(c) —
Pig-lead, ashes, scrap and alloys .. .. .						69	(c) 303
Red and white lead, etc.						10	(c) —
Denmark—							
Pig-lead, scrap and alloys	213	307	276	17	625	1,091	3,063
France—							
Ore, matte and slag ..	1,529	116	201	—	1,047	1,615	114
Pig-lead, including argen- tiferous and antimonial	2,352	3,068	15	51	38	896	1,433
Scrap .. .. .	1,349	4,400	1,922	—	429	—	40
Sheets, etc. .. .. .	373	63	—	164	289	383	657
Red and white lead, etc.	81	1	—	73	152	322	332
Germany—							
Ore .. .. .	1	—	(b) —	(a)	(a)	(a)	(a)
Pig-lead, alloys and scrap	27,518	14,405	(b) 4,782				
Sheets, pipes, wire, etc.	1,997	1,866	(b) 835				
Red and white lead ..	4,320	3,193	(b) 1,131				
Italy—							
Ore .. .. .	5,378	1,378	(a) —	—	1,378	3,012	6,289
Pig-lead, scrap and alloys	108	3,277	(a) —	—	994	222	24,570
Netherlands—							
Pig-lead .. .. .	8	243	(a)	(a)	1,444	545	1,421
Scrap .. .. .	653	662				491	3,768
Sheets and wire .. .. .	—	—				103	529
Red and white lead ..	—	10				27	105
Norway—							
Ore .. .. .	—	—	320	187	—	196	420
Pig-lead .. .. .	1	—	—	—	201	119	15
Scrap .. .. .	3	2	60	20	608	930	1,598
Portugal—							
Ore .. .. .	—	—	—	—	—	6	198
Pig-lead, etc. .. .. .	5	2	20	3	4	60	15
Red and white lead ..	23	25	25	16	11	656	10
Spain—							
Ore .. .. .	—	1	1,028	6	31	—	1
Pig-lead and scrap ..	9,413	10,968	7,512	1,446	1,374	5,247	8,601
Sheets, wire, etc. ..	940	480	505	336	192	352	424
Sweden—							
Ore .. .. .	8,722	8,086	195	14,216	17,444	18,071	23,237
Pig-lead and scrap ..	244	103	86	1,331	1,674	1,713	422
Sheets and pipes .. .. .	2	5	—	74	131	1	15
Red and white lead, etc.	47	75	—	105	115	40	133
Switzerland—							
Ores, etc. .. .. .	—	—	—	—	14	17	162
Pig-lead, scrap, etc. ..	—	—	—	—	—	11	23
Sheets and pipes .. .. .	—	—	—	—	—	154	13
Algeria—							
Ore .. .. .	1,516	218	832	695	185	2,473	2,342
Pig-lead .. .. .	505	32	10	329	536	1,147	95
Scrap .. .. .							1,324
Red and white lead ..							158
Belgian Congo—							
Ore .. .. .	(a)	(a)	1	13	10	104	—

(a) Information not available.

(b) January to July only.

(c) January to October only.

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

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
French Equatorial Africa—							
Ore .. .. .	11,761	3,644	—	6,909	1,292	13,726	10,012
Morocco (French)—							
Ore, matte and slag ..	11,900	5,502	15,875	11,810	22,243	18,897	8,563
Scrap, etc. .. .. .	4	—	—	—	292	929	(a)
Morocco (Spanish)—							
Ore .. .. .	(a)	(a)	413	243	295	80	(a)
Tunis (including re-exports)							
Ore .. .. .	18	—	—	—	27	28	6
Pig-lead and bars ..	7,464	650	2,253	5,669	6,337	9,793	13,705
Mexico—							
Ores and concentrates ..	6,881	5,661	6,976	1,454	377	8,352	(a)
Pig-lead, refined .. ..	170,370	210,758	160,313	164,472	125,585	176,600	231,762
Base bullion .. .. .	—	1,840	6,194	6,523	37		
Pig-lead, antimonial ..	50	1,733	890	15,951	1,919		
<i>Pb content (b)</i> .. .. .	173,494	196,030	175,497	179,658	165,207		
United States—							
Ore, mattes and base bullion .. .. .	(a)	1,200	—	—	(a)	—	8
Pig-lead, bars, etc. ..	1,732	1,789	13,860	1,256	533	1,351	356
Sheets and pipes .. ..	844	1,556	1,003	1,064	(a)	1,680	849
Red and white lead, etc.	5,035	8,499	7,037	7,600	3,969	2,537	2,018
Argentina—							
Ore .. .. .	1,919	2	—	8,366	—	(a)	(a)
Ingots, bars and sheets	133	56	18	36	1	(a)	(a)
Bolivia—							
Ore, etc. ( <i>Pb content</i> ) ..	12,284	11,207	8,904	9,358	8,301	11,131	25,205
Brazil—							
Ore .. .. .	1	1	—	—	—	(a)	(a)
Chile—							
Ores and concentrates ..	—	—	—	—	—	(a)	(a)
Ecuador—							
Concentrates .. .. .	600	200	650	(a)	(a)	(a)	(a)
Peru—							
Ore and concentrates ( <i>Pb content</i> ) .. .. .	6,180	4,866	10,401	13,149	6,743	12,351	45,623
Pig-lead and scrap ( <i>Pb content</i> ) .. .. .	36,543	20,738	56,463	38,452	36,580	25,997	
Japan—							
Sheets and plates .. ..	45	10	—	—	10,826	4,922	(a)
Tubes .. .. .	18	49	(a)	(a)			

(a) Information not available.

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

IMPORTS OF LEAD, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Ore and concentrates ..	—	2,600	—	—	56	107	219
Pig-lead .. .. .	235,502	226,519	224,889	165,360	153,952	197,149	160,903
Scrap, incl. alloys ..	(a)	(a)	(a)	(a)	2,675	1,729	(a)
Sheets and pipes ..	—	—	—	—	—	1,270	373
White lead .. .. .	2	—	12	—	—	—	2
Litharge, red lead, etc. ..	3	—	—	—	—	—	—
Anglo-Egyptian Sudan—							
Unwrought incl. scrap ..	(a)	32	—	11	13	18	15
White lead .. .. .	(a)	15	—	1	55	145	—
Gambia—							
Sheets, bars, etc. ..	—	1	—	—	—	—	—
Gold Coast—							
Bars, sheets, etc. ..	67	121	96	140	231	380	184
Kenya and Uganda—							
Bars and sheets .. ..	146	53	106	120	31	53	64
Nigeria—							
Bars and sheets .. ..	80	4	59	70	27	156	84
Northern Rhodesia—							
Sheets and foil .. ..	116	—	1	1	1	1	(a)
White lead .. .. .	—	—	—	2	1	—	(a)
Sierra Leone—							
Bars and sheets .. ..	(a)	(a)	12	9	3	6	7
Southern Rhodesia—							
Pig-lead, bars, sheets and foil .. .. .	265	612	215	79	135	159	139
Red and white lead, etc. ..	(a)	(a)	88	(a)	38	90	(a)
South West Africa—							
Bars, sheets and pipes ..	1	1	—	4	4	(a)	(a)
Red and white lead .. ..	1	—	—	1	60	(a)	(a)
Tanganyika Territory—							
Bars, sheets and pipes ..	1	4	1	2	8	6	13
Union of South Africa—							
Pig-lead and bars .. ..	4,569	3,353	4,148	7,763	6,230	(a)	(a)
Sheets and pipes .. ..	470	209	189	—	54	(a)	(a)
Foil .. .. .	229	10	1	6	1	(a)	(a)
Litharge, red and white lead .. .. .	1,610	2,338	1,881	1,968	1,139	(a)	(a)
British West Indies—							
Jamaica—							
Pig-lead, etc. .. ..	(£527)	(£509)	(£185)	(£221)	(£228)	58	30
Trinidad and Tobago—							
Pig-lead .. .. .	88	2	4	14	—	—	(d)
White lead .. .. .	25	12	37	40	125	75	137
Canada—							
Pig-lead and scrap .. ..	10	10	12	24	34	8	67
Bars, sheets and pipes ..	3	4	6	13	7	7	4
White lead, red lead and litharge .. .. .	936	1,316	1,737	1,661	1,126	349	253
Newfoundland (b)—							
Bars, pipes and sheets ..	(c) (£1,558)	(£2,210)	79	87	106	103	39

(a) Information not available.

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

(c) Nine months ended March 31, 1943.

(d) Excess of re-exports.



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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES (Cont.)</b>							
Aden—							
Ore .. .. .	2	—	—	—	1	11	—
Ceylon—							
Pig-lead .. .. .	18	1	15	—	25	11	30
Sheets and pipes .. .. .	14	17	7	10	152	7	23
Tea-lead .. .. .	2,180	3,717	2,423	1,784	54	—	—
Cyprus—							
Sheets and pipes .. .. .	3	6	—	4	19	26	6
Hong Kong (total imports)—							
Bars, sheets, pipes, etc.	(a)	(a)	(a)	(a)	103	68	596
India—							
Ore .. .. .	192	—	6	5	75	808	714
Pig-lead, bars, etc. .. .. .	4,226	—	1	7,821	4,125	5,111	8,534
Sheets, pipes and tubes .. .. .	677	322	14	14,586	554	742	101
Tea-lead .. .. .	87	86	—	—	—	—	—
Lead (government stores)	—	284	1	420	944	—	—
Litharge, red and white lead, etc. .. .. .	451	66	272	17	5	125	5
Malaya (total imports)—							
Pig-lead .. .. .	(a)	(a)	(a)	(a)	232	3	35
Pipes and sheets .. .. .	(a)	(a)	(a)	(a)	23	11	69
Palestine—							
Pig-lead, sheets, pipes, etc. .. .. .	126	106	280	84	145	(a)	(a)
Australia—							
Sheets and pipes	6	6	—	—	—	1	—
White lead and lead acetate .. .. .	86	21	28	11	24	11	16
Fiji—							
Pig-lead and sheet .. .. .	(a)	(a)	16	33	15	19	10
New Zealand—							
Pig-lead and bars .. .. .	3,326	3,667	3,347	2,221	3,330	2,951	3,781
Sheets and pipes .. .. .	57	53	216	376	84	159	105
White lead .. .. .	902	966	649	522	444	102	206
Irish Republic—							
Pig-lead .. .. .	125	125	1,421	140	116	649	524
Sheets and pipes .. .. .	23	83	160	384	166	770	1,423
Red and white lead, etc.	137	357	232	303	460	320	530
<b>FOREIGN COUNTRIES</b>							
Austria—							
Ore .. .. .	(a)	(a)	(a)	(a)	(a)	3,543	3,366
Belgium-Luxemburg E.U.—							
Ore .. .. .	1,406	1,117	795	7,636	28,625	71,319	87,542
Pig-lead .. .. .	} 8,164	} 50	} 118	(a)	(a)	(a)	{ 19,451
Scrap .. .. .							
Sheets, bars, pipes and wire .. .. .							
Red and white lead, etc.	422	188	63	(a)	(a)	(a)	3
Red and white lead, etc.	5	2	—	(a)	(a)	(a)	2,527
Bulgaria—							
Pig-lead and scrap .. .. .	76	112	1	8	1	} (a)	(a)
Tubes, wire, etc. .. .. .	14	19	2	1	—		
Red and white lead, etc.	290	160	19	15	9		

(a) Information not available.

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
<b>Czechoslovakia—</b>							
Ore .. .. .					—	3,620	(c) 3,471
Pig-lead, ashes, scrap and alloys .. . . .					5,943	19,228	(c) 12,625
Sheets, plates, pipes, wire, etc. . . . .	(a)	(a)	(a)	(a)	—	79	(c) 13
Red and white lead, etc. . . . .					77	171	(c) 435
<b>Denmark—</b>							
Pig-lead .. .. .	924	532	98	3,485	6,201	4,162	5,959
Scrap .. .. .	122	248	187	56	1,630	1,119	3,387
Sheets, pipes and wire .. . . .	5	1	1	21	199	93	31
Red and white lead .. . . .	461	526	304	137	983	429	693
<b>Finland (total imports)—</b>							
Pig-lead .. .. .	1,731	1,578	2,307	1,929	2,686	5,300	2,539
Scrap .. .. .	32	—	135	—	—	—	1
Sheets, pipes, wire, etc. . . . .	509	453	157	—	127	732	464
Red and white lead, etc. . . . .	448	247	340	173	168	777	618
<b>France—</b>							
Ore, matte and slag .. . . .	8,056	—	69	20,626	42,088	69,975	51,908
Pig-lead, including argentiferous and antimonial .. . . .	5,321	375	33	19,516	41,231	50,645	39,606
Scrap .. .. .	195	5	2	76	1,110	2,166	3,520
Sheets, etc. . . . .	46	93	5	—	114	255	366
Red and white lead, etc. . . . .	149	39	17	233	168	1,096	1,865
<b>Germany—</b>							
Ore .. .. .	49,617	36,534	(b) 13,738				
Pig-lead, scrap and alloys .. . . .	40,669	30,136	(b) 16,804				
Sheets, pipes, wire, etc. . . . .	681	184	(b) 19	(a)	(a)	(a)	(a)
Red and white lead, etc. . . . .	46	—	(b) 74				
<b>Iceland—</b>							
Pig-lead .. .. .	39	88	54	80	18	(a)	(a)
Red and white lead .. . . .	18	45	20	41	23	(a)	(a)
<b>Italy—</b>							
Ore .. .. .	2,852	—	(a)	—	—	—	53
Pig-lead, scrap and alloys .. . . .	16,417	10,964	(a)	246	276	7,654	10,740
Sheets, pipes, wire and alloys .. . . .	142	(a)	(a)	(a)	(a)	(a)	—
<b>Netherlands—</b>							
Ore .. .. .	—	—			58	1,656	2,071
Pig-lead .. .. .	651	1,494	(a)	(a)	20,953	26,000	20,130
Scrap .. .. .	5	3			104	201	70
Sheets and wire .. . . .	—	8			46	1,238	—
Red and white lead .. . . .	329	190			1,292	3,021	4,095
<b>Norway—</b>							
Pig-lead .. .. .	914	443	217	1,634	5,152	4,101	4,855
Bars and sheets .. . . .	176	65	81	230	677	903	672
Tubes, wire, etc. . . . .	92	55	49	129	344	254	330
Red and white lead .. . . .	188	28	20	365	200	570	507
<b>Portugal—</b>							
Pig-lead, alloys, etc. . . . .	418	1,824	1,409	326	2,816	2,404	2,913
Red and white lead, etc. . . . .	427	484	573	497	662	596	462
<b>Spain—</b>							
Ore .. .. .	49	61	217	315	295	206	8
Pig-lead and scrap .. . . .	16	19	2	84	74	68	125
<b>Sweden—</b>							
Pig-lead .. .. .	6,592	5,011	725	1,369	18,353	17,483	13,458
Scrap .. .. .	223	171	102	136	334	635	247
Sheets and pipes .. . . .	253	94	186	95	1,311	2,066	1,100
Red and white lead .. . . .	1,641	1,180	546	1,677	2,102	2,349	2,478

(a) Information not available.

(b) January to July only.

(c) January to October only.

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Switzerland—							
Ores, etc. . . . .	24	8	7	6	26	1	—
Pig-lead, scrap, etc. . .	6,551	4,526	411	1,158	21,015	13,681	14,977
Sheets, pipes, wire, etc. . .	225	114	34	142	640	650	369
Red and white lead . . .	202	85	32	50	492	180	660
Algeria—							
Ore, matte and slags . . .	32	60	104	81	22	228	3
Pig-lead, bars, sheets, etc.	2,995	350	2,812	1,643	3,209	4,471	4,441
Red and white lead, etc. . .	115	74	81	157	105	128	159
Egypt—							
Pig-lead and scrap . . . .	881	99	81	54	100	81	81
Sheets, pipes, wire, etc. . .	370	20	43	83	151	436	471
Red and white lead . . . .	892	136	295	811	514	45	493
Madagascar—							
Pig-lead, bars and sheets	(a)	20	(a)	120	16	21	104
Red and white lead . . . .	(a)	6	(a)	25	12	12	42
Morocco (French)—							
Pig-lead, sheets and wire	113	83	128	161	121	205	(a)
Mozambique—							
Bars, sheets and wire . . .	25	9	24	11	14	33	21
Tunis—							
Ore, matte and slag . . . .	3,244	—	839	156	1,401	1,566	4,938
Pig-lead, bars and scrap . . .	54	—	403	26	163	30	—
Sheets, etc. . . . .	83	10	14	9	74	—	284
Red and white lead, etc. . .	2	3	—	—	—	—	1
Cuba (total imports)—							
Pig-lead . . . . .	319	266	37	379	(a)	(a)	(a)
Sheets, pipes and wire . . .	20	45	36	39	(a)	(a)	(a)
Mexico—							
Pig-lead . . . . .	34	33	20	31	41	(a)	(a)
Sheets and pipes . . . . .	21	18	147	27	37	(a)	(a)
Red and white lead . . . .	139	93	198	158	182	(a)	(a)
United States—							
Ore, matte and flue dust (Pb content) . . . . .	78,560	80,307	94,012	68,476	25,894	42,540	30,272
Bullion and base bullion (Pb content) . . . . .	43,838	4,083	66	18	72	1,584	9,785
Pig-lead and bars (Pb content) . . . . .	346,154	217,886	198,891	198,492	92,219	141,521	218,648
Scrap (Pb content) . . . . .	1,165	443	2,960	2,543			
Sheets, pipes, wire, etc. . .	18	22	35	16	21	60	161
Red and white lead, etc. . .	6	1	1	17	(a)	421	1,382
Argentina—							
Ore . . . . .	6,766	7,413	6,849	6,069	4,742	(a)	(a)
Pig-lead . . . . .	—	—	3	1	2		
Sheets and plates . . . . .	5	—	—	7	—		
Tubes and wire . . . . .	—	—	—	—	1		
Red and white lead . . . . .	1,015	566	189	536	539		
Brazil (total imports)—							
Pig-lead . . . . .	69	14,031	10,596	14,321	23,466	12,617	(a)
Sheets and pipes . . . . .	18	1	18	53	343	464	(a)
Red and white lead . . . .	442	107	943	505	366	304	(a)
Chile—							
Pig-lead . . . . .	3,816	717	642	790	1,928	(a)	(a)
Bars and sheets . . . . .	368	250	437	176	250	(a)	(a)
Red and white lead . . . .	474	180	100	114	122	(a)	(a)
Colombia—							
Ingots, bars, tubes and alloys . . . . .	374	155	196	548	373	(a)	(a)
Red and white lead . . . .	21	129	47	98	7	(a)	(a)

(a) Information not available.

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Peru—							
Pig-lead, sheets, etc. . .	4	25	2	14	22	(a)	(a)
Red and white lead . . .	35	55	58	76	63	(a)	(a)
Uruguay—							
Pig-lead . . . . .	(a)	353	938	(a)	(a)	(a)	(a)
Red and white lead, etc.	(a)	124	166	(a)	(a)	(a)	(a)
Venezuela—							
Pig-lead . . . . .	56	32	(a)	638	187	78	(a)
Red and white lead . . .	65	78	(a)	50	75	84	(a)
China—							
Pig-lead . . . . .	} (a)	(a)	(a)	(a)	{ 593	1,011	(a)
Scrap . . . . .							
Red and white lead, etc.							
Iran (total imports) (b)—							
Ingots, sheets and wire	50	12	(a)	(a)	565	152	(a)
Japan—							
Ore . . . . .	(a)	(a)	(a)	(a)	(a)	503	(a)
Pig-lead . . . . .	709	3,130	2,545	179	(a)	(a)	2,783
Syria and Lebanon—							
Ingots and sheets . . .	6	52	13	119	215	} (a)	(a)
Pipes . . . . .	—	—	12	15	51		
Red and white lead . . .	31	56	45	72	180		
Turkey—							
Pig-lead and bars . . .	(a)	(a)	27	899	1,350	886	623
Tubes and wire . . . .	(a)	(a)	(a)	51	47	136	23
Red and white lead . . .	(a)	(a)	142	561	295	214	329

(a) Information not available.

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

# MAGNESITE

## PRODUCTION OF MAGNESITE

(Long tons)

Producing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
Kenya—							
Crude .. .. .	—	—	44	14	60	40	—
Southern Rhodesia—							
Crude .. .. .	2,746	5,342	5,044	4,211	3,763	5,238	5,632
Union of South Africa—							
Crude .. .. .	16,421	12,494	5,347	6,967	6,893	8,282	10,492
Canada—							
Calcined Magnesitic Dolomite (b) .. .. .	£238,062	£283,159	£256,018	£287,325	£289,055	£289,723	£393,972
Cyprus (exports)—							
Crude .. .. .	—	—	142	283	3	30	1
India—							
Crude .. .. .	47,780	49,070	41,936	28,338	44,677	51,536	48,327
Australia—							
Crude .. .. .	34,941	64,860	31,705	23,082	22,033	36,811	32,442
New Zealand—							
Crude .. .. .	—	171	103	111	374	362	540
<b>FOREIGN COUNTRIES</b>							
Austria—							
Crude .. .. .	455,709	451,499	443,810	(a)	90,197	218,289	394,801
Caustic (c) .. .. .	34,473	33,351	28,571	(a)	23,668	30,447	52,675
Dead-burnt (e) .. .. .	120,773	133,468	132,561	(a)	24,247	74,629	125,238
Bricks (c) .. .. .	71,446	74,984	81,392	(a)	26,727	56,859	89,417
Germany (Prussia)—							
Crude .. .. .	25,006	(a)	(a)	(a)	(a)	(a)	(a)
Greece—							
Crude .. .. .	2,850	670	930	1,630	715	21,447	(a)
Calcined (c) .. .. .	—	—	130	620	—	7,987	(a)
Italy—							
Crude .. .. .	13,470	5,580	1,466	486	603	1,644	986
Norway—							
Crude .. .. .	2,427	2,025	1,529	1,717	1,155	1,683	1,712
Calcined (c) .. .. .	783	1,114	500	582	458	647	979
Bricks (c) .. .. .	256	244	279	405	331	209	170
Spain .. .. .	2,031	3,567	5,185	7,500	10,594	5,309	9,741
Egypt .. .. .	—	10	49	49	—	—	—
Cuba—							
Crude .. .. .	274	2,631	41	(a)	(a)	(a)	(a)
Mexico (exports)—							
Crude and calcined .. .. .	—	1	—	—	4,545	(a)	(a)
United States—							
Crude .. .. .	444,079	673,957	501,295	300,412	289,860	335,708	(a)
Caustic (sales) (c) .. .. .	36,401	171,243	124,323	38,634	40,338	23,956	29,651
Dead-burnt (sales) (c) .. .. .	244,340	269,091	248,651	227,676	218,595	281,179	294,704
Venezuela—							
Crude .. .. .	(a)	580	689	5,500	2,707	2,933	1,870
Calcined .. .. .	(a)	249	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

(b) Including brucite.

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

PRODUCTION OF MAGNESITE (Cont.)

Producing Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Korea—							
Crude .. .. .	105,658	106,756	155,254	(a)	(a)	(a)	(a)
Turkey—							
Crude .. .. .	113	135	784	758	} 98	846	3,353
Calcined .. .. .	(a)	(a)	(a)	136			

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

(a) Information not available.

**EXPORTS OF MAGNESITE, ETC.**  
(Domestic Produce)  
(Long tons)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948	
<b>BRITISH COUNTRIES</b>								
United Kingdom—								
Magnesium and alloys ..	29	—	8	7	371	104	277	
Magnesium compounds	4,329	2,758	2,916	3,999	9,663	8,834	9,947	
Southern Rhodesia—								
Crude and calcined ..	2,606	4,730	4,072	3,851	4,444	4,973	5,552	
Union of South Africa—								
Crude and calcined ..	5,910	3,085	—	—	—	54	—	
Canada—								
Calcined and dead-burnt	480	354	6,956	—	—	—	—	
Cyprus—								
Crude .. .. .	—	2	141	283	3	30	1	
India—								
Magnesite .. .. .	12,595	13,005	10,471	3,141	6,662	17,025	14,171	
Chloride .. .. .	788	705	(a)	151	1,921	3,928	2,167	
Australia—								
Carbonate .. .. .	—	—	—	—	—	39	354	
Other compounds ..	(b) —	(b) 6	(b) 3	(b) 4	50	34	31	
<b>FOREIGN COUNTRIES</b>								
Austria—								
Crude .. .. .	(a)	(a)	(a)	(a)	(a)	{	—	
Caustic .. .. .							133	
Dead-burnt .. .. .							7,817	
Bricks .. .. .							30,332	
Bricks .. .. .						44,799	67,490	
Belgium-Luxemburg E.U.—								
Crude .. .. .	—	—	1	(a)	(a)	(a)	1,040	
Calcined .. .. .	—	25	—				2	
Carbonate .. .. .	—	—	—				14	
Chloride .. .. .	20	—	—				17	
Sulphate .. .. .	5	58	—				144	
Czechoslovakia—								
Crude .. .. .	(a)	(a)	(a)	(a)	{	232	(c) —	
Calcined .. .. .						8,086	29,894	
Bricks .. .. .						2,843	8,625	(c) 12,784
Chloride, oxide and sulphate .. .. .						—	10	(c) —
France—								
Magnesium .. .. .	(a)	1,143	341	—	10	6	2	
Magnesium compounds	685	262	411	558	5,110	10,044	10,595	
Germany—								
Calcined .. .. .	23,164	28,778	(d) 12,150	(a)	(a)	(a)	(a)	
Carbonate, oxide, etc. ..	369	730	(d) 449					
Chloride .. .. .	11,688	10,184	(d) 3,552					
Sulphate .. .. .	15,966	34,012	(d) 16,287					
Greece—								
Crude .. .. .	(a)	(a)	(a)	{	—	—	42	
Caustic .. .. .							3,051	
Dead-burnt .. .. .							310	
Italy—								
Magnesium metal ..	641	184	(a)	(a)	—	1,700	(a)	
Crude .. .. .	33	(e) 40	(a)	(a)	(a)	6	282	
Netherlands—								
Calcined .. .. .	—	15	(a)	(a)	2,229	7,334	9,456	

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

EXPORTS OF MAGNESITE, ETC. (Cont.)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Norway—							
Crude .. .. .	76	30	—	25	9	26	—
Bricks .. .. .	292	248	197	412	274	158	165
Sweden—							
Crude and calcined ..	—	—	—	—	45	72	46
Cuba—							
Crude .. .. .	274	2,631	41	—	—	—	(a)
Mexico—							
Crude and calcined ..	—	1	—	—	4,545	(a)	(a)
United States—							
Magnesium metal ..	3,612	31,813	18,751	588	185	281	245
Oxide and manufactures	1,165	7,598	1,131	8,153	15,556	(a)	(a)
Bricks, etc. .. .. .	13,821	12,943	11,153	8,256	11,832	11,538	8,943
Peru—							
Sulphate .. .. .	386	239	639	694	427	(a)	(a)
Korea—							
Crude and calcined ..	33,038	29,599	38,524	(a)	(a)	(a)	(a)
Turkey—							
Crude .. .. .	(a)	(a)	—	—	—	—	1,966
Calcined .. .. .	(a)	(a)	26	—	—	—	—

(a) Information not available.



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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Crude and calcined ..	28,558	55,927	22,514	3,189	1,427	28,961	34,603
Magnesium and alloys ..	3,098	33,585	20,357	1,084	—	—	(a)
Chloride .. .. .	990	401	552	109	898	3,368	7,068
Other salts .. .. .	1	1	—	—	6	(d) 8	461
Union of South Africa—							
Carbonate and sulphate	2,690	5,333	5,601	4,669	3,824	(a)	(a)
Chloride .. .. .	36	67	34	16	234	(a)	(a)
Canada—							
Crude and calcined ..	5,783	7,686	(b) 6,956	(b) 4,007	(b) 4,429	(b) 8,338	(b) 6,887
Carbonate .. .. .	258	384	286	258	331	488	620
Oxide .. .. .	622	848	1,230	330	616	378	441
Sulphate .. .. .	1,507	2,917	2,396	2,272	3,092	2,596	2,497
Bricks .. .. .	(£264,048)	(£249,832)	(£161,456)	(£68,571)	(£102,200)	(£115,395)	(£107,052)
India—							
Chloride .. .. .	5	—	—	—	—	2	1
Sulphate .. .. .	20	17	48	21	27	61	1
Other salts .. .. .	535	233	433	205	781	300	503
Palestine—							
Sulphate .. .. .	127	—	—	—	184	(a)	(a)
Australia—							
Oxide .. .. .	37	36	141	33	33	22	66
Carbonate .. .. .	167	146	159	120	149	152	307
Chloride .. .. .	61	38	4	31	21	139	207
Sulphate .. .. .	302	227	187	183	300	905	108
New Zealand—							
Sulphate .. .. .	449	496	336	229	369	414	328
Irish Republic—							
Magnesium salts ..	320	249	275	221	447	400	348
FOREIGN COUNTRIES							
Austria—							
Sulphate .. .. .	(a)	(a)	(a)	(a)	(a)	3,774	7,457
Chloride .. .. .	(a)	(a)	(a)	(a)	(a)	223	1,307
Belgium-Luxemburg E.U.—							
Crude .. .. .	20	178	5	(a)	(a)	(a)	1,893
Calcined .. .. .	790	1,691	628				
Magnesium .. .. .	1	—	1				
Carbonate .. .. .	21	63	33				
Chloride .. .. .	263	404	125				
Sulphate .. .. .	2,680	1,120	311				478
Total .. .. .							1,457
Bulgaria—							
Crude .. .. .	163	82	32	—	4	(a)	(a)
Sulphate .. .. .	201	158	30	15	28	(a)	(a)
Czechoslovakia—							
Calcined .. .. .	(a)	(a)	(a)	(a)	437	1,232	(c) 757
Bricks .. .. .					311	6,601	(c) 2,437
Chloride .. .. .					255	1,538	(c) 1,461
Oxide, impure .. .. .					60	178	(c) 471
Sulphate .. .. .					65	1,587	(c) —
Denmark—							
Crude .. .. .	435	589	824	458	1,134	2,123	2,662
Chloride .. .. .	718	418	734	291	972	1,859	1,857
Oxide .. .. .	65	79	59	6	172	212	444
Sulphate .. .. .	341	312	264	149	379	293	447

(a) Information not available.

(b) Calcined and dead-burnt only.

(c) January to October only.

(d) Excess of re-exports.

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
<b>Finland (total imports)—</b>							
Magnesite .. ..	203	592	452	—	701	695	1,357
Calcined .. ..	13	8	6	3	27	23	12
Carbonate .. ..	26	95	89	19	46	96	162
Chloride .. ..	349	193	177	30	317	539	678
Sulphate .. ..	27	66	65	—	36	109	77
<b>France—</b>							
Crude .. ..	895	5,436	2,786	482	2,018	2,987	(a)
Calcined .. ..	6,713	7,707	3,040	1,459	1,989	13,269	17,306
Magnesium .. ..	59	110	67	2	55	34	15
Carbonate .. ..	59	63	14	5	263	578	303
Chloride .. ..	397	490	101	1	1	46	1
Sulphate .. ..	946	6,678	80	69	474	—	—
<b>Germany—</b>							
Crude .. ..	12,599	17,129	(b) 839	} (a)	(a)	(a)	(a)
Caustic .. ..	3,030	5,516	(b) 1,996				
Dead-burnt .. ..	37,455	39,020	(b) 23,706				
<b>Hungary—</b>							
Crude and calcined ..	(a)	(a)	(a)	(a)	4,425	13,458	(a)
<b>Italy—</b>							
Magnesium metal ..	33	62	(a)	(a)	—	475	(a)
Crude .. ..	1,298	(c) 1,874	—	(a)	(a)	2,064	1,941
<b>Netherlands—</b>							
Crude .. ..	543	616	} (a)	(a)	{ 302	1,183	558
Calcined .. ..	913	3,523					
Sulphate .. ..	7,860	11,119					
<b>Norway—</b>							
Calcined .. ..	325	1,010	452	327	568	1,278	2,058
Bricks .. ..	39	21	18	—	—	—	—
Chloride .. ..	553	419	210	67	809	562	919
<b>Portugal—</b>							
Crude and calcined ..	(a)	(a)	(a)	79	104	89	87
Carbonate .. ..	227	93	84	46	75	68	163
Chloride .. ..	24	20	—	29	27	32	50
Oxide .. ..	8	11	1	6	5	12	5
Sulphate .. ..	557	319	326	700	1,018	443	804
<b>Sweden—</b>							
Crude and calcined ..	1,349	1,439	1,654	1,133	3,174	2,727	2,720
Bricks .. ..	7,003	5,255	5,052	1,805	8,260	7,508	10,402
Chloride .. ..	1,030	1,452	867	302	1,359	1,493	1,729
<b>Switzerland—</b>							
Calcined .. ..	581	630	1,152	167	—	—	—
<b>Algeria—</b>							
Calcined .. ..	—	3	1	14	2	2	8
<b>Belgian Congo—</b>							
Calcined .. ..	(a)	—	121	85	(a)	(a)	(a)
Sulphate .. ..	(a)	590	403	585	(a)	(a)	(a)
<b>Egypt—</b>							
Sulphate .. ..	77	21	14	148	888	343	393
<b>Cuba (total imports)—</b>							
Calcined .. ..	73	11	45	201	(a)	(a)	(a)
Carbonate .. ..	18	58	129	97	(a)	(a)	(a)
<b>Mexico—</b>							
Crude .. ..	47	44	39	14	15	(a)	(a)
Calcined .. ..	34	23	12	20	23	(a)	(a)
Sulphate .. ..	205	348	233	210	164	(a)	(a)

(a) Information not available.

(b) January to July only.

(c) January to June only.

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
<b>United States—</b>							
Magnesium metal ..	—	—	24	49	215	180	605
Crude .. ..	—	—	927	—	1	—	86
Calcined .. ..	516	259	499	397	394	470	823
Dead-burnt .. ..	6,900	8,244	5,604	4,916	1,672	1,560	2,716
Oxide .. ..	14	—	27	—	(a)	—	(a)
Carbonate, precipitated	572	109	135	59	(a)	122	252
Chloride .. ..	166	—	—	1	(a)	2	5
Sulphate .. ..	—	21	20	—	(a)	—	(a)
<b>Argentina—</b>							
Carbonate .. ..	222	147	77	170	149	} (a)	(a)
Chloride .. ..	105	22	—	—	102		
Oxide .. ..	6	4	1	6	8		
Sulphate and chlorate ..	20	8	—	10	20		
<b>Brazil (total imports)—</b>							
Oxide .. ..	26	19	91	191	38	55	(a)
Sulphate .. ..	27	262	267	292	198	401	(a)
<b>Chile—</b>							
Crude .. ..	20	28	11	95	16	} (a)	(a)
Calcined .. ..	1,532	—	756	1,065	1,005		
Chloride .. ..	2	6	2	4	8		
Carbonate, oxide, etc. ..	9	4	2	4	7		
Sulphate .. ..	2	206	1,105	825	500		
<b>Colombia—</b>							
Calcined .. ..	39	28	13	24	36	} (a)	(a)
Carbonate .. ..	22	15	(a)	17	4		
Chloride .. ..	1	1	(a)	1	4		
Sulphate .. ..	94	192	144	170	71		
<b>Peru—</b>							
Oxide and carbonate ..	18	557	21	678	412	(a)	(a)
Salts .. ..	7	46	48	15	30	(a)	(a)
<b>Venezuela—</b>							
Sulphate .. ..	84	160	—	57	119	114	(a)
<b>Japan—</b>							
Crude and calcined ..	(a)	(a)	(a)	(a)	4,023	4,024	21,726
<b>Syria and Lebanon—</b>							
Ground and calcined ..	3	—	—	9	—	} (a)	(a)
Chloride .. ..	—	—	8	15	10		
Oxide .. ..	—	23	2	10	4		
Sulphate .. ..	11	19	6	71	194		
<b>Turkey—</b>							
Calcined .. ..	} (a)	(a)	{	5	—	—	5
Carbonate, chloride, etc.				94	31	24	170
Oxide .. ..				5	5	11	6
Sulphate .. ..				1	1	90	30

(a) Information not available.

# MANGANESE

## PRODUCTION OF MANGANESE ORE

(Long tons)

Producing Country	Estimated Manganese Content							
	1942	1943	1944	1945	1946	1947	1948	
<b>BRITISH COUNTRIES</b>								
Great Britain (b) ..	10,432	20,333	17,607	11,299	—	—	3,130	—
Gold Coast (exports) ..	483,573	423,393	504,458	701,750	765,300	588,919	252,000	306,000
Northern Rhodesia ..	6,113	4,711	5,046	1,934	1,398	—	(a)	(a)
Southern Rhodesia ..	—	—	—	—	—	—	—	—
Union of South Africa ..	388,217	215,662	105,196	112,737	234,141	283,662	168,000	123,000
Canada (sales) ..	388	43	—	—	(a)	201	(a)	(a)
Burma ..	(c) 750	(c) 750	(c) 750	(c) 750	(a)	(a)	(a)	(a)
India ..	757,269	595,347	370,980	210,583	252,916	451,035	379,000	124,000
Malaya ..	(c) 2,500	(c) 2,500	(c) 2,500	(c) 2,500	—	—	(a)	(a)
Malaysia ..	(c) 2,500	(c) 2,500	(c) 2,500	(c) 2,500	—	—	(a)	(a)
Australia ..	10,257	6,250	1,970	984	1,385	1,776	(a)	(a)
New Zealand ..	321	510	—	—	402	330	180	162
Papua ..	346	359	173	170	44	116	220	(a)
<b>TOTAL .. ..</b>	<b>1,660,000</b>	<b>1,269,000</b>	<b>1,009,000</b>	<b>1,042,000</b>	<b>1,256,000</b>	<b>1,326,000</b>	<b>1,377,000</b>	<b>—</b>
<b>FOREIGN COUNTRIES</b>								
France ..	(a) 1,309	1,309	1,913	1,963	1,737	871	(a)	474
Greece ..	420	290	—	—	15	—	(a)	—
Hungary (d) ..	31,380	33,050	(e) 20,720	(e) 6,500	16,670	110,536	12,600	8,300
Italy ..	59,213	44,400	23,500	3,200	7,794	26,392	15,000	5,800
Portugal ..	6,220	12,412	9,065	7,479	5,831	2,405	2,600	3,700
Roumania ..	29,000	37,600	(a)	(a)	(a)	(a)	9,000	(a)
Roumania ..	20,932	25,737	29,946	24,495	29,125	22,074	(a)	(a)
Spain ..	23,859	26,281	23,893	17,751	12,395	10,528	3,600	5,600
Sweden ..	(a)	(a)	(a)	2,000,000	2,500,000	2,500,000	(a)	(a)
U.S.S.R. (estimated) ..	—	3,937	1,968	(a)	1,870	690	—	(a)
Angola ..	28,527	17,137	2,936	—	—	8,384	14,200	1,000
Belgian Congo ..	8,040	6,967	30	46	26	29	8,700	300
Egypt (f) ..	—	—	—	—	—	—	2,100	4,200
<b>TOTAL .. ..</b>	<b>1,660,000</b>	<b>1,269,000</b>	<b>1,009,000</b>	<b>1,042,000</b>	<b>1,256,000</b>	<b>1,326,000</b>	<b>1,377,000</b>	<b>—</b>

(a) U.S. Bureau of Mines.

(b) June to December only.

(c) Average annual production during Japanese occupation.

(d) Information not available.

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

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

(g) Incomplete.

PRODUCTION OF MANGANESE ORE (Cont.)

Producing Country	Estimated Manganese Content													
	1942	1943	1944	1945	1946	1947	1948	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>														
Morocco (French) .. .. .	43,580	48,142	27,112	43,960	57,074	107,688	211,000	18,400	20,400	15,500	16,900	21,400	48,600	103,300
Morocco (Spanish) .. .	—	—	—	—	—	—	500	—	—	—	—	—	—	220
Tunis .. .	120	—	300	—	—	—	—	40	—	100	—	—	—	—
Cuba (b) .. .	245,318	306,299	253,792	195,112	128,048	47,909	28,613	110,000	136,000	114,000	88,000	58,000	22,000	13,000
Mexico .. .	26,000	53,000	67,000	42,000	26,000	33,000	50,300	11,312	22,584	28,611	18,249	11,163	13,958	23,635
United States (c) .. .	170,311	183,190	221,086	162,803	128,246	117,524	117,034	90,800	97,700	117,500	92,300	75,000	68,900	67,500
Argentina .. .	1,402	1,619	3,105	4,205	(a)	(a)	(a)	550	640	(a)	(a)	(a)	(a)	(a)
Bolivia (d) .. .	590	16	—	—	—	—	—	268	8	—	—	—	—	—
Brazil .. .	349,316	251,706	233,506	243,937	169,543	166,237	161,412	157,000	113,000	105,000	110,000	76,000	75,000	72,000
Chile .. .	70,167	104,420	71,325	40,940	20,125	20,015	20,174	31,700	46,900	33,100	18,800	9,500	10,400	10,000
French Indo-China .. .	1,420	(e) 7,000	(e) 7,000	—	—	—	—	630	610	3,400	—	—	—	—
Japan .. .	f 250,238	f 337,469	f 394,351	f 157,122	f 27,951	32,670	54,081	88,000	110,000	129,000	(a)	(a)	(a)	21,300
Korea .. .	531	12,550	23,898	33,054	(g)	(g)	(g)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Netherlands East Indies .. .	(g) 7,000	(g) 7,000	(g) 7,000	(g) 7,000	(a)	(a)	(a)	3,500	3,500	3,500	3,500	—	—	—
Philippine Republic .. .	(a)	(a)	(a)	(a)	(a)	3,322	25,161	(a)	(a)	(a)	(a)	—	1,600	12,100
Portuguese India .. .	(a)	(a)	(a)	(a)	(a)	(a)	6,400	(a)	(a)	(a)	(a)	(a)	(a)	3,100
Turkey .. .	3,261	821	1,939	5,015	1,675	4,560	8,195	1,400	360	800	1,800	600	1,600	3,000
TOTAL .. .	3,200,000	2,500,000	2,300,000	2,970,000	3,140,000	3,210,000	3,600,000	—	—	—	—	—	—	—
World's Total .. .	4,900,000	3,800,000	3,300,000	4,010,000	4,400,000	4,540,000	5,000,000	—	—	—	—	—	—	—

Manganese ore is also produced in Yugoslavia and China.

(a) Information not available.

(b) Concentrates.

(c) Shipments. Excluding the following quantities of ore containing 10 to 35% Mn, which are included with iron ore (long tons):—1942—237,199; 1943—418,627, 1944—265,162; 1945—102,078; 1946—89,654; 1947—114,788; 1948—126,823.

(d) Exports.

(e) Estimated.

(f) Years ended March 31 of that following.

(g) Average annual production during Japanese occupation.

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

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Metal .. .. .	73	40	27	33	200	191	593
Ferro-manganese and spiegeleisen .. ..	3,617	797	150	31,729	58,636	9,069	3,236
Gold Coast—							
Ore .. .. .	483,573	423,393	504,458	701,750	765,300	588,919	629,973
Union of South Africa—							
Ore .. .. .	179,751	76,160	9,948	132,706	316,351	332,577	318,254
Canada—							
Spiegeleisen .. ..	2,100	2,904	3,356	3,004	792	747	645
Ferro-manganese	(a)	(a)	(a)	(a)	29,005	65,554	66,517
Cyprus—							
Ore .. .. .	—	2	5	—	—	—	—
Hong Kong (re-exports)—							
Ore .. .. .	(a)	(a)	(a)	—	15	—	28
India—							
Ore (b) .. .. .	599,254	712,424	151,621	171,276	434,600	539,457	330,127
Ferruginous manganese ore .. .. .	—	2,500	—	—	—	—	—
Ferro-manganese ..	1	4,133	703	—	10,900	—	—
Malaya (c)—							
Ore .. .. .	(d) 22,410	(d) 7,714	(d) 394	(a)	(a)	—	—
Australia—							
Ore .. .. .	—	—	—	116	87	5	5
New Zealand—							
Ore .. .. .	(a)	(a)	475	—	410	—	488
FOREIGN COUNTRIES							
France—							
Ore .. .. .	30	39	—	—	799	421	861
Manganese dioxide ..	—	—	—	—	—	31	—
Ferro-manganese ..	141	537	1,235	17	334	951	102
Germany—							
Ore .. .. .	3,781	8,545	(e) 677	(a)	(a)	(a)	(a)
Ferro-manganese ..	9,650	8,367	(e) 5,563	(a)	(a)	(a)	(a)
Italy—							
Ore, including mangani- ferrous iron ore ..	—	2,362	(a)	—	—	—	1
Ferro-manganese ..	1	1	(a)	—	—	—	25
Netherlands—							
Ore .. .. .	1,913	—	(a)	(a)	233	839	2,134
Norway—							
Ferro-manganese ..	1,550	299	1,225	162	13,178	31,761	58,133
Ferro-silico-manganese	5,936	3,792	7,671	729	2,258	3,817	9,411
Portugal—							
Ore .. .. .	2,824	9,238	3,831	3,869	1,415	3,231	146
Sweden—							
Ore .. .. .	186	217	223	11	296	509	335
Ferro-manganese ..	10	29	—	271	287	1,326	117
Spiegeleisen .. ..	22	—	—	—	107	114	—
Ferro-silico-manganese	108	46	—	380	48	53	20

(a) Information not available.

(b) Excluding manganese ore mined in British India but exported via the Portuguese port of Mormugao—1942, 950 tons; 1943, Nil; 1944, Nil; 1945, Nil; 1946, 44,847 tons; 1947, 58,220 tons; 1948—(a)

(c) Including re-exports.

(d) Imports into Japan from Malaya.

(e) January to July only.

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

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
U.S.S.R.—							
Ore .. .. .	(b)	(b)	(b)	(b)	(b)	(b)	(b)
Angola—							
Ore .. .. .	—	2,067	1,870	3,937	—	—	(a)
Belgian Congo—							
Ore .. .. .	13,488	12,680	4,344	9,948	14,482	10,947	15,600
Egypt—							
Ore .. .. .	(a)	5,220	64	—	—	(a)	(a)
Morocco (French)—							
Ore .. .. .	27,122	6,587	2,046	26,936	62,103	95,468	205,010
Tunis—							
Ore .. .. .	—	—	—	—	—	241	—
Cuba—							
Ore .. .. .	140,170	203,104	409,553	277,303	140,619	(a)	(a)
Mexico—							
Ore .. .. .	25,538	48,336	79,802	39,737	23,021	52,707	56,500
<i>Mn content</i> .. .. .	11,311	22,625	27,964	18,269	11,163	(a)	(a)
United States—							
Ore .. .. .	3,881	3,792	4,686	4,770	(a)	7,164	8,245
Ferro-manganese and spiegeleisen .. .. .	6,450	11,449	715	2,883	9,342	18,280	7,530
Bolivia—							
Ore .. .. .	590	16	—	—	—	—	—
<i>Mn content</i> .. .. .	268	8	—	—	—	—	—
Brazil—							
Ore .. .. .	301,404	271,200	144,622	240,785	149,793	139,848	139,022
Chile—							
Ore .. .. .	9,530	—	4,022	87,937	166,374	26,180	16,140
Peru—							
Ore .. .. .	187	—	—	—	—	—	(a)
China—							
Ore .. .. .	(c) 11,527	(c) 10,310	(c) 9,724	(a)	2	—	395
French Indo China—							
Ore .. .. .	—	1,983	—	(a)	(a)	(a)	(a)
Japan—							
Ore .. .. .	(d) 1,100	(d) 1,000	(d) 1,000	(a)	(a)	(a)	(a)
Ferro-manganese .. .. .	418	49	177	(a)	(a)	(a)	(a)
Silico-manganese .. .. .	1,772	835	472	(a)	(a)	(a)	(a)
Netherlands East Indies—							
Ore .. .. .	(c) 8,822	(c) 30,890	(c) 12,681	(a)	(a)	(a)	(a)
Philippine Republic—							
Ore .. .. .	(c) 12,152	(c) 33,575	(c) 14,457	(a)	(a)	(a)	(a)
Portuguese India—							
Ore .. .. .	—	—	—	—	—	99	(a)
Turkey—							
Ore .. .. .	(a)	(a)	(a)	—	—	30	—

(a) Information not available.

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

	1942	1943	1944	1945	1946	1947	1948
Germany .. .. .	294,945	(a)	(a)	(a)	(a)	(a)	(a)
Netherlands .. .. .	—	—	—	(a)	(a)	(a)	517
Norway .. .. .	—	1,951	7,033	—	—	9,881	4,908
Sweden .. .. .	—	—	—	—	—	5,890	11,954
United States .. .. .	15,865	4,065	—	135,129	216,000	258,014	162,906

(c) Imports into Japan from the country indicated.

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

## IMPORTS OF MANGANESE ORE, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Ore .. .. .	421,204	444,582	315,251	314,834	193,178	268,057	395,777
Metal .. .. .	533	245	—	—	—	—	—
Ferro-manganese and spiegeleisen .. .. .	2,705	3,888	84	(b) 25	150	1,685	—
Ferro-silico-manganese	7,715	11,837	8,670	10,887	7,325	9,014	11,057
Union of South Africa—							
Ferro-manganese .. .. .	100	162	—	126	5	(a)	(a)
Manganese dioxide .. .. .	496	183	517	558	565	(a)	(a)
Canada—							
Ore .. .. .	51,240	45,745	76,602	177,033	128,592	199,556	205,623
Ferro-manganese and spiegeleisen .. .. .	3,172	14,667	77	186	1,007	487	484
Hong Kong (total imports)							
Ore .. .. .	(a)	(a)	(a)	(a)	99	90	107
Malaya (total imports)—							
Ore .. .. .	(a)	(a)	(a)	(a)	(a)	45	528
Australia—							
Ore .. .. .	1,526	20,100	241	535	453	4,944	1,439
Ferro-manganese .. .. .	(a)	(a)	(a)	(a)	739	144	64
FOREIGN COUNTRIES							
Austria—							
Ore .. .. .	(a)	(a)	(a)	(a)	(a)	—	8,346
Belgium-Luxemburg E.U.—							
Ore .. .. .	478	5,614	429	25,258	58,117	78,737	(a)
Czechoslovakia—							
Ore .. .. .	(a)	(a)	(a)	(a)	4,042	7,783	(d) 70,448
Denmark—							
Ore (c) .. .. .	467	112	97	451	1,135	257	896
Finland (total imports)—							
Ferro-manganese and spiegeleisen .. .. .	858	1,908	888	471	904	1,963	2,836
France—							
Ore .. .. .	33,003	82	30	38,601	88,416	161,176	233,937
Ferro-manganese .. .. .	39	356	1,109	1,987	11,930	11,905	245
Manganese dioxide .. .. .	10	10	(a)	1,723	—	5,943	—
Germany—							
Ore .. .. .	337,751	376,751	(e) 59,217	(a)	(a)	(a)	3,953
Ferro-manganese .. .. .	13,159	654	(e) 252	(a)	(a)	(a)	(a)
Italy—							
Ore, including mangani- ferous iron ore .. .. .	29,967	24,704	(a)	—	7,135	40,840	49,789
Spiegeleisen .. .. .	—	—	(a)	—	—	197	58
Ferro-manganese .. .. .	475	54	(a)	—	1,066	232	4,719
Ferro-silico-manganese	—	2	(a)	—	—	—	101
Netherlands—							
Ore .. .. .	506	117	(a)	(a)	3,040	18,249	5,052
Norway—							
Ore .. .. .	16,507	14,558	32,224	10,415	47,294	102,706	131,878
Spain—							
Ore .. .. .	1,723	3,769	6,551	7,799	855	3,693	(a)
Ferro-manganese .. .. .	295	15	—	5	1	11	36

(a) Information not available.

(b) Excess of re-exports.

(c) Chemical grade.

(d) January to October only.

(e) January to July only.



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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Sweden—							
Ore (chemical grade) ..	456	304	684	402	285	732	814
do. (metallurgical grade)	290	—	—	3,978	21,271	18,807	14,964
Ferro-manganese ..	13	17	10	1,952	5,362	583	2,073
Spiegeleisen .. ..	—	—	—	1,100	6,257	607	—
Ferro-silico-manganese	227	101	126	380	420	399	453
Algeria—							
Ore .. .. .	8	50	—	—	—	79	2
Mexico—							
Ferro-manganese ..	164	721	308	790	474	(a)	(a)
United States—							
Ore .. .. .	1,419,795	1,359,622	1,174,855	1,170,450	1,352,271	1,169,105	1,316,743
Mn content .. ..	685,314	654,051	565,391	565,970	662,485	560,621	627,479
Ferro-manganese ..	13,189	2,055	3,697	31,715	28,687	72,596	87,697
Mn content .. ..	10,388	884	2,953	24,727	23,132	58,197	70,024
Argentina—							
Dioxide and borate of manganese .. ..	306	232	206	53	481	(a)	(a)
Ferro-manganese ..	1,147	1,723	1,143	2,405	1,677	(a)	(a)
Chile—							
Ferro-manganese ..	1,106	96	222	496	201	(a)	(a)
Japan (total imports)—							
Ore .. .. .	56,917	90,267	38,864	(a)	—	—	36,946

(a) Information not available.

**MICA**  
**PRODUCTION OF MICA**  
(Long tons)

Producing Country	1942	1943	1944	1945	1946	1947	1948							
<b>BRITISH COUNTRIES</b>														
Northern Rhodesia—														
Sheet .. .. .	3	8	15	5	(5 cwt.)	—	—							
Waste .. .. .	1	2	1	2	(6 cwt.)	—	—							
Southern Rhodesia—														
Block .. .. .	} 12	} 53	} 246	} 193	} 330	} 285	} 270							
Waste .. .. .								6	17					
Tanganyika Territory—														
Block and sheet .. .. .	(b) 13	(b) 27	131	107	70	(b) 70	(b) 71							
Ground .. .. .	—	—	—	—	—	(b) 5	(t) 3							
Waste .. .. .	(b) —	(b) —	—	150	265	—	—							
Uganda .. .. .	—	(b) 1	(b) 12	7	—	—	1							
Union of South Africa (c)	1,245	1,060	1,245	1,113	1,757	1,978	1,340							
Canada (sales)—														
Rough mine-run or rifted	} 2,821	} 638	} 140	} 5	} 309	} 110	} 10							
Trimmed .. .. .								130	230	30	14	11	33	
Splittings .. .. .								33	20	2	6	—	8	
Sold for mechanical split-														
tings .. .. .								85	191	147	114	130	142	
Ground .. .. .		2,708	2,402	783	1,186	1,865	1,673							
Scrap .. .. .		—	—	2,178	2,265	1,598	1,659							
Ungraded .. .. .	—	—	—	—	—	—	3							
By varieties—														
Phlogopite .. .. .	(a)	3,348	2,861	2,542	3,172	2,907	3,304							
Muscovite .. .. .	(a)	246	123	603	722	807	224							
Ceylon (exports) .. .. .	—	6	2	1	(8 cwt.)	(4 cwt.)	—							
India (exports)—														
Blocks .. .. .	1,463	2,361	1,271	1,206	1,350	710	679							
Splittings .. .. .	6,846	4,759	2,341	3,253	6,566	7,305	10,196							
Scrap .. .. .	1,128	2,172	(1 cwt.)	323	2,586	1,565	7,273							
Australia (d)—														
Crude and scrap .. .. .	4	2	12	54	36	10	19							
Cut .. .. .	36	24	25	31	23	41	40							
New Zealand .. .. .	—	—	(3 cwt.)	(8 cwt.)	—	—	—							
<b>FOREIGN COUNTRIES</b>														
Austria .. .. .	(a)	(a)	(a)	(a)	35	77	89							
France .. .. .	(a)	100	1	—	—	—	—							
Italy .. .. .	252	407	15	41	13	17	23							
Norway .. .. .	1,369	974	473	133	64	183	151							
Portugal .. .. .	11	1,181	2,465	—	—	3	—							
Spain .. .. .	329	381	235	18	4	12	11							
Sweden—														
Block .. .. .	311	319	174	108	—	111	14							
Ground .. .. .	175	3	156	16	68	41	49							
Angola .. .. .	1	1	4	15	(f) 31	(f) 88	(f) 106							
Eritrea .. .. .	(a)	(a)	(a)	(a)	(a)	(a)	(13 cwt.)							
Madagascar—														
Phlogopite .. .. .	} 315	} 324	} 484	} 602	} 459	} 444	} 499							
Muscovite .. .. .								13	—	8	2	—	—	
Mozambique .. .. .	—	—	4	2	2	1	—							
Mexico (exports) .. .. .	83	129	109	402	80	(a)	(a)							
United States (sales)—														
Sheet (uncut) .. .. .	1,233	1,539	680	580	482	186	121							
Scrap (e) .. .. .	38,627	41,195	46,185	36,661	47,859	44,462	46,569							
Argentina—														
Sheet .. .. .	517	386	447	698	(a)	(a)	(a)							
Waste .. .. .	98	10	138	10	(a)	(a)	(a)							
Bolivia (exports) .. .. .	4	2	2	—	—	—	—							
Brazil .. .. .	1,034	891	1,198	1,000	1,613	1,207	1,868							
Peru .. .. .	5	9	118	483	204	2	(a)							
Korea .. .. .	1,092	144	415	93	(a)	(a)	(a)							

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

(a) Information not available. (b) Exports. (c) Chiefly waste mica. The production of sheet mica is negligible.

(d) The following amounts of Damourite were also produced (long tons): 1942—165; 1943—61; 1944—105; 1945—94; 1946—203; 1947—314; 1948—362.

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

(f) Including the following amounts of waste mica (long tons): 1946—25; 1947—84; 1948—96.

EXPORTS OF MICA  
(Domestic Produce)  
(Long tons)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Splittings, ground and waste .. .. .	44	71	18	50	128	275	294
Southern Rhodesia ..	8	46	199	207	326	284	312
Tanganyika Territory—							
Block and sheet ..	13	27	125	97	72	70	80
Ground and waste ..	—	—	—	150	315	5	103
Uganda .. .. .	—	1	12	7	—	—	1
Union of South Africa (c)	756	735	421	1,047	2,675	2,153	1,223
Canada—							
Rough cobbled and thumb trimmed .. .. .	216	385	553	388	313	213	162
Splittings .. .. .	66	29	34	2	4	2	5
Ground .. .. .	(a)	(a)	268	157	201	80	947
Scrap and waste ..	1,930	1,910	2,178	2,167	1,741	1,143	892
India—							
Blocks .. .. .	1,463	2,361	1,271	1,206	1,350	710	679
Splittings .. .. .	6,846	4,759	2,341	3,253	6,566	7,305	10,196
Scrap .. .. .	1,128	2,172	(1 cwt.)	323	2,586	1,565	7,273
Ceylon .. .. .	—	6	2	1	(8 cwt.)	(4 cwt.)	—
Australia—							
Slabs (£ Australian) ..	(£1,874)	(£35,715)	(£15,573)	£1,187	(£6,801)	(£16,686)	(£13,487)
FOREIGN COUNTRIES							
Austria .. .. .	(a)	(a)	(a)	(a)	(a)	1	93
Belgium-Luxemburg E.U.—							
Sheets and plates ..	—	—	—	(a)	(a)	(a)	20
Bulgaria .. .. .	56	181	100	—	—	(a)	(a)
France—							
Unmanufactured ..	12	—	—	—	37	5	42
Sheet, plate and manufactures .. .. .	18	4	1	2	6	11	40
Germany—							
Unmanufactured ..	72	11	(b) 2	(a)	(a)	(a)	(a)
Netherlands .. .. .	5	2	(a)	(a)	1	2	7
Norway—							
Sheet .. .. .	1,011	882	584	171	220	68	89
Scrap .. .. .	85	59	129	384	67	98	149
Portugal .. .. .	—	216	84	5	—	—	—
Sweden .. .. .	(a)	(a)	(a)	63	20	368	682
Switzerland (including asbestos) .. .. .	—	—	—	—	1	1	49
Angola (c) .. .. .	1	1	2	10	—	107	(a)
Madagascar—							
Phlogopite, etc. ..	1	244	590	244	703	538	700
Mozambique .. .. .	1	—	1	1	1	—	2
Mexico .. .. .	83	129	109	402	80	(a)	(a)
United States—							
Unmanufactured ..	179	80	95	127	132	148	115
Ground and manufactured .. .. .	715	539	457	748	1,245	1,185	1,091
Argentina .. .. .	402	397	165	313	350	(a)	(a)
Bolivia .. .. .	4	2	2	—	—	—	—
Brazil .. .. .	852	783	926	969	1,130	844	971
Peru .. .. .	5	12	118	483	167	(a)	(a)
Korea (d) .. .. .	98	123	123	(a)	(a)	(a)	(a)

(a) Information not available.

(b) January to July only.

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

(d) Imports into Japan from Korea.

IMPORTS OF MICA

(Less Re-exports)

(Long tons)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Slabs .. .. .	1,044	1,654	1,448	1,274	1,073	1,091	(b) 781
Splittings .. .. .	1,143	1,155	363	225	2,200	3,308	(b) 2,452
Ground and waste .. .. .	1,417	3,015	229	741	993	629	(a) 3
Tanganyika Territory .. .. .	—	—	9	1	—	1	3
Union of South Africa—							
Mica and micanite sheets	7	5	12	7	12	(a)	(a)
Canada—							
Mica and manufactures	(£39,931)	(£50,238)	(£41,795)	(£53,168)	(£65,898)	(£139,818)	(£101,043)
India—							
Block .. .. .	255	—	165	554	—	11	110
Splittings .. .. .	—	80	57	—	3	30	29
Australia—							
Slabs .. .. .	(£11,893)	(£32,762)	(£46,139)	(£9,671)	(£114,095)	(£1,394)	(£6,545)
FOREIGN COUNTRIES							
Austria— .. .. .	(a)	(a)	(a)	(a)	(a)	7	15
Sheet .. .. .							
Belgium-Luxemburg E.U.—							
Crude sheet and crude plate .. .. .	10	3	2	(a)	(a)	(a)	453
Cut sheet and cut plate	2	—	—	(a)	(a)	(a)	62
Czechoslovakia .. .. .	(a)	(a)	(a)	(a)	—	3	(c) 30
Denmark—							
Block .. .. .	22	21	20	2	22	10	21
Powder .. .. .	36	5	6	3	21	18	25
France—							
Unmanufactured .. .. .	2	—	1	6	104	386	652
Sheet, plate and manufactures .. .. .	5	6	1	47	282	284	16
Germany—							
Unmanufactured .. .. .	2,098	1,755	(d) 770	(a)	(a)	(a)	(a)
Italy—							
Unmanufactured and sheet .. .. .	(a)	(a)	(a)	(a)	(a)	207	423
Netherlands—							
Unmanufactured .. .. .	} 13	7	(a)	(a)	54	144	} 263
Sheet, plate and manufactured .. .. .							
Portugal .. .. .	1	—	1	1	5	7	5
Egypt .. .. .	—	—	—	—	(b) 6	—	(b) 2
Mexico .. .. .	33	8	10	10	86	—	(a)
United States—							
Unmanufactured .. .. .	3,580	4,562	4,372	5,088	7,551	5,272	6,276
Cut, splittings and manufactures .. .. .	6,504	7,998	2,037	3,272	4,899	5,046	9,593
Japan .. .. .	197	246	246	(a)	(a)	48	(a)
Turkey .. .. .	(a)	(a)	—	1	2	1	1

(a) Information not available.

(b) Total imports.

(c) January to October only.

(d) January to July only.

**MOLYBDENUM**  
**PRODUCTION OF MOLYBDENUM ORE**  
*(In terms of MoS<sub>2</sub>)*  
(Cwt.)

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
Canada (Shipments) ..	1,418	5,832	16,698	7,495	6,043	6,784	2,721
Australia .. .. .	300	450	310	25	150	70	60
<b>FOREIGN COUNTRIES</b>							
Austria .. .. .	(a)	(a)	(a)	(a)	(b) 145	(b) 20	—
Finland .. .. .	8,030	8,334	8,550	3,620	4,110	2,300	—
France .. .. .	(a)	361	225	—	—	—	—
Italy .. .. .	600	290	2	—	—	—	—
Norway .. .. .	12,080	7,604	8,136	2,486	313	3,216	2,641
Sweden .. .. .	(a)	400	666	98	—	—	(b) 50
Egypt .. .. .	—	20	80	—	—	—	—
Morocco (French)..	330	360	—	—	1,575	1,181	—
Mexico .. .. .	28,070	37,340	23,590	14,368	26,840	4,467	—
United States .. ..	847,351	917,565	575,580	458,363	271,102	402,485	397,411
Chile .. .. .	19,020	22,310	32,789	27,595	18,367	13,172	17,454
Peru .. .. .	5,040	2,800	2,028	952	137	103	68
Japan .. .. .	1,850	2,854	6,200	3,540	1,480	550	32
Korea (b) .. .. .	8,900	11,900	16,100	1,800	(a)	(a)	(a)

Molybdenum ore is also produced in Roumania, Spain, U.S.S.R., Yugoslavia, China and Turkey.

(a) Information not available.

(b) Estimated.

EXPORTS OF MOLYBDENUM ORE, ETC.

(Domestic Produce)

(Cwt.)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Ferro-molybdenum ..	(a)	(a)	(a)	(a)	(a)	2,680	1,400
Australia—							
Ore and concentrates ..	—	—	—	—	(b) 7	41	—
FOREIGN COUNTRIES							
Finland—							
Ore .. .. .	5,428	4,512	2,750	1,228	4,099	1,375	—
France—							
Molybdic acid and molybdates .. .. .	26	10	—	—	2	—	(a)
Norway—							
Ore .. .. .	12,514	8,550	7,855	5,085	198	3,420	2,600
Sweden—							
Ore .. .. .	439	20	—	—	—	—	40
Ferro-molybdenum ..	819	990	—	2	219	217	98
Morocco (French)—							
Ore .. .. .	571	1,968	3,563	—	—	1,476	(a)
Mexico—							
Ore and concentrates (MoS <sub>2</sub> content) ..	27,966	37,101	23,389	15,222	26,780	(a)	(a)
United States—							
Ore and concentrates ..	191,777	175,961	105,846	47,789	(a)	(a)	(a)
MoS <sub>2</sub> content ..	172,696	149,979	89,134	(d) 42,628	(d) 8,411	(d) 44,516	61,539
Metal, alloys and scrap	6,463	3,467	9,174	802	(a)	1,188	503
Ferro-molybdenum ..	54,375	9,963	39,532	15,783	6,620	8,509	10,620
Chile—							
Ore .. .. .	21,552	25,278	35,918	12,234	45,742	(a)	(a)
Peru—							
Ore (MoS <sub>2</sub> content) ..	6,380	3,248	1,725	952	99	917	79
Korea—							
Ore (MoS <sub>2</sub> content) (c) ..	157	295	443	39	(a)	(a)	(a)
Manchuria—							
Ore (MoS <sub>2</sub> content) (c) ..	630	846	846	49	(a)	(a)	(a)

(a) Information not available.

(b) Year ended June 30, 1946.

(c) Imports into Japan from the country indicated.

(d) Revised.

## IMPORTS OF MOLYBDENUM ORE, ETC.

(Less Re-exports)

(Cwt.)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom— Ore .. .. .	144,961	130,658	10,378	21,255	25,824	46,190	45,754
FOREIGN COUNTRIES							
Finland— Ferro-molybdenum ..	79	132	42	—	—	—	203
France— Molybdic acid and molyb- dates .. .. .	—	—	—	—	—	8	(a)
Italy— Ferro-molybdenum ..	1,672	766	(a)	—	15,058	535	1,214
Sweden— Ore .. .. .	4,173	2,716	1,378	4,527	710	614	412
Ferro-molybdenum ..	17	4	33	40	219	291	41
United States— Ore ( $MoS_2$ content) ..	11,250	26,636	52,109	9,900	4,118	—	—
Japan— Ore ( $MoS_2$ content) ..	787	1,142	1,289	93	(a)	(a)	(a)

(a) Information not available.

**MONAZITE**  
**PRODUCTION OF MONAZITE**  
(Long tons)

Producing Country	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
India .. .. .	1,300	1,908	2,016	1,567	60	(a)	(a)
Malaya .. .. .	(b) 54	(b) 54	(b) 54	(b) 54	—	—	—
Australia .. .. .	—	32	(2 cwt.)	—	—	—	(c) 1,121
FOREIGN COUNTRIES							
Egypt .. .. .	—	—	—	(3 cwt.)	(3 cwt.)	—	6
Brazil (exports) .. .. .	1,407	1,526	3	1,014	1,230	1,723	1,757

(a) Information not available.

(b) Average annual production during Japanese occupation.

(c) Concentrates.



EXPORTS OF MONAZITE, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
India— Monazite sand .. ..	1,415	2,458	591	200	1,947	703	(a)
FOREIGN COUNTRIES							
France— Thorium nitrate and other rare-earth salts ..	119	97	42	—	(2 cwt.)	11	—
United States— Thorium compounds ..	14	15	6	(b) 3	(a)	(a)	(a)
Brazil— Monazite sand .. ..	1,407	1,526	3	1,014	1,230	1,723	1,757

(a) Information not available.

(b) January to June only.

IMPORTS OF MONAZITE, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
Canada— Thorium and cerium salts .. .. £	3,503	2,514	3,696	2,788	7,800	5,223	17,103
FOREIGN COUNTRIES							
France— Thorium nitrate and other rare-earth salts	2	9	(1 cwt.)	—	34	35	14
Germany— Monazite sand .. ..	16	—	—	(a)	(a)	(a)	(a)
United States— Monazite sand and thorite .. ..	3,927	4,446	343	490	(a)	(a)	(a)

(a) Information not available.

# NICKEL

## PRODUCTION OF NICKEL ORE

(In terms of metal)

(Long tons)

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
Union of South Africa (b)	529	486	529	495	491	519	451
Canada .. .. .	127,327	128,580	122,589	109,433	85,770	105,912	117,625
TOTAL .. .. .	127,900	129,100	123,200	109,900	86,300	106,400	118,076
<b>FOREIGN COUNTRIES</b>							
Finland .. .. .	572	4,572	241	364	107	—	—
Greece .. .. .	695	487	—	—	—	—	—
Italy .. .. .	79	63	14	12	—	—	—
Norway .. .. .	897	568	521	508	—	—	—
Sweden .. .. .	371	691	687	384	—	—	—
U.S.S.R. (c) .. .. .	(a)	10,980	(a)	13,200	20,000	25,000	25,000
Morocco (French) .. .. .	(a)	44	46	—	—	—	—
Cuba (h) .. .. .	(a)	(a)	8,656	17,586	16,324	3,126	—
United States (e) .. .. .	546	573	882	1,031	314	577	788
Japan (d) .. .. .	1,234	1,590	1,754	642	—	—	—
Netherlands East Indies .. .. .	(f) 300	(f) 300	(f) 300	(f) 300	—	—	—
New Caledonia (g) .. .. .	6,685	5,334	5,943	4,010	3,300	3,300	4,805
TOTAL* .. .. .	25,000	28,000	30,000	38,000	40,000	32,000	31,000
WORLD'S TOTAL* .. .. .	153,000	157,000	153,000	148,000	126,000	138,000	149,000

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

(a) Information not available.

(b) Nickel content of platinum matte.

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

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

(e) 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			
1942 .. .. .	3,698	1946 .. .. .	7,364				
1943 .. .. .	6,176	1947 .. .. .	8,519				
1944 .. .. .	3,858	1948 .. .. .	7,902				
1945 .. .. .	5,788						

(f) Average annual production during the Japanese occupation.

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

Long tons				Long tons			
1942 .. .. .	5,594	1946 .. .. .	2,294				
1943 .. .. .	5,420	1947 .. .. .	1,137				
1944 .. .. .	5,760	1948 .. .. .	1,845				
1945 .. .. .	2,865						

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

Long tons				Long tons			
1942 .. .. .	(a)	1946 .. .. .	11,068				
1943 .. .. .	2,392	1947 .. .. .	1,982				
1944 .. .. .	4,605	1948 .. .. .	—				
1945 .. .. .	10,728						

EXPORTS OF NICKEL

(Domestic Produce)

(Long tons)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Cubes, rondels, etc. ..	1,108	1,315	1,505	4,318	4,354	5,393	6,244
Plates, sheets, etc. ..	6	1	2	10	214	207	247
Ingots, sheets, wire, etc. (alloys) .. .. .	189	163	174	322	1,650	1,525	1,275
Scrap and alloyed ..	122	—	—	—	34	1,494	1,600
Nickel oxide .. .. .	116	53	4	24	111	48	19
Union of South Africa—							
Matte .. .. .	(a)	(a)	(a)	(a)	313	256	405
Canada—							
Ore, matte, etc. (Ni content) .. .. .	36,842	32,513	30,222	25,264	27,344	35,506	45,358
Nickel, fine .. .. .	78,846	85,035	87,061	69,793	72,140	63,175	63,613
Nickel oxide (Ni content)	8,235	3,475	1,109	1,570	461	583	8,743
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Ingots, scrap, etc. ..	379	60	16	} 1	25	105	{ 35 24
Sheets, wire, etc. ..	1	1	—				
Czechoslovakia—							
Crude and scrap ..	} (a)	(a)	(a)	(a)	{ 18 6	60	—
Plates and sheets ..							
Denmark—							
Crude and scrap ..	9	18	3	2	—	2	(a)
Finland—							
Ore .. .. .	(a)	80,256	50,717	—	—	—	—
France—							
Matte and speiss ..	4	21	—	3	—	11	10
Ingots .. .. .	68	273	21	—	1	1	3
do. (alloys) .. .. .	179	186	—	2	4	—	—
Sheets and wire ..	—	—	204	—	—	1	6
do. (alloys) .. .. .	2	—	—	—	40	63	79
Germany—							
Nickel and chrome ores	4,013	6,096	(b) 738	} (a)	(a)	(a)	(a)
Crude, scrap and coin ..	302	382	(b) 192				
Bars, sheets, wire, etc. ..	166	84	(b) 51				
Greece—							
Ore .. .. .	(c)	(a)	(a)	—	—	(a)	(a)
Italy—							
Sheets, tubes, wire and alloys .. .. .	—	—	—	—	—	388	830
Netherlands—							
Crude and scrap ..	16	4	(a)	(a)	13	93	107
Norway—							
Ingots .. .. .	894	714	1,197	1,172	4,459	7,403	7,193

(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	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Sweden—							
Crude .. .. .	14	2	1	—	35	42	—
Switzerland—							
Crude, scrap and alloys	—	—	—	—	—	268	94
Bars, sheets, etc., and alloys .. .. .	—	3	—	1	146	423	336
Cuba—							
Ore .. .. .	194	—	2,925	15,846	(a)	(a)	(a)
United States—							
Bars, rods, sheets and alloys .. .. .	1,898	2,928	3,077	721	841	1,211	1,208
Scrap and alloys .. .. .	4,016	5,030	3,590	2,043	7,040	7,522	5,202
Nickel-silver bars, etc. ..	69	82	47	119	910	1,395	563
Brazil—							
Ore .. .. .	24	494	—	—	—	—	—
New Caledonia—							
Ore .. .. .	20	—	—	—	—	1,181	—
Matte, etc. .. .. .	7,155	6,968	7,382	3,828	2,977	1,476	3,612

(a) Information not available.

IMPORTS OF NICKEL

(Less Re-exports)

(Long tons)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948		
<b>BRITISH COUNTRIES</b>									
United Kingdom—									
Ore, concentrates and matte .. .. .	26,498	20,294	21,784	19,373	12,737	21,500	26,403		
Cubes, rondels, etc. ..	1,076	400	324	(b) 67	4,742	7,655	4,709		
Plates, sheets, etc. ..	20	276	148	8	162	439	(a)		
Ingots, sheets, etc. (alloys)	3,745	4,225	2,954	1,331	3,206	5,222	4,296		
Scrap and alloyed ..	3	—	11	28	480	30	276		
Nickel oxide .. ..	130	25	10	85	306	389	221		
Canada—									
Ingots or blocks and alloyed .. .. .	30	27	7	11	5	82	17		
Bars, rods, sheets, etc. ..	393	436	336	606	1,106	966	1,087		
do. (alloyed) .. ..	22	24	43	75	319	181	93		
India—									
Nickel-silver .. ..	5	—	—	—	283	1,864	1,310		
Hong Kong (total imports)—									
Nickel .. .. .	(a)	(a)	(a)	(a)	9	35	3		
Australia—									
Pigs and ingots .. ..	} 2,230	1,248	58	79	{ 147	796	285		
Bars and rods .. ..								23	32
Irish Republic—									
Nickel, alloys and manufactures ..	3	—	1	6	21	20	8		
<b>FOREIGN COUNTRIES</b>									
Austria—									
Crude .. .. .	} (a)	(a)	(a)	(a)	(a)	{ 186	199		
Anodes .. .. .								7	2
Ingots, sheets, etc. ..								8	13
Scrap .. .. .								—	10
Belgium-Luxemburg E.U.—									
Ingots, etc. .. ..	} 25	3	1	180	926	1,033	{ 4		
Scrap .. .. .								358	
Sheets, wire, etc. ..								477	
Czechoslovakia—									
Crude and scrap ..	(a)	(a)	(a)	(a)	{ 188	1,724	(c) 1,639		
Plates and sheets ..								36	34
Denmark—									
Crude and scrap ..	21	44	9	31	87	65	101		
Finland (total imports)—									
Crude .. .. .	16	19	17	1	4	39	100		
France—									
Matte and speiss ..	—	1	—	—	2,179	785	2,633		
Ingots .. .. .	4	11	58	1,825	4,321	4,039	1,444		
do. (alloys) .. ..	—	2	2	1	121	102	132		
Sheets and wire ..	4	5	—	1	153	225	149		
do. (alloys) .. ..	40	10	2	4	94	157	63		
Nickel sulphate and oxide	92	—	—	85	1,795	1,180	(a)		
Germany—									
Ore .. .. .	16,046	27,070	(d) 34,570	} (a)	(a)	(a)	(a)		
Crude, scrap and coin ..	2,353	1,165	(d) 425						
Bars, sheets, wire, etc. ..	23	16	(d) 3						
Italy—									
Ingots, scrap and alloyed	295	266	—	—	1,270	1,298	675		
Sheets, tubes, wire, etc., and alloyed .. ..	20	49	—	—	59	270	226		
Netherlands—									
Crude and scrap ..	52	84	(a)	(a)	431	576	224		
Norway—									
Matte (copper nickel) ..	—	—	3 002	1,882	11,138	15,464	16,771		
Crude, bars, rods, etc. ..	9	1	1	7	22	6	2		

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

(b) Excess of re-exports.  
(d) January to July only.

## IMPORTS OF NICKEL (Cont.)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Portugal .. .. .	1	—	—	8	55	45	12
Spain—							
Ingots, bars, etc. ..	9	4	12	20	343	274	365
Sweden—							
Crude .. .. .	27	92	150	1,884	2,955	3,167	1,929
Switzerland—							
Crude, scrap, and alloyed	14	58	42	260	931	566	780
Bars, sheets, etc., and alloyed.. .. .	31	22	10	10	212	354	432
Algeria—							
Sheets, wire and alloys	1	—	14	2	2	1	(a)
Egypt (total imports)—							
Crude, bars, sheets, etc.	4	1	4	16	36	12	22
Mexico—							
Ingots .. .. .	2	9	4	123	40	(a)	(a)
United States—							
Ore and matte .. .. .	35,883	38,827	32,488	22,356	17,005	13,068	12,370
Crude, tubes, etc., and alloys .. .. .	72,132	82,660	82,194	68,458	63,538	52,385	63,899
Nickel oxide .. .. .	10,694	4,629	4,879	17,042	12,965	13,459	19,209
Argentina .. .. .	11	10	—	(a)	(a)	(a)	(a)
Brazil (total imports)—							
Cubes and sheets ..	32	5	41	204	204	212	(a)
Chile—							
Ingots, bars and plates	55	78	55	84	75	(a)	(a)
Uruguay—							
Ingots .. .. .	(a)	2	5	(a)	(a)	(a)	(a)
Iran (total imports) (b)—							
Ingots, bars, etc. ..	50	—	(a)	(a)	67	160	(c)
Japan—							
Ore .. .. .	746	1,330	449	(a)	(a)	(a)	(a)
Matte .. .. .	3	29	166	435	(a)	(a)	(a)
Metal .. .. .	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Turkey—							
Ingots, bars, and sheets,...	(a)	(a)	3	11	7	8	8

(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	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
India— Nitrate of potash (b) ..	5,118	2,321	2,118	7,467	3,457	(a)	(a)
FOREIGN COUNTRIES							
Spain— Nitrate of potash ..	530	630	420	420	500	500	400
Chile— Nitrate of soda .. ..	1,311,674	1,152,654	975,062	1,361,654	1,622,915	1,605,460	1,758,518

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

(a) Information not available.

(b) Exports plus consumption in tea gardens.

ESTIMATED PRODUCTION OF MANUFACTURED NITROGEN COMPOUNDS\*

(Long tons)

Producing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom (b)—							
Total ammonia products basis 25% NH <sub>3</sub> ..	1,286,000	1,541,000	1,429,200	1,375,600	1,506,500	1,408,600	1,648,800
Actual ammonium sulphate ..	620,400	826,500	779,500	760,400	833,700	796,700	901,000
Union of South Africa—							
Ammonium sulphate (c)	576	97	—	(a)	(a)	(a)	(a)
Canada—							
Ammonium sulphate ..	104,282	175,361	187,123	197,767	176,728	175,737	192,062
Ammonium nitrate (c) ..	(a)	(a)	(a)	183,915	236,721	(a)	(a)
Ammonium phosphate (c)	47,080	68,019	119,295	(a)	(a)	(a)	(a)
India—							
Ammonium sulphate ..	24,956	19,460	20,118	19,591	19,108	(a)	16,212
Australia—							
Ammonium sulphate (c)	28,244	23,988	23,220	22,095	21,823	29,266	39,489
<b>FOREIGN COUNTRIES</b>							
Austria—							
Nitrogen fertilizers (20.5% N) ..	(a)	(a)	(a)	(a)	31,321	107,298	258,555
Belgium—							
N content—							
Synthetic ammonia etc. Ammonium sulphate ..	}	(a)	(a)	(a)	108,739	122,713	153,495
Cyanamide ..					9,096	10,610	12,159
Mixed fertilizers ..					5,355	6,786	5,333
Technical products ..					2,835	3,785	2,181
Czechoslovakia—							
Nitrogen fertilizers ..	(a)	(a)	(a)	(a)	(a)	130,300	158,000
France—							
Ammonium sulphate (c)	128,300	112,200	90,800	35,700	106,886	201,776	231,266
Cyanamide (c) ..	28,300	11,400	5,400	9,600	13,800	19,400	18,000
Nitrate of soda (c) ..	27,800	26,400	12,400	1,900	9,400	16,700	21,200
Nitrate of lime (c) ..	173,400	147,000	128,000	63,000	113,400	172,300	179,000
Nitrate of ammonia (c)	53,200	44,800	53,000	29,000	57,300	141,300	177,600
"Ammonitrate" (c) ..	143,400	152,600	128,000	41,000	106,400	97,400	102,900
Germany (d)—							
Chemical nitrogen (N content)—							
Fertilizer ..	743,249	641,542	492,376	(a)	(e) 183,000	(e) 187,200	(e) 260,600
Technical use ..	232,893	284,976	352,159	(a)	(a)	(a)	(a)
Italy—							
Ammonium sulphate ..	266,344	230,430	67,952	22,895	}	(a)	(a)
Cyanamide ..	110,237	90,130	29,026	1,008			
Nitrate of soda ..	2,715	1,283	—	—			
Nitrate of lime ..	189,371	139,601	67,873	19,801			
Nitrate of ammonia ..	41,757	34,304	25,320	52,126			
Di-ammonium phosphate	308	—	—	—			
Netherlands—							
Ammonium sulphate (N content) ..	12,321	9,270	6,589	2,562	5,525	10,791	9,740
Nitrogen fertilizers (N content) ..	(a)	(a)	(a)	(a)	(a)	66,818	18,775

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

(a) Information not available.

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

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

(d) Years ended May 31 of the year stated for 1942 to 1944.

(e) British, American and French zones.



## ESTIMATED PRODUCTION OF MANUFACTURED NITROGEN COMPOUNDS (Cont.)

Producing Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Norway—							
Cyanamide .. ..	33,571	46,943	51,004	12,931	28,308	45,183	37,475
Nitrate of ammonia .. ..	4,740	3,756	2,320	2,515	2,748	3,567	3,010
Nitrate of lime .. ..	303,145	443,336	226,025	469,276	521,424	465,626	428,361
Nitrate of soda .. ..	856	2,559	—	2,839	3,317	2,966	2,638
Lime ammonium nitrate	12,588	47,793	3,238	7,626	—	22,144	21,695
Poland—							
Ammonium sulphate .. ..	(a)	(a)	(a)	(a)	54,722	64,633	(c) 76,000
Cyanamide .. ..							
Nitrate of soda .. ..							
"Saletzak" .. ..							
Nitrate of ammonia .. ..							
Other nitrogen fertilizers	(a)	(a)	(a)	(a)	(a)	(a)	50,222
Portugal—							
Cyanamide .. ..	(a)	(a)	(a)	(a)	(a)	—	13
Ammonium chloride .. ..							
Nitrate of ammonia .. ..							
Nitrate of soda .. ..							
Ammonium sulphate .. ..							
Spain—							
Ammonium sulphate .. ..	16,771	19,397	18,413	16,428	15,779	15,921	12,921
Sweden—							
Compressed ammonia (100%) .. ..	132	198	225	255	2,574	6,168	(a)
Ammonium sulphate (b) .. ..	4,732	4,583	3,742	3,222	3,244	4,241	(a)
Ammonia (25%) .. ..	1,670	2,225	2,851	3,141	2,924	2,841	(a)
Synthetic nitrogen fertilizer (N content) .. ..	15,462	16,313	18,075	13,602	12,709	10,798	(a)
Switzerland—							
Nitrogen fertilizers (N content) .. ..	12,000	12,000	12,000	14,000	14,000	14,000	12,000
United States—							
Sulphate equivalent of ammonia produced (coke-ovens) .. ..	805,815	801,512	843,663	780,999	664,033	814,564	830,083
Actual ammonium sulphate (coke-ovens) .. ..	684,647	679,705	730,575	682,404	574,779	722,714	769,135
Actual ammonium sulphate (synthetic plants) .. ..	(a)	(a)	(a)	79,342	139,869	175,917	174,501
Anhydrous ammonia (synthetic plants) .. ..	455,136	485,161	485,403	489,871	647,801	997,511	973,023
Ammonium nitrate, original .. ..	(a)	342,284	388,116	376,328	647,231	935,529	882,448
Brazil (Voita Redonda)—							
Ammonium sulphate .. ..	(a)	(a)	(a)	(a)	(a)	(a)	4,209
Japan—							
Ammonium sulphate .. ..	1,082,000	951,000	701,000	239,162	459,451	709,597	931,209
Cyanamide .. ..	200,000	164,000	163,000	61,400	142,989	172,232	201,723
Synthetic fertilizer .. ..	104,000	63,000	63,000	17,000	(a)	(a)	(a)

(a) Information not available.

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

(c) Estimated.

EXPORTS OF NITROGEN COMPOUNDS

(Domestic Produce)

(Long tons)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Nitrate of potash ..	600	273	264	546	2,752	2,133	2,854
Nitrate of soda ..	359	51	103	4,181	5,159	1,952	28
Nitrate of lime ..	20	—	—	3	—	—	(a)
Ammonium sulphate ..	39,174	6,149	133,063	252,327	277,925	246,375	221,044
Ammonium chloride ..	6,117	10,805	11,923	13,303	15,938	9,267	13,431
Ammonium nitrate ..	18,690	690	11,458	37,376	130,516	79,455	97,075
Ammonium phosphate ..	136	101	86	74	675	329	766
Liquid ammonia ..	312	347	431	2,339	10,918	7,344	850
Anhydrous ammonia ..	76	204	307	308	767	1,395	1,432
Canada—							
Ammonium sulphate ..	70,746	125,964	149,550	161,776	138,792	141,942	130,695
Hong Kong (re-exports)—							
Nitrate of potash ..	(a)	(a)	(a)	(a)	120	2,275	(a)
Nitrate of soda ..	(a)	(a)	(a)	(a)	4	436	(a)
Ammonium sulphate ..	(a)	(a)	(a)	(a)	1,631	8,746	(b) 32,992
Ammonium chloride ..	(a)	(a)	(a)	(a)	459	615	675
Anhydrous ammonia ..	(a)	(a)	(a)	(a)	—	10	(a)
India—							
Nitrate of potash ..	4,518	2,061	1,223	153	1,135	816	36
Malaya (including re-exports)—							
Nitrate of potash ..	(a)	(a)	(a)	(a)	—	5	1
Other nitrogen fertilizers	(a)	(a)	(a)	(a)	16	72	200
Australia—							
Nitrate of soda ..	5	8	4	2	189	5	—
Ammonium sulphate ..	3	—	89	164	115	161	106
FOREIGN COUNTRIES							
Austria—							
Lime ammonium nitrate	(a)	(a)	(a)	(a)	(a)	52,402	102,312
Belgium-Luxemburg E.U.—							
Nitrate of potash ..	—	—	—	—	—	—	775
Nitrate of soda ..	—	—	—	—	—	—	24,329
Nitrate of lime ..	501	—	—	—	—	—	165
Ammonium sulphate ..	15,602	226	—	—	—	—	262,241
Ammonium chloride ..	65	1,092	2,506	(a)	(a)	(a)	18,832
Ammonium nitrate ..	3,146	2,048	—	—	—	—	26,158
Ammonium carbonate ..	—	2	15	—	—	—	125
Ammonium phosphate ..	2	170	3	—	—	—	(a)
Cyanamide ..	—	—	—	—	—	—	2,386
Liquid ammonia ..	7,463	12,656	99	—	—	—	(a)
Czechoslovakia—							
Nitrate of potash ..	—	—	—	—	—	—	(c) 4
Nitrate of soda ..	—	—	—	—	30	69	(c) —
Ammonium sulphate ..	(a)	(a)	(a)	(a)	4	—	(c) —
Ammonium chloride ..	—	—	—	—	15	59	(c) 39
Ammonium nitrate ..	—	—	—	—	809	3,553	(c) 2,365
Cyanamide ..	—	—	—	—	25	40	(c) —
France—							
Nitrate of potash ..	70	—	—	46	1,144	4,310	3,165
Nitrate of soda ..	557	—	—	150	332	2,104	565
Nitrate of lime ..	13,047	493	983	—	41	2,368	2,387
Ammonium sulphate (d)	24,457	3,373	2,164	1	13,168	58,066	36,101
Ammonium nitrate ..	—	—	—	—	201	551	2,550
Cyanamide ..	4,607	—	—	697	41	89	375
Liquid ammonia ..	326	1	1	9	1	190	368

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

(b) Synthetic nitrates of sodium, calcium and ammonia.  
(d) May include some "Ammonium nitrate."

## EXPORTS OF NITROGEN COMPOUNDS (Cont.)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
<b>Germany—</b>							
Nitrate of potash ..	9,024	9,133 (b)	3,158	}	(a)	(a)	(a)
Nitrate of soda ..	1,954	1,942 (b)	1,742				
Nitrate of lime, etc. ..	83,164	28,466 (b)	49,826				
Ammonium sulphate ..	90,509	82,208 (b)	50,509				
Ammonium chloride ..	4,982	3,699 (b)	708				
Ammonium nitrate, etc. ..	6,828	8,404 (b)	2,779				
Cyanamide ..	5,746	2,336 (b)	—				
Liquid ammonia ..	1,153	1,253 (b)	634				
<b>Italy—</b>							
Ammonium nitrate ..	(a)	(a)	(a)	(a)	(a)	—	7,200
Ammonium sulphate ..	(a)	(a)	(a)	(a)	(a)	1	26,149
Cyanamide ..	(a)	(a)	(a)	(a)	(a)	—	1,584
<b>Netherlands—</b>							
Nitrate of potash ..	77	—	}	(a)	}	}	(a)
Nitrate of soda ..	5	5					
Nitrate of lime ..	—	—					
Ammonium sulphate ..	—	910					
Ammonium chloride ..	—	19					
Ammonium nitrate ..	—	—					
Lime ammonium nitrate	2,082	—					
Other nitrogen fertilizers	—	—					
<b>Norway—</b>							
Nitrate of soda ..	1,464	407	922	2,328	2,273	3,962	2,474
Nitrate of lime ..	281,958	281,658	209,621	371,969	421,719	385,236	354,210
Ammonium nitrate ..	771	246	527	74	148	1,919	632
Cyanamide ..	24,831	47,211	30,104	4,667	32,082	42,615	30,446
<b>Spain—</b>							
Ammonium sulphate ..	176	54	92	56	2,778	2,216	166
Synthetic nitrates ..	—	1	—	—	2,026	577	748
<b>Sweden—</b>							
Nitrates of potash, soda and lime ..	—	1	—	3	7	52	59
Ammonium nitrate ..	—	—	197	3,272	2,961	—	—
Ammonium sulphate ..	—	—	—	311	123	54	—
Liquid ammonia ..	1	—	—	48	1	—	5
<b>Switzerland—</b>							
Nitrate of potash (crude)	4,412	4,422	1,013	41	271	298	14,172
Nitrates of potash and soda (purified) ..	—	—	—	488	256	654	364
<b>United States—</b>							
Nitrate of soda ..	43,445	6,046	10,355	10,919	14,464	17,790	15,268
Nitrate of potash, etc. ..	3,043	3,661	2,957	3,363	(a)	(a)	(a)
Ammonium nitrate ..	3,371	8,513	12,013	8,790	6,225	5,968	4,542
Other nitrogen fertilizers	8,970	11,803	9,978	74,792	(a)	(a)	(a)
Ammonium sulphate ..	24,545	69,653	9,477	18,528	22,550	79,108	187,934
Nitrogen phosphatic fertilizers ..	4,745	3,001	1,124	850	3,360	55,900	30,848
Anhydrous ammonia ..	1,059	1,771	3,235	3,850	5,499	5,412	3,042
Liquid ammonia ..	1,582	6,083	2,232	2,424	(a)	(a)	(a)
<b>Chile—</b>							
Nitrate of soda ..	1,187,913	1,043,386	1,060,114	1,588,302	1,386,113	1,640,082	1,670,395
Nitrate of potash ..	603	4,976	3,217	715	702	(a)	(a)
<b>Japan—</b>							
Ammonium sulphate ..	(a)	(a)	(a)	(a)	—	5,559	26,430

(a) Information not available.

(b) January to July only.

## IMPORTS OF NITROGEN COMPOUNDS

(Less Re-exports)

(Long tons)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Nitrate of potash ..	2,325	1,464	964	(c) 5	297	110	25
Nitrate of soda .. ..	92,846	11,628	3,195	19,175	45,085	19,276	44,553
Nitrate of lime .. ..	—	—	—	1	—	—	—
Cyanamide .. ..	350	500	565	850	686	1,573	1,703
Ammonium chloride ..	—	—	—	—	—	(c) 6	—
Ammonium nitrate ..	—	—	2	2	—	—	—
Ammonium phosphate	—	23,940	18,923	35,162	18,273	9,615	—
Ammonium sulphate ..	—	—	—	—	—	—	858
Anhydrous ammonia ..	—	—	—	—	—	—	2
Anglo-Egyptian Sudan—							
Nitrogenous fertilizers	(a)	17	1	104	2,717	2,368	3,199
Kenya and Uganda—							
Nitrate of soda .. ..	(a)	(a)	(a)	(a)	(a)	(a)	81
Synthetic nitrate of soda, calcium and ammonia	(c)	(a)	(a)	(a)	(a)	(a)	1,432
Other nitrogen fertilizers	(a)	(a)	(a)	(a)	(a)	(a)	440
Mauritius—							
Nitrate of potash ..	210	102	2,500	—	500	—	1,976
Nitrate of soda .. ..	6,935	783	2,606	—	3,454	9,220	5,829
Ammonium chloride ..	—	—	—	—	—	427	—
Ammonium sulphate ..	9,630	—	4,000	2,471	2,500	4,596	11,408
Northern Rhodesia—							
Nitrates .. ..	50	—	—	—	—	1	(a)
Southern Rhodesia—							
Nitrates .. ..	125	105	100	77	93	88	84
Anhydrous ammonia ..	10	11	12	10	12	14	9
South West Africa—							
Anhydrous ammonia ..	2	4	4	5	4	(a)	(a)
Union of South Africa—							
Nitrate of potash (b) ..	2	—	—	—	1	(a)	(a)
Nitrate of soda (b) ..	14,421	1	—	533	472	(a)	(a)
Ammonium sulphate ..	4,615	9,116	2,982	15,237	10,198	(a)	(a)
Ammonium chloride (b)	367	205	187	403	536	(a)	(a)
Ammonium nitrate (b) ..	9,580	917	13,442	8,617	2,873	(a)	(a)
Anhydrous ammonia (b)	3	—	—	—	3	(a)	(a)
British Guiana—							
Nitrogenous fertilizers ..	(a)	(a)	(a)	10,939	11,046	8,452	10,158
British West Indies—							
Barbados—							
Nitrate of soda .. ..	—	—	785	—	—	—	613
Ammonium sulphate ..	450	3,083	10,985	—	7,484	2,582	6,771
Jamaica—							
Nitrogenous fertilizers	1,227	2,372	—	345	6,656	6,630	5,812
Trinidad and Tobago—							
Ammonium sulphate ..	—	180	2,441	6,086	7,330	6,826	9,136
Canada—							
Nitrate of potash ..	750	837	970	655	366	261	355
Nitrate of soda .. ..	33,628	14,230	14,035	12,417	13,909	14,973	17,594
Ammonium sulphate ..	4,504	35	93	93	57	110	116
Ammonium chloride ..	504	36	973	509	731	139	526
Ammonium nitrate ..	79	103	67	74	73	75	93
Anhydrous ammonia ..	55	29	32	151	1,836	2,202	58
Newfoundland (d) —							
Nitrogen fertilizers ..	(a)	(a)	610	415	580	849	800
Liquid ammonia .. ..	(a)	(a)	6	3	5	5	9
Anhydrous ammonia ..	(a)	(a)	9	12	7	10	5

(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	1942	1943	1944	1945	1946	1947	1948					
<b>BRITISH COUNTRIES (Cont.)</b>												
Ceylon—												
Nitrate of potash refuse	110	—	—	—	—	—	—					
Nitrate of soda ..	—	—	—	—	—	—	3,620					
Ammonium sulphate ..	7,539	9,663	12,637	47,614	29,567	44,027	47,298					
Cyanamide .. ..	—	—	2,844	1,949	—	—	709					
Cyprus—												
Ammonium chloride ..	(a)	(a)	4	1	13	2	5					
Hong Kong (total imports)—												
Nitrate of potash ..	(a)	(a)	(a)	(a)	202	446	(a)					
Nitrate of soda ..	(a)	(a)	(a)	(a)	88	1,337	(a)					
Ammonium sulphate ..	(a)	(a)	(a)	(a)	1,687	4,311	(b) 44,055					
Ammonium chloride ..	(a)	(a)	(a)	(a)	961	1,142	1,075					
Anhydrous ammonia ..	(a)	(a)	(a)	(a)	22	68	(a)					
India—												
Nitrate of soda ..	1,609	—	4,004	—	—	1,712	23,666					
Ammonium sulphate ..	1,361	—	34,234	70,747	121,848	117,825	140,009					
Ammonium phosphate	—	—	54,822	1,786	4,504	6,002	4,737					
Ammonium chloride ..	1,563	721	5,054	2,014	1,904	1,816	3,429					
Other ammonium salts	520	429	2,072	1,696	308	2,553	3,629					
Anhydrous ammonia ..	101	40	122	147	157	191	111					
Other nitrogen fertilizers	—	—	—	6	1	6,978	5,450					
Malaya (total imports)—												
Nitrate of potash ..	(a)	(a)	(a)	(a)	53	4	—					
Other nitrogen fertilizers	(a)	(a)	(a)	(a)	1,937	14,715	10,861					
Palestine—												
Nitrogen fertilizers ..	3,290	5,234	5,401	12,375	7,208	(a)	(a)					
Anhydrous ammonia ..	30	4	3	7	7	(a)	(a)					
Australia—												
Nitrate of potash ..	578	332	91	95	124	139	35					
Nitrate of soda ..	4,327	32,499	16,419	4,352	3,007	3,720	8,019					
Ammonium chloride ..	668	827	5	410	84	128	14					
Ammonium sulphate ..	44	53	2,394	26,707	26,052	11,587	25,478					
New Zealand—												
Nitrate of potash ..	47	21	5	2	1	22	11					
Nitrate of soda ..	2,207	1,560	2	4,173	3,656	2,802	2,504					
Ammonium sulphate ..	1,885	1,914	6,176	2,089	649	1,126	2,411					
Ammonium chloride ..	165	220	107	198	170	340	96					
Anhydrous ammonia ..	43	41	39	65	62	76	91					
Irish Republic—												
Nitrate of potash ..	121	4	56	55	46	55	40					
Nitrate of soda ..	39	5	17	80	174	8,051	10,100					
Ammonium sulphate ..	619	4,104	3,151	1,612	4,021	8,089	27,562					
Anhydrous ammonia ..	10	25	18	25	28	48	38					
<b>FOREIGN COUNTRIES</b>												
Belgium-Luxemburg E.U.—												
Nitrate of potash ..	33	40	176	(a)	(a)	(a)	(a)					
Nitrate of soda ..	17	1	—									
Nitrate of lime ..	16	—	—									
Cyanamide ..	—	—	—									
Ammonium sulphate ..	151	1,843	3,316									
Ammonium chloride ..	111	20	2	(a)	(a)	(a)	(a)					
Ammonium nitrate ..	14,595	—	—									
Bulgaria—												
Nitrate of potash ..	169	123	20	103	118	(a)	(a)					
Nitrate of soda ..	1	19	5	75	72							
Ammonium nitrate, etc.	1,016	1,696	604	141	5,339							
Ammonium chloride ..	234	193	27	120	99							
Liquid ammonia ..	34	65	18	3	—							
Czechoslovakia—												
Nitrate of soda ..	(a)	(a)	(a)	(a)	200	406	(c) —					
Ammonium chloride ..								(c)	(c)	15	—	6,776
Cyanamide, etc. ..												

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

(b) Synthetic nitrates of sodium, calcium and ammonia.

## IMPORTS OF NITROGEN COMPOUNDS (Cont.)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
<b>Denmark—</b>							
Nitrate of potash ..	316	321	302	12	462	380	335
Nitrate of soda ..	198	144	349	5,230	46,046	55,320	39,089
Nitrate of lime ..	200,898	178,043	151,571	208,961	181,796	186,268	163,366
Ammonium sulphate ..	14,919	17,401	16,700	115	—	14,173	27,603
Ammonium chloride ..	300	395	117	163	580	482	635
Ammonium nitrate ..	93	73	83	98	140	312	258
Cyanamide ..	10,267	26,776	17,859	4,771	5,033	4,862	5,190
<b>Finland (total imports)—</b>							
Nitrate of potash ..	262	36	14	—	17	33	37
Nitrate of soda ..	73	29	5	100	1	17,539	5,637
Nitrate of lime ..	43,553	49,393	28,896	—	6,212	24,977	22,630
Ammonium nitrate ..	1,116	2,366	1,908	2,335	4,495	14,283	17,383
Ammonium sulphate ..	19,904	18,516	5,122	1,311	203	966	608
Ammonium chloride ..	320	168	43	—	133	156	43
Cyanamide ..	—	4,226	1,767	5,106	—	—	—
Liquid ammonia ..	3	60	102	48	17	41	215
<b>France—</b>							
Nitrate of soda ..	—	—	—	37,662	196,194	135,103	128,826
Nitrate of lime, etc. ..	—	—	984	44,063	180,413	94,068	11,748
Ammonium sulphate (b) ..	28,311	6,971	1,633	19,719	17,952	21,305	32,314
Ammonium nitrate ..	—	1	—	899	10,567	—	119,856
Cyanamide ..	—	—	—	325	—	1,968	6,709
Liquid ammonia ..	6,244	2,457	1	44	1	3,121	32
Other nitrogen fertilizers	—	137	—	4,003	19,737	35,191	2,040
<b>Germany—</b>							
Nitrate of potash ..	2	—	(c) —	} (a)	(a)	(d) 59,052	(a)
Nitrate of soda ..	5	5	(c) —				
Nitrate of lime, etc. ..	1,240	316	(c) 902				
Cyanamide ..	322	39	(c) —				
Ammonium sulphate ..	—	95	(c) 945				
Ammonium chloride ..	28	513	(c) 3,216				
Liquid ammonia ..	9,160	32,179	(c) 9,013				
<b>Greece—</b>							
Nitrate of soda ..	} (a)	(a)	(a)	} (a)	8,779	—	(a)
Ammonium sulphate ..					4,462	—	(a)
Liquid ammonia ..					95	67	(a)
<b>Iceland—</b>							
Nitrate of lime ..	2	—	—	1	3,550	} (a)	(a)
Nitrate of soda ..	6	4	—	13	2		
Ammonium sulphate ..	3,460	2,946	2,947	2,669	893		
Lime ammonium nitrate	—	—	—	892	2,179		
Nitrophoska ..	—	—	—	—	—		
Other nitrogen fertilizers	30	100	100	246	250		
<b>Italy—</b>							
Nitrate of potash ..	(a)	(a)	(a)	(a)	(a)	1,540	753
Nitrate of soda ..	(a)	(a)	(a)	(a)	(a)	70,834	29,557
Ammonium chloride ..	(a)	(a)	(a)	(a)	(a)	197	279
Ammonium nitrate ..	(a)	(a)	(a)	(a)	(a)	6,693	642
Cyanamide ..	(a)	(a)	(a)	(a)	(a)	8,269	50
<b>Netherlands—</b>							
Nitrate of potash ..	5,443	275	(a)	(a)	156	198	220
Nitrate of soda ..	573	516	(a)	(a)	114,450	55,781	69,288
Nitrate of lime ..	—	—	(a)	(a)	29,461	19,647	14,963
Ammonium sulphate ..	—	15	(a)	(a)	982	14,069	966
Ammonium chloride ..	835	452	(a)	(a)	85	206	160
Ammonium nitrate ..	—	—	(a)	(a)	78,271	106,927	60,184
Lime ammonium nitrate	2,550	2,644	(a)	(a)	2	—	—
Cyanamide ..	12,866	—	(a)	(a)	14,181	19,887	11,704
Other nitrogen fertilizers	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	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Norway—							
Nitrate of potash ..	77	53	37	210	122	115	93
Nitrate of soda ..	—	39	—	—	—	—	—
Ammonium sulphate ..	6	—	15	—	—	—	162
Ammonium nitrate ..	—	800	581	—	—	—	—
Poland—							
Ammonium nitrate ..	(a)	(a)	(a)	(a)	(a)	17,440	(a)
Portugal—							
Nitrate of potash ..	152	79	50	278	198	249	122
Nitrate of soda ..	33,634	43,392	39,860	33,877	44,998	22,834	50,644
Ammonium sulphate ..	195	16,114	3,348	9,828	7,820	24,320	39,249
Ammonium chloride ..	78	64	48	146	623	561	300
Ammonium nitrate ..	280	707	697	13,958	8,198	1,603	4,518
Cyanamide ..	(a)	(a)	(a)	200	4,348	3,758	974
Lime ammonium nitrate	—	—	—	—	—	—	3,008
Spain—							
Nitrate of soda ..	36,575	26,733	44,926	47,412	68,550	87,518	73,069
Cyanamide ..	11,988	2,102	4,296	761	—	—	975
Ammonium sulphate ..	29,845	56,075	353	—	—	37,143	45,549
Synthetic nitrates ..	10,687	15,605	23,792	1,446	31,355	4,162	10,039
Sweden—							
Nitrate of potash ..	531	317	288	101	592	412	223
Nitrate of soda ..	1,549	761	18,276	12,152	24,280	18,156	23,520
Nitrate of lime ..	102,528	98,849	69,685	98,328	111,172	79,374	78,177
Ammonium nitrate ..	38	93	—	—	—	—	1
Ammonium sulphate ..	6,182	2,988	3,148	25	21	20	14
Ammonium chloride ..	570	550	327	208	758	613	890
Liquid ammonia ..	4	—	—	—	—	5	—
Switzerland—							
Nitrate of potash, crude	—	—	—	—	49	—	—
Nitrates of potash and soda, purified ..	940	184	94	39	707	737	89
Ammonium sulphate, etc.	3	1,970	—	—	10	5	105
Ammonium chloride ..	494	235	62	88	383	644	331
Liquid ammonia ..	1	17	1	—	1	—	—
Algeria—							
Nitrate of potash ..	20	—	—	12	20	15	100
Nitrate of soda ..	290	216	69	557	275	5,187	8,494
Nitrate of lime ..	69	—	5,368	2,935	4,643	1,157	—
Ammonium sulphate ..	4,255	—	1	—	4,204	18,343	12,666
Cyanamide ..	30	—	—	—	41	20	985
Liquid ammonia ..	38	8	8	25	135	141	75
Egypt—							
Nitrate of soda ..	146,535	147,438	229,739	225,195	169,720	367,057	369,245
Ammonium sulphate ..	—	6,375	21,479	14,300	20,807	21,797	63,620
Ammonium chloride ..	524	330	94	324	287	3	582
Ammonium nitrate ..	—	—	14,151	36,205	—	10	20,854
Nitro-chalk ..	—	—	—	—	—	—	—
Madagascar—							
Nitrogenous fertilizers ..	(a)	(a)	(a)	(a)	1,480	2,311	1,177
Morocco (French)—							
Nitrate of soda ..	123	—	62	79	523	633	(a)
Ammonium sulphate ..	716	12	44	5	528	7,510	(a)
Morocco (Spanish)—							
Ammonium sulphate ..	(a)	(a)	89	42	105	110	(a)
Mozambique—							
Ammonium sulphate ..	—	10	—	11	—	—	—
Tunis—							
Nitrate of potash ..	9	—	5	1	6	12	16
Nitrate of soda ..	123	97	121	89	90	186	276
Nitrate of lime ..	—	—	—	—	63	—	20
Ammonium sulphate ..	408	24	—	—	—	290	1,256

(a) Information not available.

## IMPORTS OF NITROGEN COMPOUNDS (Cont.)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Cuba—							
Nitrates of potash and soda	12,208	632	2,416	22,190	} (a)	(a)	(a)
Ammonium sulphate ..	3,381	2,767	4,564	11,638			
Anhydrous ammonia ..	106	137	87	255			
Martinique—							
Ammonium sulphate ..	90	—	—	(a)	(a)	(a)	(a)
Mexico—							
Nitrates of potash and soda	7,693	18,052	12,567	15,695	11,236	} (a)	(a)
Ammonium sulphate ..	19	841	990	4,371	2,899		
Ammonium chloride ..	137	133	457	198	376		
Ammonium nitrate ..	3,743	4,035	1,872	2,504	2,206		
United States—							
Nitrates of potash and soda, crude ..	12,743	17,667	8,399	—	3,929	2,232	—
Nitrate of soda ..	686,727	679,612	636,611	758,829	472,926	496,897	643,717
Nitrate of lime ..	—	—	4	—	2,946	7,900	8,715
Ammonium sulphate ..	47,625	89,131	92,525	106,152	90,677	102,141	94,542
Ammonium chloride ..	189	108	—	2,637	328	369	821
Ammonium nitrate ..	92,396	50,136	283	585	987	88,786	89,860
Ammonium phosphates	25,521	39,274	82,092	82,819	81,351	93,919	96,632
Cyanamide ..	80,357	112,173	90,970	125,944	145,619	137,289	104,021
Argentina—							
Nitrate of potash ..	248	87	168	(a)	(a)	} (a)	(a)
Nitrate of soda ..	7,425	15,170	33,261	13,785	12,572		
Ammonium sulphate ..	50	97	—	—	309		
Liquid ammonia ..	6	10	—	19	21		
Anhydrous ammonia ..	1	—	—	—	44		
Brazil (total imports)—							
Nitrate of potash ..	789	828	1,364	956	676	906	(a)
Nitrate of soda ..	33,935	14,911	42,217	29,874	34,905	69,358	36,782
Ammonium nitrate ..	—	—	18	45	10	90	(a)
Ammonium sulphate ..	155	—	29	437	864	1,354	(a)
Cyanamide ..	98	—	177	31	137	49	(a)
Liquid ammonia ..	125	105	113	201	266	313	(a)
Chile—							
Ammonium chloride ..	83	633	64	214	261	} (a)	(a)
Ammonium sulphate ..	1	21	73	3	4		
Ammonium nitrate ..	2,745	3,349	4,145	5,003	3,248		
Liquid ammonia ..	25	14	21	19	3		
Anhydrous ammonia ..	58	103	57	100	86		
Colombia—							
Nitrate of potash ..	63	143	197	79	249	} (a)	(a)
Nitrate of soda ..	291	1,450	492	2,367	2,287		
Ammonium chloride ..	3	15	(a)	17	6		
Ammonium sulphate ..	43	201	(a)	212	7		
Peru—							
Nitrate of soda (c) ..	30,239	39,690	24,358	27,971	36,625	(a)	(a)
Liquid ammonia ..	49	112	125	102	103	(a)	(a)
Uruguay—							
Nitrate of potash ..	(a)	167	147	} (a)	(a)	(a)	(a)
Ammonium sulphate ..	(a)	(a)	88				
Ammonium chloride ..	(a)	(a)	(a)				
Liquid ammonia ..	(a)	(a)	(a)				
Venezuela—							
Nitrate of potash ..	45	59	—	31	66	50	(a)
Liquid ammonia ..	14	9	—	25	18	50	(a)
China—							
Nitrate of potash ..	} (a)	(a)	(a)	(a)	214	710	(a)
Nitrate of soda ..					370	2,395	(a)
Ammonium sulphate ..					3,923	28,794	(a)

(a) Information not available.

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



## IMPORTS OF NITROGEN COMPOUNDS (Cont.)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Japan (total imports)—							
Ammonium sulphate ..	93,500	69,879	2,953	39,368	(a)	(a)	47,215
Ammonium nitrate ..	(a)	(a)	(a)	(a)	—	239,096	276,051
Syria and Lebanon—							
Nitrates .. ..	992	2,055	2,159	2,168	3,370	(a)	(a)
Ammonium chloride ..	33	38	22	32	73	(a)	(a)
Liquid ammonia ..	4	98	8	9	1	(a)	(a)
Turkey—							
Nitrate of soda .. ..	(a)	(a)	45	77	—	2,252	1,372
Ammonium chloride ..	(a)	(a)	127	16	—	125	270
Ammonium sulphate ..	(a)	(a)	—	671	890	135	3,961
Ammonium nitrate ..	(a)	(a)	—	—	—	—	150
Cyanamide .. ..	(a)	(a)	—	370	—	—	—
Di-ammonium phosphate	(a)	(a)	—	1,385	—	—	906
Other nitrogen fertilizers	(a)	(a)	—	—	50	1,485	—

(a) Information not available.

# PETROLEUM AND ALLIED PRODUCTS

## PRODUCTION OF CRUDE PETROLEUM\*

(Long tons)

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom—							
Crude petroleum .. .. .	81,523	112,811	94,607	71,600	55,399	47,255	43,500
Shale oil .. .. .	149,123	144,531	133,966	116,186	111,775	97,232	109,600
Union of South Africa							
(Shale oil) (c) .. .. .	25,000	24,200	24,200	25,400	22,700	29,200	39,300
Canada (b) .. .. .	1,311,999	1,272,443	1,278,405	1,073,772	960,197	973,733	1,555,273
Barbados .. .. .	303	270	93	248	183	44	11
Trinidad (b) .. .. .	3,137,400	3,040,900	3,077,600	3,000,000	2,877,400	2,919,000	2,872,493
Bahrein Islands .. .. .	836,111	879,929	899,432	980,014	1,073,870	1,262,336	1,463,454
Brunei .. .. .	(d e) 400,000	(d e) 600,000	(d e) 800,000	(d e) 295,000	285,496	1,700,231	2,645,412
Burma (b) .. .. .	(a)	(a)	(a)	37,000	—	11,570	44,528
India (b) .. .. .	} 377,359	369,571	376,267	319,288	296,340	251,707	253,313
Pakistan .. .. .						51,239	57,506
Kuwait (i) .. .. .	—	—	—	—	797,350	2,815,143	6,291,577
Sarawak .. .. .	(f)	(f)	(f)	(f)	(a)	23,964	46,597
New Zealand .. .. .	352	300	300	372	333	336	339
<b>Total (j) .. .. .</b>	<b>6,319,000</b>	<b>6,445,000</b>	<b>6,685,000</b>	<b>5,919,000</b>	<b>6,481,000</b>	<b>10,183,000</b>	<b>15,399,000</b>
<b>FOREIGN COUNTRIES</b>							
Albania .. .. .	153,325	109,048	—	110,000	120,000	180,000	240,000
Austria .. .. .	853,970	1,077,822	1,184,434	446,534	832,338	(d) 900,000	(d) 900,000
Czechoslovakia .. .. .	39,000	29,000	26,000	25,400	23,300	36,600	35,000
France .. .. .	64,166	66,254	61,400	27,941	50,865	49,090	50,800
Germany .. .. .	745,350	716,391	700,209	533,329	(g) 638,900	(g) 567,506	(g) 625,700
Hungary .. .. .	654,695	824,480	797,177	645,418	650,207	560,700	476,000
Italy .. .. .	13,810	11,588	7,476	6,920	10,611	10,296	9,064
Netherlands .. .. .	—	209	1,749	5,759	61,657	209,300	487,635
Poland .. .. .	373,000	395,000	344,000	102,461	114,898	126,212	(d) 133,000
Roumania .. .. .	5,576,000	5,190,000	3,469,300	4,606,000	4,189,767	3,736,393	4,084,000
U.S.S.R. (d) .. .. .	31,200,000	35,000,000	18,000,000	20,000,000	22,000,000	26,200,000	29,500,000
Yugoslavia .. .. .	11,774	24,297	33,001	(d) 30,000	(d) 36,000	(d) 36,000	(d) 45,000
Algeria .. .. .	276	226	557	253	162	128	108
Egypt .. .. .	1,163,145	1,264,672	1,331,575	1,328,160	1,262,053	1,312,542	1,860,736
Morocco (French) .. .. .	5,253	4,962	4,113	3,350	2,534	2,723	12,715
Cuba .. .. .	19,918	13,624	14,534	18,652	19,727	21,832	(a)
Mexico (b) .. .. .	4,903,488	4,952,594	5,380,710	6,312,151	6,632,850	8,026,400	8,245,549
United States (b) .. .. .	189,951,370	206,248,356	229,849,863	234,747,260	237,525,890	254,381,781	276,203,013
Argentina (h) .. .. .	3,337,242	3,497,789	3,406,401	3,216,659	2,924,574	3,071,410	3,265,272
Bolivia .. .. .	42,756	47,017	44,179	53,712	51,044	53,107	65,290
Brazil .. .. .	4,250	6,140	7,440	10,160	8,600	12,410	18,450
Colombia (b) .. .. .	1,477,091	1,867,756	3,189,785	3,214,793	3,158,242	3,518,310	3,352,300
Ecuador .. .. .	325,400	330,700	413,000	355,163	315,563	314,730	341,879
Peru .. .. .	1,782,354	1,917,605	1,883,547	1,798,543	1,612,795	1,674,410	1,842,594
Venezuela .. .. .	21,455,360	25,977,866	37,223,435	46,834,474	56,258,426	62,979,666	70,503,375

\* Excluding Natural Gasoline. See page 203.

(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, Ecuador 7.5, Venezuela 6.95, Netherlands East Indies 7.5.

(c) Years ended June 25 of that stated.

(d) Estimated.

(e) Including Sarawak.

(f) Included with Brunei.

(g) British and U.S. Zones.

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

(i) Previously included under Foreign Countries.

(j) Revised to include Kuwait.

PRODUCTION OF CRUDE PETROLEUM (Cont.)

Producing Country	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
China .. .. .	36,260	55,400	62,600	60,100	65,600	52,400	80,000
Formosa .. .. .	6,716	5,366	5,558	509	2,000	2,600	(a)
Iran .. .. .	9,399,231	9,705,769	13,274,243	16,839,490	19,189,551	20,192,419	24,871,058
Iraq .. .. .	2,622,587	3,591,595	4,180,539	4,816,156	4,712,235	4,759,387	3,426,482
Japan .. .. .	230,000	247,000	226,000	210,200	186,600	178,300	157,000
Netherlands East Indies (b)	2,650,000	5,321,000	3,762,000	1,065,000	306,069	1,197,425	4,258,000
Saudi Arabia .. .. .	604,000	649,000	1,039,000	2,841,500	7,992,250	11,980,260	19,047,055
TOTAL .. .. .	280,000,000	310,000,000	330,000,000	350,266,000	370,955,000	406,344,000	454,165,000
WORLD'S TOTAL ..	286,000,000	315,600,000	336,600,000	356,185,000	377,436,000	416,527,000	469,564,000

(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	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
Trinidad (b) .. .. .	22,390	20,680	21,020	20,680	21,250	20,570	20,700
India .. .. .	502	345	(a)	(a)	(a)	(a)	(a)
FOREIGN COUNTRIES							
Poland .. .. .	(a)	(a)	(a)	(a)	3,623	9,984	(a)
Roumania .. .. .	191,283	187,050	136,811	136,800	128,810	113,689	(a)
Cuba .. .. .	17,100	11,700	10,800	(a)	(a)	(a)	(a)
United States .. .. .	9,561,000	10,066,000	11,481,000	12,853,000	13,282,000	15,167,000	16,694,000
Argentina .. .. .	12,212	12,239	(a)	(a)	(a)	(a)	(a)
Ecuador .. .. .	4,200	3,900	(a)	4,800	4,700	(a)	(a)
Peru.. .. .	104,110	107,798	107,537	109,882	106,468	104,114	110,675
WORLD'S TOTAL (c)	9,910,000	10,400,000	11,770,000	14,150,000	13,570,000	15,420,000	17,000,000

(a) Information not available.

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

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

PRODUCTION OF NATURAL GAS\*

(Million cubic feet)

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
Union of South Africa	(a)	(a)	(a)	(a)	(a)	9	11
Canada .. .. .	45,697	44,276	45,067	48,412	47,900	52,657	58,603
Trinidad .. .. .	(a)	(a)	(a)	(a)	(a)	29,617	30,697
Brunei .. .. .	(a)	(a)	(a)	(a)	(b) 1,000	8,933	19,837
<b>FOREIGN COUNTRIES</b>							
France .. .. .	114	1,631	2,322	3,015	3,891	5,191	6,145
Germany (Bizone) .. .. .	(a)	(a)	(a)	(a)	3,860	2,746	2,377
Hungary .. .. .	1,723	2,500	1,547	(c) 1,420	3,221	3,560	4,136
Italy .. .. .	1,932	1,942	1,738	1,475	2,264	3,285	3,818
Poland .. .. .	31,077	33,549	6,554	4,590	5,153	5,236	(b) 9,147
Roumania .. .. .	52,760	50,317	32,885	46,065	47,844	(a)	(a)
Mexico .. .. .	32,165	28,986	25,723	26,910	27,122	35,258	37,361
United States .. .. .	3,053,475	3,414,689	3,711,039	3,918,686	4,030,605	4,582,173	5,148,020
Argentina .. .. .	23,866	23,893	23,378	21,507	19,998	(a)	21,411
Ecuador .. .. .	1,896	1,730	2,274	2,476	2,338	3,072	(a)
Uruguay .. .. .	145	98	132	111	150	104	16
Venezuela .. .. .	105,097	113,149	179,682	256,385	331,394	402,589	470,393
China (d) .. .. .	5	5	5	5	2,157	1,928	(a)

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) Estimated.
- (c) July to December only.
- (d) Partial production only.

PRODUCTION OF NATURAL ASPHALT, ETC.

(Long tons)

Producing Country	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
Barbados (exports of manjak)	41	18	22	9	—	—	—
Trinidad .. .. .	63,409	84,701	71,877	63,118	93,851	87,346	128,993
FOREIGN COUNTRIES							
Albania (estimated) ..	(a)	(a)	(a)	(a)	9,000	14,000	(a)
Italy .. .. .	814	211	—	—	(a)	(a)	(a)
Poland (ozokerite) ..	364	639	—	—	(a)	(a)	(a)
Spain .. .. .	3,840	9,050	6,200	9,800	2,560	4,507	4,709
Angola (Libollite) ..	(a)	(a)	(a)	(a)	118	1,000	200
French Equatorial Africa—							
Bitumen .. .. .	—	—	—	344	—	—	—
French West Africa—							
Bitumen .. .. .	(a)	159	118	133	—	—	—
Cuba (c) .. .. .	11,571	44,000	39,000	(b) 8,927	2,048	(a)	(a)
Mexico (exports) .. ..	(a)	—	6,806	2,085	429	(a)	(a)
United States (sales)—							
Gilsonite .. .. .	36,644	45,041	43,796	54,708	61,078	59,969	46,537
Wurtzilite .. .. .	33	37	10	—	21	15	—
Argentina—							
Rafaelite .. .. .	1,952	550	1,824	1,471	(a)	(a)	(a)
Asphaltite .. .. .	55,496	103,958	97,000	124,100	82,500	81,800	(a)
Iraq .. .. .	(a)	2,205	(a)	(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	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES							
France .. .. .	27,253	18,031	13,857	13,768	31,244	35,776	44,008
Italy .. .. .	259,656	205,327	137,955	142,885	201,246	245,838	241,336
Spain .. .. .	85,566	96,816	99,232	99,574	106,129	67,745	74,465
Switzerland .. .. .	5,790	10,973	6,447	9,235	10,173	9,346	(a)
Angola .. .. .	2,498	4,645	4,393	6,159	7,340	7,294	11,958
United States (sales) ..	835,085	746,114	661,120	573,750	694,158	897,089	967,861
Netherlands East Indies ..	(a)	(a)	(a)	(a)	2,408	195	(a)
Syria .. .. .	34,000	17,300	(a)	(a)	(a)	16,000	(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	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
Great Britain .. .. .	1,784,247	1,759,215	1,609,363	1,398,202	1,316,533	1,110,817	1,380,700
Union of South Africa (b)	109,849	116,254	112,527	119,275	111,891	165,816	205,318
Australia .. .. .	117,324	116,875	137,458	123,170	121,654	138,427	136,352
FOREIGN COUNTRIES							
Austria .. .. .	(a)	(a)	(a)	(a)	2,598	1,701	1,122
France .. .. .	191,241	258,433	218,081	222,248	340,043	409,238	436,465
Italy .. .. .	50,683	35,169	9,822	12,855	5,018	3,158	5
Sweden (c) .. .. .	1,089,112	1,648,984	2,325,847	1,751,282	1,843,937	1,326,963	1,376,567

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

(a) Information not available.

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

(c) Alum shale.

PRODUCTION OF PETROLEUM REFINERY PRODUCTS IN CERTAIN COUNTRIES

(Long tons)

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
<b>United Kingdom—</b>							
Motor spirit .. ..	271,700	313,300	464,700	431,500	486,800	328,600	617,100
Other spirit .. ..	43,600	40,500	44,200	43,100	69,700	69,800	80,200
Kerosene .. ..	7,500	4,500	3,200	4,800	38,200	89,300	121,300
Gas oil and diesel oil ..	157,900	168,300	182,600	202,100	470,500	436,600	900,800
Fuel oil .. ..	194,400	149,300	170,900	195,300	596,000	812,200	1,753,200
Lubricating oil .. ..	156,400	209,100	229,700	253,700	312,600	344,100	365,800
Bitumen .. ..	243,108	173,008	254,050	278,621	459,529	433,068	522,900
Paraffin wax .. ..	14,496	14,269	13,494	11,097	11,910	15,228	16,100
<b>Canada* (b)—</b>							
Aviation spirit .. ..	288,302	302,563	340,519	60,873	25,385	28,977	45,815
Motor spirit .. ..	2,159,179	2,455,019	2,798,943	3,061,777	3,310,244	3,493,187	3,950,359
Solvent naphtha .. ..	81,667	97,039	107,587	108,133	96,819	105,716	107,478
Kerosene, etc. .. ..	179,906	206,641	205,875	264,673	430,782	343,921	463,897
Gas oil .. ..	543,060	506,845	451,942	488,482	729,299	982,988	722,935
Fuel oil (b) .. ..	2,561,536	2,585,516	2,763,249	2,684,093	2,689,658	2,751,830	3,378,977
Diesel oil .. ..	309,846	444,208	359,462	455,844	507,680	711,853	757,401
Tractor oil .. ..	174,516	154,036	164,554	144,007	146,784	138,281	171,700
Lubricating oil .. ..	152,551	158,975	191,078	205,735	226,881	242,093	270,080
Grease .. ..	9,319	9,559	9,422	8,997	10,273	13,521	16,406
Coke .. ..	65,546	76,171	65,008	59,660	62,156	69,754	78,070
Asphalt .. ..	250,299	208,671	286,920	315,013	415,431	580,123	633,004
<b>Barbados—</b>							
Motor spirit .. ..	380	270	320	291	(a)	(a)	(a)
Kerosene .. ..	540	370	450	500	(a)	(a)	(a)
Fuel oil .. ..	3,250	1,660	2,060	1,790	(a)	(a)	(a)
<b>Trinidad</b>							
Aviation spirit .. ..							78,902
Motor spirit .. ..							616,499
White spirit .. ..							654
Kerosene .. ..							59,354
Vapourising oil .. ..							167,534
Gas and diesel oil .. ..	(a)	(a)	(a)	(a)	(a)	(a)	561,193
Fuel oil .. ..							2,078,369
Lubricating oil and greases .. ..							352
Bitumen .. ..							61,098
Other finished products							17,319
<b>Bahrein Islands—</b>							
Aviation spirit .. ..	—	—	—	67,897	17,654	2,935	—
Motor spirit .. ..	378,673	406,148	418,165	605,854	894,652	1,198,529	1,458,000
Kerosene .. ..	225,828	236,555	206,860	303,528	505,311	726,895	665,000
Diesel oil .. ..	186,689	178,323	342,583	583,483	867,166	944,974	1,253,000
Fuel oil .. ..	293,029	253,391	305,750	858,825	1,793,629	2,776,980	3,334,000
<b>India—</b>							
<b>Assam—</b>							
Motor spirit .. ..	47,192	74,760	86,628	75,208	60,826	53,791	58,520
Kerosene .. ..	79,023	61,398	59,799	38,172	50,851	49,662	40,482
Batching oil .. ..	18,335	22,453	13,831	2,013	1,293	2,012	
Other oils .. ..					8,000	10,685	32,110
Lubricating oils .. ..					15,755	19,242	
Fuel oil .. ..	49,800	57,136	96,973	86,713	40,522	47,001	59,735
Coke .. ..					11,282	11,172	10,699
Bitumen .. ..					3,598	1,187	2,824
Paraffin wax .. ..	21,054	29,965	29,354	31,826	32,677	35,624	39,665
<b>Punjab—</b>							
Motor spirit .. ..	36,994	23,309	12,606	7,783	7,097		
Kerosene .. ..	16,089	10,732	5,433	2,226	1,826		
Diesel oil .. ..	2,353	2,054	3,112	2,407	1,578		
Fuel oil .. ..	23,296	8,929	6,803	3,833	3,605	(a)	(a)
Lubricating oil .. ..	11,614	13,833	11,623	8,571	3,945		
Greases .. ..	73	140	227	215	293		
Paraffin wax .. ..	64	92	99	18	79		

\* See note on page 213.

(a) Information not available.

(b) Including the amounts used at the refineries. In the case of Fuel oil these amounts were as follows (long tons):—  
1942—274,718; 1943—348,098; 1944—422,603; 1945—438,378; 1946—446,359; 1947—479,804; 1948—511,571.

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

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES (Cont.)</b>							
<b>Sarawak—</b>							
Motor spirit .. ..	(a)	(a)	(a)	(a)	(a)	(a)	121,100
Vapourising oil .. ..							
Gas and diesel oil .. ..							
Refinery fuel .. ..							
Unfinished oil .. ..							
<b>Australia (b)—</b>							
Motor spirit .. ..	(a)	(a)	39,323	21,665	25,949	81,766	182,067
Kerosene .. ..			453	765	(a)	(a)	(a)
Fuel oil .. ..			4,948	(a)	(a)	(a)	(a)
Lubricating oil .. ..			9,156	6,044	5,938	10,657	23,920
Grease .. ..			7,143	4,506	3,719	4,735	9,589
<b>FOREIGN COUNTRIES</b>							
<b>Belgium—</b>							
Motor spirit .. ..	(a)	(a)	(a)	(a)	6,000	21,200	27,031
Kerosene .. ..					4,000	8,100	10,357
Fuel oil, etc. .. ..					31,000	72,700	148,468
Lubricating oil .. ..					5,000	5,000	6,058
Asphalt, etc. .. ..					34,000	(a)	66,906
<b>Denmark—</b>							
Gas oil .. ..	(a)	(a)	(a)	(a)	(a)	200	7,281
Diesel oil .. ..	(a)	(a)	(a)	(a)	(a)	6,100	
Lubricating oil .. ..	2,560	4,130	4,212	4,763	8,542	9,951	
Grease .. ..	200	237	217	197	656	870	
Asphalt .. ..	(a)	(a)	(a)	(a)	16,303	13,275	
<b>France—</b>							
Motor spirit .. ..	20,000	4,900	1,275	72,800	740,167	1,252,481	1,752,700
Kerosene and white spirit	10,000	11,200	10,979	3,720	101,510	195,558	267,229
Gas oil .. ..	3,100	1,132	—	39,400	421,693	599,864	1,133,468
Fuel oil .. ..	3,050	890	—	124,000	880,284	1,811,008	3,839,844
Lubricating oil .. ..	5,300	3,200	—	866	67,310	171,646	213,949
Road oil .. ..	2,200	2,560	1,058	2,460	(a)	(a)	(a)
Paraffin wax .. ..	3,800	2,560	684	—	(a)	(a)	3,012
<b>Germany (c)—</b>							
Motor spirit .. ..	(a)	(a)	(a)	(a)	87,400	70,800	90,500
Diesel oil .. ..					95,700	77,200	90,000
Lubricating oil .. ..					144,100	161,700	196,500
Bitumen .. ..					30,600	47,600	119,800
<b>Hungary—</b>							
Motor spirit .. ..	(a)	(a)	(a)	(a)	200,000	(a)	(a)
Kerosene .. ..					121,000	(a)	(a)
Gas oil .. ..					97,000	(a)	(a)
Fuel oil .. ..					155,000	(a)	(a)
Lubricating oil .. ..					4,000	(a)	(a)
<b>Italy—</b>							
Motor spirit .. ..	87,006	33,278	2,037	1,156	11,953	296,026	407,543
Kerosene .. ..	7,404	4,592	546	26	5,993	122,120	184,548
Gas and diesel oil .. ..	12,728	93,834	2,897	28	16,885	304,111	498,762
Fuel oil .. ..	145,015	34,930	894	397	13,464	458,852	883,330
Lubricating oil .. ..	30,041	34,349	1,096	230	—	23,739	26,216
Paraffin wax .. ..	1,300	3,193	24	14	—	—	—
Coke .. ..	3,043	1,620	—	—	109	18,728	23,137
Bitumen .. ..	11,061	3,658	751	404	—	38,703	63,585
Turpentine substitute .. ..	2,657	2,228	174	292	—	6,865	2,441
Other products .. ..	10,164	3,292	—	—	—	7,821	11,033
<b>Netherlands—</b>							
Motor spirit .. ..	(a)	(a)	(a)	(a)	(a)	(a)	500,433
Kerosene .. ..							763
Diesel oil .. ..							186,829
Residual fuel oil .. ..							598,640
Lubricating oil .. ..							1,709
Coke .. ..	111,002						
Asphalt .. ..	134,861						

(a) Information not available.  
(c) British and American Zones only.

(b) Years ended June 30 of year stated.



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

Producing Country	1942	1943	1944	1945	1946	1947	1948							
<b>FOREIGN COUNTRIES (Cont.)</b>														
<b>Poland—</b>														
Motor spirit .. ..	25,614	27,212	3,082	(a)	33,796	46,582	(a)							
Kerosene .. ..	(a)	(a)	(a)	(a)	17,150	29,138	(a)							
Gas oil and light oils .. ..					29,562	33,303	(a)							
Lubricating oil .. ..					19,279	28,073	(a)							
Greases .. ..					2,182	3,393	(a)							
Paraffin wax .. ..					8,268	8,138	(a)							
Petroleum jelly .. ..					627	564	(a)							
Asphalt .. ..					9,391	3,466	(a)							
Coke .. ..	1,231	1,719	(a)											
<b>Portugal—</b>														
Motor spirit .. ..	(a)	(a)	(a)	(a)	(a)	(a)	63,220							
Kerosene .. ..							23,845							
Gas oil .. ..							40,011							
Fuel oil .. ..							112,972							
<b>Roumania—</b>														
Motor spirit .. ..	1,446,800	1,394,000	845,327	1,322,096	1,085,793	1,068,687	(a)							
White spirit .. ..	181,000	177,000	79,000	98,000	65,000	14,130	(a)							
Kerosene .. ..	502,962	480,645	298,417	450,549	514,662	460,719	(a)							
Gas oil (b) .. ..	748,109	608,365	384,933	579,874	507,000	443,285	(a)							
Fuel oil (b) .. ..	1,600,321	1,563,369	1,059,515	1,729,809	1,456,000	1,262,992	(a)							
Lubricating oil .. ..	156,000	140,000	68,000	95,603	100,000	81,237	(a)							
Paraffin wax .. ..	12,000	7,200	3,000	4,200	4,900	6,995	(a)							
Coke .. ..	8,713	15,730	5,882	3,468	4,900	8,774	(a)							
Asphalt .. ..	117,466	92,926	42,368	33,534	49,000	35,982	(a)							
Other products .. ..	27,016	38,955	40,356	36,196	8,722	14,198	(a)							
<b>Sweden—</b>														
Motor spirit .. ..	20,486	3,767	18,285	25,647	55,972	52,907	51,308							
White spirit .. ..								1,939						
Kerosene .. ..								23	2,942	5,379	7,156	12,612	20,233	
Fuel oil, etc. .. ..								21,442	40,138	44,039	63,744	373,346	408,645	362,716
Lubricating oil .. ..								2,293	2,526	3,043	2,728	5,802	10,208	16,055
Asphalt .. ..								78	234	1,550	2,693	17,730	56,428	75,930
<b>Canary Islands—</b>														
Motor spirit .. ..	25,000	46,000	45,000	60,000	145,000	185,000	185,000							
Kerosene .. ..	5,000	10,000	10,000	15,000	20,000	20,000	30,000							
Gas oil .. ..	10,000	20,000	15,000	20,000	50,000	55,000	140,000							
Fuel oil .. ..	37,000	50,000	46,000	60,000	200,000	200,000	270,000							
Asphalt .. ..	3,000	3,000	3,000	3,000	10,000	10,000	10,000							
<b>Egypt—</b>														
Motor spirit .. ..	164,068	166,945	182,586	180,805	193,225	195,215	189,700							
Kerosene .. ..	57,015	60,368	64,415	66,852	65,845	70,424	92,500							
Gas, diesel and fuel oils .. ..	700,980	713,431	832,061	803,010	749,567	759,505	1,298,700							
Asphalt .. ..	150,367	145,694	170,099	170,099	173,356	138,310	59,591							
<b>Morocco (French)—</b>														
Motor spirit .. ..	2,036	3,194	1,492	1,224	703	755	873							
Kerosene .. ..	468	459	230	158	71	181	—							
Diesel oil, fuel oil, etc. .. ..	2,782	4,356	2,236	1,867	1,087	1,725	8,124							
<b>Cuba—</b>														
Motor spirit .. ..	(a)	(a)	(a)	(a)	56,200	61,500	(a)							
Turpentine substitute .. ..	(a)	(a)	(a)	(a)	1,000	—	(a)							
Kerosene .. ..	(a)	(a)	(a)	(a)	27,500	34,700	(a)							
Gas oil and diesel oil .. ..	(a)	(a)	(a)	(a)	58,800	62,800	(a)							
Lubricating oil .. ..	(a)	(a)	(a)	(a)	10,600	21,900	(a)							
Asphalt .. ..	11,571	44,000	39,000	(a)	27,600	29,700	(a)							

(a) Information not available.

(b) Excluding the amounts used at the refineries.

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

Producing Country	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Mexico—							
Motor spirit .. ..	1,610,000	1,666,000	1,745,000	1,877,000	2,069,000	2,557,000	(a)
Kerosene .. ..	344,000	409,000	464,000	550,000	607,000	714,000	(a)
Fuel oil .. ..	2,650,000	2,895,000	3,211,000	3,439,000	3,757,000	4,414,000	(a)
Gas oil .. ..	598,000	673,000	670,000	685,000	768,000	652,000	(a)
Lubricating oil .. ..	34,000	43,000	51,000	49,000	46,000	52,000	(a)
Paraffin wax .. ..	10,000	14,000	20,600	27,800	26,400	25,400	(a)
Asphalt .. ..	92,000	164,000	135,000	174,000	360,000	292,000	(a)
United States*—							
Aviation spirit .. ..	60,313,000	11,803,000	21,809,000	16,933,000	2,824,000	81,226,000	89,098,000
Motor spirit .. ..	8,587,600	47,502,536	50,826,000	61,255,000	72,918,000	14,052,000	15,509,000
Kerosene .. ..	5,407,600	9,198,000	9,971,000	10,312,000	13,285,000		
Gas oil and fuel oil distil-							
lates .. ..	27,540,000	29,612,200	33,481,300	34,891,400	40,305,400	43,704,200	53,289,000
Residual fuel oil .. ..	52,339,700	60,857,100	67,295,500	68,467,600	62,907,200	65,303,400	67,978,900
Lubricating oil .. ..	5,407,600	5,415,100	5,754,800	5,861,400	6,390,300	7,247,100	7,198,200
Paraffin wax .. ..	312,750	337,125	360,375	365,125	375,375	453,000	439,000
Coke .. ..	1,195,000	1,239,600	1,610,200	1,806,200	1,896,600	2,156,600	2,588,200
Asphalt .. ..	5,621,900	6,032,800	6,246,500	6,363,000	7,290,700	8,001,000	8,428,400
Road oil .. ..	1,278,900	365,100	247,500	427,000	928,000	1,125,000	1,259,000
Netherlands West Indies—							
Aviation spirit .. ..	505,000	948,000	1,015,000	779,000	409,000	508,000	} 5,789,940
Motor spirit .. ..	2,046,000	2,167,000	2,316,000	3,131,000	4,194,000	4,295,000	
Kerosene .. ..	566,000	1,000,000	726,000	659,000	1,197,000	1,462,000	1,279,539
Gas oil .. ..	737,000	950,000	546,000	1,148,000	2,164,000	2,113,000	1,984,314
Fuel oil .. ..	8,368,000	12,215,000	17,562,000	19,771,000	19,632,000	22,245,000	24,752,339
Diesel oil .. ..	907,000	1,035,000	1,398,000	1,642,000	1,943,000	2,317,000	3,630,522
Lubricating oil .. ..	226,000	202,000	91,000	61,000	194,000	132,000	237,133
Asphalt .. ..	33,619	1,462	107,352	169,000	114,000	211,000	73,379
Argentina—							
Aviation spirit .. ..	9,687	11,266	12,921	10,406	11,663	8,660	(a)
Motor spirit .. ..	936,014	862,839	799,069	748,721	954,872	1,076,561	1,202,311
Solvent naphtha, etc. .. ..	16,674	18,330	(a)	(a)	(a)	(a)	(a)
Kerosene .. ..	150,840	164,284	285,920	291,920	427,600	445,600	(a)
Fuel oil .. ..	1,481,425	1,563,207	1,500,655	1,497,319	1,421,137	1,557,115	1,866,360
Gas oil .. ..	79,774	64,736	52,292	49,838	66,931	69,300	117,388
Diesel oil .. ..	315,410	251,177	228,766	207,109	276,203	284,797	378,722
Lubricating oil .. ..	78,844	79,234	87,032	82,192	76,120	86,856	(a)
Grease .. ..	3,971	3,780	(a)	(a)	(a)	(a)	(a)
Paraffin wax .. ..	174	335	(a)	(a)	(a)	(a)	(a)
Asphalt .. ..	} 136,439	64,487	(a)	(a)	(a)	(a)	(a)
Coke .. ..		92,275	(a)	(a)	(a)	(a)	(a)
Bolivia—							
Motor spirit .. ..	13,882	12,098	11,022	13,015	12,623	15,518	20,223
Kerosene .. ..	2,200	2,550	1,720	2,688	3,044	3,146	4,243
Fuel oil .. ..	13,800	11,276	9,330	17,467	10,354	11,836	12,932
Diesel oil .. ..	2,450	1,720	1,820	2,670	2,414	2,855	3,527
Brazil—							
Motor spirit .. ..	11,037	5,210	11,357	(a)	14,575	14,087	14,361
Other spirit .. ..	2,753	2,684	4,291	(a)	(a)	(a)	(a)
Kerosene .. ..	3,845	2,850	4,376	(a)	6,950	4,843	3,910
Gas oil .. ..	(a)	(a)	(a)	(a)	2,831	1,414	(a)
Diesel oil .. ..	6,002	5,806	11,771	(a)	8,665	10,438	16,174
Fuel oil .. ..	2,896	3,198	7,066	(a)	13,363	14,150	19,361
Lubricating oil .. ..	602	636	935	(a)	404	529	382
Colombia—							
Aviation spirit .. ..	(a)	(a)	(a)	(a)	(a)	11,600	7,700
Motor spirit .. ..	115,909	115,399	128,233	130,000	141,000	184,000	155,000
Other spirit .. ..	856	1,214	1,514	1,900	2,500	2,200	4,000
Kerosene .. ..	17,190	21,793	22,419	23,000	23,000	31,000	30,500

\* See note on page 213.

(a) Information not available.

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

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
<b>Colombia (Cont.)—</b>							
Gas oil .. .. .	1,733	4,047	6,088	6,000	5,000	7,000	1,400
Fuel oil .. .. .	217,773	282,480	387,126	451,000	484,000	760,000	686,000
Diesel oil .. .. .	25,074	23,952	26,589	27,000	31,000	42,000	48,400
Lubricating oil .. .. .	4,248	4,002	5,098	5,000	7,000	6,000	6,000
Asphalt .. .. .	11,892	8,579	14,124	10,000	15,000	19,000	22,000
<b>Ecuador—</b>							
Motor spirit .. .. .	19,889	22,255	25,590	33,000	33,365	45,300	51,020
Kerosene .. .. .	6,168	7,504	7,466	9,000	9,792	11,600	12,100
Diesel oil .. .. .	9,363	12,527	14,540	18,000	16,208	26,400	34,500
Residual fuel oil .. .. .	58,700	69,600	68,700	68,000	83,600	85,000	81,200
Gas oil .. .. .	227	184	166	130	223	840	(a)
Lubricating oil .. .. .	341	443	541	280	340		
<b>Peru—</b>							
Motor spirit .. .. .	520,538	489,572	463,315	442,855	393,973	411,191	456,418
Kerosene .. .. .	68,158	96,200	132,418	125,689	109,961	95,286	114,154
Diesel oil .. .. .	304,588	343,194	371,334	426,482	409,171	440,430	160,953
Fuel oil .. .. .	948,813	988,903	887,549	785,309	514,096	421,010	817,901
Lubricating oil .. .. .	5,729	8,793	5,390	7,489	8,017	9,924	9,761
Coke .. .. .	73	100	95	52	179	221	305
Asphalt .. .. .	11,535	10,617	11,548	8,954	5,835	11,551	9,747
<b>Uruguay—</b>							
Motor spirit .. .. .	62,000	45,000	47,374	60,312	91,184	93,245	140,316
Kerosene .. .. .	34,000	22,000	26,058	34,526	53,709	62,145	87,807
Gas oil .. .. .	17,415	19,575	22,028	26,137	30,432	32,834	42,870
Fuel oil .. .. .	55,466	57,158	51,682	136,903	137,456	193,301	410,998
<b>Venezuela—</b>							
Motor spirit .. .. .	233,000	288,000	292,000	347,000	443,000	450,000	464,000
Kerosene .. .. .	38,000	45,000	52,000	63,000	72,000	92,000	89,000
Gas oil .. .. .	156,000	41,000	15,000	8,000	246,000	6,000	7,900
Fuel oil .. .. .	2,151,000	2,030,000	2,442,000	3,335,000	3,304,000	3,563,000	4,551,000
Diesel oil .. .. .	509,000	572,000	747,000	734,000	736,000	937,000	926,000
Asphalt .. .. .	—	—	—	—	—	25,000	38,000
<b>Burma—</b>							
Motor spirit .. .. .	(a)	(a)	(a)	(a)	—	2,798	8,756
Kerosene .. .. .						445	5,168
Diesel oil .. .. .						189	4,742
Fuel oil .. .. .						7,338	18,573
<b>Iran—</b>							
Aviation spirit .. .. .	350	481	952	888	(a)	(a)	(a)
Motor spirit .. .. .	1,205	1,631	2,062	2,417			
Kerosene, etc. .. .. .	692	720	857	1,157			
Diesel oil .. .. .	2,236	1,981	2,502	3,069			
Fuel oil .. .. .	4,067	3,859	5,764	8,038			
Asphalt .. .. .	116	116	221	180			
<b>Iraq (b)—</b>							
Motor spirit .. .. .	63,211	37,034	41,389	40,436	40,560	55,174	49,622
Kerosene .. .. .	41,646	47,184	52,441	50,324	58,309	62,433	53,225
Gas oil .. .. .	(a)	(a)	(a)	10,858	6,997	11,435	11,515
Fuel oil and diesel oil .. .. .	104,568	122,490	160,390	169,483	177,092	217,270	221,190
<b>Japan—</b>							
Aviation spirit .. .. .	250,477	229,785	187,361	1,040	—	—	—
Motor spirit .. .. .	162,684	201,102	74,310	31,339	21,498	19,006	14,687
Kerosene .. .. .	70,111	65,868	63,804	31,101	20,139	20,407	23,373
Gas oil .. .. .	68,023	88,034	76,389	13,950	7,259	9,412	8,153
Diesel oil .. .. .	531,395	523,723	283,686	75,108	62,167	34,997	22,561
Fuel oil .. .. .	654,899	710,597	209,570	21,591	9,987	594	25,913
Lubricating oils .. .. .	299,997	271,119	151,329	49,584	42,805	35,541	35,214
Other oils .. .. .	80,785	57,049	15,247	15,331	18,879	18,098	20,674

(a) Information not available.

(b) Years ended March 31 following that stated for the years 1942 to 1944.

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

Producing Country	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Lebanon—							
Motor spirit .. ..	28,063	34,926	38,075	44,076	46,110	48,754	52,031
Kerosene .. ..	15,660	17,978	23,346	23,636	26,833	26,997	27,481
Gas oil .. ..	15,220	18,122	22,142	28,000	29,180	32,879	35,818
Fuel oil .. ..	76,049	86,874	103,403	116,853	118,091	128,785	136,404
Netherlands East Indies—							
Motor spirit .. ..	(a)	(a)	(a)	(a)	(a)	339,000	(a)
Kerosene .. ..	(a)	(a)	(a)	(a)	(a)	205,000	(a)
Fuel oil, solar oil and diesel oil .. ..	(a)	(a)	(a)	(a)	(a)	981,000	(a)
Asphalt .. ..	(a)	(a)	(a)	(a)	(a)	10,700	(a)

(a) Information not available.

**EXPORTS OF PETROLEUM AND ALLIED PRODUCTS\***  
(Domestic Produce)  
(Long tons)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
<b>United Kingdom—</b>							
Aviation spirit (bunkers) (b) .. ..	130	250	102	429	14,225	37,944	(a)
Motor spirit .. ..	240	79	18,366	1,613	6,271	78,340	20,607
Other spirit .. ..	342	261	288	1,148	7,765	1,818	2,028
Kerosene .. ..	32	11	18	58	500	4,039	2,089
Gas oil .. ..	810	—	—	—	8,329	44,600	16,137
Diesel oil .. ..	(c)	(c)	(c)	(c)	18	9	1
Fuel oil .. ..	2,491	361	1,401	1,016	1,417	46,266	22,832
do. (bunkers) (b) .. ..	1,228,109	1,253,013	1,801,766	1,739,963	1,683,192	1,957,462	1,983,254
Lubricating oil .. ..	6,507	3,689	5,925	16,362	135,623	116,770	114,574
Other refined oils .. ..	105	27	41	133	1,288	2,267	3,297
Mineral jelly .. ..	6	11	6	40	474	113	112
Paraffin wax .. ..	83	313	4	933	577	3,536	2,655
<b>Malta—</b>							
Aviation spirit (bunkers) (b) .. ..	(a)	(a)	(a)	(a)	—	—	10,683
Gas oil (bunkers) (b) .. ..	(a)	(a)	(a)	(a)	367	2,272	980
Fuel oil (bunkers) (b) .. ..	(a)	(a)	(a)	(a)	4,751	11,119	11,236
<b>Gold Coast (b)—</b>							
Aviation spirit (bunkers) .. ..	—	—	—	—	—	—	2,557
Motor spirit (bunkers) .. ..	(a)	(a)	1,219	214	19	1,604	—
Fuel oil (bunkers) .. ..	9,290	26,805	26,882	14,796	14,491	12,057	20,084
<b>Kenya and Uganda</b>							
<b>Bunkers (b)—</b>							
Motor spirit .. ..	511	759	502	358	1,121	4,060	6,386
Kerosene .. ..	14	10	10	7	5	6	12
Fuel oil .. ..	203,587	130,821	50,930	29,387	101,350	84,728	128,299
Lubricating oil .. ..	176	152	111	94	98	136	243
<b>Sierra Leone (bunkers)—</b>							
Lubricating oil (b) .. ..	119	91	135	60	13	6	4
<b>Union of South Africa—</b>							
Fuel oil (bunkers) (b) .. ..	(a)	(a)	(a)	224,504	232,740	(a)	(a)
Asphalt and bitumen .. ..	318	563	173	105	68	(a)	(a)
<b>Canada—</b>							
Crude petroleum .. ..	75	—	—	—	—	35	98
Motor spirit .. ..	50,487	53,496	74,811	186,311	33,052	23,300	28,762
Kerosene, etc. .. ..	3,357	3,653	3,768	24,015	10,837	342	1,222
Fuel oil .. ..	212,311	227,863	194,979	135,899	84,490	113,028	264,962
Lubricating oil .. ..	} 12,070	} 8,803	} 2,791	} 3,788	} 17,895	} 12,049	} 3,668
Other oils .. ..							
Mineral wax .. ..							
Petroleum coke .. ..	37	2	51	817	5,676	19,413	14,588
Petroleum coke .. ..	47,393	50,599	24,200	19,875	13,018	24,480	29,041
<b>Newfoundland (e)—</b>							
Fuel oil (bunkers) (d) .. ..	4,685	7,349	155,495	38,166	20,257	27,816	74,289
<b>British Guiana (b)—</b>							
Crude petroleum (bunkers) .. ..	145	44	—	9	(a)	(a)	(a)
Aviation spirit (bunkers) .. ..	103	213	170	48	49	297	(a)
<b>British West Indies—</b>							
<b>Barbados—</b>							
Manjak .. ..	41	18	22	9	—	—	—

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

(a) Information not available.

(b) Foreign produce. See imports.

(c) Included with Fuel oil.

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

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

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

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948	
<b>BRITISH COUNTRIES (Cont.)</b>								
<b>British West Indies (Cont.)—</b>								
<b>Bermuda—</b>								
<b>Bunkers (b) (c)—</b>								
Aviation spirit ..	(a)	(a)	(a)	(a)	(a)	(a)	11,438	
Motor spirit ..								281
Kerosene ..								386
Fuel oil ..								13,408
Diesel oil ..								2,497
Lubricating oil ..							22	
<b>Jamaica—</b>								
<b>Bunkers (b)—</b>								
Aviation spirit ..	—	—	—	2,863	3,015	1,348	(a)	
Motor spirit ..	651	1,199	1,367	—	9	24	(a)	
Gas oil (c) ..	9,050	(a)	43	7,617	24	—	(a)	
Diesel oil (c) ..	2,226	2,815	19,732	12,242	16,030	1,477	4,384	
Fuel oil (c) ..	(a)	13,967	15,729	11,883	19	5,550	26,496	
<b>Trinidad and Tobago—</b>								
Crude petroleum ..	124	235	44	23	12,869	125,911	298,525	
Motor spirit ..	424,709	466,721	627,060	152,997	538,807	613,369	614,410	
do. (bunkers) ..								423,173
Kerosene ..								84,632
do. (bunkers) ..								97,578
Gas oil ..								15,157
do. (bunkers) ..	89,963	28,139	73,624	84,632	387,460	233,849	216,124	
Fuel oil ..	30,678	20,759	73,624	97,578	67	137	178	
do. (bunkers) ..	1,306,486	766,322	1,003,656	15,157	101,241	106,479	220,390	
Fuel oil ..	890,782	920,958	931,000	89,963	28,139	42,450	57,685	
do. (bunkers) ..	71	58	26	179,829	507,693	777,339	1,135,084	
Lubricating oil ..	3,848	3,859	3,967	1,769,335	1,175,161	1,212,682	1,028,550	
Road oil ..				10	46	248	115	
Asphalt—				5,427	9,302	7,479	9,096	
Crude ..	154	44	227	536	—	41	16	
Dried ..	1,643	12,204	16,958	9,990	26,563	32,364	41,988	
Asphalt cement ..	5,529	16,424	14,067	6,551	23,241	24,295	49,369	
Bituminous asphalt ..	8,186	22,214	4,215	11,351	40,451	26,351	60,896	
<b>Aden—</b>								
Fuel oil (bunkers) (b) ..	552,836	484,359	420,337	404,301	694,861	1,112,301	1,575,169	
<b>Bahrain Islands—</b>								
Aviation spirit ..	(a)	(a)	(a)	36,012	46,838	5,407	12,699	
Motor spirit ..	389,248	429,267	445,574	576,148	893,762	1,193,854	1,448,023	
Kerosene ..	223,095	230,219	230,077	288,532	507,404	697,114	674,490	
Diesel oil ..	179,179	192,983	316,985	571,081	860,019	968,496	1,191,181	
Fuel oil ..	300,997	262,610	323,645	833,048	1,798,609	2,756,799	3,231,716	
<b>Brunei—</b>								
Crude petroleum (d) ..	(a)	(a)	(a)	(a)	184,407	1,689,963	2,641,516	
Natural gas (1,000 cubic feet) ..	(a)	(a)	(a)	(a)	(a)	893,344	1,260,126	
<b>Ceylon (bunkers) (b)—</b>								
Gas oil ..	148	—	—	—	—	—	55	
Diesel oil ..	43,412	46,453	57,639	70,414	54,524	52,096	65,114	
Fuel oil ..	143,431	234,061	443,714	557,121	239,560	247,564	314,897	
Lubricating oil ..	137	193	182	218	128	96	158	
<b>Hong Kong re-exports—</b>								
Motor spirit ..	(a)	(a)	(a)	(a)	49,338	74,506	57,333	
Kerosene ..	(a)	(a)	(a)	(a)	79,174	54,143	41,372	

(a) Information not available.

(b) Foreign produce. See imports.

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

(d) Exported to Sarawak for refinery. Some is, however, re-exported from Sarawak and shown as exports from that country. See under Sarawak on page 215.

(e) Including bunkers for military forces.

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

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES (Cont.)</b>							
<b>Hong Kong (re-exports)—</b>							
<i>(Cont.)</i>							
Fuel oil and gas oil ..	(a)	(a)	(a)	(a)	2,401	1,721	} 63,316
Diesel oil ..					24,154	55,020	
Lubricating oil ..					6,022	7,244	
Greases ..					109	114	
Petroleum jelly ..					1,386	319	
Paraffin wax ..	1,055	1,891	3,863				
<b>India—</b>							
Crude petroleum (e) ..	3,151	2,954	(a)	(a)	(a)	(a)	(a)
Aviation spirit (bunkers) ..	398	355	2,676	7,376	11,336	17,703	6,622
Motor spirit (e) ..	2,359	1,962	34	—	290	—	—
Kerosene (e) ..	175	456	(a)	—	—	—	—
Fuel oil (bunkers) (domestic produce) ..	274	—	—	—	—	—	—
do. do. (foreign produce) ..	157,920	181,489	168,296	203,032	198,808	95,518	22,412
Paraffin wax ..	3,018	14,193	16,370	14,128	16,409	15,850	11,973
<b>Malaya (including re-exports)—</b>							
Aviation spirit ..	(a)	(a)	(a)	(a)	(a)	(a)	115,657
do. do. (bunkers) ..					(a)	5,805	6,926
Motor spirit ..					102,815	136,379	182,567
Kerosene ..					90,320	50,088	105,890
Vapourising oil ..					(a)	(a)	13,787
Gas oil ..					(a)	(a)	50,946
Diesel oil ..					(a)	(a)	219,404
Fuel oil ..					101,038	236,902	274,268
do. (bunkers) ..					(a)	278,250	349,055
Lubricating oil ..					1,714	5,249	7,023
Other petroleum products	6	33	23				
Paraffin wax ..	81	23	151				
Asphalt and bitumen ..	424	403	1,485				
<b>Palestine—</b>							
Motor spirit ..	420,235	305,385	258,775	255,246	380,318	(a)	(a)
Kerosene ..	88,638	145,111	170,400	199,500	265,060	(a)	(a)
Fuel oil, gas oil and diesel oil ..	168,818	170,801	351,996	900,062	1,616,769	(a)	(a)
Asphalt ..	—	4,445	13,492	9,229	21,955	(a)	(a)
<b>Sarawak—</b>							
Crude petroleum (b) ..	(a)	(a)	(a)	(a)	(c) 219,418	706,675	1,169,665
Motor spirit ..					(c) 1,591	48,879	122,699
Kerosene ..					(c) 26	25,351	—
Diesel oil ..					(c) —	854,841	1,307,533
do. (bunkers) ..					(c) —	36,527	31,812
Lubricating oil ..	(c) —	1	—				
<b>Australia—</b>							
Crude petroleum ..	—	—	—	16	13	1,948	—
Motor spirit, etc. ..	556	4,145	37,552	3,210	1,435	690	2,233
Kerosene ..	8	113	409	265	512	1,163	208
Lubricating oil ..	103	82	96	184	643	2,214	203
Residual and solar oils ..	52	191	7,503	17	77	471	1,364
Greases ..	357	44	166	77	282	7,037	12,837
Paraffin wax, etc. ..	128	153	75	57	198	82	11
<b>Fiji—</b>							
Aviation spirit (bunkers) (d) ..	(a)	(a)	(a)	(a)	221	2,652	3,551
Fuel oil (bunkers) (d) ..	39,350	26,446	5,542	3,872	6,370	3,905	6,715

(a) Information not available.

(b) Including crude petroleum imported from Brunei.

(c) April 15 to December 31 only.

(d) Foreign produce. See imports.

(e) Includes trade by land as recorded.

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

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948		
<b>BRITISH COUNTRIES (Cont.)</b>									
New Zealand—									
Fuel oil (bunkers) (d) ..	66,367	31,157	35,956	(a)	(a)	(a)	42,867		
Lubricating oil(bunkers)(d)	468	322	(a)	(a)	(a)	(a)	325		
<b>FOREIGN COUNTRIES</b>									
Austria—									
Crude petroleum ..	(a)	(a)	(a)	(a)	(a)	5,015	527		
Kerosene.. ..							993		
Gas oil .. ..							1,980		
Fuel oil .. ..							18,123		
Lubricating oil, etc. ..							496		
Belgium-Luxemburg E.U.—									
Crude petroleum ..	—	—	—	(a)	(a)	(a)	6,328		
Motor spirit .. ..	—	41	61	(a)	(a)	(a)	(a)		
Kerosene.. ..	—	64	—	(a)	(a)	(a)	(a)		
Gas oil .. ..	14	188	22	(a)	(a)	763,411	(a)		
do. (bunkers) (b) ..									
Fuel oil, etc. .. ..									
do. (bunkers) (b) ..									
Lubricating oil .. ..									
do. (bunkers) (b) ..	270	140	19	(a)	(a)	763,411	(a)		
Other heavy oils ..	—	3	—	(a)	(a)	763,411	(a)		
Petroleum jelly ..	415	1	—						
Paraffin wax .. ..	—	—	—						
Ozokerite and ceresin ..	—	—	2						
Asphalt and bitumen ..	190	69	69						
Residual asphalt, etc. ..	—	15	—	(a)	(a)	763,411	(a)		
Czechoslovakia—									
Lubricating oil, etc. ..	(a)	(a)	(a)	(a)	1,252	1,261	(c) 166		
Paraffin wax .. ..							2	52	(c) 62
Asphalt products ..							1,006	404	(c) 414
France—									
Crude petroleum ..	1	—	(a)	—	1	84	3,441		
Motor spirit .. ..	2,054	6	(a)	505	107,054	184,600	198,493		
Kerosene.. ..	9	4	(a)	—	3,852	46,751	48,361		
Kerosene, etc.—									
Bunkers (domestic produce) .. ..	1,702	(a)	(a)	(a)	(a)	(a)	(a)		
Bunkers (foreign produce) .. ..	4,001	(a)	(a)	(a)	(a)	(a)	(a)		
Lubricating oil .. ..	398	49	77	73	4,507	10,799	3,423		
Gas oil .. ..	1,023	408	(a)	603	31,866	61,179	188,284		
Fuel oil .. ..	—	—	787	15,462	180,335	250,140	439,393		
Road oil, etc. .. ..	72	187	(a)	—	8,082	21,578	(a)		
Heavy and residual oils—									
Bunkers (domestic produce) .. ..	12,884	(a)	(a)	(a)	(a)	(a)	(a)		
Bunkers (foreign produce) .. ..	12,154	(a)	(a)	(a)	(a)	(a)	(a)		
Petroleum jelly .. ..	2	—	(a)	—	22	42	29		
Paraffin wax .. ..	4	—	6	18	75	372	14		
Ozokerite, ceresin, etc. ..	76	1	154	2	15	19	20		
Petroleum coke, etc. ..	266	285	423	—	624	1,567	148		
Asphalt and bitumen ..	190	—	(a)	411	788	2,610	2,743		

(a) Information not available.

(b) Bunkers for foreign ships only.

(c) January to October only.

(d) Foreign produce. Excluded from imports.



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

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948	
<b>FOREIGN COUNTRIES (Cont.)</b>								
<b>Germany—</b>								
Crude petroleum ..	94,124	60,167	(d) 2,472	} (a)	(f) —	(f) 39,000	(f) 280,000	
Motor spirit ..	353,665	270,118	(d) 128,581		(f) 260,000	(f) 359,000	(f) 448,000	
Kerosene ..	67,376	47,781	(d) 58,403		} a	} a	} (a)	
Gas oil ..	321,091	278,220	(d) 191,602					
Fuel oil ..	12,310	2,523	(d) 552					
Lubricating oil ..	99,076	125,970	(d) 72,303					
Paraffin wax ..	10,690	7,249	(d) 3,657					
Ozokerite, etc. ..	6,260	6,090	(d) 4,320					
Asphalt ..	8,230	3,613	(d) 1,706					
<b>Hungary—</b>								
Crude petroleum ..	} (a)	} (a)	} (a)	} (a)	34,857	} 236,700	} (a)	
Kerosene ..					40,473			
Gas oil ..					29,889			
Fuel oil ..					29,458			
Lubricating oil ..					65,962			
<b>Italy—</b>								
Motor spirit ..	2,000	(b) 2,000	} (a)	} (a)	} (a)	103	2,900	
Kerosene ..	(a)	(a)				3	4,612	
Lubricating oil ..	6,000	(b) 3,000				6	8	
Gas oil ..	—	—				1,642	3,498	
Fuel oil ..	1,000	—				629	3,526	
Paraffin wax ..	35	(b) 2				1	10	
Asphalt and bitumen ..	867	(b) 197				835	4,838	
Petroleum jelly ..	2	(b) 4				—	—	
<b>Netherlands—</b>								
Crude petroleum ..	—	6	} (a)	} (a)	4	1	—	
Aviation spirit (bunkers)	(a)	(a)			(a)	1,231	23	19,651
Motor spirit ..	—	—			3	—	—	
Kerosene ..	—	—			2	3	1	—
Gas oil ..	2	2			168	3,290	30,437	
do. (bunkers) (c) ..	1,138	236			48,596	98,521	124,406	
Fuel oil ..	—	—			—	10,235	94,471	
do. (bunkers) (c) ..	—	—			(a)	78,443	312,056	320,681
Lubricating oil ..	—	1			95	610	7,890	
Greases ..	—	—			6	34	(a)	
Petroleum jelly ..	—	—			15	122	590	
Paraffin wax ..	—	—			48	66	278	
Ozokerite and ceresin ..	—	—			221	346	2,203	
Asphalt ..	724	9			35,235	59,144	59,660	
Natural asphalt ..	—	—			(a)	—	25	
Petroleum coke ..	—	—	(a)	—	1,149	3,868		
do. (bunkers) ..	—	—	—	—	24,965	37,200		
<b>Norway—</b>								
Motor spirit ..	—	—	—	3	31	94	124	
Kerosene ..	—	—	—	4	5	11	17	
Fuel oil and solar oil ..	11	—	—	96	570	2,668	26,629	
Residual oils, etc. ..	—	1	2	23	34	90	82	
<b>Portugal—</b>								
Motor spirit ..	29	1	15	4	9	15	6	
Kerosene ..	3	2	6	7	12	8	4	
Fuel oil (bunkers) (e) ..	250	496	537	241	342	604	5,965	
Lubricating oil, etc. ..	61	54	83	172	65	191	215	
Other oils ..	6	5	17	19	12	4	4	

(a) Information not available.

(b) January to June only.

(c) Including imported oil.

(d) January to July only.

(e) Bunkers on foreign ships only.

(f) Bizonal area

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

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Roumania—							
Crude petroleum ..	419,000	358,000	286,000	20,703	5,835	(a)	(a)
Motor spirit .. ..	1,450,000	1,463,000	859,000	1,252,641	1,051,462	876,755	(a)
Kerosene .. .. .	317,000	343,000	222,000	344,440	326,466	270,925	(a)
Fuel oil and gas oil (d) ..	957,000	794,000	600,000	1,433,847	785,195	626,667	(a)
Other oils .. .. .	117,000	85,000	88,000	55,231	57,889	55,998	(a)
Paraffin wax .. ..	8,155	15,332	384	1,973	3,231	5,912	(a)
Asphalt .. .. .	65,811	57,595	22,247	12,978	5,112	6,820	(a)
Petroleum coke .. ..	1,240	4,613	3,570	—	10	—	(a)
Spain—							
Motor spirit .. .. .	(a)	(a)	(a)	37,831	5,008	3	65
Kerosene .. .. .				3	5	8	—
Diesel oil .. .. .				42	—	5	—
Lubricating oil .. ..				78	14	98	110
Asphalt .. .. .				296	252	57	41
Sweden—							
Motor spirit .. .. .	—	2	—	13	3,084	119	481
Kerosene .. .. .	—	—	—	1	9	129	—
Fuel oil and gas oil .. ..	49	70	—	1,113	12,250	20,016	—
Lubricating oil .. .. .	—	—	1,352	119	994	338	300
Other oils .. .. .	—	—	1	—	403	1,178	668
Paraffin wax .. .. .	—	—	—	4	66	—	—
Petroleum jelly .. .. .	—	—	—	15	22	25	—
Ozokerite and ceresin .. ..	—	—	—	1	50	19	—
Asphalt .. .. .	1	96	—	275	69	182	76
Pitch .. .. .	46	—	20	44	1,393	2,710	4,107
Switzerland—							
Motor spirit .. .. .	—	1	—	1	83	407	1,025
Fuel oil .. .. .	—	—	—	—	1	—	—
Lubricating oil and grease ..	1	1	1	3	63	221	507
Petroleum jelly .. .. .	—	—	—	—	67	34	12
Asphalt and bitumen .. ..	1	—	—	5	238	702	2,961
Paraffin wax and ceresin ..	—	—	—	—	2	88	72
Algeria—							
Motor spirit .. .. .	3,056	218	250	134	379	603	12
Kerosene .. .. .	—	—	12	10	2	6	26
Gas oil .. .. .	1	58	91	149	46	16	42
Fuel oil .. .. .	5	—	—	—	147	6	133
Fuel oil and gas oil (b) ..	7,146	3,148	—	3,806	45,214	271,240	409,365
Lubricating oil .. .. .	176	90	33	3	9	95	12
Bitumen .. .. .	—	—	—	1	—	—	267
Canary Islands (c)—							
Petroleum products .. ..	(a)	(a)	(a)	26,625	127,962	272,628	(a)
do. (bunkers) .. .. .	(a)	(a)	(a)	8,767	283,107	658,798	(a)
Cape Verde Islands—							
Fuel oil (bunkers) (c) ..	11,112	18,258	8,563	(a)	(a)	(a)	(a)
Ceuta (c)—							
Petroleum products .. ..	(a)	(a)	(a)	2	22	52	(a)
do. (bunkers) .. .. .	(a)	(a)	(a)	100	11,054	53,762	(a)
Egypt—							
Motor spirit .. .. .	213	14	100	35	—	12	59
Kerosene .. .. .	37	—	3	3	2	1	1
Fuel oil, etc. .. .. .	11,182	—	—	—	14	—	—
do. (bunkers for foreign ships) .. .. .	193,941	132,365	194,868	148,742	261,258	115,908	283,176
Lubricating oil .. .. .	28	5	10	—	—	—	—
Asphalt, etc. .. .. .	41,414	11,615	56,748	54,422	161,335	82,272	43,529

(a) Information not available.

(b) Bunkers of foreign produce.

(c) Foreign produce. See imports.

(d) Including bunkers.

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

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
Melilla—							
Petroleum products ..	(a)	(a)	(a)	1,285	1,031	1,067	(a)
Morocco (French)—							
Crude, refined and residual .. .. .	47	4	174	185	93	731	(a)
Cuba (including re-exports)—							
Motor spirit .. .. .	533	—	—	—	(a)	(a)	(a)
Natural asphalt .. .. .	1,596	950	98	173	(a)	(a)	(a)
Mexico (b)—							
Crude petroleum .. .. .	449,623	222,216	82,565	354,627	430,001	449,305	1,496,000
Motor spirit .. .. .	58,992	2,330	696	1,215	1,077	14,997	226,000
Kerosene .. .. .	63,007	159,225	206,564	146,291	102,872	65,040	204,000
Fuel oil .. .. .	264,491	473,513	325,434	527,044	597,935	402,122	951,000
Gas oil .. .. .	42,750	37,322	62,429	70,538	115,924	43,109	159,000
Lubricating oil .. .. .	76	226	67	59	157	175	(a)
Asphalt (petroleum) .. .. .	2,894	—	5,626	—	29,679	(a)	(a)
Natural asphalt .. .. .	(a)	—	6,806	2,085	429	(a)	(a)
Netherlands West Indies—							
Crude petroleum .. .. .	—	—	20,104	45,841	691,429	1,839,714	(a)
Aviation spirit .. .. .	380,000	538,000	1,034,000	793,111	460,889	579,333	(a)
Motor spirit .. .. .	2,092,000	2,265,000	2,244,000	3,116,178	4,279,867	4,386,242	(a)
Kerosene .. .. .	562,000	885,000	710,095	700,502	940,418	1,136,545	(a)
Gas oil and diesel oil .. .. .	1,465,000	1,606,000	2,094,943	2,501,715	3,597,076	3,494,564	(a)
do. (bunkers) .. .. .	112,000	145,000	69,000	359,246	721,749	886,913	(a)
Fuel oil .. .. .	7,866,000	12,071,000	14,640,416	21,015,726	16,524,667	18,840,354	(a)
do. (bunkers) .. .. .	296,000	847,000	1,348,000	1,593,812	3,437,729	2,835,000	(a)
Lubricating oil .. .. .	118,000	98,000	23,407	62,132	139,440	307,300	(a)
Asphalt .. .. .	33,619	1,462	25,095	108,081	108,086	208,859	(a)
United States—							
Crude petroleum .. .. .	4,871,239	5,933,255	4,767,427	5,050,432	6,081,946	6,551,731	5,676,652
Aviation spirit .. .. .	2,605,393	5,533,507	6,946,817	3,606,046	178,325	396,702	566,001
Motor spirit .. .. .	1,031,326	1,585,176	4,138,164	5,700,249	4,181,634	3,765,271	2,496,977
Other finished light products .. .. .	61,764	54,900	73,903	184,026	50,850	91,620	163,956
Natural gasoline .. .. .	134,000	69,000	77,000	100,853	351,870	554,447	466,597
Kerosene .. .. .	318,103	564,889	587,344	753,893	1,041,600	851,139	372,059
Gas oil and distillate fuel oil .. .. .	2,832,193	3,176,180	5,735,974	4,436,321	3,808,713	3,644,364	2,596,371
Residual fuel oil .. .. .	1,267,348	1,914,594	1,327,754	1,043,388	847,812	1,178,484	1,362,528
Fuel oil (bunkers) .. .. .	3,558,442	6,705,276	10,054,118	11,523,088	(a)	(a)	(a)
Lubricating oil .. .. .	1,105,964	1,188,150	888,858	891,090	1,514,236	1,947,747	1,769,820
Transformer oil .. .. .	10,378	7,762	10,042	14,181	25,052	37,547	30,725
Greases .. .. .	26,039	33,472	30,346	29,135	43,754	79,800	52,360
Paraffin wax .. .. .	65,824	77,142	72,431	70,671	89,609	138,216	124,242
Petroleum jelly .. .. .	24,917	26,533	21,474	20,814	41,815	41,618	28,428
Asphalt and bitumen, natural .. .. .	7,983	31,157	29,957	42,048	23,729	21,341	12,216
Other asphalt, etc. .. .. .	75,718	76,849	106,439	189,556	347,106	496,383	241,034
Petroleum coke .. .. .	290,280	280,134	183,692	186,764	344,630	369,565	447,549
Liquefied petroleum gases .. .. .	16,844	20,213	29,244	52,351	98,620	106,940	91,447
Natural gas (million cu. ft.) .. .. .	6,206	8,194	10,248	13,247	13,337	8,035	5,645
Argentina—							
Motor spirit .. .. .	5,147	9,225	6,212	3,719	1,125		
Kerosene .. .. .	4,811	820	738	755	362		
Gas oil .. .. .	6,388	280	178	51	123		
Fuel oil .. .. .	44,340	28,645	9,237	7,703	1,780		
Diesel oil .. .. .	33,815	27,982	1,624	2,347	497	(a)	(a)
Lubricating oil .. .. .	1,738	—	661	602	689		
Grease .. .. .	61	34	20	5	3		
Asphalt .. .. .	1,020	219	100	89	524		
Bitumen (Rafaelite) .. .. .	2,336	1,167	1,827	1,151	3,298		
Bolivia—							
Crude petroleum .. .. .	12,025	13,578	19,408	19,803	11,491	17,791	13,065
Fuel oil .. .. .	—	—	4,500	(a)	3,208	2,500	(a)

(a) Information not available.

(b) Including bunkers.

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

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
<b>Chile—</b>							
Crude petroleum (c) ..	1,863	—	—	—	—	} (a)	(a)
Motor spirit (c) ..	1	—	—	—	—		
Kerosene (c) ..	1	1	1	—	—		
Diesel oil (c) ..	14,578	—	—	—	—		
Lubricating oil ..	10	2	2	—	—		
Tar and pitch ..	136	117	180	351	273		
Natural asphalt ..	—	—	1	—	—		
<b>Colombia—</b>							
Crude petroleum ..	1,031,164	1,471,464	2,555,115	2,683,785	2,446,810	2,800,000	2,690,000
Motor spirit ..	—	354	(a)	5	26	} (a)	(a)
Kerosene ..	—	(a)	(a)	2	2		
Fuel oil, etc. ..	—	41,840	42,113	31,803	67		
<b>Ecuador—</b>							
Crude petroleum ..	213,000	203,000	248,000	262,000	175,714	133,890	188,900
Motor spirit ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
<b>Peru—</b>							
Crude petroleum ..	27,902	37,491	28,133	26,691	170,277	281,143	246,033
Motor spirit (b) ..	554,018	497,215	442,275	406,838	363,341	305,238	296,053
Kerosene (b) ..	41,878	68,455	89,780	87,584	63,008	30,545	32,325
Gas oil ..	18	6	(a)	(a)	(a)	(a)	—
Fuel oil and Diesel oil ..	720,183	805,093	604,284	574,884	373,207	} 306,159	{ 331,615
do. (bunkers) ..	84,354	106,744	123,296	105,691	65,989		
Lubricating oil and grease ..	1,001	2,597	1,619	1,610	2,057		
							2,516
<b>Venezuela—</b>							
Crude petroleum ..	17,796,204	22,491,830	31,948,255	40,995,580	49,357,769	55,500,266	62,528,571
Motor spirit ..	128,265	206,527	51,289	68,596	231,314	161,660	57,148
Kerosene ..	15	20	(a)	12	39	25	(a)
Gas oil ..	98,751	136,784	24,310	87,838	273,838	299,090	1,480
Fuel oil ..	2,139,430	1,986,217	3,136,136	2,982,417	2,855,964	2,989,875	3,782,187
Diesel oil ..	—	—	2,038	391,184	538,332	455,868	666,077
Asphalt ..	—	—	(a)	(a)	(a)	(a)	(a)
<b>Iran (d)—</b>							
Crude petroleum ..	257,778	—	(a)	203,571	798,209	4,233,772	(a)
Motor spirit ..	1,613,714	1,994,222	2,148,483	2,278,037	4,493,779	5,488,753	(a)
Kerosene ..	802,644	949,564	1,244,600	1,598,673	1,692,211	2,910,422	(a)
Fuel oil ..	5,966,689	5,227,265	1,957,229	10,400,833	10,588,629	4,847,809	(a)
Lubricating oil, etc. ..	96,730	131,760	(a)	(a)	(a)	(a)	(a)
<b>Iraq—</b>							
Crude petroleum ..	2,149,740	3,400,000	4,100,000	4,290,270	4,600,000	4,600,000	(a)
Motor spirit ..	406	615	603	820	(a)	(a)	(a)
Kerosene ..	58	209	197	283	(a)	(a)	(a)
Bitumen ..	—	—	—	5	(a)	(a)	(a)
<b>Netherlands East Indies—</b>							
Crude petroleum ..	} (a)	(a)	(a)	(a)	{ (a)	(a)	9,714
Motor spirit ..							
Kerosene ..							
Fuel and motor oils ..							
do. (bunkers) ..							
Batching oil ..							
Lubricating oil ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Greases ..							
Paraffin wax ..							
Asphalt ..							
Turpene ..							
<b>Saudi Arabia—</b>							
Crude petroleum ..	632,000	688,000	1,026,000	2,412,000	4,343,000	7,192,000	(a)
<b>Syria and Lebanon—</b>							
Fuel oil ..	18	9	9,769	29,216	14	(a)	(a)
Asphalt and bitumen ..	—	63	14	272	597	(a)	(a)

(a) Information not available.

(b) Including bunkers.

(c) Including bunkers on foreign ships.

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

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom—							
Crude petroleum ..	591,317	527,183	683,733	948,942	2,240,000	2,473,281	4,641,217
Aviation spirit .. ..	1,069,497	2,202,530	4,797,853	2,074,557	106,727	52,425	} 3,902,320
Motor spirit .. ..	3,064,503	3,356,713	4,812,997	4,887,750	3,753,370	3,798,140	
Other spirit .. ..	104,926	64,940	110,684	158,326	102,787	84,521	104,208
Kerosene .. ..	851,106	1,198,226	1,329,296	1,239,212	1,445,255	1,175,427	1,475,186
Fuel oil and diesel oil (d)	3,037,515	5,501,991	5,576,326	4,168,636	4,365,983	3,175,428	5,431,173
Gas oil .. ..	1,002,418	1,623,323	2,342,125	1,817,540	1,831,726	1,595,384	1,811,190
Lubricating oil .. ..	555,631	431,873	570,102	309,373	339,332	333,012	347,348
Other petroleum oils ..	55	—	102	(c) 31	(c) 8	31	(c) 10,323
Mineral jelly .. ..	14,363	11,238	7,235	7,624	5,788	9,684	9,723
Paraffin wax .. ..	59,098	37,682	28,550	33,371	33,066	38,256	36,014
Ozokerite .. ..	—	—	29	—	24	178	329
Asphalt and bitumen ..	13,088	12,320	16,867	9,148	26,182	30,504	44,630
Malta—							
Aviation spirit (d) ..	} (a)	(a)	(a)	(a) —	—	—	19,913
Motor spirit (d) ..				(a) 2,938	19,154	13,049	8,202
Petroleum (d) .. ..				(a) 20,175	21,685	5,266	26,057
Fuel oil (d) .. ..				(a) 17,389	29,042	34,955	
Gas oil (d) .. ..				(a) 8,832	8,440	8,997	
Lubricating oil (d) ..	(a) —	1,018	674				
Anglo-Egyptian Sudan—							
Motor spirit .. ..	21,745	11,343	12,302	14,880	18,548	25,522	29,715
Kerosene .. ..	4,920	4,082	5,826	6,368	7,721	9,690	8,913
Fuel oil and gas oil ..	19,673	32,644	36,155	46,672	64,587	73,775	75,753
Lubricating oil, etc. ..	1,884	2,115	1,720	2,336	2,382	2,998	3,906
Asphalt, etc. .. ..	663	953	1,685	2,742	67	770	1,456
Gambia—							
Aviation spirit .. ..	(a)	(a)	(a)	2,676	677	1,672	(a)
Motor spirit .. ..	3,568	914	279	500	683	1,114	(a)
Kerosene .. ..	161	186	215	208	309	245	(a)
Fuel oil .. ..	549	565	281	342	466	1,040	(a)
Lubricating oil .. ..	212	125	78	40	95	104	(a)
Gold Coast—							
Aviation spirit (d) ..	—	—	—	—	—	—	1,770
Motor spirit (d) .. ..	34,508	37,438	44,536	34,053	23,365	29,778	45,410
Kerosene .. ..	3,575	6,139	6,788	7,853	5,667	13,946	10,954
Fuel oil (d) .. ..	} 72,941	60,652	55,444	43,305	56,534	58,766	} 23,242
Gas oil .. ..							
Diesel oil .. ..							
Lubricating oil .. ..	(a)	(a)	(a)	(a)	(a)	(a)	1,147
Lubricating oil .. ..	3,040	2,924	1,256	2,323	2,473	5,027	4,116
Asphalt and bitumen ..	24	40	1	48	29	382	1,121
Kenya and Uganda—							
Motor spirit (d) .. ..	85,190	70,465	70,102	73,784	84,821	81,691	82,713
Kerosene (d) .. ..	14,422	17,699	17,110	16,986	23,167	28,158	13,149
Gas oil and fuel oil (b) ..	230,647	158,671	81,462	55,983	114,388	118,704	220,278
Lubricating oil (d) ..	5,619	4,367	6,355	3,210	4,835	6,344	7,688
Greases .. ..	333	331	570	230	516	461	751
Mauritius—							
Motor spirit .. ..	2,497	1,163	3,461	1,875	6,106	6,138	7,770
Kerosene .. ..	2,420	2,477	4,554	1,926	3,718	3,066	3,417
Lubricating oils, etc. ..	481	714	1,427	577	514	857	1,101
Fuel oil .. ..	1,126	346	(c) 99	(c) 76	11	81	1,785
Refined motor grease ..	59	33	12	31	84	60	126
Asphalt .. ..	67	22	12	1,765	448	1,603	2,308

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

(a) Information not available.

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

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

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES (Cont.)</b>							
<b>Nigeria—</b>							
Aviation spirit .. .. .	57,507	28,349	32,300	36,160	29,315	44,815	10,210
Motor spirit .. .. .							
Kerosene .. .. .	1,711	8,730	7,801	12,548	18,030	10,007	13,965
Gas oil .. .. .	5,744	3,393	8,618	3,749	10,782	13,562	10,762
Diesel oil .. .. .							
Fuel oil .. .. .							4,228
Lubricating oil .. .. .	2,870	1,378	2,507	1,015	2,037	4,763	3,722
Asphalt and bitumen .. .. .	1,906	2,767	26	2,610	1,130	760	3,892
<b>Northern Rhodesia—</b>							
Motor spirit .. .. .	5,372	5,185	5,769	6,517	8,641	11,892	14,773
Kerosene .. .. .	667	732	684	784	1,105	1,104	3,245
Gas oil .. .. .	268	248	366	547	831	965	
Lubricating oil .. .. .	1,054	912	1,298	696	1,028	1,340	1,976
Asphalt and bitumen .. .. .	539	1	2	279	296	558	(a)
<b>Nyasaland—</b>							
Motor spirit .. .. .	(a)	1,166	1,835	2,337	3,016	3,838	4,296
Kerosene .. .. .	(a)	338	460	597	818	770	1,114
Fuel oil .. .. .	982	910	548	859	1,173	1,352	2,202
Lubricating oil .. .. .	(a)	226	312	133	157	264	303
<b>Seychelles—</b>							
Motor spirit .. .. .	109	103	78	87	156	202	182
Kerosene .. .. .	142	118	147	150	172	166	563
Fuel oil .. .. .	214	42	139	142	152	222	250
Lubricating oil .. .. .	11	94	17	5	17	17	22
<b>Sierra Leone—</b>							
Aviation spirit .. .. .	(a)	(a)	(a)	(a)	(a)	(a)	154
Motor spirit .. .. .	2,458	2,240	2,174	2,594	3,426	4,429	4,159
Kerosene .. .. .	1,073	1,206	1,895	1,987	2,253	2,807	2,844
Gas oil .. .. .	3,439	2,770	3,730	3,860	5,698	5,459	2,584
Fuel oil and diesel oil .. .. .							
Lubricating oil (b) .. .. .	423	768	788	371	245	499	894
Asphalt and bitumen .. .. .	135	369	647	432	771	307	129
<b>Somaliland Protectorate—</b>							
Motor spirit .. .. .	794	855	1,157	1,556	1,509	3,638	3,591
Kerosene .. .. .	173	198	232	294	367	433	454
Gas oil .. .. .	232	177	173	1,010	1,006	1,027	772
Lubricating oil .. .. .	44	33	91	158	160	109	197
<b>Southern Rhodesia—</b>							
Aviation spirit .. .. .	(a)	(a)	(a)	(a)	2,814	3,787	5,996
Motor spirit .. .. .	20,309	15,699	18,471	22,909	34,059	46,246	53,414
Kerosene .. .. .	2,514	2,329	2,535	2,709	3,210	3,960	4,261
Gas oil .. .. .	1,970	1,946	2,114	2,643	3,797	5,139	6,822
Fuel oil .. .. .	7,521	5,946	6,155	6,216	7,770	9,716	10,820
Lubricating oil .. .. .	1,838	2,323	3,388	1,624	2,730	4,200	5,049
Other oils (total imports)	75	148	449	223	191	189	240
Paraffin wax .. .. .	321	661	464	633	463	398	390
Asphalt and bitumen .. .. .	2,293	29	1,507	2,886	4,752	3,077	4,799
<b>South West Africa—</b>							
Motor spirit .. .. .	7,496	5,305	4,938	7,411	12,716	(a)	(a)
Kerosene .. .. .	1,854	1,887	2,879	3,487	3,114	(a)	(a)
Lubricating oil .. .. .	270	384	653	713	1,535	(a)	(a)
Other oils .. .. .	6,460	5,269	7,034	8,021	4,292	(a)	(a)
Asphalt and bitumen .. .. .	1	9	—	10	48	(a)	(a)
<b>Tanganyika Territory—</b>							
Aviation spirit .. .. .	10,024	11,925	14,379	17,066	18,056	26,900	1,845
Motor spirit .. .. .							
Kerosene .. .. .	5,769	6,428	7,461	9,006	9,237	9,729	11,329
Gas oil .. .. .	4,024	3,476	4,397	5,793	5,361	9,745	
Diesel oil .. .. .	4,784	4,080	3,858	2,659	3,167	2,431	19,417
Fuel oil .. .. .	1,546	745	427	1,924	1,513	664	
Lubricating oil .. .. .	1,346	1,548	1,896	1,532	2,148	4,474	4,650
Greases .. .. .	64	83	129	107	132	456	604

(a) Information not available.

(b) Including bunkers. See exports.

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES (Cont.)</b>							
<b>Union of South Africa—</b>							
Motor spirit .. ..	532,954	459,765	496,249	427,726	680,561	(a)	(a)
Other spirit .. ..	2,483	4,188	2,698	5,152	6,189		
Turpentine substitute ..	5,079	1,119	6,861	7,889	10,365		
Kerosene .. ..	67,273	80,814	94,392	79,228	93,329		
Gas oil .. ..	59,673	60,404	65,484	80,746	129,931		
Fuel oil (d) .. ..	1,559,087	922,481	232,134	311,197	417,419		
Lubricating oil .. ..	32,815	34,823	53,766	34,426	51,266		
Transformer oil .. ..	521	1,646	976	840	978		
Road oil .. ..	4,122	640	220	2,366	4,364		
Other oils .. ..	537	1,079	1,564	1,797	2,008		
Paraffin wax .. ..	5,094	15,673	17,504	6,689	6,515		
Asphalt and bitumen ..	5,804	7,912	3,645	15,574	13,532		
Petroleum jelly .. ..	528	1,649	1,711	992	1,273		
<b>Zanzibar—</b>							
Motor spirit .. ..	754	911	899	1,196	1,081	1,482	(a)
Kerosene, etc. .. ..	3,098	1,321	1,082	1,363	2,639	1,449	(a)
Fuel oil .. ..	865	1,519	430	1,472	1,373	1,424	(a)
Lubricating oil .. ..	62	127	126	72	111	132	(a)
<b>Canada—</b>							
Crude petroleum .. ..	6,303,362	7,107,965	8,149,692	8,115,176	9,058,212	9,778,106	10,794,172
Tops for refiners .. ..	(a)	(a)	—	—	—	80,000	264,026
Motor spirit .. ..	380,314	319,638	299,674	257,543	571,656	738,931	1,057,071
Kerosene, etc. .. ..	34,860	41,051	34,054	48,711	137,208	536,535	275,257
Lubricating oils .. ..	60,552	53,929	54,772	42,064	43,569	54,391	64,563
Fuel oil .. ..	168,668	223,210	263,846	222,296	456,435	1,557,050	1,395,803
do. (bunkers) .. ..	86,320	115,903	96,731	147,482	53,843	46,545	52,101
Other petroleum oils ..	2,420	1,812	7,189	15,934	3,175	3,577	4,942
Petroleum jelly, etc. ..	(£99,764)	(£111,926)	(£103,464)	(£110,479)	(£155,658)	(£154,933)	(£137,896)
Grease .. ..	4,641	4,594	4,695	4,688	4,432	4,958	4,534
Paraffin wax, etc. ..	7,809	9,260	7,903	8,355	9,535	17,430	19,316
Asphaltum oil, etc. ..	2	—	—	23	—	—	—
Asphalt .. ..	13,138	6,681	5,405	5,733	7,393	9,733	9,443
Petroleum coke .. ..	279,246	298,955	198,187	171,537	197,840	231,146	274,321
Other products .. ..	5,064	4,736	5,200	5,931	69,492	46,503	36,843
<b>Newfoundland (b)—</b>							
Motor spirit (e) .. ..	(c) 14,831	14,821	89,695	73,382	66,353	78,537	92,586
Kerosene .. ..	(c) 3,919	3,960	3,588	5,291	6,595	8,123	7,472
Lubricating oil .. ..	(c) 3,558	4,352	2,827	2,926	3,503	4,000	2,562
Fuel oil, etc. (d) ..	(c) 34,765	33,624	186,033	67,069	68,281	74,328	153,703
Greases .. ..	(a)	(a)	78	111	119	176	112
Paraffin wax .. ..	(c) 1	31	26	6	9	8	2
Asphalt, etc. .. ..	(c) (£1,476)	(£3,778)	4,550	3,382	4,419	1,036	3,365
<b>British Guiana—</b>							
Crude petroleum .. ..	23,892	34,026	33,124	16,648	22,895	30,142	53,486
Aviation spirit (f) ..	312	317	194	129	144	473	332
Motor spirit .. ..	3,444	2,670	3,130	3,164	4,342	5,189	6,586
Kerosene .. ..	1,165	1,776	2,085	2,139	2,264	3,042	3,805
Fuel oil, etc. .. ..	8,393	11,196	13,718	6,745	14,425	9,185	18,166
Lubricating oil .. ..	(a)	(a)	(a)	903	1,008	1,451	1,847
Tar and pitch .. ..	252	292	181	210	327	278	288
Paraffin wax .. ..	(a)	(a)	(a)	17	5	20	21
Asphalt .. ..	495	447	—	113	110	249	348
<b>British West Indies—</b>							
<b>Bahamas—</b>							
Crude petroleum .. ..	2,396	1,661	1,796	5,600	5,567	6,539	(a)
Motor spirit .. ..	2,311	2,357	1,682	3,731	2,895	9,266	(a)
Kerosene .. ..	1,404	1,393	1,422	1,429	1,618	2,135	(a)
Lubricating oil .. ..	256	100	76	176	204	272	(a)

(a) Information not available.

(c) Nine months ended March 31, 1943.

(e) Including Aviation spirit.

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

(d) Imported chiefly for bunkering purposes.

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

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES (Cont.)</b>							
<b>British West Indies (Cont.)—</b>							
<b>Barbados—</b>							
Crude petroleum ..	2,907	762	3,274	1,628	5,776	6,005	6,140
Motor spirit (b) ..	2,332	2,852	2,375	3,161	4,151	5,382	5,389
Kerosene (b) ..	910	933	1,750	1,720	2,592	2,280	3,130
Road oil ..	81	201	(a)	64	117	129	138
Fuel oil, etc. (b) ..	4,637	5,714	9,548	5,678	10,006	6,839	6,691
<b>Bermuda—</b>							
Aviation spirit ..	(a)	700	1,579	2,789	2,823	(a)	} (b) 24,029
Motor spirit ..	3,104	680	3,202	2,163	3,617	1,927	
Kerosene ..	1,492	1,604	3,074	3,495	1,871	2,026	(b) 2,740
Diesel oil ..	} 50,160	24,531	13,621	14,082	} 2,445	9,186	(b) 11,674
Fuel oil ..							(b) 20,530
Lubricating oil ..	(£9,616)	287	453	228	233	435	(b) 767
Asphalt ..	(o)	(a)	(a)	(a)	(a)	(a)	1,570
<b>Dominica—</b>							
Motor spirit ..	150	142	143	234	259	273	305
Kerosene ..	154	172	174	190	199	197	242
Fuel oil and gas oil ..	117	73	117	114	168	184	131
Lubricating oil ..	10	9	10	13	15	17	18
Road oil ..	294	286	195	167	(a)	130	401
<b>Grenada—</b>							
Motor spirit ..	414	387	425	556	728	1,041	977
Kerosene ..	377	400	425	457	512	499	661
Fuel oil ..	213	221	186	253	242	266	313
Lubricating oil ..	19	9	19	89	37	47	41
Road oil ..	198	206	106	414	102	1,026	646
<b>Jamaica—</b>							
Aviation spirit (b) ..	593	1,342	2,001	2,142	2,522	7,047	10,044
Motor spirit (b) ..	12,724	9,408	17,252	15,722	23,144	26,565	28,528
Kerosene ..	3,789	4,109	6,755	6,403	8,472	8,317	8,371
Gas oil (e) ..	9,050	(c)	10,898	7,607	10,073	7,376	2,893
Diesel oil (e) ..	2,226	2,815	19,732	12,242	16,020	7,376	12,602
Fuel oil (e) ..	54,469	13,967	15,729	11,883	41,060	69,430	106,680
Lubricating oil ..	1,304	1,143	574	872	1,096	1,792	2,163
Asphalt ..	2,105	5,546	1,323	2,448	6,446	1,948	5,855
<b>Leeward Islands (g)—</b>							
Motor spirit ..	88	619	631	1,479	1,130	1,362	143
Kerosene ..	79	296	323	616	209	409	61
Gas oil ..	34	62	(a)	235	(a)	63	69
Diesel oil ..	19	57	19	330	(a)	141	99
Fuel oil ..	(a)	255	97	659	96	219	(a)
Road oil ..	(a)	27	484	556	85	79	(a)
Lubricating oil ..	(a)	133	24	150	101	129	14
<b>St. Lucia—</b>							
Motor spirit ..	236	240	274	494	449	521	625
Kerosene ..	336	211	200	236	294	251	295
Fuel oil ..	105	247	329	—	405	370	372
Lubricating oil ..	30	26	19	36	52	35	72
Road oil ..	147	125	371	—	337	484	412
<b>St. Vincent—</b>							
Motor spirit ..	} (a)	(a)	(a)	(f) 203	(f) 318	} (a)	(a)
Kerosene ..				(f) 227	(f) 198		
Fuel oil, etc. ..				(f) 282	(f) 267		
Lubricating oil ..				(a)	(a)		
Asphalt, tar and pitch ..				(a)	(a)		

(a) Information not available.

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

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

(f) January to September only.

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

(e) Imported chiefly for bunkering purposes.

(g) Except for the year 1945 the figures are incomplete and only include imports into those dependencies for which information is available.



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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES (Cont.)</b>							
<b>British West Indies—(Cont.)</b>							
<b>Trinidad and Tobago—</b>							
Crude petroleum ..	11,857	—	148,452	303,909	411,930	842,288	1,265,332
Motor spirit ..	7,560	89,048	—	108,341	5	8	7
Kerosene ..	—	20,453	—	27,746	1,263	—	—
Gas oil ..	10,561	11,038	—	1,867	—	—	—
Fuel oil ..	161,300	7,035	—	—	—	—	—
Lubricating oil ..	4,565	4,754	2,417	2,404	2,238	2,601	3,020
Greases ..	486	302	313	226	111	180	171
Petroleum jelly ..	78	24	45	84	14	60	51
Paraffin wax ..	22	17	57	55	39	78	27
<b>British Honduras—</b>							
Aviation spirit ..	(a)	(a)	(a)	(a)	(a)	(a)	207
Motor spirit ..	1,041	2,015	951	2,199	2,045	2,776	2,412
Kerosene ..	726	1,320	396	980	923	1,163	1,188
Diesel oil ..	2,355	3,670	360	2,065	2,015	1,974	1,607
Lubricating oil ..	307	133	323	268	307	434	252
Asphalt ..	584	1,089	734	647	30	397	825
<b>Falkland Islands—</b>							
Motor spirit ..	112	108	142	75	108	220	161
Kerosene ..	42	52	34	65	123	106	61
Gas and diesel oils ..	67	90	116	158	406	655	50
Fuel oil ..	12,335	17,791	34,153	44,343	52,900	56,117	70,619
<b>Aden—</b>							
Motor spirit ..	7,890	1,084	1,342	2,986	2,062	5,160	5,903
Kerosene ..	1,390	2,696	1,846	2,537	3,381	3,919	3,932
Fuel oil (b) ..	587,904	445,169	519,542	361,993	788,789	1,061,564	1,461,577
Lubricating oil ..	543	372	4,218	959	1,183	966	743
Other petroleum oils ..	—	—	5,702	—	—	—	12,519
Petroleum jelly ..	14	1	—	2	7	3	—
Paraffin wax ..	5	—	—	—	4	3	—
Asphalt and bitumen ..	—	—	—	—	224	472	1,050
<b>Brunei—</b>							
Motor spirit ..	(a)	(a)	(a)	(a)	(a)	974	1,690
Fuel oil ..							1,523
Lubricating oil ..							480
<b>Ceylon—</b>							
Motor spirit ..	50,344	49,495	58,760	30,703	37,489	53,186	96,109
Kerosene ..	34,740	27,510	28,341	29,604	34,431	37,791	34,974
Gas oil ..	4,776	4,908	4,957	8,109	10,301	13,150	12,529
Diesel oil (b) ..	74,138	89,830	107,588	121,960	97,459	94,718	108,426
Fuel oil (b) ..	115,783	270,252	438,116	596,237	287,586	270,259	292,133
Lubricating oil ..	2,622	5,887	2,526	3,224	4,106	4,397	6,084
Other oils and greases ..	106	249	59	86	177	147	171
Asphalt ..	7,988	8,787	12,162	9,592	18,416	12,025	7,911
<b>Cyprus—</b>							
Crude petroleum, etc. ..	4,092	5,952	7,716	12,692	23,273	39,305	22,181
Motor spirit, etc. ..	4,511	4,985	7,791	7,606	10,344	13,353	15,790
Kerosene, etc. ..	2,413	3,447	6,198	4,755	9,876	13,448	13,738
Lubricating oil ..	376	456	888	740	1,273	1,760	1,520
Paraffin wax ..	—	5	47	40	75	117	109
Asphalt and bitumen ..	41	—	—	2,273	2,476	2,234	3,149
<b>Hong Kong (total imports)—</b>							
Motor spirit ..	(a)	(a)	(a)	(a)	48,095	74,676	74,213
Kerosene ..							56,630
Fuel oil and gas oil (b) ..							135,166
Diesel oil ..							77,900
Lubricating oil ..							18,135
Greases ..							682
Petroleum jelly ..							1,124
Paraffin wax ..	4,749						

(a) Information not available.

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

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES (Cont.)</b>							
<b>India (total imports)—</b>							
Motor spirit .. .. .	289,601	540,945	1,529,335	1,942,642	523,276	358,200	360,293
Other spirit .. .. .	30,382	57,552	184,521	147,663	21,030	15,024	9,095
Kerosene .. .. .	346,532	291,638	370,757	442,300	539,284	740,782	367,297
Diesel oil .. .. .	318,175	301,071	294,854	507,561	412,484	415,315	264,259
Fuel oil (f) .. .. .	631,723	644,455	734,842	1,042,120	1,013,533	892,088	651,192
White oil .. .. .	159	76	27	29	1,019	19,945	29,885
Lubricating oil .. .. .	109,263	94,227	87,959	133,913	140,292	204,422	182,335
Turpentine substitute .. .. .	2,241	550	2,774	4,569	3,991	1,986	8
Other oils .. .. .	1,902	2,600	3,391	5,333	6,366	8,045	6,393
Greases .. .. .	3,651	2,189	2,467	1,845	2,518	7,111	4,522
Paraffin wax .. .. .	351	70	643	10	153	12	17,978
Asphalt .. .. .	62,035	84,091	151,310	264,872	24,713	49,272	46,293
<b>Malaya (total imports)—</b>							
Aviation spirit .. .. .					(a)	(a)	99,425
Motor spirit .. .. .					173,875	232,146	236,027
Kerosene .. .. .					103,716	146,481	93,146
Vapourising oil .. .. .					(a)	(a)	8,645
Gas oil .. .. .					(a)	(a)	139,070
Diesel oil .. .. .	(a)	(a)	(a)	(a)	(a)	(a)	510,693
Fuel oil .. .. .					573,502	665,625	565,131
Lubricating oil .. .. .					11,993	28,603	16,674
Paraffin wax .. .. .					239	1,330	1,341
Asphalt and bitumen .. .. .					4,540	24,632	14,031
Other petroleum products					38	223	119
<b>Palestine—</b>							
Crude petroleum .. .. .	2,020,611	2,804,358	3,310,681	3,957,490	4,016,056	(a)	(a)
Motor spirit .. .. .	397,510	287	195	69	123	(a)	(a)
Lubricating oil and grease	4,753	3,541	6,741	4,376	6,825	(a)	(a)
Petroleum jelly .. .. .	49	51	78	77	23	(a)	(a)
Paraffin wax .. .. .	142	220	189	255	189	(a)	(a)
Asphalt .. .. .	106	164	424	516	749	(a)	(a)
<b>Sarawak—</b>							
Crude petroleum .. .. .					(d)232,068	1,689,965	2,641,516
Motor spirit .. .. .					(d) 618	1,309	1,381
Kerosene .. .. .					(d) 1,241	3,144	3,774
Gas oil .. .. .	(a)	(a)	(a)	(a)	(a)	(a)	847
Fuel oil .. .. .					(d) 2,177	3,909	3,505
Lubricating oil .. .. .					(d) 106	452	394
Natural gas (1,000 cu. ft.)					(d)71,000	564,989	1,260,123
<b>Australia—</b>							
Crude petroleum .. .. .	20,769	2,672	198	(c) 6,710	158,511	306,711	379,408
Motor spirit .. .. .	749,837	1,005,366	1,164,791	900,268	1,137,848	1,315,758	1,308,866
Kerosene .. .. .	198,094	248,896	276,536	280,769	306,770	406,039	401,153
Lubricating oil .. .. .	86,838	146,523	168,398	45,592	62,088	139,492	80,681
Residual and solar oils .. .. .	1,153,169	1,413,024	1,583,037	1,857,295	1,258,870	918,525	1,455,649
Petroleum jelly .. .. .	1,665	2,487	2,237	3,076	1,001	2,416	355
Greases .. .. .	194	16	150	126	66	(c) 1,713	17,369
Paraffin wax, etc. .. .. .	1,485	3,952	2,943	1,940	2,947	4,282	5,936
Mastic asphalt .. .. .	—	—	—	9	—	—	3
<b>Fiji—</b>							
Aviation spirit (e) .. .. .	(a)	(a)	(a)	(a)	1,679	2,154	3,859
Motor spirit .. .. .	5,423	3,051	4,279	4,833	8,401	7,680	7,533
Kerosene .. .. .	1,090	1,467	1,084	2,892	1,081	2,395	1,734

(a) Information not available.

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

(c) Excess of re-exports.

(d) April 15 to December 31 only.

(e) Imported for overseas air transportation. See exports.

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

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES (Cont.)</b>							
Fiji (Cont.)—							
Fuel oil and diesel oil ..	30,078	7,261	15,555	12,476	16,769	13,595	17,250
Lubricating oil .. ..	1,113	435	527	529	760	902	786
Greases .. ..	149	48	77	43	45	136	84
Bitumen and tar .. ..	137	121	173	242	477	1,421	746
New Zealand—							
Crude petroleum, fuel oil, etc. .. ..	319,367	305,985	397,973	284,487	226,738	281,068	391,712
Motor spirit .. ..	192,721	216,645	195,188	225,050	280,919	329,312	381,019
Turpentine substitute ..	1,415	2,291	2,220	2,313	3,672	3,020	4,397
Kerosene .. ..	8,137	6,384	7,250	8,754	4,696	5,460	6,850
do. power .. ..	17,636	32,742	22,719	34,647	29,373	25,329	32,227
Lubricating oil .. ..	8,102	14,566	14,143	11,130	13,592	23,591	25,622
Transformer oil .. ..	419	327	375	42	795	1,147	943
Other refined oils .. ..	1,280	3,471	4,356	1,413	2,696	4,418	5,047
Paraffin wax .. ..	483	2,835	528	1,001	311	1,430	1,742
Asphalt and bitumen ..	6,499	9,822	12,327	5,489	10,287	12,634	31,765
Solomon Islands (b)—							
Crude petroleum .. ..	} (a)	(a)	} —	83	1,812	65	(a)
Motor spirit .. ..				26	56	35	(a)
Kerosene .. ..				11	72	138	(a)
Lubricating oil .. ..				8	10	39	(a)
Irish Republic—							
Motor spirit .. ..	46,198	35,512	42,350	48,937	114,973	136,662	160,037
Kerosene .. ..	34,844	28,989	34,839	42,027	58,374	67,276	86,535
Fuel oil and gas oil ..	24,532	24,412	25,881	25,136	48,849	171,841	205,336
Lubricating oil .. ..	4,855	3,556	4,787	4,716	11,610	13,176	10,903
Paraffin wax .. ..	1,017	1,252	1,589	1,728	1,371	3,041	1,898
Asphalt and bitumen ..	444	364	259	387	16,029	14,709	25,958
<b>FOREIGN COUNTRIES</b>							
Austria—							
Motor spirit .. ..	} (a)	(a)	(a)	(a)	(a)	8,391	41,184
Gas oil .. ..						4,057	7,290
Fuel oil .. ..						—	2,325
Lubricating oil, etc. ..						870	4,427
Petroleum jelly .. ..						165	95
Paraffin wax .. ..						66	1,025
Ozokerite and ceresin ..						50	209
Asphalt .. ..						15	1,482
Petroleum coke .. ..	—	7,294					
Tar and pitch .. ..	132	1,980					
Belgium-Luxemburg E.U.—							
Crude petroleum .. ..	—	—	—	—	74,300	149,000	234,557
Motor spirit, etc. .. ..	19,362	15,657	9,476	107,300	335,900	344,000	633,800
Kerosene .. ..	67	28	23	14,500	12,100	14,000	13,700
Fuel oil, etc. .. ..	11,549	14,473	7,275	77,560	109,206	1,290,000	846,417
Lubricating oil .. ..	13,365	22,297	12,655	40,700	58,700	126,000	103,000
Other heavy oils .. ..	34	114	253	(a)	(a)	(a)	(a)
Petroleum jelly .. ..	443	118	93	(a)	(a)	(a)	618
Paraffin wax .. ..	482	564	473	333	3,204	(a)	3,174
Ozokerite and ceresin ..	788	525	513	(a)	(a)	(a)	(a)
Asphalt, bitumen, etc. ..	7,175	1,508	1,248	524	4,485	(a)	(a)
Residual asphalt .. ..	1,224	1,670	158	(a)	(a)	(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	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Bulgaria--							
Crude petroleum ..	7,900	3,697	10,146	4,571	6,571	(a)	(a)
Motor spirit .. ..	22,500	12,333	5,474	28,365	34,608		
Kerosene .. ..	15,065	20,019	13,916	29,747	38,441		
Gas oil .. ..	16,824	19,456	13,963	15,710	26,630		
Fuel oil .. ..	—	42	10	4,553	1,211		
Lubricating oil, etc. ..	6,131	7,313	6,651	4,337	11,721		
Paraffin wax, ceresin, etc.	500	678	151	450	557		
Tar .. ..	5	—	—	—	—		
Petroleum jelly .. ..	229	912	250	40	112		
Ozokerite and ceresin ..	35	77	105	104	5		
Asphalt and bitumen ..	2,158	7,053	1,412	925	620		
Czechoslovakia--							
Crude petroleum, etc. ..	(a)	(a)	(a)	(a)	89,425	183,003	(b) 186,366
Motor spirit and kerosene					12,756	2,984	(b) 2,174
Fuel oil and gas oil ..					63,303	89,345	(b) 60,984
Lubricating oil and greases					24,641	20,434	(b) 27,445
Paraffin wax .. ..					185	2,239	(b) 3,542
Ozokerite and ceresin ..					43	321	(b) —
Petroleum jelly .. ..					75	196	(b) 165
Asphalt products .. ..					237	886	(b) 383
Denmark--							
Crude petroleum .. ..	—	—	16,791	5,913	22,562	17,054	19,306
Motor spirit .. ..	15,485	6,715	4,522	32,286	213,626	280,675	299,395
Kerosene .. ..	11,800	7,909	5,231	21,560	33,932	32,619	32,741
Turpentine substitute ..	3,302	1,695	1,265	608	5,221	8,351	5,664
Fuel oil and gas oil ..	40,455	35,584	20,260	87,536	343,851	775,291	717,228
Lubricating oil and grease	4,367	7,731	8,389	12,202	35,528	26,146	45,540
Petroleum jelly .. ..	73	288	690	259	643	151	300
Ozokerite, etc. .. ..	632	363	770	180	747	292	409
Paraffin wax .. ..	577	827	926	238	1,005	1,398	1,549
Natural asphalt .. ..	1,444	718	97	406	6,193	2,868	6,822
Other asphalt and petroleum products ..	2,059	2,147	1,268	2,779	40,623	22,559	25,130
Finland (total imports)--							
Crude petroleum .. ..	491	117	30	22	28	—	—
Fuel oil .. ..	13,949	16,264	9,058	7,216	56,881	113,495	191,457
Motor spirit .. ..	70,577	65,721	22,415	11,621	65,994	164,785	224,295
Kerosene .. ..	4,390	3,163	10,832	2,633	16,499	18,983	15,034
Lubricating oil .. ..	5,791	10,378	7,363	3,006	7,151	15,095	21,358
Petroleum jelly .. ..	64	85	95	15	101	134	607
Paraffin wax .. ..	495	355	440	243	529	1,429	1,663
Asphalt and tar .. ..	2,045	5,213	2,029	526	7,852	17,532	13,384
France--							
Crude petroleum .. ..	—	—	5	204,124	2,643,683	4,907,595	7,372,981
Motor spirit .. ..	96,092	48,085	28,767	666,466	1,084,395	686,001	233,112
Kerosene .. ..	8,259	8,444	615	70,951	74,213	40,209	379
Lubricating oil .. ..	38,188	37,263	24,588	126,852	216,463	111,155	78,007
Fuel oil .. ..	20,670	7,051	776	333,572	409,713	524,709	598,839
Gas oil .. ..	64,170	43,708	34,742	296,636	372,865	197,735	84,562
Road oil, etc. .. ..	81	38	87	26,057	197,647	152,077	(a)
Petroleum coke .. ..	20,451	23,327	6,988	27,373	65,063	88,568	58,917
Paraffin wax .. ..	929	182	986	1,512	4,002	10,832	5,561
Ozokerite and ceresin ..	62	30	15	—	—	—	1,234
Petroleum jelly .. ..	42	36	61	148	809	1,021	30
Pitch .. ..	211	168	69	1,585	2,469	34,318	(a)
Asphalt and bitumen ..	57	25	118	97	1,117	660	508

(a) Information not available.

(b) January to October only.

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948	
<b>FOREIGN COUNTRIES (Cont.)</b>								
<b>Germany—</b>								
Crude petroleum ..	371,020	324,846	(b) 263,100	(a)	(d) —	(d) 39,000	(d) 247,331	
Motor spirit .. ..	899,982	701,931	(b) 255,932		(d) 390,000	(d) 379,000	(d) 562,277	
Kerosene .. ..	98,598	70,787	(b) 38,029		—	—	(a)	
Gas oil .. ..	320,459	338,087	(b) 221,728		(d) 435,000	(d) 501,000	(d) 584,028	
Fuel oil .. ..	5,852	66,059	(b) 56,221			(a)	(a)	(a)
Lubricating oil, etc. ..	103,020	65,849	(b) 59,100			(a)	(a)	(a)
Paraffin wax .. ..	10,875	13,633	(b) 8,840			(a)	(a)	(a)
Ozokerite, etc. .. ..	193	1,426	(b) 569			(a)	(a)	(a)
Asphalt .. ..	621	11	(b) 501			(a)	(a)	(a)
<b>Greece—</b>								
Motor spirit .. ..	7,300	7,500	3,100	21,474	62,547	147,673	193,000	
Kerosene .. ..	3,300	3,900	1,700	7,538	6,930	28,250	33,000	
Fuel oil and diesel oil ..	21,000	18,000	13,000	140	173,228	362,477	682,000	
Other oils and greases ..	1,196	1,686	1,764	3,485	14,876	6,699	20,000	
Petroleum jelly .. ..	(a)	(a)	(a)	47	160	(a)	(a)	
Asphalt and bitumen ..	48	—	—	10,818	5,706	6,046	2,800	
<b>Hungary—</b>								
Crude petroleum ..	(a)	(a)	(a)	(a)	3,800	10,000	(a)	
<b>Iceland—</b>								
Crude petroleum ..	14,699	—	—	—	—	(a)	(a)	
Motor spirit .. ..	13,221	13,935	12,725	16,723	22,120	34,200	28,100	
Kerosene .. ..	1,078	2,962	1,844	822	1	2,100	2,800	
Gas oil and fuel oil ..	7,190	20,080	18,319	16,236	36,776	58,700	90,000	
Lubricating oil .. ..	1,957	1,642	1,267	1,618	1,846	2,800	2,200	
Greases .. ..	55	38	49	77	50	190	90	
Paraffin wax .. ..	54	45	39	23	26	(a)	(a)	
Asphalt .. ..	28	28	151	245	454	(a)	(a)	
Petroleum jelly .. ..	9	4	5	7	1	(a)	(a)	
<b>Italy—</b>								
Crude petroleum ..	255,000	(c) 100,000	(a)	(a)	31,143	1,212,523	1,745,639	
Motor spirit .. ..	120,000	(c) 61,000			197,142	253,804	43,964	
Kerosene .. ..	69,000	(c) 45,000			75,600	106,953	16,608	
Gas oil .. ..	124,000	(c) 146,000			166,385	223,130	39,862	
Fuel oil .. ..	77,000	(c) 36,000			568,458	1,541,436	725,096	
Lubricating oil .. ..	55,000	(c) 22,000			13,160	141,641	49,559	
Petroleum jelly .. ..	1,650	(c) 1,345			(a)	1,953	469	
Paraffin wax, etc. ..	11,559	(c) 6,443			(a)	11,232	5,925	
Bitumen .. ..	18,602	(c) 9,678			(a)	93,473	62,590	
<b>Netherlands—</b>								
Crude petroleum ..	—	—	(a)	(a)	257,213	847,337	1,172,327	
Motor spirit .. ..	25,545	15,610			375,575	236,750	210,857	
Kerosene .. ..	10,437	5,431			286,457	316,451	232,026	
Gas oil .. ..	28,928	12,664			253,675	368,616	291,968	
Fuel oil .. ..	124	174			419,536	658,373	387,727	
Lubricating oil .. ..	3,640	8,806			62,013	65,121	64,353	
Greases .. ..	5	3			1,019	1,175	1,960	
Petroleum jelly .. ..	4	2			1,307	1,484	372	
Paraffin wax .. ..	1,525	1,228			2,337	4,241	6,673	
Ozokerite and ceresin ..	467	367			100	353	236	
Asphalt .. ..	74	819	6,880	1,227	370			
Natural asphalt .. ..	20	398	982	2,052	763			
<b>Norway—</b>								
Crude petroleum ..	—	—	5,832	12,532	—	—	—	
Motor spirit .. ..	82,112	67,013	58,541	36,144	214,025	226,998	202,349	
Turpentine substitute ..	819	634	122	2,015	9,332	8,523	6,970	
Kerosene .. ..	6,365	9,589	6,080	18,177	21,598	23,701	25,027	
Diesel oil .. ..	12,680	5,485	—	12,687	89,624	182,056	273,119	
Gas oil .. ..	58,397	66,859	87,726	81,340	160,922	233,494	305,723	
Fuel oil .. ..	1,056	4,812	—	8,740	81,958	267,895	472,093	
Residual oils, etc. ..	9,128	10,887	13,028	9,136	26,322	30,118	23,164	

(a) Information not available.

(b) January to July only.

(c) January to June only.

(d) Bizonal area only.

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
<b>Norway (Cont.)—</b>							
Paraffin wax .. ..	687	612	476	327	1,035	2,224	1,733
Petroleum jelly .. ..	243	443	533	449	2,218	1,917	774
Asphalt, etc. .. ..	698	601	1,586	6,279	32,276	24,025	33,608
<b>Poland—</b>							
Crude petroleum .. ..	(a)	(a)	(a)	(a)	19,405	43,353	(a)
Motor spirit .. ..	(a)	(a)	(a)	(a)	205,598	86,955	(a)
Kerosene .. ..	(a)	(a)	(a)	(a)	9,760	38,184	(a)
Gas oil .. ..	(a)	(a)	(a)	(a)	81,150	68,459	(a)
Lubricating oil .. ..	(a)	(a)	(a)	(a)	29,120		
<b>Portugal—</b>							
Crude petroleum .. ..	17,196	—	—	26,397	101,048	263,400	320,086
Motor spirit .. ..	13,008	30,463	38,410	44,337	60,305	68,080	82,465
Kerosene .. ..	2,142	17,161	26,161	33,020	45,354	43,267	57,163
Gas oil and diesel oil .. ..	6,408	23,013	27,578	31,132	36,719	46,185	31,788
Fuel oil .. ..	1,581	8,447	9,280	40,373	95,085	122,178	67,424
Lubricating oil .. ..	1,656	5,808	6,767	7,008	12,544	12,992	19,272
Other mineral oils .. ..	169	180	190	689	1,981	3,141	1,729
Petroleum jelly .. ..	46	135	136	175	128	190	124
Paraffin wax .. ..	128	781	282	785	923	1,974	1,833
Natural asphalt .. ..	3,102	403	2,712	5,681	14,835	28,504	21,821
<b>Spain—</b>							
Crude petroleum .. ..	(a)	(a)	(a)	94,472	130,842	—	—
Light petroleum .. ..	(a)	(a)	(a)	1,783	1,825	—	—
Motor spirit .. ..	(a)	(a)	(a)	230,641	334,108	367,123	355,623
Kerosene .. ..	(a)	(a)	(a)	6,762	21,962	26,134	6,143
Diesel oil .. ..	(a)	(a)	(a)	95,823	164,322	164,266	170,798
Lubricating oil .. ..	(a)	(a)	(a)	41,805	56,610	52,765	59,441
Fuel oil .. ..	(a)	(a)	(a)	102,808	136,493	325,074	349,285
Petroleum jelly .. ..	(a)	(a)	(a)	92	132	157	272
Paraffin wax .. ..	(a)	(a)	(a)	431	737	1,066	1,150
Asphalt .. ..	(a)	(a)	(a)	22,736	39,936	65,630	32,236
<b>Sweden—</b>							
Crude petroleum .. ..	—	—	—	14,086	452,554	469,107	565,890
Motor spirit .. ..	44,580	30,417	32,541	39,063	451,089	650,138	553,511
Kerosene .. ..	34	8	9	14,684	117,785	129,150	173,101
Fuel oil and gas oil .. ..	45,300	86,126	80,204	105,703	718,247	1,735,564	1,837,270
Lubricating oil .. ..	16,221	28,299	22,004	19,350	68,488	68,811	59,552
Petroleum jelly .. ..	550	1,292	395	506	1,201	970	786
Other oils .. ..	78	146	47	186	1,008	316	363
Paraffin wax .. ..	1,296	969	706	2,716	5,878	7,671	5,864
Ozokerite and ceresin .. ..	227	387	412	135	1,225	1,204	1,451
Asphalt .. ..	1,860	2,175	2,590	1,248	4,281	4,723	3,922
Pitch .. ..	15,687	9,439	6,928	19,171	25,396	21,705	11,984
<b>Switzerland—</b>							
Motor spirit .. ..	33,618	29,006	35,577	11,181	148,142	197,755	235,473
Kerosene .. ..	6,109	3,686	1,669	79	15,103	11,264	43,144
Fuel oil .. ..	40,715	33,550	18,130	18,376	216,980	427,882	397,457
Lubricating oil and grease .. ..	13,388	10,992	5,209	3,185	28,723	30,492	30,215
Other oils .. ..	4,656	4,387	1,283	8	7,036	67,653	94,051
Petroleum jelly .. ..	448	210	146	294	1,811	892	620
Paraffin wax and ceresin .. ..	1,792	415	520	48	3,193	2,644	2,630
Asphalt and bitumen .. ..	15	—	—	408	716	687	664
<b>Algeria—</b>							
Motor spirit .. ..	7,295	88,068	46,084	57,078	129,591	142,595	155,791
Kerosene .. ..	2,852	33,987	23,615	2,472	38,500	46,769	53,679
Gas oil .. ..	391	18,695	27,698	31,253	44,177	58,144	91,432
Fuel oil and diesel oil .. ..	2,360	7,883	8,372	17,831	72,230	109,603	165,688
Lubricating oil .. ..	1,018	6,508	7,588	7,067	13,869	14,732	13,730
Road oil, etc. .. ..	7	585	4,897	3,859	22,241	17,261	25,141
Paraffin wax .. ..	—	59	440	283	269	763	443
Petroleum jelly .. ..	—	—	31	12	11	45	8
Ozokerite and ceresin .. ..	56	—	—	6	111	156	10
Asphalt and bitumen .. ..	59	—	—	16	601	961	83

(a) Information not available.

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948					
FOREIGN COUNTRIES (Cont.)												
Angola—												
Motor spirit .. ..	4,913	4,609	5,407	6,147	10,069	11,644	(a)					
Kerosene .. ..	729	703	857	1,056	1,465	1,125	(a)					
Gas oil and fuel oil .. ..	1,888	1,624	2,357	2,386	3,684	3,950	(a)					
Lubricating oil .. ..	823	834	783	431	1,395	1,678	(a)					
Belgian Congo—												
Motor spirit .. ..	(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								
Cameroun (French)—												
Motor spirit .. ..	6,806	5,743	4,497	5,923	7,889	8,014	17,034					
Kerosene .. ..	678	1,076	758	991	1,624	1,774	4,458					
Fuel oil .. ..	947	821	832	1,031	1,453	1,524	3,303					
Lubricating oil .. ..	477	776	792	368	784	715	1,747					
Canary Islands—												
Crude petroleum .. ..	(a)	(a)	(a)	{	152,286	454,143	945,834					
Aviation spirit .. ..								—	556			
Diesel oil .. ..								3,008	270,120			
Fuel oil .. ..								2,917	218,750			
Lubricating oil .. ..				980	840							
Cape Verde Islands—												
Motor spirit .. ..	104	75	127	(a)	(a)	(a)	(a)					
Kerosene .. ..	69	87	185									
Fuel oil (b) .. ..	3,869	15,166	9,075									
Ceuta—												
Petroleum products (b) ..	(a)	(a)	(a)	14,003	44,879	259,232	(a)					
Egypt—												
Crude petroleum .. ..	10	—	—	—	5	—	—					
Motor spirit .. ..	423,408	473,491	191,387	149,281	31,962	30,028	19,741					
Turpentine substitute .. ..	292	409	2,206	1,011	1,062	606	808					
Kerosene .. ..	217,050	241,930	472,822	480,784	533,956	442,679	317,356					
Fuel oil .. ..	285,963	613,421	903,115	1,026,797	{	721,290	685,169	634,635				
Gas oil .. ..									183,309	133,416	40,532	
Diesel oil .. ..									132,345	136,657	132,207	
Lubricating oil .. ..									24,761	19,555	29,977	
Petroleum jelly .. ..	144	97	323	284	251	426	473					
Paraffin wax .. ..	128	46	134	394	156	366	628					
Ozokerite and ceresin .. ..	—	—	2	—	10	17	35					
Asphalt and bitumen .. ..	44	60	784	570	620	880	1,889					
Ethiopia—												
Motor spirit .. ..	(a)	(a)	(a)	{	(c) 6,081	(c) 8,147	(c) 7,449	(c) 7,344				
Kerosene .. ..									(c) 1,782	(c) 2,164	(c) 1,909	(c) 1,527
Fuel oil, gas oil, etc. ..									(c) 6,192	(c) 10,101	(c) 8,638	(c) 11,094
French Equatorial Africa—												
Aviation spirit .. ..	6,779	1,690	291	923	1,568	17,382	20,953					
Motor spirit .. ..	16,405	10,407	6,741	9,856	12,773							
Kerosene .. ..	919	1,558	903	1,238	1,939	1,982	2,336					
Gas oil .. ..	1,760	1,589	851	1,302	1,238	2,661	6,584					
Fuel oil .. ..	713	79	276	81	721							
Lubricating oil .. ..	2,065	1,282	717	745	1,297	1,476	2,228					
Grease .. ..	191	90	50	17	56	(a)	(a)					
French Somaliland—												
Motor spirit .. ..	462	2,497	1,714	1,781	2,524	3,430	{					
Kerosene .. ..								59				
Lubricating oil .. ..								1,051				

(a) Information not available.

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

(c) Years ended September 10.

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948	
FOREIGN COUNTRIES (Cont.)								
French Togoland—								
Crude petroleum ..	20	2	3	34	7	(a)	82	
Motor spirit .. ..	9	638	358	510	950	1,458	1,569	
Kerosene .. .. .	11	405	402	466	916	1,034	1,198	
Fuel oil .. .. .	1	371	93	309	817	475	889	
Lubricating oil ..	—	75	181	57	118	148	342	
French West Africa—								
Motor spirit .. ..	5,489	11,779	15,846	} 70,781	{ 35,498	40,928	65,551	
Kerosene .. .. .	179	2,518	5,647			11,850	12,181	12,406
Fuel oil .. .. .	120	6,031	4,881			19,661	12,265	23,851
Lubricating oil ..	788	1,618	4,109			3,771	6,585	7,532
Madagascar—								
Motor spirit .. ..	} 567	1,840	5,346	7,804	12,794	19,750	19,914	
Kerosene .. .. .		1,637	2,116	2,335	2,135	4,246	2,850	
Fuel oil, gas oil, etc.		1,754	1,527	10,581	1,616	4,643	4,532	
Road oil, etc. .. .		507	—	—	1,196	1	4,011	
Lubricating oil ..	} 507	565	1,856	1,120	1,540	1,923	3,866	
Asphalt and bitumen		(a)	(a)	(a)	5	343	71	43
Melilla—								
Petroleum products	(a)	(a)	(a)	6,431	10,769	9,363	(a)	
Morocco (French)—								
Crude petroleum ..	1,105	6,776	14,150	6,344	10,957	28,139	(a)	
Motor spirit .. ..	5,568	16,396	43,873	32,546	61,586	168,553	108,213	
Kerosene .. .. .	(a)	(a)	(a)	(a)	(a)	18,327	23,800	
Gas oil .. .. .	900	8,715	24,189	17,894	25,476	49,222	57,750	
Fuel oil .. .. .	2,660	3,253	17,401	10,695	55,600	122,552	175,437	
Lubricating oil ..	469	2,399	4,287	3,344	6,451	9,940	(a)	
Grease .. .. .	11	225	483	405	444	1,079	(a)	
Paraffin wax .. ..	256	—	1,849	2,077	1,901	6,090	(a)	
Asphalt and bitumen	—	589	7,110	63	9	919	(a)	
Morocco (Spanish)—								
Crude petroleum ..	} (a)	(a)	(a)	(a)	983	173	(a)	
Motor spirit .. ..			5,669	7,397	8,350	10,087	(a)	
Kerosene .. .. .			(a)	(a)	870	1,445	(a)	
Gas oil .. .. .			1,311	2,392	1,991	2,196	(a)	
Fuel oil .. .. .			296	132	149	265	(a)	
Lubricating oil and grease			311	558	400	1,643	(a)	
Paraffin wax .. ..			21	99	37	106	(a)	
Asphalt .. .. .	96	519	266	281	(a)			
Mozambique—								
Motor spirit .. ..	8,640	8,685	9,205	10,085	13,103	17,110	20,573	
Kerosene .. .. .	4,117	3,640	3,812	4,123	5,093	6,192	7,341	
Fuel oil .. .. .	6,543	4,947	5,734	5,013	6,112	9,655	12,295	
Lubricating oil ..	1,495	1,309	1,881	1,632	1,749	2,179	2,352	
Paraffin wax .. ..	37	4	47	49	46	40	30	
Petroleum jelly ..	6	3	13	10	12	12	11	
Asphalt and bitumen (b)	648	220	201	355	2,337	673	961	
Portuguese Guinea—								
Motor spirit .. ..	40	144	338	382	750	584	(a)	
Kerosene .. .. .	—	52	142	139	172	281	(a)	
Fuel oil .. .. .	78	170	200	158	271	204	(a)	
Lubricating oil ..	26	14	35	25	72	118	(a)	
Réunion—								
Motor spirit .. ..	3	183	731	695	987	} 13,838	2,656	
Kerosene .. .. .	—	216	479	395	326		497	
Heavy oils .. .. .	1	30	138	174	199		486	
Grease .. .. .	—	—	10	15	6		—	
S. Thomé and Príncipe—								
Motor spirit .. ..	51	132	116	} (a)	(a)	(a)	(a)	
Kerosene .. .. .	28	38	38					
Fuel oil .. .. .	46	20	48					

(a) Information not available.

(b) Including coal tar and pitch.



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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
<b>Tunis—</b>							
Motor spirit .. ..	415	5,748	21,234	19,342	32,317	39,101	50,264
Kerosene .. ..	1,964	576	6,447	8,713	15,746	14,887	28,023
Fuel oil .. ..	2,087	—	461	2,685	5,438	19,287	16,532
Gas oil .. ..	979	5,920	25,987	20,836	28,677	52,608	53,148
Road oil .. ..	18	—	—	—	—	—	—
Lubricating oil .. ..	233	154	10	4,563	6,608	4,606	10,577
Petroleum jelly .. ..	—	—	—	18	26	9	3
Paraffin wax .. ..	3	—	67	194	9	117	105
Asphalt and bitumen .. ..	79	—	—	—	—	—	—
<b>Costa Rica (b)—</b>							
Motor spirit .. ..	11,000	9,000	13,000	17,147	16,385	12,900	22,503
Kerosene .. ..	2,291	2,673	2,291	2,927	(a)	2,800	137
Diesel oil .. ..	5,716	8,231	11,469	18,417	16,906	23,254	28,022
Fuel oil .. ..	18,363	16,826	34,189	26,856	29,028	40,103	38,410
Lubricating oil .. ..	978	1,271	1,594	1,413	2,157	2,008	1,821
Grease .. ..	73	160	131	103	117	36	170
Petroleum jelly .. ..	8	51	17	24	18	486	(a)
Paraffin wax .. ..	682	337	781	267	584	850	1,145
Asphalt .. ..	487	1,248	1,752	59	955	5,000	137
<b>Cuba (b)—</b>							
Crude petroleum .. ..	112,627	107,263	80,562	114,767	137,252	206,600	215,142
Aviation spirit .. ..	(a)	(a)	(a)	(a)	(a)	15,333	22,000
Motor spirit .. ..	45,962	23,210	26,169	36,093	73,566	151,127	208,500
Kerosene .. ..	32	161	679	511	(a)	—	(a)
Fuel oil .. ..	672,851	895,921	986,478	1,031,254	1,357,760	1,213,479	1,173,812
Gas oil .. ..	2,690	7,586	11,116				
Lubricating oil .. ..	10,582	9,095	9,683	11,212	11,772	11,621	35,100
Residual oils .. ..	—	10,473	—	—	—	—	—
Petroleum jelly .. ..	478	781	1,006	—	—	—	—
Greases .. ..	1	1	9	7	—	—	—
Paraffin wax .. ..	1,459	1,069	2,095	1,211	(a)	(a)	(a)
Asphalt rock .. ..	4	4,103	—	200	—	—	—
Other asphalt .. ..	209	6	91	24	—	—	—
Bitumen .. ..	182	162	179	229	—	—	—
Petroleum coke .. ..	5,958	13,132	3,469	2,980	—	—	—
<b>Dominican Republic (b)—</b>							
Motor spirit .. ..	10,000	10,000	11,152	11,873	—	30,035	53,727
Kerosene .. ..	3,000	2,000	2,536	3,832	—	6,504	7,042
Fuel oil .. ..	21,000	29,000	27,759	21,810	(a)	42,849	59,347
Lubricating oil .. ..	1,100	1,700	1,684	1,532	—	6,506	7,437
Other oils .. ..	1,000	3,000	972	696	—	3,329	3,972
<b>French West Indies—</b>							
<b>Guadeloupe—</b>							
Motor spirit and kerosene .. ..	1,122	1,193	3,092	3,947	6,027	10,558	9,231
Fuel oil and lubricating oil .. ..	2,647	3,507	2,537	3,354	5,228		
<b>Martinique—</b>							
Motor spirit .. ..	1,397	742	2,177	3,348	4,468	6,201	7,771
Kerosene .. ..	367	964	1,049	871	1,055	1,817	1,350
Fuel oil .. ..	4,638	2,255	4,638	4,054	4,455	5,441	6,012
Lubricating oil .. ..	143	156	251	658	444	304	461
<b>Guatemala—</b>							
Crude petroleum, etc. .. ..	67,000	42,000	72,000	79,000	93,000	134,813	174,776
Aviation spirit .. ..	(a)	(a)	(a)	900	5,600	7,386	9,296
Motor spirit .. ..	8,800	6,900	6,700	5,000	19,000	23,984	45,705
Kerosene .. ..	2,400	1,900	2,300	2,800	3,000	4,341	8,350
Diesel oil .. ..	7,500	11,300	19,900	25,000	22,000	18,032	37,949
Lubricating oil .. ..	1,300	1,500	1,500	1,800	(a)	2,302	3,217
Grease .. ..	154	118	162	174	(a)	66	255

(a) Information not available.

(b) Total imports.

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
<b>Guatemala (Cont.)</b>							
Asphalt .. .. .	1,975	1,663	2,989	344	(a)	2,539	3,172
Paraffin wax, etc. ..	489	593	1,118	870	(a)	1,281	1,596
<b>Haiti (b)—</b>							
Motor spirit .. .. .	6,885	5,279	7,115	9,400	11,200	14,500	(a)
Kerosene .. .. .	2,800	509	2,164	2,990	3,800	3,970	(a)
Fuel oil .. .. .	5,542	3,938	4,083	3,900	7,000	9,130	(a)
Lubricating oil .. ..	420	280	560	580	500	540	(a)
<b>Honduras (c)—</b>							
Motor spirit .. .. .	4,600	7,700	5,600	7,886	9,536	(a)	(a)
Kerosene, etc. .. ..	500	800	700	932	962		
Fuel oil .. .. .	19,700	55,300	57,600	85,000	95,371		
Lubricating oil .. ..	900	900	800	4,502	1,494		
<b>Mexico—</b>							
Crude petroleum .. ..	14,645	11,552	8,963	11,023	23,277	28,057	46,579
Motor spirit .. .. .	42,184	27,335	41,674	54,740	118,625	145,166	182,507
Kerosene .. .. .	1,468	2,573	4,140	5,512	10,165	12,614	16,243
Gas oil .. .. .	3,992	5,645	10,916	13,760	15,750	26,356	10,419
Fuel oil .. .. .	18,895	30,605	48,714	47,419	101,094	128,467	151,931
Lubricating oil .. ..	17,430	26,182	28,699	39,862	37,472	45,755	36,291
Grease .. .. .	1,964	1,919	2,326	2,772	3,738	3,819	3,000
Paraffin wax .. .. .	3,121	3,917	8,217	4,736	12,689	5,000	11,800
Petroleum jelly .. ..	297	396	940	670	1,048	1,000	370
Asphalt .. .. .	172	392	1,411	357	3,050	12,000	9,900
Asphalt rock .. .. .	36	392	42	2	13	(a)	(a)
Natural gas (1,000 cu. ft.)	9,737,703	11,723,062	14,001,756	18,451,916	17,704,679	17,595,653	(a)
<b>Netherlands West Indies—</b>							
Crude petroleum .. ..	12,538,000	20,250,000	25,599,000	30,539,129	33,069,000	37,478,000	(a)
Aviation spirit .. .. .	(a)	(a)	95,305	106,047	500	3,800	(a)
Motor spirit .. .. .	205,000	112,000			(a)	2,980	23,400
Kerosene .. .. .	—	—	4,255	4,960	(a)	(a)	(a)
Fuel oil .. .. .	487,000	951,000	68,746	1,833,914	1,614,600	1,702,000	(a)
Diesel oil .. .. .	376,000	35,000	71,069	141,733	58,400	(a)	(a)
Gas oil .. .. .			39,225	16,972	49,000	9,500	(a)
Lubricating oil .. ..	2,800	—	2,628	1,930	700	840	(a)
<b>Nicaragua (d)—</b>							
Motor spirit .. .. .	5,407	11,749	8,824	10,026	11,397	14,000	16,000
Kerosene .. .. .	1,477	1,204	1,881	1,557	2,391	2,800	3,300
Fuel oil .. .. .	13,997	31,045	20,483	31,209	23,630	19,000	22,000
Lubricating oil .. ..	928	1,255	1,649	1,581	1,502	1,677	1,900
<b>Panama—</b>							
Motor spirit .. .. .	36,700	27,400	25,200	39,000	35,000	39,000	(a)
Kerosene .. .. .	6,700	5,800	3,300	8,000	8,000	9,000	(a)
Diesel oil .. .. .	13,200	6,900	7,700	14,000	18,000	21,000	(a)
Fuel oil .. .. .	73,400	63,800	46,000	72,000	75,000	73,000	(a)
Lubricating oil .. ..	4,000	1,500	2,100	6,580	6,720	2,800	(a)
<b>St. Pierre and Miquelon—</b>							
Motor spirit .. .. .	598	625	165	549	869	312	(a)
Gas oil and fuel oil ..							
<b>Salvador—</b>							
Motor spirit .. .. .	5,500	4,000	4,700	6,100	11,246	14,229	17,300
Kerosene .. .. .	1,650	1,140	1,140	1,780	2,545	2,800	3,400
Fuel oil .. .. .	10,800	17,500	27,100	9,900	21,583	8,021	29,000
Diesel oil .. .. .	4,780	4,230	4,230	4,370	7,383	8,066	11,000
Lubricating oil and grease	770	610	460	650	790	1,700	980
Asphalt .. .. .	680	1,740	1,200	800	—	1,217	1,665

(a) Information not available.

(b) Years ended September 30.

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

(d) Total Imports.

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
<b>United States—</b>							
Crude petroleum ..	1,934,000	1,972,000	6,406,000	10,571,973	12,744,299	14,187,878	18,083,928
Aviation spirit ..	18,646	} 767,609	{ 8,388	125,566	55,66	3	113
Motor spirit, etc. ..	106,030						
Naptha ..	22	—	—	—	7	37,374	23
Kerosene ..	74,438	72,956	46,547	30,183	(a)	32	19,381
Fuel oil ..	2,495,354	4,028,653	5,555,328	4,955,227	6,931,885	8,546,931	8,219,709
Gas oil and diesel oil ..	516,660	2,122,585	1,744,387	2,748,894	1,257,391	584,992	346,209
Unfinished distillates and topped oils ..	463,237	175,695	1,449	150	3,463	18,891	25,993
Lubricating oil, etc. ..	1,026	661	394	920	12,661	6,321	14,316
Road oil, etc. ..	40,717	8,179	2,073	3,526	22,425	19,695	30,526
Paraffin wax, etc. ..	(b) 4,352	(b) 48	—	832	131	435	3,349
Ozokerite and ceresin ..	(b) 6	5	—	—	—	10	85
Petroleum jelly ..	29	5	—	—	—	42	(a)
Asphalt (petroleum) ..	61,284	90,258	111,552	127,502	86,789	163,714	220,677
Asphalt and bitumen (natural) ..	7,180	7,060	7,353	4,595	3,972	5,022	5,951
Natural gas (1,000 cu. ft.)	(a)	(a)	—	—	(a)	—	1,188
<b>Argentina—</b>							
Crude petroleum ..	283,770	132,167	133,281	140,937	895,493	1,230,000	1,865,030
Motor spirit ..	164	8	17	308	14,596	98,279	183,318
Kerosene ..	5,314	18,238	4,568	172	11,512	(a)	(a)
Gas oil ..	13,496	—	4	2,411	2,450	6,083	14,180
Fuel oil ..	607,052	234,830	235,011	317,115	2,017,763	2,299,250	2,503,709
Diesel oil ..	60,121	45,539	8,040	60,282	190,191	67,807	73,679
Lubricating oil ..	2,110	3,790	3,268	2,400	7,778	}	
Petroleum jelly ..	498	99	394	499	441		
Grease ..	55	24	29	53	99	}	
Paraffin wax ..	2,060	29	—	180	568		
Ozokerite and ceresin ..	12	—	—	4	175	(a)	(a)
Asphalt for paving ..	460	60	100	5	10	}	
Asphalt for roofing ..	1,919	60	38	75	220		
Other asphalt and bitumen	58	—	—	—	265	}	
Pitch ..	—	—	—	25	22		
<b>Bolivia—</b>							
Crude petroleum, etc. ..	53,000	55,000	} (a)	{ 65,000	58,040	71,867	65,846
Aviation spirit ..	2,900	2,300					
Motor spirit ..	11,100	14,200	} (a)	{ 16,800	15,742	18,180	31,987
Kerosene ..	900	1,700					
Lubricating oil and grease	4,000	3,900	} (a)	{ 2,400	2,950	2,898	2,715
Paraffin wax ..	390	620					
Tar, pitch, etc. ..	2,340	440	} (a)	{ 2,460	778	1,342	985
..	—	—					
<b>Brazil (total imports)—</b>							
Crude petroleum ..	10,987	36,001	17,807	9,823	36,135	8,558	—
Motor spirit ..	247,073	270,651	298,911	405,083	613,996	918,182	1,114,523
Kerosene ..	51,794	68,262	63,212	53,311	105,775	135,548	189,082
Gas oil ..	11,484	23,059	25,279	13,083	14,718	7,654	10,750
Diesel oil ..	74,724	66,752	72,516	98,587	137,651	252,608	} 1,699,686
Fuel oil ..	302,198	295,482	216,977	296,112	659,726	1,034,537	
Lubricating oil ..	47,196	34,664	70,988	67,475	51,011	88,523	95,532
Transformer oil ..	1,151	835	2,388	1,154	1,021	2,480	(a)
Petroleum jelly ..	502	665	3,243	2,133	855	586	(a)
Greases ..	456	92	633	604	854	1,159	(a)
Paraffin wax ..	755	716	1,673	1,681	1,418	2,873	(a)
Asphalt and bitumen ..	15,383	5,526	27,854	9,230	6,331	13,585	10,202

(a) Information not available.

(b) Total imports.

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Chile—							
Crude petroleum ..	673,792	781,143	666,257	571,083	831,739	790,317	867,086
Motor spirit .. ..	100,934	89,359	88,925	101,249	160,420	202,076	222,788
Kerosene .. .. .	13,754	10,860	14,143	16,097	22,187	24,436	30,000
Diesel oil .. .. .	56,362	81,884	43,755	90,248	66,672	72,734	160,425
Fuel oil .. .. .	5,126	1,354	45,829	78,895	22,186	732,083	760,229
Lubricating oil ..	16,133	15,014	14,880	14,314	14,027	18,200	16,940
Petroleum jelly ..	46	88	159	114	58	(a)	274
Greases .. .. .	510	651	719	641	660	(a)	1,539
Ozokerite .. .. .	2	1	3	3	7	(a)	(a)
Natural asphalt ..	211	733	396	85	485	(a)	(a)
Paraffin wax .. ..	4,936	1,467	4,880	6,687	4,377	5,750	5,482
Tar and pitch .. ..	4,616	2,400	3,077	6,401	6,371	3,163	3,438
Colombia—							
Motor spirit .. .. .	22,708	14,866	21,264	24,773	66,222	100,410	172,820
Kerosene .. .. .	45	16	(a)	24	36	(a)	(a)
Fuel oil and gas oil	15,655	10,589	2,420	15,375	23,206	19,429	55,562
Diesel oil .. .. .	(a)	(a)	137	—	247	3,000	6,016
Lubricating oil, etc.	1,828	3,707	4,760	6,093	6,011	9,240	7,700
Petroleum jelly ..	39	139	152	140	148	(a)	(a)
Paraffin wax .. ..	2,768	2,276	5,279	5,910	6,285	6,158	9,117
Asphalt .. .. .	26	35	206	409	294	(a)	(a)
Ecuador—							
Motor spirit .. .. .			1,262	1,951	3,442		
Lubricating oil and greases	(a)	(a)	1,944	1,680	2,240	(a)	(a)
Asphalt and bitumen ..			(a)	590	665		
French Guiana—							
Motor spirit .. .. .	300	192	388	329	380		
Kerosene .. .. .	132	135	304	142	253	1,405	1,671
Fuel oil, etc. .. ..	219	313	254	183	373		
Paraguay—							
Motor spirit .. .. .			4,820	4,980	8,721		
Kerosene .. .. .			1,018	1,038	2,673		
Fuel oil, etc. .. ..			1,166	—	437		
Gas oil .. .. .	(a)	(a)	538	426	269	(a)	(a)
Lubricating oil .. ..			980	140	280		
Paraffin wax .. .. .			—	9,448	98		
Asphalt, tar, etc. ..			(a)	608	(a)		
Peru—							
Crude petroleum ..	23	—	—	6	4	—	
Motor spirit and gas oil	8,680	3,708	532	2,292	5,499	23,087	
Kerosene .. .. .	569	6	7	—	1	—	
Lubricating oil .. ..	4,852	4,925	5,722	3,954	5,912	6,003	(a)
Petroleum jelly .. ..	178	883	216	173	265	122	
Paraffin wax .. .. .	1,122	(a)	2,724	3,144	1,851	2,760	
Asphalt and bitumen ..	72	87	149	301	74	21	
Greases .. .. .	(a)	(a)	461	204	356	317	
Ozokerite .. .. .	4	7	11	16	9	18	
Uruguay—							
Crude petroleum ..	(a)	(a)	176,570	300,280	264,850	405,850	(a)
Motor spirit, etc. ..	—	8	1,156	15,950	16,639	41,655	(a)
Kerosene .. .. .	5,565	(a)	(a)	(a)	(a)	(a)	(a)
Gas oil .. .. .	(a)	(a)	5,239	(a)	(a)	(a)	(a)
Fuel oil, etc. .. ..	303,744	228,117	57,780	133,800	204,000	179,900	(a)
Lubricating oil and greases	5,124	3,529	3,022	7,140	10,780	(a)	(a)
Paraffin wax .. .. .	(a)	89	153	(a)	(a)	(a)	(a)
Petroleum jelly .. ..	(a)	115	103	(a)	(a)	(a)	(a)
Asphalt and bitumen ..	(a)	762	3,143	(a)	(a)	(a)	(a)

(a) Information not available.

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
<b>Venezuela—</b>							
Motor spirit .. ..	11,955	4,518	(a)	1,418	6,453	20,698	(a)
Turpentine substitute ..	5	5		34	22	17	
Kerosene .. ..	3,076	563		—	—	669	
Gas oil .. ..	—	—		20	239	799	
Fuel oil .. ..	9,406	12		—	—	1	
Lubricating oil .. ..	7,374	11,877		9,660	10,080	(a)	
Paraffin wax .. ..	641	846		781	2,231	3,202	
Petroleum jelly .. ..	57	73		115	80	256	
Natural gas .. ..	827	1,187	1,579	1,720	(a)	812	
Asphalt, bitumen, etc. ..	505	743	3,248	162	—	—	
<b>China—</b>							
Motor spirit .. ..	115	115	1,721	5,164	(a)	(a)	(a)
Kerosene .. ..	255	—	—	1,782	234,308	303,824	(a)
Fuel oil and diesel oils ..	—	—	—	1,413	337,750	1,249,208	(a)
Lubricating oil .. ..	420	140	1,540	560	56,009	55,970	(a)
Paraffin wax .. ..	396	87	12	—	5,096	5,623	(a)
Asphalt .. ..	(a)	(a)	(a)	(a)	12,699	17,076	(e)
<b>French Indo-China—</b>							
Motor spirit .. ..	15,820	(a)	(a)	(a)	7,700	20,000	(d) 21,000
Kerosene .. ..					1,600	10,000	(d) 16,000
Fuel oil .. ..					5,000	11,000	(d) 5,000
Gas oil .. ..					(a)	5,000	(d) 15,000
Lubricating oil .. ..					1,400	(a)	(a)
<b>Iran (c) (b)—</b>							
Crude petroleum .. ..	—	72	429	(a)	(a)	(a)	(a)
Motor spirit .. ..	214	3,472	689				
Kerosene .. ..	1,279	20,886	11,327				
Gas oil .. ..	239	1,775	(a)				
Fuel oil .. ..	1,100	4,608	(a)				
Lubricating oil .. ..	5,602	14,477	(a)				
Greases .. ..	—	—	572				
Paraffin wax .. ..	644	600	51				
Petroleum jelly .. ..		33	7				
Asphalt, tar and bitumen		337	(a)				
<b>Iraq—</b>							
Crude petroleum .. ..	103,568	51,943	120,848	131,234	(a)	(a)	(a)
Motor spirit .. ..	7,082	7,606	8,308	9,546	14,918	15,262	(a)
Kerosene .. ..	6,573	11,778	11,959	17,284	(a)	(a)	(a)
Fuel oil .. ..	121	148	1	(a)	(a)	(a)	(a)
Lubricating oil .. ..	7,009	3,971	9,183	6,307	7,840	9,100	(a)
Greases .. ..	89	119	118	70	(a)	(a)	(a)
Asphalt and bitumen ..	504	91	1,107	1,315	(a)	(a)	(a)
<b>Japan—</b>							
Crude petroleum .. ..	1,180,571	972,286	1,722,714	718,857	—	—	—
Motor spirit .. ..	300,000	600,000	400,000	—	48,224	145,467	227,557
Kerosene .. ..				3,182	18,152	13,584	
Other refined products ..				18,725	260,285	327,323	1,000,000
<b>Netherlands East Indies—</b>							
Crude petroleum .. ..	(a)	(a)	(a)	(a)	(a)	(a)	904,000
Motor spirit .. ..					64,834	37,524	28,574
Kerosene .. ..					7,000	16,163	7,636
Fuel and gas oils .. ..					54,824	(a)	8,194
Lubricating oil .. ..					4,340	17,640	28,840
Asphalt .. ..	(a)	20,464	30,147				

(a) Information not available.

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

(c) Total imports.

(d) Incomplete.

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
<b>Philippine Republic—</b>							
Motor spirit .. ..	(a)	(a)	(a)	—	84,485	284,000	412,500
Kerosene .. ..				—	44,992	81,000	114,600
Other light oils .. ..				—	81	(a)	(a)
Fuel oil .. ..				—	10,019	103,600	269,000
Lubricating oils .. ..				—	9,762	36,900	19,600
Grease .. ..				—	729	2,115	1,909
Petroleum jelly .. ..				—	1,684	1,015	1,107
Mineral wax .. ..				—	153	991	2,354
Asphalt .. ..	(a)	(a)	(a)	60	23,641	3,211	148,241
<b>Portuguese India—</b>							
Motor spirit .. ..	1,033	794	883	797	1,184	1,278	(a)
Kerosene .. ..	1,551	1,431	1,524	1,653	2,337	2,738	(a)
Lubricating oils .. ..	226	237	199	284	220	264	(a)
Other oils .. ..	762	1,500	1,016	994	1,208	1,569	(a)
<b>Syria and Lebanon—</b>							
Crude petroleum .. ..	139,270	143,313	187,927	2,093,127	—	(a)	(a)
Motor spirit .. ..	58,693	49,598	19,135	17,327	8,951	29,720	(a)
Kerosene .. ..	15,177	20,384	18,511	24,089	13,967	—	(a)
Fuel oil and diesel oil .. ..	10,972	37,506	24,426	40,968	30,794	33,979	(a)
Lubricating oil .. ..	1,729	1,675	2,305	3,277	2,548	5,600	(a)
Paraffin wax .. ..	—	29	41	57	70	(a)	(a)
Petroleum jelly .. ..	9	2	4	11	48	(a)	(a)
Asphalt and bitumen .. ..	73	105	239	13	3,334	19,365	(a)
<b>Turkey—</b>							
Motor spirit .. ..	26,689	38,439	54,874	38,383	65,518	94,369	138,877
Kerosene .. ..	18,343	26,564	32,368	41,732	44,906	63,223	79,800
Fuel oil .. ..	28,079	35,337	50,548	57,137	56,116	74,261	81,081
Heavy oils .. ..	4,894	11,605	21,744	9,846	18,396	25,186	24,721
Paraffin wax and petroleum jelly .. ..	(a)	(a)	1,178	640	1,125	1,273	656
Ozokerite and ceresin .. ..	(a)	(a)	—	1	—	4	1
<b>French Oceania—</b>							
Motor spirit .. ..	1,820	2,680	3,204	3,334	3,718	4,289	6,010
Kerosene .. ..							
Other oils .. ..							
<b>New Caledonia—</b>							
Motor spirit .. ..	958	1,205	1,655	2,295	3,756	6,833	5,314
Kerosene .. ..	1,197	655	490	764	498	1,674	942
Fuel oil .. ..	882	591	869	1,504	1,894	5,361	6,722
Lubricating oil, etc. .. ..	235	281	380	140	163	436	487

(a) Information not available.

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

Producing Country	Estimated Tribasic Phosphate of Lime Content or equivalent.													
	1942	1943	1944	1945	1946	1947	1948	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>														
Seychelles (exports) (b)	21,716	1,791	5,755	6,867	20,726	14,061	21,237	(a)	(a)	(a)	(a)	(a)	(a)	(a)
South West Africa (b)	99	162	—	27	1,638	2,188	1,022	(a)	(a)	—	(a)	(a)	(a)	(a)
Tanganyika Territory	25	263	—	9	217	217	309	(a)	(a)	6	(a)	(a)	(a)	(a)
Uganda	—	—	1,000	8,511	7,099	6,495	—	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Union of South Africa	9	5,709	20,755	26,911	37,096	41,171	39,030	3	1,900	6,800	9,400	13,000	14,400	13,700
Canada	1,129	1,296	430	267	51	—	39,030	937	1,075	360	200	40	—	—
Christmas Island	(c) 8,900	(d) 10,000	(d) —	(d) 6,000	(c) 33,900	(c) 106,600	180,825	7,600	9,000	—	5,000	30,000	91,000	154,000
India	332	1,196	228	324	243	853	1,114	7,270	970	180	400	160	(a)	(a)
Australia	—	—	—	9,197	20	5,317	2,135	7,700	7,000	3,500	5,200	11	3,000	791
Nauru Island	—	—	—	—	(c) 57,650	(c) 174,800	(c) 535,700	—	—	—	—	50,000	150,000	462,000
Ocean Island	—	—	—	—	(c) 29,200	(c) 209,100	(c) 124,850	—	—	—	—	25,000	180,000	107,000
New Zealand	—	—	—	7,956	11,047	200	—	—	—	7,800	3,100	4,300	(a)	(a)
TOTAL	62,000	42,000	54,000	66,000	199,000	561,000	906,000	7,800	8,100	9,400	13,300	5,500	5,100	—
Irish Republic	16,184	16,979	19,662	21,761	11,545	10,610	—	7,800	8,100	9,400	13,300	5,500	5,100	—
<b>FOREIGN COUNTRIES</b>														
Belgium	253,716	421,596	129,623	52,448	68,823	57,128	67,849	84,000	140,000	43,000	17,000	32,000	19,000	32,000
France	111,600	128,950	91,500	74,267	95,749	102,424	89,579	30,000	30,000	23,000	18,000	20,000	21,000	23,000
Germany (d)	1,000	1,000	1,000	500	—	—	—	500	500	500	270	—	—	—
Norway	—	2,232	2,215	1,296	—	—	—	500	500	1,400	800	—	—	—
Poland (d)	10,000	10,000	7,000	5,000	10,000	3,700	—	—	1,300	1,400	800	—	—	—
Spain	14,988	15,474	17,490	20,031	18,318	19,884	22,652	14,000	10,000	11,200	13,000	12,000	13,000	14,800
Sweden	78,203	123,305	158,553	168,424	49,929	7,574	1,418	25,548	75,900	86,400	109,700	35,000	5,200	970
U.S.S.R. (d)	1,000,000	1,000,000	1,000,000	1,600,000	1,600,000	2,000,000	2,300,000	700,000	700,000	700,000	1,070,000	1,060,000	1,320,000	1,500,000

(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.													
	1942	1943	1944	1945	1946	1947	1948	1948	1947	1946	1945	1944	1943	1942
<b>FOREIGN COUNTRIES (Cont.)</b>														
Algeria .. .. .	329,266	75,600	216,870	395,000	575,600	702,517	660,000	660,000	215,000	50,000	140,000	237,000	374,000	422,000
Egypt .. .. .	323,253	310,582	313,160	343,698	289,403	365,363	371,051	371,051	210,000	202,000	203,000	224,000	188,000	241,000
French West Africa .. .. .	—	—	94	—	—	(f) 200	(f)	(f)	—	—	(a)	—	—	—
Morocco (French) .. .. .	704,110	793,438	1,422,082	1,627,995	2,739,675	2,913,966	3,175,300	3,175,300	514,000	590,000	1,066,000	1,180,000	1,970,000	2,342,000
Tunis .. .. .	865,846	329,394	513,997	695,200	1,377,700	1,727,500	1,834,300	1,834,300	528,000	198,000	323,000	438,000	868,000	1,090,000
Netherlands West Indies .. .. .	21,088	7,813	7,813	10,256	77,432	77,978	57,900	57,900	16,000	6,000	6,000	7,800	56,000	60,000
United States .. .. .	4,818,938	5,369,967	5,200,002	5,399,759	7,168,839	9,110,989	9,388,160	9,388,160	3,470,000	3,520,000	3,657,000	3,796,000	5,061,000	6,631,000
Chile .. .. .	24,516	37,325	14,149	12,994	(a)	48,460	58,587	58,587	16,200	25,200	9,300	8,600	(a)	33,400
French Indo-China .. .. .	125,830	83,155	7,040	(a)	(a)	(a)	(d) 20,000	(d) 20,000	100,000	66,000	5,600	(a)	(a)	14,000
China (estimated) .. .. .	80,000	70,000	75,000	(a)	(d) 100,000	(d) 175,000	108,918	108,918	40,000	35,000	37,000	(a)	70,000	75,000
Japanese Islands (c) .. .. .	275,000	198,000	52,000	(a)	(d) 4,024	6,058	(d) 4,000	(d) 4,000	153,000	101,000	26,000	4,000	3,200	4,000
Jordan (b) .. .. .	2,774	5,299	5,644	4,867	(a)	(a)	(a)	(a)	2,000	3,900	4,000	3,200	2,600	4,000
Korea .. .. .	27,000	24,000	33,000	(a)	(a)	(a)	(a)	(a)	13,000	11,500	16,000	(a)	(a)	(a)
Netherlands East Indies .. .. .	2,000	2,000	2,000	2,000	(e)	(e)	(e)	(e)	(a)	(a)	(a)	(a)	(a)	(a)
Angaur Island (b) .. .. .	125,000	96,000	26,000	(a)	(e)	(e)	(e)	(e)	91,000	70,000	20,000	(a)	(e)	(e)
French Oceania .. .. .	172,301	185,411	200,000	255,000	237,300	193,330	184,385	184,385	143,000	150,000	160,000	190,000	190,000	153,000
TOTAL .. .. .	9,346,000	9,329,000	9,544,000	10,700,000	14,430,000	17,500,000	18,350,000	18,350,000	9,346,000	9,329,000	9,544,000	10,700,000	14,430,000	17,500,000
WORLD'S TOTAL .. .. .	9,424,000	9,388,000	9,618,000	10,790,000	14,640,000	18,100,000	19,300,000	19,300,000	9,424,000	9,388,000	9,618,000	10,790,000	14,640,000	18,100,000

(a) Information not available.

(b) Exports.

(c) Excluding Angaur Island during the years 1942 to 1944.

(d) Estimated by International Superphosphate Manufacturers' Association.

(e) Included with "Japanese Islands."

(f) In addition, 640 tons and 3,901 tons of aluminum phosphates were produced during the years 1947 and 1948 respectively.



PRODUCTION OF SUPERPHOSPHATES

(Long tons)

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom .. .. .	778,700	802,400	859,100	906,600	962,200	966,400	1,103,646
Union of South Africa (c) ..	177,141	121,371	208,929	221,430	275,686	288,395	305,992
Canada (c) .. .. .	157,709	172,698	178,389	210,797	205,000	228,922	222,857
India .. .. .	—	—	—	—	—	5,000	21,358
Australia (c) .. .. .	631,318	465,013	543,690	829,453	1,105,304	1,170,489	1,354,560
New Zealand (d) .. .. .	298,127	246,193	361,013	426,826	534,224	553,889	557,653
Irish Republic .. .. .	20,000	50,500	60,800	(b) 82,840	(b) 129,795	(b) 141,648	149,100
<b>FOREIGN COUNTRIES</b>							
Belgium .. .. .	6,257	—	1,200	307,800	448,717	603,107	381,019
Czechoslovakia* .. .. .	(h) 36,708	(h) 1,196	(h) 4,250	390	78,864	199,897	207,926
Denmark .. .. .	—	—	—	62,884	296,533	369,247	413,979
Finland .. .. .	14,837	9,673	447	19,359	111,762	97,404	127,168
France .. .. .	74,237	33,524	5,286	125,005	1,095,761	1,392,116	1,653,000
Germany* .. .. .	45,591	44,331	13,340	15,445	(e) 160,000	(e) 345,000	(e) 500,000
Greece* .. .. .	—	—	—	21,629	73,236	71,758	69,860
Hungary* .. .. .	44,213	23,341	3,406	853	2,136	(e) 16,000	37,283
Italy .. .. .	749,283	62,054	19,116	173,661	(e) 620,000	1,018,765	1,206,000
Netherlands .. .. .	117	—	—	83,175	580,525	623,565	780,458
Norway .. .. .	2,183	2,590	7,034	11,299	18,278	25,456	34,006
Poland .. .. .	(e) 15,000	(e) 15,000	(e) 10,000	(e) 25,000	(f) 156,633	(f) 188,337	(f) 275,215
Portugal .. .. .	265,757	207,379	340,469	289,492	235,564	239,763	298,062
Spain (i) .. .. .	568,745	262,417	275,137	527,503	283,180	351,780	696,913
Sweden .. .. .	116,911	219,914	261,581	297,969	332,388	295,871	383,962
Switzerland .. .. .	28,154	26,305	17,488	12,043	24,297	21,751	20,400
U.S.S.R. (e)* .. .. .	1,000,000	1,000,000	1,000,000	1,600,000	1,600,000	2,000,000	2,300,000
Yugoslavia* .. .. .	—	—	—	(e) 17,000	(e) 40,000	(e) 40,000	(e) 40,000
Canary Islands .. .. .	—	3,829	6,976	10,202	5,088	3,822	9,813
Egypt* .. .. .	11,873	15,435	14,418	15,835	14,972	21,707	37,365
Algeria .. .. .	} 81,789	} 60,786	} 83,192	48,500	50,482	97,669	100,966
Morocco .. .. .				26,430	48,059	52,000	54,000
Tunis .. .. .				8,810	24,428	40,429	31,528
United States*(g) .. .. .	5,312,531	6,314,204	6,644,597	7,289,326	7,769,053	9,209,566	9,424,474
Japan .. .. .	559,000	552,000	110,000	10,830	168,512	697,739	939,476
Turkey .. .. .	—	—	—	5,277	3,744	4,397	5,482
World's Total .. .. .	10,996,000	10,712,000	11,030,000	13,684,000	17,494,000	21,382,000	23,550,000

\* Source : International Superphosphate Manufacturers' Association's "Superphosphate Statistics."

(a) Information not available.

(b) Including phosphate in compounds.

(c) Years ended June 30 of that stated.

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

(e) Estimated.

(f) Including bone meal.

(g) Including Triple superphosphate converted to ordinary superphosphate.

(h) Excluding Sudetenland.

(i) Revised.

PRODUCTION OF BASIC SLAG

(Long tons)

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
Great Britain (b) .. ..	546,909	599,673	522,238	537,685	587,156	538,546	577,215
<b>FOREIGN COUNTRIES</b>							
Belgium .. .. .	(a)	(a)	(a)	100,776	395,194	536,333	(a)
France .. .. .	521,672	629,360	472,469	165,522	578,268	686,490	961,254
Germany ( $P_2O_5$ Content)(c)	421,398	365,652	205,000	(a)	(a)	(a)	(a)
Luxemburg .. ..	(a)	(a)	(a)	61,000	258,000	426,000	550,000
Sweden .. .. .	14,959	14,462	16,438	12,972	12,780	13,324	(a)
Japan .. .. .	81,000	76,000	65,000	(a)	(a)	(a)	(a)

Basic slag has also been produced in Czechoslovakia, Italy, 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	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom—							
Superphosphates ..	51	208	120	10,869	1,436	4,052	18,655
Basic slag ..	—	4	3	196	1,621	1,053	2,043
Seychelles—							
Phosphatic guano ..	21,716	1,791	5,755	6,867	20,726	14,061	21,237
South West Africa—							
Phosphatic guano ..	(a)	(a)	(a)	27	1,638	2,188	1,022
Tanganyika Territory—							
Phosphates ..	—	18	28	—	—	—	—
Canada—							
Phosphatic fertilizer ..	55,315	72,491	121,861	144,016	126,019	145,867	120,249
Christmas Island							
Phosphate-rock ..	(b) 8,900	(c) 10,000	—	(c) 6,000	33,900	106,600	163,498
Palestine—							
Phosphatic fertilizer ..	251	2,953	3,270	4,537	4,347	(a)	(a)
Australia—							
Superphosphates ..	17	12	52	80	202	566	858
New Zealand—							
Superphosphates ..	210	—	3	—	—	—	1
Nauru Island—							
Phosphate-rock ..	—	—	—	—	57,650	174,800	535,700
Ocean-Island—							
Phosphate-rock ..	—	—	—	—	29,200	209,100	124,850
<b>FOREIGN COUNTRIES</b>							
Belgium-Luxemburg E.U.—							
Phosphate-rock ..	43,303	134,164	70,175	4,435	(a)	(a)	33,441
Superphosphates ..	10	20	—	(a)	(a)	(a)	339,470
Di-calcium superphosphate ..	—	—	2	(a)	(a)	(a)	77,000
Basic slag ..	60,421	63,225	33,578	(a)	(a)	618,082	817,718
Czechoslovakia—							
Superphosphates ..	(a)	(a)	(a)	(a)	—	30 (d)	9,994
Denmark—							
Superphosphates ..	—	—	—	—	152	54	12,231
France—							
Phosphate-rock ..	783,586	117,123	33,186	1,156	3,384	2	879
Superphosphates ..	15,099	767	295	298	21,448	36,034	82,128
Basic slag ..	—	285	640	5,804	56,076	65,192	91,919
Germany—							
Phosphate-rock ..	3,237	199	(e) —	} (a)	(a)	(a)	(a)
Superphosphates ..	1,012	437	(e) 162				
Basic slag ..	84,048	97,853	(e) 40,771				
Italy—							
Superphosphates, including bone superphosphates ..	(a)	(a)	(a)	(a)	(a)	995	83,281
Netherlands—							
Superphosphates ..	—	—	(a)	(a)	27,207	207,627	321,927
Basic slag ..	—	—	(a)	(a)	36	—	5
Portugal—							
Superphosphates ..	52	(a)	3	43,688	44,087	1,575	144

(a) Information not available.

(b) January to April 10 only.

(c) Estimated.

(d) January to October only.

(e) January to July only.

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

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
Spain—							
Superphosphates, etc. ..	6,574	6,310	2,410	11,887	87,395	5,944	5,569
Sweden—							
Phosphate-rock .. ..	—	—	1,898	—	308	1,200	1,069
Superphosphates .. ..	—	—	4,921	11,318	2,953	—	—
Switzerland—							
Basic slag .. ..	—	—	—	—	36	5	—
U.S.S.R.—							
Apatite .. ..	} (c)	(c)	(c)	(c)	(c)	(c)	(c)
Other phosphate-rock ..							
Algeria—							
Phosphate-rock .. ..	308,245	18,334	19,195	311,405	501,945	667,894	599,419
Superphosphates .. ..	8,743	3,184	12,518	8,691	8,467	5,192	13,908
Egypt—							
Phosphate-rock .. ..	290,082	205,275	392,110	267,352	307,092	337,589	329,440
Morocco (French)—							
Phosphate-rock .. ..	532,589	877,912	1,349,704	1,431,793	2,338,278	3,125,347	3,081,944
Morocco (Spanish)—							
Superphosphates .. ..	(a)	(a)	85	155	168	40	(a)
Tunis (including re-exports)—							
Phosphate-rock .. ..	994,186	8,199	24,113	566,106	1,650,368	1,616,674	1,858,003
French Indo-China—							
Apatite .. ..	(b) 50,000	(b) 50,000	(b) 50,000	(a)	(a)	(a)	(a)
Netherlands West Indies—							
Phosphate-rock .. ..	20,665	7,783	7,656	8,631	72,431	77,978	57,699
United States—							
Phosphate-rock .. ..	528,720	358,217	439,265	493,591	633,340	753,317	1,141,364
Superphosphates (d) ..	165,092	239,779	183,828	184,961	241,344	232,586	382,840
Angaur Island—							
Phosphate-rock .. ..	125,000	96,000	26,000	(a)	(a)	(a)	(a)
French Oceania—							
Phosphate-rock .. ..	163,002	194,711	200,092	228,064	228,134	205,027	163,512
Japan—							
Superphosphates .. ..	8,851	3,937	—	—	—	109,110	72,899
Jordan—							
Phosphate-rock .. ..	2,774	5,299	5,644	4,867	4,024	6,058	(a)

(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) :—

	1942	1943	1944	1945	1946	1947	1948
United Kingdom .. ..	7,105	21,154	10,071	29,339	—	—	(a)
Belgium .. ..	—	—	—	(a)	(a)	87,359	(a)
France .. ..	—	—	—	(a)	(a)	—	—
Germany .. ..	20,090	—	—	(a)	(a)	(a)	(a)
Netherlands .. ..	—	(a)	(a)	(a)	—	47,954	33,667
Norway .. ..	—	—	—	25,116	15,979	26,866	23,812
Sweden .. ..	—	—	—	7,693	14,742	35,873	53,156
United States .. ..	—	6,114	6,821	—	(a)	—	(a)

(d) Including concentrated superphosphate.

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Phosphate-rock .. ..	287,273	788,785	675,777	642,702	864,035	905,730	983,869
Superphosphates .. ..	73,305	134,115	60,886	70,672	204,203	37,126	91,443
Basic slag .. ..	—	—	—	—	10,152	60,821	97,423
Mauritius—							
Phosphatic guano .. ..	(a)	(a)	(a)	2,067	2,934	2,996	2,575
Superphosphates .. ..	—	—	—	—	—	1,000	12
Southern Rhodesia—							
Superphosphates .. ..	4,437	6,136	11,388	12,486	17,078	14,198	22,427
Union of South Africa (total imports)—							
Phosphate-rock .. ..	113,095	139,003	119,562	190,710	188,380	(a)	(a)
Superphosphates .. ..	—	—	—	—	5,000	(a)	(a)
Basic slag .. ..	—	—	—	—	—	(a)	(a)
Canada—							
Phosphate-rock .. ..	242,297	232,899	346,649	283,656	333,641	433,385	430,365
Superphosphates .. ..	61,377	93,277	90,858	59,740	85,297	126,764	106,592
Basic slag .. ..	6,376	9,768	15,548	21,567	41,001	44,614	49,740
Newfoundland (b)—							
Basic slag .. ..	(a)	(a)	(a)	—	42	6	—
British West Indies—							
Jamaica—							
Phosphatic fertilizers ..	295	149	629	370	546	275	231
St. Vincent—							
Superphosphates .. ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Trinidad and Tobago—							
Phosphate-rock .. ..	—	6	—	—	—	—	—
Superphosphates .. ..	125	—	50	142	1,466	3,742	498
British Guiana—							
Superphosphates, basic slag, etc. .. ..	301	22	(a)	(c) 180	384	(a)	(a)
Ceylon—							
Phosphate-rock .. ..	11,373	12,933	15,902	19,196	17,959	16,842	22,335
Superphosphates .. ..	—	—	—	—	1,211	3,414	108
Basic slag .. ..	—	—	—	—	100	99	433
Cyprus—							
Superphosphates .. ..	(a)	(a)	(a)	(a)	(a)	8,862	14,321
India—							
Superphosphates .. ..	—	148	1,572	901	60	330	350
Ammonium phosphate .. ..	—	—	54,822	1,786	4,504	6,002	4,737
Other phosphates .. ..	—	—	—	1,500	2,505	995	21,844
Malaya—							
Phosphate-rock .. ..	(a)	(a)	(a)	(a)	165	75	—
Phosphatic fertilizers ..	(a)	(a)	(a)	(a)	—	1,001	15,961
Palestine—							
Phosphate-rock .. ..	20	991	5,610	6,530	7,628	3,883	(a)
Australia—							
Phosphate-rock .. ..	202,942	244,451	422,523	575,353	689,098	746,518	755,420
Superphosphates .. ..	10	—	—	—	—	3,965	700
New Zealand—							
Phosphate-rock .. ..	109,504	137,305	162,566	214,788	310,502	281,365	309,902
Phosphatic guano .. ..	(a)	(a)	(a)	46	—	—	8,000
Basic slag .. ..	—	—	—	—	9,930	15,785	13,430
Other phosphates .. ..	26,903	—	29,388	26,557	26,432	71,646	51,380
Irish Republic—							
Phosphate-rock .. ..	—	18,370	27,525	18,240	79,224	73,300	112,746
Superphosphates .. ..	76	68	185	106	11	2,507	19,675
Basic slag .. ..	—	3	55	89	8,587	12,014	23,229

(a) Information not available.

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

(c) Including Sulphate of Potash.

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948			
FOREIGN COUNTRIES										
Austria—										
Phosphate-rock .. ..	(a)	(a)	(a)	(a)	9,547	—	—			
Superphosphate .. ..	(a)	(a)	(a)	(a)	(a)	28,515	40			
Basic slag .. ..	(a)	(a)	(a)	(a)	(a)	3,826	15,668			
Belgium-Luxemburg E.U.—										
Phosphate-rock .. ..	3,263	—	460	(a)	304,194	488,086	398,679			
Superphosphates .. ..	6,083	—	487	(a)	(a)	(a)	2			
Di-calcium superphosphates .. ..	—	—	—	(a)	(a)	(a)	60			
Basic slag .. ..	5,722	55	35	(a)	(a)	(a)	1,554			
Czechoslovakia—										
Phosphate-rock .. ..	} (a)	} (a)	} (a)	} (a)	} { 13,838	} { 65,642	} (b) 52,516			
Superphosphates .. ..								3,974	—	—
Denmark—										
Phosphate-rock .. ..	3,053	—	—	67,693	192,640	208,475	227,971			
Superphosphates .. ..	31	—	—	—	—	—	—			
Basic slag .. ..	7,705	15,124	18,366	—	—	—	—			
Finland (total imports)—										
Phosphate-rock .. ..	7,651	2,015	1,898	27,398	71,351	150,356	177,295			
Superphosphates .. ..	—	197	984	5,390	14,766	57,657	29,722			
Basic slag .. ..	—	—	—	—	2	14,755	—			
France—										
Phosphate-rock .. ..	1,346,801	59,138	37,465	428,975	1,013,742	1,153,345	1,396,256			
Superphosphates .. ..	1,380	79	139	156	78	1	357			
Basic slag .. ..	17,397	65,135	—	23	12,965	438	—			
Germany—										
Phosphate-rock, etc. .. ..	378,722	164,983	(c) 64,968	(a)	259,159	(d) 445,000	(d) 560,013			
Superphosphates .. ..	2,006	19	(c) 574	(a)	(a)	(e)(d) 52,000	(a) 31,495			
Basic slag .. ..	50,070	35,398	(c) 10,036	(a)	(a)	(a)	(d) 31,495			
Greece—										
Phosphate-rock .. ..	(a)	(a)	(a)	(a)	57,778	38,477	55,496			
Hungary—										
Phosphate-rock .. ..	(a)	(a)	(a)	(a)	—	15,413	25,934			
Iceland—										
Superphosphates .. ..	—	1,526	1,448	—	1,072	(a)	(a)			
Italy—										
Phosphate-rock .. ..	} (a)	} (a)	} (a)	} (a)	} { 439,940	} { 581,120	} { 702,584			
Superphosphates, including bone superphosphates .. ..								(a)	21,345	22,899
Netherlands—										
Phosphate-rock .. ..	—	1,836	} (a)	} (a)	} { 335,498	} { 476,152	} { 508,130			
Superphosphates .. ..	—	—						11,251	2,744	9,747
Basic slag .. ..	22,917	32,745						141,533	247,400	231,134
Norway—										
Phosphate-rock .. ..	—	—	—	21,807	16,074	26,866	23,812			
Superphosphates .. ..	—	—	—	20,274	87,037	66,422	71,272			
Basic slag .. ..	2,950	2,809	4,986	—	10,416	4,824	7,801			
Poland—										
Phosphate-rock .. ..	(a)	(a)	(a)	(a)	92,155	131,411	176,675			
Portugal—										
Phosphate-rock .. ..	91,194	58,918	201,052	124,735	247,518	167,726	197,068			
Basic slag .. ..	(a)	(a)	(a)	(a)	4,851	6,312	2,444			
Spain—										
Phosphate-rock .. ..	231,925	49,249	225,505	266,244	153,362	246,350	429,220			
Superphosphates, etc. .. ..	29	3	157	2,761	365	—	20			
Basic slag .. ..	—	—	—	—	—	4,892	—			
Sweden—										
Phosphate-rock .. ..	—	—	8,408	51,183	178,580	186,785	217,015			
Basic slag .. ..	—	—	—	—	1	3,547	2,224			

(a) Information not available.

(b) January to October only.

(c) January to July only.

(d) Bizonal area only.

 (e) P<sub>2</sub> O<sub>5</sub> content.

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Switzerland—							
Phosphate-rock (b) ..	38,000	2,000	3,000	3,000	6,000	41,000	17,327
Superphosphates ..	(a)	(a)	—	1,783	8,132	5,291	6,240
Basic slag .. ..	1	—	34	12,961	106,732	137,057	116,497
Algeria—							
Phosphate-rock .. ..	2,130	3,192	188	1,057	—	1	(a)
Superphosphates ..	269	100	—	—	113	592	1,154
Basic slag .. ..	—	—	—	—	—	507	(a)
Egypt—							
Superphosphates ..	—	276	13	—	—	40,747	8,434
Tunis—							
Superphosphates ..	6,947	2,310	9,062	8,670	8,331	2,715	12,068
Cuba—							
Superphosphates, etc. ..	13,521	13,495	21,418	18,590	(a)	(a)	(a)
United States—							
Phosphate-rock .. ..	3,764	46,505	123,414	141,658	59,734	42,477	48,104
Superphosphates ..	16,659	2,554	1,217	1,773	2,495	6,039	3,229
Basic slag .. ..	1	3	—	—	—	—	29
Ammonium phosphates	25,521	39,274	82,092	82,819	81,351	93,919	96,632
Brazil—							
Phosphate-rock .. ..	—	99	523	1,640	14,309	10,051	4,398
Superphosphates ..	4,047	6,658	5,724	20,378	17,064	44,696	43,548
Chile—							
Superphosphates ..	477	9	9	107	619	(a)	(a)
Colombia—							
Superphosphates ..	(a)	(a)	(a)	(a)	1,598	(a)	(a)
Di-calcium phosphates	(a)	(a)	(a)	(a)	2,110	(a)	(a)
French Indo-China—							
Phosphate-rock .. ..	—	—	—	(a)	(a)	6,053	(a)
Japan (total imports)—							
Phosphate-rock .. ..	(c) 400,000	(c) 280,000	(a)	(a)	193,930	1,116,402	406,433
Superphosphates ..	(a)	(a)	(a)	(a)	(a)	2,644	(a)
Syria and Lebanon—							
Phosphates .. ..	978	1,648	1,731	1,626	803	(a)	(a)
Turkey—							
Phosphate-rock .. ..	(a)	(a)	(a)	(a)	3,050	4,444	3,937

(a) Information not available.

(b) Estimated on imports from producing countries.

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

**PLATINUM**  
**PRODUCTION OF PLATINUM METALS**

(Troy ounces)

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
Sierra Leone—							
Crude platinum ..	—	—	—	19	105	431	109
Union of South Africa—							
Crude ( <i>Pt metals content</i> )	73,797	73,745	22,509	22,884	21,877	23,332	22,549
Concentrates ( <i>Pt metals content</i> ) .. ..							
Osmiridium (crude) (b) ..	7,770	5,993	6,142	6,259	6,100	6,071	5,520
Canada—							
Crude platinum ( <i>Pt content</i> ) .. ..	40	7	—	—	—	(a)	(a)
Recovered from Ontario nickel-copper ores (c)—							
Platinum .. ..	285,188	219,706	157,523	208,234	121,771	94,570	121,404
Other platinum metals	222,573	126,004	42,929	458,674	117,566	110,332	148,343
Australia—							
New South Wales—							
Crude platinum ..	2	3	2	2	—	—	—
Tasmania—							
Osmiridium .. ..	142	90	107	109	95	99	92
New Zealand—							
Crude platinum ..	21	5	—	—	14	—	—
<b>FOREIGN COUNTRIES</b>							
Finland—							
Platinum and palladium	(a)	(a)	(a)	(a)	(a)	(a)	39
U.S.S.R.—							
Crude platinum (d) ..	110,000	125,000	150,000	150,000	175,000	150,000	125,000
Belgian Congo—							
Palladium .. ..	—	—	—	—	—	—	209
Platinum .. ..	—	—	—	—	—	—	—
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):—

	1942	1943	1944	1945	1946	1947	1948
Osmium .. ..	(a)	(a)	2,012	1,976	1,970	1,859	1,679
Iridium .. ..	(a)	(a)	1,816	1,768	1,691	1,677	1,483
Ruthenium ..	(a)	(a)	888	881	876	826	717
Platinum .. ..	(a)	(a)	795	847	853	785	671
Rhodium .. ..	(a)	(a)	47	49	47	42	37

(c) 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.

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



PRODUCTION OF PLATINUM METALS (Cont.)

Producing Country	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
United States (b)—							
Crude platinum ..	23,213	27,162	33,625	26,551	22,949	13,836	13,741
Ore (Pt metals content) ..	26	—	—	—	—	—	—
New platinum metals recovered by refineries from gold and copper ores of domestic origin—							
Platinum .. ..	4,333	5,205	3,286	1,068	555	1,098	1,251
Palladium .. ..	5,432	5,105	3,575	3,396	2,735	3,471	4,261
Iridium, osmiridium, etc. .. ..	40	80	63	31	73	1	—
Colombia—							
Crude platinum .. ..	43,103	34,564	34,304	34,758	43,835	43,035	40,047
Bolivia—							
Platinum .. ..	(a)	(a)	(a)	(a)	253	—	—
WORLD'S TOTAL (c)	779,000	626,000	515,000	998,000	567,000	505,000	532,000

(a) Information not available.

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

	1942	1943	1944	1945	1946	1947	1948
Platinum .. ..	56,150	68,613	85,942	58,942	40,385	54,190	58,527
Palladium .. ..	16,416	23,616	29,684	32,968	27,856	27,492	28,418
Iridium .. ..	1,552	2,771	965	812	2,002	2,089	2,214
Other platinum metals	2,493	6,581	2,805	3,400	2,394	3,317	4,742

(c) Estimated.

EXPORTS OF PLATINUM\*

(Domestic Produce)

(Troy ounces)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Platinum—							
Ingots, grain and powder	—	6,000	—	3,078	17,504	17,306	57,476
Other kinds, including alloys .. ..	43	175	100	1,623	33,939	30,790	25,939
Other platinum metals and alloys .. ..	6,200	8,050	1,994	119,477	21,273	9,440	(a)
Sierra Leone—							
Unrefined platinum ..	—	—	—	8	59	319	104
Union of South Africa—							
Osmiridium .. ..	7,016	5,975	6,357	6,341	6,142	} 56,288	64,579
Platinum .. ..	62,798	47,964	81,644	56,729	61,310		
Canada—							
Concentrates, etc. (b) ..	(£2,209,242)	(£1,734,189)	(£1,521,177)	(£2,988,238)	(£3,634,264)	(£2,893,008)	(£4,162,961)
Scrap .. ..	363	586	204	407	933	325	537
Australia—							
Platinum and Platinum group .. ..	23	9	—	—	159	402	44
New Zealand—							
Platinum, etc. (jewellers' sweepings) .. ..	45	70	30	29	31	11	339
FOREIGN COUNTRIES							
Czechoslovakia—							
Unwrought platinum and scrap .. ..	(a)	(a)	(a)	(a)	237	96	—
Denmark—							
Rods, sheets, wire, scrap, etc. .. ..	386	418	2,600	—	96	547	547
France—							
Unwrought platinum and scrap .. ..	—	30	(a)	—	611	1,350	675
Drawn or rolled platinum	160	30	(a)	225	257	129	32
Germany—							
Platinum metals and alloys	3,736	736	(c) 106	(a)	(a)	(a)	(a)
Italy—							
Sheets, bars, dust, scrap, etc. .. ..	32	—	(a)	(a)	—	—	—
Netherlands—							
Unwrought platinum ..	354	579	(a)	(a)	482	2,604	4,533
Portugal—							
Bars .. ..	386	—	—	—	64	—	—
Sweden—							
Unwrought platinum ..	900	289	675	418	386	354	611
Switzerland—							
Unwrought platinum ..	—	—	—	32	—	643	707

\* 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	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
U.S.S.R. .. .. .	(b)	(b)	(b)	(b)	(b)	(b)	(b)
Cuba—							
Platinum .. ..	(a)	(a)	32	418	(a)	(a)	(a)
Palladium .. ..	(a)	(a)	64	193	(a)	(a)	(a)
United States—							
Ores, etc. .. ..	159	84	(a)	—	134	42	5
Ingots, sheets, wire, etc.	3,354	860	1,243	7,781	15,468	17,766	15,471
Palladium, rhodium, etc., and alloys .. ..	99,107	521	5,014	10,951	4,294	7,783	20,994
Colombia—							
Platinum .. ..	49,162	39,959	36,137	30,883	43,854	38,715	40,047

(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) :—

	1942	1943	1944	1945	1946	1947	1948
United Kingdom ..	9,645	—	—	—	13,493	7,829	(a)
France .. .. .	—	—	—	(a)	(a)	(a)	(a)
Germany .. .. .	—	—	—	(a)	(a)	(a)	(a)
United States ..	3,226	41,272	75,322	77,741	106,851	92,955	66,422

## IMPORTS OF PLATINUM\*

(Less Re-exports)

(Troy ounces)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948	
BRITISH COUNTRIES								
United Kingdom (b)—								
Ingots, grain and powder	9,895	181	—	363	14,936	12,790	2,926	
Other kinds, including alloys .. .. .	1,989	1,872	1,382	1,294	2,439	1,271	412	
Palladium, etc .. .. .	(c) 700	(c) 32	—	150	1,646	3,054	(c) 796	
Canada—								
Bars, sheets, wire, etc. ..	(£141,013)	(£95,679)	(£13,931)	(£912,664)	(£2,031,358)	(£1,869,090)	(£2,664,532)	
Palestine—								
Platinum .. .. .	(£7,094)	(£4,409)	(£269)	(£8,267)	(£56,860)	(a)	(a)	
Palladium .. .. .	(£2,704)	(£7,382)	(£6,386)	(£12,460)	(£24,139)	(a)	(a)	
Australia—								
Bars, rods, plates, etc. ..	(d) 2,781	(d) 1,620	(d) 1,536	(d) 484	52,740	7,015	544	
New Zealand—								
Bars, sheets, wire, etc. ..	813	219	461	187	1,022	1,513	2,158	
FOREIGN COUNTRIES								
Austria—								
Ingots, sheets, wire, etc.	(a)	(a)	(a)	(a)	(a)	90	1,415	
Czechoslovakia—								
Unwrought platinum and scrap .. .. .	}	(a)	(a)	(a)	{	—	675 (e)	642
Bars, plates, sheets and wire .. .. .						—	225 (e)	1,445
Denmark—								
Rods, sheets, wire and scrap .. .. .	32	—	—	96	804	289	1,832	
Finland (total imports)—								
Unwrought platinum ..	—	(f) 5,738	—	19	167	84	138	
France—								
Unwrought platinum and scrap .. .. .	100	—	(a)	12,314	11,446	3,183	139	
Drawn or rolled platinum	—	—	(a)	—	932	643	—	
Germany—								
Platinum metals and alloys	7,600	3,643	(h) 231	(a)	(a)	(a)	(a)	
Italy—								
Bars, dust and scrap ..	1,319	(g) 289	—	—	64	75	280	
Sheets and foil and wire	—	—	—	—	64	32	5	
Netherlands—								
Unwrought platinum ..	932	1,479	(a)	(a)	1,640	2,476	2,861	
Norway—								
Sheets, rolled and wire	2	62	445	257	403	1,459	2,855	
Portugal—								
Sheets, wire, etc. ..	(a)	(a)	(a)	27	144	385	(a)	
Palladium .. .. .	(a)	(a)	(a)	—	804	739	(e)	
Spain—								
Bars, sheets, wire etc. ..	3	3	10	—	180	225	10	

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

(a) Information not available.

(b) Imports of ores and concentrates containing platinum are not separately recorded. The values of platinum and platinum metals contained in concentrates and other forms exported from Canada to the United Kingdom were as follows:—1942—£180,391; 1943—Nil; 1944—£206,867; 1945—£1,213,179; 1946—£2,058,786; 1947—£1,793,731; 1948—£2,768,196.

(c) Excess of re-exports.

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

(e) January to October only.

(f) Probably scrap.

(g) January to June only.

(h) January to July only.

## IMPORTS OF PLATINUM (Cont.)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
Sweden—							
Unwrought platinum ..	163	109	20	535	640	765	407
Switzerland—							
Unwrought platinum ..	160	30	100	547	450	1,222	322
Egypt—							
Ingots, bars, sheets, etc.	25	207	1	1,772	7,592	1,374	316
Mexico—							
Ingots and bars .. ..	15	—	—	164	763	(a)	(a)
Sheets and wire .. ..	65	39	187	947	2,616	(a)	(a)
United States—							
Ore (b) .. .. .	181,271	92,709	101,747	138,089	26,710	4,486	1,943
Grains and nuggets (b)	82,105	98,401	35,345	33,875	49,235	51,116	28,263
Sponge and scrap (b) ..	—	72,785	65	2,368	51,802	50,980	68,907
Ingots, bars, sheets (b) ..	32,254	41,272	70,150	70,849	67,730	55,929	40,295
Iridium .. .. .	884	1,056	3,075	6,197	11,602	5,011	5,472
Osmium and osmiridium	751	1,236	1,380	982	3,445	2,588	1,995
Palladium .. .. .	9,984	43,874	137,496	118,267	182,055	133,962	119,949
Rhodium and ruthenium	7,753	10,920	6,954	13,028	9,419	5,749	7,693
Argentina—							
Platinum .. .. .	937	61	31	922	5,496	(a)	(a)
Brazil (total imports)—							
Ingots, sheets and wire	380	69	135	734	1,455	—	(a)
Chile—							
Ingots, bars, scrap, etc.	312	31	60	233	613	(a)	(a)
Uruguay—							
Ingots .. .. .	(a)	(a)	} 518	(a)	(a)	(a)	(a)
Palladium .. .. .	(a)	(a)					
Syria and Lebanon—							
Unwrought platinum	—	—	45	379	843	(a)	(a)
Turkey—							
Sheets .. .. .	(a)	(a)	—	161	—	—	64

(a) Information not available.

(b) Platinum content.



PRODUCTION OF POTASH (Cont.)

Producing Country and Description	K <sub>2</sub> O Content or equivalent						
	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES(Cont.)</b>							
Spain—							
Carnallite, sylvinitic, etc.	407,264	432,713	665,134	699,275	780,791	612,327	977,064
Eritrea—	(a)	(a)	(a)	(a)	(a)	(a)	115
United States—							
Muriate (chloride)—							
60-62% K <sub>2</sub> O	784,819	834,787	966,189	1,123,511	1,117,043	1,244,823	1,360,658
48-50% K <sub>2</sub> O	76,500	88,515	102,277	105,069	109,158	111,714	130,067
Fertilizer salts	163,753	216,240	194,250	103,391	87,797	155,487	232,446
Sulphate (b)	106,584	136,208	146,657	86,159	192,908	189,562	186,198
Chile—							
Chloride	(a)	(a)	(a)	(a)	(a)	(a)	(a)
China—							
Nitrate	2,893	3,000	1,705	(a)	(a)	(a)	(a)
Korea (Southern)—							
Alunite (impure)	34,350	21,148	18,120	—	—	—	—
TOTAL (d)	3,300,000	3,200,000	3,100,000	2,100,000	2,500,000	2,990,000	3,600,000
World's TOTAL (d)	3,350,000	3,250,000	3,150,000	2,150,000	2,650,000	3,054,000	3,609,000

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

(a) Information not available.

(b) Including sulphate of potash-magnesia.

(c) Including some 93-96% KCl.

(d) Estimated.

EXPORTS OF POTASH SALTS

(Domestic Produce)

(Long tons)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948			
<b>BRITISH COUNTRIES</b>										
United Kingdom—										
Fertilizer salts .. ..	—	—	—	—	1	1	—			
Chromate and bichromate	104	63	133	238	460	24	424			
Nitrate .. .. .	600	273	264	546	2,752	2,133	2,854			
Sulphate .. .. .	4	2	2	6	35	86	25			
Other compounds .. ..	549	652	644	950	2,392	2,232	1,511			
Hong Kong (re-exports)—										
Nitrate .. .. .	(a)	(a)	(a)	(a)	120	2,275	(a)			
Chlorate .. .. .					630	1,529	1,927			
India—										
Nitrate .. .. .	4,518	2,061	1,223	143	1,135	816	36			
Malaya (including re-exports)—										
Fertilizer salts .. ..	(a)	(a)	(a)	(a)	3	8	91			
Nitrate .. .. .	(a)	(a)	(a)	(a)	—	5	1			
Palestine—										
Fertilizer salts .. ..	1,181	989	1,090	5,100	201	(a)	(a)			
Chloride .. .. .	90,230	101,492	95,820	88,260	67,315	117,888	14,548			
Chlorate .. .. .	9	35	30	36	3	(a)	(a)			
<b>FOREIGN COUNTRIES</b>										
Belgium-Luxemburg E.U.—										
Fertilizer salts .. ..	—	—	—	(a)	(a)	(a)	46,094			
Carbonate .. .. .	89	229	148							
Caustic potash .. ..	—	23	—							
Chloride .. .. .	—	98	366							
Chlorates .. .. .	—	—	—							
Chromates, including those of sodium .. ..	5	37	—							
Nitrate .. .. .	—	—	—							
Sulphate .. .. .	—	—	—	92,828						
Czechoslovakia—										
Carbonate .. .. .	(a)	(a)	(a)	(a)	33	1 (c)	40			
Manganate and permanganate, including those of sodium .. .. .	(a)	(a)	(a)	(a)	411	100 (c)	77			
Finland—										
Chlorate .. .. .	15	1	—	—	—	689	953			
France—										
Sylvinite, etc. .. ..	49,499	675	174	123,378	539,694	326,953	379,272			
Chloride .. .. .				28,179	363,184	360,215	(e) 246,635			
Carbonate .. .. .				50	10	—	4	3,478	6,831	5,362
Caustic potash .. ..				384	226	40	835	3,228	7,555	2,932
Nitrate .. .. .				70	—	—	46	1,144	4,310	3,165
Permanganate .. .. .				37	31	51	—	104	174	224
Sulphate .. .. .				620	—	—	1,170	20,343	43,491	(f)
Germany—										
Fertilizer salts .. ..	970,321	1,047,025	(b) 399,684	(a)	(a)	(d) 22,000	(a)			
Carbonate and wool grease ash .. .. .	6,152	5,733	(b) 3,593							
Caustic potash .. ..	7,083	6,629	(b) 7,894							

(a) Information not available

(d) K<sub>2</sub>O content

(b) January to July only.

(e) Including sulphate.

(c) January to October only.

(f) Included with chloride.



## EXPORTS OF POTASH SALTS (Cont.)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948	
FOREIGN COUNTRIES (Cont.)								
Germany (Cont.)—								
Chlorate .. ..	1,730	1,817	(b) 756	} (a)	(a)	(a)	(a)	
Manganates .. ..	205	36	(b) 28					
Nitrate .. ..	9,024	9,133	(b) 3,158					
Sulphates and chloride	212,418	412,389	(b) 562,290					
Netherlands—								
Caustic potash .. ..	21	1	} (a)	(a)	{	1	3	
Chloride .. ..	1,121	206						
Nitrate .. ..	77	—						
Sulphate .. ..	201	98						
Spain—								
Fertilizer salts .. ..	73,539	57,795	143,976	124,470	146,726	193,462	205,827	
Chlorate .. ..	16	35	17	17	16	52	43	
Sweden—								
Carbonate .. ..	1	1	3	4	18	25	—	
Caustic potash .. ..	177	90	37	368	493	999	1,579	
Switzerland—								
Nitrate (crude) .. ..	4,412	4,432	1,013	41	271	298	14,172	
United States—								
Chloride .. ..	32,550	72,874	77,619	76,200	} (a)	{	76,587	75,214
Sulphate .. ..	6,815	8,761	8,517	8,055				
Other fertilizer salts	35,993	17,963	12,129	9,215				
Chromates .. ..	1,154	1,055	554	665				
Caustic potash .. ..	3,084	8,763	5,973	7,468				
Carbonates, etc. .. ..	1,954	724	1,222	2,559				
Chlorates, etc. .. ..	1,327	1,734	1,477	1,439				
Nitrates, etc. .. ..	3,043	3,661	2,957	3,363				
Other compounds .. ..	1,251	1,837	1,339	1,125				
Chile—								
Chloride .. ..	1,379	42	281	2,283	2,590	(a)	(a)	
Nitrate .. ..	215	4,976	3,217	715	701	(a)	(a)	
Chlorate .. ..	—	—	276	155	101	(a)	(a)	

(a) Information not available.

(b) January to July only.

IMPORTS OF POTASH SALTS

(Less Re-exports)

(Long tons)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Fertilizer salts .. ..	1,250	—	—	—	—	—	—
Carbonate .. ..	1,052	45	—	—	148	215	354
Caustic potash and lyes .. ..	87	4,719	3,768	2,471	1,835	834	1,213
Chlorate .. ..	64	—	18	3	265	532	607
Chloride .. ..	109,238	144,273	213,832	164,685	223,481	315,675	438,036
Nitrate .. ..	2,325	1,464	963	(c) 5	297	110	25
Sulphate .. ..	(c) 3	40	—	—	2,964	17,315	18,209
Other Compounds .. ..	69	137	433	47	277	531	142
Mauritius—							
Nitrate .. ..	210	102	2,500	—	500	—	1,976
Northern Rhodesia—							
Compounds .. ..	251	657	259	91	52	62	(a)
Southern Rhodesia—							
Compounds .. ..	24	44	108	52	35	56	65
Union of South Africa (b)—							
Fertilizer salts .. ..	7,988	3,334	—	4,696	3,404	(a)	(a)
Nitrate .. ..	2	—	—	—	1	(a)	(a)
Caustic potash .. ..	16	74	114	159	220	(a)	(a)
Other compounds .. ..	1,190	724	403	377	563	(a)	(a)
Canada—							
Kainite .. ..	27,004	18,888	15,689	10,328	6,611	7,141	7,634
Caustic potash .. ..	1,106	1,189	1,107	1,178	1,951	2,335	3,156
Chlorate .. ..	—	—	4	1	147	40	24
Chloride .. ..	36,818	46,436	59,014	62,693	69,863	86,366	92,150
Nitrate .. ..	760	847	970	655	366	261	355
Crude sulphate .. ..	3,925	3,938	3,901	3,522	3,809	2,596	4,634
Other compounds .. ..	583	997	676	809	765	772	687
British West Indies—							
Barbados—							
Fertilizer salts .. ..	870	1,627	4,571	332	2,783	5,167	3,250
Jamaica—							
Fertilizer salts .. ..	—	—	597	508	342	406	1,305
St. Vincent—							
Chloride .. ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Sulphate .. ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Trinidad and Tobago—							
Sulphate .. ..	—	—	—	271	160	1,062	960
Ceylon—							
Chlorides .. ..	3,609	3,001	2,860	3,893	6,740	7,484	5,540
Nitrate of potash refuse .. ..	110	—	—	—	—	—	—
Sulphate .. ..	—	—	—	—	10	38	675
Hong Kong (total imports)—							
Nitrate .. ..	(a)	(a)	(a)	(a)	202	446	(a)
Chlorate .. ..	(a)	(a)	(a)	(a)	1,560	3,526	1,571
India—							
Bichromate .. ..	5	—	22	7	—	50	3
Chlorate .. ..	411	121	10	185	12	435	930
Chloride .. ..	696	1,008	20	1,530	1,108	2,933	1,528
Other compounds .. ..	276	203	430	558	800	889	2,288
Malaya (total imports)—							
Fertilizer salts .. ..	(a)	(a)	(a)	(a)	136	3,815	280
Nitrate .. ..	(a)	(a)	(a)	(a)	53	4	—
Palestine—							
Chlorate .. ..	5	—	—	—	20	(a)	(a)

(a) Information not available.

(b) Total imports.

(c) Excess of re-exports.

## IMPORTS OF POTASH SALTS (Cont.)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES (Cont.)</b>							
Australia—							
Bichromate .. ..	79	22	74	125	61	5	37
Carbonate .. ..	598	115	105	229	831	494	665
Caustic potash .. ..	686	75	333	196	660	686	1,503
Chlorate .. ..	179	106	146	130	—	104	3
Cyanides, including sodium cyanides ..	1,360	807	1,758	960	201	239	77
Nitrate .. ..	578	332	91	95	124	139	35
Other compounds ..	263	122	104	492	131	953	271
New Zealand—							
Caustic potash and pearl-ash .. ..	17	43	55	39	5	70	146
Chlorate .. ..	88	27	58	55	28	40	32
Chloride .. ..	2,001	1,496	1,211	5,558	3,661	7,941	2,146
Nitrate .. ..	47	21	5	2	1	22	11
Sulphate .. ..	3	494	224	215	223	645	550
Other fertilizer salts ..	39	128	83	17	36	17	4
Compounds other than fertilizer (£/N.Z.) ..	(£17,354)	(£31,271)	(£17,147)	(£8,345)	(£9,096)	(£16,968)	(a)
Irish Republic—							
Kainite .. ..	—	1	1	—	—	1	2,668
Fertilizer salts (20-30% K <sub>2</sub> O)							
Chlorate .. ..	35	48	52	52	21	45	1,367
Chloride .. ..	961	1,300	1,324	1,541	2,662	13,414	11,490
Nitrate .. ..	121	4	56	55	46	55	40
Sulphate .. ..	—	8	—	—	—	370	421
Other compounds ..	18	79	12	33	35	43	87
<b>FOREIGN COUNTRIES</b>							
Austria—							
Fertilizer salts .. ..	(a)	(a)	(a)	(a)	(a)	8,135	7,941
Caustic potash .. ..						37	116
Carbonate .. ..						64	138
Chlorates .. ..						113	241
Chromates .. ..						33	225
Nitrates .. ..						37	41
Belgium-Luxemburg E.U.—							
Fertilizer salts .. ..	87,850	38,650	16,944	19,715	(a)	(a)	253,135
Carbonate .. ..	1,198	308	1,537	}	(a)	(a)	1,131
Caustic potash .. ..	410	972	1,900				1,323
Chlorates .. ..	412	322	182				2,049
Chloride .. ..	141,323	174,747	158,154				304,640
Chromates, including those of sodium ..	10	4	6				250
Manganate and permanganate .. ..	14	1	—				59
Nitrate .. ..	33	40	176	41			
Sulphate .. ..	8,196	5,756	6,802	4,168			
Bulgaria—							
Carbonate .. ..	5	5	2	14	55	(a)	(a)
Caustic potash .. ..	320	254	49	42	13		
Chloride .. ..	90	75	50	41	216		
Chromates .. ..	17	32	57	—	19		
Nitrate .. ..	169	123	20	103	118		
Czechoslovakia—							
Kainite .. ..	(a)	(a)	(a)	(a)	20	—	(b) —
Fertilizer salts (38-44% K <sub>2</sub> O) .. ..					86,157	100,146	(b) 80,770
Fertilizer salts (other) ..					4,921	—	(b) —
Carbonate and nitrate ..					—	690	(b) 515
Chloride .. ..					—	13,759	(b) 10,837
Sulphate .. ..					2,953	—	(b) —

(a) Information not available.

(b) January to October only.

## IMPORTS OF POTASH SALTS (Cont.)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
<b>Denmark—</b>							
Kainite .. .. .	10,185	55,534	25,919	2,160	—	—	—
Fertilizer salts .. .. .	116,074	114,731	145,188	26,398	65,290	207,374	150,203
Carbonate .. .. .	255	312	369	35	311	138	456
Caustic potash .. .. .	164	748	1,546	253	919	605	1,161
Chlorate .. .. .	141	200	119	78	99	80	139
Chloride .. .. .	746	1,008	378	—	533	82	921
Chromates .. .. .	12	35	139	52	46	—	45
Nitrate .. .. .	316	321	302	12	462	380	335
Sulphate .. .. .	3	8	6	—	1	4	2
<b>Finland (total imports)—</b>							
Fertilizer salts .. .. .	69,500	67,729	52,274	4,898	36,106	73,791	82,373
Carbonate .. .. .	118	160	100	17	103	139	186
Caustic potash .. .. .	52	56	53	39	65	31	62
Chloride .. .. .	788	788	10	295	758	1,461	591
Chromates .. .. .	17	32	84	2	150	150	68
Nitrate .. .. .	262	36	14	—	17	33	37
<b>France—</b>							
Carbonate .. .. .	12	6	2	4	22	—	—
Caustic potash .. .. .	17	26	9	33	7	15	15
Chlorate .. .. .	16	11	(a)	—	—	—	—
Chloride .. .. .	30,744	2,371	—	—	—	—	1
Sulphate .. .. .	4,882	5,207	74	1,170	—	—	—
<b>Germany—</b>							
Fertilizer salts .. .. .	—	712	—	—	—	—	—
Carbonate and wool grease ash .. .. .	—	208	(b) —	—	—	—	—
Caustic potash .. .. .	1,255	61	(b) 24	(a)	(a)	(a)	(a)
Chlorate .. .. .	—	—	(b) —	—	—	—	—
Manganates .. .. .	55	10	(b) 32	—	—	—	—
Nitrate .. .. .	2	—	(b) —	—	—	—	—
<b>Greece—</b>							
Carbonate .. .. .	(a)	(a)	(a)	263	8	146	(a)
Caustic potash .. .. .	(a)	(a)	(a)	102	20	13	(a)
<b>Iceland—</b>							
Fertilizer salts .. .. .	197	232	202	246	450	(a)	(a)
Carbonate .. .. .	45	40	14	13	8	(a)	(a)
Caustic potash .. .. .	30	15	—	22	29	(a)	(a)
<b>Italy—</b>							
Fertilizer salts .. .. .	(a)	(a)	(a)	(a)	(a)	18,098	26,741
Carbonate .. .. .	(a)	(a)	(a)	(a)	(a)	1,216	683
Caustic potash .. .. .	(a)	(a)	(a)	(a)	(a)	1,346	2,072
<b>Netherlands—</b>							
Kainite .. .. .	497	591	—	—	—	—	62,622
Fertilizer salts (20% K <sub>2</sub> O)	92,586	54,857	—	—	30,829	42,699	22,482
do. (40% K <sub>2</sub> O)	139,996	271,907	—	—	98,429	162,614	181,379
do. (50% K <sub>2</sub> O)	31,809	41,256	—	—	22,673	1,614	2,036
Caustic potash .. .. .	183	253	(a)	(a)	590	649	6,129
Chloride .. .. .	2,072	2,269	—	—	7,281	11,851	24,762
Nitrate .. .. .	5,443	275	—	—	156	198	220
Sulphate .. .. .	1,409	1,796	—	—	3,228	13,429	31,907
Patent potash .. .. .	74,034	32,961	—	—	—	—	1,716
<b>Norway—</b>							
Fertilizer salts .. .. .	44,937	62,986	72,437	2,282	52,150	55,991	83,492
Carbonate .. .. .	275	269	266	343	353	291	396
Caustic potash and lyes	208	601	1,448	400	704	979	1,406
Chloride .. .. .	1,503	211	26	10	7,251	3,569	8,403
Nitrate .. .. .	77	53	37	210	122	115	93
<b>Portugal—</b>							
Carbonate .. .. .	22	6	5	14	53	111	51
Caustic potash .. .. .	38	37	3	2	47	44	70
Chlorate .. .. .	145	248	133	177	171	231	240
Chloride .. .. .	15,989	9,112	12,627	20,488	9,858	11,850	4,639

(a) Information not available.

(b) January to July only.

## IMPORTS OF POTASH SALTS (Cont.)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
<b>Portugal (Cont.)—</b>							
Chromate .. ..	11	12	16	6	140	28	3
Nitrate .. .. .	152	79	50	278	198	249	122
Sulphate .. .. .	—	10	—	—	—	—	—
<b>Sweden—</b>							
Fertilizer salts (20% K <sub>2</sub> O)	—	—	1,085	—	10	—	—
do. (40% K <sub>2</sub> O)	71,966	58,235	70,155	1,821	93,274	130,075	102,966
do. (other) .. .	13,832	48,687	24,315	—	17,945	197	156
Carbonate .. ..	1,233	2,080	1,897	238	804	1,052	1,065
Caustic potash ..	232	347	591	247	857	510	346
Chloride .. .. .	974	2,137	2,181	—	7,087	16,631	13,958
Nitrate .. .. .	531	317	288	108	592	412	223
<b>Switzerland—</b>							
Fertilizer salts ..	54,372	103,604	67,411	52,811	42,365	46,013	44,617
Carbonate .. .. .	360	454	324	88	746	649	628
Caustic potash ..	1,332	1,255	1,048	599	1,435	2,395	2,234
Chloride .. .. .	964	1,447	441	433	2,150	2,566	2,721
Nitrate, crude ..	—	—	—	—	49	—	—
Nitrate, purified, including sodium nitrate ..	942	184	94	39	707	737	878
<b>Algeria—</b>							
Fertilizer salts ..	38,702	—	—	7,314	22,666	21,489	31,481
Carbonate .. .. .	6	—	—	2	50	—	(a)
Caustic potash ..	38	11	11	61	45	40	68
Nitrate .. .. .	20	—	—	12	20	15	100
Sulphate .. .. .	431	—	—	—	3,495	9,058	(a)
<b>Egypt—</b>							
Fertilizer salts ..	—	200	503	—	—	—	1
Carbonate .. .. .	8	2	8	2	83	37	113
Caustic potash ..	403	2	52	146	59	144	87
Chlorate .. .. .	37	46	116	93	124	77	166
Chromates, including those of sodium ..	323	232	139	193	632	600	572
Manganates .. ..	6	6	13	8	26	23	40
<b>Madagascar—</b>							
Fertilizer salts ..	(a)	(a)	(a)	(a)	611	373	530
Caustic potash ..	(a)	(a)	(a)	1	5	1	24
<b>Mozambique—</b>							
Carbonate .. .. .	—	8	—	—	15	15	—
<b>Tunis—</b>							
Carbonate .. .. .	4	—	—	4	1	3	5
Caustic potash ..	23	—	4	—	16	—	3
Chlorate .. .. .	10	—	—	8	1	1	53
Chloride .. .. .	3,487	—	—	37	2,121	632	1,979
Nitrate .. .. .	9	—	5	1	6	12	16
Sulphate .. .. .	—	—	—	1	492	251	1,476
<b>Cuba—</b>							
Nitrate, including nitrate of soda .. .. .	12,208	632	2,416	22,190	(a)	(a)	(a)
Chlorate .. .. .	45	108	75	86	(a)	(a)	(a)
Other salts .. ..	2,927	170	32	78	(a)	(a)	(a)
<b>Mexico—</b>							
Nitrate .. .. .	(b) 7,692	(b) 18,052	(b) 12,567	15,694	11,236	(a)	(a)
Caustic potash ..	390	303	187	369	3,015	(a)	(a)
Chlorate .. .. .	402	431	407	712	830	(a)	(a)
Carbonate .. .. .	26,653	25,096	37,224	35,568	24,693	(a)	(a)
Sulphate .. .. .	3	—	1	2	2	(a)	(a)
<b>United States—</b>							
Fertilizer salts ..	—	—	—	—	(a)	71	476
Carbonate .. .. .	—	—	—	—	2	8	3

(a) Information not available.

(b) Including nitrate of soda.

## IMPORTS OF POTASH SALTS (Cont.)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
<b>United States (Cont.)—</b>							
Caustic potash .. ..	—	—	—	18	40	22	81
Chlorates .. ..	32	60	54	333	469	179	28
Chloride .. ..	1,396	18,073	1,017	6,126	3,082	31,504	35,017
Cyanide .. ..	—	—	—	—	(a)	20	22
Nitrate .. ..	—	—	—	—	(a)	23	(a)
Potassium-sodium nitrate mixtures .. ..	12,743	17,667	8,399	—	3,929	2,232	(a)
Sulphate .. ..	—	—	—	—	(a)	8,956	10,540
<b>Argentina—</b>							
Bichromate .. ..	233	72	8	2	87	(a)	(a)
Carbonate .. ..	125	15	—	—	134		
Caustic potash .. ..	474	73	139	167	570		
Chlorate .. ..	204	—	—	374	273		
Cyanide .. ..	7	9	2	17	28		
Nitrate .. ..	248	87	168	757	124		
Sulphate .. ..	—	—	—	—	—		
<b>Brazil (total imports)—</b>							
Caustic potash .. ..	69	192	194	91	217	881	(a)
Nitrate of potash .. ..	828	828	1,375	976	702	906	(a)
Chloride .. ..	1,629	3,575	2,147	3,266	3,655	16,466	(a)
Sulphate .. ..	—	—	270	132	441	1,396	(a)
<b>Chile—</b>							
Bichromate .. ..	42	64	10	10	86	(a)	(a)
Carbonate .. ..	47	9	15	17	46	(a)	(a)
Caustic potash .. ..	21	40	34	31	61	(a)	(a)
Chlorate .. ..	(a)	31	212	108	81	(a)	(a)
Nitrate .. ..	1	—	1	—	—	(a)	(a)
<b>Colombia—</b>							
Carbonate .. ..	26	28	(a)	8	4	(a)	(a)
Caustic potash .. ..	3	13	(a)	13	19		
Chlorate .. ..	73	51	56	134	259		
Nitrate .. ..	63	143	197	79	249		
Sulphate .. ..	295	204	(a)	—	57		
<b>Peru—</b>							
Caustic potash .. ..	5	5	5	19	8	(a)	(a)
Other salts .. ..	235	285	349	303	355	(a)	(a)
<b>Uruguay—</b>							
Nitrate .. ..	(a)	27	31	(a)	(a)	(a)	(a)
Caustic potash .. ..	(a)	38	11	(a)	(a)	(a)	(a)
<b>Venezuela—</b>							
Carbonate .. ..	2	11	(a)	(a)	(a)	(a)	(a)
Caustic potash .. ..	15	28					
Chlorate .. ..	8	9					
Nitrate .. ..	45	59					
<b>Japan—</b>							
Fertilizer salts .. ..	(a)	(a)	(a)	(a)	56,454	62,525	52,657
<b>Syria and Lebanon—</b>							
Fertilizer salts .. ..	799	1,153	1,208	592	898	(a)	(a)
Caustic potash .. ..	—	—	1	3	1	(a)	(a)
<b>Turkey—</b>							
Carbonate .. ..	(a)	(a)	(a)	7	164	623	2
Caustic potash .. ..				—	86	27	97
Chlorates .. ..				—	165	291	3
Chromates .. ..				62	43	18	80
Nitrate .. ..				—	2	263	105
Other salts .. ..				16	15	42	47

(a) Information not available.

# PYRITES

## PRODUCTION OF PYRITES\* (including Cupreous Pyrites)

(Long tons)

Producing Country	Estimated Sulphur Content						
	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
Great Britain .. .. .	17,180	27,197	24,409	23,069	20,628	9,946	(a)
Kenya .. .. .	—	—	—	—	407	—	—
Southern Rhodesia .. .	37,060	34,512	33,638	32,937	24,117	16,873	13,016
Union of South Africa .. .	39,829	36,446	35,584	37,947	37,443	34,271	35,424
Canada (sales) (c) .. .	338,833	254,086	223,278	203,324	180,299	159,164	164,348
Cyprus (g) .. .. .	7,888	7,148	11,531	26,365	191,948	427,879	407,662
Australia .. .. .	67,885	77,417	87,617	116,000	117,800	117,800	89,412
TOTAL .. .. .	509,000	437,000	416,000	440,000	573,000	766,000	720,000
<b>FOREIGN COUNTRIES</b>							
Austria .. .. .	(a)	(a)	(a)	(a)	3,768	6,163	8,137
Czechoslovakia .. .. .	11,000	9,000	(a)	(a)	(a)	(a)	(a)
Finland (b) .. .. .	123,547	108,475	125,644	108,578	124,315	149,863	174,708
France (e) .. .. .	211,000	203,987	111,127	167,000	216,821	195,434	170,248
Germany .. .. .	1,196,772	1,374,996	(a)	d 208,900	d 315,800	d 315,800	d 377,000
Greece .. .. .	7,360	3,800	4,310	6,410	63,177	57,256	(a)
Italy .. .. .	955,294	763,429	225,163	101,710	394,193	618,868	821,839
Norway .. .. .	809,221	796,005	738,553	243,557	531,324	708,643	723,412
Poland .. .. .	77,000	86,000	(a)	(a)	27,807	39,033	(a)
Portugal .. .. .	132,784	108,257	128,075	168,267	310,000	382,686	552,274

\* See also Sulphur (page 288).

(a) Information not available.

(b) Pyrite concentrate only.

(c) Produced as a by-product in the treatment of copper and copper-zinc ores.

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

(e) In addition the sulphur content of mispickel and auriferous pyrites was as follows (long tons): 1942—893; 1943—702; 1944—3,547; 1945—5,771; 1946—5,839; 1947—6,496; 1948—7,351.

(f) Estimated.

(g) Revised. Figures which previously referred to mined production, now represent the production of saleable pyrites.

PRODUCTION OF PYRITES (Cont.)

Producing Country	Estimated Sulphur Content													
	1942	1943	1944	1945	1946	1947	1948							
FOREIGN COUNTRIES (Cont.)														
Spain	617,102	867,233	504,159	885,538	1,157,403	995,014	1,359,532	299,000	420,000	245,000	429,000	561,000	483,000	659,000
Sweden	297,502	319,890	312,441	257,846	275,783	305,666	385,841	144,059	157,196	154,971	129,026	134,621	145,271	179,113
Algeria	31,425	25,186	32,385	28,818	39,723	34,780	33,690	13,828	10,413	13,000	11,738	16,244	14,000	13,500
Tunis	—	—	—	453	2,731	6,570	3,164	—	—	—	200	1,255	3,000	1,400
United States (b)	720,363	802,384	788,530	722,596	813,372	940,652	928,531	306,875	328,175	332,760	296,364	337,549	392,252	388,126
Brazil	4,001	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Japan	1,881,916	1,567,584	1,228,929	397,598	474,557	819,588	1,119,909	819,000	701,000	542,000	175,000	202,000	348,000	476,000

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	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
Southern Rhodesia—							
Iron pyrites .. ..	39,311	36,322	33,166	30,465	26,437	17,308	12,246
Canada—							
Pyrites ( <i>S content</i> ) .. ..	148,616	93,311	81,104	67,392	60,754	50,299	44,860
Cyprus—							
Iron pyrites .. ..	4,971	12,987	11,271	100,075	256,203	352,946	369,925
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.	—	782	—	(a)	(a)	(a)	3,282
Finland—							
Concentrate .. ..	(a)	59,810	38,021	75,309	—	11,731	5,462
France .. ..	69,719	11,751	—	9,546	—	934	33
Germany—							
Pyrites, etc. .. ..	14,753	108,425	(b) 70,139	(a)	(a)	(a)	(a)
Italy .. ..	200,270	(c) 81,640	(a)	(a)	(a)	72,082	81,549
Norway—							
Iron pyrites .. ..	242,203	221,031	204,373	47,952	168,058	164,005	274,429
Cupreous pyrites .. ..	294,491	297,366	260,022	66,318	156,708	227,378	206,236
Portugal—							
Cupreous pyrites .. ..	136	11,104	(a)	92,678	238,798	299,110	406,116
Spain—							
Iron pyrites .. ..	284,430	282,844	221,979	491,197	622,049	987,893	1,093,550
Sweden .. ..	20,407	49,210	9,845	48,690	124,586	109,985	64,653
Algeria .. ..	401	—	(a)	(a)	(a)	(a)	5,336
Japan—							
Iron pyrites .. ..	333,855	273,993	201,003	41,394	(a)	(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	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom— Iron and cupreous pyrites	188,383	161,088	159,898	132,618	161,905	175,055	212,803
Irish Republic .. ..	4,795	21,757	8,051	23,150	30,752	30,582	41,193
<b>FOREIGN COUNTRIES</b>							
Austria .. .. .	(a)	(a)	(a)	(a)	(a)	20,981	26,766
Belgium-Luxemburg E.U.	50,647	49,495	17,220	(a)	(a)	(a)	364,691
Czechoslovakia .. ..	(a)	(a)	(a)	(a)	249,063	197,779	(b) 168,077
Denmark .. .. .	5,185	178	4,190	29,564	72,740	110,852	136,944
France .. .. .	31,324	67,507	34,660	95,277	563,243	511,270	594,057
Germany— Pyrites, etc. .. ..	740,703	779,760	(c) 416,016	(a)	(a)	(a)	(a)
Hungary .. .. .	(a)	(a)	(a)	(a)	—	11,686	(a)
Italy— Iron-pyrites .. ..	470	(d) 10,350	(a)	(a)	(a)	17,145	18,388
Netherlands .. ..	48,233	72,671	(a)	(a)	139,987	253,987	258,549
Sweden .. .. .	50,954	34,429	29,850	20,055	108,810	101,077	79,261
United States .. ..	300,140	256,308	180,763	186,507	182,893	126,553	107,411
Japan .. .. .	29,875	52,910	22,701	—	(a)	(a)	(a)

(a) Information not available.

(b) January to October only.

(c) January to July only.

(d) January to June only.

## QUICKSILVER (MERCURY)

### PRODUCTION OF MERCURY

(Lb.)

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
Southern Rhodesia ..	206	33	—	50	—	—	—
Union of South Africa ..	43,983	90,326	90,618	64,789	58,093	—	—
Canada .. .. .	1,035,914	1,690,240	735,908	—	—	—	—
Australia .. .. .	1,165	1,150	876	245	—	—	—
New Zealand .. ..	11,402	7,068	6,840	2,294	—	—	—
<b>FOREIGN COUNTRIES</b>							
Czechoslovakia (b) ..	(a)	(a)	(a)	(a)	(a)	(a)	60,000
Germany .. .. .	37,000	(a)	(a)	(a)	(a)	(a)	(a)
Italy .. .. .	5,582,000	4,700,000	2,180,000	1,962,000	3,862,000	4,096,000	2,906,000
Sweden .. .. .	838	—	1,625	110	—	—	—
Spain .. .. .	5,494,000	3,629,000	2,610,000	3,093,000	3,177,000	4,225,985	1,723,433
Algeria .. .. .	9,171	11,000	12,570	25,404	25,860	25,800	28,990
Tunis .. .. .	238	40	—	—	—	—	—
Mexico .. .. .	2,465,581	2,152,396	1,980,788	1,250,021	886,282	735,945	363,015
United States .. ..	3,864,296	3,946,604	2,864,288	2,337,988	1,926,448	1,766,544	1,093,488
Bolivia (exports) ..	—	3,883	181	214	—	—	—
Chile .. .. .	171,921	234,645	89,761	65,491	59,569	39,143	35,510
Peru .. .. .	—	24,251	11,023	15,803	381	—	—
China .. .. .	359,000	260,000	231,000	152,000	(a)	(a)	(a)
Japan .. .. .	395,000	510,000	539,300	236,500	104,300	123,113	128,351
Turkey .. .. .	13,376	14,136	7,372	12,008	—	7,448	2,052
<b>WORLD'S TOTAL (b) ..</b>	<b>20,100,000</b>	<b>18,000,000</b>	<b>12,000,000</b>	<b>10,000,000</b>	<b>10,900,000</b>	<b>11,900,000</b>	<b>7,500,000</b>

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

(a) Information not available.

(b) Estimated.

EXPORTS OF MERCURY, ETC.

(Domestic Produce)

(Lb.)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Mercury .. .. .	8,093	2,375	483	1,818	45,778	6,168	14,133
Union of South Africa—							
Mercury .. .. .	(a)	—	34,050	82,350	25,575	(a)	(a)
Canada—							
Mercury .. .. .	(a)	(a)	(a)	(a)	57,005	17,084	175
Hong Kong (re-exports)—							
Mercury .. .. .	(a)	(a)	(a)	(a)	9,576	33,333	7,144
Malaya (b)—							
Mercury .. .. .	(a)	(a)	(a)	(a)	46,701	6,171	271
Sarawak—							
Mercury .. .. .	(a)	(a)	(a)	(a)	(c) 230	—	—
Australia—							
Mercury .. .. .	350	256	—	1	125	5,923	8,133
New Zealand—							
Mercury .. .. .	12,500	2,987	6,852	150	—	—	—
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Mercury .. .. .	(a)	(a)	(a)	(a)	—	(a)	{ 661 7,275 11,022
Sulphide of Mercury ..							
Mercury salts .. .. .							
Czechoslovakia—							
Mercury .. .. .	(a)	(a)	(a)	(a)	—	—	(d) 45,636
France—							
Mercury .. .. .	400	—	—	221	3,547	8,818	(a)
Mercury salts .. .. .	4,200	20,900	—	—	—	3,086	(a)
Germany—							
Cinnabar .. .. .	6,400	4,200	(e) 2,200	}	(a)	(a)	(a)
Mercury and amalgam ..	32,400	424,400	(e) 104,100				
Mercury salts .. .. .	106,500	173,500	(e) 73,900				
Italy—							
Mercury .. .. .	3,130,564	3,880,135	1,124,357	—	1,984,160	1,274,051	2,406,125
Netherlands—							
Mercury and amalgam ..	302	176	(a)	(a)	—	—	(a)
Spain—							
Mercury .. .. .	602,500	692,490	804,467	2,634,590	867,739	1,311,089	5,696,744
Mercury salts .. .. .	—	110	187	51	190	55	20,128
Sweden—							
Mercury .. .. .	847	243	115	1,455	465	300	476
Switzerland—							
Mercury .. .. .	—	4	—	2	1,195	163	196
Algeria—							
Mercury .. .. .	14,330	441	1,764	38,360	34,392	30,644	9,259
Mexico—							
Mercury .. .. .	2,474,067	3,081,537	1,574,887	1,172,766	844,683	945,413	(a)
United States—							
Mercury .. .. .	26,252	29,236	57,007	78,877	68,932	67,148	59,713
Chloride .. .. .	30,105	29,372	62,167	57,005	}	(a)	(a)
Fulminate .. .. .	39,595	35,450	26,190	506			
Oxide .. .. .	9,495	50,483	13,054	26,950			
Other salts .. .. .	9,016	7,997	10,614	35,746			

- (a) Information not available.
- (b) Including re-exports.
- (c) April 15 to December 31 only.
- (d) January to October.
- (e) January to July only.

EXPORTS OF MERCURY, ETC. (Cont.)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Bolivia—							
Mercury .. .. .	—	3,883	185	214	—	—	99
Chile—							
Mercury .. .. .	172,207	265,886	84,153	74,565	68,423	7,978	(a)
Peru—							
Mercury .. .. .	—	24,771	11,585	15,803	381	—	(a)
Japan—							
Mercury .. .. .	112,311	80,639	49,192	11,231	—	187,393	782,641
Turkey—							
Mercury .. .. .	(a)	(a)	—	3,269	2,696	—	—
Yugoslavia—							
Mercury .. .. .	(a)	(a)	(a)	(a)	(a)	(b)	(b)

(a) Information not available.

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

## IMPORTS OF MERCURY, ETC.

(Less Re-exports)

(Lb.)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Mercury .. .. .	2,161,197	797,434	(c) 4,465	105,061	128,642	1,777,583	1,784,538
Anglo-Egyptian Sudan—							
Mercury .. .. .	(a)	(a)	(a)	(a)	(a)	(a)	150
Southern Rhodesia—							
Mercury .. .. .	(c) 1,040	(c) 716	11,156	52	2,525	24,278	14,799
Tanganyika Territory—							
Mercury .. .. .	3,356	615	—	516	605	438	3,100
Union of South Africa—							
Mercury .. .. .	13,315	2,144	3,396	1,977	19,711	(a)	(a)
Canada—							
Mercury .. .. .	1,971	2,047	35,428	27,101	152,719	412,649	803,878
Mercury salts .. .. .	(£2,717)	(£1,066)	(£327)	(£2,415)	(£696)	(£2,161)	(£1,072)
Newfoundland (b)—							
Mercury .. .. .	(a)	(a)	136	522	64	132	198
British Guiana—							
Mercury .. .. .	1,485	314	154	75	1,060	1,939	632
Burma—							
Mercury .. .. .	(a)	(a)	(a)	(a)	(d) 560	(a)	(a)
Hong Kong (total imports)—							
Mercury .. .. .	(a)	(a)	(a)	(a)	56,700	120,000	396,644
India—							
Mercury .. .. .	142,526	27,140	181,457	186,904	412,678	347,770	686,126
Malaya (total imports)—							
Mercury .. .. .	(a)	(a)	(a)	(a)	306	512	1,447
Australia—							
Mercury .. .. .	152,241	55,959	33,515	32,554	7,433	25,009	105,203
Mercury salts .. .. .	44,874	55,972	38,321	28,414	36,648	8,830	38,655
New Zealand—							
Mercury .. .. .	370	1,576	1,276	—	85	1,257	2,495
FOREIGN COUNTRIES							
Austria—							
Mercury .. .. .	(a)	(a)	(a)	(a)	(a)	17,196	12,346
Mercury salts .. .. .	(a)	(a)	(a)	(a)	(a)	2,646	441
Belgium-Luxemburg E.U.—							
Mercury .. .. .	11,900	19,400	(a)	} (a)	(a)	(a)	{ 172,868
Sulphide of mercury .. .. .	1,800	5,500	—				
Mercury salts .. .. .	143,300	240,300	143,500				
Bulgaria—							
Mercury .. .. .	2,685	4,965	392	7,402	4,852	(a)	(a)
Czechoslovakia—							
Mercury .. .. .	(a)	(a)	(a)	(a)	661	224,651	(f) 53,352
Denmark—							
Mercury .. .. .	9,500	5,300	1,500	4,409	13,448	14,771	26,235
Finland (total imports)—							
Mercury and amalgam .. .. .	63,707	88,709	41,526	40	4,319	55,971	9,345
France—							
Mercury .. .. .	13,400	1,500	9,105	369,936	515,882	560,195	(a)
Mercury salts .. .. .	7,100	38,400	309	2	50,927	14,110	(a)
Germany—							
Cinnabar .. .. .	200	200	(e) —	} (a)	(a)	(a)	(a)
Mercury and amalgam .. .. .	3,752,500	4,565,100	(e) 1,888,700				
Mercury salts .. .. .	7,900	15,900	(e) 200				
Netherlands—							
Mercury and amalgam .. .. .	74,856	57,294	(a)	(a)	123,459	70,548	112,436
Norway—							
Mercury .. .. .	2,958	132,044	183	3,598	177,148	43,600	4,445
Portugal—							
Mercury .. .. .	8,228	2,130	12,822	26,336	36,612	29,008	6,146
Mercury salts .. .. .	5,650	3,212	2,037	3,199	6,113	9,509	9,121

(a) Information not available.

(c) Excess of re-exports.

(f) January to October only.

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

(d) February to September only.

(e) January to July only.

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
Sweden—							
Mercury .. .. .	184,635	19,002	32,631	131,407	525,690	227,901	279,667
Switzerland—							
Mercury .. .. .	77,722	99,662	10,587	10,818	192,338	64,653	101,832
Algeria—							
Mercury .. .. .	661	—	—	—	—	—	2,748
Mercury salts .. ..	66	—	286	22	44	—	(a)
Angola—							
Mercury .. .. .	55	9	35	18	108	54	(a)
Egypt—							
Mercury .. .. .	8,093	19,165	399	174	1,023	2,873	558
Morocco (French)—							
Mercury .. .. .	—	551	1,543	—	331	386	152
Mozambique—							
Mercury .. .. .	29	24	9	11	236	368	(a)
Tunis—							
Mercury .. .. .	—	220	—	—	—	220	441
Costa Rica—							
Mercury .. .. .	1,953	730	946	677	3,589	1,801	(a)
Cuba (total imports)—							
Mercury .. .. .	1,662	911	1,188	4,191	(a)	(a)	(a)
Mexico—							
Mercury .. .. .	198	397	710	1,186	988	(a)	(a)
Mercury salts .. ..	101,973	2,183	1,530	917	3,971	(a)	(a)
United States—							
Mercury .. .. .	2,959,489	2,504,489	1,476,426	5,086,247	876,853	749,618	2,358,226
Mercury salts .. ..	2	(a)	—	336	(a)	(a)	(a)
Argentina—							
Mercury .. .. .	76,084	4,478	58,070	22,555	60,528	(a)	(a)
Mercury salts .. ..	11,843	1,058	2,161	7,875	8,389	(a)	(a)
Brazil (total imports)—							
Mercury .. .. .	34,397	31,919	59,082	30,053	76,478	23,459	102,268
Chile—							
Mercury .. .. .	1,232	529	545	205	—	(a)	(a)
Mercury salts .. ..	1,680	238	2,628	2,284	2,901	(a)	(a)
Colombia—							
Mercury .. .. .	5,670	2,372	6,821	(a)	9,083	(a)	(a)
Mercury salts .. ..	794	9,484	(a)	(a)	3,545	(a)	(a)
Dutch Guiana—							
Mercury .. .. .	(a)	(a)	(a)	(a)	160	(a)	(a)
Peru—							
Mercury .. .. .	216	—	110	165	183	(a)	(a)
Mercury salts .. ..	1,680	2,584	1,362	430	1,493	(a)	(a)
Uruguay—							
Mercury .. .. .	(a)	1,550	66	(a)	(a)	(a)	(a)
Venezuela—							
Mercury .. .. .	3,278	48,215	(a)	9,533	14,279	134,890	(a)
Mercury salts .. ..	763	1,545	(a)	(a)	9,623	9,228	(a)
China—							
Vermilion .. .. .	(a)	(a)	(a)	(a)	(b) 15,584	(b) 83,121	(a)
Iran (total imports) (c)—							
Mercury .. .. .	379	1,603	(a)	(a)	16,248	2,928	(a)
Japan—							
Mercury .. .. .	42,229	607,400	26,955	225	(a)	(a)	(a)
Philippine Republic—							
Mercury .. .. .	(a)	(a)	(a)	547	12,809	(a)	(a)
Syria and Lebanon—							
Mercury .. .. .	—	—	—	44	3,505	(a)	(a)
Turkey—							
Mercury .. .. .	(a)	(a)	141	353	509	692	509
Mercury salts .. ..	(a)	(a)	1,658	1,852	3,128	10,055	1,404

(a) Information not available.

(b) Including artificial vermilion.

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

**SALT**  
**PRODUCTION OF SALT**  
(Long tons)

Producing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
Great Britain—							
Rock-salt .. ..	26,968	21,174	17,490	16,792	20,490	39,997	(a)
Brine-salt .. ..	879,362	796,459	827,982	820,409	875,281	851,625	(a)
Salt in brine (b) .. ..	2,689,739	2,555,755	2,525,978	2,396,050	2,456,779	2,247,277	(a)
Northern Ireland—							
Brine-salt .. ..	13,286	11,006	11,043	12,479	13,261	12,404	13,036
Mauritius—							
Sea-salt .. ..	(c) 1,000	3,350	3,867	2,960	3,115	3,928	3,350
South West Africa—							
Rock-salt .. ..	1,866	2,063	3,216	2,795	3,477	2,744	4,366
Other salt .. ..	7,683	8,073	8,954	10,690	10,423	9,705	10,249
Anglo-Egyptian Sudan .. ..	39,004	39,849	35,401	43,769	40,335	36,408	36,238
Kenya .. ..	13,473	15,076	13,829	15,242	15,388	13,836	16,547
Tanganyika Territory .. ..	9,183	10,399	10,005	9,352	13,162	10,666	11,882
Uganda .. ..	4,146	5,160	(a)	(a)	5,589	6,892	2,992
Union of South Africa (d) .. ..	131,504	106,973	121,611	138,272	141,407	(a)	38,000
Canada (sales)—							
Rock-salt .. ..	44,821	42,656	34,651	33,772	34,260	35,810	23,132
Brine-salt .. ..	538,815	571,349	586,078	567,189	446,084	614,677	638,708
British West Indies—							
Sea-salt—							
Bahamas (exports) .. ..	6,036	821	11,571	33,500	82,357	72,607	31,439
Leeward Islands (exports) .. ..	5,226	2,745	4,625	7,596	6,444	(a)	(a)
Turks and Caicos Islands .. ..	42,864	73,850	30,865	19,470	29,045	—	38,000
Aden .. ..	68,837	199,236	205,508	139,945	113,042	194,549	271,058
Burma .. ..	(a)	(a)	(a)	(a)	43,916	51,736	44,171
Ceylon .. ..	18,383	13,563	28,233	41,695	42,920	22,791	77,000
Cyprus .. ..	5,500	—	5,250	—	3,375	15,375	—
India—							
Rock-salt .. ..	216,014	327,585	1,864,725	1,943,593	259,041 1,659,065	—	—
Other salt .. ..	1,675,946	1,599,308				1,895,588	2,333,548
Pakistan—							
Rock-salt .. ..	(e)	(e)	(e)	(e)	(e)	198,110	153,988
Palestine—							
Rock-salt .. ..	1,856	1,793	1,162	2,110	1,546	(a)	(a)
Sea-salt .. ..	10,536	17,671	18,754	16,092	22,797	(a)	(a)
Australia (f)—							
South Australia .. ..	174,176	184,312	164,885	171,067	158,214	155,074	173,087
Western Australia .. ..	(a)	(a)	(a)	(a)	(a)	(a)	7,000
Total* .. ..	6,600,000	6,500,000	6,500,000	6,400,000	6,370,000	6,600,000	7,000,000
<b>FOREIGN COUNTRIES</b>							
Austria—							
Rock-salt .. ..	414	102,631	3,500 88,500	52,106	543 77,323	4,275 79,851	1,665 79,733
Brine-salt .. ..	102,633						
France—							
Rock-salt and brine-salt .. ..	1,133,697	1,125,030	537,690	632,233	1,490,551	2,114,213	2,236,900
Sea-salt .. ..	549,049	552,150	404,023	505,919	469,220	460,028	406,351

\* See page 274.

(a) Information not available.

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

(c) Estimated.

(d) Years ended June 30 of that stated.

(e) Included with India.

(f) Salt is also produced in Victoria and South Australia but figures are not available. Total Australian production in 1948 is estimated at 260,000 tons.



PRODUCTION OF SALT (Cont.)

Producing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
Germany—							
Rock-salt .. ..	4,061,000	(a)	(a)	(a)	} (d)1,593,536	(d)1,796,232	(d)2,003,537
Other salt .. ..	560,000	(a)	(a)	(a)			
Greece—							
Sea-salt (b) .. ..	(a)	(a)	(a)	(a)	75,000	85,000	90,000
Italy—							
Rock-salt and brine-salt	705,510	460,635	31,998	150,836	440,450	709,404	701,353
Sea-salt .. ..	455,504	394,323	442,942	969,912	780,320	658,334	(a)
Netherlands (brine-salt) ..	190,700	190,648	122,223	52,800	177,394	236,779	242,174
Poland—							
Rock-salt and brine-salt	} (a)	(a)	(a)	(a)	{ 269,758	333,723	412,968
Salt in brine .. ..							
Portugal—							
Rock-salt .. ..	50	73	79	70	45	68	48
Sea-salt (exports) .. ..	735	51	3,371	7,646	81,663	24,675	10,492
Roumania—							
Rock-salt and sea-salt ..	354,000	371,000	(a)	(a)	(a)	(a)	(a)
Spain—							
Rock-salt .. ..	244,380	262,021	239,237	224,423	258,508	261,059	288,255
Sea-salt .. ..	399,258	492,489	441,966	553,570	502,064	560,350	685,598
Switzerland .. ..	80,102	75,475	83,351	81,352	90,635	106,055	107,106
Algeria—							
Brine-salt and sea-salt ..	59,692	25,412	45,832	49,181	65,519	80,759	(a)
Angola .. ..	44,432	42,733	37,058	48,769	60,683	38,170	(a)
Belgian Congo .. ..	1,172	(b) 1,200	1,684	875	629	756	(a)
Canary Islands .. ..	13,951	13,315	14,634	16,044	13,443	6,846	13,000
Cape Verde Islands .. ..	25,375	11,778	17,248	7,761	14,149	9,100	13,417
Egypt (b) .. ..	350,000	350,000	350,000	350,000	350,000	350,000	350,000
Eritrea (sea-salt) .. ..	8,810	8,762	10,781	26,629	40,320	45,000	60,000
Ethiopia (b) .. ..	10,000	10,000	10,000	10,000	10,000	10,000	10,000
French Somaliland .. ..	200	21,893	41,971	45,400	31,700	47,000	58,700
Morocco (French)—							
Rock-salt, etc. .. ..	} 41,878	{ 3,947	5,024	6,092	8,345	9,864	15,230
Brine-salt .. ..							
Morocco (Spanish)—							
Sea-salt (b) .. ..	250	250	250	250	250	250	250
Mozambique .. ..	2,522	8,092	5,630	5,723	7,096	8,526	76
Tunis (sea-salt) .. ..	61,139	9,891	51,651	60,322	91,925	112,979	103,578
Cuba (sea-salt) .. ..	43,043	46,348	45,491	51,508	55,885	50,416	54,465
Dominican Republic—							
Rock-salt .. ..	(a)	(a)	(a)	(a)	2,732	2,051	2,328
Sea-salt .. ..	5,602	12,421	11,100	14,900	15,497	14,682	12,872
Haiti (b) .. ..	(a)	8,000	8,000	(a)	(a)	(a)	(a)
Mexico (b) .. ..	570,000	730,000	(a)	(a)	(a)	(a)	(a)
Netherlands West Indies ..	(c) 4,502	(c) 4,715	(c) 5,069	2,549	876	214	475
Nicaragua (b)—							
Sea-salt .. ..	6,000	6,000	6,000	6,000	6,000	6,000	6,000
Panama .. ..	20,359	—	20,248	4,796	15,664	8,722	(a)
Porto Rico (sea-salt) (b) ..	15,000	15,000	15,000	15,000	15,000	15,000	15,000
Salvador .. ..	(a)	(a)	13,304	17,852	68,135	16,452	21,172
United States (sales)—							
Rock-salt .. ..	2,502,042	2,909,945	3,078,784	3,130,125	3,046,436	3,352,101	3,434,684
Salt in brine .. ..	6,583,183	7,108,138	7,434,207	7,773,063	7,563,107	8,236,878	8,347,361
Evaporated salt .. ..	3,140,922	3,565,981	3,520,197	2,841,580	2,901,301	2,820,284	2,863,753
Argentina—							
Rock-salt .. ..	349	739	2,202	3,221	(a)	(a)	(a)
Brine-salt .. ..	358,526	434,051	441,946	426,276	(a)	(a)	(a)
Bolivia (b) .. ..	17,000	19,000	(a)	(a)	(a)	(a)	(a)
Brazil (sea-salt) .. ..	589,084	409,562	446,437	423,368	599,577	553,685	768,993
Chile .. ..	54,650	36,525	45,664	47,324	61,738	58,472	52,905

(a) Information not available.  
(c) Exports.

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

## PRODUCTION OF SALT (Cont.)

Producing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
Colombia—							
Rock-salt .. ..	4,740	5,177	100,577	89,196	91,000	89,126	93,027
Brine-salt (b) .. ..	71,000	88,000					
Sea-salt .. ..	31,412	18,673	31,170	14,217	31,403	25,708	24,258
Costa Rica .. ..	7,605	3,360	6,100	6,000	8,000	(a)	(a)
Ecuador (sea-salt) .. ..	24,500	11,758	35,390	27,200	34,500	24,500	22,300
Guatemala—							
Sea-salt .. ..	11,577	12,416	12,443	(a)	(a)	(a)	(a)
Peru—							
Rock-salt .. ..	45,114	48,253	49,834	10,238	9,064	10,207	9,618
Sea-salt .. ..				35,404	37,101	43,300	47,538
Brine-salt .. ..				8,631	9,556	5,650	4,897
Venezuela (sea-salt) .. ..	20,678	35,451	47,038	56,552	89,125	35,229	34,972
China (c) .. ..	5,115,820	1,492,850	988,387	787,793	2,231,535	2,220,864	2,797,400
French Indo-China .. ..	271,600	216,300	145,800	99,388	(d) 14,502	40,900	63,100
Iraq .. ..	11,241	20,687	11,606	13,982	9,362	12,435	13,120
Japan—							
Government-licensed							
plants (f) .. ..	467,909	408,064	347,571	181,385	197,967	(e) 113,097	(e) 287,491
Others (f) .. ..	(a)	(a)	(a)	18,633	143,759	130,460	47,012
Jordan (brine-salt) .. ..	(a)	(a)	(a)	(a)	(a)	(a)	100
Lebanon .. ..	1,029	7,055	(a)	(a)	(a)	(a)	(b) 5,000
Netherlands East Indies (g)	162,824	262,893	272,668	128,391	29,385	(a)	(a)
Portuguese India .. ..	(a)	(a)	(a)	(a)	(a)	20,000	(a)
Siam .. ..	226,724	183,654	106,423	40,739	135,427	(a)	(a)
Syria .. ..	(b) 15,000	16,829	21,439	1,064	15,193	20,401	(a)
Turkey—							
Rock-salt .. ..	21,756	22,614	262,125	(a)	19,896	26,552	27,742
Lake and spring salt .. ..	199,657	239,510			30,176	74,296	70,979
Sea-salt .. ..					152,973	171,622	164,005
TOTAL* .. ..	34,000,000	30,000,000	28,000,000	27,000,000	30,000,000	33,000,000	35,000,000
WORLD'S TOTAL* .. ..	40,000,000	37,000,000	34,000,000	33,000,000	36,000,000	39,500,000	42,000,000

\* Salt is also produced in many countries for which statistics are not available, e.g., Gold Coast, Nigeria, 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) Estimated.
- (c) U.S. Bureau of Mines.
- (d) Cochin-China only.
- (e) Calendar years.
- (f) Years ended March 31 following that stated.
- (g) Government production of brine-salt.

EXPORTS OF SALT

(Domestic Produce)

(Long tons)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom—							
Rock-salt .. .. .	3,608	4,188	4,098	3,415	7,332	5,550	7,692
Other salt .. .. .	143,044	124,731	132,972	135,579	170,315	142,413	194,817
Anglo-Egyptian Sudan .. .. .	16,031	19,599	11,400	3,770	20,768	46,745	5,755
Gold Coast .. .. .	743	3	1	1	1	1,579	403
Kenya .. .. .	721	66	86	457	176	60	83
Southern Rhodesia .. .. .	—	198	136	157	132	201	292
South-West Africa .. .. .	(b)	(b)	(b)	(b)	(b)	(a)	(a)
Tanganyika Territory .. .. .	3,260	3,819	3,662	2,648	3,427	3,110	2,937
Uganda .. .. .	1,158	1,399	1,495	1,455	1,823	1,556	1,309
Union of South Africa .. .. .	15,389	3,704	256	2,626	15,119	(a)	(a)
Canada .. .. .	8,327	7,198	2,841	4,745	5,236	10,010	5,026
British West Indies—							
Bahamas (c) .. .. .	6,036	821	11,571	33,500	82,357	72,607	31,499
Leeward Islands .. .. .	5,226	2,745	4,625	7,596	6,444	8,610	(a)
Turks and Caicos Islands .. .. .	(c) 15,335	7,873	8,896	11,992	19,541	70,340	70,685
Aden .. .. .	72,399	91,415	119,711	62,305	84,187	320,770	265,238
Ceylon .. .. .	21	10	242	260	27	213	2
Hong Kong (including re-exports) .. .. .	(a)	(a)	(a)	(a)	10,504	14,638	11,850
India (d) .. .. .	29,801	31,462	33,475	38,975	32,696	7,635	8,590
Malaya (including re-exports) .. .. .	(a)	(a)	(a)	(a)	18,236	51,297	39,124
Australia—							
Rock-salt .. .. .	14	184	36	7	108	3	85
Refined salt (£ Australian) .. .. .	(£2,735)	(£2,657)	(£3,093)	(£14,288)	(£8,023)	(£111,825)	(e) 543
Other salt .. .. .	14,444	34,955	16,970	24,718	14,574	10,969	22,771
<b>FOREIGN COUNTRIES</b>							
Austria .. .. .	—	—	994	1,281	6,705	7,604	5,597
Belgium-Luxemburg E.U.—							
Common salt .. .. .	46	29	1	(a)	(a)	(a)	1
Refined salt .. .. .	—	—	—	(a)	(a)	(a)	17
Denmark—							
Refined salt, etc. .. .. .	1	1	1	11	54	240	71
France .. .. .	31,001	1,674	444	30,635	128,670	183,614	295,342
Germany—							
Rock-salt, sea-salt, etc. .. .. .	1,034,903	1,364,859	(f) 704,020	(a)	(a)	(a)	(a)
Italy—							
Rock-salt and sea-salt .. .. .	(a)	(a)	(a)	(a)	(a)	302,033	534,310
Netherlands—							
Rock-salt and sea-salt .. .. .	—	238	(a)	(a)	—	85	(a)
Refined salt and waste .. .. .	84,165	76,500	(a)	(a)	65,288	129,539	150,963
Norway—							
Common salt .. .. .	—	—	—	—	3,271	6	59
Refined salt .. .. .	—	—	—	5	4	30	4

(a) Information not available.

(b) 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; 1946—122.

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

(d) Includes trade by land as recorded.

(e) Valued £A. 3,821.

(f) January to July only.

EXPORTS OF SALT (Cont.)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
Poland .. .. .	(a)	(a)	(a)	(a)	(a)	28,956	70,999
Portugal .. .. .	735	51	3,371	7,646	81,663	24,675	10,492
Spain .. .. .	116,863	64,504	73,728	192,991	327,412	339,195	360,177
Sweden .. .. .	7	1	732	13,959	2,437	2,218	658
Algeria .. .. .	6,656	676	453	1,828	10,022	15,629	43,003
Angola .. .. .	13,176	25,146	20,131	22,110	17,173	21,732	(a)
Cape Verde Islands ..	23,177	12,020	12,045	(a)	(a)	(a)	(a)
Egypt—							
Common salt .. .. .	107,905	105,287	195,971	251,373	222,519	613,263	354,584
French Somaliland ..	197	21,893	41,970	23,112	25,324	48,016	58,200
French West Africa ..	748	2,330	700	353	2,023	3,225	(a)
Madagascar .. .. .	691	469	146	1,522	583	18	246
Mozambique .. .. .	3,011	2,667	1,903	2,857	860	128	995
Morocco (French) ..	150	1	1,076	—	6,294	65	(a)
Morocco (Spanish) ..	(a)	(a)	93	347	800	398	(a)
Tunis (including re-exports)							
Rock-salt and sea-salt ..	6,848	3,197	4,406	65,062	14,909	60,436	175,797
Cuba .. .. .	180	409	523	(a)	(a)	(a)	(a)
Mexico .. .. .	24	—	—	1	—	(a)	(a)
Netherlands West Indies ..	4,502	4,715	2,435	1,565	(a)	(a)	(a)
United States .. .. .	105,736	130,277	177,114	170,111	199,488	168,131	327,394
Argentina .. .. .	56,880	107,673	109,606	38,551	34,404	(a)	(a)
Brazil .. .. .	688	1,563	8,112	1,188	482	209	(a)
Chile .. .. .	241	5,551	7,461	166	148	(a)	(a)
Ecuador .. .. .	247	178	(a)	(a)	(a)	(a)	(a)
China—							
Refined salt .. .. .	} (a)	(a)	(a)	244,301	{ 24,048	9,842	(a)
Other salt .. .. .							
Formosa (c) .. .. .	175,000	175,000	200,000	(a)	220,252	164,477	(a)
French Indo-China .. ..	(a)	(a)	(a)	(a)	(a)	—	22,699
Iran (including re-exports)(b)	443	297	(a)	(a)	1,255	1,035	(a)
Japan .. .. .	(a)	(a)	(a)	(a)	(a)	3,248	(a)
Portuguese India .. .. .	13,559	10,206	10,921	9,700	7,863	11,026	(a)
Siam (including re-exports)	36,466	13,559	5,213	2,373	(a)	(a)	(a)
Turkey .. .. .	(a)	(a)	—	—	52,723	35,093	28,738

(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	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom—							
Rock-salt .. ..	—	78	—	923	—	—	1
Other salt .. ..	86	—	3	7	15,808	104,252	42,420
Malta—							
Refined salt .. ..	(a)	(a)	(a)	(£2,068)	(£1,772)	(£1,189)	(£1,464)
Other salt .. ..	(a)	(a)	(a)	687	2	1	—
Anglo-Egyptian Sudan .. ..	324	64	—	286	259	217	270
Gambia .. ..	83	383	1,140	175	2	147	(a)
Gold Coast—							
Refined salt .. ..	13	3	8	14	15	36	20
Other salt .. ..	492	45	27	8	406	471	850
Kenya and Uganda .. ..	1,650	5,899	2,041	(b) 182	2,117	7,030	6,436
Mauritius .. ..	322	—	495	500	—	—	—
Nigeria .. ..	76,218	51,637	61,673	56,560	67,723	79,364	77,410
Northern Rhodesia .. ..	2,560	4,556	3,802	3,543	4,475	3,673	(a)
Nyasaland .. ..	4,142	4,872	2,228	4,698	5,552	2,735	3,233
Seychelles .. ..	147	162	525	187	—	86	312
Sierra Leone .. ..	1,628	3,207	3,034	2,968	3,868	2,988	4,163
Somaliland .. ..	6,648	2,695	2,317	1,320	1,310	(a)	(a)
South West Africa .. ..	279	254	188	372	488	(a)	(a)
Southern Rhodesia .. ..	7,433	13,575	13,803	10,270	4,853	11,044	12,494
Tanganyika Territory .. ..	(b) 5	441	256	814	584	194	577
Union of South Africa—							
Rock-salt .. ..	—	4,789	—	29	76	(a)	(a)
Common salt and refined salt .. ..	2,556	15,145	22,753	841	1,891	(a)	(a)
Zanzibar .. ..	1,133	1,528	2,874	665	3,078	822	(a)
Canada (total imports)—							
Salt for use of fisheries	18,630	18,783	28,088	21,164	44,516	45,663	26,172
Refined salt .. ..	1	—	—	—	1,365	36	—
Other salt .. ..	43,087	56,475	103,414	96,843	157,959	150,622	139,964
Newfoundland (c)—							
Salt in bulk .. ..	(d) 33,212	47,252	40,221	56,960	60,819	60,328	59,608
Refined salt .. ..	(d) (£4,878)	(£7,383)	591	737	731	848	682
British Honduras .. ..	442	287	351	298	453	457	403
British West Indies—							
Barbados .. ..	1,751	2,006	2,047	1,538	2,957	2,069	2,237
Bermuda .. ..	190	184	101	174	118	156	134
Dominica .. ..	544	187	359	301	247	342	398
Grenada .. ..	526	220	838	284	707	836	1,109
Jamaica—							
Rock-salt .. ..	94	31	—	(b) 1	16	116	20
Other salt .. ..	10,277	9,614	8,579	8,088	9,937	8,880	10,836
Leeward Islands .. ..	—	—	—	2	(a)	(a)	(a)
St. Lucia—							
Common salt .. ..	589	118	756	384	476	482	420
Refined salt .. ..	10	14	10	—	17	3	11
St. Vincent—							
Unrefined salt .. ..	(a)	(a)	(a)	1,537	826	(a)	(a)
Refined salt .. ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Trinidad and Tobago—							
Rock-salt .. ..	749	371	660	885	147	606	207
Refined salt .. ..	4,544	2,130	3,858	1,750	2,598	4,752	3,739
British Guiana—							
Rock-salt .. ..	1,957	568	1,435	102	543	608	409
Refined salt, etc. .. ..	1,480	982	2,067	455	1,432	1,307	1,840

(a) Information not available.

(c) Years ended March 31 following that stated.

(b) Excess of re-exports.

(d) Nine months ended March 31, 1943.

## IMPORTS OF SALT (Cont.)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES (Cont.)</b>							
Aden .. .. .	2	2	2	—	1	5	7
Brunei .. .. .	(a)	(a)	(a)	(a)	(a)	98	70
Burma .. .. .	(a)	(a)	(a)	(a)	(b) 1,548	(a)	(a)
Ceylon—							
Refined salt .. ..	20	52	23	4	2	1	3
Other salt .. .. .	1,013	73	22	12,011	15	10	24
Cyprus .. .. .	—	—	—	1	15	6	44
Hong Kong (total imports)	(a)	(a)	(a)	(a)	25,249	55,086	49,412
India .. .. .	117,654	174,473	441,801	278,093	85,505	306,349	345,576
Malaya (total imports)—							
Refined salt .. ..	} (a)	(a)	(a)	(a)	{ 477	52	59
Other salt .. .. .						80,866	80,441
Palestine .. .. .	40	10,194	120	—	814	(a)	(a)
Sarawak .. .. .	(a)	(a)	(a)	(a)	(c) 2,617	2,413	3,359
Australia—							
Rock-salt .. .. .	2,141	3,231	2,457	1,918	2,850	2,669	3,865
Refined salt .. ..	(£15,177)	(£1,667)	(£2,556)	(£5,818)	1,012	1,562	2,562
Other salt .. .. .	2,213	9,584	5,058	979	26	115	220
Fiji .. .. .	1,143	1,690	128	785	1,240	1,524	1,621
New Zealand .. ..	52,574	68,027	28,992	41,677	41,614	57,329	50,774
Solomon Islands (d) ..	(a)	(a)	—	1	2	6	(a)
Irish Republic							
Refined salt .. ..	4,057	2,587	3,006	2,764	3,489	3,346	3,148
Other salt .. .. .	35,409	22,467	28,675	25,249	29,581	29,109	26,377
<b>FOREIGN COUNTRIES</b>							
Austria—							
Common salt .. ..	(a)	(a)	(a)	(a)	(a)	—	2,667
Belgium-Luxemburg E.U.—							
Common salt .. ..	179,872	181,345	78,654	(a)	(a)	(a)	382,398
Refined salt .. ..	105,026	131,733	97,880	(a)	(a)	(a)	68,606
Bulgaria—							
Rock-salt .. .. .	80,487	73,960	19,015	5,229	8,893	(a)	(a)
Sea-salt .. .. .	34,543	4,464	—	—	—	(a)	(a)
Czechoslovakia—							
Common salt .. ..	(a)	(a)	(a)	(a)	{ 113,358	141,848	(e) 201,510
Refined salt .. ..	(a)	(a)	(a)	(a)		137,225	94,350
Denmark—							
Rock-salt .. .. .	2,426	2,131	2,428	208	166	58	148
Refined salt .. ..	107,218	85,231	100,388	49,774	98,341	119,121	84,781
Finland (total imports)—							
Common salt .. ..	120,455	158,704	52,165	43,885	108,594	112,431	128,815
France .. .. .	373	122	113	1,144	1,464	9,181	16,058
Germany—							
Rock-salt, sea-salt, etc.	33,818	55,024	(f) 43,184	(a)	(a)	(a)	(a)
Hungary .. .. .	(a)	(a)	(a)	(a)	51,971	89,438	(a)
Iceland—							
Common salt .. ..	12,982	6,987	10,284	5,803	19,879	(a)	(a)
Refined salt .. ..	59	37	33	68	30	(a)	(a)
Netherlands—							
Rock-salt .. .. .	57,754	70,908	(a)	(a)	21,694	37,099	45,799
Sea-salt, etc. .. ..	—	—	(a)	(a)	28,296	42,704	58,802
Refined salt and waste ..	60	118	(a)	(a)	1	(a)	(a)

(a) Information not available.

(b) February to September only.

(c) April 15 to December 31 only.

(d) Years ended March 31 following that stated.

(e) January to October only.

(f) January to July only.

## IMPORTS OF SALT (Cont.)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
Norway—							
Common salt .. ..	135,770	132,868	126,522	123,162	199,335	231,580	234,160
Refined salt .. ..	20,496	26,372	24,119	10,130	15,504	14,968	20,240
Portugal .. ..	60,233	22,860	15,730	1	9	176	26
Sweden—							
Common salt .. ..	198,763	208,310	229,793	76,795	243,671	290,643	287,745
Switzerland .. ..	1,234	2,994	1,868	—	472	246	382
Algeria .. ..	6,257	2,481	10,723	5,482	3,089	2,486	1,391
Belgian Congo .. ..	(a)	28,278	28,622	21,152	31,846	25,050	—
Cameroon (French) ..	7,262	8,760	10,194	6,526	4,851	10,059	10,173
Egypt—							
Common salt .. ..	183	176	71	213	197	135	271
Ethiopia (b) .. ..	19,161	35,059	34,138	45,306	42,752	45,000	42,000
French Equatorial Africa	6,733	4,614	8,373	9,673	5,027	5,318	7,003
French Togoland .. ..	1,662	2,549	4,474	3,385	3,493	7,154	957
French West Africa ..	1,723	1,385	970	(a)	1,299	929	3,095
Madagascar .. ..	—	860	2,344	(a)	519	4,201	9,032
Morocco (French) .. ..	14,747	1,488	1,660	7,583	7,409	3,702	(a)
Morocco (Spanish) .. ..	(a)	(a)	6,034	5,488	8,067	5,092	(a)
Mozambique .. ..	8,234	5,077	1,956	2,963	5,121	3,332	3,801
Portuguese Guinea .. ..	968	1,573	499	1,528	1,131	808	(a)
Réunion .. ..	680	652	494	778	969	(a)	1,037
S. Thomé and Príncipe ..	149	252	461	(a)	(a)	(a)	(a)
Costa Rica .. ..	4	11	19	104	191	(a)	(a)
Cuba (total imports) ..	9,747	7,897	5,597	5,213	(a)	(a)	(a)
French West Indies—							
Guadeloupe .. ..	2,234	1,543	1,758	1,796	1,518	(a)	(a)
Martinique .. ..	1,281	1,322	4,530	1,909	1,216	2,341	1,916
Guatemala .. ..	(a)	(a)	(a)	(a)	(a)	1,478	954
Mexico .. ..	2,590	4,243	7,888	1,307	1,791	(a)	(a)
Nicaragua (total imports)	144	372	785	152	370	251	(a)
St. Pierre and Miquelon ..	192	—	—	8,053	3,296	4,120	7,143
United States .. ..	6,923	688	4,954	4,065	3,797	1,704	5,019
Argentina—							
Rock-salt .. ..	160	414	197	—	217	(a)	(a)
Sea-salt .. ..	306	311	—	—	—		
Refined salt .. ..	187	151	151	100	129		
Brazil (total imports)—							
Common salt .. ..	95	53,127	99,541	29,845	23,463	15,303	(a)
Refined salt .. ..	14	1,228	9,956	5,474	1,040	890	(a)
Chile .. ..	184	87	204	—	147	(a)	(a)
Colombia .. ..	1,216	1,039	(a)	(a)	291	(a)	(a)
French Guiana .. ..	276	(a)	242	294	364	(a)	(a)
Peru .. ..	122	306	236	69	209	(a)	(a)
Uruguay—							
Refined salt .. ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Rock-salt .. ..	(a)	103	15				
Sea-salt .. ..	(a)	26,904	50,486				
French Indo-China .. ..	(a)	(a)	(a)	(a)	3,622	9,507	(a)
Iran (c)—							
Common salt .. ..	1,875	556	(a)	(a)	1,535	2,261	(a)
Refined salt .. ..	11	13	(a)	(a)	33	13	(a)
Iraq .. ..	12	5	5	5	25	(a)	(a)
Japan .. ..	1,558,336	1,387,918	838,429	444,589	296,298	824,503	1,165,214
Korea .. ..	(a)	(a)	(a)	(a)	11,747	95,430	114,261
Syria and Lebanon .. ..	3,567	9,069	13,116	3,609	4,098	4,918	(a)
New Caledonia .. ..	234	702	424	(a)	907	201	424

(a) Information not available.

(b) Years ended September 10 of that stated.

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

# SILVER

## PRODUCTION OF SILVER ORE

(In terms of metal)

(Fine troy ounces)

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
Great Britain .. .. .	47,082	33,885	34,660	27,517	23,285	23,522	(a)
Bechuanaland Protectorate	1,267	1,220	1,319	1,237	1,704	1,081	233
Gold Coast (b) .. .. .	66,580	50,288	56,819	36,666	54,526	41,250	45,553
Kenya .. .. .	15,602	16,354	11,500	16,659	5,493	3,859	3,184
Nigeria .. .. .	(d) 5,200	(d) 2,100	1,079	1,106	666	2,130	4,269
Northern Rhodesia .. .. .	104	41	—	2,269	(c) 634,392	(c) 73,277	(c) 145,865
Sierra Leone (b) .. .. .	659	389	60	—	—	—	—
Southern Rhodesia .. .. .	163,776	119,322	103,776	95,975	95,168	91,901	81,404
South West Africa .. .. .	(a)	(a)	(a)	(a)	(a)	(h) 390,000	(d) 400,000
Swaziland .. .. .	—	—	—	—	—	211	124
Tanganyika Territory .. .. .	(b) 26,599	(b) 18,705	17,261	21,689	21,682	(b) 20,794	(b) 25,010
Uganda (b) .. .. .	1,127	468	306	275	205	87	56
Union of South Africa .. .. .	1,477,557	1,334,042	1,213,051	1,243,426	1,207,373	1,147,694	1,170,951
Canada .. .. .	20,695,101	17,344,569	13,627,109	12,942,906	12,544,100	12,504,018	16,109,982
Newfoundland .. .. .	1,106,115	1,258,708	1,163,206	1,076,129	1,107,827	956,052	882,263
Burma .. .. .	(f) 4,269,000	(a)	(a)	(a)	(a)	(a)	(e)
Cyprus .. .. .	38,581	17,282	4,882	—	—	87	—
India .. .. .	20,098	18,611	14,239	14,154	9,821	12,422	12,797
Australia .. .. .	14,241,811	10,329,830	9,365,726	8,076,740	9,045,280	9,527,140	10,057,519
Fiji .. .. .	28,911	19,048	9,355	29,398	26,351	33,238	29,187
New Zealand .. .. .	311,360	280,786	328,281	244,544	224,341	221,984	232,563
<b>Total .. .. .</b>	<b>42,600,000</b>	<b>31,000,000</b>	<b>26,000,000</b>	<b>23,830,000</b>	<b>25,002,000</b>	<b>25,051,000</b>	<b>29,230,000</b>
<b>FOREIGN COUNTRIES</b>							
Czechoslovakia .. .. .	(g) 740,000	(g) 740,000	(g) 675,000	(a)	(a)	(a)	(a)
Finland .. .. .	22,570	59,093	41,185	33,115	140,209	188,821	167,602
France .. .. .	364,429	310,737	240,134	350,025	535,214	474,320	494,736
Germany .. .. .	5,600,000	(a)	(a)	(a)	(a)	(a)	867,459
Italy .. .. .	554,000	355,000	15,700	29,700	311,900	512,300	(a)
Norway .. .. .	253,991	231,485	169,174	132,374	201,926	226,679	216,667
Portugal .. .. .	(a)	(a)	(a)	(a)	(a)	7,395	35,366
Roumania .. .. .	90,000	79,000	71,000	190,000	(a)	481,200	(a)
Spain .. .. .	143,714	656,407	778,000	(a)	668,993	638,192	371,547
Sweden .. .. .	1,476,426	1,306,220	1,292,299	1,135,178	1,294,935	1,088,656	1,137,943
Algeria .. .. .	18,300	15,432	48,612	14,661	39,996	48,226	(a)
Belgian Congo .. .. .	3,922,000	3,119,000	2,733,000	4,147,000	5,048,000	4,051,000	3,805,619
Morocco (French) .. .. .	84,556	85,714	65,427	107,609	117,157	375,038	386,000
Mozambique .. .. .	900	547	836	997	804	707	616
Tunis .. .. .	51,400	8,906	35,205	34,369	60,122	53,852	16,011
Costa Rica .. .. .	6,000	1,200	3,500	1,400	600	1,500	3,000

(a) Information not available.

(b) Exports.

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

(d) Estimated.

(e) Included under Foreign Countries.

(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	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
Cuba .. .. .	36,238	(b) 142,420	(b) 42,985	(b) 107,195	127,222	146,932	185,216
Honduras .. .. .	3,484,000	3,164,000	3,115,000	3,003,495	2,682,910	2,403,500	4,487,144
Mexico .. .. .	84,864,359	86,371,556	73,502,803	61,097,728	43,263,132	58,843,864	57,519,704
Nicaragua .. .. .	(c) 265,179	(c) 251,901	(c) 248,529	236,000	257,000	215,000	(b) 212,463
Salvador .. .. .	223,157	220,976	286,466	221,144	291,689	285,893	216,342
United States .. .. .	54,090,765	41,460,826	34,473,540	29,024,197	22,914,604	35,823,563	38,096,031
Argentina .. .. .	1,319,000	1,034,000	(a)	(a)	(a)	(a)	(a)
Bolivia (c) .. .. .	8,121,000	7,300,000	6,798,000	6,683,561	6,106,165	6,265,505	7,562,208
Brazil .. .. .	25,733	30,048	28,722	28,383	21,965	20,291	23,084
Chile .. .. .	906,381	1,006,677	996,548	825,438	557,333	763,130	861,962
Colombia .. .. .	246,281	209,950	197,323	168,699	152,651	110,830	108,716
Ecuador .. .. .	261,945	362,013	376,565	255,965	254,271	134,100	205,800
Peru .. .. .	16,035,150	14,659,859	15,832,567	12,997,845	12,334,249	10,782,995	9,288,777
Burma .. .. .	(e)	(e)	(e)	(e)	(e)	(e)	(f) 700,000
French Indo-China .. .. .	45	—	—	—	—	—	—
Japan .. .. .	13,012,306	6,376,553	5,029,341	562,000	1,068,691	2,071,022	2,268,235
Korea .. .. .	3,089,000	2,829,000	2,578,000	(a)	(a)	(g) 66,956	(g) 38,504
Philippine Republic .. .. .	(d) 231,197	(d) 26,061	(a)	17,208	3,600	6,586	150,760
Saudi Arabia .. .. .	23,369	47,768	3,514	24,144	31,307	49,805	67,819
<b>Total* .. .. .</b>	<b>207,000,000</b>	<b>185,000,000</b>	<b>160,000,000</b>	<b>130,000,000</b>	<b>107,000,000</b>	<b>136,000,000</b>	<b>140,000,000</b>
<b>WORLD'S TOTAL* .. .. .</b>	<b>250,000,000</b>	<b>216,000,000</b>	<b>186,000,000</b>	<b>154,000,000</b>	<b>132,000,000</b>	<b>161,000,000</b>	<b>170,000,000</b>

\* 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) Imports into the United States.

(c) Exports.

(d) U.S. Bureau of Mines.

(e) Included under British Countries.

(f) Year ended June 30 following that stated.

(g) South Korea only.

EXPORTS OF SILVER\*

(In terms of metal)

(Fine troy ounces)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Refined bullion .. ..	78,476	6,027	3,192	5,733	19,320,000	30,239,428	11,176,381
Malta—							
Scrap .. ..	(a)	(a)	(a)	(a)	3,400	—	1,920
Anglo-Egyptian Sudan—							
Bullion .. ..	3,300	18,600	—	—	—	—	—
Gold Coast—							
Bullion .. ..	66,600	50,300	56,800	36,700	54,500	41,250	45,553
Northern Rhodesia—							
Bullion .. ..	80	80	—	10	40	—	(a)
Sierra Leone—							
Bullion .. ..	659	389	60	—	—	—	—
Southern Rhodesia—							
Concentrates .. ..	167,000	39,000	—	—	—	—	81,000
Bullion .. ..	145,600	118,800	100,600	96,200	95,600	90,400	22,696
Tanganyika Territory—							
Bullion .. ..	26,599	18,705	17,120	21,594	21,179	20,794	25,010
Uganda—							
Bullion .. ..	1,127	468	306	275	205	87	(a)
Union of South Africa—							
Bullion .. ..	—	—	—	200	409,000	(a)	(a)
Zanzibar—							
Bullion .. ..	—	—	—	—	700	2,100	(a)
British West Indies—							
Trinidad and Tobago—							
Bullion .. ..	—	—	—	—	129	—	—
Canada—							
Ore, concentrates, etc. ..	3,535,000	2,253,000	2,390,000	2,066,000	1,658,000	2,679,000	3,221,000
Bullion .. ..	10,646,000	9,199,000	3,577,000	2,587,000	2,317,000	7,277,000	10,662,079
Burma—							
Bullion .. ..	(a)	(a)	(a)	(a)	(d) 78,257	(a)	(a)
Cyprus—							
Ore, etc. .. ..	34,600	13,300	7,600	—	—	—	—
Hong Kong—							
Bullion .. ..	(a)	(a)	(a)	(a)	6,935,000	10,002,000	4,366,400
India (b)—							
Bullion .. ..	33,643,000	1,606,000	(c) —	(c) 3,400	(c) 20,800	(c) —	(c) 210
Malaya—							
Bullion .. ..	(a)	(a)	(a)	(a)	80,000	36,700	98,700
Australia—							
Ores, concentrates and							
matte .. ..	(e) 1,655,000	(e) 858,000	(e) 1,286,000	1,143,000	457,649	1,789,983	4,484,079
Bullion .. ..	(e) 3,345,000	(e) 8,300	(e) —	19,000	228,149	2,896,826	5,385,887
Fiji—							
Bullion .. ..	25,800	23,600	10,800	25,700	16,700	34,933	40,222
New Zealand—							
Concentrates, sweepings	400	600	300	1,048	2,229	7,951	1,737
Bullion .. ..	320,000	197,000	202,000	97,516	69,288	101,485	145,436
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Bullion and scrap .. ..	} (a)	(a)	(a)	(a)	(a)	320,000	(a)
Beaten, rolled or drawn							
Czechoslovakia—							
Bullion .. ..	(a)	(a)	(a)	(a)	(a)	290,000	(a)

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

(a) Information not available.

(b) Includes trade by land as recorded.

(c) Sea-borne trade only.

(d) February to September only.

(e) Years ended June 30 of that stated.

## EXPORTS OF SILVER (Cont.)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
Denmark—							
Bullion .. .. .	3,000	6,000	—	—	52,000	22,500	83,000
Beaten, rolled or drawn	237,000	129,700	9,200	37,000	35,000	93,000	71,000
France—							
Bullion .. .. .	(a)	(a)	(a)	(a)	(a)	65,000	(a)
Beaten, rolled or drawn	498,000	112,000	—	13,500	250,000	100,000	260,000
Italy—							
Bullion, etc. .. ..	(a)	(a)	(a)	(a)	(c) 16,000	(c) 1,123,000	(a)
Netherlands—							
Bullion and scrap ..	(a)	(a)	(a)	(a)	420,000	970,000	(a)
Norway—							
Bullion .. .. .	(a)	(a)	(a)	(a)	(a)	215,000	(a)
Sweden—							
Bullion .. .. .	160,000	160,000	100,000	200,000	300,000	250,000	110,000
Switzerland—							
Bullion .. .. .	14,000	1,000	22,000	1,000	8,000	130,000	(a)
Belgian Congo—							
Bullion .. .. .	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Egypt—							
Bullion and scrap ..	2,700	—	—	(a)	(a)	(a)	(a)
Cuba—							
Bullion .. .. .	—	—	—	(a)	(a)	(a)	(a)
Honduras (b)—							
Bullion .. .. .	3,300,000	3,000,000	3,200,000	(a)	(a)	(a)	(a)
Mexico—							
Bullion, etc. .. ..	67,841,000	28,805,000	18,013,000	(a)	(a)	(a)	(a)
Nicaragua—							
Concentrates .. ..	265,000	252,000	249,000	226,000	235,000	(a)	(a)
Salvador—							
Bullion .. .. .	191,000	202,000	306,000	(a)	(a)	(a)	(a)
United States—							
Ore and base bullion ..	4,000	400,000	—	—	8,000	} 40,000,000	(a)
Refined bullion .. ..	1,400,000	34,400,000	137,300,000	98,000,000	36,000,000		
Argentina—							
Bullion .. .. .	473,000	610,000	200,000	(a)	(a)	(a)	(a)
Bolivia—							
Ores, etc. .. .. .	8,121,000	7,300,000	6,798,000	6,684,000	6,106,000	6,266,000	7,562,000
Chile—							
Ore .. .. .	90,000	90,000	(a)	(a)	(a)	(a)	(a)
Peru—							
Ores, concentrates, etc. .	1,460,000	1,697,000	3,034,000	2,025,000	1,000,000	2,680,000	(a)
Bullion .. .. .	12,618,000	11,663,000	8,349,000	6,070,000	6,006,000	5,000,000	(a)
China—							
Bullion .. .. .	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Iran—							
Bullion .. .. .	—	300,000	(a)	(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	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom—							
Ores .. .. .	3,300,000	2,400,000	847,000	259,000	542,000	2,486,000	1,786,000
Unrefined bullion ..	4,200	13,100	53,000	50	838,000	1,028,000	870,917
Refined bullion ..	8,021,000	21,703,000	36,140,000	28,873,000	32,675,000	33,711,000	7,617,058
Malta—							
Bullion .. .. .	(a)	(a)	(a)	200	6,600	9,292	8,189
Anglo-Egyptian Sudan—							
Bullion .. .. .	868	—	—	—	—	6,300	—
Gold Coast—							
Bullion .. .. .	200	15	—	—	2	2,440	1,437
Kenya and Uganda—							
Bullion .. .. .	—	—	—	—	—	180	841
Nigeria—							
Bullion .. .. .	—	—	—	—	10,388	17,901	10,538
Sierra Leone—							
Bullion .. .. .	—	—	—	—	195	186	—
Tanganyika Territory—							
Bullion .. .. .	—	—	—	—	—	—	—
Union of South Africa—							
Bullion .. .. .	226,000	183,000	153,000	148,000	130,000	(a)	(a)
Zanzibar—							
Bullion .. .. .	—	—	—	—	200	2,100	(a)
Canada—							
Bullion .. .. .	31,000	—	—	1,800	1,840,000	71,500	69,960
British Guiana—							
Bullion .. .. .	—	—	3,400	—	760	230	(a)
British West Indies—							
Trinidad and Tobago—							
Bullion .. .. .	8,000	—	—	—	2,000	2,715	158
Ceylon—							
Bullion .. .. .	41,000	38,900	11,000	9,000	23,000	26,000	124,000
Cyprus—							
Bullion .. .. .	7,800	3,000	—	6,000	1,200	19,300	5,800
Hong Kong—							
Bullion .. .. .	(a)	(a)	(a)	(a)	12,000	1,200	147,000
India (b)—							
Bullion .. .. .	5,158,000	13,021,000	482,205,000	62,974,702	46,945,674	39,956,850	(d) 4,234,531
Malaya—							
Bullion .. .. .	(a)	(a)	(a)	(a)	130,000	30,600	—
Palestine—							
Bullion .. .. .	4,400	—	—	62,300	19,300	(a)	(a)
Australia—							
Bullion .. .. .	(c) 120,000	(c) 19,000	(c) 7,000	6,000	19,000	44,000	40,327
Fiji—							
Bullion .. .. .	(a)	(a)	(a)	(a)	2,800	530	122
New Zealand—							
Bullion .. .. .	7,500	100	900	11,100	3,000	2,771	3,664
<b>FOREIGN COUNTRIES</b>							
Belgium-Luxemburg E.U.—							
Bullion and scrap ..	}	(a)	(a)	(a)	(a)	1,590,000	(a)
Beaten, rolled or drawn							
Bulgaria—							
Bullion, etc. .. .. .	12,000	17,000	9,500	(a)	(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.

## IMPORTS OF SILVER (Cont.)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
Czechoslovakia—							
Bullion and scrap ..	(a)	(a)	(a)	(a)	—	60,000	—
Denmark—							
Bullion .. .. .	93,000	74,000	51,000	64,000	2,135,000	749,000	809,000
Beaten, rolled or drawn	96,000	71,000	51,500	38,400	1,180,000	499,000	262,000
Finland—							
Bullion, etc. .. ..	14,000	33,000	24,000	11,000	15,000	14,000	15,000
France—							
Bullion .. .. .	(a)	(a)	(a)	(a)	(a)	150,000	(a)
Beaten, rolled or drawn	11,000	11,000	600	6,000	10,000	37,000	54,000
Italy—							
Bullion, etc. (b) .. ..	1,327,000	817,000	—	—	12,900	1,122,000	(a)
Netherlands—							
Bullion and scrap ..	(a)	(a)	(a)	(a)	1,600,000	(a)	(a)
Norway—							
Bullion .. .. .	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Beaten, rolled or drawn	3,400	2,000	20	20	568,000	804,000	507,000
Portugal—							
Bullion .. .. .	(a)	(a)	(a)	(a)	—	(a)	(a)
Sweden—							
Bullion .. .. .	260,000	1,900,000	1,400,000	900,000	4,000,000	1,500,000	2,100,000
Switzerland—							
Bullion .. .. .	600,000	2,800,000	1,500,000	3,000,000	3,000,000	1,500,000	(a)
Algeria—							
Bullion, etc. .. ..	322,000	130	400	8,600	6,200	13,400	(a)
Egypt—							
Bullion and scrap ..	3,400	11,000	354,000	—	(a)	—	(a)
Tunis—							
Beaten, rolled or drawn	—	—	—	—	—	—	100
United States—							
Ore and base bullion ..	35,000,000	40,600,000	37,700,000	33,050,441	26,000,000	} 91,000,000	(a)
Refined bullion .. ..	73,100,000	22,300,000	13,700,000	17,560,165	35,000,000		
Argentina—							
Bullion .. .. .	700	—	—	(a)	(a)	(a)	(a)
Brazil—							
Bullion .. .. .	410,000	940,000	435,000	1,344,000	1,360,000	38,000	(a)
Chile—							
Bullion .. .. .	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Colombia—							
Bullion .. .. .	200,000	485,000	610,000	(a)	1,390,000	(a)	(a)
Uruguay—							
Bullion .. .. .	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Venezuela—							
Bullion .. .. .	5,000	100	(a)	(a)	(a)	(a)	(a)
Iran (c)—							
Bullion .. .. .	3,000	4,000,000	(a)	(a)	(a)	(a)	(a)
Syria and Lebanon—							
Bullion .. .. .	190,000	160,000	400,000	(a)	(a)	(a)	(a)
Turkey—							
Bullion, etc. .. ..	(a)	(a)	300	—	60	1,500	2,700,000

(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	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Celestite .. .. .	2,247	—	—	—	—	4,824	(a)
Australia—							
Celestite .. .. .	32	—	—	—	—	—	—
FOREIGN COUNTRIES							
Spain—							
Strontianite .. ..	4,677	10,533	9,917	—	—	—	—
Tunis—							
Celestite .. .. .	} 20	—	—	59	{ 44	44	15
Strontianite .. ..							
Mexico—							
Celestite .. .. .	(e) 6,000	(d) 8,806	(d) 2,381	(d) 2,051	(d) 1,614	(e) 3,515	(e) 995
United States (b)—							
Celestite .. .. .	3,608	6,755	2,683	2,846	217	—	—
Argentina—							
Celestite .. .. .	—	—	—	(a)	(a)	(a)	(a)

Strontianite is also produced in Germany.  
(a) Information not available.  
(b) Shipments.  
(c) Estimated.  
(d) Exports.  
(e) Imports into the United States from Mexico.

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

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Celestite (d) .. ..	2,395	1,220	—	—	2,259	3,879	5,395
FOREIGN COUNTRIES							
France—							
Strontium compounds ..	20	20	14	3	13	9	(a)
Germany (b)—							
Strontianite and witherite	146	77	(c) 62	(a)	(a)	(a)	(a)
Strontium compounds ..	15	103	(c) 3	(a)	(a)	(a)	(a)
Spain—							
Strontianite (d) .. ..	1,317	3,977	2,341	602	—	5,211	13,048
Tunis—							
Strontium minerals ..	(a)	(a)	(a)	(a)	(a)	(a)	103
Mexico—							
Celestite .. .. .	(d) 5,536	8,806	2,381	2,051	1,614	(d) 3,515	(d) 995
United States—							
Strontium nitrate ..	302	243	248	199	(a)	(a)	(a)
Other compounds ..	43	75	31	13	(a)	(a)	(a)

(a) Information not available.  
(b) Celestite recorded with barytes.  
(c) January to July only.  
(d) Imports into the United States from the country stated.

IMPORTS OF STRONTIUM MINERALS, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES							
France—							
Celestite .. .. .	(a)	—	—	—	15	10	(a)
Strontium compounds ..	1	5	6	—	13	11	(a)
Mexico—							
Strontium carbonate ..	—	—	—	43	—	(a)	(a)
United States—							
Strontianite and celestite	9,248	15,072	5,172	3,296	4,024	12,604	19,438
Strontium compounds ..	—	—	—	—	(a)	13	1
Chile—							
Strontium compounds ..	(10 cwt.)	(1 cwt.)	(4 cwt.)	(9 cwt.)	(12 cwt.)	(a)	(a)
Turkey—							
Strontium compounds ..	(a)	(a)	1	1	—	1	1

(a) Information not available.





PRODUCTION OF SULPHUR (Cont.)

Producing Country and Description	Estimated Sulphur Content													
	1942	1943	1944	1945	1946	1947	1948	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>														
Spain—														
Sulphur rock ..	32,563	41,184	46,515	35,821	29,396	26,302	18,494	6,500	8,000	9,500	(a)	(a)	(a)	(a)
Refined sulphur (e) ..	45,769	42,096	37,800	21,950	37,521	23,204	33,648	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Sweden—														
Sulphur ..	8,821	14,599	16,502	24,291	21,395	13,982	12,138	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Egypt—														
Sulphur ..	128	201	893	285	—	—	—	126	197	830	(a)	—	—	—
United States—														
Crude sulphur ..	3,460,686	2,538,786	3,218,158	3,753,188	3,859,642	4,441,214	4,869,210	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Smelter gas (b) ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)	190,000	210,000	284,000	275,000	234,000	237,000	187,000
By-product sulphur (c) ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)	5,125	5,101	19,096	25,184	34,990	43,427	44,369
Hydrogen sulphide (c) ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)	19,097	17,591	21,964	19,308	18,366	20,631	25,792
Argentina—														
Refined sulphur ..	2,148	10,649	11,092	9,072	(a)	(a)	(a)	2,137	10,543	(a)	(a)	(a)	(a)	(a)
Bolivia (exports)—														
Refined sulphur ..	3,627	7,078	6,049	607	464	2,251	2,685	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Ecuador—														
Sulphur rock ..	(a)	60	13	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Guatemala—														
Sulphur ..	10	10	—	—	—	—	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Chile—														
Refined sulphur ..	22,311	25,643	25,171	20,431	30,672	29,617	(a)	22,200	25,515	25,045	20,411	30,641	29,587	(a)
Peru—														
Sulphur ..	1,125	564	1,412	1,197	363	778	971	(a)	(a)	(a)	(a)	(a)	(a)	(a)
China—														
Sulphur ..	2,176	2,500	2,229	2,000	(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)
Japan—														
Refined sulphur ..	165,537	149,836	75,359	37,333	21,046	28,735	40,120	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Turkey—														
Refined sulphur ..	3,051	3,326	3,348	4,088	2,970	2,620	2,556	3,020	3,293	3,314	4,047	2,940	2,594	2,550

(a) Information not available.  
 (b) Estimated sulphur content of gas driven off in the smelting of zinc and copper concentrates, chiefly used in acid making.  
 (c) Produced in treatment of industrial gases.  
 (d) Estimated.  
 (e) Derived partly from sulphur rock above but in the main recovered from pyrites.

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.  
 (c) Produced in treatment of industrial gases.  
 (d) Estimated.  
 (e) Derived partly from sulphur rock above but in the main recovered from pyrites.

EXPORTS OF SULPHUR

(Domestic Produce)

(Long tons)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom .. ..	529	141	87	678	2,553	4,383	3,893
Union of South Africa ..	13	273	52	165	281	(a)	(a)
Hong Kong (including re-exports) .. ..	(a)	(a)	(a)	(a)	419	778	1,300
Malaya (including re-exports) .. ..	(a)	(a)	(a)	(a)	278	54	32
Palestine .. .. .	418	49	2	—	—	778	(a)
<b>FOREIGN COUNTRIES</b>							
Belgium-Luxemburg E.U.	390	50	376	(a)	(a)	(a)	1,668
France—							
Rock .. .. .	10	4	—	4,876	863	16	33
Crude .. .. .	5,608	—	—	1,738	1,772	1,230	3,758
Refined lump .. ..	1,364	—	—	2,145	7,995	4,767	9,243
Flowers of sulphur ..	5,613	—	—	—	857	8,023	1,073
Precipitated sulphur ..	873	1	—	—	549	1,737	700
Germany—							
Sulphur, etc. .. ..	17,944	30,550	(e) 15,282	(a)	(a)	(a)	(a)
Italy .. .. .	(b) 120,000	(d) 50,000	(d) 50,000	(a)	(a)	21,481	81,705
Norway .. .. .	55,857	80,038	58,510	18,623	60,761	71,223	53,385
Portugal .. .. .	(a)	—	356	385	199	8	40
Spain—							
Flowers of sulphur, etc.	2,002	3,035	1,488	2,564	2,020	1,982	(a)
Sweden .. .. .	—	—	—	2,492	291	180	128
Algeria—							
Rock .. .. .	12,913	5,894	11,505	—	4,557	—	—
Refined and flowers of sulphur .. ..	—	—	352	116	57	—	—
Mexico .. .. .	1,821	2,485	986	1,234	3,033	(a)	(a)
United States—							
Crude .. .. .	568,249	657,393	653,686	918,691	1,189,072	1,299,060	1,262,913
Refined and flowers of sulphur .. ..	17,030	25,079	21,546	23,964	56,748	50,477	32,630
Argentina .. .. .	282	11	—	—	—	(a)	(a)
Bolivia .. .. .	3,627	7,078	6,049	607	464	2,251	2,685
Chile .. .. .	12,798	16,614	6,589	10,706	4,646	(a)	(a)
Peru .. .. .	876	295	610	541	369	(a)	(a)
Japan .. .. .	18,058	17,183	7,140	2,094	2,437	1,962	650

(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	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom .. ..	124,993	268,874	197,231	198,154	246,346	304,701	348,592
Malta—							
Flowers of sulphur ..	(a)	(a)	(a)	—	(£5,223)	(£2,511)	(£3,902)
Kenya and Uganda .. ..	(a)	(a)	(a)	(a)	(a)	(a)	719
Mauritius .. ..	59	300	550	—	40	409	(a)
Northern Rhodesia .. ..	—	—	145	3	28	167	(a)
South West Africa .. ..	62	43	34	89	166	(a)	(a)
Southern Rhodesia .. ..	9	4	5	(a)	5	13	17
Union of South Africa—							
Rock-sulphur .. ..	} 21,655	14,139	33,086	33,728	29,438	(a)	(a)
Flowers of sulphur .. ..							
British Guiana .. ..	5	4	20	2	2	1	8
Canada .. ..	226,894	195,113	210,674	222,184	244,198	322,665	316,627
Newfoundland (b) .. ..	(a)	(a)	10,047	11,072	5,379	11,444	13,041
Ceylon .. ..	27	416	1,041	612	884	951	639
Cyprus .. ..	100	51	152	501	423	799	936
Hong Kong (total imports)	(a)	(a)	(a)	(a)	829	1,291	2,185
India (total imports) .. ..	14,239	18,720	21,712	10,728	37,909	37,520	37,224
Malaya (total imports) .. ..	(a)	(a)	(a)	(a)	235	257	61
Palestine .. ..	277	1,921	4,407	2,083	1,167	(a)	(a)
Australia .. ..	30,177	17,965	38,182	67,074	72,939	110,634	144,084
New Zealand .. ..	24,758	22,386	65,800	51,872	43,632	79,006	54,393
Irish Republic .. ..	136	83	199	131	154	229	148
<b>FOREIGN COUNTRIES</b>							
Austria .. ..	(a)	(a)	(a)	(a)	(a)	7,788	2,559
Belgium-Luxemburg E.U.	10,681	7,966	1,951	(a)	(a)	(a)	85,241
Bulgaria .. ..	1,580	17	17	112	647	(a)	(a)
Czechoslovakia—							
Crude and ground .. ..	(a)	(a)	(a)	(a)	12,731	7,004	(d) 16,818
Flowers of sulphur .. ..	(a)	(a)	(a)	(a)	10	188	(d) 91
Denmark .. ..	404	976	998	88	1,014	877	1,625
Finland (total imports) .. ..	6,733	10,062	7,554	2,992	20,635	16,111	20,691
France—							
Rock .. ..	—	—	(a)	—	31,995	38,472	280
Crude .. ..	25,181	15,399	6,188	123,549	155,617	136,823	115,676
Refined lump .. ..	—	493	877	2,441	445	398	—
Flowers of sulphur .. ..	—	—	—	89	1	85	—
Precipitated .. ..	226	212	118	8	—	4	8
Germany—							
Sulphur, etc. .. ..	99,731	71,223	(c) 43,195	(a)	(a)	(a)	(a)
Greece .. ..	(a)	(a)	(a)	6,193	3,412	1,732	(a)
Iceland .. ..	—	—	—	1	1	(a)	(a)
Netherlands .. ..	894	318	(a)	(a)	1,665	5,688	4,993
Norway .. ..	74	104	82	47	60	43	48
Portugal—							
Crude .. ..	—	1	2,500	4,871	1	300	700
Flowers of sulphur .. ..	1	—	6	12	32	153	113
Other sulphur .. ..	1	1	—	—	4	15	21
Spain—							
Crude .. ..	868	—	—	9,801	5,021	20,692	1,968
Flowers of sulphur .. ..	1	2	—	—	57	44	79
Sweden .. ..	31,073	28,987	8,551	9,414	49,654	54,458	54,795

(a) Information not available.

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

(c) January to July only.

(d) January to October only.

## IMPORTS OF SULPHUR (Cont.)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
Switzerland—							
Crude and ground ..	3,209	7,015	1,010	15,033	18,280	23,780	44,136
Flowers of sulphur ..	498	88	—	4	259	190	130
Algeria—							
Rock .. .. .	10	—	—	28	98	—	98
Crude .. .. .	8,905	—	279	19,509	24,793	14,584	9,743
Refined .. .. .	943	3,358	120	1,902	8,932	3,208	7,096
Flowers of sulphur ..	4,254	75	—	—	7	5,212	1,027
Precipitated .. .. .	797	—	—	6	1,433	1,625	637
Angola .. .. .	69	41	20	50	50	(a)	(a)
Belgian Congo .. .. .	(a)	147	—	93	(a)	(a)	(a)
Egypt .. .. .	2,124	(b)	2,425	2,746	2,337	2,725	3,995
Madagascar .. .. .	(a)	—	59	226	15	72	75
Morocco (French)—							
Crude .. .. .	128	—	29	149	221	220	(a)
Refined .. .. .	1,196	13	603	242	1,871	1,082	(a)
Morocco (Spanish) ..	(a)	(a)	45	105	50	55	(a)
Mozambique .. .. .	375	256	443	639	344	419	302
Tunis—							
Crude .. .. .	10,321	494	8,563	6,574	15,151	3,173	8,225
Refined and flowers of sulphur .. .. .	766	—	8	—	560	209	5
Costa Rica .. .. .	10	26	61	44	6	(a)	(a)
Cuba (total imports) ..	100	74	611	1,301	(a)	(a)	(a)
Mexico .. .. .	5,964	3,760	3,923	4,071	3,229	(a)	(a)
United States .. .. .	25,632	16,658	32	33	35	15	38
Argentina—							
Crude .. .. .	26,641	35,965	26,482	30,114	23,561	(a)	(a)
Refined and flowers of sulphur .. .. .	98	506	14	444	232	(a)	(a)
Brazil (total imports) ..	23,585	31,935	41,478	19,070	26,868	41,944	31,353
Chile .. .. .	331	226	250	1	3	(a)	(a)
Colombia .. .. .	502	804	489	(a)	1,277	(a)	(a)
Peru .. .. .	51	122	249	341	472	(a)	(a)
Uruguay .. .. .	(a)	6,294	3,325	(a)	(a)	(a)	(a)
China .. .. .	(a)	(a)	(a)	(a)	2,530	3,112	(a)
Iran (c) .. .. .	1,337	4,714	(a)	(a)	1,037	39	(a)
Syria and Lebanon ..	257	88	299	546	473	626	(a)
Turkey—							
Refined and flowers of sulphur .. .. .	(a)	(a)	399	994	3,741	6,579	2

(a) Information not available.

(b) Excess of re-exports

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

**TALC**  
**PRODUCTION OF TALC**  
(Long tons)

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
Great Britain .. ..	2,196	2,771	2,784	2,136	3,383	3,326	(a)
Kenya (b) .. ..	(a)	(a)	(a)	66	(a)	20	10
Union of South Africa ..	1,954	5,260	2,830	1,916	3,622	2,655	4,820
Canada (shipments) ..	26,668	23,360	29,104	24,186	26,208	23,847	23,214
Newfoundland (c) ..	1,555	2,400	220	700	650	216	—
India .. ..	31,752	15,869	21,392	22,511	23,472	23,240	(d) 18,002
Australia .. ..	2,834	3,355	4,134	3,142	5,745	5,835	6,101
New Zealand .. ..	15	62	25	—	—	—	—
<b>FOREIGN COUNTRIES</b>							
Austria .. ..	(a)	(a)	44,036	(a)	21,094	24,814	46,427
France .. ..	49,358	47,540	26,300	40,008	62,349	68,683	92,649
Germany (Bavaria) ..	13,313	(a)	(a)	(a)	(a)	(a)	(a)
Greece .. ..	—	—	—	—	500	200	(a)
Italy .. ..	79,191	74,584	37,419	39,231	35,782	47,613	69,031
Norway .. ..	34,951	35,405	(d) 21,218	(d) 15,277	41,648	53,785	56,322
Portugal .. ..	—	—	—	—	—	—	21
Roumania .. ..	3,004	1,584	(a)	(a)	(a)	(a)	(a)
Spain .. ..	24,471	9,590	7,252	15,330	19,227	20,505	18,332
Sweden .. ..	6,056	5,251	5,425	9,212	13,788	10,541	11,518
Egypt .. ..	1,845	2,022	4,197	3,807	4,684	4,557	5,434
Madagascar .. ..	1	38	1	—	—	—	—
United States (e) ..	360,537	389,508	373,418	370,045	411,209	461,119	471,913
Argentina .. ..	4,695	3,501	3,367	2,639	(a)	(a)	(a)
Brazil .. ..	2,040	1,903	4,888	2,665	4,117	9,350	10,573
Chile .. ..	250	272	920	469	(a)	(a)	257
Uruguay .. ..	(f) 3,562	1,575	2,221	(a)	1,789	2,633	2,937
French Indo-China ..	256	354	520	—	—	—	—
Japan (e) .. ..	365,021	326,343	301,720	196,499	109,800	160,552	220,919
Korea (c) .. ..	(a)	(d) 34,811	40,500	(d) 11,960	(a)	(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 Kisiu stone were produced (long tons): 1943—62; 1944—121 (including talc); 1945—133; 1946—482; 1947—272; 1948—312.

(c) Pyrophyllite.

(d) Incomplete.

(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 tons; 1948—96,326 tons.

(f) Exports.

EXPORTS OF TALC

(Domestic Produce)

(Long tons)

Exporting Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom .. ..	99	49	24	62	—	—	—
Canada .. .. .	14,335	10,147	10,643	6,574	5,716	5,185	4,511
Newfoundland (b) .. (c)	693	1,151	354	80	261	206	—
India .. .. .	6,211	2,702	2,868	7,463	5,354	3,623	3,683
Australia .. .. .	(a)	(a)	(a)	(a)	51	1	5
<b>FOREIGN COUNTRIES</b>							
Austria .. .. .	(a)	(a)	(a)	(a)	(a)	6,178	19,657
Belgium-Luxemburg E.U.	23	—	—	(a)	(a)	(a)	68
Czechoslovakia .. ..	(a)	(a)	(a)	(a)	148	165	(d) 153
France .. .. .	16,087	6,808	4,103	11,467	24,628	26,633	23,324
Germany .. .. .	10,128	11,285	(e) 4,175	(a)	(a)	(a)	(a)
Italy .. .. .	19,149	(a)	(a)	(a)	(a)	22,974	31,925
Norway .. .. .	25,715	23,904	18,143	16,435	24,845	35,010	37,624
Egypt .. .. .	11,250	1,449	1,617	680	—	—	—
United States .. ..	8,255	9,543	9,562	10,102	14,619	15,676	14,578
Chile .. .. .	1	5	8	—	—	—	—
Uruguay .. .. .	3,562	1,611	1,832	(a)	(a)	(a)	(a)

(a) Information not available.

(b) Years ended March 31 following that stated.

(c) Nine months ended March 31, 1943.

(d) January to October only.

(e) January to July only.

## IMPORTS OF TALC

(Less Re-exports)

(Long tons)

Importing Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom—							
Unground .. ..	229	713	1,009	2,015	657	1,069	814
Ground .. ..	12,935	9,581	7,258	6,361	12,120	22,101	19,585
Canada .. ..	4,858	5,759	5,441	5,704	6,015	7,565	6,947
Cyprus .. ..	(a)	(a)	—	—	(£401)	10	11
India .. ..	—	—	—	—	—	1	—
Australia .. ..	701	295	261	287	33	240	290
<b>FOREIGN COUNTRIES</b>							
Belgium-Luxemburg E.U.	5,794	2,056	363	(a)	(a)	(a)	6,409
Czechoslovakia .. ..	(a)	(a)	(a)	(a)	1,360	595	(b) 320
Denmark .. ..	2,759	3,238	2,553	3,545	5,064	5,657	5,545
Finland (total imports) ..	996	1,431	409	630	1,283	2,961	2,430
France .. ..	48	79	32	6	110	827	3,092
Germany .. ..	30,154	31,178	(c) 17,931	(a)	(a)	(a)	(a)
Netherlands .. ..	(a)	(a)	(a)	(a)	(a)	(a)	14,417
Portugal .. ..	377	255	166	44	733	349	190
Algeria .. ..	1,047	15	—	—	—	—	1,451
Belgian Congo .. ..	(a)	1	—	3	(a)	(a)	(a)
Egypt .. ..	(d) 11	—	(d) 189	(e) 26	(e) 19	(e) 119	(e) 90
Morocco (French) .. ..	495	713	1,584	213	45	10	(a)
Morocco (Spanish) .. ..	(a)	(a)	18	11	6	40	(a)
Tunis .. ..	1,463	13	26	113	315	434	127
Mexico .. ..	516	464	613	708	1,429	(a)	(a)
United States .. ..	7,838	5,851	7,506	5,982	16,472	15,724	16,378
Argentina .. ..	4,267	1,723	273	45	175	(a)	(a)
Brazil .. ..	45	8	71	189	79	527	(a)
Chile .. ..	31	57	17	38	52	(a)	(a)
Colombia .. ..	94	340	188	(a)	189	(a)	(a)
Peru .. ..	69	122	195	80	24	(a)	(a)
Venezuela .. ..	38	116	—	100	200	249	(a)
Japan (total imports) ..	(a)	(a)	(a)	(a)	583	2,473	958
Syria and Lebanon .. ..	93	63	63	10	71	(a)	(a)

(a) Information not available.

(b) January to October only.

(c) January to July only.

(d) Excess of re-exports.

(e) Total imports.

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

Producing Country	1942	1943	1944	1945	1946	1947	1948	
BRITISH COUNTRIES								
Nigeria—								
Tantalite .. ..	—	2	12	13	1	4	4	
Columbite .. ..	865	802	2,055	1,571	1,550	1,286	1,096	
Southern Rhodesia—								
Tantalite .. ..	12	6	5	7	8	12	8	
South West Africa—								
Tantalite concentrates .. ..	(40 lbs.)	(2 lbs.)	—	—	—	(500 lbs.)	(17 lbs.)	
Tin-tantalite .. ..	(161 lbs.)	(560 lbs.)	1	—	—	—	—	
Uganda—								
Tantalite .. ..	}	(b) (c) 7	{ (c) 1	}	8	{ — 1	} (d) 2 (d) 1	
Columbite .. ..								{ (c) 5
Bismutotantalite .. ..								(c) 3 (c)(670 lbs.)
Union of South Africa—								
Tantalite and columbite	—	1	3	(776 lbs.)	—	—	—	
Australia—								
Tantalite concentrates ..	1	12	11	(1,050 lbs.)	(806 lbs.)	(112 lbs.)	5	
FOREIGN COUNTRIES								
Belgian Congo—								
Tantalite and columbite concentrates .. ..	125	149	289	195	165	155	143	
Tin-tantalite-columbite	—	—	—	—	—	286	513	
French Equatorial Africa—								
Tantalite and columbite	—	—	—	2	1	1	2	
Mozambique—								
Columbite .. ..	5	5	5	2	(400 lbs.)	—	—	
United States—								
Tantalite .. ..	(200 lbs.)	4	3	2	2	1	(500 lbs.)	
Columbite .. ..	—	3	1	1	—	—	(100 lbs.)	
Argentina—								
Tantalite and columbite	3	1	(200 lbs.)	(1,000 lbs.)	(a)	(a)	(a)	
Bolivia (exports)—								
Columbite .. ..	—	—	—	—	3	—	—	
Brazil (exports)—								
Tantalite .. ..	112	178	198	30	44	32	4	
Columbite .. ..	1	—	52	(a)	7	—	5	

(a) Information not available.

(b) Tin-tantalite-columbite.

(c) Exports.

(d) In addition Tin-columbite produced amounted to 329 lbs. and 210 lbs. in 1947 and 1948 respectively.



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

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom—							
Tantalum .. ..	—	—	—	—	(5 lbs.)	(1 lb.)	4
Nigeria—							
Tantalite .. ..	—	2	13	14	7	3	2
Columbite .. ..	960	831	1,567	1,975	1,438	1,290	1,239
South West Africa—							
Tantalite .. ..	—	1	—	(a)	(a)	(a)	(a)
Tin-tantalite concentrates	—	1	1	(a)	(a)	(a)	(a)
Southern Rhodesia—							
Tantalite .. ..	8	12	5	5	7	7	11
Uganda—							
Tantalite .. ..	}	(d)	7	1	2	4	}
Columbite .. ..							
Bismutotantalite .. ..	—	—	3	(670 lbs.)	—	—	—
Australia—							
Tantalite .. ..	(c) 13	(c) —	(c) 2	(c) 12	1	4	4
<b>FOREIGN COUNTRIES</b>							
Belgian Congo—							
Tantalite and columbite	(b) 155	80	168	208	(b) 117	170	94
United States—							
Tantalite .. ..	—	—	—	(11 lbs.)	(a)	—	(60 lbs.)
Columbite .. ..	—	—	—	2	(a)	5	(660 lbs.)
Bolivia—							
Columbite .. ..	—	—	—	—	3	—	—
Brazil—							
Tantalite .. ..	112	178	198	30	44	32	4
Columbite .. ..	(1,074 lbs.)	—	52	—	7	—	5

- (a) Information not available.  
 (b) Imports from Belgian Congo into the United States.  
 (c) Year ended June 30 of year stated.  
 (d) Tin-tantalite-columbite.

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom—							
Tantalite and columbite	(a)	(a)	(a)	(a)	(a)	292	329
Tantalum powder, sheet, etc. .. ..	(161 lbs.)	(233 lbs.)	(15 lbs.)	(226 lbs.)	(265 lbs.)	(170 lbs.)	(317 lbs.)
<b>FOREIGN COUNTRIES</b>							
United States—							
Tantalite .. ..	253	287	374	281	162	187	52
Columbite .. ..	787	1,063	1,645	1,887	1,083	1,260	878

- (a) Information not available.

**TIN**  
**PRODUCTION OF TIN ORE**  
*(In terms of metal)*  
(Long tons)

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
Great Britain .. .. .	1,364	1,359	1,289	993	849	820	1,281
Nigeria .. .. .	12,403	12,661	12,512	11,224	10,333	9,133	9,237
Northern Rhodesia .. .. .	2	3	6	18	6	1	—
Southern Rhodesia .. .. .	162	178	123	125	100	122	114
South West Africa .. .. .	116	146	126	184	177	146	111
Swaziland .. .. .	113	110	77	53	37	24	20
Tanganyika Territory .. .. .	(c) 191	(c) 157	144	137	127	93	95
Uganda .. .. .	(c) 283	(c) 296	(c) 281	203	202	156	176
Union of South Africa .. .. .	510	519	504	501	487	483	457
Canada (smelter) .. .. .	553	347	231	379	390	319	309
Burma .. .. .	(d) 775	(d) 775	(d) 775	(d) 775	342	1,792	(e)
Malaya .. .. .	15,748	26,000	9,309	3,152	8,432	27,026	44,815
Australia .. .. .	2,931	2,635	2,547	2,282	2,127	2,445	1,874
<b>TOTAL .. .. .</b>	<b>35,200</b>	<b>45,200</b>	<b>27,900</b>	<b>20,000</b>	<b>23,600</b>	<b>42,560</b>	<b>58,489</b>
<b>FOREIGN COUNTRIES</b>							
Germany (b) .. .. .	500	1,000	1,000	—	—	—	—
Italy .. .. .	197	160	43	35	100	50	—
Portugal .. .. .	3,949	3,082	610	581	409	555	706
Spain .. .. .	272	340	750	1,141	921	303	261
Belgian Congo (f) .. .. .	16,200	17,498	17,326	17,524	14,634	12,752	13,215
Cameroon (French) .. .. .	247	228	160	116	113	115	102
Egypt .. .. .	14	14	9	13	25	—	—
Morocco (French) .. .. .	4	11	9	8	9	—	—
Mozambique .. .. .	10	6	8	3	2	1	1
Mexico .. .. .	364	425	317	174	263	171	182
United States .. .. .	6	6	5	—	—	1	6
Argentina .. .. .	714	793	986	974	923	522	273
Brazil .. .. .	(a)	172	154	122	269	272	172
Bolivia (exports) .. .. .	38,285	40,312	38,720	42,487	37,618	32,663	37,336
Peru .. .. .	22	82	—	1	2	51	64
Burma .. .. .	(g)	(g)	(g)	(g)	(g)	(g)	1,147
China (smelter) .. .. .	7,700	3,708	2,160	3,268	1,930	3,907	1,606
French Indo-China .. .. .	1,030	653	357	86	—	—	30
Japan .. .. .	1,900	1,107	374	56	82	102	118
Netherlands East Indies .. .. .	9,938	17,632	6,753	948	6,426	15,915	30,562
Siam .. .. .	7,833	5,840	3,296	1,775	1,056	1,401	4,240
<b>Total .. .. .</b>	<b>89,200</b>	<b>93,100</b>	<b>73,100</b>	<b>69,300</b>	<b>64,780</b>	<b>68,800</b>	<b>88,900</b>
<b>WORLD'S TOTAL .. .. .</b>	<b>124,400</b>	<b>138,300</b>	<b>101,000</b>	<b>89,300</b>	<b>88,400</b>	<b>111,400</b>	<b>147,400</b>

(a) Information not available.

(b) Estimated.

(c) Exports.

(d) Average annual production during Japanese occupation.

(e) Included under Foreign Countries.

(f) Revised.

(g) Included under British Countries.

**SMELTER PRODUCTION OF TIN**

(Long tons)

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom .. .. .	37,279	31,573	28,589	27,549	29,121	28,083	(b) 31,002
Southern Rhodesia .. ..	154	161	134	117	79	121	127
Union of South Africa ..	534	862	1,150	1,032	858	601	554
Canada .. .. .	553	347	231	379	390	319	309
Malaya .. .. .	12,912	30,462	10,983	(c) 3,500	11,533	29,318	49,707
Australia .. .. .	3,024	2,565	2,442	2,359	2,225	2,371	1,885
<b>TOTAL .. .. .</b>	<b>54,456</b>	<b>65,970</b>	<b>43,529</b>	<b>34,936</b>	<b>44,206</b>	<b>60,813</b>	<b>83,584</b>
<b>FOREIGN COUNTRIES</b>							
Belgium .. .. .	—	—	—	—	1,405	12,059	10,469
Italy .. .. .	182	82	2	6	10	46	—
Netherlands .. .. .	—	—	—	—	945	8,981	16,402
Portugal .. .. .	2,081	2,098	610	101	187	373	282
Spain .. .. .	65	158	244	712	1,168	352	402
Belgian Congo .. .. .	13,933	11,790	10,583	8,530	3,533	3,076	3,875
Mexico .. .. .	319	395	286	160	263	172	79
United States .. .. .	16,168	21,489	30,884	40,475	43,468	33,292	36,703
Argentina .. .. .	709	550	653	631	777	433	254
Brazil .. .. .	(a)	102	211	169	178	220	185
China .. .. .	7,700	3,708	2,160	3,268	1,930	3,907	1,606
French Indo-China .. ..	337	389	213	14	—	—	31
Japan .. .. .	3,569	1,759	528	120	106	52	149
Netherlands East Indies ..	(c) 8,000	15,135	6,069	844	—	—	—
Siam .. .. .	—	2,352	3,535	1,652	389	141	—
<b>TOTAL .. .. .</b>	<b>53,100</b>	<b>60,000</b>	<b>56,000</b>	<b>56,700</b>	<b>54,400</b>	<b>63,100</b>	<b>70,500</b>
<b>WORLD'S TOTAL .. .. .</b>	<b>107,600</b>	<b>126,000</b>	<b>99,500</b>	<b>91,600</b>	<b>98,600</b>	<b>123,900</b>	<b>154,100</b>

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

	Long tons		Long tons
1942 .. .. .	33,900	1946 .. .. .	24,706
1943 .. .. .	33,800	1947 .. .. .	26,834
1944 .. .. .	29,100	1948 .. .. .	26,900
1945 .. .. .	31,369		

(a) Information not available.

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

(c) Estimated.

EXPORTS OF TIN

(Domestic Produce)

(Long tons)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Blocks, ingots, bars and slabs .. .. .	10,164	12,251	3,147	9,803	20,600	3,909	2,216
Soft solder .. .. .	1,503	257	470	1,122	1,840	831	1,256
Tin-foil .. .. .	297	106	189	116	365	395	278
Nigeria—							
Ore .. .. .	16,557	17,449	18,178	15,166	13,929	14,090	12,169
Southern Rhodesia—							
Ore and concentrates ..	34	8	—	22	38	28	43
Blocks, ingots and bars	58	39	11	65	23	12	12
South West Africa—							
Ore .. .. .	111	222	186	229	262	135	110
Tanganyika Territory—							
Ore and concentrates ..	265	218	170	187	181	129	133
Uganda—							
Ore .. .. .	444	393	385	287	296	189	283
Union of South Africa—							
Ore and concentrates ..	179	—	—	—	—	(a)	(a)
Bars, sheet, etc. ..	1	35	90	31	148	(a)	(a)
Burma—							
Ore and concentrates (c)	} (a)	(a)	(a)	(a)	{ (b) 96	(a)	(a)
Blocks, ingots, etc. ..							
Hong Kong (re-exports)—							
Slabs and ingots .. ..	(a)	(a)	(a)	(a)	2,006	2,588	2,080
India—							
Blocks, ingots, bars, slabs and scrap .. .. .	30	1	2	104	—	1	242
Malaya—							
Ore .. .. .	} (a)	(a)	(a)	(a)	{ 344	—	40
Ingots, blocks, bars, slabs							
Australia—							
Ore and concentrates ..	(e) 23	(e) 1	(e) 2	(e) 1	184	3	3
Ingots .. .. .	27	278	313	468	103	14	—
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Crude .. .. .	15	2	1	} 40	2,780	12,562	{ 10,356
Scrap .. .. .	—	—	—				
Sheets, wire, etc. ..	—	—	—				
Denmark—							
Crude .. .. .	16	31	1	1	8	109	218
Scrap .. .. .	—	—	—	—	—	3	2
France—							
Ore .. .. .	—	—	—	—	—	2	(a)
Pigs, bars, etc. .. ..	520	174	35	22	129	73	108
do. (alloys) .. .. .	68	601	—	3	21	126	218
Scrap .. .. .	1	245	34	—	—	1	—
Sheets and wire .. ..	4	—	—	1	10	66	123

(a) Information not available.

(b) February to September only.

(c) Excluding tin-tungsten ore.

(d) Including re-exports.

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

## EXPORTS OF TIN (Cont.)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
Germany—							
Crude, scrap and alloys	1,692	1,259	(b) 184	} (a)	(a)	(a)	(a)
Sheets and wire ..	6	33	(b) —				
Tin-foil .. .. .	5	2	(b) 3				
Italy—							
Ingots, bars, scrap, sheets, alloys, etc. .. ..	10	69	(a)	—	—	—	13
Netherlands—							
Ore .. .. .	—	—	(a)	(a)	—	—	4
Blocks .. .. .	22	4	(a)	(a)	267	4,771	12,252
Sheets, wire, etc. ..	9	—	(a)	(a)	2	25	6
Norway—							
Ingots and bars .. ..	1	69	—	25	93	119	111
Portugal—							
Ore .. .. .	10	170	(a)	—	181	317	636
Bars .. .. .	1,909	2,225	757	649	244	248	199
Spain—							
Ingots and bars .. ..	2	1	—	2	9	8	440
Sweden—							
Crude and scrap .. ..	188	18	—	—	10	—	—
Switzerland—							
Pigs, bars, slabs, sheets, alloys, etc. .. ..	—	—	—	—	6	9	8
Tin-foil .. .. .	1	—	—	—	—	18	24
Scrap .. .. .	—	—	—	—	—	19	7
Algeria—							
Ingots, scrap and alloys	2	20	41	5	974	2	—
Belgian Congo—							
Ore .. .. .	131	5,952	9,179	11,483	17,629	19,623	14,394
Ingots .. .. .	11,808	10,670	9,589	6,861	4,383	4,311	3,860
Cameroon (French)—							
Ore .. .. .	338	281	232	187	85	212	113
Morocco (French)—							
Ore .. .. .	13	—	—	—	—	20	(a)
Mozambique—							
Ore .. .. .	4	3	14	4	1	—	(a)
Mexico—							
Ores and concentrates	192	565	200	38	(a)	28	(a)
Sn content .. .. .	89	107	80	11	71	(a)	(a)
United States—							
Ingots, pigs, etc. ..	244	398	405	708	859	414	78
Scrap .. .. .	960	1,798	3,157	3,453	(a)	6,678	9,188
Tubes, sheets, foil ..	88	46	22	103	(a)	93	45
Argentina—							
Ore .. .. .	118	198	147	637	79	} (a)	(a)
Slag and ashes .. ..	583	—	—	489	2,016		
Ingots and bars .. ..	—	—	—	—	—		
Bolivia—							
Ores, concentrates, etc. (Sn content) .. ..	38,285	40,312	38,720	42,487	37,618	32,663	37,336
Peru—							
Slag (Sn content) .. ..	22	2	—	—	2	50	64
China—							
Ingots and slabs .. ..	1,062	—	136	1,560	1,535	4,050	3,850
French Indo-China—							
Ore (Sn content) .. ..	409	304	—	—	—	11	33
Ingots and scrap .. ..	(a)	(a)	(a)	(a)	(a)	(a)	94
Netherlands East Indies—							
Ore .. .. .	(a)	(a)	(a)	(a)	(a)	16,285	45,559
Siam—							
Ore (Sn content) .. ..	2,272	1,130	98	69	—	5,277	5,651

(a) Information not available.

(b) January to July only.

IMPORTS OF TIN

(Less Re-exports)

(Long tons)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Ore and concentrates ..	43,870	52,017	32,948	44,861	47,152	39,348	48,440
Blocks, ingots, bars and slabs ..	—	323	—	57	634	230	158
Soft solder .. ..	—	—	—	—	21	3	7
Anglo-Egyptian Sudan—							
Unwrought incl. scrap ..	(a)	13	52	73	15	16	24
Kenya and Uganda—							
Ore .. ..	(c) 257	(c) 231	(c) 161	(c) 171	(c) 262	(c) 134	(c) 118
Bars, plates and sheets ..	72	24	51	36	55	6	17
Southern Rhodesia—							
Blocks, ingots and bars	5	—	—	—	—	—	10
South West Africa—							
Bars, sheets, etc. ..	1	—	—	—	—	(a)	(a)
Union of South Africa—							
Ore .. ..	14	222	186	—	—	(a)	(a)
Blocks, ingots, bars, plates and sheets ..	377	37	—	6	93	(a)	(a)
Tin-foil .. ..	63	7	17	23	26	(a)	(a)
Canada—							
Blocks, pigs and bars ..	3,217	1,175	1,197	3,212	3,751	3,961	3,598
Tin-foil .. ..	151	370	726	61	3	4	1
Newfoundland (d)—							
Bars, sheets, ingots, etc.	(a)	(a)	112	219	254	402	154
Aden—							
Blocks, ingots, etc. ..	1	—	—	38	—	—	12
Burma—							
Blocks, ingots, etc. ..	(a)	(a)	(a)	(a)	(e) 10	(a)	(a)
Ceylon—							
Ingots, slabs, etc. ..	35	6	44	56	—	50	15
Plates and sheets ..	445	—	18	—	620	26	89
Tin solder .. ..	16	14	22	81	10	17	32
Cyprus—							
Ingots and bars .. ..	4	—	8	11	10	9	19
Hong Kong (total imports)—							
Slabs and ingots ..	(a)	(a)	(a)	(a)	2,069	2,567	2,969
India—							
Blocks, ingots, bars and slabs ..	532	(c) 233	(c) 5,383	(c) 676	341	575	582
do. (Government stores)	35	—	—	5	50	757	200
Malaya (b)—							
Ore .. ..	(a)	(a)	(a)	(a)	{ 654	4,559	4,848
Ingots, blocks, bars, slabs					{ 106	180	167
Palestine—							
Ingots and bars .. ..	158	4	49	70	103	(a)	(a)
Tin-foil .. ..	99	—	—	1	11	(a)	(a)
Australia—							
Ingots .. ..	—	—	—	—	—	300	276
New Zealand—							
Ingots, etc. .. ..	20	425	431	621	74	266	425
Irish Republic—							
Ingots, bars, slabs, etc.	8	13	10	15	31	40	47
Soft solder .. ..	49	83	67	95	60	144	166
Tin-foil .. ..	6	—	—	2	90	54	33

(a) Information not available.

(b) Total imports.

(c) Excess of re-exports. In the case of Kenya and Uganda the excess is accounted for by the re-export of ore of Tanganyika origin shipped via the port of Mombasa.

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

(e) February to September only.

## IMPORTS OF TIN (Cont.)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Ore .. .. .	—	—	—	(a)	(a)	15,669	14,987
Crude .. .. .	} 5	44	18	} 2,287	3,612	2,553	} 1,783
Scrap .. .. .							
Sheets, wire, etc. ..							
Bulgaria—	2	—	—				10
Crude, bars, sheets, scrap, etc. .. .. .	71	92	62	104	9	(a)	(a)
Czechoslovakia—							
Crude, scrap and alloys	(a)	(a)	(a)	(a)	138	1,336	(d) 1,203
Denmark—							
Crude .. .. .	81	50	55	228	659	662	706
Scrap .. .. .	1	35	2	—	—	—	—
Sheets, wire, etc. ..	4	4	2	—	12	7	5
Tin-foil .. .. .	1	—	—	—	23	22	6
Finland (total imports)—							
Ingots, bars and scrap ..	117	69	41	17	349	376	437
Tin solder .. .. .	6	26	12	—	24	32	46
France—							
Ore .. .. .	—	—	(a)	—	—	327	(a)
Pigs, bars, etc. .. .. .	144	208	1	3,193	6,910	9,300	7,618
do. (alloyed with antimony) .. .. .	1	1	—	1	51	35	563
Scrap .. .. .	1	—	2	—	116	209	215
Sheets and wire .. .. .	2	4	1	6	1	3	8
Germany—							
Ore .. .. .	494	259	(b) —	} (a)	(a)	(a)	(e) 1,844
Crude, scrap and alloys	6,022	3,281	(b) 2,845				
Sheets and wire .. .. .	—	—	(b) —				
Tin-foil .. .. .	11	1	(b) —				
Greece .. .. .	(a)	(a)	(a)	—	104	(a)	(a)
Italy—							
Ingots, bars, scrap and alloys .. .. .	1,752	1,850	(a)	—	581	2,729	1,160
Sheets, tubes, wire and alloys .. .. .	—	—	(a)	—	—	22	16
Netherlands—							
Ore .. .. .	—	—	(a)	(a)	1,325	15,852	24,339
Blocks .. .. .	17	138	(a)	(a)	777	859	384
Sheets, wire, etc. ..	—	—	(a)	(a)	2	—	—
Norway—							
Crude .. .. .	17	1	—	82	549	253	443
Bars, sheets, filings, etc.	1	9	3	214	105	219	200
Portugal—							
Sheets, wire, etc. ..	1	2	—	6	1	1	—
Spain—							
Ingots and bars .. .. .	50	120	1,264	90	278	1	99
Sweden—							
Crude .. .. .	1	68	51	364	666	1,512	1,402
Switzerland—							
Pigs, bars and slabs ..	242	117	61	59	920	851	787
Sheets, wire, foil, etc. ..	1	—	—	—	6	3	7
U.S.S.R.—							
Blocks, ingots, etc. (c) ..	9,193	11,990	1,200	—	1,474	—	—
Algeria—							
Crude, sheets and alloys, etc. .. .. .	50	123	496	101	188	305	(a)
Egypt—							
Crude and scrap .. .. .	681	93	358	358	678	239	555

(a) Information not available.

(b) January to July only.

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

(d) January to October only.

(e) Bizonal area only.

## IMPORTS OF TIN (Cont.)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
Madagascar—							
Bars, sheets, etc. ..	(a)	3	(a)	20	43	31	29
Morocco (French)—							
Ingots, etc. .. ..	24	103	77	19	100	160	(a)
Mozambique—							
Bars, sheets, etc. ..	5	2	3	7	3	6	6
Tunis—							
Pigs, bars and sheets ..	20	46	3	59	106	104	61
Cuba (total imports)—							
Ingots .. .. .	25	47	48	70	(a)	(a)	(a)
Bars, sheets, etc. ..	62	55	45	129	(a)	(a)	(a)
Mexico—							
Ingots .. .. .	12	—	—	7	91	(a)	(a)
United States—							
Ore ( <i>Sn content</i> ) .. ..	28,933	19,515	35,548	33,479	38,070	30,510	37,388
Blocks, pigs, bars, etc. ..	26,588	10,547	12,900	8,320	15,520	24,894	48,784
Scrap .. .. .	128	—	—	—	—	49	86
Argentina—							
Ingots and sheets .. ..	377	20	6	2	395	876	884
Brazil (total imports)—							
Ingots and bars .. ..	654	268	358	362	779	848	1,248
Colombia—							
Ingots, bars, sheets, etc.	6	41	(a)	(a)	25	(a)	(a)
Chile—							
Ore .. .. .	18	—	50	98	50	(a)	(a)
Ingots .. .. .	279	49	81	88	163	190	98
Bars and sheets .. ..	—	1	—	—	—	(a)	(a)
Peru—							
Bars, sheets, etc. .. ..	2	7	24	44	33	(a)	(a)
Uruguay—							
Ingots .. .. .	(a)	55	76	(a)	(a)	(a)	(a)
Venezuela—							
Crude .. .. .	22	23	(a)	64	35	45	(a)
China—							
Ingots and slabs .. ..	} (a)	(a)	(a)	(a)	860	26	(a)
Tin and lead foils .. ..							
Iran (total imports) (b)—							
Ingots, sheets and wire	706	25	(a)	(a)	473	579	(a)
Iraq—							
Crude, etc. .. .. .	6	24	4	3	(a)	(a)	(a)
Sheets, wire, etc. .. ..	404	6	1	145	(a)	(a)	(a)
Japan—							
Ingots and slabs .. ..	3,753	22,098	9,235	4,255	(a)	(a)	(a)
Syria and Lebanon—							
Ingots and sheets .. ..	4	6	13	42	106	(a)	(a)
Turkey—							
Ingots, bars and sheets ..	(a)	(a)	402	885	199	350	743

(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	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
Southern Rhodesia—							
Titanium ore .. ..	—	—	7	—	—	—	—
Canada (shipments)—							
Titanium ore .. ..	8,956	61,997	30,333	12,631	1,255	6,343	3,965
India—							
Ilmenite .. ..	49,188	37,440	100,794	172,086	185,023	260,955	229,416
Rutile .. ..	2,259	2,358	1,646	610	258	157	127
Malaya (exports)—							
Ilmenite ("Amang") ..	(a)	(a)	(a)	(a)	—	13,081	13,566
Australia—							
Ilmenite concentrates ..	565	2,744	3,902	5,403	5,789	9,773	11,498
Estimated content of all ilmenite-bearing con- centrates (b) .. ..	4,515	5,384	7,173	8,360	6,610	10,310	11,570
Rutile concentrates ..	—	319	2,027	3,960	4,906	8,464	13,304
Estimated content of all rutile-bearing concen- trates (c) .. ..	5,416	6,624	8,703	9,744	8,152	13,194	15,106
<b>FOREIGN COUNTRIES</b>							
Norway—							
Ilmenite .. ..	59,754	65,146	62,965	27,865	51,744	68,610	88,595
Rutile (d) .. ..	76	114	84	75	62	50	—
Portugal—							
Ilmenite .. ..	—	—	—	573	380	239	151
Tin-titanium ore .. ..	1,768	1,174	99	43	11	4	44
Spain—							
Ilmenite .. ..	84	175	540	213	126	147	178
Cameroon (French)—							
Rutile .. ..	2,360	2,692	3,270	1,417	1,240	744	567
Egypt—							
Ilmenite .. ..	654	—	9	45	144	—	2,593
French West Africa—							
Ilmenite .. ..	4,557	653	—	3,149	4,125	11,104	3,632
United States—							
Ilmenite .. ..	68,936	181,742	248,759	275,461	252,185	300,476	342,629
Rutile .. ..	2,364	3,560	6,180	6,410	6,654	7,645	6,589
Brazil (exports)—							
Ilmenite .. ..	—	—	2,461	4,921	—	—	7,775
Rutile .. ..	4,542	4,485	1,539	157	28	5	—

(a) Information not available.

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

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

(d) Ore and concentrates.

## EXPORTS OF TITANIUM MINERALS, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom—							
Ferro-titanium .. ..	(a)	(a)	(a)	(a)	193	310	309
Malaya—							
Ilmenite ("Amang") ..	(a)	(a)	(a)	(a)	—	(b) 13,081	(b) 13,566
India—							
Ilmenite .. .. .	(c) 30,487	(c) 20,582	(c) 72,613	(d) 197,270	(d) 208,737	(d) 201,559	(c) 192,756
Rutile sand .. .. .	—	—	1,236	164	50	131	(a)
Australia—							
Rutile .. .. .	(a)	210	1,414	(a)	4,857	8,880	13,270
Rutile-Ilmenite .. ..	(a)	883	90	(a)	10	75	916
Zircon-Rutile .. .. .	(a)	9,409	7,415	(a)	5,768	10,370	4,160
Zircon-Rutile-Ilmenite	(a)	9,119	12,814	(a)	2,458	2,063	180
<b>FOREIGN COUNTRIES</b>							
Belgium-Luxemburg E.U.—							
Titanium white .. ..	(a)	(a)	(a)	(a)	(a)	(a)	504
Czechoslovakia—							
Titanium white .. ..	(a)	(a)	(a)	(a)	636	596	(f) 414
France—							
Titanium oxide, etc. ..	24	—	—	24	167	223	169
Italy—							
Titanium white .. ..	(a)	(a)	(a)	(a)	(a)	127	242
Norway—							
Ilmenite (e) .. .. .	61,642	63,157	64,590	24,726	51,508	65,944	91,428
Rutile .. .. .	69	104	83	75	50	25	24
Titanium white .. ..	358	631	564	957	930	1,429	1,813
Portugal—							
Ore .. .. .	(a)	916	618	5	222	144	—
Cameroon (French)—							
Rutile .. .. .	2,119	2,707	2,857	1,023	1,663	451	612
French West Africa (Senegal)—							
Ilmenite .. .. .	2,515	—	—	658	5,147	12,764	2,690
United States—							
Ores and concentrates ..	552	514	260	544	1,237	1,130	1,298
Ferro-titanium, etc. ..	377	672	707	664	491	455	429
Titanium oxide and pig- ments .. .. .	7,920	8,719	9,754	11,450	14,566	18,903	23,950
Titanium compounds ..	22	650	335	67	(a)	(a)	(a)
Brazil—							
Ilmenite .. .. .	—	—	2,461	4,921	—	—	7,775
Rutile .. .. .	4,542	4,485	1,539	157	28	5	—

(a) Information not available.

(b) Mines Department figures. Official trade returns give 10,281 and 14,316 long tons for 1947 and 1948 respectively.

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

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

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

(f) January to October only.

IMPORTS OF TITANIUM MINERALS, ETC.\*

(Less Re-exports)

(Long tons)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom— Titanium ores .. ..	34,542	15,561	21,012	26,532	37,830	71,250	57,247
<b>FOREIGN COUNTRIES</b>							
Austria— Titanium white .. ..	(a)	(a)	(a)	(a)	(a)	10	114
Belgium-Luxemburg E.U.— Titanium white .. ..	(a)	(a)	(a)	(a)	(a)	(a)	731
Czechoslovakia— Titanium white .. ..	(a)	(a)	(a)	(a)	—	20	—
France— Titanium oxide, etc. ..	789	843	299	142	316	496	140
Iceland— Titanium white .. ..	44	74	20	1	12	(a)	(a)
Italy— Ferro-titanium .. ..	5	—	(a)	—	—	1	10
Netherlands— Titanium oxide .. ..	286	305	(a)	(a)	91	424	2,002
Titanium white .. ..	173	104	(a)	(a)	206	603	64
Portugal— Ore .. ..	5	10	—	—	15	3	—
Mexico— Titanium oxide .. ..	205	56	95	183	294	(a)	(a)
United States— Ilmenite (b) .. ..	6,453	66,774	93,647	186,461	215,136	273,547	216,177
Rutile (b) .. ..	5,735	8,602	3,304	2,950	3,936	(d) 6,765	7,831
Titanium compounds ..	—	—	—	—	(a)	6	(a)
Brazil— Titanium oxide .. ..	89	123	56	182	103	277	(a)
Chile— Titanium oxide .. ..	26	44	27	147	128	(a)	(a)
Japan— Ilmenite .. ..	2,953	4,724	(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
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 .. ..	—	—
1948 .. ..	—	—

(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**  
**PRODUCTION OF TUNGSTEN ORE AND CONCENTRATES**  
(Long tons)

Producing Country	Estimated WO <sub>3</sub> Content													
	1942	1943	1944	1945	1946	1947	1948	1948						
<b>BRITISH COUNTRIES</b>														
Great Britain— Concentrates .. .. .	171	207	356	110	89	66	(a)	118	140	207	71	64	53	(a)
Nigeria— Concentrates .. .. .	90	68	28	5	5	3	3	59	44	18	3	3	2	2
South West Africa— Wolfram .. .. .	90	132	85	—	—	3	4	63	92	60	—	—	2	3
Scheelite .. .. .	4	15	14	5	—	5	6	3	10	10	4	—	4	4
Southern Rhodesia— Concentrates .. .. .	458	733	689	261	48	24	70	330	671	461	188	34	17	50
Tanganyika Territory— Tungsten ore .. .. .	2	3	—	—	—	—	1	1	2	—	—	—	—	1
Uganda— Wolfram .. .. .	(f)	9	29	53	79	131	164	(a)	20	54	36	53	88	115
Union of South Africa— Concentrates .. .. .	344	375	574	411	126	79	140	236	252	375	269	84	53	89
Canada (b)— Concentrates .. .. .	233	673	396	(10 car.)	—	298	629	144	365	126	(7 car.)	—	221	467
Burma— Tungsten concentrates ..	(e) 743	(e) 743	(e) 743	(e) 743	73	349	(a)	475	475	475	475	50	237	(a)
Tin-wolfram concentrates	(e) 1,109	(e) 1,109	(e) 1,109	(e) 1,109	(a)	(a)	(a)	320	320	320	320	(a)	(a)	(a)
India— Concentrates .. .. .	79	78	30	20	3	(a)	(a)	47	47	18	12	2	(a)	(a)
Malaya— Wolfram .. .. .	35	70	99	15	9	33	46	25	50	70	10	6	23	32
Scheelite .. .. .	16	52	83	10	—	11	29	11	36	58	7	—	8	20
Australia (c)— Wolfram (d) .. .. .	573	625	587	521	321	388	428	372	406	402	335	206	248	292
Scheelite .. .. .	252	228	115	609	693	664	651	164	148	77	397	452	433	445
New Zealand— Scheelite .. .. .	67	110	136	34	27	22	25	46	75	94	22	18	14	16

(a) Information not available.

(b) Shipments (chiefly scheelite).

(c) Figures for 1942 and 1943 have been recalculated on a 65% WO<sub>3</sub> basis.

(d) Includes some mixed wolfram-scheelite concentrates.

(e) Average annual production during the Japanese occupation.

(f) Exports.

PRODUCTION OF TUNGSTEN ORE AND CONCENTRATES (Cont.)

Producing Country	1942	1943	1944	1945	1946	1947	1948	Estimated WO <sub>3</sub> Content							
								1942	1943	1944	1945	1946	1947	1948	
FOREIGN COUNTRIES															
Finland— Concentrates .. ..	—	—	—	—	—	—	3	—	—	—	—	—	—	—	2
France— Concentrates .. ..	79	103	71	171	224	354	492	44	59	39	109	169	240	343	
Italy— Ore .. ..	35	11	12	13	15	19	8	3	1	1	3	4	5	2	
Norway— Wolfram .. ..	6	—	5	5	—	—	—	4	—	3	3	—	—	—	—
Portugal (c)— Scheelite .. ..	11	4	82	—	1	17	2	6	2	41	—	1	11	1	
Wolfram .. ..	4,049	5,582	3,058	—	260	2,640	2,576	2,632	3,404	1,529	—	169	1,699	1,674	
Tin-tungsten ores .. ..	1,264	2,241	2,218	4	44	174	261	247	728	721	(a)	11	43	65	
Spain— Concentrates .. ..	1,488	3,974	2,436	284	390	418	794	967	2,583	1,583	185	254	272	516	
Sweden— Concentrates .. ..	373	380	468	563	691	506	527	198	216	250	308	364	238	236	
Belgian Congo— Concentrates .. ..	266	240	365	427	384	174	215	173	156	237	278	250	113	140	
Tin-tungsten ore .. ..	—	—	—	—	—	553	391	—	—	—	—	—	137	96	
Egypt— Concentrates .. ..	18	41	15	—	—	—	15	12	24	10	—	—	—	(a)	
Morocco (French)— Concentrates .. ..	1	—	2	—	—	—	—	1	—	1	—	—	—	—	
Mexico .. ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)	91	241	157	63	44	45	80	
United States— Concentrates .. ..	8,422	10,763	9,161	5,055	4,382	2,839	3,759	5,053	6,458	5,496	3,033	2,629	1,703	2,255	
Argentina— Concentrates (b)	1,893	2,147	1,856	954	(a)	(a)	(a)	1,250	1,412	1,225	(a)	(a)	(a)	(a)	
Bolivia (exports)— Concentrates .. ..	5,517	6,823	7,810	3,498	2,351	2,909	2,240	3,310	4,076	4,686	2,275	1,252	1,556	1,467	
Brazil (exports)— Concentrates .. ..	—	1,149	1,958	2,006	1,452	1,208	1,039	—	746	1,312	(a)	(a)	(a)	(a)	
Chile— Concentrates .. ..	—	3	3	—	—	—	(a)	—	2	2	—	—	—	(a)	

(a) Information not available.

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

(c) In addition 460 tons of mixed Pyrites-Wolfram ore containing 10-17% WO<sub>3</sub> were produced in 1947.

PRODUCTION OF TUNGSTEN ORE AND CONCENTRATES (Cont.)

Producing Country	Estimated WO <sub>3</sub> Content													
	1942	1943	1944	1945	1946	1947	1948	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)														
Peru— Concentrates .. ..	396	770	620	472	421	566	364	218	426	375	309	301	342	208
China— Concentrates .. ..	11,800	8,573	3,184	—	2,224	6,303	(c) 10,000	7,700	5,600	2,100	—	1,400	4,100	6,500
French Indo-China— Concentrates .. ..	197	98	75	7	—	—	—	126	63	49	5	—	—	—
Japan— Concentrates .. ..	927	791	650	(a)	(a)	(a)	7	525	448	368	(a)	(a)	(a)	5
Korea— Concentrates .. ..	5,966	6,822	8,201	1,365	(b) 1,161	(b) 2,167	(b) 1,160	4,080	4,090	4,920	820	700	1,300	735
Siam— Concentrates .. ..	1,502	1,579	1,032	419	182	441	449	976	1,026	671	272	119	287	292

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

(a) Information not available.

(b) South Korea only.

(c) Estimated.

EXPORTS OF TUNGSTEN, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Tungsten ore .. ..	—	—	—	—	18	10	66
Ferro-tungsten .. ..	154	14	16	159	277	960	1,082
Tungsten powder, wire, etc. .. ..	6	—	1	(2 cut.)	30	54	110
Nigeria—							
Tungsten ore .. ..	87	84	44	10	2	5	3
Southern Rhodesia—							
Tungsten ores .. ..	408	679	523	393	132	13	75
South West Africa—							
Tungsten ore .. ..	82	130	46	84	4	10	9
Tanganyika Territory—							
Tungsten ore .. ..	2	4	—	—	—	—	1
Uganda—							
Tungsten ore .. ..	9	29	80	79	84	131	108
Union of South Africa—							
Tungsten ore .. ..	324	315	171	909	169	83	101
Burma—							
Tungsten ore and concen- trates (b) .. ..	(a)	(a)	(a)	(a)	(d) 15	(a)	(a)
Hong Kong (c)—							
Tungsten ore .. ..	(a)	(a)	(a)	(a)	656	992	3,307
India—							
Tungsten and tin-tung- sten ores .. ..	68	—	—	65	12	5	—
Malaya (c)—							
Wolfram .. ..	} (a)	(a)	(a)	(a)	} (a)	83	158
Scheelite .. ..						8	36
Australia—							
Wolfram .. ..	315	72	579	587	545	345	345
Scheelite .. ..	(e) 9	(e) 20	(e) 4	(e) 44	592	949	879
New Zealand—							
Scheelite .. ..	69	105	119	75	21	16	28
FOREIGN COUNTRIES							
Norway—							
Tungsten ore .. ..	8	6	—	—	—	—	—
Portugal—							
Tungsten ore .. ..	4,726	6,564	2,646	—	1,974	3,005	2,650
Spain—							
Tungsten ore .. ..	156	1,374	2,462	1,636	52	1,431	558
Sweden—							
Ore .. ..	11	12	—	—	—	10	—
Ferro-tungsten .. ..	4	5	—	5	288	1,024	704
Belgian Congo—							
Tungsten ores .. ..	(a)	(a)	(a)	(a)	(a)	564	350
Mexico—							
Tungsten ore and concen- trates .. ..	168	1,409	337	157	56	175	(a)
WO <sub>3</sub> content .. ..	91	210	157	63	45	(a)	(a)

- (a) Information not available.
- (b) Including tin-tungsten concentrates.
- (c) Including re-exports.
- (d) February to September only.
- (e) Year ended June 30 of that stated.

EXPORTS OF TUNGSTEN, ETC. (Cont.)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES (Cont.)							
United States—							
Ore and concentrates ..	7	1	—	2	35	139	370
Ferro-tungsten .. ..	119	461	1,051	385	(a)	37	460
Tungsten metal, wire and alloys .. ..	140	105	140	116	62	109	81
Argentina—							
Tungsten ore .. ..	1,610	2,216	1,705	934	474	(a)	81
Bolivia—							
Tungsten ore (WO <sub>3</sub> content) ..	3,310	4,076	4,686	2,275	1,252	1,556	1,467
Brazil—							
Tungsten ore .. ..	—	1,149	1,958	2,006	1,452	1,208	1,039
Peru—							
Tungsten ore and concentrates (WO <sub>3</sub> content) ..	219	426	345	195	411	221	139
China—							
Tungsten ore .. ..	271	—	1,088	—	4,855	6,012	12,848
French Indo-China—							
Tungsten ore .. ..	64	94	(a)	(a)	165	(a)	(a)
Korea—							
Tungsten ore (b) ..	2,400	2,900	3,900	1,500	(a)	(a)	1,800
Siam (b)—							
Tungsten ore .. ..	1,200	800	400	(a)	(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	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Tungsten ores .. ..	7,526	6,637	6,199	3,067	2,085	7,070	7,748
Tungsten powder, wire, etc. .. ..	15	11	4	—	1	1	1
Canada—							
Tungsten ore .. ..	(b) 517	54	—	2	1	44	74
Ferro-tungsten .. ..	(b) 92	698	1	—	26	306	172
Hong Kong (c)—							
Tungsten ore .. ..	(a)	(a)	(a)	(a)	799	1,707	2,402
Malaya (c)							
Wolfram .. ..	(a)	(a)	(a)	(a)	—	—	56
FOREIGN COUNTRIES							
Germany—							
Tungsten ore .. ..	3,064	1,869	(d) 45	(a)	(a)	(a)	(a)
Italy—							
Ferro-tungsten .. ..	127	90	(a)	—	93	74	197
Sweden—							
Tungsten ore .. ..	1	—	—	255	1,058	2,555	2,169
Ferro-tungsten .. ..	—	—	—	—	20	—	5
United States (c)—							
Tungsten ore .. ..	12,391	16,928	17,070	4,709	6,221	5,924	7,086
WO <sub>3</sub> content .. ..	8,068	10,945	10,355	2,877	4,793	4,079	4,770
Tungsten metal (WO <sub>3</sub> content) .. ..	2	(a)	—	2	5	6	—
Japan—							
Tungsten ore .. ..	5,800	6,400	5,800	1,900	(a)	5	(a)

(a) Information not available.

(b) May 15 to December 31.

(c) Total imports.

(d) January to July only.

**URANIUM MINERALS**  
**PRODUCTION OF URANIUM MINERALS**  
(Cwt.)

Producing Country	1942	1943	1944	1945	1946	1947	1948
FOREIGN COUNTRIES							
Portugal (b) . . . . .	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Belgian Congo (exports)— Uranium minerals ..	(c) 4,692	163,124	176,549	196,189	(a)	(a)	(a)

Statistics of the production of Uranium are no longer published. In addition to those mentioned above uranium minerals are produced in a number of other countries.

(a) Information not available.

(b) The content of radium in salts was 500 mgrams. in 1942; 975 mgrams. in 1943; 113 mgrams. in 1944.

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

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

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom— Radium compounds Grains	1	1	5	(£814)	(£705)	5	8
Canada— Radium and salts £	(a)	(a)	459,723	270,289	84,122	381,102	216,439
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.— Uranium oxide .. Cwt.	138	—	—	(a)	(a)	(a)	(a)
France— Radium and radium products .. .. Lb.	900	—	—	64	44	—	—
Portugal— Radium ore .. Lb.	675	2,853	212	(a)	—	—	—
Uranium ore .. Cwt.	1,187	(a)	(a)	(a)	—	—	1
Belgian Congo— Uranium minerals Cwt.	(b) 4,692	163,124	176,549	196,189	(a)	(a)	(a)
United States— Uranium ore, etc. Grams.	543	(a)	—	(a)	(a)	(a)	(a)
do. (compounds) Lb.	426	321	221	(a)	(a)	(a)	(a)
Radium metals Mgrams.	155	82	—	361	(a)	68	546
do. (compounds) (Ra content) Grams.	1,245	3,571	4,752	(a)	(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	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom—							
Uranium minerals Cwt.	8	6	3	—	—	—	—
Radium compounds Grains	440	286	387	138	127	520	747
Canada—							
Radium .. .. £	269	4,143	453	89	4,062	55,127	90,694
Newfoundland (b)—							
Radium salts and compounds Mgrams.	(a)	(a)	(a)	406	—	(a)	(a)
<b>FOREIGN COUNTRIES</b>							
Belgium-Luxemburg E.U.—							
Uranium oxide .. Cwt.	2	—	—	(a)	(a)	(a)	(a)
France—							
Uranium oxide .. Cwt.	—	—	—	10	10	4	(a)
Other uranium salts do.	—	2	—	—	—	—	(a)
Radium and radium products .. .. Lb.	359	7,518	—	—	496	86	4
Egypt—							
Radium .. .. £	—	—	—	—	284	73	6
United States—							
Uranium ore .. Cwt.	4,833	(a)	(a)	(a)	(a)	(a)	(a)
Uranium oxide and salts .. .. Cwt.	3,370	1,887	93	(a)	(a)	(a)	(a)
Radium salts .. .. £	93,600	(c) 339,000	(c) 341,200	246,149	81,005	(c) 373,403	343,756
Brazil—							
Radium and radium products Mgrams.	—	—	10	30	1,663	834	1,265
Chile—							
Uranium and compounds Lb.	46	4	—	22	7	(a)	(a)
Radium compounds Grams.	—	875	—	—	50	(a)	(a)
Peru—							
Radium salts .. Lb.	(a)	(a)	(a)	—	265	(a)	(a)
Turkey—							
Uranium salts .. Lb.	—	—	—	15	15	8	4

(a) Information not available.

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

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

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

Producing Country	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
Northern Rhodesia ..	382	420	251	216	67	56	171
South West Africa ..	368	568	379	435	457	222	180
India (sales) .. ..	15	19	—	—	—	—	—
FOREIGN COUNTRIES							
Morocco (French) ..	1	4	5	—	—	—	—
Argentina .. ..	—	—	4	3	6	7	(a)
United States (Shipments)	1,982	2,494	1,575	1,323	568	946	(a)
Peru .. ..	1,000	867	510	661	317	428	503

(a) Information not available.

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

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom— Ferro-vanadium ..	(a)	(a)	(a)	(a)	(a)	57	131
Northern Rhodesia— Oxide, fused .. ..	732	853	250	597	22	146	159
South West Africa— Concentrates .. ..	3,606	3,143	624	1,331	900	2,906	460
FOREIGN COUNTRIES							
United States— Ore and concentrates ( <i>V content</i> ) .. ..	10	17	3	51	3	9	11
Metal, alloys and scrap	12	1	—	—	(a)	11	1
Ferro-vanadium ..	230	198	532	76	(a)	80	107
Vanadium oxide ..	27	—	15	(a)	(a)	(a)	(a)
Other compounds ..	9	7	3	(a)	(a)	(a)	(a)
Peru— Ore and concentrates ( <i>V content</i> ) .. ..	995	834	507	677	327	417	442

(a) Information not available.

IMPORTS OF VANADIUM

(Less Re-exports)

(Long tons)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Ore .. .. .	2,613	2,614	618	1,331	914	1,006	1,550
Oxide .. .. .	(a)	(a)	(a)	(a)	20	46	42
Other compounds ..	(a)	(a)	(a)	(a)	3	94	—
FOREIGN COUNTRIES							
France—							
Oxide .. .. .	1	—	—	222	609	70	(a)
Italy—							
Oxide .. .. .	445	269	34	(a)	(a)	(a)	(a)
Ferro-vanadium ..	2	2	(a)	—	—	17	14
Sweden—							
Ore .. .. .	8	46	9	8	26	159	—
Ferro-vanadium ..	—	—	—	2	1	42	114
United States—							
Ore .. .. .	16,291	9,874	1,896	3,918	1,243	1,462	1,801
(V content) .. ..	1,082	917	574	697	353	439	534
Flue dust (V content) ..	(a)	(a)	18	12	10	32	—
Japan—							
Ore .. .. .	(a)	(a)	197	(a)	(a)	21	(a)

(a) Information not available.

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

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
Great Britain .. ..	3,942	4,579	8,663	3,562	—	—	—
Nigeria .. ..	—	—	—	—	—	6	357
Northern Rhodesia .. ..	(c) 12,840	(b) 13,704	(b) 14,796	(b) 15,576	(b) 17,568	(b) 21,600	(b) 23,940
South West Africa .. ..	—	—	—	—	—	(d) 5,300	11,343
Canada (b) .. ..	259,044	272,658	245,903	230,899	210,098	185,592	209,075
Newfoundland .. ..	50,180	59,286	53,125	50,597	48,653	39,481	38,633
Burma .. ..	(e) 32,526	—	—	—	—	—	(a)
Australia .. ..	221,834	182,841	174,358	150,313	171,910	182,258	190,469
<b>TOTAL</b> .. ..	<b>580,000</b>	<b>533,000</b>	<b>497,000</b>	<b>451,000</b>	<b>448,200</b>	<b>434,200</b>	<b>473,800</b>
<b>FOREIGN COUNTRIES</b>							
Austria .. ..	(a)	(a)	(a)	(a)	900	1,450	3,104
Czechoslovakia .. ..	(f)	(f)	(f)	(a)	(a)	(a)	(a)
Finland (b) .. ..	2,985	2,705	2,178	1,363	1,880	1,901	2,447
France .. ..	3,165	2,556	2,495	3,282	4,770	5,730	6,004
Germany (h)—							
British zone .. ..	} 231,000	} 261,000	} 250,000	} 24,000	21,861	21,959	28,465
French zone .. ..					(a) 320	2,730	4,870
Russian zone .. ..					(a)	(a)	(a)
Greece .. ..	(a)	(a)	(a)	(a)	485	1,239	(a)
Italy .. ..	74,000	48,000	20,900	9,700	28,800	56,900	69,800
Norway .. ..	4,758	4,810	4,984	1,806	4,243	5,548	(a)
Poland .. ..	(f)	(f)	(a)	(a)	(c) 55,720	(c) 70,623	(c) 85,714
Roumania .. ..	(g) 10	(g) 10	(a)	(a)	(a)	(a)	(a)
Spain (g) .. ..	38,000	39,000	32,000	28,000	36,000	38,000	41,000
Sweden .. ..	32,606	30,917	32,389	33,069	37,224	35,358	34,925
U.S.S.R. (smelter) (g) .. ..	(a)	(a)	(a)	85,000	90,000	105,000	145,000
Yugoslavia (g) .. ..	16,000	16,000	16,000	10,000	25,000	30,000	30,000
Algeria .. ..	3,209	2,933	995	1,876	3,800	5,760	6,030
Belgian Congo .. ..	8,193	20,113	15,270	23,319	34,981	39,519	44,894
French Equatorial Africa .. ..	1,100	700	500	612	—	—	—
Morocco (French) .. ..	790	514	1,150	965	1,660	1,722	2,290
Tunis .. ..	650	146	730	755	1,529	2,540	2,342
Mexico .. ..	186,874	194,086	215,507	206,624	137,331	192,721	176,202
United States (b) .. ..	685,737	664,461	641,645	548,534	513,244	569,293	562,479
Argentina .. ..	29,238	20,123	(a)	(a)	(a)	(a)	(a)
Bolivia (exports) .. ..	10,737	20,741	16,061	20,644	18,885	14,381	20,789
Peru (b) .. ..	23,136	32,533	56,207	60,188	58,793	57,262	57,913
French Indo-China .. ..	6,063	4,830	1,383	374	—	—	—
Japan .. ..	79,851	89,323	73,036	22,325	20,716	29,068	32,904
<b>TOTAL</b> .. ..	<b>1,540,000</b>	<b>1,550,000</b>	<b>1,480,000</b>	<b>1,100,000</b>	<b>1,100,000</b>	<b>1,300,000</b>	<b>1,320,000</b>
<b>WORLD'S TOTAL</b> .. ..	<b>2,120,000</b>	<b>2,083,000</b>	<b>1,900,000</b>	<b>1,550,000</b>	<b>1,550,000</b>	<b>1,730,000</b>	<b>1,800,000</b>

(a) Information not available.

(b) Recoverable.

(c) Smelter production.

(d) Content of ore sorted ex dumps.

(e) Nine months ended March 31, 1942.

(f) Included with Germany.

(g) Estimated.

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

1942 .. ..	48,988
1943 .. ..	54,959

METAL PRODUCTION OF ZINC

(Long tons)

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom .. ..	72,564	69,384	71,052	62,028	65,517	68,296	71,983
Northern Rhodesia ..	12,840	13,405	14,480	15,240	17,184	21,140	22,170
Canada .. .. .	192,674	184,384	150,463	163,676	165,788	159,164	175,513
Australia .. .. .	74,282	75,756	78,716	83,773	76,316	69,421	81,312
<b>TOTAL</b> .. .. .	<b>352,360</b>	<b>342,729</b>	<b>314,711</b>	<b>324,717</b>	<b>324,805</b>	<b>318,021</b>	<b>350,978</b>
<b>FOREIGN COUNTRIES</b>							
Belgium .. .. .	36,238	43,079	12,214	5,453	78,057	130,909	151,497
Czechoslovakia .. ..	(b)	(b)	(b)	(a)	(a)	(a)	(a)
France .. .. .	22,468	21,151	8,654	8,281	30,524	42,300	54,088
Germany .. .. .	199,445	201,864	159,720	(a)	(c) 14,620	(c) 20,396	(c) 40,704
Italy .. .. .	33,015	24,800	6,000	1,600	15,021	23,697	25,981
Netherlands .. .. .	(d) 5,071	(d) 4,493	(d) 2,072	(d) —	(d) 1,979	9,381	15,000
Norway .. .. .	7,571	15,133	11,591	9,082	29,733	34,034	41,337
Poland .. .. .	109,088	107,269	96,261	(a)	55,720	70,623	85,714
Spain .. .. .	18,848	18,897	17,769	17,031	17,291	19,511	20,869
Sweden .. .. .	—	—	1,762	2,882	—	—	—
U.S.S.R. (e) .. .. .	(a)	(a)	(a)	85,000	90,000	105,000	145,000
Mexico .. .. .	50,926	53,589	48,470	49,196	41,319	55,853	47,560
United States (f) (g) ..	796,314	841,347	776,163	682,644	650,234	715,513	703,361
Argentina .. .. .	404	648	1,200	1,517	1,785	2,600	1,577
Peru .. .. .	926	1,206	1,424	1,558	921	997	680
China .. .. .	(a)	500	326	323	(a)	(a)	(a)
French Indo-China ..	5,406	4,072	612	—	—	—	—
Japan .. .. .	53,866	59,985	61,683	25,373	11,078	14,598	20,845
<b>TOTAL *</b> .. .. .	<b>1,440,000</b>	<b>1,490,000</b>	<b>1,300,000</b>	<b>920,000</b>	<b>1,050,000</b>	<b>1,250,000</b>	<b>1,320,000</b>
<b>WORLD'S TOTAL *</b> ..	<b>1,790,000</b>	<b>1,830,000</b>	<b>1,615,000</b>	<b>1,245,000</b>	<b>1,375,000</b>	<b>1,568,000</b>	<b>1,670,000</b>

\* 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) Included with Germany.

(c) British Zone only. Including secondary.

(d) United States Bureau of Mines.

(e) Estimated.

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

1942 .. .. .	295,112	1946 .. .. .	268,466
1943 .. .. .	329,007	1947 .. .. .	277,494
1944 .. .. .	308,454	1948 .. .. .	289,856
1945 .. .. .	321,825		

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

	1942	1943	1944	1945	1946	1947	1948
A—High grade—Special ..	206,627	261,757	224,295	196,644	210,879	213,637	221,737
Ordinary .. .. .	223,662	271,199	224,638	171,106	161,041	170,026	175,430
B—Intermediate grade ..	69,221	55,982	49,936	43,845	28,834	32,868	34,725
C and D—Brass special ..	76,943	73,279	48,568	67,633	67,229	54,557	41,023
Selected .. .. .	23,929	18,254	21,782	15,506	12,229	11,468	4,217
E—Prime Western .. .. .	243,429	203,925	250,727	231,876	209,769	287,120	281,871

PRODUCTION OF ELECTROLYTIC ZINC

(Long tons)

Producing Country	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
Northern Rhodesia ..	8,669	11,595	8,026	10,531	7,176	14,753	15,114
Canada .. .. .	192,674	184,384	150,463	163,676	165,788	158,757	171,875
Australia (Tasmania) ..	74,282	75,756	78,716	83,773	76,316	69,421	81,312
FOREIGN COUNTRIES							
Belgium .. .. .	8,070	7,578	3,691	955	11,338	(a)	(a)
France .. .. .	11,759	11,536	5,478	6,693	17,726	20,147	23,610
Italy .. .. .	28,800	21,800	3,900	1,400	14,310	18,621	22,457
Norway .. .. .	7,571	15,133	11,591	9,082	29,733	34,034	41,337
Poland .. .. .	(a)	(a)	(a)	(a)	10,391	14,265	(a)
United States .. .. .	225,881	294,555	283,383	241,004	251,156	263,857	278,997
Argentina .. .. .	404	648	(a)	(a)	(a)	(a)	(a)
Japan .. .. .	25,813	31,185	29,897	(b) 12,000	(b) 5,000	(b) 7,000	(a)

(a) Information not available.

(b) Estimated.

PRODUCTION OF ZINC DUST

(Long tons)

Producing Country	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom .. ..	5,796	14,232	12,300	5,892	6,180	5,319	6,976
Northern Rhodesia ..	(a)	(a)	(a)	(a)	6	30	29
Canada (estimated) ..	100	100	100	(a)	(a)	(a)	(a)
FOREIGN COUNTRIES							
France .. .. .	268	451	166	156	826	137	1,093
Germany .. .. .	7,319	8,890	8,402	(a)	(a)	(a)	(a)
Poland .. .. .	(b)	(b)	(b)	(a)	1,198	2,148	(a)
United States .. .. .	20,358	23,205	23,670	23,104	25,512	27,323	28,765

(a) Information not available.

(b) Included with Germany.



PRODUCTION OF ROLLED ZINC SHEETS, PLATES AND STRIPS

(Long tons)

Producing Country	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom .. ..	24,200	24,600	26,200	24,120	26,424	26,098	27,585
<b>FOREIGN COUNTRIES</b>							
Belgium .. .. .	19,064	15,835	(a)	(a)	(a)	(a)	(a)
France .. .. .	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Germany .. .. .	138,000	77,000	(a)	(a)	(a)	(a)	(a)
Poland .. .. .	(c)	(c)	(a)	9,565	27,503	(d) 34,000	(d) 37,000
Spain .. .. .	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Yugoslavia .. ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
United States (b) ..	58,059	41,702	67,080	86,587	81,297	63,569	69,347

(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
1942 .. .. .	13,965	1946 .. .. .	16,670
1943 .. .. .	11,437	1947 .. .. .	13,350
1944 .. .. .	19,246	1948 .. .. .	13,421
1945 .. .. .	28,543		

(c) Included with Germany.

(d) Estimated.

EXPORTS OF ZINC  
(Domestic Produce)  
(Long tons)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
BRITISH COUNTRIES							
United Kingdom—							
Ore and concentrates ..	—	—	—	—	—	—	6,078
Ingots, bars etc. ..	74	1,304	121	2,084	1,840	308	1,044
Sheets, plates, etc. ..	654	960	565	1,299	4,353	2,556	2,909
Oxide .. .. .	1,921	1,044	1,250	11,817	22,845	11,216	14,174
Lithopone .. .. .	6,193	7,720	6,406	7,263	6,360	3,778	266
Northern Rhodesia—							
Ingots .. .. .	13,665	11,941	13,593	13,995	17,217	19,178	23,253
South West Africa—							
Ores and concentrates (Zn content) .. .. .	(a)	(a)	(a)	(a)	(a)	(a)	13,984
Southern Rhodesia—							
Fume, dust and shavings	34	23	11	19	10	8	—
Union of South Africa—							
Bars, sheets, etc. ..	—	—	851	381	347	(a)	(a)
Canada—							
Ore (Zn content) .. ..	67,959	99,353	101,164	81,946	51,965	36,228	48,417
Spelter .. .. .	135,856	115,460	85,701	108,893	129,372	122,525	129,363
Dross, scrap and ashes ..	3,164	1,916	4,082	6,148	3,346	4,214	6,445
Newfoundland (b)—							
Concentrates .. .. .	(c) 70,342	261,299	75,096	102,746	93,580	69,360	76,175
Burma—							
Concentrates (d) .. ..	(a)	(a)	(a)	(a)	48	(a)	(a)
Hong Kong (re-exports)							
Spelter .. .. .	(a)	(a)	(a)	(a)	37	64	} 1,446
Sheets .. .. .	(a)	(a)	(a)	(a)	1,197	3,991	
India—							
Spelter, etc. .. .. .	6	1	—	—	—	2	10
Malaya (e)—							
Sheets .. .. .	(a)	(a)	(a)	(a)	19	104	164
Australia—							
Ores and concentrates (Zn content) (f) .. ..	34,515	112,065	130,661	94,957	95,144	90,114	84,309
Dust (£ Australian) .. ..	(£583)	(£469)	(£1,178)	(£95)	(£2,448)	122	46
Blocks .. .. .	15,059	38,520	60,493	58,021	49,821	28,408	33,715
Plates and strips .. .. .	14	4	9	172	1,223	1,871	1,535
FOREIGN COUNTRIES							
Austria—							
Ore .. .. .	} (a)	(a)	(a)	(a)	(a)	} 6,430	2,337
Spelter and alloys .. ..							2
Scrap .. .. .							192
Zinc-white and zinc-grey Lithopone .. .. .							298
Lithopone .. .. .						98	177
Belgium-Luxemburg E.U.—							
Ore .. .. .	—	30	104	} (a)	(a)	} 32,301	41,690
Spelter .. .. .	32,407	38,656	10,793				
Scrap .. .. .	—	—	—				
Sheets, tubes and wire ..	528	1,600	760				
Dust .. .. .	331	69	39				
Oxide .. .. .	196	780	633				
Lithopone .. .. .	108	823	—				7,760
							8,693

- (a) Information not available.  
(b) Years ended March 31 following that stated.  
(c) Nine months ended March 31, 1943.  
(d) Recorded as "Spelter" in trade returns.  
(e) Including re-exports.  
(f) Years ended June 30 of year stated.

EXPORTS OF ZINC (Cont.)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948	
<b>FOREIGN COUNTRIES (Cont.)</b>								
<b>Czechoslovakia—</b>								
Ore .. .. .	(a)	(a)	(a)	(a)	(a)	—	(e) 2,993	
Spelter, scrap and alloys							(e) 72	
Sheets and plates ..							(e) 267	
Zinc-white and zinc-grey							(e) 333	
Lithopone .. ..							(e) 1,025	
<b>Denmark—</b>								
Spelter .. .. .	—	232	1	—	184	189	238	
Scrap .. .. .	1,735	1,347	1,238	390	1,099	597	759	
<b>Finland—</b>								
Concentrates .. ..	(a)	7,147	3,947	—	3,486	4,029	10,785	
Spelter and scrap ..	8	1	4	3	—	—	—	
<b>France—</b>								
Ore .. .. .	2,980	23	—	—	3,432	1,677	—	
Spelter, bars and scrap	1,237	3,221	—	4	54	113	(a)	
Sheets .. .. .	506	182	—	118	853	1,808	(a)	
Oxide .. .. .	138	1	—	77	398	1,163	1,614	
Lithopone, etc. .. .	93	—	—	3	150	153	(a)	
<b>Germany—</b>								
Ore .. .. .	3,706	1,964	(b) —	(a)	(a)	(a)	(a)	
Spelter, dust, scrap and alloys .. .. .	30,719	35,738	(b) 16,324					
Sheets and wire .. .	18,492	13,636	(b) 6,874					
Zinc-white and zinc-grey and lithopone ..	34,530	35,326	(b) 15,902					
<b>Greece—</b>								
Ore .. .. .	(d) 1,000	(d) 1,000	(d) 2,000	—	(a)	(a)	(a)	
<b>Italy—</b>								
Ore .. .. .	67,654	(c) 12,010	(a)	(a)	24,802	68,143	90,304	
Spelter, scrap and alloyed	30	246	—	—	4,331	604	7,082	
Sheets, wire and alloyed, etc. .. .. .	216	10	—	—	305	96	113	
Oxide .. .. .	(a)	(a)	(a)	(a)	(a)	246	161	
Lithopone .. .. .	(a)	(a)	(a)	(a)	(a)	169	1,622	
<b>Netherlands—</b>								
Spelter .. .. .	3,941	2,870	(a)	(a)	3,338	4,731	785	
Scrap .. .. .								1,103
Sheets .. .. .								
<b>Norway—</b>								
Ore .. .. .	—	—	—	2,053	5,659	7,379	640	
Electrolytic zinc ..	3,271	14,668	9,251	7,044	23,868	23,579	29,859	
Bars, sheets, wire, etc. ..	—	—	—	86	361	6	2	
Ashes and scrap .. .	146	101	280	134	507	236	360	
<b>Poland—</b>								
Spelter, dust and scrap	(a)	(a)	(a)	(a)	(a)	13,968	(a)	
Sheets, tubes and wire ..	(a)	(a)	(a)	(a)	6,916	26,066	(a)	
Oxide .. .. .	(a)	(a)	(a)	(a)	(a)	7,994	(a)	
Lithopone .. .. .	(a)	(a)	(a)	(a)	(a)	638	(a)	
<b>Portugal—</b>								
Bars .. .. .	7	7	3	14	27	10	139	
Zinc-white .. .. .	86	62	33	23	18	27	33	
<b>Spain—</b>								
Blende .. .. .	29,422	26,241	14,117	6,148	45,074	52,043	49,897	
Bars, scrap, sheets, wire, etc. .. .. .	355	473	949	1,049	783	1,022	917	
<b>Sweden—</b>								
Ore .. .. .	71,695	58,448	42,364	49,887	95,030	75,337	73,506	
Spelter .. .. .	29	4	13	8	63	—	10	
Scrap .. .. .	767	654	36	—	332	158	2,123	
Zinc-white .. .. .	—	—	—	1	4	13	—	

(a) Information not available.

(b) January to July only.

(c) January to June only.

(d) Imports into Germany from Greece.

(e) January to October only.

## EXPORTS OF ZINC (Cont.)

Exporting Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
<b>Switzerland—</b>							
Spelter and scrap ..	7	—	—	—	522	1,514	1,319
Zinc-white, etc. ..	28	1	1	2	7	46	89
<b>Algeria—</b>							
Ore .. .. .	7,886	8,681	191	197	983	17,244	12,752
Spelter, plates and scrap	79	5	82	287	90	180	291
Oxide .. .. .	—	—	—	2	—	13	40
<b>Belgian Congo—</b>							
Ore .. .. .	15,045	21,082	408	27,494	(a)	84,662	111,030
<b>Morocco (French)—</b>							
Ore .. .. .	(a)	(a)	(a)	(a)	(a)	(a)	(a)
<b>Tunis (including re-exports)</b>							
Ore .. .. .	2,686	—	—	492	2,810	6,939	5,281
<b>Mexico—</b>							
Ores and concentrates ..	268,396	294,237	314,429	318,453	228,571	285,780	235,178
Refined .. .. .	37,424	47,476	39,024	38,880	41,162	38,808	42,376
Zn content (c) .. .. .	175,062	185,440	195,965	200,075	128,143	(a)	(a)
Zinc oxide (metallurgical)	—	3,786	3,568	67	207	(a)	(a)
<b>United States—</b>							
Ore and dross .. .. .	—	1	—	—	(a)	(b) 1,253	3,167
Spelter .. .. .	119,587	87,000	19,265	6,947	(a)	95,241	58,712
Sheets, strips, etc. ..	3,464	1,756	3,039	4,838	(a)	7,099	5,696
Dust .. .. .	1,582	5,231	263	295	(a)	1,470	796
Oxide .. .. .	5,369	5,375	4,921	6,341	9,781	17,037	7,716
Lithopone .. .. .	15,211	15,466	10,314	10,336	8,617	12,190	18,763
<b>Argentina—</b>							
Ore .. .. .	56,743	77,354	33,121	—	45,636	} (a)	(a)
Slag and ash .. .. .	—	—	—	—	—		
Spelter, bars and sheets	5	5	3	—	5		
<b>Bolivia—</b>							
Ores (Zn content) ..	10,737	20,741	16,061	20,644	18,885	14,381	20,789
<b>Chile—</b>							
Bars .. .. .	—	73	123	187	126	(a)	(a)
<b>Peru—</b>							
Ores, etc. (Zn content) ..	25,064	25,987	31,902	44,797	51,385	} 58,806	46,237
Bars (Zn Content) ..	939	1,205	1,428	1,558	921		
<b>French Indo-China—</b>							
Spelter and scrap .. .. .	} 3,300	2,608	—	(a)	247	48	109
Sheets .. .. .							
<b>Japan—</b>							
Spelter .. .. .	3,919	5,474	—	—	2,461	18,149	16,512
Oxide .. .. .	(a)	(a)	(a)	(a)	(a)	98	(a)
<b>Turkey—</b>							
Ore .. .. .	2,300	—	—	—	72	7,005	103

(a) Information not available.

(b) Zn content.

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

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

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>BRITISH COUNTRIES</b>							
United Kingdom—							
Ore and concentrates ..	142,716	97,124	179,033	153,566	165,497	130,384	156,538
Ingots, bars, etc. ..	211,671	187,569	119,316	88,288	49,394	148,720	167,758
Sheets, plates, etc. ..	9	3	8	4	(b) 14	13	(a)
Oxide .. ..	5	4	—	—	—	—	49
Lithopone .. ..	—	—	—	—	70	270	1,202
Anglo-Egyptian Sudan							
Unwrought incl. scrap ..	(a)	16	4	13	19	34	6
Kenya and Uganda—							
Bars, plates and sheets ..	7	2	1	11	13	11	17
Southern Rhodesia—							
Sheets, dust, etc. ..	462	319	433	275	352	315	289
South West Africa—							
Spelter, sheets, etc. ..	—	—	—	—	2	(a)	(a)
Union of South Africa—							
Spelter .. ..	8,670	5,601	9,786	9,413	9,582	(a)	(a)
Sheets .. ..	121	26	36	47	179	(a)	(a)
Dust and shavings ..	611	438	395	10	21	(a)	(a)
Canada—							
Spelter .. ..	5,205	12,088	3,966	—	—	—	(b) 2
Dust .. ..	3	3	18	21	16	171	213
Sheets, plates, bars, etc. ..	449	503	512	1,761	1,933	1,704	2,633
Zinc-white .. ..	925	990	779	1,043	826	1,968	1,547
Lithopone .. ..	8,927	7,926	8,482	9,078	7,909	11,372	13,203
Newfoundland (d)—							
Bars, sheets, etc. ..	(a)	(a)	62	51	47	19	22
Ceylon—							
Blocks, ingots, etc. ..	1	1	1	—	1	—	—
Sheets and plates ..	1	21	45	—	9	76	16
Hong Kong (total imports)—							
Spelter .. ..	(a)	(a)	(a)	(a)	108	339	} 1,097
Sheets .. ..	(a)	(a)	(a)	(a)	2,095	3,130	
India—							
Spelter .. ..	13,381	3,441	1,890	6,045	42,148	35,823	32,723
Sheets, etc. .. ..	937	279	461	1,076	1,335	1,586	1,722
Zinc-white .. ..	179	70	52	185	938	968	1,558
Lithopone .. ..	1,535	1,382	1,477	1,124	723	719	1,462
Malaya (total imports)—							
Sheets .. ..	(a)	(a)	(a)	(a)	254	958	538
Palestine—							
Spelter and sheets ..	15	46	27	104	783	(a)	(a)
Lithopone .. ..	67	87	155	109	163	(a)	(a)
Australia—							
Dust (£ Aust.) .. ..	(£5)	(£51)	(£103)	—	(£1)	—	(£3)
Blocks, sheets, scrap, etc.	55	1,154	68	20	71	73	115
Oxides .. ..	62	18	229	608	1,102	105	20
Lithopone .. ..	1,274	1,625	248	999	1,257	1,149	2,088
New Zealand—							
Spelter, bars and sheets	1,665	805	395	134	493	1,236	943
Irish Republic—							
Sheets and plates ..	145	167	123	144	387	622	435

(a) Information not available.

(b) Excess of re-exports.

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

## IMPORTS OF ZINC (Cont.)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948						
FOREIGN COUNTRIES													
Austria—													
Spelter and alloys ..	(a)	(a)	(a)	(a)	(a)	{	1,722						
Sheets, bars, etc. ..								2,189	29				
Zinc-white .. ..								22	—				
Lithopone .. ..								32	8				
						11							
Belgium-Luxemburg E.U.—													
Ore .. ..	72,806	28,707	3,002	50,912	216,456	284,114	363,685						
Spelter .. ..	} 2,004	1,132	730	} 2,961	{	(a)	{						
Scrap .. ..								18	2	1	(a)	(a)	1,981
Sheets, tubes and wire ..								281	—	1	(a)	(a)	778
Dust .. ..								223	176	24	(a)	(a)	(a)
Oxide .. ..								811	215	175	(a)	(a)	64
Lithopone .. ..											(a)	(a)	24
Bulgaria—													
Spelter, bars, sheets and scrap .. ..	2,067	1,665	392	201	261	} (a)	(a)						
Zinc-white .. ..	573	612	15	12	—								
Lithopone .. ..	404	455	213	24	131								
Czechoslovakia—													
Spelter and alloys ..	(a)	(a)	(a)	(a)	1,998	22,944	(c) 19,879						
Scrap .. ..	(a)	(a)	(a)	(a)	—	408	(c) —						
Zinc-white, zinc-grey, etc.	(a)	(a)	(a)	(a)	96	44	(c) 1,006						
Denmark—													
Spelter .. ..	2,178	4,001	1,797	2,308	4,803	5,293	5,636						
Scrap .. ..	212	61	154	23	10	37	127						
Plates and sheets ..	2,454	2,876	3,088	527	6,425	7,299	5,078						
Zinc-white .. ..	1,233	1,628	1,707	1,019	3,369	2,911	3,129						
Lithopone .. ..	2,523	2,124	2,068	177	710	998	2,325						
Finland (total imports)—													
Spelter .. ..	1,799	3,007	1,247	107	1,700	4,309	1,684						
Scrap .. ..	434	—	—	1	—	1	50						
Sheets .. ..	911	1,074	589	—	131	307	461						
Zinc-white .. ..	304	259	7	5	266	767	1,049						
France—													
Ore .. ..	37,675	20,428	461	55,094	67,819	92,014	56,946						
Spelter, bars and scrap ..	2,302	1,638	770	8,770	51,554	59,490	37,890						
Sheets .. ..	371	625	67	12	29	4	161						
Oxide .. ..	3,422	3,366	340	1,340	3,059	5,295	2,107						
Lithopone .. ..	5,460	4,112	706	100	356	2,046	2,021						
Germany—													
Ores .. ..	140,271	86,084	(b) 35,403	} (a)	(a)	(a)	(a)						
Spelter, dust, scrap and alloys .. ..	21,554	26,821	(b) 8,527										
Sheets and wire .. ..	788	263	(b) 11										
Zinc-white and zinc-grey	41	481	(b) 506										
Lithopone .. ..	1,306	1,020	(b) 206										
Greece—													
Spelter, etc. .. ..	(a)	(a)	(a)	2	138	231	(a)						
Iceland—													
Zinc-white .. ..	147	48	35	284	85	(a)	(a)						
Lithopone .. ..	64	111	50	63	16	(a)	(a)						
Italy—													
Ore and ashes .. ..	(a)	(a)	(a)	(a)	(a)	1	132						
Spelter, matte and alloyed .. ..	2,155	3,455	(a)	—	59	2,987	1,382						
Sheets, wire, etc., and alloyed .. ..	1,180	1,230	(a)	—	—	28	1,465						
Oxide .. ..	1,005	(a)	(a)	(a)	(a)	11	346						
Lithopone .. ..	(a)	(a)	(a)	(a)	(a)	46	145						

(a) Information not available.

(b) January to July only.

(c) January to October only.

## IMPORTS OF ZINC (Cont.)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948	
<b>FOREIGN COUNTRIES (Cont.)</b>								
Netherlands—								
Ore .. .. .	5,990	8,475	(a)	(a)	22,840	18,478	24,676	
Spelter .. .. .	} 5,972	} 2,387	(a)	(a)	6,460	6,951	8,042	
Scrap .. .. .			(a)	(a)	325	411	101	
Sheets .. .. .			537	492	(a)	(a)	5,540	(a) 585
Zinc-white .. .. .			808	846	(a)	(a)	—	242
Lithopone .. .. .	699	334	(a)	(a)	—	142	134	
Oxide .. .. .	—	—	(a)	(a)	—	225	(a)	
Norway—								
Ore .. .. .	22,314	23,705	19,301	18,975	72,200	81,645	61,013	
Ashes and scrap .. .. .	97	14	463	591	434	329	300	
Spelter .. .. .	499	1,534	2,165	1,489	348	76	15	
Bars and sheets .. .. .	561	11	107	14	187	81	86	
Zinc-white .. .. .	571	281	567	136	951	4,235	1,232	
Lithopone .. .. .	500	404	146	24	276	770	452	
Poland								
Ores and slag .. .. .	(a)	(a)	(a)	—	1,945	39,030	(a)	
Portugal—								
Sheets, etc. .. .. .	589	563	613	817	1,791	1,561	1,069	
Oxide .. .. .	718	709	422	701	1,975	1,590	1,260	
Lithopone .. .. .	949	991	416	98	162	411	586	
Spain—								
Bars and scrap .. .. .	1,448	254	5	3	2,225	656	98	
Sweden—								
Ore .. .. .	1,494	—	—	—	—	—	—	
Spelter .. .. .	11,893	15,180	10,192	6,464	25,037	19,209	19,484	
Scrap .. .. .	39	1	1	—	258	282	59	
Sheets .. .. .	1,875	1,212	1,372	214	3,538	3,091	3,036	
Zinc-white .. .. .	3,088	4,337	5,066	6,404	10,496	11,076	7,150	
Lithopone, etc. .. .. .	4,654	5,693	6,340	630	3,464	3,703	5,634	
Switzerland—								
Spelter and scrap .. .. .	6,726	5,887	4,071	1,860	10,873	11,981	14,903	
Dust .. .. .	353	113	—	529	417	1,086	605	
Bars, sheets, pipes and wire .. .. .	2,584	635	627	235	1,664	1,921	1,432	
Zinc-white, lithopone, etc. .. .. .	2,842	3,097	1,996	1,245	5,177	5,115	4,987	
Algeria—								
Spelter, sheets and scrap .. .. .	180	14	361	11	571	923	(a)	
Oxide .. .. .	117	58	165	202	379	741	614	
Lithopone, etc. .. .. .	70	138	68	24	—	49	284	
Angola—								
Bars, sheets and tubes .. .. .	3	4	25	5	51	36	(a)	
Egypt—								
Spelter, sheets and scrap .. .. .	77	46	382	125	545	859	408	
Zinc-white .. .. .	253	74	187	1,447	626	572	1,366	
Lithopone .. .. .	128	29	38	139	63	49	154	
Madagascar—								
Spelter, bars and sheets .. .. .	(a)	—	(a)	32	65	200	65	
Oxide .. .. .	(a)	(a)	(a)	14	8	2	44	
Morocco (French)—								
Spelter, sheets and wire .. .. .	12	56	—	18	54	26	(a)	
Lithopone .. .. .	125	—	53	144	198	225	(a)	
Morocco (Spanish)—								
Spelter and sheets .. .. .	(a)	(a)	29	43	22	164	(a)	
Lithopone .. .. .	(a)	(a)	3	2	1	3	(a)	
Mozambique—								
Spelter, bars and sheets .. .. .	8	2	1	30	26	12	(a)	
Tunis—								
Sheets .. .. .	135	—	42	76	187	396	88	
Oxide .. .. .	2	—	—	(a)	(a)	(a)	(a)	

(a) Information not available.

## IMPORTS OF ZINC (Cont.)

Importing Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>FOREIGN COUNTRIES (Cont.)</b>							
<b>Cuba (total imports)—</b>							
Sheets .. .. .	38	45	74	101	(a)	(a)	(a)
<b>Mexico—</b>							
Spelter, sheets and scrap	725	842	701	530	474	(a)	(a)
Zinc-white .. .. .	515	272	591	95	104	(a)	(a)
<b>United States—</b>							
Ore (Zn content) .. .. .	339,238	490,206	371,979	301,375	176,664	261,436	155,760
Spelter .. .. .	32,457	50,138	56,410	86,133	(a)	61,597	83,562
Dross and scrap .. .. .	3,465	4,615	5,003	6,517	(a)	4,490	7,711
Sheets .. .. .	45	—	14	—	(a)	7	107
Dust .. .. .	651	93	—	324	(a)	—	36
Oxide .. .. .	13	19	5	—	(a)	105	(a)
<b>Argentina—</b>							
Spelter and bars .. .. .	2,051	568	749	2,971	7,558	} (a)	(a)
Sheets and plates .. .. .	660	675	912	1,454	3,695		
Zinc-white .. .. .	617	375	105	322	1,018		
Lithopone, etc. .. .. .	3,058	2,892	144	86	509		
<b>Brazil (total imports)—</b>							
Bars, sheets and plates ..	1,840	3,168	3,684	2,016	4,103	3,139	(a)
Zinc-white .. .. .	2,292	1,846	1,663	4,040	4,126	7,412	(a)
<b>Chile—</b>							
Spelter .. .. .	1,898	279	970	520	1,572	900	1,094
Bars, sheets, etc. .. .. .	737	245	23	22	329	(a)	(a)
Zinc-white and lithopone	1,104	1,385	874	1,553	1,289	(a)	(a)
<b>Colombia—</b>							
Spelter, sheets, alloys, etc.	179	121	(a)	174	120	(a)	(a)
Zinc-white, etc. .. .. .	78	759	120	291	331	(a)	(a)
<b>Peru—</b>							
Spelter, bars, sheets and powder .. .. .	42	49	13	134	50	(a)	(a)
Zinc-white and lithopone	221	146	200	381	505	(a)	(a)
<b>Uruguay—</b>							
Spelter .. .. .	(a)	} 78	} 107	} (a)	(a)	(a)	(a)
Sheets .. .. .	(a)						
Lithopone .. .. .	(a)						
Zinc-oxide .. .. .	(a)						
<b>Venezuela—</b>							
Spelter .. .. .	100	—	—	4	1	3	(a)
Zinc-white .. .. .	140	332	—	272	198	210	(a)
<b>China—</b>							
Spelter and dust .. .. .	(a)	(a)	(a)	(a)	6,174	5,054	(a)
Zinc-white .. .. .	(a)	(a)	(a)	(a)	2,541	2,520	(a)
<b>Iran (total imports) (b)—</b>							
Spelter, sheets and wire	34	—	—	(a)	38	177	(a)
<b>Iraq—</b>							
Spelter, sheets, etc. .. ..	13	9	7	11	(a)	(a)	(a)
<b>Japan—</b>							
Ore .. .. .	9,987	11,627	17,578	(a)	—	1,149	1,746
Spelter .. .. .	3,346	3,396	636	5	(a)	742	(a)
<b>Syria and Lebanon—</b>							
Spelter .. .. .	—	1	—	7	—	(a)	(a)
Sheets .. .. .	—	3	1	7	143	(a)	(a)
<b>Turkey—</b>							
Spelter .. .. .	(a)	(a)	5	3	218	328	113
Bars, tubes, and wire .. ..	(a)	(a)	317	207	2,355	2,154	1,239
Oxide .. .. .	(a)	(a)	26	65	391	1,023	1,050
Lithopone .. .. .	(a)	(a)	44	—	264	417	463

(a) Information not available.

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



## MISCELLANEOUS MINERALS

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

Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>SELENIUM</b>							
<b>PRODUCTION—</b>							
Northern Rhodesia Lb.	—	—	—	—	(b) 108,889	11,826	21,132
Canada .. .. Lb.	495,369	374,013	298,592	379,187	521,867	501,090	390,894
Finland .. .. Lb.	(a)	(a)	(a)	(a)	(a)	(a)	2,075
Sweden (exports) Lb.	130,088	126,082	100,839	750	122,246	89,098	50,521
Mexico (exports) Lb.	(c) 248,375	—	—	—	—	(a)	(a)
United States .. Lb.	506,426	635,581	485,446	458,486	291,103	512,648	503,282
Japan .. .. Lb.	(a)	(a)	(a)	(a)	(a)	6,548	10,053
<b>EXPORTS—</b>							
Canada (d) .. Lb.	225,127	211,530	250,404	442,084	723,490	673,588	447,885
Sweden .. .. Lb.	130,088	126,082	100,839	750	122,246	89,098	50,521
Mexico .. .. Lb.	(c) 248,375	—	—	—	—	(a)	(a)
<b>IMPORTS—</b>							
United Kingdom Lb.	123,220	104,757	81,497	142,816	168,004	142,932	150,350
Czechoslovakia .. Lb.	(a)	(a)	(a)	(a)	4,850	12,346	(h) 2,205
Portugal .. .. Lb.	500	(a)	(a)	(a)	2,020	(a)	(a)
Sweden .. .. Lb.	60	141	9	—	2,017	1,105	1,241
United States .. Lb.	83,666	81,720	97,800	(d) 219,215	(d) 475,081	(d) 529,175	(d) 267,116
Brazil .. .. Lb.	5,159	2,646	3,761	3,100	5,723	5,384	9,270
Peru (d) .. .. Lb.	60	201	410	110	617	(a)	(a)
<b>TELLURIUM</b>							
<b>PRODUCTION—</b>							
Canada .. .. Lb.	11,084	8,600	10,661	484	15,848	9,194	11,425
United States .. Lb.	224,132	56,174	69,025	80,750	3,765	45,248	62,593
Peru .. .. Lb.	—	—	755	1,020	(a)	(a)	(a)
<b>ZIRCONIUM MINERALS</b>							
<b>PRODUCTION—</b>							
India .. .. Ton	273	—	755	1,020	466	(a)	(a)
<b>Malaya—</b>							
Zircon .. .. Ton	(e) 183	(e) 183	(e) 183	(e) 183	—	—	—
Zircon-monzonite Ton	(e) 52	(e) 52	(e) 52	(e) 52	—	—	—
<b>Australia—</b>							
Zircon (f) .. Ton	11,218	10,334	14,000	15,180	12,403	21,576	21,811
Zircon concentrates (g) Ton	2,038	1,051	3,549	6,417	8,313	15,391	19,056
Egypt .. .. Ton	38	—	12	10	4	—	93
French West Africa Ton	207	66	—	—	—	38	188
Madagascar .. Ton	—	—	—	3	—	—	—
Brazil (exports) .. Ton	16,844	4,843	2,118	746	4,382	3,915	3,581
<b>EXPORTS—</b>							
<b>India—</b>							
Zircon sand .. Ton	—	—	—	—	279	6,499	(a)
<b>Australia—</b>							
Zircon .. .. Ton	(a)	55	2,813	(a)	7,571	8,832	12,887
Zircon-rutile .. Ton	(a)	9,409	7,415	(a)	5,768	10,370	4,160
Zircon-rutile-ilmenite Ton	(a)	9,119	12,814	(a)	2,458	2,063	180
<b>French West Africa—</b>							
Zircon-ilmenite Ton	2,550	—	—	—	(a)	(a)	(a)
Brazil .. .. Ton	16,844	4,843	2,118	746	4,382	3,915	3,581

(a) Information not available.

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

(c) Selenium content of smelter residues.

(d) Including salts.

(e) Average annual production during Japanese occupation.

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

(g) Zircon content included above and *not* additional.

(h) January to October only.

## MISCELLANEOUS MINERALS (Cont.)

Country and Description	1942	1943	1944	1945	1946	1947	1948
<b>ZIRCONIUM MINERALS</b>							
<i>(Cont.)</i>							
<b>IMPORTS—</b>							
United Kingdom Ton	300	33	48	345	814	598	2,654
Canada—							
Zirconium oxide £	2,406	3,404	3,663	9,240	12,783	15,444	8,541
Zirconium silicate £	8,500	9,381	6,055	4,375	6,203	9,271	12,239
United States—							
Zirconium ore (c) Ton	30,273	25,368	21,458	23,634	15,013	27,407	14,970
Zircon .. Ton	10,126	10,243	10,104	15,307	10,303	(a)	(a)
Baddeleyite .. Ton	13,646	7,974	(b) 2,082	707	2,171	4,124	3,172
<b>LITHIUM MINERALS</b>							
<b>PRODUCTION—</b>							
<b>South West Africa—</b>							
Amblygonite .. Ton	22	—	—	—	—	30	157
Lepidolite .. Ton	395	720	1,645	1,135	1,680	2,950	1,215
Petalite .. Ton	15	—	—	—	—	100	160
<b>Australia—</b>							
Amblygonite .. Ton	—	8	—	—	—	—	—
<b>France—</b>							
Lepidolite .. Ton	300	(a)	(a)	(a)	(a)	—	—
<b>Portugal—</b>							
Amblygonite .. Ton	(a)	89	98	2	—	—	—
Spain .. .. .	177	230	99	—	—	—	—
<b>Sweden—</b>							
Petalite .. Ton	218	307	145	—	—	—	—
Spodumene .. Ton	34	83	109	20	48	—	—
United States (d) Ton	4,826	7,281	11,892	2,184	2,737	2,179	2,849
<b>Argentina—</b>							
Spodumene .. Ton	—	74	(a)	(a)	(a)	(a)	(a)
<b>Brazil (exports)—</b>							
Amblygonite .. ..	(a)	500	(a)	(a)	(a)	(a)	(a)
Spodumene .. ..	(a)	325	(a)	(a)	(a)	(a)	(a)
Korea .. .. . Ton	(a)	(a)	752	(a)	(a)	(a)	(a)
<b>EXPORTS—</b>							
<b>South West Africa—</b>							
Lepidolite .. Ton	98	743	1,504	1,458	2,263	2,023	1,454
Petalite .. Ton	—	—	—	—	—	50	163
<b>Brazil—</b>							
Amblygonite .. ..	(a)	500	(a)	(a)	(a)	(a)	(a)
Spodumene .. ..	(a)	325	(a)	(a)	(a)	(a)	(a)
<b>VERMICULITE</b>							
<b>PRODUCTION—</b>							
Kenya .. .. . Ton	—	—	—	10	—	(4 cwt.)	—
Southern Rhodesia Ton	—	—	—	—	—	—	16
Tanganyika Territory Ton	—	—	—	—	50	—	—
Union of South Africa Ton	1,574	671	1,207	2,469	4,942	14,085	12,329
Australia .. Ton	178	363	123	59	203	82	151
United States (sales) Ton	51,650	41,647	48,318	57,864	77,134	117,308	123,781
<b>EXPORTS—</b>							
Union of South Africa Ton	(a)	100	179	593	1,551	7,602	7,520
<b>IMPORTS—</b>							
Canada .. .. . £	2,733	4,153	4,756	7,977	3,402	32,256	31,970

(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.

(d) Shipments. Including compounds.

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