

E.R.V

COLONIAL GEOLOGICAL SURVEYS
MINERAL RESOURCES DIVISION

STATISTICAL SUMMARY
OF THE
MINERAL INDUSTRY

PRODUCTION, IMPORTS AND EXPORTS
1945-1951

MINERAL RESOURCES
OVERSEAS GEOLOGICAL SURVEYS,
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1953
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COLONIAL GEOLOGICAL SURVEYS

MINERAL RESOURCES DIVISION

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(PRODUCTION, IMPORTS AND EXPORTS)

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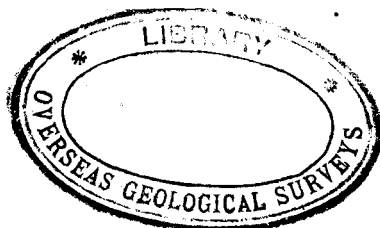
Errata

- Page 109 United Kingdom 1947—
for 15,114,602 read 15,721,644
- 170 India 1950—*for 17,407 read 17,047*
- 191 Australia 1946—*for (b) 7 read (b) 131*
„ 1947—*for 41 read (b) 820*
- 219 United States—Delete (b) against Motor
spirit
- 335 Canada—Tellurium 1951—
for 68,500 read 8,913

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LONDON: HER MAJESTY'S STATIONERY OFFICE

1953

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

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

All communications should be addressed to :—

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

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EXPLANATORY NOTES

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

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

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

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

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

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

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

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

ABRASIVES*

PRODUCTION OF NATURAL ABRASIVES

(Long tons)

Producing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Kenya—							
Corundum	—	—	—	—	—	2	—
Nyasaland—							
Corundum	323	379	—	—	88	184	106
Southern Rhodesia—							
Corundum	—	12	—	112	—	—	—
South West Africa—							
Corundum	—	—	—	—	—	10	—
Union of South Africa—							
Corundum	4,310	1,828	2,278	2,497	2,425	3,151	4,491
Canada—							
Corundum (Shipments)	1,176	662	—	—	—	—	(a)
Grindstones	201	263	299	196	174	89	(a)
Garnet	—	2	1	2	—	—	(a)
India—							
Corundum	403	95	179	280	194	299	548
Garnet sand	12	—	8	—	10	(a)	(a)
Malaya—							
Corundum	—	—	—	—	—	—	25
Australia—							
Emery	—	—	—	—	—	—	—
New Zealand—							
Pumice	2,183	3,409	3,389	6,863	13,124	9,716	8,774
FOREIGN COUNTRIES							
Belgium—							
Grindstones	(a)	142	41	(a)	32	36	63
France—							
Pumice	4,921	6,889	11,220	16,800	14,800	17,300	(a)
Tripoli	(a)	(a)	(a)	226	86	(a)	(a)
Millstones	2,256	7,510	17,400	16,730	12,530	3,196	(a)
Sharpening stones	2,533	1,673	690	344	50	394	(a)
Greece—							
Emery	550	6,000	9,094	9,025	9,783	5,000	(a)
Pumice	—	2,500	1,737	(a)	(a)	(a)	(a)
Italy—							
Pumice	2,672	7,382	28,820	31,003	75,663	(a)	(a)
Millstones	—	197	295	344	295	(a)	(a)
Sharpening stones	632	541	1,413	1,912	1,845	(a)	(a)
Whetstones	271	1,108	959	305	228	(a)	(a)
Norway (exports)—							
Millstones, grindstones, etc.	430	983	1,460	2,416	2,371	(a)	(a)
Portugal—							
Tripoli	978	596	1,576	3,506	1,216	1,224	1,034
Spain—							
Pumice	(a)	(a)	(a)	209	968	(a)	(a)
Tripoli	3,931	14,065	9,482	6,671	7,161	3,850	7,689
Garnet	101	229	142	188	177	(a)	(a)
Sweden—							
Millstones, etc.	62	—	—	—	—	(a)	(a)
Grindstones and whet- stones	2,059	2,714	1,099	1,512	964	(a)	(a)
Egypt—							
Pumice	935	1,220	2,490	787	443	354	(a)
Garnet	—	11	—	143	85	159	1

* See also Aluminium, Diamonds and Diatomaceous earth.

(a) Information not available.

PRODUCTION OF NATURAL ABRASIVES (Cont.)

Producing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
French Equatorial Africa—							
Corundum	140	45	2	—	—	—	—
Madagascar—							
Corundum	49	21	1	4	7	—	—
Garnet	(a)	(a)	89	131	411	510	727
Mozambique—							
Corundum	150	—	—	6	—	16	—
United States (Sales)—							
Emery	7,014	5,525	5,177	4,826	4,383	5,312	10,387
Garnet	5,630	6,913	7,788	7,178	5,873	8,307	12,545
Pumice	140,188	285,610	395,136	542,630	639,948	642,282	669,591
Tripoli	16,292	25,853	30,873	23,969	22,790	39,036	33,461
Grindstones	8,958	10,362	9,482	7,072	3,991	3,960	4,954
Pulpstones	(a)	64	68	29	25	29	20
Argentina—							
Pumice	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Turkey—							
Emery	2,134	8,318	11,903	7,737	8,771	1,399	7,247

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

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

	1945	1946	1947	1948	1949	1950	1951
Silicon carbide ..	40,553	44,601	46,164	47,229	41,427	39,965	62,752
Fused alumina ..	118,921	106,449	130,744	129,320	101,071	113,324	174,441

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

	1945	1946	1947	1948	1949	1950	1951
Silicon carbide ..	48,013	57,008	56,897	56,279	60,303	58,039	89,730
Aluminium oxide ..	131,264	117,932	142,877	138,368	112,327	125,314	193,151
Metallic abrasives ..	131,046	99,564	137,671	131,445	93,552	128,869	169,492

(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	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Abrasives, natural ..	84	251	484	1,716	1,923	1,923	2,674
do. artificial ..	1	69	256	1,091	1,702	1,232	1,184
Grinding wheels of—							
Artificial corundum, etc.	479	606	557	742	970	944	1,515
Carborundum ..	250	571	536	693	1,375	2,034	2,208
Emery ..	31	101	457	275	341	279	415
Other hard abrasives ..	537	832	1,203	717	901	1,051	1,618
Grindstones ..	1,085	2,848	} (b) 3,401	(b) 4,001	(b) 3,000	(b) 2,196	(b) 2,049
Whetstones ..	52	674					
Other manufactured abrasives—							
Natural ..	1,093	2,870	} 2,770	742	411	667	1,136
Artificial ..	536	1,032					
Nyasaland—							
Corundum ..	355	412	17	—	79	184	99
Union of South Africa—							
Corundum ..	4,144	1,737	2,212	3,006	1,918	2,917	4,649
Canada—							
Natural abrasives, including diatomaceous earth	11	5	54	15	7	6	19
Artificial abrasives ..	158,966	155,719	175,715	178,780	140,997	167,006	241,259
Artificial abrasive wheels, etc. ..	(£34,586)	(£20,210)	(£73,753)	(£42,076)	(£25,599)	(£20,850)	(£20,770)
Grindstones ..	(£4,386)	(£8,303)	(£6,175)	(£5,365)	(£5,649)	(£18,095)	(£24,450)
Cyprus—							
Pumice ..	102	—	—	4	(a)	(a)	(a)
India—							
Garnet sand ..	(a)	(a)	4	(a)	(a)	(a)	(a)
Palestine—							
Millstones ..	(£5,149)	(£4,568)	(a)	(a)	(a)	(a)	(a)
New Zealand—							
Pumice ..	2,185	2,545	2,410	1,735	1,419	1,329	1,238
FOREIGN COUNTRIES							
Austria—							
Emery, etc. ..	(a)	(a)	—	105	460	1,012	881
Grindstones, natural ..	(a)	(a)	20	—	—	28	2
do. artificial ..	(a)	(a)	(a)	(a)	359	389	391
Millstones ..	(a)	(a)	73	362	568	413	427
Belgium-LuxemburgE.U.—							
Corundum ..	(a)	(a)	(a)	40	2	3	11
Millstones and grindstones, natural ..	(a)	(a)	(a)	} 485	478	396	567
Millstones and grindstones, artificial ..	(a)	(a)	(a)				
Other abrasives ..	(a)	(a)	(a)	138	175	124	155
Bulgaria—							
Millstones, grindstones, etc. ..	235	29	(a)	(a)	(a)	(a)	(a)

* See also Aluminium, Diamonds and Diatomaceous earth.

(a) Information not available.

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

EXPORTS OF ABRASIVES (Cont.)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Czechoslovakia—							
Emery and pumice ..	(a)	1	2	(c) 1	(a)	(a)	(a)
Carborundum ..		2	1	(c) 528	(a)	(a)	(a)
Grindstones, etc., natural		15	12	(c) 13	(a)	(a)	(a)
do. carborundum ..		227	890	(c) 531	(a)	(a)	(a)
do. emery, etc. ..		22	28	(c) 660	(a)	(a)	(a)
Millstones ..		1	48	(c) 10	(a)	(a)	(a)
Other abrasives ..		—	1	(c) —	(a)	(a)	(a)
Denmark—							
Emery ..	1	5	2	9	17	16	20
Millstones and grindstones, natural ..	1	3	10	72	34	253	617
do. artificial ..	1	142	315	212	166		
Finland—							
Grindstones, etc. ..	25	113	242	433	629	316	352
France—							
Corundum and emery ..	12	37	228	146	222	254	271
Pumice ..	4	162	352	388	56	640	272
Tripoli ..	—	52	17	(a)	(a)	(a)	(a)
Millstones and grindstones ..	374	1,656	2,239	2,207	1,274	697	3,423
Whetstones ..	—	108	164	976	1,753	1,562	105
Artificial abrasives ..	1,010	4,348	1,737	(b) 98	(b) 26	(b) 47	(b) 33
Germany (Federal)—							
Emery ..	(a)	(a)	(a)	12	42	205	(d) 170
Carborundum, etc. ..				3	1,692	3,871	(d) 4,744
Other abrasives ..				1,400	1,065	3,873	(d) 4,422
Millstones, grindstones, etc. ..				447	1,162	1,464	4,801
Greece—							
Emery ..	—	4,084	3,353	5,274	5,016	8,021	9,917
Pumice ..	(a)	—	2	1,980	3,881	22,474	9,999
Italy—							
Pumice ..	(a)	(a)	17,868	16,328	20,880	26,781	24,465
Emery and corundum ..	(a)	(a)	5	7	106	8	7
Tripoli ..	(a)	(a)	(a)	(a)	(a)	(a)	87
Artificial abrasives ..	(a)	(a)	5	113	597	100	292
Netherlands—							
Emery ..	(a)	1,096	1,710	1,795	1,876	2,961	3,030
Norway—							
Emery, etc. ..	9	12	2	5	94	195	(a)
Millstones, grindstones, etc. ..	430	983	1,460	2,416	2,371	(a)	(a)
Whetstones ..	24	37	28	7	9	21	(a)
Other artificial abrasives	42	154	163	224	289	301	225
Sweden—							
Emery ..	17	—	2	—	1	15	4
Other natural abrasives ..	40	7	3	15	5	37	5
Carborundum, etc. ..	39	158	393	67	124	343	440
Millstones, grindstones, etc. ..	677	1,009	1,304	1,174	549	639	840
Switzerland—							
Carborundum, emery, etc., crude ..	39	—	35	52	28	52	24
do. do. ground ..	296	768	1,244	1,956	1,912	1,541	2,176
Grindstones ..	—	16	34	179	12	4	4
Millstones ..	—	2	7	—	25	4	16

(a) Information not available.

(b) Carborundum only.

(c) January to October only.

(d) January to September only.

EXPORTS OF ABRASIVES (Cont.)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Madagascar—							
Corundum	35	10	12	11	(a)	—	(a)
Garnet	(a)	40	40	125	(a)	559	(a)
Mozambique—							
Corundum	265	55	—	—	—	—	32
Costa Rica—							
Millstones	52	75	40	105	(a)	(a)	(a)
Mexico—							
Pumice	—	18	13	11	(a)	(a)	(a)
Emery, etc.	—	3	(a)	(a)	—	—	(a)
Millstones, whetstones, etc.	8	8	3	1	—	5	(a)
United States—							
Emery powder	146	236	244	124	515	508	686
Wheels of emery and corundum	111	193	201	57	—	—	—
Grindstones	2,098	2,739	2,050	1,289	628	459	600
Other natural abrasives..	24,352	23,608	31,245	26,901	34,154	36,466	42,019
Aluminium oxide, fused					17,822	14,250	15,185
Silicon carbide					5,638	4,815	6,593
Unfused alumina					93	113	79
Other crude artificial abrasives	27,974	21,130	25,375	21,669	733	43	101
Artificial abrasive wheels	7,684	4,152	4,550	3,017	2,375	1,709	2,776
Artificial hones, whet- stones, etc.	463	806	749	435	839	902	1,303
Turkey—							
Emery and carborundum	4,999	10,179	11,218	9,575	8,445	8,205	10,717

(a) Information not available.

IMPORTS OF ABRASIVES *

(Less Re-exports)

(Long tons)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Emery	4,311	5,364	6,781	6,348	5,453	6,227	6,926
Garnet concentrates—							
Unground	(a)	550	559	511	525	674	1,051
Ground	(a)	—	113	230	197	465	252
Other natural abrasives	509	2,296	2,262	2,679	5,449	6,439	6,707
Aluminium oxide ..	3,500	11,616	18,794	18,050	20,418	23,077	30,226
Carborundum, unground	123	302	400	174	142	98	} 10,753
do. ground .. .	4,814	6,400	9,191	5,441	9,112	9,524	
Grinding wheels of—							
Artificial corundum,							
etc.	29	2	27	54	24	} 14	} 2
Carborundum ..	1	1	—	12	16		
Emery	8	1	—	—	—		
Other hard abrasives	34	5	48	112	55		
Grindstones and whet-							
stones	2	6	5	7	5	13	—
Other manufactured							
abrasives—							
Natural	1,062	1,738	} 6,859	6,286	3,028	1,625	57
Artificial	1,523	3,110					
Anglo-Egyptian Sudan—							
Grindstones	13	24	18	38	68	22	(a)
Kenya and Uganda—							
Grindstones, etc. ..	1	14	—	28	33	30	28
Mauritius—							
Grindstones, etc. ..	(£1,576)	(a)	(£1,123)	(a)	(£1,537)	(£1,115)	14
Tanganyika—							
Grindstones, wheels, etc.	107	6	9	13	20	14	13
Union of South Africa—							
Emery	38	39	35	36	20	20	(a)
Pumice	71	98	68	54	94	103	(a)
Other abrasives (£S.A.)	(£12,205)	(£10,038)	(£19,642)	(£21,049)	(£15,928)	(£26,715)	(a)
Emery and other wheels							
(£ S.A.)	(£127,601)	(£76,837)	(£138,867)	(£125,635)	(£147,742)	(£221,078)	(a)
Grindstones, millstones,							
etc. (£ S.A.)	(£9,496)	(£9,512)	(£8,079)	(£4,989)	(£2,385)	(d) (£99)	(a)
Canada (c)—							
Pumice, etc.	(£10,122)	(£16,888)	(£15,400)	(£26,969)	(£28,185)	(£42,067)	(£43,714)
Emery, ground	(£18,164)	(£26,894)	(£30,685)	(£35,367)	(£30,940)	(£35,161)	(£54,276)
Artificial abrasives, ground	(£363,061)	(£373,150)	(£396,638)	(£367,103)	(£396,744)	(£623,363)	(£686,134)
Buhrstones	(£175)	(£26)	(£400)	(£86)	(£460)	(£477)	(£424)
Emery and artificial abra-							
sives manufactures ..	(£18,164)	(£24,126)	(£25,619)	(£25,148)	(£29,144)	(£41,104)	(£52,812)
Grindstones and wheels	(£107,243)	(£128,480)	(£159,307)	(£177,795)	(£213,555)	(£357,155)	(£554,959)
Newfoundland (b)—							
Grindstones	(£10,898)	(£16,992)	(£12,514)	(£3,393)	(b)	(b)	(b)
Whetstones, etc. ..	(£913)	(£1,165)	(£934)	(£344)	(b)	(b)	(b)
British West Indies—							
Jamaica—							
Natural abrasives ..	(a)	(a)	(£33)	(£10)	(£194)	(£345)	(£131)
Grindstones	(£650)	(£445)	(£1,145)	(£1,129)	(£1,081)	(£850)	(£941)

* See also Aluminium, Diamonds and Diatomaceous earth.

(a) Information not available.

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

(c) Including Newfoundland from April 1, 1949.

(d) Excess of re-exports.

IMPORTS OF ABRASIVES (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951																																				
BRITISH COUNTRIES (Cont.)																																											
British West Indies (Cont.)																																											
Trinidad and Tobago— Grindstones and wheels	16	(c) 207	13	395	16	22	25																																				
Ceylon— Grindstones	(£343)	(£1,675)	(£1,328)	(£1,785)	(£1,814)	(£7,896)	(£6,774)																																				
Cyprus— Grindstones and millstones	(£338)	(£9,236)	(£4,342)	(£4,208)	(£3,809)	(£3,041)	(£2,176)																																				
Palestine— Millstones	(£743)	(£7,353)	(a)	(a)	(a)	(a)	(a)																																				
Australia (d)— Emery, etc.	149	256	372	379	349	627	(e) 455																																				
Corundum								(£11,803)	(£12,615)	(£13,368)	(£8,561)	(£12,946)	(£8,129)	(c) (£18,026)																													
Pumice (£ Aust.)																																											
Grindstones, etc.																																											
Artificial abrasives	66	37	56	90	86	91	(a)																																				
New Zealand— Pumice	820	703	2,030	1,499	1,459	(c) 1,141	(e) 2,500																																				
Grindstones, etc. (£N.Z.)	—	—	2	1	1	8	—																																				
	(£13,492)	(£20,921)	(£26,423)	(a)	(£14,740)	(£15,915)	(£21,555)																																				
Irish Republic—																																											
Grindstones, oilstones, etc.	151	144	157	140	(a)	(a)	(a)																																				
FOREIGN COUNTRIES																																											
Austria—																																											
Emery, etc.	(a)	(a)	434	627	1,121	1,269	1,958																																				
Pumice, etc.								15	53	165	202	170	169																														
Grindstones, natural														240	292	116	129	137																									
do. artificial																			101	430	262	91	125																				
Millstones																								41	58	53	91	125															
Belgium-Luxemburg E.U.— Corundum, artificial	(a)	(a)	(a)	371	746	861	1,129																																				
Millstones and grindstones, natural	(a)	(a)	(a)	1,731	1,146	1,080	1,464																																				
do. artificial	(a)	(a)	(a)																																								
Silicon carbide	(a)	(a)	(a)	646	1,040	617	1,150																																				
Other abrasives	(a)	(a)	(a)	1,378	1,477	4,460	7,892																																				
Bulgaria—																																											
Emery, etc.	3	2	(a)	(a)	(a)	(a)	(a)																																				
Millstones, grindstones, etc.	10	—	(a)	(a)	(a)	(a)	(a)																																				
Czechoslovakia—																																											
Emery	(a)	10	—	(b) 10	(a)	(a)	(a)																																				
Pumice								—	20	(b) —	(a)	(a)	(a)																														
Carborundum														335	(b) 142	(a)	(a)	(a)	(a)																								
Grindstones, etc., natural																				25	202	(b) 296	(a)	(a)	(a)																		
do. carborundum																										—	1	(b) 22	(a)	(a)	(a)												
do. emery, etc.																																1	24	(b) 55	(a)	(a)	(a)						
Millstones																																						85	140	(b) 163	(a)	(a)	(a)
Other abrasives																																											
Denmark—																																											
Emery, etc.	7	332	379	419	322	448	610																																				
Pumice	—	258	339	358	667	242	581																																				
Carborundum	81	212	162	238	301	227	310																																				
Millstones and grindstones, natural	261	654	141	191	240	746	859																																				
do. artificial	124	440	433	361	344																																						

(a) Information not available.

(c) Excess of re-exports.

(e) Calendar year.

(b) January to October only.

(d) Years ended June 30 of that stated.

IMPORTS OF ABRASIVES (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Finland (total imports)—							
Emery, pumice, etc. ..	59	347	579	482	446	635	706
Carborundum, etc. ..	45	60	139	92	100	78	154
Millstones, etc. ..	—	1	1	13	—	15	20
Whetstones, grindstones, etc. ..	191	634	1,015	2,075	1,787	1,050	1,676
France—							
Corundum and emery ..	576	2,072	3,232	2,761	854	1,953	2,748
Pumice	—	2,046	4,978	2,322	1,414	5,928	8,720
Tripoli	(a)	(a)	550	(a)	(a)	(a)	(a)
Millstones and grindstones	42	75	358	184	176	151	846
Whetstones	—	38	104	305	329	556	172
Carborundum	484	1,817	2,185	946	2,105	2,016	3,002
Other artificial abrasives	1,211	1,502	2,233	(a)	(a)	(a)	(a)
Germany (Federal)—							
Emery	(a)	(a)	(a)	80	722	2,025	8,083
Pumice, etc.				(a)	4,256	6,740	
Carborundum, etc. ..				196	590	686	
Other abrasives				—	125	80	
Millstones, grindstones, etc.				131	234	62	
Iceland—							
Millstones, etc.	37	16	(a)	(a)	18	19	38
Italy—							
Emery and corundum ..	(a)	(a)	298	1,012	1,110	1,740	910
Carborundum	(a)	(a)	(a)	(a)	(a)	(b) 324	1,194
Artificial abrasives ..	(a)	(a)	891	1,474	2,042	(c) 1,257	(a)
Netherlands—							
Emery	(a)	2,273	2,602	3,686	1,821	4,261	4,141
Other natural abrasives..	(a)	(a)	(a)	614	989	888	998
Millstones and grindstones							
Natural	(a)	—	—	602	328	337	432
Artificial	(a)	—	—	724	769	767	1,091
Other artificial abrasives	(a)	—	—	251	436	589	(a)
Norway—							
Emery, etc.	248	399	385	599	782	662	(a)
Millstones, grindstones, etc.	518	912	1,685	1,254	754	(a)	(a)
Whetstones	9	19	10	15	—	12	(a)
Other artificial abrasives	2	35	22	38	45	58	(a)
Portugal—							
Emery, etc.	182	177	347	168	223	221	339
Pumice	—	46	—	10	40	43	
Millstones	40	114	186	182	89	136	
Spain—							
Emery powder	162	72	53	31	161	186	15
Carborundum	290	49	123	66	96	135	109
Sweden—							
Emery	390	769	403	713	520	730	5,029
Pumice	56	651	97	209	532	178	
Other natural abrasives..	581	2,433	2,556	2,862	2,426	2,556	
Carborundum, etc. ..	73	713	1,081	1,165	1,565	1,784	(a)
Grindstones, etc. ..	329	1,138	1,385	1,329	1,065	1,482	2,021
Millstones	345	619	904	1,267	923	782	(a)
Switzerland—							
Emery, crude	334	989	904	755	690	458	816
Carborundum, emery, etc., ground	430	782	1,201	1,478	777	915	1,339
Millstones	12	10	31	47	70	54	47
Grindstones	66	432	593	450	326	248	285
Whetstones	4	1	36	25	25	16	22

(a) Information not available.

(b) July to December only.

(c) January to June only.

IMPORTS OF ABRASIVES (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Yugoslavia—							
Corundum, etc.	(a)	(a)	(a)	(a)	(a)	668	314
Grindstones, artificial . .	(a)	(a)	(a)	(a)	(a)	291	163
Algeria—							
Emery, corundum, etc. . . .	3	5	50	59	8	67	93
Pumice	3	157	189	138	210	454	68
Millstones and grindstones	236	363	386	424	469	378	387
Egypt—							
Emery, pumice, etc.	17	(b) 844	(b) 266	(b) 1,978	(b) 5,746	5,912	(a)
Millstones	—	—	(b) 67	(b) 104	(b) 64	(a)	(a)
Grindstones	214	135	(b) 150	(b) 235	(b) 174	(a)	(a)
Whetstones	8	6	(b) 13	(b) 44	(b) 11	(a)	(a)
Madagascar—							
Millstones, grindstones, and whetstones	(a)	7	11	27	(a)	(a)	(a)
Morocco (French)—							
Millstones and grindstones	96	284	139	(a)	(a)	(a)	(a)
Tunis—							
Emery and pumice	33	169	55	49	(a)	(a)	(a)
Millstones and grind- stones	9	19	13	50	(a)	(a)	(a)
Cuba (total imports)—							
Grindstones	964	(a)	(a)	615	326	(a)	(a)
Mexico—							
Emery and carborundum	1,254	1,038	1,041	1,418	(a)	(a)	(a)
Pumice	5	6	5	47	(a)	(a)	(a)
Millstones and grind- stones	359	498	505	286	(a)	(a)	(a)
United States—							
Corundum, crude	5,575	3,756	2,144	3,225	1,797	3,163	4,369
Emery, crude	—	2,287	2,772	984	1,350	1,541	2,509
Corundum and emery, ground	33	52	51	56	2	9	9
Pumice, crude	}	4,916	6,973	7,567	7,896	17,203	14,064
do. manufactured . . . . .								878	710	696	675	877	670
Tripoli, etc.	33	83	74	(a)	(a)	(a)	10
Grindstones	223	207	224	274	128	265	190
Buhstones, hones, etc. . .	31	24	42	39	23	20	26
Crude artificial abrasives	149,990	138,578	150,817	155,930	115,604	141,204	208,406
Argentina—							
Emery	872	1,805	689	344	62	231	(a)
Pumice	—	8	(a)	(a)	(a)	(a)	(a)
Grindstones	214	239	(a)	(a)	(a)	(a)	(a)
Oil stones	—	16	(a)	(a)	(a)	(a)	(a)
Brazil—							
Millstones, grindstones, etc.	659	721	708	299	480	(a)	(a)
Other abrasives	246	395	297	157	166	(a)	(a)
Chile—							
Emery	57	25	}	(a)	(a)	(a)	(a)
Pumice	3	—					
Tripoli	4	29					
Other abrasives	98	56					
Colombia—							
Emery and pumice	(a)	82	(a)	(a)	66	51	(a)
Millstones and grind- stones	(a)	20	(a)	(a)	(a)	(a)	(a)
Peru—							
Emery and pumice	30	34	(a)	(a)	(a)	10	(a)
Grindstones	70	52	(a)	(a)	(a)	150	(a)
Venezuela—							
Emery and pumice	19	23	32	35	(a)	(a)	(a)

(a) Information not available.

(b) Total imports.

IMPORTS OF ABRASIVES (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Iraq—							
Grindstones, whetstones, etc.	56	(a)	(a)	(a)	(a)	(a)	(a)
Syria and Lebanon—							
Emery	50	101	(a)	(a)	(a)	(a)	(a)
Millstones and grindstones	150	186	(a)	(a)	(a)	(a)	(a)
Turkey—							
Emery and carborundum, crude	1	9	9	9	9	14	—
Millstones and grindstones	204	170	214	483	345	344	1,025
Whetstones, etc.	—	—	19	6	4	12	42
Grinding powder	10	45	33	45	68	72	17

(a) Information not available.

ALUMINIUM
(Including Bauxite and Cryolite)

PRODUCTION OF BAUXITE

(Long tons)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Northern Ireland	36,397	—	—	—	—	—	—
Gold Coast (b)	146,330	114,246	95,898	130,953	145,013	114,948	129,328
British Guiana (c)	669,164	1,115,966	1,358,929	1,944,966	1,796,409	1,642,036	2,087,079
India	13,893	16,405	18,537	20,663	42,541	64,399	67,047
Australia	3,437	3,729	4,878	5,645	5,292	3,467	5,084
TOTAL	969,000	1,244,000	1,472,000	2,102,000	1,989,000	1,825,000	2,288,500
FOREIGN COUNTRIES							
Austria	8,618	—	—	5,240	6,452	2,960	8,877
France	303,261	442,027	669,381	790,844	753,756	791,300	1,105,400
Germany (Federal)	(a)	(a)	(a)	(a)	2,400	4,100	(a)
Greece	—	1,294	22,066	43,539	44,813	76,225	161,072
Hungary	34,843	99,169	279,100	(e) 340,000	(e) 340,000	(d) 350,000	(d) 400,000
Italy	25,000	64,413	165,070	150,728	103,196	151,010	171,522
Roumania	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Spain	5,020	4,820	5,370	6,698	11,773	12,098	10,346
U.S.S.R. (estimated)	(e) 400,000	450,000	450,000	500,000	500,000	500,000	500,000
Yugoslavia	(a)	54,300	86,200	131,400	362,000	197,719	446,197
French West Africa	—	—	—	—	—	9,965	—
Mozambique	4,305	1,596	2,913	1,340	2,247	4,268	4,187
United States (f)	981,009	1,104,054	1,202,055	1,457,148	1,148,792	1,334,527	1,864,076
Brazil	19,238	4,388	6,629	13,822	15,957	18,277	(a)
Dutch Guiana	753,503	1,004,080	1,711,670	2,165,481	2,095,205	2,013,058	2,672,312
Indonesia	(g)	100,000	24,171	430,907	667,428	522,754	632,172
TOTAL (d)	2,950,000	3,400,000	4,700,000	6,101,000	6,200,000	6,300,000	7,980,000
World's TOTAL (d)	3,920,000	4,650,000	6,170,000	8,110,000	8,190,000	8,130,000	10,270,000

(a) Information not available.

(b) Exports.

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

	1945	1946	1947	1948	1949	1950	1951
Metallurgical ..	690,675	1,047,220	1,210,016	1,764,387	1,598,350	1,432,369	1,829,828
Chemical ..	33,176	37,597	24,572	31,754	38,906	68,385	71,151
Refractory ..	1,333	2,635	2,793	—	17,748	17,362	31,068
Abrasive ..	12,229	33,893	51,632	69,152	101,189	64,513	70,687

Exports of calcined ore are shown in footnote (c) on page 13.

(d) Estimated.

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

(f) Dried bauxite equivalent.

(g) Total production during Japanese occupation amounted to 1,363,000 tons.

PRODUCTION (EXPORTS) OF CRYOLITE IN GREENLAND

Year	Long tons
1945	18,403
1946	30,660
1947	39,910
1948	26,062
1949	44,623
1950	44,046
1951	65,196

PRODUCTION OF ALUMINIUM
(Long tons)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom (b) ..	31,900	31,500	28,940	30,028	30,345	29,468	27,725
Canada	192,600	172,679	267,019	327,749	329,880	354,359	397,090
India	2,254	3,244	3,223	3,368	3,492	3,596	3,848
TOTAL	226,800	207,400	299,182	361,145	363,717	385,525	428,663
FOREIGN COUNTRIES							
Austria	5,131	1,016	4,476	12,814	14,563	17,706	25,965
France	36,637	47,195	52,557	62,695	53,289	59,761	89,665
Germany (c)	(a)	—	—	7,421	28,593	27,398	72,963
Hungary (d)	2,314	1,939	5,121	9,300	14,000	(a)	(f) 30,000
Italy	4,278	10,461	24,668	32,560	25,242	36,485	48,964
Norway	4,535	16,428	21,382	30,551	35,113	46,313	51,283
Spain	531	991	984	515	1,193	2,301	3,779
Sweden	3,185	3,510	2,846	3,227	3,867	3,974	6,643
Switzerland	5,000	13,000	18,167	18,660	20,668	18,900	23,600
U.S.S.R.	(d) 84,947	(f) 80,000	(f) 120,000	(f) 140,000	(f) 160,000	(f) 190,000	(f) 210,000
Yugoslavia	(a)	550	1,300	1,900	2,400	1,901	2,783
United States (e) ..	442,018	365,741	510,491	556,657	538,805	641,627	747,215
Formosa	583	—	15	2,469	1,291	1,793	2,557
Japan	16,192	3,142	2,657	6,855	20,883	24,377	36,329
Korea	1,223	(a)	(a)	(a)	(a)	(a)	(a)
Manchuria	3,200	(a)	(a)	(a)	(a)	(a)	(a)
TOTAL	640,000	550,000	770,000	880,000	920,000	1,080,000	1,350,000
WORLD'S TOTAL	860,000	760,000	1,070,000	1,240,000	1,284,000	1,466,000	1,779,000

(a) Information not available.

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

1945	81,000 long tons
1946	74,900 " "
1947	97,600 " "
1948	80,165 " "
1949	75,228 " "
1950	86,372 " "
1951	87,029 " "

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

1946	17,500 long tons
1947	18,531 " "
1948	34,318 " "
1949	35,656 " "
1950	48,721 " "
1951	47,966 " "

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

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

1945	266,417 long tons
1946	248,279 " "
1947	307,890 " "
1948	256,051 " "
1949	161,395 " "
1950	217,559 " "
1951	261,257 " "

(f) Estimated.

EXPORTS OF ALUMINIUM, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Alumina	901	8,926	6,473	3,841	4,087	13,479	17,924
Ingots, etc., including alloyed.. .. .	3,292	5,231	6,016	6,543	5,689	5,429	2,053
Sheets, tubes and wire do. alloyed.. .. .	3,030	17,465	22,242	47,067	31,817	22,170	16,807
Foil and alloyed.. .. .	104	1,787	2,311	3,046	21,334	17,749	20,751
Scrap, including alloyed	258	8,286	507	10	2,941	3,605	3,848
Aluminium sulphates ..	20,415	34,298	29,648	38,695	37,568	38,350	33,025
Gold Coast—							
Bauxite	146,330	114,246	95,898	130,953	145,013	114,948	129,328
Southern Rhodesia—							
Ingots, blocks and rods..	40	67	52	9	45	49	25
Union of South Africa—							
Aluminium sulphates ..	—	509	1,044	705	574	(a)	(a)
Canada—							
Blocks, bars, and ingots..	341,327	167,264	190,818	292,060	265,095	299,755	316,441
Sheets, rods, etc. ..	1,688	2,186	3,481	5,507	9,443	10,219	13,218
Scrap	5,819	5,766	9,644	20,393	3,914	4,146	3,528
Wire	(£235,909)	(£287,598)	(£627,773)	(£1,370,092)	(a)	(a)	(a)
Foil	(a)	(a)	(a)	(a)	795	636	1,440
Jamaica—							
Bauxite	(50 lbs.)	—	—	—	2	—	—
British Guiana—							
Bauxite (c)	738,544	1,120,015	1,290,367	1,873,166	1,757,650	1,583,417	2,002,744
India—							
Bauxite	470	1,040	281	448	948	344	808
Malaya (including re-exports)—							
Bauxite	(a)	—	—	—	—	15,891	20,660
Bars, sheets and strips ..	(a)	4	57	253	266	187	413
Aluminium sulphates ..	(a)	911	1,334	1,706	1,386	2,164	3,137
Australia—							
Bauxite	(a)	36	151	134	176	102	—
Pigs, ingots, etc. ..	—	242	157	194	6	—	—
Scrap	—	—	1,536	4,360	3	102	—
Aluminium sulphates ..	234	385	281	134	74	106	53
FOREIGN COUNTRIES							
Austria—							
Bauxite	(a)	(a)	(a)	(a)	(a)	—	2,963
Alumina			1,362	903	149	253	391
Crude, including alloys..			3,097	14,839	9,389	13,400	6,968
Scrap			—	1,159	1,212	648	853
Sheets, rods, wire, foil, etc.			35	—	7	49	3,152
Belgium-Luxemburg E.U.—							
Bauxite, etc.	(a)	(a)	(a)	—	—	—	—
Alumina and hydrates ..	(a)	(a)	(a)	4	59	—	—
Crude	(a)	(a)	(a)	1,900	3,640	3,287	356
Scrap	(a)	(a)	(a)	666	370	733	166
Sheets, wire, etc. ..	(a)	(a)	(a)	630	516	1,475	4,338
Aluminium sulphates ..	(a)	(a)	(a)	6,593	7,473	7,262	25,042
Czechoslovakia—							
Crude and scrap ..	(a)	—	137	(b) 1,255	(a)	(a)	(a)
Bars, sheets, rods and wire	(a)	6	70	(b) 2	(a)	(a)	(a)
Denmark—							
Refined cryolite	96	8,490	12,503	18,639	18,697	23,965	28,064
Crude	15	52	71	41	272	235	22
Scrap	—	317	686	309	306	49	10
Sheets, wire and foil ..	—	3	1	1	37	232	383

(a) Information not available.

(b) January to October only.

(c) Including the following amounts of calcined ore:—
1945-12,229; 1946-33,203; 1947-51,672; 1948-
69,152; 1949-75,261; 1950-81,275; 1951-97,053.

EXPORTS OF ALUMINIUM, ETC. (Cont.)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
France—							
Bauxite	1,038	47,741	83,109	114,645	187,751	257,726	359,976
Alumina	9,551	30,765	67,267	71,821	56,407	67,320	70,034
Aluminium hydrates	1,077	3,217	6,987	3,271	5,950	5,405	8,336
Cryolite	—	(b) 34	(b) 44	1	10	—	1
Ingots	} 492	1,719	} 1,277	1,204	8,693	16,549	8,788
Scrap				(a)	(a)	(a)	(a)
Sheets, wire, etc.	170	1,927	3,527	2,396	3,144	3,018	3,650
Aluminium sulphates	1,295	2,727	3,089	4,521	4,754	7,476	11,859
Germany—							
Bauxite and cryolite	} (a)	(a)	(a)	3,938	—	1,059	20
Alumina				(a)	(a)	(a)	11,586
Crude and alloys				—	15,743	33,797	} 6,025
Scrap				—	2,097	712	
Sheets, wire, castings, etc.				—	554	8,840	10,064
Foil				—	185	2,024	4,887
Aluminium sulphates, etc. including refined bauxite				—	—	133	4,315	29,335	(c) 16,258
Greece—							
Bauxite	—	—	5,905	39,762	39,772	64,117	177,312
Hungary—							
Bauxite	704	8,914	52,551	(a)	(a)	(a)	(a)
Italy—							
Bauxite	—	492	—	—	—	—	1
Alumina	—	5,315	10,637	21,671	13,591	10,999	35,923
Aluminium hydrates	(a)	(a)	125	—	2	35	2
Crude, scrap and alloyed	—	679	1,625	18,810	5,005	3,090	6,959
Aluminium sulphates	(a)	(a)	796	209	583	624	4,585
Netherlands—							
Crude and alloys	(a)	5	126	149	587	169	218
Scrap	(a)	190	1,093	3,497	1,371	2,836	1,186
Foil	(a)	3	10	23	28	42	21
Norway—							
Alumina	8	37	157	41	354	6	(a)
Crude	2,796	9,469	16,337	21,541	21,585	39,714	41,220
Scrap	282	746	599	521	292	562	405
Bars, sheets, tubes and wire	81	556	891	1,193	995	1,390	2,213
Sweden—							
Alumina	(a)	(a)	(a)	(a)	893	98	—
Crude, sheets and strips	68	23	27	47	7	852	534
Scrap	84	98	158	84	100	292	230
Aluminium sulphates	6,359	11,473	8,140	6,915	7,976	11,254	9,037
Switzerland—							
Blocks, ingots, etc., and scrap	25	396	964	10,617	6,360	9,412	2,208
do. (alloys)	103	395	155	1,282	1,108	2,436	1,316
Bars, sheets, tubes and wire	157	3,038	4,632	3,684	3,053	1,547	4,002
do. (alloys)	37	610	1,381	1,094	1,313	1,561	1,859
Yugoslavia—							
Bauxite	(a)	(a)	(a)	(a)	(a)	150,576	441,421
Algeria—							
Ingots	4	—	—	401	337	11	72
Scrap	—	—	—	584	240	249	619
Mozambique—							
Bauxite	9,666	1,032	2,412	748	846	3,705	3,021
Greenland—							
Cryolite	18,403	30,660	39,910	26,062	44,623	44,046	(d) 65,196

(a) Information not available.

(b) Artificial only.

(c) January to September only.

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

EXPORTS OF ALUMINIUM, ETC. (Cont.)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Haiti—							
Bauxite	—	300	—	(a)	(a)	(a)	(a)
United States—							
Bauxite, etc.	126,067	97,788	94,369	54,113	34,902	45,209	85,565
Cryolite, natural	1,299	1,159	836	637	} 323	1,850	1,426
do. artificial	398	414	295	72			
Ingots and alloys	2,026	988	10,802	1,107	7,159	591	857
Scrap	716	572	703	390	354	713	5,607
Plates, sheets, bars, etc. . .	3,242	13,917	44,852	62,674	25,682	17,698	9,816
Foil	1,167	1,602	4,339	1,765	1,305	743	142
Aluminium sulphates	33,904	33,890	20,883	12,805	13,131	11,615	17,737
Brazil—							
Bauxite	6,949	1,143	702	11,808	9,891	11,850	8,709
Dutch Guiana—							
Bauxite	679,149	839,146	1,769,433	2,131,305	2,095,205	2,013,058	2,629,140
China—							
Aluminium sulphates	(a)	1,544	1,123	605	(a)	(a)	(a)
Indonesia—							
Bauxite	(a)	—	88,166	443,105	670,339	540,853	601,746

(a) Information not available.

IMPORTS OF ALUMINIUM, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Bauxite	162,561	156,972	163,726	308,328	326,603	198,607	345,447
Cryolite	844	1,444	1,587	2,280	2,590	3,403	3,630
Alumina	(b) 1	101	5	—	—	27	146
Ingots, etc. .. .	} 21,148	80,646	95,862	139,084	165,397	} 141,205	175,626
do. alloyed .. .								4
Bars, sheets, tubes, etc., including alloyed ..	(b) 5,310	(b) 611	95	138	30	150	1,513
Foil and alloyed .. .	1,745	28	422	222	146	185	921
Scrap, including alloyed	3	23	1,943	3,516	1,810	836	990
Kenya (e)—							
Sheets and wire .. .	10	115	655	2,754	1,669	672	1,239
Southern Rhodesia—							
Ingots, bars, and sheets	35	95	836	1,505	372	198	233
Foil	1	17	56	21	13	28	31
South West Africa—							
Ingots, bars, sheets, etc.	—	13	185	132	138	30	(a)
Tanganyika—							
Sheets, strips, wire etc. ..	2	3	542	691	962	634	553
Uganda—							
Sheets and wire	(g)	(g)	(g)	(g)	574	433	1,222
Union of South Africa—							
Ingots, blocks, and pigs	74	259	473	434	387	1,184	1,940
Sheet, wire, foil, etc. .. .	54	994	5,270	5,629	1,883	806	(a)
Aluminium sulphates .. .	68	650	508	799	457	52	(a)
Canada (d)—							
Bauxite	839,029	1,145,693	1,243,476	1,793,298	1,600,572	1,662,167	2,144,428
Cryolite	3,556	2,532	6,481	5,974	1,364	3,334	5,818
Alumina	285	162	165	132	182	214	245
Ingots, rods, sheets, etc.	1,030	4,149	4,264	2,880	3,189	1,965	4,859
Scrap	286	521	113	185	51	379	40
Leaf and foil	(£15,604)	(£23,080)	(£126,725)	(£41,056)	(£36,311)	(£43,122)	(£61,509)
Aluminium sulphates .. .	31,607	24,752	4,667	2,347	3,744	3,518	7,989
Newfoundland (c)—							
Sheets, plates, foil, etc. ..	4	8	28	36	(c)	(c)	(c)
Aluminium sulphates .. .	982	1,098	227	1,589	(c)	(c)	(c)
Trinidad and Tobago—							
Aluminium sulphates .. .	(a)	(a)	(a)	95	1,128	460	833
Aden—							
Aluminium sulphates .. .	4	9	11	2	—	—	—
India—							
Ingots, blocks, bars, etc.	3,014	7,345	3,368	830	—	1,836	3,189
Sheets and circles .. .	1,799	2,685	6,692	6,023	7,873	3,691	3,349
Aluminium sulphates .. .	1,710	857	2,743	810	573	1,433	1,522
Malaya (total imports)—							
Bars, sheets and strips .. .	(a)	245	1,286	2,363	2,547	3,195	6,475
Aluminium sulphates .. .	(a)	2,062	1,734	2,228	1,628	3,451	5,383
Ceylon—							
Foil	—	336	472	421	433	593	475
Palestine—							
Ingots and sheets .. .	13	312	(a)	(a)	(f)	(f)	(f)
Foil	4	84	(a)	(a)	(f)	(f)	(f)

(a) Information not available.

(b) Excess of re-exports.

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

(d) Including Newfoundland from April 1, 1949.

(e) Including Uganda up to 1948 inclusive.

(f) See "Israel" under Foreign Countries.

(g) Included with Kenya.

IMPORTS OF ALUMINIUM, ETC. (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES (Cont.)							
Australia—							
Bauxite	(a)	—	—	10	—	6	113
Cryolite	29	26	74	23	17	(c) 34	62
Pigs, ingots and blocks	7	1,811	4,219	4,726	7,185	5,916	11,389
Scrap					3	—	140
Sheets, wire, rods, etc. . .	96	156	308	1,438	3,847	3,230	3,815
Pipes and tubes (£ Aust.)	(£63,970)	(£201,389)	(£235,878)	(£18,314)	69	422	423
Foil (c)	80	214	298	440	450	653	(a)
Aluminium sulphates ..	—	28	(d) 21	93	36	464	452
New Zealand—							
Bars, sheets, tubes, wire, etc.	50	135	523	2,277	2,891	3,505	2,513
Irish Republic—							
Ingots and sheets	277	699	1,374	672	1,101	933	624
Foil	7	33	38		123	186	207
Aluminium sulphates ..	932	1,744	1,766	1,500	1,614	2,175	3,137
FOREIGN COUNTRIES							
Austria—							
Bauxite	(a)	(a)	(a)	(a)	2,933	4,972	7,719
Cryolite			21	475	1,434	2,005	1,800
Alumina			13,385	23,309	71,855	77,934	86,767
Aluminium hydrates ..			13,917	28,610	33	1,067	1,585
Crude, scrap and alloys . .			27	50	66	13	45
Sheets, rods, wire, etc. . .			134	518	889	1,178	1,272
Foil			7	—	—	—	—
Aluminium sulphates ..			2,295	2,662	4,636	2,339	133
Belgium-Luxemburg E.U.—							
Bauxite	(a)	(a)	(a)	1,922	574	890	2,192
Alumina	(a)	(a)	(a)	4,519	522	321	1,245
Aluminium hydrates ..	(a)	(a)	(a)		4,220	3,792	12,702
Crude	(a)	(a)	(a)	5,392	7,448	8,545	14,148
Scrap	(a)	(a)	(a)	1,215	847	2,028	852
Sheets, etc.	(a)	(a)	(a)	1,350	1,463	1,646	1,753
Aluminium sulphates ..	(a)	(a)	(a)	240	755	1,174	1,158
Bulgaria—							
Crude, bars and sheets . .	220	222	(a)	(a)	(a)	(a)	(a)
Aluminium sulphates ..	158	372	(a)	(a)	(a)	(a)	(a)
Czecho-slovakia—							
Bauxite	(a)	1,353	2,353	(b) 5,586	(a)	(a)	(a)
Cryolite	(a)	256	449	(b) 138	(a)	(a)	(a)
Alumina	(a)	—	1,835	(b) 1,403	(a)	(a)	(a)
Crude and scrap	(a)	973	7,446	(b) 10,876	(a)	(a)	(a)
Aluminium sulphates ..	(a)	107	325	(b) 165	(a)	(a)	(a)
Denmark—							
Crude cryolite	3,113	20,827	21,211	24,013	27,153	25,484	30,665
Crude	1,246	2,235	3,061	2,527	2,975	3,063	3,138
Scrap	251	65	107	208	27	155	62
Bars, sheets, plates and wire	205	1,654	2,108	1,383	1,412	1,914	3,042
Leaf	34	307	300	256	145	305	405
Aluminium sulphates ..	1,036	1,760	2,447	2,992	2,596	3,304	3,494
Finland (total imports)—							
Alumina	1	47	12	28	24	25	17
Crude	12	440	478	508	522	630	1,579
Bars and sheets	103	352	681	1,700	1,446	1,358	2,110
Aluminium sulphates ..	3,310	6,906	9,362	6,662	7,195	8,154	16,003

(a) Information not available.

(b) January to October.

(c) Years ended June 30 of that stated.

(d) Excess of re-exports.

IMPORTS OF ALUMINIUM, ETC. (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
France—							
Bauxite	16	11	611	—	94	69	89
Cryolite	—	2,376	59	3 008	787	1,243	1,679
Alumina	428	893	5	213	—	50	96
Aluminium hydrates	246	360	—	—	63	1	77
Cryolite, artificial	—	354	—	(a)	(a)	(a)	(a)
Ingots	1,077	11,078	25 831	25,389	5,268	786	2,372
Scrap							
Sheets, wire, etc.	300	1,776	931	176	149	333	1,023
Aluminium sulphates	3	1	—	10	10	1	12
Germany (Federal)—							
Bauxite and cryolite	(a)	(a)	(a)	87,812	96,375	210,779	610,212
Crude and alloys							
Scrap							
Sheets, wire, castings, etc.							
Aluminium sulphates, etc. including refined bauxite							
Alumina	—	1,476	504	—	96	21	27
Crude, scrap and alloys	—	20	6,269	8,880	7,241	19,487	6,497
Aluminium sulphates	(a)	(a)	23	—	39	490	59
Netherlands—							
Bauxite	(a)	98	577	295	297	298	266
Crude and alloys							
Foil							
Aluminium sulphates							
Bauxite	—	6,991	28,310	39,238	24,087	36,570	19,833
Cryolite	12	644	1,891	2,605	2,578	3,177	2,928
Alumina	—	17,217	35,159	45,184	64,216	79,732	74,462
Crude	—	—	492	238	472	998	1,667
Bars, sheets, etc.	1	145	1,324	611	692	434	1,235
Aluminium sulphates	2,502	5,273	7,821	5,981	6,942	7,707	8,367
Poland—							
Bauxite	757	8,027	14,021	(a)	(a)	(a)	(a)
Crude, scrap, sheets and wire	—	2,266	4,082	(a)	(a)	(a)	(a)
Portugal—							
Cryolite	73	34	26	33	19	28	(a)
Powder	36	37	54	74	96	74	(a)
Ingots, sheets and wire	295	964	1,495	807	1,204	1,620	1,256
Aluminium sulphates	700	1,098	991	673	501	835	993
Spain—							
Alumina	1,133	2,182	2,063	2,370	1,931	4,854	8,693
Ingots and scrap	1,922	2,028	2,802	2,106	2,786	1,634	1,449
Sheets, tubes and wire	610	28	43	14	26	18	257
Sweden—							
Bauxite	—	16,634	27,642	19,785	17,357	9,299	7,240
Cryolite (incl. artificial)	64	688	496	313	713	901	(a)

(a) Information not available.

(b) July to December only.

IMPORTS OF ALUMINIUM, ETC. (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
<i>Sweden—(Cont.)</i>							
Alumina	3,010	1,782	2,797	6,925	7,506	12,454	21,014
Crude	2,274	7,916	9,612	13,350	13,149	8,227	11,504
Scrap	382	2,381	1,502	1,315	720	428	(a)
Sheets, tubes and wire ..	104	2,561	3,923	4,768	3,067	1,582	(a)
Aluminium sulphates ..	7	227	852	167	637	113	(a)
<i>Switzerland—</i>							
Alumina, etc.	14,286	25,948	44,750	45,327	46,844	40,118	54,679
Blocks, ingots, etc., and scrap	7,486	7,866	7,048	6,921	8,918	2,702	5,039
do. (alloyed)	64	13	173	235	39	87	159
Bars, sheets, tubes and wire	21	432	1,124	276	6	116	344
do. (alloyed)	223	55	122	164	9	45	61
Aluminium sulphates ..	220	351	322	243	134	401	273
<i>Yugoslavia—</i>							
Crude	(a)	(a)	(a)	(a)	(a)	64	—
Sheets, tubes, wire, etc.	(a)	(a)	(a)	(a)	(a)	1,071	598
<i>Algeria—</i>							
Bauxite	—	28	1,598	424	199	22	521
Ingots, sheets, wire, etc.	583	533	758	170	284	824	856
Aluminium sulphates ..	185	212	223	401	148	368	330
<i>Egypt—</i>							
Bars, sheets, tubes and wire	43	239	117	340	411	694	(a)
Foil	—	130	104	334	264	(a)	(a)
Aluminium sulphates ..	4,565	7,865	3,567	8,142	5,609	(a)	(a)
<i>Madagascar—</i>							
Aluminium sulphates ..	(a)	44	36	27	(a)	(a)	(a)
<i>Mozambique—</i>							
Bars, sheets, wire ..	3	13	103	210	222	155	52
<i>Tunis—</i>							
Ingots and scrap	101	147	393	9	(a)	(a)	(a)
Aluminium sulphates ..	168	100	105	60	(a)	(a)	(a)
<i>Costa Rica—</i>							
Bars, sheets, foil, etc. ..	—	305	740	207	89	(a)	(a)
<i>Cuba (total imports)—</i>							
Ingots and bars	(a)	(a)	(a)	420	238	(a)	(a)
Aluminium sulphates ..	2,559	(a)	(a)	1,509	1,522	1,600	1,100
<i>Guatemala—</i>							
Aluminium sulphates ..	(a)	(a)	(a)	(a)	(a)	1,472	856
<i>Mexico—</i>							
Alumina	470	489	607	635	(a)	(a)	(a)
Ingots	354	198	1,841	1,031	(a)	(a)	3,308
Bars, sheets and wire ..	413	1,585	3,859	3,178	(a)	(a)	1,410
Foil	434	1,286	670	133	(a)	(a)	(a)
Aluminium sulphates ..	867	924	(a)	(a)	(a)	(a)	(a)
<i>United States—</i>							
Bauxite, crude	739,581	852,005	1,821,580	2,488,915	2,688,164	2,476,686	2,829,929
Refined bauxite	180	5	(a)	6	157	194	18,642
Cryolite	17,952	10,200	19,650	2,101	18,309	15,298	34,688
Crude and alloys	296,819	37,042	13,910	74,254	69,056	157,838	109,289
Scrap	4,615	12,983	14,034	64,055	35,822	60,678	17,865
Sheets, bars, etc.	1,500	971	28	5,344	7,021	9,781	17,324
Foil (b)	90	51	36	16	176	265	724
Aluminium sulphates ..	—	—	72	4,962	1,313	2,763	4,627

(a) Information not available.

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

IMPORTS OF ALUMINIUM, ETC. (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Argentina—							
Bauxite	1,680	2,065	(a)	(a)	(a)	(a)	(a)
Ingots, sheets and wire ..	1,384	2,591	7,079	12,430	7,064	12,717	5,541
Aluminium sulphates ..	1,581	3,910	(a)	(a)	(a)	(a)	(a)
Brazil (total imports)—							
Cryolite	111	132	77	148	107	(a)	(a)
Bars, sheets and wire ..	2,965	2,968	5,664	6,667	9,001	9,655	(a)
Scrap	544	1,053	527	677	328	(a)	(a)
Aluminium sulphates ..	1,524	3,127	3,488	1,514	1,968	(a)	(a)
Chile—							
Bars and sheets	160	458	110	185	(a)	(a)	(a)
Aluminium sulphates ..	849	358	(a)	(a)	(a)	(a)	(a)
Colombia—							
Ingots, bars, sheets, etc.	(a)	1,119	(a)	(a)	(a)	(a)	(a)
Aluminium sulphates ..	(a)	2,074	(a)	(a)	2,775	4,647	(a)
Peru—							
Ingots	26	30	(a)	(a)	(a)	(a)	(a)
Aluminium sulphates ..	463	1,142	(a)	82	(a)	(a)	(a)
Uruguay—							
Bauxite	589	—	295	—	1,998	—	(a)
Ingots, sheets, etc. ..	—	360	1,038	810	320	1,669	(a)
Aluminium sulphates ..	1,929	2,959	2,617	3,517	2,418	2,997	(a)
Venezuela—							
Crude	47	224	143	42	(a)	(a)	(a)
Aluminium sulphates ..	227	528	676	1,235	(a)	(a)	(a)
China—							
Sheets and wire ..	(a)	3,559	4,484	2,153	(a)	(a)	(a)
Foil, including interleaved with paper			673	1,190	1,565	(a)	(a)	(a)
Iran (b)—							
Ingots, sheets, scrap, etc.	(a)	311	214	(a)	(a)	(a)	(a)
Aluminium sulphates ..	(a)	103	68	(a)	(a)	(a)	(a)
Iraq—							
Bars, sheets, wire, etc. ..	—	(a)	(a)	(a)	(a)	(a)	(a)
Aluminium sulphates ..	76	(a)	(a)	(a)	(a)	(a)	(a)
Israel—							
Ingots and sheets ..	(d)	(d)	(d)	(d)	2,777	6,832	(a)
Foil	(d)	(d)	(d)	(d)	69	81	(a)
Japan (c)—							
Bauxite	1,775	2,830	—	94,200	(a)	128,018	329,095
Ingots, blocks, etc. ..	(a)	(a)	(a)	(a)	(a)	1,321	—
Syria and Lebanon—							
Aluminium sulphates ..	97	234	—	7	156	(a)	(a)
Turkey—							
Bars, sheets, wire and alloys	73	133	454	243	173	275	1,490
Aluminium sulphates ..	1,525	764	1,562	1,188	1,215	1,052	1,981

(a) Information not available.

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

(c) Including Formosa for the year 1945.

(d) See "Palestine" under British Countries.

ANTIMONY

PRODUCTION OF ANTIMONY ORE

(In terms of metal)

(Long tons)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Southern Rhodesia ..	34	17	87	10	42	25	78
Union of South Africa ..	2,408	2,485	3,250	4,040	4,290	8,179	15,607
Canada (b)	—	—	—	—	—	—	—
Pakistan	290	200	—	—	—	—	—
Sarawak	—	—	—	3	1	2	—
Australia (d)	184	530	170	187	195	226	409
New Zealand	—	—	—	(e) 5	(c) 2	—	—
FOREIGN COUNTRIES							
Austria	272	35	99	265	371	402	490
Czechoslovakia (f) ..	1,097	2,122	1,411	1,568	(a) 90	(a) 401	(a) 680
France	163	217	198	271	333	401	601
Greece	—	—	—	—	(e) 90	(e) 600	(e) 680
Italy	370	440	500	550	617	742	781
Portugal	3	3	25	40	21	15	19
Spain	225	275	143	235	270	250	351
Algeria	453	—	118	840	1,376	1,230	1,440
Morocco (French) ..	378	250	413	443	611	695	942
do. (Spanish)	48	111	156	118	153	284	201
Honduras	—	—	—	10	(a) 70	(a) 38	(a) 193
Mexico	8,614	6,468	6,816	7,264	5,662	5,776	6,717
United States (g) ..	1,723	2,237	4,746	5,794	1,461	2,229	3,136
Bolivia (exports) ..	5,448	6,854	10,686	12,066	10,113	8,630	11,629
Peru	2,265	1,194	1,272	1,610	728	955	(a) 1,440
Burma (e)	(c) 830	—	40	(a) 70	70	38	(a) 193
China	—	956	(a) 94	(a) 133	(a) 184	(a) 158	(a) 218
Japan	419	61	94	133	184	158	218
Siam	44	—	112	105	229	85	64
Turkey	40	80	130	650	570	1,585	2,664
TOTAL*	25,300	24,500	32,500	39,400	32,700	37,300	49,700

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

(a) Information not available.

(b) The following figures represent the antimony content of antimonial lead (long tons): 1945—745; 1946—287; 1947—513; 1948—138; 1949—71; 1950—287; 1951—536.

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

(d) In addition the antimony content of antimonial slag obtained as a by-product of lead refining, was as follows: (long tons): 1945—191; 1946—394; 1947—309; 1948—338; 1949—265; 1950—288; 1951—333.

(e) Estimated.

(f) United States Bureau of Mines.

(g) Secondary metal was recovered as follows (long tons): 1945—15,311; 1946—17,067; 1947—20,522; 1948—19,279; 1949—16,126; 1950—19,520; 1951—21,378.

EXPORTS OF ANTIMONY, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Regulus and refined ..	774	489	357	660	807	1,595	1,220
Southern Rhodesia—							
Ore	52	26	105	5	76	87	164
Union of South Africa—							
Ore	4,255	4,156	3,629	6,475	6,975	12,099	21,388
Hong Kong (re-exports)—							
Crude and regulus ..	(a)	1,159	4,988	1,435	1,491	1,816	7
Sarawak—							
Ore	(a)	—	—	2	2	5	(a)
Australia—							
Ore and concentrates (b)	15	723	113	464	59	(e) 208	(a)
FOREIGN COUNTRIES							
Austria—							
Ore	(a)	(a)	148	365	496	558	307
Belgium-Luxemburg E.U.—							
Regulus	(a)	(a)	(a)	1,714	1,419	2,394	2,321
Czechoslovakia—							
Regulus	(a)	738	269	(c) 989	(a)	(a)	(a)
Denmark—							
Regulus	—	—	49	13	10	10	—
France—							
Crude and regulus ..	8	17	14	(a)	(a)	(a)	(a)
Oxide	—	(d) 4	(d) 3	(d) 3	18	53	214
Germany (Federal)—							
Ore, including arsenical							
ores				15	20	232	(a)
Regulus and scrap ..	(a)	(a)	(a)	—	—	10	—
Oxide, etc.				—	14	193	333
Italy—							
Regulus	—	46	13	152	99	—	173
Netherlands—							
Regulus and scrap ..	(a)	—	8	24	6	6	3
Portugal—							
Ore	136	2	18	69	59	21	24
Spain—							
Regulus	15	20	5	—	—	46	59
Sweden—							
Crude	3	13	44	16	28	29	33
Regulus	—	5	11	3	2	6	—
Yugoslavia—							
Regulus	(a)	(a)	(a)	(a)	(a)	1,630	1,097
Waste	(a)	(a)	(a)	(a)	(a)	—	1,798

(a) Information not available.

(b) Years ended June 30 of that stated.

(c) January to October only.

(d) Including sulphide and other compounds.

(e) Sb content of all ores and concentrates.

EXPORTS OF ANTIMONY, ETC. (Cont.)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Algeria—							
Ore	443	147	—	1,445	3,116	2,965	3,030
Morocco (French)—							
Ore	841	606	1,150	(a)	981	1,102	1,831
Morocco (Spanish)—							
Ore	100	231	—	(a)	(a)	(a)	(a)
Honduras—							
Ore (<i>Sb content</i>) ..	(a)	(a)	(a)	10	(a)	(a)	(a)
Mexico—							
Ore	21,423	16,936	19,763	26,865	9,308	9,371	13,985
Concentrates	543	137	151	245	47	—	96
Regulus	31	73	107	79	739	1,274	1,067
<i>Sb content</i> (b) ..	7,878	5,906	5,965	6,462	4,041	3,439	4,733
United States—							
Ore	222	2	691	61	31	6	5
Metal and alloys ..	74	410	249	230	402	132	145
Oxide and sulphide ..	107	—	(a)	(a)	(c) 199	(c) 164	(c) 311
Bolivia—							
Ore (<i>Sb content</i>) ..	5,448	6,854	10,686	12,066	10,113	8,630	11,629
Peru—							
Ore and metal (<i>Sb content</i>)	2,231	1,079	1,029	1,336	676	992	(a)
China—							
Crude	—	—	49	376	(a)	(a)	(a)
Regulus	—	4,658	8,390	4,249	(a)	(a)	(a)
Oxide	—	—	3	(a)	(a)	(a)	(a)
Japan—							
Regulus (<i>Sb content</i>) ..	—	(a)	236	(a)	(a)	2	(a)
Turkey—							
Ore	—	120	295	1,497	268	1,434	1,589
Regulus	(a)	(a)	(a)	(a)	171	95	248

(a) Information not available.

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

(c) Total compounds.

IMPORTS OF ANTIMONY, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Ore and concentrates (d)	9,470	10,470	12,200	14,791	11,694	14,172	25,744
Refined and regulus ..	—	477	105	(b) 1	5	(a)	(a)
Southern Rhodesia—							
Refined and regulus ..	4	1	16	5	6	14	11
Union of South Africa—							
Refined and regulus ..	196	55	108	116	101	276	(a)
Canada—							
Regulus	462	831	1,286	488	1,153	1,434	608
Oxide	(a)	(a)	(a)	(a)	(a)	(a)	45
Hong Kong (total imports)—							
Ore	(a)	—	19	2,142	1,954	168	—
Crude and regulus ..			4,470				
Australia—							
Concentrates	40	411	1,127	1,062	551	709	1,054
Crude and regulus ..	—	—	3	1	11	339	61
Sulphide	—	—	1	—	—	—	—
New Zealand—							
Antimony	—	—	66	163	86	109	135
FOREIGN COUNTRIES							
Austria—							
Regulus	(a)	(a)	81	70	204	129	44
Belgium-Luxemburg E.U.—							
Regulus	(a)	(a)	(a)	35	16	27	80
Denmark—							
Regulus	39	192	254	231	132	406	174
France—							
Ore	1,267	1,411	2,354	(a)	(a)	(a)	(a)
Crude and regulus ..	418	716	2,095	(a)	(a)	(a)	(a)
Oxide and sulphide ..	—	16	20	—	(c)	(c)	(c)
Germany (Federal)—							
Ore and matte	(a)	(a)	(a)	654	490	1,197	(e) 1,048
Regulus and scrap ..				949	679	458	1,236
Oxide, etc.				16	19	236	184
Italy—							
Ore	(a)	(a)	(a)	(a)	(a)	45	89
Regulus	—	96	75	38	51	246	24
Oxide	—	10	36	12	51	339	57
Netherlands—							
Regulus and scrap ..	(a)	370	663	332	(f) 533	(f) 448	313
Oxide	(a)	(a)	(a)	(a)	(a)	494	500
Norway—							
Regulus	23	115	50	136	22	139	(a)
Portugal—							
Crude and alloys ..	9	17	31	25	8	23	16
Oxide	31	6	28	29	15	12	6
Sulphide	10	14	2	1	—	4	(a)
Spain—							
Sulphide	3	15	2	7	2	6	1
Sweden—							
Crude	14	119	75	63	50	95	(a)
Regulus	20	321	300	366	184	327	(a)

(a) Information not available

(b) Excess of re-exports.

(c) Oxide only.

(d) Including crude.

(e) January to September only.

(f) Scrap only.

IMPORTS OF ANTIMONY, ETC. (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Switzerland—							
Regulus	46	290	368	249	169	263	290
Algeria—							
Regulus	12	36	13	74	6	3	6
Tunis—							
Regulus and sulphide ..	9	8	4	13	(a)	(a)	(a)
Mexico—							
Oxide and sulphide ..	46	50	28	3	(a)	(a)	(a)
United States—							
Ore (<i>Sb content</i>) ..	20,217	5,271	8,288	12,083	6,673	8,717	10,629
Regulus, crude, etc. ..	560	2,315	5,264	3,312	1,727	4,153	1,992
Oxide	—	—	—	—	50	1,035	1,821
Argentina—							
Ore	527	761	(a)	(a)	(a)	(a)	(a)
Regulus and crude ..	—	3	(a)	(a)	(a)	(a)	(a)
Brazil—							
Regulus	65	223	386	43	124	(a)	(a)
Oxide	13	56	62	51	112	(a)	(a)
Sulphide	42	209	98	76	68	(a)	(a)
Chile—							
Regulus	41	115	35	53	(a)	(a)	(a)
Oxide and sulphide ..	13	1	(a)	(a)	(a)	(a)	(a)
Peru—							
Regulus and sulphides ..	9	7	(a)	(a)	(a)	(a)	(a)
Uruguay—							
Regulus	(a)	(a)	(a)	1	12	10	(a)
Oxide	(a)	(a)	(a)	21	4	10	(a)
Japan—							
Ore and metal (<i>Sb content</i>)	—	(a)	(a)	(a)	(a)	91	(a)
Turkey—							
Regulus	3	11	4	10	4	—	—

(a) Information not available.

ARSENIC
PRODUCTION OF ARSENIC
(Long tons)

Producing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Great Britain—							
White arsenic and arsenic soot	115	145	90	(a)	(a)	(a)	(a)
Southern Rhodesia—							
White arsenic	436	212	409	279	146	112	75
Union of South Africa—							
White arsenic	45	8	2	9	—	—	—
Canada—							
White arsenic	913	333	352	519	235	355	1,073
India—							
Orpiment	8	—	—	—	—	—	—
Pakistan—							
Orpiment	(b)	36	—	—	—	—	—
Australia—							
White arsenic	1,989	1,624	1,191	512	(c) 253	(c) 200	(c) 120
New Zealand—							
White arsenic	17	18	8	8	19	10	—
FOREIGN COUNTRIES							
Belgium (exports)—							
White arsenic	(a)	(a)	(a)	149	519	1,879	320
Finland—							
Concentrates (<i>As content</i>)	—	—	—	—	30	67	162
France—							
White arsenic	1,856	4,079	3,261	2,931	2,552	(a)	(a)
Germany (exports)—							
White arsenic, etc. .. .	(a)	(a)	(a)	36	1,064	1,106	3,449
Greece—							
White arsenic	—	8	14	19	20	32	(a)
Italy—							
Mispickel (<i>As content</i>) ..	90	840	1,654	(d) 710	(d) 915	(d) 990	(a)
White arsenic	100	1,400	1,600	1,700	1,420	715	(a)
Portugal—							
White arsenic (<i>f</i>)	239	500	989	1,590	960	598	735
Spain—							
White arsenic	(a)	(a)	477	564	122	472	421
Sweden—							
Ore (<i>As content</i>) (<i>e</i>) .. .	3,757	3,010	2,663	2,682	2,437	1,871	(a)
Mexico—							
White arsenic	14,776	9,496	9,533	7,452	3,520	8,845	12,561
United States—							
White arsenic	21,740	9,117	16,746	17,292	11,424	11,851	14,455
Brazil—							
White arsenic	947	816	985	1,003	943	1,050	1,300
Peru—							
White arsenic	3,149	741	598	995	—	—	(a)
Iran—							
Ore	(a)	(a)	500	(a)	(a)	750	(a)
Japan—							
White arsenic	(a)	1,075	1,385	2,052	2,762	1,601	(a)

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

(a) Information not available.

(b) Included with India.

(c) Estimated.

(d) Revised.

(e) Directly usable ore only. Figures for concentrates are not available.

(f) Content of pyrites mined.

EXPORTS OF ARSENIC, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
White arsenic	6	} 532	327	146	146	4,554	3,583
Other compounds of arsenic	2						
Southern Rhodesia—							
White arsenic	3	—	10	—	—	—	—
Canada—							
White arsenic, etc. ..	2,710	767	1,951	1,809	1,732	1,593	2,166
Hong Kong (re-exports)—							
Arsenic	(a)	—	1	(a)	(a)	—	—
Australia—							
White arsenic	} (b) 63	{ (b) 12	12	(b) 14	24	16	9
Other compounds ..								{ (b) 20	(b) —	(b) 35	68	64	25
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Sulphide	(a)	(a)	(a)	109	50	124	142
White arsenic	(a)	(a)	(a)	149	519	1,879	320
Arsenates	(a)	(a)	(a)	940	223	877	615
France—							
White arsenic	1	3	83	27	64	834	4,941
Arsenate of lead	14	940	3,240	132	19	44	49
Other arsenates	(c) 28	(c) 10	(c) 139	1,533	439	497	240
Germany (Federal)—							
Ore, including antimony ore	(a)	(a)	(a)	15	20	232	(a)
White arsenic, etc. ..	(a)	(a)	(a)	36	1,064	1,106	3,449
Italy—							
White arsenic	(a)	(a)	—	964	345	35	12
Portugal—							
Ore	—	170	39	299	—	50	(a)
White arsenic	138	299	719	1,104	732	1,225	(a)
Sweden—							
White arsenic	(a)	(a)	(a)	(a)	(a)	9,922	16,511
Mexico—							
White arsenic, pure ..	7,833	6,517	6,848	6,104	4,610	7,628	} 8,449
do. crude	7,472	3,493	3,040	1,657	106	—	
Ores and concentrates ..	233	152	—	83	—	—	(a)
As ₂ O ₃ content (d)	14,251	9,211	8,981	7,152	3,368	8,429	(a)
United States—							
White arsenic	766	(a)	(a)	(a)	(a)	(a)	(a)
Arsenate of lead	2,830	1,248	1,386	910	384	464	280
Arsenate of lime	1,562	3,070	2,218	2,040	1,807	1,722	2,391
Peru—							
White arsenic	4,207	2,846	441	570	366	7	(a)
Turkey—							
Ore	1	—	3	1	2	5	2

(a) Information not available.

(b) Years ended June 30 of that stated.

(c) Arsenate of soda only.

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

IMPORTS OF ARSENIC, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
White arsenic	2,476	4,269	5,706	7,387	2,965	5,803	6,780
Other compounds ..	—	(d) 262	1	—	(d) 1	—	8
Union of South Africa—							
Arsenate of soda (b) ..	52	33	11	—	—	—	(a)
Canada—							
Sulphide	—	—	110	38	115	7	16
White arsenic	—	—	2	—	—	—	2
Arsenate of lead	—	—	—	—	—	—	26
Arsenate of lime	14	27	—	—	—	—	26
Hong Kong (total imports)—							
Arsenic	(a)	—	5	(a)	(a)	(a)	(a)
India—							
Arsenic and its oxides ..	125	131	990	135	64	73	185
Australia—							
White arsenic	10,113	1,645	1,586	1,227	1,271	2,149	1,974
Other compounds	16	66	56	156	147	122	190
New Zealand—							
White arsenic, etc. ..	130	31	56	16	70	29	76
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
White arsenic	(a)	(a)	(a)	394	104	97	15
Bulgaria—							
White arsenic	—	12	(a)	(a)	(a)	(a)	(a)
Czechoslovakia—							
Sulphide	(a)	20	102	(c) 33	(a)	(a)	(a)
Metallic arsenic	(a)	1	16	(c) 13	(a)	(a)	(a)
White arsenic	(a)	68	88	(c) 138	(a)	(a)	(a)
France—							
Sulphide	—	2	6	(a)	(a)	(a)	(a)
Metallic arsenic	—	—	4	(a)	(a)	(a)	(a)
White arsenic	—	258	394	1,057	434	65	12
Arsenate of lead	—	2	41	—	—	—	—
Germany (Federal)—							
White arsenic, etc. ..	(a)	(a)	(a)	3,004	51	1,696	2,459
Italy—							
White arsenic	(a)	(a)	249	456	381	213	303
Metallic arsenic	—	—	2	1	—	(a)	(a)
Netherlands—							
White arsenic	(a)	(a)	(a)	10	19	76	144
Arsenates	(a)	(a)	(a)	300	207	400	265
Portugal—							
Metallic arsenic	1	—	1	1	—	—	(a)
White arsenic	—	49	1	1	—	1	(a)
Arsenate of soda	6	8	3	—	2	3	(a)
Spain—							
Arsenic	1	2	—	—	—	—	—
Algeria—							
White arsenic	2	—	11	3	49	17	17
Sulphide	—	—	2	—	2	5	1
Arsenates	279	107	177	27	18	25	30
Madagascar—							
Arsenates	20	22	36	10	(a)	(a)	(a)

(a) Information not available.

(b) Includes arsenite of soda.

(c) January to October only.

(d) Excess of re-exports.

IMPORTS OF ARSENIC, ETC. (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Tunis—							
Sulphide	—	—	—	1	(a)	(a)	(a)
Arsenates	5	5	—	1	(a)	(a)	(a)
United States—							
Metallic arsenic	23	41	8	16	20	62	99
White arsenic	11,282	12,340	12,446	8,336	4,193	13,191	12,963
Sulphide	994	39	20	40	20	66	66
Arsenates of lime and soda	—	—	—	—	—	151	774
Argentina—							
Sulphide	—	2	(a)	(a)	(a)	(a)	(a)
White arsenic	1,012	708	(a)	(a)	(a)	(a)	(a)
Compounds	—	5	(a)	(a)	(a)	(a)	(a)
Brazil—							
White arsenic	2,024	654	791	360	367	(a)	(a)
Arsenate of lead	1,718	425	275	177	1,271	(a)	(a)
Chile—							
Metallic arsenic	—	25	} (a)	(a)	(a)	(a)	(a)
White arsenic	15	21					
Arsenate of lead	97	13					
Other arsenic compounds	3	6					
Colombia—							
White arsenic, etc. ..	155	28	(a)	(a)	(a)	(a)	(a)
Uruguay—							
White arsenic	(a)	(a)	(a)	179	266	311	(a)
Arsenate of lead	(a)	(a)	(a)	56	36	135	(a)
Venezuela—							
White arsenic	—	32	109	16	(a)	(a)	(a)
Turkey—							
Arsenic compounds ..	50	24	44	15	22	11	36

(a) Information not available.

ASBESTOS

PRODUCTION OF ASBESTOS

(Long tons)

Producing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Bechuanaland	—	—	—	—	—	—	36
Kenya	385	162	573	502	705	225	373
Southern Rhodesia .. .	50,312	49,886	48,298	61,355	71,105	63,863	69,342
Swaziland	20,907	28,695	24,959	28,956	30,328	29,167	31,218
Union of South Africa—							
Amosite	14,944	8,782	16,791	27,127	37,615	37,851	48,262
Blue	8,635	7,760	8,106	9,735	18,695	27,320	30,053
Chrysotile	1,576	1,487	2,012	3,962	6,796	12,798	17,419
Anthophyllite	38	27	27	12	137	79	131
Canada (b)—							
Chrysotile	416,871	498,376	590,911	639,972	513,309	781,557	858,927
Crude	876	663	855	872	581	807	668
Fibre	196,221	203,780	198,389	216,029	173,735	272,495	297,322
Shorts and waste .. .	219,774	293,933	391,667	423,071	338,992	508,255	570,937
Stone and gravel (waste rock only) (c) .. .	4,562	5,658	8,580	39,433	31,510	42,863	30,145
Cyprus	3,132	4,077	6,687	7,978	12,358	14,752	16,909
India	820	293	160	28	146	218	433
Australia	1,629	620	1,377	1,327	1,645	1,617	2,558
New Zealand	2	—	—	—	—	41	813
Total	519,000	600,000	700,000	781,000	693,000	969,400	1,086,700
FOREIGN COUNTRIES							
Finland	4,131	5,690	6,252	10,647	10,320	10,776	(a)
France	394	566	919	1,288	1,073	7,338	(a)
Greece	—	4	39	9	9	30	(a)
Italy	5,068	8,675	10,303	12,838	15,122	21,094	22,293
Portugal	20	12	90	407	99	253	307
Spain	—	—	—	34	40	(a)	(a)
Yugoslavia	—	—	350	740	1,120	94	1,499
Egypt	84	64	999	1,599	115	256	1,227
Madagascar	1	1	—	—	2	—	17
Morocco (French) .. .	472	439	778	394	396	503	591
United States—							
Chrysotile	10,702	12,489	21,841	33,247	38,320	36,927	46,187
Amphibole	214	390	605				
Argentina	151	(a)	(a)	(a)	(a)	(a)	(a)
Bolivia (exports) .. .	60	—	139	145	180	163	311
Brazil	2,680	1,195	2,589	1,283	1,393	831	(a)
Chile	(a)	(a)	(a)	148	582	169	(a)
Venezuela	—	64	236	189	194	187	256
Japan—							
Chrysotile	4,915	3,891	3,640	4,517	5,126	5,575	6,047
Amphibole	3,002	43	542	216	244		
Korea (Southern) .. .	1,282	(a)	(a)	(a)	(a)	(a)	(a)
Turkey	136	54	241	200	246	241	79
Total*	31,000	32,000	49,000	68,000	74,000	80,000	98,000
WORLD'S TOTAL* .. .	550,000	632,000	749,000	849,000	767,000	1,049,000	1,185,000

*Excluding asbestos produced in Czechoslovakia, Roumania, 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	1945	1946	1947	1948	1949	1950	1951	
BRITISH COUNTRIES								
United Kingdom—								
Unmanufactured—								
Crude and fibre ..	156	632	830	1,136	1,923	2,434	2,665	
Waste, incl. asbestic ..	251	296	1,221	638	920	1,163	1,021	
Packing, etc. ..	5,628	10,335	10,816	12,624	11,388	10,683	13,581	
Cement products ..	23,815	39,443	80,181	107,790	116,393	107,978	123,078	
Yarn and cloth ..	1,052	1,708	1,696	1,887	2,002	1,995	2,290	
Other manufactures ..	3,158	7,243	6,780	8,908	8,593	7,851	12,818	
Kenya and Uganda (c)—								
Manufactured ..	(£110)	37	202	5	(a)	3	—	
Southern Rhodesia—								
Unmanufactured ..	44,867	55,129	50,290	60,503	65,007	65,874	61,012	
Cement sheets ..	(£19,008)	(£23,631)	(£17,961)	(£29,734)	(£122,052)	(£134,635)	(£136,234)	
Other manufactures ..	(£5,099)	(£5,426)	(£15,448)	(£10,446)	(£26,581)	(£40,487)	(£52,560)	
Union of South Africa—								
Unmanufactured ..	35,983	42,762	57,827	57,127	82,244	90,695	112,620	
Sheets ..	} (£81,086)	} (£34,057)	} (£40,700)	} (£42,876)	} (£61,032)	(a)	(a)	
Other manufactures ..						(a)	(a)	
	(£ S. A.)	(£36,014)	(£63,496)	(£80,968)	(£109,976)	(a)	(a)	
Canada—								
Crude ..	771	571	851	779	563	754	589	
Fibre ..	187,290	192,172	199,726	211,676	162,179	258,748	289,816	
Sorts and waste ..	205,294	271,707	368,080	404,012	314,927	481,550	550,946	
Manufactured ..	(£76,775)	(£149,583)	(£168,232)	(£143,960)	(£96,969)	(£237,958)	(£507,794)	
Malaya (incl. re-exports)—								
Sheets ..	(a)	2	174	854	1,966	3,061	3,963	
Other manufactures ..	(a)	9	5	25	93	59	104	
Cyprus—								
Unmanufactured ..	3,445	6,606	7,021	7,980	11,098	15,471	15,088	
Hong Kong (re-exports)—								
Manufactures ..	(a)	(£5,082)	(£11,608)	(£12,984)	(£44,188)	(£114,977)	(£326,041)	
Australia—								
Unmanufactured ..	32	496	652	278	346	385	588	
Packing (£ Australian) (d)	(£1,242)	(£2,846)	(£16,380)	(£4,493)	(£8,112)	(£15,636)	(a)	
New Zealand—								
Unmanufactured ..	—	—	(a)	21	—	—	4	
FOREIGN COUNTRIES								
Austria—								
Unmanufactured ..	(a)	(a)	283	29	61	21	29	
Manufactured ..	(a)	(a)	2	44	50	65	69	
Belgium-Luxemburg E.U.—								
Unmanufactured ..	(a)	(a)	(a)	36	685	626	692	
Spun and woven ..	} (a)	} (a)	} (a)	200	205	291	203	
Paper and board ..				540	386	340	838	
Cement sheets and tiles ..				25,275	35,614	58,229	82,011	
Other manufactures ..				63	25	32	221	
Czechoslovakia—								
Unmanufactured ..	} (a)	} {	—	(b) —	(a)	(a)	(a)	
Spun and woven ..			4	33	(b) 44	(a)	(a)	(a)
Paper and board ..			197	108	(b) 51	(a)	(a)	(a)
Other manufactures ..			17	64	(b) 21	(a)	(a)	(a)
Finland—								
Unmanufactured ..	945	995	1,583	2,472	1,798	2,264	2,880	
Manufactured ..	409	614	820	1,054	980	800	860	
France—								
Unmanufactured ..	1	76	137	264	445	2,062	2,504	
Spun and woven ..	25	199	329	498	510	539	727	
Paper and board ..	40	226	360	346	306	287	433	
Brake linings ..	3	21	66	(a)	(a)	(a)	(a)	

(a) Information not available.

(b) January to October only.

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

(d) Years ended 30 June of that stated.

EXPORTS OF ASBESTOS (Cont.)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Germany—							
Unmanufactured ..	} (a)	(a)	(a)	{ —	—	15	} 40
Spun and woven ..						48	
Paper and board ..						360	
Other manufactures ..						261	
Italy—							
Unmanufactured ..	(a)	(a)	1,313	3,283	3,962	2,840	1,384
Manufactured ..	(a)	(a)	5,631	7,269	15,369	31,779	27,189
Netherlands—							
Unmanufactured ..	(a)	—	17	8	41	8	27
Cement sheets, tiles, etc.	(a)	—	1,098	262	450	862	1,811
Portugal—							
Unmanufactured ..	2	—	14	172	35	166	78
Spain—							
Unmanufactured ..	10	3	7	9	1	2	10
Manufactured ..	66	77	75	35	35	252	499
Sweden—							
Unmanufactured ..	—	—	109	—	1	240	43
Manufactured ..	7	33	55	20	14	19	31
Switzerland (including mica)—							
Unmanufactured ..	—	1	1	49	61	91	38
Manufactured ..	13	243	372	399	262	281	397
Yugoslavia—							
Unmanufactured ..	(a)	(a)	(a)	(a)	(a)	34	204
Morocco (French)—							
Unmanufactured ..	(a)	(a)	(a)	—	8	104	177
United States—							
Unmanufactured ..	7,634	9,831	1,863	5,830	15,733	16,876	12,766
Spun, woven and packing	1,486	2,078	1,876	1,406	1,079	1,085	1,051
Paper and board ..	673	583	963	1,463	—	—	—
Brake linings ..	(£451,367)	(£627,251)	(£858,551)	(£655,638)	(£954,219)	(£1,223,801)	(£2,628,549)
Clutch facings ..	(£138,135)	(£124,081)	(£197,193)	(£136,709)	(£141,575)	(£206,083)	(£334,255)
Pipe covering and cement	1,629	985	2,469	1,428	3,872	1,021	1,809
Other manufactures ..	5,398	7,602	5,004	3,319	19,073	11,540	13,176
Argentina—							
Manufactured ..	19	4	(a)	(a)	(a)	(a)	(a)
Bolivia—							
Unmanufactured ..	60	—	139	145	180	163	311
Brazil—							
Unmanufactured ..	—	—	50	—	—	(a)	(a)
Peru—							
Manufactured ..	123	620	(a)	(a)	(a)	(a)	(a)
Turkey—							
Unmanufactured ..	(a)	(a)	295	171	372	28	15

(a) Information not available.

IMPORTS OF ASBESTOS

(Less Re-exports)

(Long tons)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Unmanufactured—							
Crude and fibre ..	64,280	53,505	66,788	86,827	92,277	109,498	121,894
Waste, including							
asbestic	1,446	1,217	4,397	5,526	3,231	10,208	10,490
Packing, etc.	7	15	—	9	7	(a)	(a)
Cement products	—	932	2,050	1,030	3,328	6,521	265
Other manufactures	10	4	37	145	103	150	2
Anglo-Egyptian Sudan—							
Sheets, pipes, etc. ..	517	701	877	3,097	3,485	2,249	3,861
Kenya (c)—							
Manufactured	120	551	1,149	3,149	3,399	3,020	3,797
Mauritius—							
Manufactured	(£1,746)	(a)	(£5,317)	(£1,748)	26	16	178
Northern Rhodesia—							
Cement sheets, etc. ..	(a)	(a)	(a)	(a)	(£165,022)	(£224,620)	(£293,559)
Nyasaland—							
Cement sheets, etc. ..	(a)	494	1,033	1,231	1,199	1,817	726
Seychelles—							
Cement sheets	—	22	83	269	272	131	415
Southern Rhodesia (total imports)—							
Cement sheets	(£7,693)	(£4,764)	(£3,645)	(£8,524)	(£26,307)	(£20,274)	(£49,753)
Other manufactures ..	(£29,195)	(£18,544)	1,150	2,583	3,667	4,083	3,400
South West Africa—							
Packing (£ S.A.)	(a)	(£835)	(£2,584)	(£2,293)	(£4,467)	(a)	(a)
Cement sheets (£ S.A.)	(£8,541)	(£7,710)	(£19,490)	(£18,286)	(£14,832)	(a)	(a)
Other manufactures (£ S.A.)	(£2,686)	(£4,680)	(£7,659)	(£16,777)	(£18,276)	(a)	(a)
Tanganyika—							
Manufactured	132	122	915	1,389	2,765	3,575	3,316
Uganda—							
Manufactured	(f)	(f)	(f)	(f)	1,284	1,220	1,315
Union of South Africa—							
Packing (£ S.A.)	(£68,864)	(£95,175)	(£119,372)	(£98,720)	(£93,059)	(d) (£3,891)	(a)
Cement products (£ S.A.)	(£300)	(£53)	(£26,185)	(£21,690)	(£9,266)	(£9,124)	(a)
Other manufactures (£ S.A.)	(£5,039)	(£8,987)	(£55,110)	(£140,419)	(£200,162)	(£54,338)	(a)
Zanzibar—							
Manufactured	(a)	(a)	(a)	198	64	422	121
Canada (c)—							
Packing	96	100	109	77	114	149	184
Other manufactures ..	(£474,770)	(£494,032)	(£876,764)	(£896,673)	(£643,344)	(£797,705)	(£1,056,859)
Newfoundland (b)—							
Asbestos and manufactures	(£12,082)	(£13,387)	(£23,233)	(£21,103)	(b)	(b)	(b)
British West Indies—							
Barbados—							
Cement sheets	(£3,988)	(£10,638)	(£18,818)	(£13,040)	(£14,268)	(£17,238)	(£24,155)
Bermuda—							
Sheets, etc.	(a)	(a)	(a)	(£8,228)	(£7,114)	(£2,400)	(£12,527)
Grenada—							
Manufactured	(£8)	(£4,072)	(£1,278)	(£4,446)	(d) (£264)	(£829)	(£1,357)
Jamaica—							
Manufactured	(a)	(a)	(£15,279)	(£47,525)	(£35,150)	(£55,789)	(£108,549)
Trinidad and Tobago—							
Cement products	1,274	964	8,797	2,176	1,730	856	2,051
Other manufactures ..	145	143	104	254	174	215	258

(a) Information not available.

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

(c) Including Newfoundland from April 1, 1949.

(d) Excess of re-exports.

(e) Including Uganda up to 1948 inclusive.

(f) Included with Kenya up to 1948 inclusive.

IMPORTS OF ASBESTOS (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES (Cont.)							
British Guiana—							
Cement sheets, etc. ..	(a)	414	385	704	(a)	(a)	542
Other manufactures ..	(a)	47	32	11	(a)	(a)	255
Aden—							
Cement sheets	21	29	38	—	—	—	—
Other manufactures ..	(£83)	(£897)	(£1,227)	—	—	—	—
Burma—							
Packing	(a)	(b) (£663)	(a)	(a)	(a)	(a)	(a)
Cement products ..	(a)	(b) (£22)	(a)	(a)	(a)	(a)	(a)
Other manufactures ..	(a)	(b) (£185)	(a)	(a)	(a)	(a)	(a)
India—							
Unmanufactured ..	5,527	8,355	3,794	3,644	7,645	10,783	10,925
Cement products ..	453	258	1,225	1,041	9,958	6,213	4,391
Packing	(£35,788)	(£51,372)	(£57,226)	(£74,421)	(£91,540)	(£24,652)	(£32,291)
Other manufactures ..	(£112,701)	(£129,929)	(£138,997)	(£60,146)	(£202,061)	(£88,121)	(£217,788)
Malaya (c)—							
Sheets	(a)	1,780	6,396	12,042	6,429	8,267	12,536
Other manufactures ..	(a)	645	1,412	1,156	1,341	2,402	4,921
Cyprus—							
Sheets, pipes, etc. ..	(a)	89	754	998	711	540	3,680
Other manufactures ..	(£746)	(£3,838)	(£3,452)	(£2,313)	(£813)	(£1,691)	(£411)
Hong Kong (total imports)—							
Manufactures	(a)	(£9,185)	(£29,799)	(£17,261)	(£71,024)	(£155,009)	(£477,201)
Palestine—							
Manufactured	(£9,531)	(£46,558)	(a)	(a)	(f)	(f)	(f)
Sarawak—							
Sheets	(a)	(a)	(a)	138	124	233	224
Australia—							
Crude	9,131	18,697	14,246	14,857	14,767	29,536	25,289
Packing (£ Australian) (g)	(£198,958)	(£198,699)	(£165,140)	(£343,230)	(£363,820)	(£244,018)	(a)
New Zealand—							
Unmanufactured ..	3,471	1,651	2,295	1,784	1,790	3,785	2,348
Sheets	(d) 89	(d) 610	(d) 47,491	(d) 467,878	(d) 310,094	(d) 447,426	(d) 994,466
Lining and packing (£ N.Z.) ..	(£66,932)	(£70,256)	(£96,919)	(a)	(£92,816)	(£90,231)	(£112,264)
Irish Republic—							
Manufactured	800	1,717	2,036	2,184	6,426	5,763	8,764
FOREIGN COUNTRIES							
Austria—							
Unmanufactured ..	(a)	(a)	833	1,563	1,989	3,441	8,458
Manufactured	(a)	(a)	7	65	75	39	42
Belgium-Luxemburg E.U.—							
Unmanufactured ..	(a)	(a)	(a)	17,111	14,563	21,510	32,018
Spun and woven ..							
Paper and board ..							
Cement sheets and tiles..							
Other manufactures ..							
Bulgaria—							
Unmanufactured ..	—	—	(a)	(a)	(a)	(a)	(a)
Manufactured	1	34	(a)	(a)	(a)	(a)	(a)
Czechoslovakia—							
Unmanufactured ..	(a)	886	2,146	(e) 5,501	(a)	(a)	(a)
Spun and woven ..							
Paper and board ..							
Other manufactures ..							
Denmark—							
Unmanufactured ..	1,152	3,405	6,865	6,083	4,930	9,828	8,257
Spun and woven ..	5	120	106	128	114	107	113
Paper and board ..	121	193	235	335	454	326	502
Packing, etc.	25	367	267	219	174	270	58
Cement sheets	—	36	30	19	20	5,338	52

(a) Information not available.

(b) February to September only.

(c) Total imports.

(d) Square yards.

(e) January to October only.

(f) See "Israel" under Foreign Countries.

(g) Years ended June 30 of that stated.

IMPORTS OF ASBESTOS (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Finland (b)—							
Unmanufactured	2	190	222	517	548	972	1,132
Manufactured	13	251	416	287	218	209	587
France—							
Unmanufactured	9,628	36,735	18,722	20,369	24,923	33,028	39,815
Spun and woven	1	672	84	155	88	88	103
Paper and board	25	31	468	122	48	142	136
Brake linings, etc.	5	86	34	(a)	(a)	(a)	(a)
Germany (Federal)—							
Unmanufactured	(a)	(a)	(a)	3,233	7,527	13,638	24,928
Spun and woven				12	153	405	679
Paper and board				133	623	348	
Other manufactures				2	10	28	
Greece	—	49	62	102	191	175	89
Iceland—							
Unmanufactured	12	—	(a)	(a)	34	31	34
Manufactured	230	230	(a)	(a)	69	124	27
Italy—							
Unmanufactured	(a)	(a)	1,916	2,065	2,755	6,166	9,285
Manufactured	(a)	(a)	263	366	340	612	1,107
Netherlands—							
Unmanufactured	(a)	2,353	3,492	4,118	2,608	6,825	6,140
Cement sheets, tiles, etc.	(a)	4,358	4,910	4,890	13,618	26,343	32,142
Other manufactures	(a)	(a)	(a)	1,209	1,336	1,283	1,342
Norway—							
Unmanufactured	740	1,397	1,908	1,312	2,023	2,634	3,302
Manufactured	319	679	836	1,048	1,065	745	1,406
Portugal—							
Unmanufactured	1,128	2,531	1,268	1,510	2,548	2,286	1,453
Manufactured	33	62	72	122	48	50	(a)
Spain—							
Unmanufactured	1,317	4,497	2,467	315	1,168	4,315	4,615
Manufactured	334	582	237	96	324	253	296
Sweden—							
Unmanufactured	7,665	5,161	8,259	3,563	8,957	10,084	5,198
Manufactured	585	1,923	1,951	1,923	1,496	1,811	2,124
Switzerland (including mica)—							
Unmanufactured	988	2,633	2,065	2,062	3,454	4,230	5,908
Manufactured	105	1,279	1,255	1,473	1,002	1,491	2,157
Yugoslavia—							
Unmanufactured	(a)	(a)	(a)	(a)	(a)	3,893	295
Manufactured	(a)	(a)	(a)	(a)	(a)	195	142
Algeria—							
Unmanufactured	—	21	58	448	488	1,527	1,652
Manufactured	55	300	166	188	141	153	173
Belgian Congo—							
Unmanufactured	—	—	—	(a)	(a)	1,323	(a)
Egypt—							
Unmanufactured	295	(b) 154	(b) 155	(b) 470	(b) 316	854	(a)
Paper and board	203	(b) 186	(b) 70	(b) 93	(b) 188	(a)	(a)
Other manufactures	126	182	(b) 137	(b) 179	(b) 205	(a)	(a)
Costa Rica—							
Unmanufactured	60	76	73	14	20	(a)	(a)
Honduras—							
Manufactured	940	434	(a)	(a)	(a)	(a)	(a)
Mexico—							
Unmanufactured	3,230	3,334	4,315	3,853	3,485	5,343	(a)
Manufactured	788	840	750	1,001	(a)	(a)	(a)
Netherlands West Indies—							
Manufactured	2,691	3,140	3,974	5,113	4,497	(a)	(a)

(a) Information not available.

(b) Total imports.

IMPORTS OF ASBESTOS (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
United States—							
Unmanufactured—							
Crude	17,264	12,391	32,100	34,008	41,035	25,919	31,518
Mill fibre	122,726	136,817	145,004	157,954	113,172	157,571	201,137
Other	193,977	257,634	354,003	386,504	305,884	446,128	447,589
Manufactured	138	388	771	545	375	3,310	851
Argentina—							
Spun and woven ..	220	898	902	1,100	305	341	1,019
Paper and board ..	9,655	4,803	7,119	7,577	5,825	9,152	18,043
Brazil (total imports)—							
Unmanufactured ..	1,992	3,046	3,130	4,893	4,208	8,301	(a)
Manufactured	930	2,054	2,088	1,586	1,587	(a)	(a)
Chile—							
Manufactured	1,676	1,970	2,462	2,412	2,444	2,624	2,759
Colombia—							
Unmanufactured ..	(a)	1,745	(a)	(a)	(a)	(a)	(a)
Manufactured	(a)	446	(a)	(a)	(a)	(a)	(a)
Peru—							
Unmanufactured ..	(a)	(a)	(a)	475	725	798	(a)
Manufactured	(a)	(a)	(a)	321	145	192	(a)
Uruguay	487	634	666	979	1,518	1,708	(a)
Venezuela—							
Unmanufactured ..	57	175	771	905	(a)	(a)	(a)
Manufactured	5,409	20,455	24,251	(a)	(a)	(a)	(a)
China	(a)	562	764	712	(a)	(a)	(a)
Israel—							
Manufactured	(b)	(b)	(b)	(b)	(£38,048)	(£35,670)	(a)
Japan—							
Unmanufactured ..	(a)	(a)	(a)	(a)	1,181	(a)	(c) 19,711
Syria and Lebanon—							
Cement sheets, etc. ..	—	284	(a)	(a)	(a)	(a)	(a)
Other manufactures ..	7	46	(a)	(a)	(a)	(a)	(a)
Turkey—							
Manufactured	112	92	169	216	487	1,541	2,119

(a) Information not available.

(b) See "Palestine" under British Countries.

(c) Including crude mica.

BARIUM MINERALS

PRODUCTION OF BARIUM MINERALS*

(Long tons)

Producing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Great Britain—							
Barytes, unground ..	53,874	68,101	46,327	} 88,228	92,389	73,813	59,375
Witherite, unground ..	10,766	14,376	14,727				
Barytes—							
Ground, bleached ..	3,062	2,672	3,370	3,655	19	—	—
do. unbleached ..	25,513	25,776	30,222	29,881	24,925	22,796	29,185
Antigua (Leeward Islands)	357	51	14	—	—	—	—
Canada	124,633	107,517	114,888	85,488	42,088	68,908	75,463
Southern Rhodesia ..	—	171	18	50	480	257	83
South West Africa ..	—	—	—	—	47	—	—
Swaziland	(b) 78	(b) 220	(c) 169	(c) 97	(c) 102	(c) 434	469
Union of South Africa ..	2,174	2,289	2,629	1,706	2,209	2,232	2,006
India	24,655	29,091	24,310	23,143	21,118	11,963	8,224
Palestine	23	3	(a)	(a)	(a)	(a)	(a)
Australia	3,447	7,589	5,413	3,770	5,464	5,933	6,178
Irish Republic—							
Barytes, refined	6,690	6,130	6,298	3,197	3,597	25,179	(a)
do. unrefined	9,760	7,213	6,425	3,727	2,277	5,831	(a)
FOREIGN COUNTRIES							
Austria	—	803	1,912	3,781	8,130	9,959	9,493
France	13,577	34,024	53,118	55,826	29,817	32,822	26,100
Germany	(a)	(f) 1,968	(f) 10,388	(f) 18,767	(h) 178,600	(h) 305,985	(h) 410,884
Greece	—	—	(i) 12,783	18,411	15,359	20,471	29,365
Italy	11,747	31,624	67,650	61,251	45,880	47,382	73,920
Portugal	337	287	1,192	400	420	126	708
Spain	9,717	12,052	19,504	13,929	7,544	10,653	10,665
Sweden (Sales)	1,230	497	1,298	1,884	908	49	(a)
Yugoslavia (exports) ..	(a)	(a)	(a)	(a)	(a)	11,880	9,695
Algeria	2,734	7,320	23,590	13,885	18,570	19,580	20,690
Egypt	53	—	164	—	30	—	40
Morocco (French)	—	—	—	—	—	4,834	3,210
Tunis	69	404	1,466	224	619	25	10
Cuba (i)	228	(a)	(a)	322	(a)	(a)	(a)
United States	618,152	647,521	789,481	694,501	652,954	620,905	768,454
Argentina	8,449	(a)	(a)	(a)	(a)	(a)	(a)
Brazil	607	10,163	13,750	(a)	(a)	(a)	(a)
Chile	3,110	3,693	(a)	2,107	1,437	1,246	1,053
Peru	4,173	7,073	6,456	1,759	6,250	2,983	(a)
Japan	7,421	709	929	3,281	9,126	14,232	16,440
TOTAL †	1,000,000	1,040,000	1,300,000	1,180,000	1,220,000	1,350,000	1,630,000

* Barytes unless otherwise stated.

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

(a) Information not available.

(b) Unground.

(c) Ground.

(d) Bavaria and Saxony only.

(e) April to December only.

(f) French Zone only.

(g) Bizonal area only.

(h) Federal Republic.

(i) Exports.

EXPORTS OF BARIUM MINERALS, ETC.*

(Domestic Produce)

(Long tons)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951			
BRITISH COUNTRIES										
United Kingdom—										
Unground barytes ..	30	160	93	185	—	(a)	(a)			
Ground barytes ..	941	629	1,539	4,718	6,727	466	191			
Dioxide ..	68	183	10	31	44	} 3,221	} 3,251			
Barium, compounds, excluding blanc fixe ..	2,778	3,704	3,140	3,653	2,381					
Southern Rhodesia—										
Barytes ..	34	81	143	135	570	177	222			
South West Africa—										
Barytes ..	—	—	—	—	36	—	—			
Antigua (Leeward Is.)—										
Barytes ..	357	51	14	—	—	—	—			
Canada—										
Unground ..	41,000	75,965	67,300	34,461	35,470	(a)	(a)			
Ground ..	54,000	29,542	55,500	51,063	8,688	(a)	(a)			
Hong Kong (re-exports)—										
Barytes ..	(a)	(a)	(a)	(a)	9	13	—			
India—										
Unground barytes ..	—	—	14,629	14,231	14,535	8,268	5,085			
Australia—										
Unground barytes ..	} (b) 1,217	{ 1,143	629	326	952	190	119			
Ground barytes ..			1,889	1,280	1,046	2,334	1,408			
Sulphate (b) ..			68	22	1	3	(f) 2			
Irish Republic—										
Unground barytes ..	2,330	732	80	594	(a)	(a)	(a)			
Ground barytes ..	4,226	6,473	3,205	2,504	2,277	2,241	766			
FOREIGN COUNTRIES										
Belgium-Luxemburg E.U.—										
Barytes and witherite ..	(a)	(a)	(a)	114	252	127	5			
Carbonate ..	(a)	(a)	(a)	(a)	(a)	(a)	523			
Chloride ..	(a)	(a)	(a)	717	512	140	1,338			
Sulphate ..	(a)	(a)	(a)	(a)	(a)	1,166	1,545			
Sulphide ..	(a)	(a)	(a)	17	71	15	10			
Czechoslovakia—										
Barytes ..	(a)	—	35	(d) 52	(a)	(a)	(a)			
Sulphate ..	(a)	35	50	(d) 77	(a)	(a)	(a)			
France—										
Barytes (-) ..	—	139	1,665	1,306	646	933	2,616			
Precipitated carbonate ..	—	21	1,459	1,667	1,561	2,286	1,965			
Barium compounds ..	64	381	345	847	1,722	1,235	1,276			
Germany (Federal)—										
Barytes and celestite ..	} (a)	(a)	(a)	{ 18,156	23,527	109,748	} 130,752			
Witherite and strontianite ..								185	20	18
Carbonate ..								205	645	3,934
Chloride ..								225	1,405	2,668
Nitrate ..								45	28	37
Sulphate ..	234	2,174	7,480	(e) 199	(e) 6,924					
Greece—										
Barytes ..	(a)	—	12,783	18,349	23,396	19,793	25,728			
Italy—										
Barytes ..	(a)	(a)	607	1,296	3,158	11,145	36,824			
Sulphate ..	(a)	(a)	10,243	8,886	11,651	1,097	823			
Netherlands—										
Barytes ..	(a)	—	16	132	148	—	—			
Sweden—										
Barytes and witherite ..	15	—	689	10	5	—	—			

* For Lithopone, see "Zinc," pages 326-328.

(b) Years ended June 30 of that stated.

(d) January to October only.

(a) Information not available.

(c) Including precipitated sulphate.

(e) January to September only.

(f) Calendar year.

EXPORTS OF BARIUM MINERALS, ETC.* (Cont.)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Yugoslavia—							
Unground barytes ..	(a)	(a)	(a)	(a)	(a)	11,865	6,860
Ground barytes	(a)	(a)	(a)	(a)	(a)	15	2,835
Algeria—							
Barytes	561	4,480	17,245	13,956	11,037	18,099	10,124
Morocco (French)—							
Barytes	—	—	—	—	—	591	811
Tunis—							
Barytes	(a)	(a)	(a)	37	(a)	(a)	(a)
Cuba—							
Barytes	228	(a)	(a)	322	—	(a)	(a)
United States—							
Witherite.. .. .	—	—	(a)	(a)	(a)	(a)	(a)

* For Lithopone, see "Zinc," pages 326-328.
(a) Information not available.

IMPORTS OF BARIUM MINERALS, ETC.*

(Less Re-exports)

(Long tons)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Unground barytes ..	1,693	19,619	13,224	10,131	14,973	17,390	38,673
Ground barytes ..	3,968	15,054	17,673	9,934	14,385	17,493	19,616
Barium compounds, excluding blanc fixe ..	—	1	6	1,340	573	279	1,179
Union of South Africa—							
Barytes ..	207	604	664	601	868	254	(a)
Carbonate and dioxide ..	105	311	251	95	195	126	(a)
Canada—							
Barytes ..	1,027	1,381	1,551	1,128	838	1,865	954
Blanc fixe ..	311	355	274	624	747	644	331
British West Indies—							
Trinidad and Tobago—							
Barytes ..	19,327	9,421	16,642	22,898	21,573	20,167	24,687
Hong Kong (total imports)—							
Barytes ..	(a)	(a)	(a)	(a)	176	167	147
India—							
Barytes ..	11	9	70	11	—	6	101
Australia (b)—							
Barytes ..	14	—	—	—	3	57	43
Carbonate ..	(a)	180	51	299	55	326	328
Chloride ..	146	49	100	104	84	128	115
Sulphate ..	(a)	154	169	68	27	213	747
Other compounds ..	(a)	3	25	19	12	21	50
New Zealand—							
Barytes ..	1,156	1,551	505	1,474	668	1,147	999
Irish Republic—							
Ground barytes, including blanc fixe ..	—	4	6	26	20	235	675
FOREIGN COUNTRIES							
Austria—							
Barytes ..	(a)	(a)	1,316	1,769	5,490	6,725	9,817
Carbonate ..	(a)	(a)	25	90	180	373	400
Chloride ..	(a)	(a)	(a)	(a)	122	64	131
Belgium-Luxemburg E.U.—							
Barytes and witherite ..	(a)	(a)	(a)	33,836	3,663	21,314	29,444
Carbonate ..	(a)	(a)	(a)	1,458	738	2,334	3,188
Chloride ..	(a)	(a)	(a)	186	347	842	560
Sulphate ..	(a)	(a)	(a)	(a)	(a)	6,796	(a)
Sulphide ..	(a)	(a)	(a)	(a)	(a)	—	5
Czechoslovakia—							
Unground barytes ..		—	1,823	(c) 1,079	(a)	(a)	(a)
Ground barytes ..		—	10	(c) —	(a)	(a)	(a)
Carbonate ..	(a)	2	357	(c) 500	(a)	(a)	(a)
Chloride ..		—	416	(c) 397	(a)	(a)	(a)
Sulphate ..		(a)	235	(c) 246	(a)	(a)	(a)
Denmark—							
Witherite and carbonate	100	135	53	172	73	125	299
Chloride ..	1	190	73	54	113	105	190
Sulphate ..	47	466	1,050	1,318	716	915	1,937
Finland (total imports)—							
Barytes ..	10	396	2	181	191	233	642
Chloride ..	1	63	128	20	—	5	25
Carbonate ..	10	76	25	23	—	15	59
Sulphate ..	7	43	35	79	230	135	247

* For Lithopone, see "Zinc," pages 329-332.

(a) Information not available.

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

(c) January to October only.

IMPORTS OF BARIUM MINERALS, ETC. (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
France—							
Barytes	175	1,197	8,015	12,272	21,099	41,567	37,399
Witherite	242	349	93	(a)	(a)	(a)	(a)
Chloride	63	434	45	—	—	5	109
Hydrate	—	2	11	—	15	27	10
Nitrate	—	4	—	(a)	(a)	(a)	(a)
Precipitated carbonate ..	25	806	850	104	—	2	—
Sulphate	30	328	552	238	210	339	340
Sulphide	14	46	50	(a)	(a)	(a)	(a)
Germany (Federal)—							
Barytes and celestite ..	(a)	(a)	(a)	—	—	220	} 1,254
Witherite and strontianite	(a)	(a)	(a)	—	2	—	
Italy—							
Barytes	(a)	(a)	—	2	—	13	27
Witherite	(a)	(a)	(a)	(a)	(a)	(a)	501
Carbonate, precipitated	(a)	(a)	(a)	(a)	(a)	(a)	197
Sulphate, precipitated ..	(a)	(a)	10	21	1	33	234
Netherlands—							
Barytes	(a)	1,610	14,024	9,202	10,500	26,236	20,384
Carbonate	(a)	(a)	(a)	592	568	700	1,044
Sulphate	(a)	(a)	(a)	2,711	2,230	3,752	5,388
Blanc fixe	(a)	746	1,117	653	596	615	660
Poland—							
Carbonate	—	5	(a)	(a)	(a)	(a)	(a)
Portugal—							
Barytes	—	—	—	—	—	—	(a)
Carbonate	—	5	11	3	—	—	2
Chloride	130	75	46	27	30	77	67
Sulphate	31	83	79	32	49	30	76
Sweden—							
Barytes and witherite ..	3	968	2,557	1,883	812	1,966	(a)
Sulphate	(a)	(a)	(a)	(a)	927	903	(a)
Algeria—							
Barytes (incl. precipitate)	48	139	69	86	1	357	75
Witherite (incl. precipitate)	—	—	—	15	25	45	35
Mexico—							
Barytes	218	31	473	123	(a)	(a)	(a)
Witherite	67	111	(a)	(a)	(a)	(a)	(a)
Chloride	7	24	(a)	(a)	(a)	(a)	(a)
United States—							
Unground barytes	50,798	39,877	47,520	47,504	23,373	52,126	47,103
Ground barytes	1	—	—	—	188	605	143
Witherite	800	1,008	10	2,205	1,886	1,865	1,800
Sulphate	—	—	(a)	(a)	1	47	11
Barium compounds	90	—	64	135	85	419	2,079
Argentina—							
Barytes	—	1,099	(a)	(a)	(a)	(a)	(a)
Sulphate	63	623	(a)	(a)	(a)	(a)	(a)
Barium compounds	651	829	(a)	(a)	(a)	(a)	(a)
Brazil—							
Chloride	83	121	52	26	110	(a)	(a)
Sulphate	171	579	442	250	488	(a)	(a)
Chile—							
Sulphate	10	3	} (a)	(a)	(a)	(a)	(a)
Carbonate	15	29					
Chloride	101	103					
Oxides	32	16					
Colombia—							
Chloride	1	4	(a)	(a)	(a)	(a)	(a)
Sulphate	795	1,613	(a)	(a)	594	103	(a)

(a) Information not available.

IMPORTS OF BARIUM MINERALS, ETC. (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Peru—							
Barium compounds ..	65	33	(a)	(a)	(a)	(a)	(a)
Uruguay—							
Oxides	(a)	(a)	(a)	23	50	44	(a)
Sulphate	(a)	(a)	(a)	432	250	681	(a)
Venezuela—							
Barytes	35,219	23,919	43,987	25,218	(a)	(a)	(a)
Sulphate	34	3	5	488	(a)	(a)	(a)
Japan—							
Barytes	5,575	—	—	—	—	3	(a)
Turkey—							
Barytes	4	98	37	20	32	28	50
Sulphate	—	—	—	25	8	(a)	(a)
Barium compounds ..	107	8	36	70	48	72	71

(a) Information not available.

BERYL
PRODUCTION OF BERYL
(Long tons)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Northern Rhodesia ..	—	—	—	—	—	5	4
Southern Rhodesia ..	—	—	—	—	—	832	991
South West Africa ..	5	5	51	88	235	648	741
Tanganyika	—	—	—	2	1	—	(a)
Uganda	(b) 3	—	23	44	16	70	2
Union of South Africa ..	—	—	—	—	220	830	583
India	(a)	(a)	(a)	(a)	(a)	(a)	211
Australia	46	23	53	55	35	23	112
FOREIGN COUNTRIES							
Portugal	(a)	(a)	(a)	(a)	3	51	100
Morocco (French) ..	—	—	—	50	157	55	83
Mozambique	2	22	80	16	133	260	226
United States (Shipments)	34	90	130	89	309	499	432
Argentina	187	(a)	(a)	(a)	(a)	(a)	(a)
Brazil	502	1,274	1,011	1,422	2,239	2,166	(a)

(a) Information not available.

(b) Exports.

EXPORTS OF BERYL
(Domestic Produce)
(Long tons)

Exporting Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Southern Rhodesia ..	—	—	—	—	22	743	1,244
South West Africa ..	—	—	53	57	165	360	395
Uganda	3	—	12	39	33	16	—
Union of South Africa ..	—	—	—	—	279	808	801
India	(a)	(a)	(a)	(a)	(a)	(a)	351
FOREIGN COUNTRIES							
Portugal	(a)	(a)	(a)	(a)	(a)	25	115
Morocco (French) ..	—	—	—	(a)	(a)	118	87
Brazil	502	1,273	1,011	1,755	3,030	2,584	(a)

(a) Information not available.

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

Importing Country	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES							
United States	1,073	889	685	1,194	3,403	4,181	3,854

BISMUTH

PRODUCTION OF BISMUTH ORE, ETC.*

(Cwt.)

Producing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Southern Rhodesia—							
Bismuth	—	—	—	2	—	—	—
South West Africa—							
Ore	—	—	—	—	19	286	4
Uganda—							
Ore (<i>Bi content</i>) ..	—	—	—	78	148	57	57
Union of South Africa—							
Ore (<i>Bi content</i>) ..	12	14	—	9	119	142	60
Canada—							
Metal and content of bullion exported ..	1,695	2,147	2,539	2,145	919	1,711	2,089
Australia—							
Concentrates (<i>Bi content</i>)	64	22	86	80	13	18	26
FOREIGN COUNTRIES							
France—							
Mispickel (<i>Bi content</i>) ..	—	—	1,080	1,100	1,161	1,535	(a)
Spain—							
Ore (<i>Bi content</i>) (b) ..	188	421	214	153	294	185	211
Sweden—							
Metal	—	245	216	—	—	—	—
Yugoslavia—							
Bismuth	(a)	(a)	(a)	(a)	(a)	1,091	1,728
Belgian Congo—							
Ore (<i>Bi content</i>) ..	(a)	(a)	16	9	11	13	4
Mozambique—							
Ore (<i>Bi content</i>) ..	—	—	—	—	8	23	14
Mexico—							
Ore (<i>Bi content</i>) ..	3,170	498	5,021	3,161	6,089	5,192	6,656
Bolivia (exports)—							
Ore, etc. (<i>Bi content</i>) ..	302	549	1,751	692	160	480	1,358
Peru—							
Lead-tin-antimony bars (<i>Bi content</i>)	—	1,765	60	930	—	—	(a)
Metal	6,052	4,366	4,602	4,052	4,246	4,465	(a)
Korea (South)—							
Bismuth	(a)	(a)	(a)	2,047	3,405	(a)	(a)

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

(a) Information not available.

(b) Revised.

EXPORTS OF BISMUTH, ETC.

(Domestic Produce)

(Cwt.)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Bismuth	11	413	841	2,208	3,553	3,830	3,572
Bismuth salts	(a)	(a)	(a)	(a)	(a)	3,064	2,326
South West Africa—							
Ore	—	—	—	—	—	230	4
Uganda—							
Ore (<i>Bi content</i>) ..	—	—	—	53	97	72	33
Union of South Africa—							
Bismuth	(a)	15	—	9	166	290	110
Canada—							
Metal	732	1,714	1,089	1,411	1,589	(a)	(a)
Hong Kong (re-exports)—							
Ore	(a)	40	215	(a)	—	—	—
Australia—							
Concentrates	(a)	(a)	(a)	80	80	20	—
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Bismuth	(a)	(a)	(a)	571	472	216	79
Salts	(a)	(a)	(a)	—	708	—	40
France—							
Bismuth salts	—	45	63	(a)	(a)	(a)	(a)
Germany (Federal)—							
Bismuth salts	(a)	(a)	(a)	2	4	756	(b) 681
Yugoslavia—							
Bismuth	(a)	(a)	(a)	(a)	(a)	740	1,352
Mexico—							
Bars, etc. (<i>Bi content</i>) ..	3,176	1,499	3,871	(a)	(c) 2,332	(c) 3,618	(a)
United States—							
Matte, residues, etc. ..	—	839	(a)	(a)	(a)	70	106
Metal and alloys	1,032	1,367	2,150	3,143	1,704	1,779	1,312
Salts	1,102	(a)	(a)	(a)	(a)	(a)	(a)
Bolivia—							
Ore, etc. (<i>Bi content</i>) ..	302	549	1,751	692	160	480	(a)
Chile—							
Bismuth	—	—	(a)	(a)	(a)	(a)	(a)
Salts	15	97	87	29	(a)	(a)	(a)
Peru—							
Bars, etc. (<i>Bi content</i>) ..	6,277	6,334	4,311	5,334	4,376	4,495	(a)

(a) Information not available.

(b) January to September only.

(c) Revised.

IMPORTS OF BISMUTH, ETC.

(Less Re-exports)

(Cwt.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Bismuth	1,990	3,171	2,407	3,938	3,227	3,383	4,977
Canada—							
Bismuth	—	—	36	(c) 1,489	(c) 2,435	—	5
Bismuth salts	(£2,531)	(£3,001)	(£1,730)	(£3,497)	(£6,411)	(£7,623)	(£8,261)
Hong Kong (total imports)—							
Ore	(a)	40	215	(a)	(a)	(a)	(a)
Australia—							
Bismuth	(a)	8	314	463	263	125	188
Bismuth salts	373	174	32	120	124	43	48
New Zealand—							
Bismuth and its salts ..	(£NZ 4,439)	(£NZ 2,785)	(£NZ 1,386)	—	92	120	66
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Bismuth	(a)	(a)	(a)	20	—	20	39
Bismuth salts	(a)	(a)	(a)	511	157	276	128
France—							
Bismuth	1,181	2,057	1,728	(a)	(a)	(a)	(a)
Bismuth salts	—	463	30	(a)	(a)	(a)	(a)
Germany (Federal)—							
Bismuth salts	(a)	(a)	(a)	(a)	(a)	4	(b) 2
Spain—							
Bismuth	—	30	—	—	—	—	79
Bismuth salts	87	186	16	59	—	—	2
Algeria—							
Bismuth salts	—	28	14	14	8	—	2
Mexico—							
Bismuth	6	5	(a)	(a)	(a)	(a)	(a)
Bismuth salts	124	71	9	1	(a)	(a)	(a)
United States—							
Bismuth	2,979	3,771	2,773	2,677	4,838	6,979	4,589
Argentina—							
Bismuth	} 126	57	(a)	(a)	(a)	(a)	(a)
Bismuth salts							
Chile—							
Ore	—	—	(a)	(a)	(a)	(a)	(a)
Bismuth	—	41	19	18	(a)	(a)	(a)
Bismuth salts	46	52	(a)	(a)	(a)	(a)	(a)
Colombia—							
Bismuth salts	42	25	(a)	(a)	(a)	(a)	(a)
Peru—							
Bismuth salts	30	27	(a)	(a)	(a)	(a)	(a)
Venezuela—							
Bismuth salts	(a)	99	(a)	(a)	(a)	(a)	(a)
Turkey—							
Bismuth	—	1	4	7	1	1	2
Bismuth salts	49	22	18	154	77	148	124

(a) Information not available.

(b) January to September only.

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

BORATES

PRODUCTION OF CRUDE BORATES

(Long tons)

Producing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES							
Italy— Boric acid	3,050	4,255	4,907	4,796	4,792	4,713	4,526
United States— Borates	291,013	384,544	448,156	402,618	417,493	578,335	770,354
Argentina— Borate of calcium ..	—	5,167	7,000	(a)	(a)	(a)	(a)
Chile— Borate of calcium ..	1,169	1,454	469	(a)	(a)	(a)	(a)
Iran— Borate of calcium ..	(a)	(a)	(a)	(a)	(d) 300	(d) 300	(a)
Tibet (b)— Borax	(c) 266	(c) 340	(c) 23	(c) 39	(c) 88	(a)	(a)
Turkey— Borates	4,965	2,180	3,556	5,238	6,982	9,628	11,825

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

(a) Information not available.

(b) Imports into India from Tibet.

(c) Years ended March 31 following that stated.

(d) Estimated.

EXPORTS OF BORATES

(Domestic Produce)

(Long tons)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom							
Borax	349	1,606	172	797	919	1,742	1,455
Boric acid	85	574	118	90	246	491	236
Hong Kong (re-exports)—							
Borax	(a)	483	383	513	873	3,315	476
India—							
Borax	—	—	—	—	—	—	9
FOREIGN COUNTRIES							
Austria—							
Boric acid	(a)	(a)	(a)	(a)	(a)	59	12
Perborate of sodium	(a)	(a)	(a)	(a)	131	414	628
Belgium-Luxemburg E.U.—							
Borates and perborates	(a)	(a)	(a)	94	—	30	3
Borax	(a)	(a)	(a)	298	66	478	1,047
France—							
Borax, borates and boric acid	6	683	1,070	589	1,424	1,427	1,002
Germany (Federal)—							
Borax, borates and boric acid	(a)	(a)	(a)	15	12	326	959
Italy—							
Boric acid, crude	(a)	(a)	585	361	471	117	27
do. refined	(a)	(a)	961	418	803	427	324
Borates	(a)	(a)	199	381	847	145	181
Perborates	(a)	(a)	7	—	151	665	1,030
Netherlands—							
Borax	(a)	49	63	91	20	18	41
Sweden—							
Borax and boric acid	140	10	8	8	—	1	1
Switzerland—							
Borax	—	41	220	21	1	—	338
United States—							
Borates and borax	38,817	47,592	76,550	63,339	} 97,760	127,304	190,576
Boric acid	5,504	6,468	8,540	6,988			
Perborate of sodium	65	(a)	(a)	(a)			
Argentina—							
Borates of calcium and sodium	218	478	(a)	(a)	(a)	(a)	(a)
Tibet (b)—							
Borax	(c) 266	(c) 340	(c) 23	(c) 39	(c) 88	(a)	(a)
Turkey—							
Borates	2,000	3,000	6,265	5,967	8,377	9,991	12,354

(a) Information not available.

(b) Imports into India from Tibet.

(c) Years ended March 31 following that stated.

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

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Borates	10,937	9,431	14,919	15,224	12,846	14,981	18,739
Borax	3,520	4,007	9,646	12,414	10,890	14,028	22,005
Boric acid	1,491	224	2,716	3,133	3,141	4,722	5,804
Anglo-Egyptian Sudan—							
Borax	(a)	(a)	1	32	3	—	(a)
Kenya—							
Borax, refined	(a)	(a)	(a)	(a)	13	11	15
Southern Rhodesia—							
Borax	37	32	93	89	113	86	18
Boric acid	(a)	2	3	—	7	4	4
Tanganyika—							
Borax, refined	(a)	(a)	(a)	15	13	12	8
Uganda—							
Borax, refined	(a)	(a)	(a)	(a)	3	3	2
Union of South Africa—							
Borax	391	638	915	634	590	559	(a)
Boric acid	126	173	366	134	259	162	(a)
Canada—							
Borax	4,778	6,479	8,442	6,161	6,666	7,966	8,132
Boric acid	1,364	1,093	1,394	1,429	1,832	1,616	2,242
Aden—							
Borax	1	6	6	—	—	—	—
Hong Kong (total imports)—							
Borax	(a)	1,104	965	770	2,509	5,530	971
India—							
Borax (b)	1,987	2,168	(c) 7,384	(c) 3,114	(c) 836	(c) 2,284	(c) 7,422
Australia—							
Borates, crude (e)	(a)	42	306	120	33	—	(a)
Boron salts	922	1,227	2,427	1,388	1,456	1,834	3,447
Boric acid (e)	264	470	588	1,228	800	675	(a)
New Zealand—							
Borax	4	29	93	49	50	15	10
Boric acid	1	11	36	38	103	80	147
Irish Republic—							
Borax	151	206	136	300	553	989	553
Boric acid	63	108	112	92	116	136	118
FOREIGN COUNTRIES							
Austria—							
Borax, crude	(a)	(a)	197	544	1,276	1,603	2,686
do. refined	(a)	(a)	1	3	2	1	3
Boric acid	(a)	(a)	1	—	1	—	—
Perborate of sodium	(a)	(a)	(a)	(a)	40	3	80
Belgium-Luxemburg E.U.—							
Borates and perborates	(a)	(a)	(a)	(a)	920	1,194	1,886
Borax	(a)	(a)	(a)	1,100	923	2,462	2,171
Boric acid	(a)	(a)	(a)	190	239	289	252
Bulgaria—							
Borax and boric acid	9	77	(a)	(a)	(a)	(a)	(a)
Czechoslovakia—							
Borax	} (a)	{ 352	227	(d) 1,303	(a)	(a)	(a)
Boric acid			107	315	(d) 188	(a)	(a)	(a)
Denmark—							
Borax	21	152	70	94	109	11	78
Borates and perborates	—	305	478	386	876	864	1,418
Boric acid	22	259	145	20	67	185	84

(a) Information not available.
(b) Includes trade by land as recorded.
(c) Sea-borne trade only.
(d) January to October only.
(e) Years ended June 30 of that stated.

IMPORTS OF BORATES (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Finland (total imports)—							
Borax	39	344	293	302	85	566	415
Boric acid	24	57	16	28	33	60	60
France—							
Borates	3,380	3,878	7,232	—	—	1,368	333
Borax	531	3,279	984	15	2,460	2,705	2,094
Borate of manganese	—	6	—	—	—	—	—
Boric acid	75	840	285	49	109	289	226
Germany (Federal)—							
Borates	(a)	(a)	(a)	890	8,369	22,302	23,013
Borax and boric acid	(a)	(a)	(a)	120	2,135	2,337	11,141
Greece—							
Borax	(a)	148	33	114	162	71	44
Italy—							
Boron mineral	(a)	(a)	(a)	(a)	(a)	(b) 147	1,962
Borates	(a)	(a)	(a)	—	16	1,277	3,322
Netherlands—							
Borax	(a)	2,164	4,519	2,447	5,047	6,461	8,270
Boric acid	(a)	(a)	(a)	237	504	236	554
Perborates	(a)	(a)	(a)	—	128	310	(a)
Norway—							
Borax	284	128	165	243	385	449	(a)
Boric acid	19	83	84	127	49	154	(a)
Portugal—							
Borates	232	438	846	317	574	287	295
Boric acid	43	141	170	40	143	63	90
Spain—							
Borates	84	11	5	59	99	307	238
Boric acid	400	307	83	25	12	6	—
Sweden—							
Borax	828	1,172	2,024	1,164	1,267	2,148	(a)
Boric acid	150	474	412	72	311	472	(a)
Switzerland—							
Borax	1,863	4,243	1,834	1,583	1,144	3,453	6,380
Yugoslavia—							
Borax	(a)	(a)	(a)	(a)	(a)	278	333
Algeria—							
Borax and boric acid	21	54	19	14	19	39	37
Egypt—							
Borax	368	111	21	284	167	208	(a)
Boric acid	121	24	5	44	23	(a)	(a)
Mozambique—							
Borax	4	2	4	4	3	1	2
Boric acid	1	6	5	1	—	1	1
Tunis—							
Borax	18	9	1	16	(a)	(a)	(a)
Boric acid	5	2	28	2	(a)	(a)	(a)
Mexico—							
Borax	1,490	2,095	(a)	(a)	(a)	(a)	(a)
Boric acid	134	256	(a)	(a)	(a)	(a)	(a)
Argentina—							
Borax	51	5	(a)	(a)	(a)	(a)	(a)
Boric acid	1	2	(a)	(a)	(a)	(a)	(a)
Brazil (total imports)—							
Borates	48	58	92	10	91	(a)	(a)
Borax	1,043	1,160	2,125	1,403	1,569	(a)	(a)
Boric acid	217	91	286	114	222	(a)	(a)
Chile—							
Borates	34	28	(a)	(a)	(a)	(a)	(a)
Boric acid	1	3	(a)	(a)	(a)	(a)	(a)
Colombia—							
Borates	146	99	(a)	(a)	(a)	(a)	(a)
Perborate of sodium	—	8	(a)	(a)	551	350	(a)
Boric acid	85	25	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

(b) July 15 to December 31 only.

IMPORTS OF BORATES (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Cuba—							
Borax	(a)	(a)	(a)	94	96	(a)	(a)
Boric acid	(a)	(a)	(a)	763	220	(a)	(a)
Peru—							
Borax	76	142	(a)	123	(a)	(a)	(a)
Boric acid	8	28	(a)	32	(a)	(a)	(a)
Uruguay—							
Borate of calcium ..	(a)	(a)	(a)	273	79	163	(a)
Venezuela—							
Borax	40	8	(a)	23	(a)	(a)	(a)
Boric acid	10	22	32	46	(a)	(a)	(a)
Japan (total imports)—							
Borax	(a)	—	2,917	3,636	(a)	2,154	(a)
Syria and Lebanon—							
Borax	1	—	(a)	(a)	(a)	(a)	(a)
Boric acid	7	—	(a)	(a)	(a)	(a)	(a)
Turkey—							
Borax	253	12	393	143	118	144	173
Boric acid	107	9	1	5	—	—	29

(a) Information not available.

BROMINE
PRODUCTION OF BROMINE
 (lb. avdp.)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Palestine (c)	835,100	108,000	585,000	—	—	—	—
FOREIGN COUNTRIES							
France	(a)	(b)1,475,000	(b)3,014,000	(b)2,200,000	(b)1,940,000	2,337,000	2,293,000
Italy	9,040	(a)	(a)	(a)	(a)	(a)	(a)
United States (c) .. .	79,709,857	42,780,925	78,177,650	76,047,551	88,725,709	98,502,300	129,563,073

(a) Information not available.

(b) Sales.

(c) Includes bromine content of compounds.

EXPORTS OF BROMINE, ETC.

(Domestic Produce)

(lb. avdp.)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Bromine	220	31,400	8,700	6,500	7,700	9,400	15,700
Bromides	101,900	352,500	276,300	179,900	75,700	131,200	699,200
Palestine—							
Bromine	143,300	127,200	397,714	122,797	—	—	—
Bromides	1,032,000	92,000	20,503	5,512	—	—	—
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Bromine	(a)	(a)	(a)	(a)	(a)	6,614	—
Bromides	(a)	(a)	(a)	165,347	2,205	660	—
France—							
Bromine	23,600	380,500	722,900	(a)	(a)	(a)	(a)
Bromides	47,200	177,300	851,000	300,490	542,337	346,346	655,214
Germany (Federal)—							
Bromine	(a)	(a)	(a)	233,470	57,541	459,223	(b) 459,443
Bromides	(a)	(a)	(a)	11,244	127,868	1,030,661	789,255
Italy—							
Bromides	—	—	—	419	4,674	198	61,289
United States—							
Bromine	178,041	2,060,286	1,792,269	1,054,523	925,639	869,816	2,587,421
Bromide of potash ..	551,736						
do. soda	177,768						
Ethyl dibromide .. .	296,952						
Other bromides and bromates	328,934						

(a) Information not available.

(b) January to September only.

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

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Bromine	94,000	181,000	746,800	312,600	244,300	(b) 400	1,120,300
Bromides	1,263,000	214,400	(b) 6,000	(b) 20,700	(b) 12,800	11,100	897,100
Union of South Africa—							
Bromine	288	215	344	454	425	288	(a)
Canada—							
Bromine	3,332	16,786	8,742	20,720	16,594	18,231	26,302
Bromides	29,000	57,100	54,250	41,884	58,055	72,961	45,560
Australia (years ended June 30)—							
Bromine (£ Aust.) ..	} 240,125	{ (£134)	{ (£931)	{ (£450)	{ (£6,548)	{ (£269)	(a)
Bromates and bromides ..								93,556	136,052	225,578	151,762	(d) 312,553	(d) 780,807
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Bromine	(a)	(a)	(a)	(a)	17,637	4,409	41,888
Bromides	(a)	(a)	(a)	(a)	(a)	238,099	282,240
Czechoslovakia—							
Bromine	(a)	—	20,503	(c) 25,133	(a)	(a)	(a)
France—							
Bromides	—	—	220	—	1,102	—	2,646
Ethyl bromide, etc. ..	—	14,771	—	(a)	(a)	(a)	(a)
Italy—							
Bromine	(a)	(a)	—	2	7	271,633	325,182
Bromides	(a)	(a)	117	2,269	24,317	61,555	166,890
Netherlands—							
Bromine	(a)	(a)	(a)	(a)	(a)	4,409	55,116
Norway—							
Bromine	1,091	531	174	1,274	1,060	1,041	(a)
Portugal—							
Bromine	7	408	328	644	1,382	922	974
Bromide of soda	836	1,462	1,863	448	1,861	448	919
Bromide of potash .. .	465	1,127	1,887	1,803	2,738	3,175	2,857
Bromide of ammonium..	278	344	157	375	952	154	476
Spain—							
Bromine	772	3,948	4,969	—	—	—	—
Bromides	1,797	13,135	13,803	22,406	35,111	50,023	6,504
Sweden—							
Bromine	(a)	(a)	(a)	(a)	3,042	6,614	(a)
Algeria—							
Bromine	220	—	—	661	220	—	220
Bromides	31,967	21,605	25,133	441	1,102	1,323	1,764
Cuba—							
Bromine	(a)	(a)	(a)	25,481	190	(a)	(a)
Mexico—							
Bromine	1,177	1,188	(a)	(a)	(a)	(a)	(a)
Bromides of potash and soda	14,707	12,548	9,224	17,952	(a)	(a)	(a)
United States—							
Bromine and compounds	76	236	131	102	87	96	2,624
Argentina—							
Bromine and bromides ..	4,733	23,395	(a)	(a)	(a)	(a)	(a)
Chile—							
Bromine	646	666	(a)	(a)	(a)	(a)	(a)
Bromide of strontium ..	64	15	(a)	(a)	(a)	(a)	(a)
Colombia—							
Bromine	159	176	(a)	(a)	(a)	(a)	(a)
Bromides	4,299	6,942	(a)	(a)	(a)	(a)	(a)
Peru—							
Bromine	150	216	243	489	(a)	(a)	(a)
Iran—							
Bromine	(a)	—	90	26	2	(a)	(a)
Bromides	(a)	5,569	2,545	(a)	(a)	(a)	(a)
Philippine Republic—							
Bromides	670	9,040	(a)	(a)	(a)	(a)	(a)
Turkey—							
Bromine	203	84	730	423	639	225	567
Bromides	2,121	1,217	6108	6,944	13,436	9,061	19,293

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

CADMIUM

PRODUCTION OF CADMIUM

(lb. avdp.)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom	491,100	268,800	234,662	255,226	226,240	262,125	306,502
South West Africa (b) ..	(a)	(a)	(a)	1,140,000	1,662,000	1,344,000	1,434,000
Canada	646,064	802,648	718,534	766,090	846,541	848,406	1,210,759
Australia	542,237	511,280	460,835	646,733	581,280	659,500	535,400
FOREIGN COUNTRIES							
Belgium	(a)	157,000	322,000	661,000	794,000	805,000	805,000
France	15,400	103,600	94,800	103,600	128,000	154,300	187,386
Germany	(a)	(c) 2,200	(c) 2,700	(c) 7,700	(c) 11,000	(a)	(a)
Italy	64,000	55,000	84,000	104,000	161,616	166,151	450,519
Norway	28,700	61,700	110,200	136,700	157,400	173,500	221,035
Poland	108,000	256,000	(d) 157,000	(a)	(a)	(a)	(a)
Spain	(a)	(a)	(a)	11,834	11,279	9,586	8,600
Belgian Congo	40,153	36,533	57,408	39,700	55,100	65,407	52,900
Mexico (e)	2,321,467	1,581,129	1,717,125	1,997,280	1,808,824	1,474,251	1,970,476
United States (f)—							
Metal	7,932,579	6,200,398	8,007,287	7,582,961	8,023,616	8,849,690	8,114,238
Compounds(metal content)	451,050	270,789	500,859	192,696	203,001	340,704	197,099
Peru	20,547	1,874	3,102	3,510	—	3,005	(a)
Japan	(a)	(a)	(g) 15,997	41,610	115,707	(a)	271,000
TOTAL	10,400,000	8,750,000	10,800,000	10,800,000	11,600,000	12,800,000	12,600,000

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

(a) Information not available.

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

(c) Bizonal area only.

(d) January to July only.

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

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

1945	72,473 lb.
1946	355,104 ..
1947	104,764 ..
1948	121,159 ..
1949	384,398 ..
1950	427,052 ..
1951	167,957 ..

(g) Year ended March 31 following that stated.

EXPORTS OF CADMIUM, ETC.

(Domestic Produce)

(lb. avdp.)

Exporting Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Metal	112,100	82,706	4,717	5,141	5,520	(a)	(a)
Compounds	(a)	301,600	93,300	66,100	60,700	77,000	57,200
South West Africa (b)	(a)	(a)	(a)	896,000	1,670,000	1,734,000	1,382,000
Canada	350,744	573,368	622,891	596,098	633,607	676,005	824,850
Australia	507,472	297,920	215,040	194,880	389,760	383,040	297,920
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.	(a)	(a)	(a)	(a)	(a)	1,003	324,079
France	2	220	102	(a)	(a)	(a)	(a)
Italy (incl. scrap)	(a)	(a)	(a)	(a)	(a)	(e) 16,314	31,967
Poland	88,184	220,462	(a)	(a)	(a)	(a)	(a)
Belgian Congo	(c) 25,798	(c) 6,700	(a)	(a)	(a)	70,303	54,793
Mexico (d)	2,320,951	1,581,128	1,660,729	1,997,280	1,732,776	1,518,359	2,695,561
United States—							
Metal	102,199	140,385	303,401	955,701	566,135	352,927	606,233
Alloys	3	75	(a)	1,506	3,000	9,106	5,639
Cadmium salts	10,895	(a)	(a)	(a)	(a)	(a)	(a)
Dross, flue dust, etc.	2,333,720	459,775	18,251	92,847	500	(a)	200,579
Peru	2,247	5,428	3,124	3,510	1,711	3,003	(a)

(a) Information not available.

(b) Cadmium content of concentrates exported for treatment.

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

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

(e) July to December only.

IMPORTS OF CADMIUM, ETC.

(Less Re-exports)

(lb. avdp.)

Importing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Metal	699,636	767,993	781,282	1,043,665	685,511	1,073,454	1,485,056
Compounds	—	—	—	300	1,000	(a)	(a)
Australia—							
Cadmium salts	(a)	(b) 5,310	(b) 1,899	(b) 3,469	(b) 930	857	803
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.	(a)	(a)	(a)	(a)	26,455	39,683	33,069
France—							
Cadmium	120,152	925,941	490,528	(a)	(a)	(a)	(a)
Cadmium salts	—	10,362	17,637	(a)	(a)	(a)	(a)
Sweden	43,286	142,679	127,288	192,693	290,516	235,895	(a)
Yugoslavia	(a)	(a)	(a)	(a)	(a)	4,630	1,323
United States—							
Cadmium	28,724	17,415	20,292	9,809	157,204	724,334	90,065
Flue dust (cadmium content)	2,192,685	1,652,905	2,355,588	1,828,139	1,789,667	1,507,417	1,606,775
Argentina (cadmium and salts)	60	7,348	1	—	(a)	(a)	(a)
Chile (cadmium and salts)	18	77	(a)	(a)	(a)	(a)	(a)
Peru (cadmium salts)	13	1,100	(a)	(a)	(a)	(a)	(a)
Turkey—							
Cadmium	—	15	108	37	86	68	26
Cadmium salts	115	170	659	271	49	128	157

(a) Information not available.

(b) Years ended June 30 of that stated.

CHINA CLAY
PRODUCTION OF CHINA CLAY
(Long tons)

Producing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Great Britain	234,999	406,379	513,792	660,246	634,205	734,648	907,660
Kenya	1,622	1,372	306	764	1,319	1,286	1,908
Southern Rhodesia	9	—	—	—	23,341	13,696	9,569
Tanganyika	292	178	231	134	162	59	156
Union of South Africa	4,429	5,379	4,390	4,752	5,679	8,323	10,526
Canada (sales)	398	733	—	—	—	(a)	(a)
Hong Kong (b)	(a)	(c) 294	(c) 8,430	(d) 3,874	—	—	(a)
India	67,285	74,701	66,561	41,243	42,396	53,583	54,987
Malaya	—	241	1,003	923	1,173	1,435	1,719
Australia (e)	9,380	12,205	9,902	30,021	23,261	(j) 41,415	44,088
FOREIGN COUNTRIES							
Austria (crude)	14,763	46,457	74,590	127,955	159,349	182,814	208,204
Belgium	(k) 1,319	(k) 7,608	(k) 17,578	(k) 18,237	8,962	17,471	(a)
Czechoslovakia (estimated)	(a)	(a)	120,000	150,000	(a)	(a)	(a)
Denmark—							
Crude	6,900	4,400	4,875	3,633	7,683	12,495	(a)
Washed and pressed	6,600	5,200	3,943	6,966	6,485	2,881	(a)
Washed and unpressed	—	800	307	578	—	3,615	(a)
Washed waste	3,300	3,700	6,666	9,085	9,572	8,456	(a)
France	29,779	95,655	98,588	127,092	121,530	96,590	292,569
Germany (Federal)	(a)	(a)	(a)	(f) 135,674	(f) 180,618	288,825	292,569
Greece	—	—	—	2,603	4,972	6,240	(a)
Italy—							
Crude and kaolinic earth	(g) 28,015	(g) 50,676	(g) 116,127	(g) 98,473	(g) 87,784	(a)	(a)
Portugal—							
Crude	14,423	} 19,254	13,101	{ 12,154	12,500	16,602	11,025
Washed	—		374		13,287	7,426	10,364	26,168
Kaolinic sand (h)	237	232	—	318	242	301	243
Spain—							
Crude	25,840	29,881	22,939	35,104	31,202	37,935	42,565
Sweden (washed) (i)	6,516	8,183	12,522	7,955	6,910	2,225	(a)
Algeria	1,210	14	282	1,178	2,903	750	1,450
Egypt	504	215	150	168	199	69	236
Eritrea	(a)	(a)	(a)	2,985	2,850	1,000	(a)
Madagascar	65	47	158	40	82	126	75
Morocco (Spanish)	(a)	(a)	(a)	(a)	(a)	(a)	44
Mozambique	—	18	—	—	—	53	(a)
United States (i)	839,275	1,180,628	1,272,416	1,400,757	1,263,872	1,563,266	1,666,338
Argentina	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Brazil	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Chile	3,545	6,362	8,440	12,769	11,516	8,586	8,798
Peru (i)	614	870	1,479	1,395	767	460	(a)
Japan	(a)	(a)	(a)	6,410	7,178	(a)	(a)
Jordan (exports)	—	—	—	—	—	—	—
Portuguese India (exports)	367	227	51	(a)	(a)	(a)	(a)

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

(a) Information not available.

(b) Including other clays.

(c) Years ended October 31 of that stated.

(d) November, 1947 to December, 1948.

(e) Excluding South Australia.

(f) Bizonal area.

(g) Including bentonite.

(h) Kaolin content.

(i) Sales.

(j) Including Pottery clay produced in Victoria.

(k) Including "Eurite".

EXPORTS OF CHINA CLAY

(Domestic Produce)

(Long tons)

Exporting Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom	115,954	210,896	248,825	335,506	295,233	405,225	471,666
Tanganyika	267	88	164	102	46	18	46
Union of South Africa ..	(a)	(a)	—	10	—	—	485
Malaya (b)	(a)	13	8	3	29	158	258
FOREIGN COUNTRIES							
Austria	(a)	(a)	6,019	9,522	12,135	12,292	14,074
Belgium-Luxemburg E.U.	(a)	(a)	(a)	522	446	1,042	168
Czechoslovakia	(a)	28,451	56,351	(c) 56,808	(a)	(a)	(a)
Denmark	615	89	163	10	—	33	34
France	272	6,531	10,583	8,630	9,030	6,166	8,420
Germany (Federal) ..	(a)	(a)	(a)	983	4,150	10,037	15,382
Italy	(a)	(a)	179	403	—	24	49
Portugal	36	6,417	9,773	4,322	773	2,024	9,938
Spain	22	4	98	47	55	174	205
Sweden	3,033	3,990	3,404	941	8	60	907
Algeria	—	—	193	918	562	536	633
Morocco (Spanish) ..	1,860	(a)	(a)	(a)	(a)	(a)	(a)
United States	11,073	14,177	16,684	17,030	19,499	25,233	32,531
Argentina	97	5	(a)	(a)	(a)	(a)	(a)
Brazil	63	3	—	—	—	(a)	(a)
Chile	628	317	181	—	(a)	(a)	(a)
Jordan	—	—	—	—	(a)	(a)	(a)
Portuguese India	367	227	51	87	—	(a)	(a)

(a) Information not available.

(b) Including re-exports.

(c) January to October only.

IMPORTS OF CHINA CLAY

(Less Re-exports)

(Long tons)

Importing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom (b) ..	—	18	157	396	276	(a)	(a)
Union of South Africa (c) ..	148	365	592	584	613	537	(a)
Canada (f)	56,839	54,609	71,422	80,024	75,447	83,062	96,097
Newfoundland (e)	(a)	—	958	1,027	(e)	(e)	(e)
India	333	307	890	1,510	3,314	2,664	6,470
Malaya (total imports) ..	(a)	28	12	106	30	5	3
Australia	(a)	—	(d) 2	(d) 487	721	2,108	644
FOREIGN COUNTRIES							
Austria	(a)	(a)	524	1,281	1,134	858	1,725
Belgium-Luxemburg E.U.	(a)	(a)	(a)	40,887	34,763	36,386	48,376
Czechoslovakia	(a)	—	30	—	(a)	(a)	(a)
Denmark—							
Crude	—	1,006	2,594	736	968	} 18,478	20,876
Washed	384	8,594	13,538	11,563	14,883		
Finland (total imports) ..	11,665	19,435	24,883	35,764	15,486	18,405	29,720
France	14	271	9,641	14,645	10,873	32,125	55,771
Germany (Federal)	(a)	(a)	(a)	32,438	44,725	61,002	70,964
Italy	(a)	(a)	14,578	18,037	25,878	33,266	41,010
Netherlands (g)	(a)	(a)	(a)	42,284	43,511	54,092	53,925
Norway	2,940	10,791	15,504	19,500	17,628	19,410	25,747
Poland	(a)	(a)	19,073	(a)	(a)	(a)	(a)
Portugal	104	101	107	82	14	48	28
Spain	294	511	51	119	242	184	1,082
Sweden	16,341	32,084	33,841	44,291	35,310	41,610	(a)
Yugoslavia	(a)	(a)	(a)	(a)	(a)	741	305
Algeria	—	94	88	360	1,409	1,545	3,149
United States	51,323	79,672	73,757	89,223	68,952	109,798	98,638
Argentina	2,455	4,878	(a)	(a)	(a)	(a)	(a)
Chile	92	24	(a)	(a)	(a)	(a)	(a)
Colombia	55	21	(a)	(a)	(a)	(a)	(a)
Peru	29	71	(a)	(a)	(a)	125	(a)
Uruguay	(a)	633	1,741	346	1,006	1,707	(a)
Iran	(a)	—	1,935	(a)	(a)	(a)	(a)
Japan	(a)	(a)	94	(a)	(a)	(a)	(a)
Turkey	29	133	317	77	62	4	88

(a) Information not available.

(b) Including Ball clay.

(c) Including Cornish or china stone.

(d) Years ended June 30 of that stated.

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

(f) Including Newfoundland from April 1, 1949.

(g) Including Pipe clay.

CHROME ORE AND CHROMIUM

PRODUCTION OF CHROME ORE

(Long tons)

Producing Country	Estimated Cr ₂ O ₃ content*													
	1945	1946	1947	1948	1949	1950	1951	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES														
Sierra Leone ..	569	10,138	16,504	7,761	21,752	7,399	16,166	240	4,300	7,000	3,300	9,100	3,100	6,800
Southern Rhodesia ..	183,377	149,043	152,699	227,061	239,662	286,922	295,527	88,000	72,000	73,000	109,000	115,000	139,000	142,000
Union of South Africa ..	97,526	208,902	367,204	406,266	397,967	488,487	536,399	45,100	95,405	166,563	183,433	179,000	219,000	241,000
Canada ..	5,138	2,777	1,930	1,531	322	—	—	2,400	1,300	900	700	140	—	—
Cyprus (b) ..	732	2,740	4,840	10,847	13,862	16,371	12,349	352	1,260	2,320	5,093	6,511	7,792	5,938
India ..	—	—	{ 34,717	22,555	19,416	16,729	15,802	—	—	{ 17,000	11,000	9,700	8,000	7,600
Pakistan ..	—	—	{ 20,523	17,427	15,673	18,125	17,498	—	—	{ 9,850	8,360	7,500	8,700	8,400
Australia ..	282	—	—	555	632	891	1,360	110	—	—	(a)	(a)	(a)	(a)
TOTAL ..	318,800	418,300	598,400	694,000	709,300	834,900	895,100							
FOREIGN COUNTRIES														
Greece ..	2,375	8,919	2,598	1,500	3,666	12,627	24,933	(a)	3,400	900	(a)	(a)	(a)	9,000
Portugal ..	1,643	602	210	173	87	44	32	655	241	84	69	34	18	13
U.S.S.R. (estimated) ..	(a)	(a)	(a)	(a)	(a)	450,000	550,000	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Yugoslavia ..	(a)	92,000	74,600	59,600	107,400	112,924	98,065	(a)	30,000	24,000	29,000	41,000	(a)	(a)
Egypt ..	148	—	262	188	49	—	—	70	—	110	80	20	—	—
Cuba ..	188,646	161,586	108,619	114,782	95,830	(d)64,780	77,816	(a)	300	300	230	(a)	(a)	(a)
Guatemala ..	435	600	615	467	300	142	1,120	208	1,600	340	1,600	(a)	(a)	(a)
United States ..	12,476	3,667	846	3,231	387	361	6,300	5,700	(a)	(a)	(a)	(a)	(a)	(a)
Argentina ..	2,953	(a)	(a)	1,600	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Brazil (exports) ..	1,466	171	—	1,600	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Japan ..	42,827	4,358	2,825	9,194	26,682	31,448	39,769	(a)	1,900	1,300	3,850	9,700	11,600	13,900
Philippine Republic ..	(c) 3,474	25,893	192,072	282,796	242,847	246,555	312,667	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Turkey (d) ..	146,041	101,648	154,459	281,812	445,382	415,030	588,343	70,000	49,000	74,000	135,000	214,000	195,000	282,000
New Caledonia ..	58,883	24,556	49,732	73,834	87,585	83,462	87,390	31,000	13,000	25,800	38,400	45,600	43,400	45,400
TOTAL ..	800,000	750,000	1,000,000	1,250,000	1,370,000	1,420,000	1,790,000							
WORLD'S TOTAL	1,100,000	1,150,000	1,598,000	1,943,000	2,080,000	2,255,000	2,685,000							

* Only approximate estimates can be given owing to the wide variation in the chromium content of the ore produced in several of the countries concerned.
 (a) Information not available.
 (b) Figures relate to saleable production.
 (c) Imports into Japan from Philippine Republic.
 (d) Revised.

EXPORTS OF CHROME ORE, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Chromium metal	86	50	8	83	128	161	86
Ferro-chrome	42	85	57	21	29	(a)	(a)
Chromates of potash ..	238	460	24	424	697	653	200
Chromates of soda ..	1,403	1,678	203	1,232	1,599	2,057	1,964
Sierra Leone—							
Ore	11,595	31,301	22,687	8,411	17,656	13,909	11,930
Southern Rhodesia—							
Ore	204,443	149,557	160,372	222,454	202,468	237,976	300,593
Union of South Africa—							
Ore	171,279	238,668	299,016	287,362	303,890	483,923	507,145
Canada—							
Ferro-chrome	(a)	5,604	24,762	20,103	16,204	29,389	39,046
Cyprus—							
Ore and concentrates ..	1,054	1,140	5,200	6,790	14,640	18,150	12,453
India (b)—							
Ore	10,528	16,448	37,615	9,250	6,382	3,864	8,838
Pakistan—							
Ore	(a)	(a)	(a)	(a)	(a)	12,154	19,351
Australia—							
Ore	—	5	—	2	—	—	—
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Chromates of potash and soda	(a)	(a)	(a)	215	144	391	712
France—							
Ferro-chrome	1	39	37	(a)	(a)	(a)	(a)
Chromates, chrome alum, etc.	2	119	310	292	1,797	754	808
Germany (Federal)—							
Chromates of potash and soda, and oxides of chromium	(a)	(a)	(a)	295	1,905	5,030	3,208
Greece—							
Ore	(a)	(a)	(a)	984	—	9,389	23,414
Netherlands—							
Chromium compounds..	(a)	—	—	12	16	32	35
Norway—							
Ferro-chrome	623	4,492	11,487	15,464	14,559	16,152	21,624
Portugal—							
Ore	1,050	918	801	49	786	689	—
Sweden—							
Ore	—	202	20	—	—	—	15
Ferro-chrome	177	1,952	3,650	271	1,079	4,624	5,150
Chromates and chrome alum	832	1,501	2,533	2,478	1,168	1,615	1,736
Switzerland—							
Ferro-chrome, including ferro-silicon	2	77	540	1,728	1,569	1,289	3,724
U.S.S.R.—							
Ore (c)	162,546	99,562	241,827	357,906	102,758	71,959	(a)

(a) Information not available.

(b) Including chrome ore mined in British India, but exported via the Portuguese port of Mormugao as follows:—
1945—Nil, 1946—Nil, 1947—8,849 tons, 1948—4,773 tons, 1949—610 tons, 1950—1,100 tons, 1951—Nil.

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

EXPORTS OF CHROME ORE, ETC. (Cont.)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Yugoslavia—							
Ore	(a)	(a)	(a)	(a)	(a)	39,677	52,113
Cuba—							
Ore	270,010	173,065	100,135	160,446	72,383	115,505	68,511
United States—							
Ore	11,041	1,927	3,067	2,584	2,127	1,825	1,813
Ferro-chrome	1,313	2,241	2,751	6,030	1,964	309	214
Chromates of potash	665	1,745	1,000	1,147	1,270	372	1,611
Chromates of soda	3,325	8,491	5,247	5,405	5,100	1,828	7,862
Brazil—							
Ore	1,466	171	—	1,600	3	(a)	(a)
Philippine Republic—							
Ore	(b) 3,474	(a)	(b) 189,500	238,158	231,441	(a)	361,568
Turkey—							
Ore	61,692	35,756	180,874	304,716	347,667	348,018	496,639
New Caledonia—							
Ore	50,147	63,619	43,062	69,066	101,287	72,799	91,670

(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	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Ore	42,887	65,753	87,751	114,415	131,710	105,879	131,802
Chromium metal	—	—	53	59	5	—	—
Ferro-chrome	2,999	3,683	20,815	15,773	10,054	12,117	22,279
Chromates of soda ..	—	1	74	108	—	1	88
Canada—							
Ore	54,188	14,139	87,788	61,771	59,148	106,540	131,249
Bichromate of potash ..	94	117	142	77	143	137	211
Bichromate of soda ..	1,843	2,146	2,035	2,048	1,400	2,004	3,138
India (total imports)—							
Bichromate of potash ..	7	—	50	3	—	—	2
Bichromate of soda ..	—	—	—	132	2	—	—
Palestine—							
Ore	809	—	(a)	(a)	(a)	(a)	(a)
Australia—							
Ore	2,391	—	1,360	2,606	6,848	3,091	3,654
Bichromate of potash (.) ..	46	130	10	5	81	53	(a)
Bichromate of soda (e) ..	961	302	48	2	256	312	(a)
FOREIGN COUNTRIES							
Austria—							
Ore	(a)	(a)	(a)	(a)	(a)	(a)	48,183
Ferro-chrome	(a)	(a)	(a)	2,111	3,271	4,686	3,249
Chromates	(a)	(a)	33	225	325	662	393
Belgium-Luxemburg E.U.—							
Ore	(a)	(a)	(a)	(a)	1,426	1,036	3,421
Chromates of potash and soda	(a)	(a)	(a)	250	610	784	813
Bulgaria—							
Chromates of potash ..	—	19	(a)	(a)	(a)	(a)	(a)
Czechoslovakia—							
Ore	(a)	3,357	2,935	(b) 2,043	(a)	(a)	(a)
Chromates of potash and soda			33	(b) 711	(a)	(a)	(a)
Denmark—							
Chromates of potash and soda	114	375	105	321	286	233	437
Finland (total imports)—							
Ferro-chrome	59	157	132	206	410	410	607
Chromates of potash and soda	2	150	150	68	414	224	608
Chrome sulphate ..	—	155	156	381	271	166	300
France—							
Ore	8,496	45,978	42,365	(c) 37,629	(c) 35,911	(c) 14,171	(c) 42,919
Ferro-chrome	507	134	832	(a)	(a)	(a)	(a)
Chromates of potash and soda	39	108	65	540	362	264	408
Other chromates ..	10	45	951	1,149	620	423	2,018
Germany (Federal)—							
Ore	(a)	(a)	(a)	7,308	49,137	72,788	104,944
Italy—							
Ore	(a)	2,950	2,923	(a)	(a)	(d) 6,180	17,028
Ferro-chrome	—	116	81	524	1,534	1,924	907

(a) Information not available.

(b) January to October only.

(c) Imports from Turkey and New Caledonia only.

(d) July 15 to December 31 only

(e) Years ended June 30 of that stated.

IMPORTS OF CHROME ORE, ETC. (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Netherlands—							
Chromium compounds	(a)	900	1,702	1,328	1,246	1,375	2,164
Norway—							
Ore	—	9,571	51,088	50,524	39,242	51,634	49,130
Portugal—							
Chromates of potash and soda	48	348	79	3	5	1	1
Chrome alum	13	43	32	—	3	1	—
Spain—							
Chromates	112	329	59	91	28	228	2
Sweden—							
Ore	12,947	45,357	56,258	26,273	30,917	54,319	40,843
Ferro-chrome	16	725	1,116	2,140	2,255	2,035	(a)
Chrome alum	—	6	19	10	—	1	(a)
Chromates	123	532	315	606	598	854	(a)
Switzerland—							
Ferro-chrome and ferro-silicon	127	2,260	2,769	4,434	1,321	1,280	8,037
Egypt—							
Chromates of potash and soda	193	632	600	572	293	(a)	(a)
Mexico—							
Chromates	610	1,076	(a)	(a)	(a)	(a)	(a)
United States—							
Ore	826,684	630,601	987,660	1,376,853	1,074,920	1,161,087	1,275,911
(Cr ₂ O ₃ content) ..	363,568	298,994	433,921	607,765	476,420	517,305	545,300
Ferro-chrome (Cr content)	3,860	886	5,759	4,209	3,515	11,375	14,671
Metal and alloys ..	—	—	—	—	—	53	83
Argentina—							
Bichromate of potash ..	2	88	(a)	(a)	(a)	(a)	(a)
Bichromate of soda ..	881	652	(a)	(a)	(a)	(a)	(a)
Chromate of lead	120	164	(a)	(a)	(a)	(a)	(a)
Chrome alum	64	53	(a)	(a)	(a)	(a)	(a)
Brazil—							
Chromates of potash and soda	300	1,477	388	500	1,571	(a)	(a)
Other chromium salts ..	46	125	149	50	109	(a)	(a)
Chile—							
Ferro-chrome	11	22	22	—	(a)	(a)	(a)
Bichromate of potash ..	10	86	(a)	(a)	(a)	(a)	(a)
Bichromate of soda ..	154	518	(a)	(a)	(a)	(a)	(a)
Colombia—							
Chromates	110	119	(a)	(a)	(a)	(a)	(a)
Peru—							
Chromium compounds ..	115	210	(a)	(a)	(a)	(a)	(a)
Japan—							
Ore	3,474	(a)	(a)	(a)	(a)	6,986	27,912
Turkey—							
Chromates	43	—	80	43	89	89	59
Chrome alum	67	—	—	25	14	26	53

(a) Information not available.

COAL, COKE AND BY-PRODUCTS

PRODUCTION OF COAL (Including Brown Coal and Lignite)

(Long tons)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Great Britain—							
Mined—							
Anthracite	3,162,645	3,525,550	3,599,250	3,794,100	3,724,200	3,654,800	3,731,500
Bituminous	171,495,258	177,717,403	183,603,569	193,851,600	198,964,500	200,484,500	208,144,400
Opencast	8,125,600	8,838,900	10,200,900	(b)11,782,200	12,477,400	12,185,400	11,009,800
Northern Ireland—							
Bituminous	680	640	1,300	1,420	650	570	1,296
Lignite	2,546	174	386	70	—	—	—
Nigeria	512,552	607,652	579,354	607,757	550,517	583,238	550,281
Southern Rhodesia ..	1,642,485	1,587,243	1,484,163	1,668,454	1,887,513	2,094,501	2,263,794
Union of South Africa ..	23,182,397	23,229,292	23,127,179	23,645,052	25,093,379	26,055,179	26,211,876
Canada—							
Bituminous	10,512,646	11,474,433	9,877,375	12,206,893	12,613,095	12,155,639	11,931,686
Sub-bituminous	2,856,745	3,068,654	2,888,446	2,847,140	2,788,297	2,965,690	2,678,587
Lignite	1,368,746	1,360,258	1,402,810	1,418,904	1,670,078	1,967,163	1,985,105
India	29,167,152	29,709,346	30,144,505	30,124,175	31,695,375	32,307,481	34,430,522
Pakistan			357,744	240,077	331,964	435,149	504,703
Malaya	226,702	224,674	226,301	375,460	386,898	415,777	382,539
Australia—							
Bituminous (c)	12,812,368	13,776,383	14,663,157	14,543,567	13,762,804	16,287,040	15,876,613
Sub-bituminous (d) ..	41,452	135,460	193,351	239,464	344,638	261,337	1,731,805
Lignite	5,445,108	5,707,039	6,140,173	6,692,413	7,375,559	7,327,119	7,836,056
New Zealand—							
Anthracite	2,531	2,272	1,606	1,705	1,885	1,959	672
Bituminous	962,215	955,998	934,365	950,901	934,802	919,029	677,258
Sub-bituminous	1,623,336	1,569,020	1,504,942	1,508,045	1,577,908	1,468,397	1,470,465
Lignite	245,494	266,580	310,810	315,195	298,680	280,066	287,110
TOTAL	273,589,000	283,953,000	291,657,000	306,774,000	316,465,000	321,850,000	331,706,000
Irish Republic—							
Anthracite	53,121	56,943	48,723	39,197	28,465	47,522	} 111,200
do. dust	68,397	63,779	71,266	48,033	19,213	49,250	
Semi-bituminous ..	90,962	90,553	97,885	81,956	78,925	72,405	

(a) Information not available.

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

1947—Anthracite 234,670, Bituminous 9,964,000 and Lignite 62,205.

1948— " 222,900 " 11,559,300 " Nil.

1949— " 605,100 " 11,871,300 " Nil.

1950— " 905,200 " 11,280,200 " Nil.

1951— " 616,200 " 10,393,600 " Nil.

(c) Including semi-anthracite.

(d) South Australia only for the years 1945 to 1950.

PRODUCTION OF COAL (Cont.)

Producing Country	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES							
Albania—							
Lignite (estimated) ..	16,000	16,000	16,000	16,000	16,000	16,000	16,000
Austria—							
Bituminous	70,485	106,625	174,962	177,674	180,166	180,053	192,581
Brown coal	2,033,352	2,364,186	2,794,472	3,285,184	3,755,635	4,239,706	4,909,890
Belgium (d)	15,582,969	22,491,193	24,050,471	26,269,581	27,414,085	26,889,325	29,196,116
Bulgaria—							
Anthracite (estimated) ..	27,000	27,000	27,000	(b)	} 4,647,746	5,621,449	(a)
Bituminous (estimated) ..	200,000	200,000	200,000	295,487			
Lignite (d)	3,275,000	3,239,000	3,750,000	(c) 3,514,141			
Czechoslovakia—							
Bituminous	11,530,951	13,913,000	16,047,254	17,465,474	16,879,000	18,159,000	17,600,000
Brown coal	15,113,522	19,204,000	22,030,861	23,217,014	25,983,000	27,072,000	30,500,000
Denmark—							
Lignite	2,283,000	2,275,000	2,758,000	2,362,000	1,575,000	758,000	(a)
France—							
Anthracite (e)	463,000	580,000	603,960	515,410	} 50,390,575	50,039,932	52,135,000
Bituminous	32,323,983	45,860,000	43,898,169	42,094,665			
Lignite	1,676,702	2,070,809	2,060,164	1,812,655			
Germany—							
Bituminous	40,557,000	56,891,000	74,016,000	f 87,020,000	f 103,155,000	f 110,542,800	f 118,775,000
Brown coal	117,880,000	157,351,000	158,060,000	f 63,949,000	f 71,085,000	f 74,643,000	f 81,808,000
Greece—							
Lignite	70,000	122,016	130,900	124,600	177,000	(a)	(a)
Hungary—							
Bituminous	697,000	709,000	1,043,000	1,206,000	g 1,360,000	(a)	(a)
Brown coal and lignite ..	3,520,000	5,539,000	7,627,000	9,229,000	g 10,271,000	(a)	(a)
Italy—							
Anthracite	60,289	103,331	114,299	85,156	74,073	66,996	80,890
Bituminous	685,007	1,056,048	1,222,253	871,923	1,012,612	947,012	1,067,283
Brown coal	755,118	1,496,918	1,821,550	892,971	819,094	767,930	840,035
Netherlands—							
Bituminous	5,016,074	8,182,522	9,940,824	10,858,086	11,520,099	12,053,900	12,228,000
Brown coal	125,402	493,266	466,463	274,554	195,278	191,011	245,122
Poland—							
Bituminous	} 26,933,847	46,541,155	58,196,455	69,152,000	73,306,000	76,769,000	g 80,697,000
Brown coal		1,431,712	4,690,700	4,960,000	4,554,000	4,764,000	(a)
Portugal—							
Anthracite	429,229	373,532	364,301	380,661	436,458	412,208	410,225
Brown coal	160,278	138,649	106,020	101,622	113,006	92,107	83,799
Roumania—							
Anthracite	16,545	14,757	23,404	} 2,589,000	} 188,000	(a)	(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				
Saar	(h)	7,760,000	10,318,000	12,368,800	14,038,000	14,853,000	16,027,000
Spain—							
Anthracite	1,505,375	1,434,509	1,389,062	1,439,634	1,416,487	1,485,424	1,588,416
Bituminous	9,057,198	9,154,183	9,049,522	9,019,408	9,244,921	9,296,577	9,541,212
Lignite	1,329,440	1,315,003	1,243,050	1,378,062	1,311,135	1,340,635	1,461,259
Spitzbergen and Bear Island	5,912	94,911	331,184	507,979	571,000	541,862	707,433
Sweden	605,618	480,467	409,218	368,532	311,612	304,411	274,364
Switzerland—							
Bituminous	99,940	73,367	26,477	—	—	—	—
Brown coal	205,984	101,633	12,000	—	—	—	—

(a) Information not available.

(b) Included with Lignite.

(c) Including Anthracite.

(d) Revised.

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

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

(g) Estimated.

(h) Included with Germany.

PRODUCTION OF COAL (Cont.)

Producing Country	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
U.S.S.R. (b)	140,000,000	159,000,000	179,100,000	203,700,000	230,000,000	256,000,000	280,000,000
Yugoslavia—							
Bituminous	(a)	745,000	1,045,000	957,000	1,268,000	1,136,000	974,000
Lignite	(a)	5,951,000	8,099,000	9,597,000	10,661,000	10,527,000	10,601,000
Algeria—							
Bituminous	159,781	211,496	201,369	219,070	261,000	253,700	242,700
Belgian Congo	49,553	100,292	100,462	115,638	149,964	157,441	214,459
Madagascar	3,140	371	—	—	16	1,870	5,380
Morocco (French)—							
Anthracite	175,800	218,248	264,300	285,700	336,025	362,058	387,730
Mozambique	11,684	16,038	15,917	8,938	12,899	55,087	87,554
Tunis—							
Lignite	67,512	93,465	75,166	69,283	46,500	40,500	8,040
Greenland	7,000	8,000	7,000	8,000	7,000	8,000	7,000
Mexico	900,000	967,300	1,022,800	1,040,528	1,012,000	927,000	1,087,000
United States—							
Anthracite	49,048,133	54,023,994	51,062,508	51,017,811	38,126,539	39,354,199	38,098,212
Bituminous	513,347,336	474,334,329	560,491,132	532,528,877	388,192,773	457,983,113	473,547,882
Lignite	2,382,420	2,381,803	2,565,762	2,755,255	2,760,830	3,008,898	2,938,486
Argentina	3,200	3,100	14,000	17,200	17,600	25,700	38,900
Brazil	2,040,142	1,866,764	1,967,326	1,993,007	2,100,147	1,951,743	1,918,759
Chile—							
Bituminous	2,045,702	1,923,201	2,046,279	2,198,774	2,043,892	2,146,478	2,176,371
Colombia	526,000	542,000	497,000	506,000	492,000	(a)	(a)
Peru—							
Anthracite	36,266	80,793	80,749	41,620	27,552	26,357	(a)
Bituminous	161,818	145,388	131,182	140,797	139,454	166,210	(a)
Venezuela (f)	16,782	15,374	14,831	20,291	23,403	24,985	27,100
Afghanistan	(a)	(a)	(a)	(a)	(a)	(a)	13,306
China—							
"Free"	5,155,000	18,118,000	(a)	8,600,000	16,000,000	36,000,000	42,600,000
North and Central	(a)	(a)	(a)				
Formosa	(c) 782,000	1,041,000	1,269,000	(b) 1,500,000	1,623,000	1,412,000	b 1,542,000
French Indo-China—							
Anthracite	318,000	257,600	243,531	349,413	370,274	486,607	632,100
Bituminous, etc.	13,000	—	—	—	—	—	—
Indonesia	(d) 100,000	75,354	219,389	531,241	651,990	791,730	848,149
Iran (b)	(a)	150,000	150,000	150,000	200,000	250,000	250,000
Japan—							
Anthracite	(c) 484,000	437,000	638,000	839,000	768,000	674,000	933,000
Bituminous	c 2,531,000	19,617,000	26,172,000	32,491,000	36,695,000	37,179,000	41,703,000
Lignite	c 1,618,000	2,315,000	2,776,000	2,512,000	2,055,000	1,264,000	1,382,000
Korea (c)	(a)	272,755	459,896	769,836	1,049,000	555,000	600,000
Lebanon—							
Lignite	—	—	—	354	(a)	(a)	(a)
Philippine Republic	(a)	46,644	72,568	86,361	121,388	156,314	148,311
Turkey—							
Bituminous	3,660,960	3,770,038	3,882,811	3,959,283	4,116,645	4,291,728	4,654,892
Lignite	713,766	594,000	826,740	994,140	1,251,848	1,184,501	1,234,997
TOTAL	1,050,000,000	1,160,000,000	1,330,000,000	1,360,000,000	1,290,000,000	1,440,000,000	1,540,000,000
WORLD'S TOTAL	1,324,000,000	1,445,000,000	1,622,000,000	1,668,000,000	1,610,000,000	1,762,000,000	1,872,000,000

(a) Information not available.

(b) Estimated.

(c) Years ended March 31 following that stated.

(d) Average annual production during Japanese occupation

(e) Southern Korea only.

(f) Revised to include clandestine production.

PRODUCTION OF COKE

(Long tons)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Great Britain—							
Gas-works—coke (b) ..	9,407,600	9,994,700	9,889,700	10,875,800	11,318,900	11,768,000	12,361,000
breeze (b) ..	2,174,100	2,361,900	2,373,900	2,621,200	2,546,700	2,705,000	2,665,000
Coke-ovens—coke ..	13,985,727	13,986,600	13,814,947	15,422,800	15,491,000	15,381,400	15,996,000
breeze ..	741,738	732,000	782,001	858,000	930,400	1,017,000	1,068,000
Northern Ireland—							
Gas-works (estimated) ..	120,000	120,000	120,000	120,000	120,000	120,000	120,000
Southern Rhodesia ..	83,760	84,465	62,684	78,109	79,969	94,357	92,786
Union of South Africa—							
Coke-ovens	680,107	692,249	655,011	789,561	940,687	1,019,660	1,233,845
Gas-works	(a)	29,062	(a)	(a)	(c)	(a)	(a)
Canada—							
Gas-works—coke ..	241,980	231,398	233,107	236,029	235,254	216,497	} 225,138
breeze	32,760	5,137	2,545	2,326	1,783	1,996	
Coke-ovens—coke ..	2,975,516	2,551,429	2,654,487	3,067,502	2,989,983	3,103,922	} 3,261,543
breeze	242,887	214,812	247,496	217,157	223,518	217,474	
India—							
Gas-works	(a)	(a)	75,082	78,337	80,004	75,440	74,606
Hard	1,634,005	1,674,997	1,868,838	1,750,954	2,006,019	2,215,089	2,201,641
Soft	547,292	627,622	671,033	850,517	1,025,122	1,268,870	1,250,165
Australia (d)—							
Gas-works—coke ..	1,032,950	1,027,157	1,072,906	1,170,545	1,181,516	988,336	1,041,715
breeze	50,480	51,845	55,546	60,556	69,160	75,606	118,231
Coke-ovens—coke ..	1,223,892	986,005	1,197,636	1,384,238	1,150,039	1,164,401	1,586,461
breeze	102,402	78,466	93,403	111,062	83,439	87,394	108,658
New Zealand (e)—							
Gas-works	93,412	88,554	91,605	94,355	93,419	95,523	(a)
Irish Republic—							
Gas-works (c)	95,415	121,019	79,978	77,867	86,392	83,975	89,902
FOREIGN COUNTRIES							
Austria—							
Gas-works	(a)	299,821	283,121	309,700	555,519	547,520	449,830
Coke-ovens	(a)	112,601	338,962	581,700	844,963	971,705	1,068,540
Belgium—							
Gas-works	(a)	(a)	(a)	39,400	33,400	27,959	22,569
Coke-ovens (j)	2,027,623	3,839,350	4,717,970	5,540,373	4,955,270	4,525,440	6,009,783
Bulgaria—							
Coke-ovens	(a)	(a)	(a)	8,341	(a)	(a)	(a)
Czechoslovakia—							
Gas-works	286,172	371,312	} 4,074,614	(f) 4,542,100	{ (a)	(a)	(a)
Coke-ovens	1,870,540	2,215,115					
Denmark (gas-works) (g) ..	336,113	481,538	505,734	553,200	574,100	(h) 363,300	(k) 401,700
Finland (gas-works) ..	64,532	56,650	55,914	62,961	66,684	66,622	74,806
France—							
Gas-works	563,658	1,180,393	1,652,089	2,071,800	2,089,000	2,031,000	2,787,000
Coke-ovens	2,687,361	5,069,425	5,907,800	6,148,199	6,744,000	6,922,000	8,232,000
Semi-coke	140,872	165,330	182,672	198,787	236,000	248,000	(a)
Germany (Federal)—							
Gas-works	(a)	1,467,600	1,651,600	2,211,200	(i) 2,661,800	3,080,000	3,520,000
Coke-ovens—Hard coke	(h) 5,201,000	(i) 9,556,000	(j) 14,886,000	(j) 19,487,000	(i) 24,743,000	26,901,700	33,079,000
do. Brown-coal coke	(h) 210,000	(h) 292,000	(h) 356,000	(h) 444,000	(i) 594,400	654,300	680,000

(a) Information not available. (b) Excluding coke used for heating retorts.
(c) Including coke-breeze.
(d) Years ended June 30 of that stated.
(e) Sales for years ended March 31 of the year following that stated
(f) January to October only
(g) Years ended March 31 of the year following that stated.
(h) British and American Zones. (i) Western Zones. (j) Revised. (k) Calendar year.

PRODUCTION OF COKE (Cont.)

Producing Country	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Greece (gas-works) ..	(a)	(a)	(a)	11,300	15,300	(a)	30,818
Italy—							
Gas-works	(a)	(a)	773,530	971,515	966,708	1,049,796	1,066,281
Coke-ovens	(a)	38,504	945,523	1,287,972	1,487,304	1,486,469	2,138,876
Netherlands—							
Gas-works	(c) 98,500	488,594	938,000	988,000	998,600	980,000	943,000
Coke-ovens	842,027	1,287,110	1,746,000	2,205,000	2,435,300	2,759,600	2,926,000
Norway (gas-works) ..	17,124	51,024	54,982	58,540	71,198	60,031	60,154
Poland—							
Gas-works	(a)	497,752	693,351	5,011,000	5,662,000	5,952,000	6,250,000
Coke-ovens	(a)	3,019,555	3,703,348				
Semi-coke	(a)	8,640	55,037				
Portugal (gas-works)—							
Coke	18,859	18,291	22,529	23,432	20,096	24,498	(a)
Breeze	3,396	4,532	4,958	6,997	6,775	(a)	(a)
Coke dust	2,660	3,476	5,909	7,165	4,191	(a)	(a)
Saar—							
Gas-works	(a)	(a)	(a)	2,200	2,000	600	—
Coke-ovens	380,000	804,000	1,925,000	2,700,785	3,275,026	3,176,023	3,791,000
Semi-coke	—	34,769	44,223	47,343	37,413	50,321	85,323
Spain—							
Gas-works	136,000	181,600	151,606	186,900	211,067	200,000	200,000
Coke-ovens	758,200	746,500	802,761	834,976	952,217	933,000	980,000
Sweden (including breeze)	426,286	403,564	631,296	685,197	658,840	(a)	(a)
Switzerland—							
Gas-works	129,007	177,321	331,648	400,600	393,700	406,500	459,000
Algeria (gas-works) ..	76,404	77,437	81,586	91,546	41,795	75,242	94,815
Canary Islands (gas-works)	3,825	3,500	2,907	2,029	1,158	1,343	364
Tunis (gas-works) ..	13,587	10,573	10,028	10,680	18,448	12,732	12,633
United States—							
Coke-ovens—							
Coke	52,169,711	45,052,916	56,406,616	57,884,486	50,512,936	56,314,174	64,274,261 4,576,637
Breeze and screenings	3,819,036	3,498,954	4,629,682	4,825,671	4,061,587	4,299,431	
Coke-ovens (gas-works)	(d) —	(d) —	(d) —	(d) —	(d) —	(d) —	
Coke	3,271,618	3,098,376	3,199,231	3,466,047	3,257,137	3,409,592	
Breeze and screenings	313,587	279,843	257,919	361,827	339,383	319,103	
Beehive—							
Coke	4,655,262	4,078,929	5,970,804	5,872,831	3,049,061	5,203,054	6,556,723
Breeze and screenings	82,405	67,871	114,310	96,667	53,120	80,993	78,262
Gas-works—							
Coke	767,184	672,621	593,371	472,655	338,769	155,734	113,070
Breeze and screenings	88,474	86,446	69,039	69,479	52,139	22,192	17,326
Brazil	(a)	(a)	(a)	261,556	267,419	282,069	(a)
Chile	98,631	(a)	107,022	123,506	122,468	119,552	114,462
Colombia (b)	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Uruguay (gas-works)—							
Coke	22,791	22,887	24,808	26,271	27,728	32,116	33,408
Breeze	3,049	2,622	3,640	3,483	3,253	4,139	4,926
Japan—							
Coke-ovens	1,642,000	354,000	461,000	984,000	1,559,000	2,055,000	2,740,000
Beehive, etc.	720,000	555,000	685,000	921,000	980,000	614,000	1,063,000
Gas-works	945,000	449,000	673,000	1,064,000	1,287,000	1,311,000	1,665,000
Turkey—							
Gas-works	43,924	47,559	52,622	55,137	52,857	54,932	(a)
Coke-ovens	223,700	258,012	261,244	266,210	288,680	299,052	302,990
Semi-coke	54,995	42,410	59,515	65,300	70,221	(a)	(a)
Coke dust	5,291	2,088	2,707	888	(a)	(a)	(a)

(a) Information not available.

(c) October to December only.

(b) Estimated.

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

PRODUCTION OF BRIQUETTES

(Long tons)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Great Britain	986,500	1,542,900	1,832,700	1,466,100	1,512,000	1,397,000	1,747,000
Canada	271,585	294,378	286,117	318,031	452,646	403,742	353,571
Australia (b)—							
Brown-coal briquettes ..	431,344	493,144	490,338	545,236	558,899	588,564	511,404
New Zealand	9,784	12,975	11,409	12,906	13,715	11,132	11,078
Irish Republic	117,598	84,426	53,205	(a)	(a)	(a)	(a)
FOREIGN COUNTRIES							
Belgium (e)	775,092	1,062,569	1,327,183	954,857	770,946	1,003,617	1,773,353
Czechoslovakia—							
Coal	70,183	205,876	255,037	(a)	(a)	(a)	(a)
Brown-coal briquettes ..	189,445	248,465	279,164	(a)	(a)	(a)	(a)
Denmark—							
Brown-coal briquettes ..	(a)	(a)	18,253	16,282	38,317	19,217	(a)
France	3,416,445	5,080,916	5,136,406	5,735,974	6,236,000	6,201,000	7,925,000
Germany (c)—							
Coal briquettes	1,302,000	1,872,000	2,142,000	2,925,000	3,529,500	3,662,900	4,039,000
Brown-coal briquettes ..	4,496,000	10,604,000	11,653,000	12,694,000	14,024,600	14,676,900	15,672,500
Italy—							
Anthracite briquettes ..	15,372	(a)	11,063	2,982	(a)	(a)	(a)
Brown-coal briquettes ..	9,885	(a)	15,184	1,565	(a)	(a)	(a)
Netherlands—							
Coal briquettes	406,055	714,395	895,674	921,084	976,134	1,032,524	1,045,571
Brown-coal briquettes ..	26,826	42,966	41,015	61,993	60,204	55,541	71,358
Poland—							
Coal briquettes	(a)	520,726	622,272	704,520	681,826	619,100	(a)
Brown-coal briquettes ..	(a)	—	41,038	111,839	168,570	166,700	(a)
Portugal	71,037	76,055	95,879	72,655	70,476	78,328	87,194
Spain	1,032,944	820,282	777,065	989,408	1,117,919	(a)	(a)
Sweden	29,251	25,161	85,527	109,571	58,558	(a)	(a)
Switzerland (estimated) ..	(a)	100,000	100,000	100,000	100,000	100,000	100,000
Algeria	100,148	95,978	81,581	76,591	49,328	64,553	(a)
Morocco (French)	37,921	21,851	45,485	31,234	14,380	34,027	(a)
Tunis	16,358	31,836	36,183	45,024	43,444	41,481	(a)
United States (d)	2,466,254	2,682,167	2,831,782	2,793,283	2,146,403	2,473,232	2,131,446
Indonesia	(a)	(a)	2,000	(a)	(a)	(a)	(a)
Turkey	23,338	12,364	14,891	7,205	(a)	(a)	(a)

(a) Information not available.

(b) Years ended June 30 of that stated.

(c) Western Zones only from 1946 inclusive.

(d) In addition packaged fuel produced was as follows (long tons):—
1945, 185,842; 1946, 170,463; 1947, 163,287; 1948, 140,190; 1949, 112,454; 1950, 121,145; 1951, 106,728.

(e) Revised.

PRODUCTION OF COAL BY-PRODUCTS

(Long tons)

Producing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Great Britain—							
Tar (quantity distilled) ..	2,121,000	2,196,000	2,274,000	2,447,000	2,481,000	2,530,000	2,700,000
Road tar (incl. refined) ..	628,000	735,000	732,000	742,000	648,000	616,000	608,000
Pitch	412,000	474,000	529,000	624,000	643,000	599,000	639,000
Motor benzol	172,900	224,300	174,500	215,700	230,600	216,900	195,700
Other motor spirits, etc.	110,300	118,300	81,000	111,000	134,000	134,300	119,700
Other refined light oils ..	140,800	89,700	86,500	99,100	94,100	116,100	138,800
Creosote-pitch mixture ..	559,000	381,000	305,000	310,000	425,000	580,000	632,000
Creosote oil	286,000	357,000	452,000	490,500	504,800	452,400	490,500
White naphthalene	7,400	7,500	10,700	11,800	11,800	12,000	13,200
Hot-pressed do.	10,000	8,400	8,900	14,000	13,600	13,900	15,400
Crude do.	14,900	19,400	12,600	13,700	12,200	14,000	12,600
Pyridine bases	600	650	650	700	700	750	930
Natural phenol	8,200	9,600	9,100	10,000	9,100	11,500	11,200
Refined cresylic acid	32,500	40,000	40,000	45,600	32,200	45,650	53,600
Anthracene 40-50%	1,940	2,240	2,280	2,700	2,600	2,550	2,590
Ammonium sulphate (b)	760,400	833,700	796,700	901,000	924,500	960,700	968,100
Canada—							
Tar* (crude)	194,847	169,456	167,053	193,544	194,118	207,325	(a)
Tar (refined)	53,732	26,845	18,243	12,532	18,169	22,178	22,447
Pitch	60,843	75,909	67,367	78,227	82,403	101,348	100,126
Creosote oils	48,782	48,738	45,823	52,592	59,795	55,848	55,841
Ammonium sulphate	35,077	27,210	29,465	37,168	35,105	36,516	(a)
Benzol	29,650	23,104	23,121	24,038	26,161	28,748	(a)
Ammonia liquor (NH ₃ content)	760	696	662	622	650	(a)	(a)
Toluol, naphthalene, etc.	6,569	2,635	4,060	567	584	(a)	(a)
India (coke-ovens)—							
Ammonium sulphate	19,591	19,108	18,395	16,212	19,328	22,104	25,713
Tar	59,836	62,953	63,810	59,183	66,587	80,521	82,909
Benzol (crude)	1,049	1,349	1,286	4,353	4,070	4,741	4,130
Pitch	1,942	1,829	1,247	1,299	1,143	971	1,224
Naphthalene (crude)	143	121	126	120	133	144	205
Australia (gas-works) (c)—							
Tar (crude)*	161,553	165,032	185,817	193,853	192,932	178,745	154,430
Tar (refined)*	34,289	37,864	40,145	43,985	40,315	35,324	36,275
Tar oils (crude)	14,204	15,126	18,422	19,150	15,537	13,772	14,807
Ammonia liquor	92,945	74,150	68,417	75,756	85,172	80,731	107,740
Ammonium sulphate	1,880	2,274	1,186	(a)	(a)	760	(a)
New Zealand (a)—							
Tar (gas-works)*	10,924	11,958	13,051	13,223	13,822	13,713	(a)
Irish Republic (gas-works)—							
Tar	6,868	6,781	6,237	10,276	12,917	14,102	14,405
Ammonium sulphate	911	1,019	261	338	312	277	240
FOREIGN COUNTRIES							
Austria—							
Tar	} (a)	(a)	(a)	(e) 21,235	(e) 20,831	{ 27,356	21,341
Benzol .. .. .								4,609	4,384

* See page 73 for conversion rates.

(a) Information not available.

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

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

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

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

PRODUCTION OF COAL BY-PRODUCTS (Cont.)

Producing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Belgium—							
Tar (crude)	52,872	127,346	158,349	189,588	178,682	164,273	200,473
Benzol, crude	5,266	7,559	8,533	21,672	38,088	36,213	(a)
do. motor	(a)	16,441	15,091	24,895	20,474	10,052	(a)
do. industrial	(a)	7,913	7,786	10,563	7,082	16,175	28,700
Benzine	(a)	3,117	7,389	5,678	8,716	6,156	15,498
Toluol and xylol	(a)	2,595	2,886	3,128	4,327	3,913	5,524
Solvent naphtha	(a)	815	826	672	844	814	1,091
Ammonium sulphate	18,600	40,250	49,191	66,424	61,513	56,270	(a)
Pitch	(a)	(a)	(a)	(a)	19,067	21,780	(a)
Denmark—							
Tar (gas-works)	28,626	22,620	30,538	36,748	39,370	41,274	(a)
Finland—							
Gas-works—							
Tar	1,941	1,996	2,586	2,744	2,742	2,984	3,583
Benzol	139	201	186	176	161	455	621
Ammonia	191	232	210	198	211	228	251
France—							
Tar (crude)	207,943	354,300	419,091	428,269	462,570	468,132	530,000
Ammonium sulphate	21,591	58,955	72,943	75,823	72,879	(a)	(a)
Benzol (crude)	21,893	55,770	55,445	60,956	67,823	71,477	80,000
Pitch	99,279	122,814	127,234	139,856	(a)	(a)	(a)
Phenol (crude)	2,678	3,879	3,931	4,992	(a)	(a)	(a)
Naphthalene	11,836	22,063	21,985	27,811	(a)	(a)	(a)
Germany (b)—							
Tar (crude)	(a)	446,900	638,200	806,600	1,036,452	1,159,835	1,378,353
Pitch		201,000	285,100	409,600	544,929	610,660	707,181
Tar oils		107,300	157,600	220,000	311,084	350,075	392,406
Naphthalene		(c) 21,212	(c) 31,972	(a)	(a)	53,945	55,511
Benzol (crude)		96,200	144,600	207,900	272,365	309,534	383,174
Refined benzols		82,400	125,200	189,600	243,814	268,149	344,209
Phenol, cresol, etc.		3,200	4,600	7,500	7,144	17,067	15,577
Italy—							
Tar	(a)	(a)	67,278	94,843	106,300	109,862	131,540
Ammonium sulphate			10,515	13,675	15,263	(a)	(a)
Benzol (crude)			9,976	13,471	14,221	14,852	19,277
Naphthalene (crude)			6,545	5,462	5,433	5,925	8,077
Distillates			27,951	43,002	44,391	56,589	60,314
Benzol (refined)			5,699	9,700	11,304	14,721	16,104
Toluol and xylol			698	1,911	1,727	2,413	4,523
Pitch			19,871	30,504	29,826	38,603	41,829
Solvents		3,405	4,686	2,298	3,283	3,576	
Netherlands—							
Tar (crude)	(a)	(a)	108,950	135,968	140,040	146,424	150,684
Norway—							
Tar (gas-works)	1,640	3,160	3,758	4,580	4,351	5,682	5,016
Poland—							
Tar (crude)	(a)	79,030	95,990	118,171	(a)	(a)	(a)
Pitch		13,292	14,758	19,199			
Ammonium sulphate		20,417	29,391	29,707			
Benzol (crude)		24,876	24,515	38,712			
Portugal (gas-works)—							
Tar (crude)	3,656	3,680	2,704	2,058	1,826	2,484	(a)
Tar (refined)	2,667	2,515	2,053	1,341	425	2,938	(a)
Benzol	25	8	21	24	11	144	(a)
Phenol	18	41	46	28	20	176	(a)
Anthracene	8	10	8	—	—	747	(a)
Cresote	810	545	513	494	153	1,836	(a)
Naphthalene (crude)	2	2	12	4	3	—	(a)
Pitch	1,068	907	869	714	190	873	(a)

(a) Information not available.
 (b) Bizonal area. Federal Germany after 1948.
 (c) British Zone only.

PRODUCTION OF COAL BY-PRODUCTS (Cont.)

Producing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Spain—							
Tar	35,700	35,900	35,941	34,893	48,787	(a)	(a)
Pitch	7,538	8,005	10,136	10,930	8,551	(a)	(a)
Benzol	(a)	(a)	7,613	6,636	7,101	(a)	(a)
Naphthalene	(a)	(a)	1,574	1,702	1,787	(a)	(a)
Ammonium sulphate	(a)	(a)	14,608	9,255	10,300	(a)	(a)
Creosote	3,365	6,056	2,955	3,778	2,557	(a)	(a)
Sweden—							
Tar (crude)	18,539	20,864	30,980	33,822	35,745	(a)	(a)
Other tar	16,082	24,159	24,378	28,814	25,727	(a)	(a)
Pitch	1,495	1,442	1,825	1,646	3,439	(a)	(a)
Ammonium sulphate	3,222	3,244	4,241	(a)	(a)	(a)	(a)
Benzol, toluol, etc.	3,369	3,084	3,995	4,067	3,825	(a)	(a)
Distillates, etc.	3,628	1,707	1,226	1,247	2,790	(a)	(a)
Switzerland—							
Tar (crude) (gas-works)	7,286	10,346	19,534	(a)	(a)	(a)	(a)
Benzol	(a)	1,858	2,450	(a)	(a)	(a)	(a)
Algeria—							
Tar (gas-works)	5,364	5,187	4,818	6,214	5,550	5,511	5,669
Tunis—							
Tar (gas-works)	871	1,080	1,488	1,281	1,388	1,392	(a)
United States—							
Coke-ovens—							
Tar*	2,975,672	2,550,721	3,146,045	3,157,073	2,873,536	3,161,832	3,398,766
Pitch	523,786	455,795	587,005	657,960	481,965	639,028	755,746
Sulphate equivalent of ammonia produced(b)	780,999	664,033	814,564	830,083	756,970	825,503	890,869
Benzol*	422,235	365,763	402,939	499,996	409,138	514,888	576,164
do. motor*	77,387	73,653	42,480	24,232	56,247	20,772	13,720
Naphthalene (crude)	39,142	31,967	43,919	47,240	31,618	44,522	58,534
Toluol and xylol*	112,985	73,549	109,565	116,776	114,167	126,574	141,825
Solvent naphtha*	15,393	14,106	20,986	18,406	16,016	19,240	19,347
Creosote*	146,155	123,503	160,707	138,828	96,740	149,642	170,524
Phenol*	(a)	(a)	(a)	3,760	2,818	3,544	3,556
Other light products	26,115	25,241	27,897	26,872	23,742	22,727	23,069
All sources (c)—							
Coal tar	3,074,120	2,633,611	3,219,397	3,218,205	2,920,782	3,201,547	(a)
Water gas and oil gas tar	769,231	942,030	1,076,068	1,149,701	990,555	1,022,457	(a)
Crude light oil (d)	867,457	887,967	931,207	890,680	792,390	897,033	(a)
Benzol, motor	87,234	85,556	52,965	28,263	62,798	38,177	(a)
do. other	520,717	454,510	558,840	579,533	444,193	586,743	(a)
Toluol	(d) 432,709	79,033	109,026	110,778	109,709	125,533	(a)
Xylol	31,163	26,539	27,000	26,118	26,680	31,163	(a)
Solvent naphtha	25,038	28,449	40,644	48,077	16,016	19,240	(a)
Other light oil derivatives	49,293	41,320	55,220	60,427	50,760	51,070	(a)
Naphthalene (crude)	128,409	108,157	140,500	146,230	105,339	128,800	(a)
Creosote oil	614,484	541,274	632,857	575,123	525,437	564,754	(a)
Coal tar (e)	33,308	40,145	48,893	42,838	39,534	40,577	(a)
Tar, refined (f)	133,291	74,581	83,808	91,739	120,312	2,013	(a)
Tar, road	718,496	664,637	682,085	554,081	644,530	644,538	(a)
Distillate products, others	29,024	50,833	87,155	93,746	150,802	143,635	(a)
Pitch of tar	1,494,643	1,783,000	1,294,000	1,528,000	1,055,000	1,333,000	(a)
Pitch of tar coke	77,679	83,000	90,000	58,000	52,000	57,000	(a)

(a) Information not available.

(b) Actual Ammonium sulphate produced was as follows (long tons): 1945—682,404; 1946—574,779; 1947—722,714; 1948—769,135; 1949—728,244; 1950—755,103; 1951—(a)

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

(d) Including some material produced from petroleum.

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

(f) Used for paints, etc.

PRODUCTION OF COAL BY-PRODUCTS (Cont.)

Producing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Brazil (b)—							
Tar (crude)	(a)	(a)	(a)	13,898	(a)	(a)	(a)
Road tar				9,111	(a)	(a)	(a)
Benzol, motor				2,405	(a)	(a)	(a)
do. other				334	(a)	(a)	(a)
Toluol and xylol				469	(a)	(a)	(a)
Solvent naphtha				44	(a)	(a)	(a)
Naphthalene				566	(a)	(a)	(a)
Creosote oil				78	(a)	(a)	(a)
Ammonium sulphate				4,209	(a)	(a)	(a)
Pitch				98	(a)	(a)	(a)
Carbolic acid	301	(a)	(a)	(a)			
Chile—							
Tar	14,543	(a)	14,407	16,153	17,006	16,378	15,230
Uruguay (gas-works)—							
Tar	1,739	1,605	1,741	1,806	1,847	2,020	1,979
Benzol	591	334	338	54	56	33	99
Tar oil	216	254	291	46	74	127	87
Pitch	180	234	206	169	307	422	253
Japan—							
Tar	121,896	71,099	119,853	168,051	235,997	288,955	390,513
Benzol (crude)	20,267	8,161	14,184	27,566	45,423	58,757	81,610
do. (other)	11,598	3,957	6,496	14,411	21,826	27,520	38,892
Toluol and xylol	1,488	520	1,193	1,783	3,437	5,031	5,622
Solvent naphtha	1,098	437	1,630	1,878	3,520	4,984	5,374
Creosote oil	33,128	12,578	24,944	47,277	64,544	69,032	82,484
Carbolic acid (crude)	1,346	413	898	1,606	2,362	3,260	4,701
Pitch	72,873	36,872	54,293	87,126	119,309	157,658	(a)
Naphthalene (crude)	4,972	2,374	2,728	7,134	12,118	14,362	18,708
do. (refined)	1,854	921	1,016	3,366	5,752	7,228	11,173
Anthracene	1,311	343	531	1,453	2,575	2,622	3,212
Turkey—							
Coke-ovens—							
Tar (crude)	(a)	12,968	—	(a)	(a)	15,405	(a)
Benzol (crude)	(a)	3,389	—	(a)	(a)	3,161	(a)
Road tar	503	377	324	(a)	(a)	(a)	(a)
Heavy oils	(a)	3,792	5,257	(a)	(a)	(a)	(a)
Naphthalene (crude)	445	204	—	(a)	(a)	748	(a)
Anthracene (crude)	(a)	318	241	(a)	(a)	(a)	(a)
Pitch	6,244	7,691	7,245	7,636	(a)	(a)	(a)
Naphthalene (refined)	300	340	441	(a)	(a)	(a)	(a)
Motor benzol	2,293	2,670	2,775	(a)	(a)	(a)	(a)
Other benzol	(a)	1,579	—	(a)	(a)	(a)	(a)
Solvent naphtha	94	44	93	(a)	(a)	(a)	(a)
Gas-works—							
Tar	2,283	2,636	2,901	3,127	2,967	2,985	(a)

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

(a) Information not available.

(b) Volta Redonda only.

EXPORTS OF COAL, COKE AND BY-PRODUCTS*

(Domestic Produce)

(Long tons)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Anthracite—							
smalls and graded ..	486,552	913,222	67,612	398,669	606,185	823,628	622,884
large	7,957	49,515	35,035	133,001	309,404	410,923	296,822
other	—	183	469	4,478	17,119	32,944	171,489
Bituminous—							
smalls and graded ..	1,639,780	1,959,875	490,037	5,335,887	6,230,309	5,432,948	1,780,410
unscreened	723,406	702,969	242,938	1,524,371	2,065,545	2,076,200	1,239,079
large	467,009	828,733	220,842	3,108,931	4,395,078	4,279,327	2,288,274
other	(a)	(a)	(i)	(a)	292,276	494,662	1,407,611
Bunkers	3,104,824	4,719,234	4,393,672	5,430,574	5,043,692	4,020,158	3,722,969
Coke, gas	25,851	79,286	4,067	634,752	795,616	865,630	222,727
do. other	157,567	397,665	68,313	227,004	873,003	1,339,709	672,810
Manufactured fuel ..	21,399	20,070	—	199,795	370,995	384,898	427,607
Tar	42,847	109,451	186,007	160,485	88,094	141,138	74,127
Pitch	154,208	179,008	216,469	232,196	241,269	282,128	352,109
Creosote oil	2,550	23,947	163,807	170,359	161,173	129,802	122,685
Other heavy coal-tar oils	970	4,457	5,435	3,250	3,861	3,201	6,473
Naphthalene	2,502	2,754	1,054	3,045	3,512	4,780	1,991
Carbolic acid—							
Crude	16	11	30	14	6	} 965	233
Crystals	1,534	394	23	36	1,563		
Cresylic acid	10,576	13,880	11,119	11,988	6,755	15,807	17,041
Benzol	122,404	4,832	2,274	213	90	44,564	163,639
Anthracene	—	—	—	—	3	1	—
Other coal-tar products	4,527	11,928	10,348	9,340	6,715	(a)	(a)
Malta—							
Coal (bunkers on merchant ships, (b) ..	(a)	3,672	4,112	8,717	2,888	1,853	1,445
Kenya—							
Coal (bunkers) (b) ..	48,260	29,899	39,099	24,141	27,688	18,076	2,949
Mauritius—							
Coal (bunkers) (b) ..	(a)	11,092	10,989	10,206	7,295	5,342	4,852
Nigeria—							
Coal	184,797	177,528	135,699	83,120	63,332	2,718	98,610
do. (bunkers)	7,827	10,854	20,937	14,186	(a)	(a)	(a)
do. do. (b)	6,058	2,809	—	—	—	—	—
Sierra Leone—							
Coal (bunkers) (b) ..	156,383	92,392	77,469	45,433	33,571	18,491	(a)
Southern Rhodesia—							
Coal	784,146	649,922	604,463	704,595	728,547	784,478	877,776
Coke	78,835	68,598	55,200	62,397	47,622	53,996	58,736
Union of South Africa—							
Coal	3,760,343	3,145,590	2,596,060	1,689,238	1,824,716	2,527,299	1,687,929
do. (bunkers)	760,481	712,896	605,216	560,678	580,432	371,780	237,423
Coke	63,482	49,879	39,321	11,462	14,443	42,401	41,410
Tar and pitch	2,231	5,515	8,338	5,742	2,891	2,766	(a)
Canada—							
Coal	735,455	762,430	630,721	1,127,631	379,468	340,071	374,983
do. (bunkers) (c) ..	164,573	197,240	159,725	105,885	107,029	85,871	93,053
do. do. (d)	458,283	309,271	381,062	365,705	321,379	261,720	246,771
Lignite	15,177	7,649	7,269	9,210	6,285	12,573	13,484
Coke	34,522	43,921	95,136	149,374	243,850	308,071	144,377
Tar and pitch	16,052	11,331	6,117	344	18	14	3,185
Creosote oil	8,298	412	151	3	—	41	32
Other coal tar oils ..	10,773	13,565	10,087	18,804	19,854	14,940	11,252

* For Ammonium sulphate, etc. see Nitrogen Compounds, pages 203–204.

(a) Information not available.

(b) Foreign coal (see imports).

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

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

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

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES (Cont.)							
British West Indies—							
Bermuda—							
Coal (bunkers) (c) ..	(a)	(a)	(a)	3,425	1,240	900	(a)
British Guiana—							
Coal (bunkers) (c) ..	167	97	11	—	3	3	10
Jamaica—							
Coal (bunkers) ..	(b) 11,271	(b) 26,284	(b) 72,929	(b) 34,966	(b) 38,732	(b) 14,973	20,819
Trinidad and Tobago—							
Coal (bunkers) (c) ..	79,969	59,819	81,172	55,742	33,483	18,482	16,769
Aden—							
Coal (bunkers) (c) ..	191,580	285,542	309,365	193,397	202,488	130,794	88,516
India—							
Coal	53,860	463,522	547,631	934,521	1,360,315	910,645	1,885,491
do. (bunkers—domestic produce)	382,595	551,499	495,274	382,122	410,861	231,257	291,685
do. (bunkers—foreign produce)	—	125	—	—	—	—	—
Coke	179	983	2,895	13,767	2,304	7,699	22,987
Malaya (including re-exports)—							
Coal	(a)	2,002	1,581	323	105	1	1,209
do. (bunkers) (c) ..	(a)	(a)	120,236	71,974	66,307	44,286	37,297
Coke	(a)	2,227	214	351	348	273	658
Tar and pitch	(a)	234	241	272	247	254	1,222
Ceylon—							
Coal (bunkers) (c) ..	134,701	137,994	104,441	112,400	109,111	80,644	68,803
Cyprus—							
Coal (bunkers) (c) ..	(a)	96	163	638	560	225	329
Hong Kong (re-exports)—							
Anthracite		4,999	85	} 2,768	19,406	53,107	10,974
Bituminous	(a)	1,442	3,080				
Briquettes		—	—				
Coke		211	223					1,361	356	398	431
Australia—							
Coal	121,735	88,598	48,364	49,904	48,247	67,391	114,503
do. (bunkers) (d) ..	207,462	228,977	405,428	283,354	293,707	135,059	(a)
Coke	16,376	40,401	7,739	5,348	2,523	2,920	741
Carbolic acid (d) ..	(a)	(a)	(a)	23	353	652	(a)
Other coal tar oils ..	(a)	(d) 1,541	(d) 3,435	(d) 2,746	3,579	2,460	3,255
New Zealand—							
Coal	19	2,558	4,068	2,420	7,032	2,983	3,176
do. (bunkers)	21,970	24,809	23,967	16,493	14,543	2,083	2,889
Coke	5	7	11	19	323	1,134	292
Tar	10	49	9	17	13	138	59
Pitch	1	—	—	—	—	—	—
Irish Republic—							
Coal (bunkers) (c) ..	13,806	3,089	2,023	3,711	1,843	1,042	399
Coke	—	—	—	1,454	—	—	—
FOREIGN COUNTRIES							
Austria—							
Brown coal	(a)	(a)	(a)	(a)	(a)	1,084	2,207
Coke	(a)	(a)	20,061	18,663	14,586	15,944	168
Tar	(a)	(a)	(a)	(a)	—	8,302	2,250
Naphthalene	(a)	(a)	(a)	(a)	976	1,318	1,756

(a) Information not available.

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

(c) Foreign coal (see imports).

(d) Years ended June 30 of that stated.

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

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Belgium-Luxemburg E.U.—							
Coal	36,591	304,827	827,683	606,776	1,262,332	2,727,791	1,861,427
do. (bunkers) (b) ..							
Coke	155,089	471,480	684,884	692,408	392,126	334,631	348,915
Briquettes	651	15,803	72,103	45,440	12,648	15,126	273,945
Brown coal briquettes ..	(a)	(a)	(a)	261	46	—	—
Tar	(a)	(a)	(a)	1,573	4,655	5,064	1,592
Naphthalene	(a)	(a)	(a)	8,659	5,739	9,109	9,870
Distillates	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Bulgaria—							
Coal	6,746	4,611	(a)	(a)	(a)	(a)	(a)
Czechoslovakia—							
Coal	(a)	24,590	34,035	(c) 438,250	(a)	(a)	(a)
Brown coal		308,589	941,987	(c) 942,665			
Coke	(a)	270,503	567,846	(c) 840,114	(a)	(a)	(a)
Briquettes		20	3,076	(c) 20			
Tar and pitch	(a)	67,160	31,813	(c) 19,412	(a)	(a)	(a)
Benzol, etc.		3,600	1,172	(c) 2,830			
Crude naphthalene	(a)	1,023	1,779	(c) 5,794	(a)	(a)	(a)
Crude carboic acid		248	1,606	(c) 3,261			
Cresol	(a)	29	208	(c) 418	(a)	(a)	(a)
Creolin, etc.		818	1,612	(c) 1,498			
Denmark—							
Tar and pitch	1,284	79	87	24	124	6,486	5,691
France—							
Anthracite	40,750	299,264	33,588	14,570	9,959	16,554	17,211
Bituminous .. .. .								284,735	3,439,185	5,247,756	6,161,423	5,830,856
Brown coal	—	462	12,984	1,061	381	253	2,526
Coke	986	45,129	47,315	419,514	404,811	277,346	254,439
Briquettes	226	78,045	106,641	12,698	25,082	47,265	67,959
Brown coal briquettes ..	—	1,083	—	2,058	718	2,289	5,268
Coal, coke and briquettes—							
Bunkers (domestic pro-	36,834	(a)	(a)	(a)	(a)	(a)	(a)
do. (foreign pro-	20,149	(a)	(a)	(a)	(a)	(a)	(a)
duce)	380	1,317	4,715	25,061	5,416	3,480	32,452
Tar and pitch	—	84	148	2,680	276	1,200	10,038
Benzol, etc.	4	926	1,296	1,025	2,178	10,101	8,264
Naphthalene	42	77	99	70	10	108	117
Carboic acid, etc.	(a)	(a)	(a)	1,735	885	1,422	1,349
Carbolineum	62	97	61	1	25	206	258
Anthracene	—	110	454	531	244	931	15,208
Coal tar oils							
Germany (Federal)—							
Coal	—	—	—	9,173,908	12,654,798	15,144,844	12,856,466
do. (bunkers for foreign	(a)	e 12,884,000	f 19,999,000	129,674	326,037	346,182	351,720
ships)	(a)	(a)	—	—	—	—	—
Brown coal	(a)	(a)	(a)	6,736,716	7,663,176	8,018,510	9,734,545
Coke				123,036	98,492	244,842	241,086
Coal briquettes	(a)	(a)	(a)	1,528,237	1,575,199	1,565,681	1,573,720
Brown-coal briquettes ..				390	34,123	107,453	132,076
Tar and pitch	(a)	(a)	(a)	3,349	7,040	30,302	15,881
Naphthalene				—	124	1,599	(d) 149
Carboic acid	(a)	(a)	(a)	1	103	2,831	(d) 1,249
Cresol				3,152	792	1,092	14,394
Light coal-tar oils, etc. ..	(a)	(a)	(a)	17,299	18,430	86,630	75,675
Heavy coal-tar oils, etc.				—	—	—	—

(a) Information not available.

(b) Bunkers for foreign ships only.

(c) January to October only.

(d) January to September only.

(e) British and French Zones only.

(f) British, French and Russian Zones.

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

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Hungary—							
Coal	(a)	80,705	130,093	(a)	(a)	(a)	(a)
Lignite							
Coke							
Briquettes							
Italy—							
Coal (incl. bunkers)	(a)	(a)	4,508	7,130	8,149	3,167	2,495
Coke			—	50,413	116,846	58,983	14,839
Tar and tar oils			9	2	4,004	821	198
Pitch			(a) ¹	(a)	(a)	(d) 8,384	20,394
Naphthalene	(a)	(a)	—	—	—	2	102
Netherlands—							
Coal	(a)	351	46,685	35,173	17,903	22,550	11,607
do. (bunkers) (b)		184,357	246,877	255,415	326,771	371,147	342,807
Brown coal		(a)	(a)	35,685	2,772	266	23,074
Coke		436,206	524,613	881,927	941,912	1,093,039	1,177,088
Briquettes		116	113	439	—	317	355
Brown coal briquettes		(a)	(a)	4,390	5,620	9,894	10,989
Tar		15	1,276	677	1,486	1,685	1,039
Creosote		3,720	9,225	17,791	(a)	29,423	26,865
Naphthalene		1,880	3,179	5,320	8,286	7,865	8,515
Anthracene		3,237	1,381	1,175	1,115	1,799	3,871
Carbolic acid		—	22	—	—	1,549	1,947
Benzol		2,521	10,511	11,782	16,900	13,813	12,981
Toluol and xylol		23	29	394	—	727	22
Solvent naphtha		14	—	35	—	9	101	195
Norway—							
Coal	—	—	33	4,951	—	14	(a)
Tar	—	4	4	1	—	—	(a)
Pitch	5	43	32	5	19	191	(a)
Poland—							
Bituminous	5,403,194	13,270,447	17,609,908	24,361,553	(a)	(a)	(a)
Brown coal	(a)	1,174,869	4,171,882	4,193,280			
Coal (bunkers) (c)	9,842	317,899	400,108	563,560			
Coke	90,744	1,411,746	1,423,084	1,542,382			
Briquettes	4,921	4,921	8,303	1,674			
Naphthalene	—	1,575	841	3,393			
Benzol	—	10,563	8,923	10,386			
Creosote, etc.	—	1,022	(a)	(a)			
Portugal—							
Coal	192	4	137	116	1,227	152	526
do. (bunkers) (c)	21,329	28,252	18,280	21,541	15,364	8,266	621
Tar and pitch	185	102	80	97	194	76	150
Spain—							
Anthracite	9,519	30,646	17,242	7,878	3,407	21,234	14,763
Bituminous	337,251	357,741	222,912	84,048	16,952	40,449	96,766
Other coal	3	13	214	443	—	858	37
Coke	243	568	555	733	858	1,206	381
Briquettes	4,190	2,737	59	—	—	59	695
Carbolic acid, naphthalene, etc.	32	95	149	97	171	62	72
Tar and pitch	19	20	5	6	27	119	28
Spitzbergen—							
Coal (including bunkers)	289	61,741	276,751	413,686	522,922	(a)	(a)
Sweden—							
Coal	14,335	—	793	—	—	30	43
Coke	9,979	—	1,000	—	—	26,469	1,373
Tar, pitch, etc.	428	3,570	8,205	10,893	4,690	18,301	9,522
Benzol	1,213	1,780	2,150	1,550	106	2,498	980
Carbolic acid, etc.	52	24	3	5	—	—	1
Toluol and xylol	56	844	547	113	237	4,958	1,609
Yugoslavia—							
Bituminous	(a)	(a)	(a)	(a)	(a)	104,077	60,429
Brown coal	(a)	(a)	(a)	(a)	(a)	26,204	186,582
Lignite	(a)	(a)	(a)	(a)	(a)	—	1,823

(a) Information not available.

(b) Including imported coal.

(c) Bunkers for foreign ships.

(d) July to December only.

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

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Switzerland—							
Coal	—	99	197	34	334	322	217
Coke	—	—	9	—	976	25	—
Briquettes	—	—	1,544	309	197	546	573
Tar and pitch	—	2,524	3,024	5,098	4,679	2,561	2,391
Creosote, etc.	1	113	604	991	976	55	801
Naphthalene, etc.	47	675	840	1,129	1,295	3,016	2,978
Algeria—							
Coal	(a)	(a)	33,324	30,019	40,873	44,407	78,077
do. (bunkers)	4,668	85,790	307	68	482	176	1,181
do. do. (b)	24,269	112,769	90,910	51,433	60,435	(a)	114,518
Coke	5	—	3	—	90	10	74
Briquettes	9	21	—	93	—	—	9
do. (bunkers) (b)	—	—	107	163	400	21	307
Tar	10	144	12	524	853	—	159
Angola (b)—							
Coal	17	—	57	(a)	(a)	(a)	(a)
Tar	857	252	(a)	(a)	(a)	(a)	(a)
Canary Islands—							
Coal	3	3	7	1	2,143	41	—
do. (bunkers) (b)	21,265	55,505	63,434	78,776	87,847	61,831	49,497
Ceuta—							
Coal	4,494	6,082	5,286	8,179	1,388	3,314	2,328
do. (bunkers) (b)	151,148	126,851	158,525	112,247	127,371	147,240	80,505
Egypt—							
Coke	3	2	1	1	3	(a)	(a)
Tar and Pitch	—	50	104	5	15	(a)	(a)
Madagascar—							
Coal (bunkers)	7,509	15,729	11,964	3,289	56	3,142	88
Morocco (French)—							
Anthracite	15,401	100,200	99,688	(a)	159,628	145,853	234,369
Other coal	374	50,377	2,804	(a)	(a)	(a)	(a)
Briquettes	15,401	12,470	18,225	(a)	(a)	(a)	(a)
Mozambique—							
Coal (incl. bunkers)	9,108	8,341	9,509	8,184	3,096	5,834	24,707
Mexico—							
Anthracite	34	—	51	327	342	173	(a)
Other coal	320	3,864					
Coke	37	—	(a)	(a)	(a)	(a)	(a)
Naphthalene	—	11	(a)	(a)	(a)	(a)	(a)
Benzol, toluol, etc.	3	—	(a)	(a)	(a)	(a)	(a)
Creosote	—	—	(a)	(a)	(a)	(a)	(a)
United States—							
Anthracite	3,295,756	5,787,413	7,598,210	5,960,638	4,413,098	3,474,615	5,320,692
Bituminous	24,960,886	36,783,373	61,309,788	41,009,047	24,858,979	22,739,646	50,648,353
do. (bunkers)	1,593,711	1,232,602	1,508,329	943,855	780,383	640,614	(a)
Coke	1,320,309	1,099,399	747,533	630,527	489,514	355,220	916,723
Briquettes	151,215	145,838	222,107	185,612	149,232	156,936	150,696
Tar and pitch	70,207	328,425	292,678	159,124	149,762	49,646	76,867
Benzol	9,816	23,429	5,156	5,760	4,332	4,307	1,121
Creosote	3,361	1,311	4,134	3,189	2,879	1,593	1,590
Toluol and xylol	18,456	(c) 9,730	(c) 11,271	(c) 13,106	—	—	—
Carbolic acid	7,523	11,021	9,178	13,419	10,242	6,272	9,418
Argentina—							
Coal	36,958	70,147	(a)	(a)	(a)	(a)	(a)
Coke	10	6	(a)	(a)	(a)	(a)	(a)
Tar and pitch	13	1	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

(b) Foreign coal (see imports).

(c) Toluol only.

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

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Chile—							
Coal (including bunkers)	53,871	38,745	14,423	33,708	61,000	80,705	50,000
Coke	98	169	202	59	—	(a)	(a)
Colombia—							
Coal	765	10	(a)	(a)	(a)	(a)	(a)
Peru—							
Coal	22,945	55,398	47,277	24,820	} 16,126	{ 27,104	(a)
do. (bunkers) ..	5,275	3,900	1,376	14			(a)	(a)
China—							
Coal (including bunkers)	—	41,669	15,333	18,976	(a)	(a)	(a)
Coal dust	—	8,088	756	—	(a)	(a)	(a)
Coke	(a)	5	1	—	(a)	(a)	(a)
French Indo-China—							
Coal (including bunkers)	93	239	23,822	67,884	71,469	57,596	200,000
Indonesia—							
Coal	(a)	—	—	27,250	27,538	61,206	114,339
Japan—							
Coal	(a)	786,731	803,112	1,086,564	767,681	499,666	845,433
Tar and pitch	(a)	1,352	2,156	148	(a)	16,437	(a)
Portuguese India—							
Coal	74	—	40	—	—	(a)	(a)
Syria and Lebanon—							
Coal	478	3,036	(a)	(a)	(a)	(a)	(a)
Coke	—	—	(a)	(a)	(a)	(a)	(a)
Tar	—	219	(a)	(a)	(a)	(a)	(a)
Turkey—							
Coal	18	174,063	110,813	1,109	1,458	335	25,207

(a) Information not available.

IMPORTS OF COAL, COKE AND BY-PRODUCTS*

(Less Re-exports)

(Long tons)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Coal	1,041	7,211	694,438	80,224	476	4,834	1,225,544
Coke	10	3,200	2,212	—	—	1	4
Manufactured fuel	—	—	55	10	—	2	2
Tar and pitch	3,211	1,798	2,008	1,689	2,854	3,033	2,016
Other heavy coal-tar oils	1	5	(d) 779	14	(d) 4	(a)	(a)
Naphthalene	—	20	—	22	—	—	16
Carbolic acid	—	2,744	1,930	5,670	918	1,506	2,223
Benzol	—	372	(d) 281	—	—	—	—
Malta—							
Coal (c)	(a)	4,581	17,554	18,997	17,262	20,501	17,613
Anglo-Egyptian Sudan—							
Coal	60,291	45,021	29,544	71,072	71,260	53,353	59,490
Coke	895	380	—	1,892	498	888	(a)
Pitch	12	145	—	2	1	—	(a)
Tar	405	651	138	481	117	48	(a)
Tar oils	3	13	10	1,033	510	515	(a)
Gambia—							
Coal, coke and patent fuel	1,233	1,205	905	213	—	5	173
Tar and pitch	6	6	12	6	5	9	9
Gold Coast—							
Coal	91,243	107,243	87,809	98,710	129,767	61,892	160,725
Coke	426	245	505	246	450	298	696
Patent fuel	—	—	—	56	—	—	—
Tar and pitch	3,607	1,878	2,035	3,566	4,627	3,880	1,805
Kenya (e)—							
Coal (c)	229,480	192,637	219,416	159,960	59,288	41,640	19,001
Coke	1,072	687	846	659	1,205	1,523	1,440
Creosote, etc.	42	95	51	107	143	138	313
Tar	—	9,213	3,018	166	146	9	31
Tar oils	(a)	(a)	(a)	(a)	37	37	44
Mauritius—							
Coal (c)	32,448	50,050	51,425	63,799	40,520	48,261	24,232
Coke	152	527	512	486	520	289	628
Tar and pitch	82	(a)	36	(a)	13	6	36
Nigeria—							
Coal (c)	5,383	1,770	124	1,179	153	60,495	3
Coke	932	427	666	869	547	1,197	840
Patent fuel	(£28)	(£13)	2	—	—	1	1
Tar and pitch	3,660	4,287	3,363	2,216	509	859	1,737
Northern Rhodesia—							
Coal	555,350	391,786	487,805	565,608	562,737	637,988	696,181
Coke	3,745	3,029	5,363	5,762	6,366	6,025	7,692
Tar and creosote oil	87	18	15	23	28	53	56
Tar and pitch	252	174	85	157	197	253	468
Nyasaland—							
Coal	8,627	10,538	11,048	14,842	12,950	24,010	23,132
Coke	23	63	41	109	120	144	152
Tar and pitch	(a)	(a)	123	81	627	1,667	784
Sierra Leone—							
Coal (b)	162,344	125,036	93,975	69,455	61,820	39,722	9,985
Coke	52	171	—	118	215	5	—
Tar and pitch	102	130	73	328	116	286	4,954

* For ammonium sulphate, etc., see Nitrogen Compounds, pages 205-210.

(a) Information not available.

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

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

(d) Excess of re-exports.

(e) Including Uganda up to 1948 inclusive.

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

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951	
BRITISH COUNTRIES (Cont.)								
Southern Rhodesia—								
Coal	} 1,288	{ 1,264	1,463	2,196	2,642	3,582	6,902	
Coke			73	69	40	57	—	—
Tar and pitch			1,023	600	759	3,621	2,273	1,233	2,113
South West Africa—								
Coal	7,215	11,902	18,621	23,448	16,529	25,896	(a)	
Coke	10	17	104	15	70	53	(a)	
Tanganyika—								
Coal	28,314	20,930	35,424	53,555	45,284	56,605	50,917	
Coke	231	429	206	518	770	207	986	
Creosote, etc.	45	78	41	124	128	102	112	
Tar	36	95	317	233	126	37	42	
Tar oils	(a)	(a)	(a)	8	3	1	11	
Uganda—								
Coal	} (b)	(b)	(b)	(b)	{ 42	25	11	
Coke						213	198	
Creosote, etc.						95	102	
Tar						41	6	
Tar oils					11	9	10	
Union of South Africa—								
Coal	42,465	64,230	67,968	62,869	66,041	37,557	(a)	
Coke	357	172	81	11	—	55	(a)	
Naphthalene	—	5	44	21	4	49	(a)	
Tar and creosote	361	1,030	1,214	2,214	2,648	2,237	(a)	
Zanzibar—								
Coal	14,352	7,690	9,641	15,537	10,057	6,866	100	
Canada (c)—								
Anthracite	3,027,576	4,092,711	3,785,940	4,656,084	3,507,892	3,822,422	3,439,390	
do. dust	19,512	42,456	36,990	26,806	14,550	4,705	1,173	
Bituminous	18,870,601	18,847,450	21,592,192	22,495,936	15,956,586	19,970,159	20,233,343	
do. (f)	458,283	309,271	381,062	365,705	321,379	261,720	246,771	
Brown coal	417	154	181	13,064	14,774	6,671	8,165	
Briquettes	127,174	162,706	219,355	275,672	166,938	170,655	151,926	
Coke	1,111,295	714,990	511,482	485,975	373,446	301,715	538,521	
Creosylic acid	192	125	161	274	79	206	915	
Benzol	99	632	10	116	2,551	4,110	2,234	
Tar	12,157	16,779	15,431	10,068	3,344	30,101	37,084	
Pitch	1,839	1,716	12,921	29,696	20,199	15,732	36,672	
Naphthalene	894	464	1,033	519	660	758	489	
Carbolic acid, etc.	2,551	2,824	11,241	22,596	11,777	23,227	20,420	
Newfoundland (d)—								
Anthracite	25,946	22,039	53,956	20,321	} (d)	(d)	(d)	
Other coal	486,297	438,276	521,669	416,313				
Coke	(e) 503	(e) 421	(e) 3,482	68,764				
Tar	839	916	521	396				
Pitch	106	104	240	117				
Creosote	12	136	261	856				
British Guiana—								
Coal (g)	7,902	5,600	6,405	5,250	3,998	291	3,281	
Coke	34	140	131	192	144	126	309	
Patent fuel	—	—	—	1,000	321	3,050	2,007	
British West Indies—								
Bahamas—								
Coal	25	93	75	29	32	16	3	
Barbados—								
Coal, coke, and patent fuel	2,010	1,617	3,115	2,134	1,491	2,009	2,093	
Bermuda—								
Bituminous (g)	5,251	2,686	10,600	3,795	4,363	1,389	1,081	
Coke	27	5	366	—	—	40	(a)	

(a) Information not available. (b) Included with Kenya. (c) Including Newfoundland from April 1, 1949.

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

(e) Including charcoal.

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

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

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

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES (Cont.)							
British West Indies—cont.							
Grenada—							
Coal	8	3	1	4	10	3	—
Coke	29	—	—	11	—	—	5
Jamaica—							
Coal (b)	34,971	52,284	85,464	39,085	44,993	14,966	24,237
Coke	139	157	148	445	479	706	583
Tar and pitch	3	2	10	19	11	20	18
Leeward Islands—							
Coal, coke and patent fuel	3,501	2,076	4,021	21	5,201	(d) 13	5,747
St. Lucia—							
Coal	—	—	3	79	56	57	38
Coke	—	2	2	—	—	—	—
Tar	—	2	1	25	4	5	4
St. Vincent—							
Coal	26	(a)	17	14	(a)	(a)	(a)
Trinidad and Tobago—							
Coal (c)	83,073	59,860	86,654	58,960	38,676	26,007	9,583
Coke	3,821	30	—	214	228	39	227
Patent fuel	5	—	—	5	1,080	6	(a)
Tar and pitch	135	150	118	90	135	84	(a)
Falkland Islands—							
Coal	2,762	4,568	2,866	2,500	1,471	1,796	2,793
Coke	130	87	174	41	40	26	83
British Honduras—							
Coal and coke	61	82	24	21	42	18	19
Tar and pitch	13	227	4	9	4	13	31
Aden—							
Coal (b)	211,967	275,114	327,603	227,349	230,077	109,061	115,178
Coke	47	20	50	29	50	—	220
Tar and pitch	11	121	—	15	(e) 70	64	52
Naphthalene	477	357	606	457	522	297	39
India (total imports)—							
Coal	302	8,345	200	10	4	1,425	13
Coke	855	10	—	750	—	—	—
Tar and pitch	592	376	431	657	1,162	386	712
Naphthalene	210	146	62	39	106	15	19
Carbolic acid	148	39	6	27	163	46	19
Malaya (total imports)—							
Coal (b)	(a)	57,457	211,165	125,820	135,648	93,627	152,475
Coke	(a)	392	2,346	7,337	4,762	5,695	13,069
Tar and pitch	(a)	994	1,261	1,266	986	1,650	1,054
Ceylon—							
Coal (c)	332,676	342,966	319,668	343,928	310,655	367,792	237,639
Coke	38	319	53	1,104	1,474	654	918
Tar and pitch	233	115	409	277	158	46	94
Cyprus—							
Coal (c)	1,574	1,110	1,047	7,390	3,851	1,492	647
Coke and briquettes	—	270	379	353	497	413	645
Tar and pitch	3	11	6	2	13	18	14
Naphthalene	9	20	38	41	14	41	9
Hong Kong (total imports)—							
Anthracite	(a)	20,087	16,390	} 325,573	421,718	317,124	277,623
Bituminous	(a)	12,114	206,816				
Coke	(a)	517	1,829				
Palestine—							
Anthracite	4,676	4,058	} (a)	(a)	(f)	(f)	(f)
Other coal	11,220	738					
Coke	1,653	93					
Patent fuel	—	—					
Briquettes	—	—					
Tar and pitch	3	46					

(a) Information not available.

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

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

(d) Incomplete.

(e) Excess of re-exports.

(f) See "Israel" under Foreign Countries.

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

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951	
BRITISH COUNTRIES (Cont.)								
Australia—								
Coal	756	1,343	2,600	32,927	442,226	636,219	352,734	
Coke (e)	—	—	—	862	—	21,269	(a)	
Naphthalene	12	45	8	10	2	35	48	
Tar oils	208	49	—	56	(c) 746	(e) 118	83	
Fiji—								
Coal	11,202	20,150	21,997	21,498	25,828	9,750	18,659	
Coke	310	402	442	418	354	381	355	
Tar and bitumen	242	477	1,421	746	686	1,447	292	
New Guinea (e)—								
Coal and coke	(a)	(a)	(a)	(a)	478	336	1,866	
New Zealand—								
Coal	—	27,185	93,411	62,657	78,626	45,186	27,563	
Coke	2,674	3,239	2,982	2,633	4,263	2,750	1,431	
Tar	69	94	586	2,776	127	2	198	
Pitch	486	621	1,260	751	579	794	86	
Benzol, toluol, etc.	39	101	123	42	187	214	110	
Naphthalene (£ N.Z.)	(£32)	(£1,761)	(£2,508)	—	8	7	9	
North Borneo—								
Coal and coke	(a)	(a)	(a)	21	32	21	87	
Papua (e)—								
Coal, coke and charcoal	(a)	(a)	(a)	(a)	342	(£41,893)	(a)	
Solomon Islands (b)—								
Coal	—	—	—	50	8	1	516	
Sarawak—								
Coal and coke	(a)	—	260	1	10	11	11	
Tar	(a)	(a)	(a)	63	67	132	114	
Irish Republic—								
Anthracite	22,229	42,686	17,254	55,252	54,323	42,910	49,029	
Bituminous (d)	898,344	1,229,367	1,486,570	1,640,391	1,578,023	1,785,759	1,987,323	
Coke	74,849	74,557	31,132	24,199	23,463	40,455	24,897	
Tar and pitch	18,141	30,484	23,818	7,368	6,340	6,296	14,336	
Creosote, etc.	592	212	1,750	2,592	4,838	5,267	4,368	
Tar and bitumen mixture	713	16,317	26,572	36,390	19,488	21,327	26,421	
Benzol	5	9	20	23	47	40	27	
FOREIGN COUNTRIES								
Austria—								
Coal	(a)	1,866,083	1,333,157	3,034,767	4,277,651	4,215,494	4,110,296	
Brown coal			441,954	781,899	705,065	438,968	537,548	
Coke			107,921	212,449	359,378	252,588	290,082	
Briquettes			498,266	543,974	664,162	558,109	799,435	
Light coal-tar oils			(a)	(a)	(a)	62	778	1,299
Heavy coal-tar oils			(a)	(a)	(a)	3,061	3,275	1,531
Carbolic acid			(a)	(a)	(a)	390	787	546
Tar, pitch, etc.	(a)	(a)	(a)	(a)	4,012	6,113	10,945	
Belgium-Luxemburg E.U.—								
Coal	1,450,738	2,304,206	5,572,931	3,054,434	1,158,456	886,162	2,430,353	
do. coke	311,800	1,217,854	1,242,837	2,742,373	2,240,111	2,410,940	3,048,096	
do. briquettes	12,980	52,004	8,520	338	875	2,151	5,509	
Brown coal	230,605	389,005	(a)	4,712	2,345	67	1,171	
do. do. coke			(a)	99	(a)	5,170	7,362	
do. do. briquettes			171,137	203,629	207,761	189,091	242,938	
Tar			(a)	(a)	(a)	6,451	11,024	34,174
Naphthalene	(a)	(a)	(a)	373	1,092	(a)	4,144	
Asphalt	(a)	(a)	(a)	(a)	3,987	5,741	5,182	

(a) Information not available.

(b) Years ended March 31 following that stated.

(c) Excess of re-exports.

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

(e) Years ended June 30 of that stated.

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

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Bulgaria—							
Coal	816	65	} (a)	} (a)	} (a)	} (a)	} (a)
Coke	2	4,590					
Benzol	20	79					
Carbolic acid	—	78					
Naphthalene	132	236					
Creosote, etc.	—	—					
Czechoslovakia—							
Coal	} (a)	106,543	945,699	(c)1,722,477	} (a)	} (a)	} (a)
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			
Denmark—							
Coal	1,100,005	2,522,333	3,379,989	2,685,293	3,052,421	3,941,613	4,478,486
Brown coal	22,097	—	—	—	—	—	15
Coke	163,865	1,149,402	626,788	790,244	1,274,402	1,489,984	1,037,681
Briquettes	2,857	—	—	—	—	37,460	20,896
Brown coal briquettes	47,092	62,094	249,511	2,520	233,479	256,164	104,503
Tar	674	5	—	514	—	15	10
Pitch	181	974	2	89	28	142	264
Carbolineum	93	46	3	2	—	(a)	(a)
Benzol	434	2,674	1,074	637	625	1,096	977
Toluol	94	2,121	785	830	915	1,374	1,090
Carbolic acid	15	240	178	268	233	85	368
Finland (total imports)—							
Anthracite	—	8,957	1,075	2,492	4,600	1,906	46,378
Other coal	71,985	676,776	1,278,521	1,968,346	929,867	1,435,277	1,959,906
Coke	37,555	237,415	195,707	405,989	246,569	461,645	339,783
Tar	270	156	2,382	1,541	1,440	1,284	1,084
Carbolic acid, creosote and cresol	51	310	1,891	1,543	2,778	2,844	4,158
Naphthalene	—	59	17	17	83	140	51
Benzol	98	261	763	1	293	391	192
Carbolineum	—	15	271	323	212	455	464
France—							
Anthracite	115,013	431,498	512,353	1,032,610	1,162,367	559,958	1,347,206
Bituminous	3,044,552	8,428,770	12,208,208	12,303,462	12,983,962	6,814,248	8,471,703
Lignite	—	7,296	33,206	40,848	2,886	—	302
Coke	358,466	1,183,962	1,895,342	3,075,239	3,918,850	2,604,172	3,502,508
Coal briquettes	131,465	26,909	3,659	23,061	2,686	246	108,158
Brown-coal briquettes	174,481	608,524	227,368	261,321	285,856	378,057	448,153
Tar and pitch	156,262	437,671	519,193	454,170	417,118	472,441	393,126
Naphthalene	1,954	274	—	709	11	—	68
Carbolic acid, etc.	—	251	49	153	425	694	634
Anthracene	—	1,588	380	934	1,112	321	176
Benzol, etc.	2,098	15,554	14,541	7,533	2,375	809	1,592
Heavy coal-tar oils	1,551	1,884	3,449	3,148	6,255	10,494	1,187
Germany (Federal)—							
Coal	(a)	(a)	(a)	1,140,531	2,103,064	4,002,434	9,498,417
Brown coal	(a)	(a)	(a)	785,480	947,129	1,005,889	486,472
Coke	(a)	(a)	(a)	47,486	69,270	235,000	200,992
Coal briquettes	} (a)	} (a)	} (a)	} (a)	483	95	—
Brown-coal briquettes					—	5,160	2,676
Tar and pitch					—	161	11,750
Naphthalene					—	41	5,905
Carbolic acid					679	2,211	2,225
Cresol					4	393	258
Light coal-tar oils, etc.					118	2,286	10,435
Heavy coal-tar oils, etc.	22	—	5,745				

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

(c) January to October only.

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

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951	
FOREIGN COUNTRIES (Cont.)								
Greece—								
Coal	146,287	174,153	167,748	243,521	285,363	279,624	376,040	
Coke	528	3,359	7,053	7,444	12,870	17,436	12,823	
Naphthalene	—	943	413	848	842	581	835	
Pitch	204	174	235	330	355	845	(a)	
Benzol	—	24	2	37	134	77	66	
Tar	(a)	(a)	(a)	(a)	8,229	845	374	
Hungary—								
Coal	(a)	116,875	129,059	} 773,000	(a)	(a)	(a)	
Coke	(a)	203,434	415,902					
Iceland—								
Coal	114,975	93,959	164,717	125,622	96,630	93,362	67,327	
Coke	30	135	73	790	562	892	708	
Tar	260	906	522	268	59	64	97	
Carbolineum	7	—	5	—	—	—	—	
Italy—								
Anthracite	} (a)	} (a)	337,513	44,093	150,015	305,036	465,493	
Bituminous			8,153,963	8,088,874	8,273,364	7,773,243	9,886,991	
Lignite			189,495	77,629	156,600	91,927	60,786	
Coke			222,970	33,413	12,436	7,003	43,839	
Briquettes			663	85	2,121	(c) 16,362	92,356	
Tar and tar oils			22,188	5,789	13,175	4,314	400	
Benzol			18,293	25,593	5,678	1,383	10,369	
Toluol and xylol			3,139	2,605	3,381	7,854	6,401	
Naphthalene			5,167	3,342	6,247	2,801	5,211	
Netherlands—								
Coal (b)	} (a)	} (a)	2,901,587	3,718,189	3,325,545	3,917,395	4,367,030	4,991,478
Coke			8,706	1,257	9	6,798	161,553	181,864
Briquettes			16,595	10,153	38,380	24,582	128,868	219,839
Brown-coal briquettes			316,660	192,020	232,272	194,640	218,868	236,349
Tar			3,710	2,961	6,640	5,899	12,179	8,162
Creosote			6	36	25	5	3,990	2,206
Naphthalene			—	—	70	40	1,968	1,056
Carbolic acid			286	326	324	124	905	1,640
Benzol			—	—	68	30	2,524	97
Toluol and xylol			73	687	426	2,124	1,211	398
Carbolineum			1,347	357	21	132	411	404
Solvent naphtha			6	1	83	58	225	443
Asphalt			255	63	763	879	1,088	1,147
Norway—								
Coal	990,857	1,481,680	2,033,691	1,481,437	1,384,675	1,280,793	1,798,884	
Coke	—	55,694	10,087	228,332	172,010	388,125	190,480	
Tar and pitch, etc.	2,224	8,826	10,988	9,769	12,461	9,173	(a)	
Pitch coke	7,166	11,283	18,384	21,327	28,012	14,166	1,194	
Creosote, etc.	474	6,088	7,946	7,960	9,227	7,733	10,347	
Portugal—								
Anthracite	18,342	38,767	40,903	20,267	13,603	26,295	21,870	
Other coal	463,208	527,197	912,816	755,104	856,901	743,197	631,995	
Coke	5,795	35,382	17,644	42,881	21,454	23,766	36,990	
Briquettes	—	2,053	(a)	851	1,306	11,100	9,716	
Tar and pitch	3,022	8,975	6,446	6,816	4,363	7,599	9,746	
Carbolic acid	29	2	27	27	39	6	(a)	
Naphthalene	31	236	122	71	136	173	76	

(a) Information not available.

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

Year	long tons
1945	(a)
1946	181,014
1947	232,451
1948	104,903
1949	111,998
1950	78,990
1951	62,051

(c) July to December only.

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

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Spain—							
Anthracite	—	—	—	98	113	—	—
Bituminous	52,523	72,149	17,004	467,237	898,993	571,667	325,133
Coke	464	1,764	—	31,963	83,140	143,203	82,427
Briquettes	—	—	6	3,346	944	—	13,937
Tar and pitch	8,452	45,290	22,417	63,076	68,073	39,208	69,751
Benzol, toluol, xylol, etc.	—	668	3,002	1,230	62	865	1,338
Sweden—							
Anthracite	—	—	517,528	33,517	32,288	48,045	} 5,235,978
Other coal	267,943	2,404,772	3,577,189	5,282,205	3,869,809	4,705,457	
Coke	88,021	995,335	889,523	1,590,353	1,953,920	2,272,754	2,476,263
Briquettes	745	58,262	636,222	211,467	5,274	23,617	596,429
Tar, pitch, etc.	725	3,228	7,613	13,587	4,619	2,998	1,649
Benzol, etc.	2,204	9,601	4,048	10,033	6,543	8,817	9,815
Carbolic acid, etc.	276	1,049	2,043	2,150	2,168	2,228	(a)
Naphthalene	(a)	(a)	(a)	(a)	1,430	2,169	(a)
Switzerland—							
Coal	207,730	1,079,362	1,695,169	1,761,207	1,325,390	1,760,585	2,342,328
Lignite	399	25,601	68,558	3,057	854	805	5,204
Coke	19,506	283,445	394,464	634,952	429,264	576,340	558,599
Briquettes	7,488	123,105	323,673	197,597	233,268	294,595	418,336
Tar and pitch	16,325	117,700	50,147	43,463	37,524	54,113	66,932
Creosote, etc.	378	4,663	1,760	2,528	1,465	1,091	3,141
Naphthalene, etc.	2,959	9,322	13,303	17,208	8,842	10,514	15,464
Yugoslavia—							
Anthracite	} (a)	(a)	(a)	(a)	(a)	40,671	53,057
Other coal						4,395	3,703
Coke						336,229	466,981
Coke dust						29,309	10,365
Benzol, toluol, etc.						1,860	2,240
Naphthalene						168	184
Algeria—							
Coal	216,311	707,727	565,796	382,926	353,808	383,028	360,666
Coke	2,424	3,378	2,337	3,783	948	4,660	—
Briquettes	6,868	15,953	8,787	17,138	1,067	13,143	3,520
Tar and pitch	2,953	7,212	5,105	6,693	2,104	9,913	6,289
Benzol, toluol, etc.	1	3	81	98	128	211	215
Naphthalene	—	174	13	27	95	48	56
Heavy oils	—	211	82	337	40	83	135
Angola—							
Coal	13,313	5,974	5,558	(a)	25,015	19,972	(a)
Coke	289	459	253	(a)	(a)	(a)	(a)
Tar and pitch	381	435	667	(a)	(a)	(a)	(a)
Belgian Congo—							
Coal	94,935	118,717	106,255	117,259	157,933	148,517	(a)
Coke	67,994	72,555	67,528	54,225	44,302	56,648	(a)
Briquettes	—	20,533	22,717	10,191	32,081	—	(a)
Tar	227	171	127	(a)	(a)	254	(a)
Cameroon (French)—							
Coal	149	4,953	10,726	18,073	26,641	7,921	14,670
Canary Islands—							
Coal (b)	126,442	111,839	186,794	94,127	106,356	63,363	72,928
Ceuta—							
Coal (b)	231,295	225,834	186,577	208,902	247,339	213,228	99,535
Egypt—							
Coal	257,658	191,964	267,009	251,910	257,329	143,840	(a)
Coke	4,915	2,802	1,508	13,184	7,068	7,869	(a)
Briquettes	—	—	—	24,690	52,353	24,296	(a)
Tar and pitch	1	26	116	31	59	(a)	(a)
Naphthalene	68	186	24	129	43	(a)	(a)
Coal-tar residues	—	44	4	256	900	(a)	(a)
French Equatorial Africa—							
Coal and briquettes	3,842	8,315	11,160	24,876	51,218	7,249	3,099

(a) Information not available.

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

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

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
French Somaliland—							
Coal	—	17,407	17,321	40,446	21,172	12,536	17,300
French Togoland—							
Coal and briquettes ..	4	4,343	31	2,100	—	(a)	(a)
French West Africa—							
Coal and briquettes (b)	102,317	112,665	99,167	78,709	110,307	102,096	159,929
Madagascar—							
Coal	31,074	36,370	30,779	27,463	24,818	60,644	25,657
Melilla—							
C. al	18,007	18,769	16,797	12,355	9,854	17,764	15,694
Morocco (French)—							
Coal	113,445	106,702	159,191	179,500	104,800	89,600	77,900
Coke	1,782	1,083	2,898	(a)	(a)	(a)	(a)
Briquettes	—	—	—	(a)	(a)	(a)	(a)
Tar	52	192	81	(a)	(a)	(a)	(a)
Morocco (Spanish)—							
Anthracite	3,970	2,593	1,533	(a)	(a)	(a)	(a)
Other coal	(a)	3,778	5,630	(a)	(a)	(a)	(a)
Coke	(a)	65	23	(a)	(a)	(a)	(a)
Tar	23	15	13	(a)	(a)	(a)	(a)
Mozambique—							
Coal	160,623	169,077	180,861	180,457	191,844	216,598	209,957
Coke	125	92	74	48	167	381	512
Tar, pitch and asphalt ..	355	2,337	673	961	852	1,388	2,296
Naphthalene	7	9	11	4	2	33	6
Reunion—							
Coal	1,210	3,595	10,928	11,887	12,750	(a)	(a)
Tunis—							
Coal	204,605	282,299	273,700	189,601	204,369	157,337	(a)
Coke	382	48	2,383	4,686	(a)	(a)	(a)
Briquettes	—	—	17	—	(a)	(a)	(a)
Tar	2,172	1	213	757	(a)	(a)	(a)
Costa Rica (c)—							
Coal	94	87	122	2,951	100	(a)	(a)
Cuba (c)—							
Coal	278,099	107,865	(a)	29,040	24,305	(a)	(a)
Coke	13,391	(a)	(a)	16,993	18,622	(a)	(a)
Creosote oil	147	(a)	(a)	(a)	(a)	(a)	(a)
Tar	185	(a)	(a)	(a)	(a)	(a)	(a)
Benzol	56	(a)	(a)	(a)	(a)	(a)	(a)
Dominican Republic (c)—							
Coal, coke, briquettes, etc.	930	(a)	3,808	5,400	454	151	(a)
French West Indies—							
Guadeloupe—							
Coal	34	2,190	5,336	3,615	1,379	59	2,358
Martinique—							
Coal	2,947	6,208	6,608	3,764	8,108	} 5,703	2,559
Coke	1	854	1	1	1		
Guatemala—							
Coal	(a)	(a)	1,152	82	120	44	136
Coke	(a)	(a)	154	330	638	1,124	162
Haiti—							
Coal	(d) 61	(d) 5	(d) 5	(a)	(a)	(a)	(a)

(a) Information not available.

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

(c) Total imports.

(d) Years ended September 30 of that stated.

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

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Mexico—							
Coal	990	756	742	1,349	(a)	(a)	(a)
Coke	2,686	2,323	11,153	32,947	77,491	(a)	(a)
Tar and pitch	96	56	30	17	(a)	(a)	(a)
Benzol	38	181	192	176	(a)	(a)	(a)
Creosote	2,258	245	1,491	4,483	(a)	(a)	(a)
Nicaragua (total imports)—							
Coal and coke	60	7	58	(a)	(a)	(a)	(a)
St. Pierre and Miquelon—							
Coal	6,973	11,614	12,760	18,221	12,098	11,772	6,606
United States—							
Anthracite	133	8,532	9,241	844	—	16,329	23,939
Bituminous	324,766	289,180	236,234	213,885	222,793	227,641	193,138
Lignite	11,921	7,103	2,268	1,066	1,196	1,999	1,282
Slack and culm	70,400	91,824	20,553	45,171	57,243	79,919	65,879
Coke	46,396	46,596	92,940	144,107	247,774	390,699	144,321
Briquettes	645	583	346	294	326	718	110
Tar and pitch	1,955	7,131	5,466	9,918	8,223	13,762	5,839
Benzol	108,792	8,137	3,516	7,834	9,918	79,218	228,465
Cresylic acid	6,106	10,300	9,936	11,567	4,857	13,580	15,562
Creosote oil	8,907	9,294	136,898	164,664	132,520	165,274	196,427
Naphthalene	310	112	1,054	16,778	22,359	50,101	34,359
Carbolic acid	—	24	1	11	69	69	2
Argentina—							
Coal	755,745	1,126,294	1,195,427	2,142,842	1,319,650	1,424,232	2,167,638
Coke	30,513	7,450	29,527	61,165	38,753	19,895	50,195
Briquettes	—	—	7,077	15,112	—	—	—
Tar and pitch	329	316	—	—	—	—	—
Naphthalene	429	1,867	(a)	(a)	(a)	(a)	(a)
Carbolic acid	1,188	638	(a)	(a)	(a)	(a)	(a)
Creolin	—	1	(a)	(a)	(a)	(a)	(a)
Heavy coal-tar oils	1,824	758	(a)	(a)	(a)	(a)	(a)
Bolivia—							
Coal	(a)	21,686	8,268	6,888	(a)	(a)	(a)
Brazil (total imports)—							
Coal	687,250	1,021,118	1,506,929	1,043,406	755,257	1,065,622	989,493
Coke	17,240	23,111	40,963	22,457	22,030	35,835	(a)
Briquettes	—	9,961	—	—	24,349	(a)	(a)
Carbolic acid	245	75	100	163	327	(a)	(a)
Benzol, toluol, etc.	(a)	(a)	448	234	512	(a)	(a)
Naphthalene	6	21	118	243	181	(a)	(a)
Chile—							
Anthracite	93	62	8,811	2,273	2,650	} 76,768	193,889
Other coal	452	3,405	31,228	90,248	(a)		
Coke	5,214	7,070	5,543	7,935	7,312	5,905	1,960
Naphthalene	62	24	(a)	70	63	(a)	(a)
Carbolic acid and cresol	1,131	993	556	1,569	1,428	474	(a)
Creolin, etc.	109	156	(a)	(a)	(a)	(a)	(a)
Colombia—							
Coal	21	57	(a)	(a)	(a)	(a)	(a)
Tar and pitch	79	160	(a)	(a)	(a)	(a)	(a)
Naphthalene	8	15	(a)	(a)	(a)	(a)	(a)
Cresol, creolin, etc.	60	19	(a)	(a)	(a)	(a)	(a)
Dutch Guiana—							
Coal	509	1,970	2,786	4,276	(a)	(a)	(a)
French Guiana—							
Coal	345	24	54	10	(a)	—	(a)

(a) Information not available.

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

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951						
FOREIGN COUNTRIES (Cont.)													
Peru—													
Coal	701	370	305	(a)	(a)	210	(a)						
Coke	1,363	890	714	(a)	(a)	461	(a)						
Tar	18	18	(a)	(a)	(a)	(a)	(a)						
Naphthalene	8	13	(a)	(a)	(a)	—	(a)						
Uruguay—													
Coal	278,148	149,827	103,943	112,732	109,021	126,030	(a)						
Coke	2,976	5,294	6,067	5,602	4,227	847	(a)						
Naphthalene	(a)	(a)	(a)	95	63	25	(a)						
Venezuela—													
Coal	925	1,040	940	756	(a)	(a)	(a)						
Naphthalene	8	6	19	17	(a)	(a)	(a)						
China—													
Coal	199	71,951	212,029	135,974	(a)	(a)	(a)						
Coke	(a)	1,053	4,507	1,183	(a)	(a)	(a)						
Tar and pitch	(a)	343	287	107	(a)	(a)	(a)						
French Indo-China—													
Coal	(a)	(a)	7,408	10,244	9,488	11,490	10,457						
Iran (total imports) (b)—													
Coal, coke and peat	(a)	2	1	—	—	—	(a)						
Iraq—													
Coal	10	} (a)	(a)	(a)	(a)	(a)	(a)						
Coke	107												
Tar and pitch	27												
Israel—													
Anthracite	} (e)	(e)	(e)	(e)	} 20,001	13,500	(a)						
Other coal								} (e)	(e)	(e)	} 4,766	7,920	(a)
Coke .. .. .														} (e)	(e)	(e)	} 1,033	12,319	(a)
Japan (total imports)—													
Coal	(d) 307,072	—	35,431	1,169,237	1,677,088	807,843	1,904,355						
Korea (total imports)—													
Coal	(a)	(a)	(c) 627,960	963,481	(a)	(a)	(a)						
Portuguese India—													
Coal	6,178	5,640	25,549	4,296	2,779	(a)	(a)						
Coke	—	1	9	61	153	(a)	(a)						
Syria and Lebanon—													
Anthracite	34,472	24,874	} (a)	(a)	(a)	(a)	(a)						
Other coal	—	—											
Coke	14	1											
Tar	—	1											
Turkey—													
Coal	3,470	218	—	35	—	20	3						
Cresol and naphthalene	342	166	495	169	40	122	44						
French Oceania—													
Coal	5,311	3,045	6,436	2,907	3,852	5,941	3,410						
New Caledonia—													
Coal	113,747	53,041	35,670	28,079	125,541	67,481	87,197						

(a) Information not available.

(b) Years ended March 20 following year stated.

(c) Exports from Japan to Korea.

(d) Including coke.

(e) See "Palestine" under British Countries.

COBALT

PRODUCTION OF COBALT

(In terms of metal)

(Cwt.)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Northern Rhodesia ..	13,335	9,348	7,627	7,759	10,237	13,177	13,985
Canada (b)	974	660	5,113 (c)	13,793	5,527	5,213	8,457
Australia (d)	184	203	162	198	181	208	165
FOREIGN COUNTRIES							
Finland	1,653	1,988	2,008	—	—	—	—
Italy	8	—	—	—	—	—	—
Sweden	183	—	—	—	—	—	—
Belgian Congo	55,200	42,400	69,000	84,600	86,670	101,334	112,494
Morocco (French) ..	1,929	4,720	7,280	5,252	4,901	8,346	14,251
Mexico	—	—	—	—	—	—	35
United States	9,818	4,628	5,762	6,138	4,658	7,226	8,059
Chile	28	—	—	(a)	(a)	(a)	(a)
TOTAL	83,312	63,947	96,952	117,740	112,174	135,500	157,500

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

(a) Information not available.

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

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

(d) Estimated cobalt content of cobalt oxide.

EXPORTS OF COBALT, ETC.

(Domestic Produce)

(Cwt.)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Cobalt and cobalt alloys	348	1,435	698	606	751	602	849
Cobalt oxide	1,043	1,829	1,087	951	882	2,450	421
Other compounds ..	(a)	(a)	5,967	6,917	9,683	12,376	7,940
Northern Rhodesia—							
Cobalt alloy	34,268	26,125	18,196	21,214	28,268	35,750	33,946
Canada—							
Cobalt ore (Co content)	580	429	797	7,777	440	149	315
Cobalt	5,208	4,558	360	280	107	—	1,717
Cobalt alloys	2,866	997	533	792	305	9	7
Cobalt oxides and salts	4,960	4,072	7,477	7,829	5,273	3,466	5,888
Australia—							
Cobalt	(a)	(a)	(c) 851	—	80	—	—
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.							
Cobalt	(b)	(b)	(b)	(b)	(b)	(b)	(b)
Finland—							
Cobalt ore	37	4	232	—	—	2,479	80
Cobalt	1,516	2,136	682	98	—	—	—
Cobalt oxide	66	38	—	217	—	—	—
France—							
Cobalt salts	—	12	25	(d) 4	(d) 12	(d) 4	(d) 169
Sweden—							
Cobalt	2	—	98	—	—	—	(a)
Belgian Congo—							
Cobalt	} 129,390	93,736	160,662	37,277	37,650	45,952	51,295
Cobalt-copper ingots ..				123,833	109,778	130,608	139,813
Morocco (French)—							
Cobalt ore	16,732	62,989	31,495	106,294	35,628	62,596	131,687
United States—							
Cobalt ore	—	13	—	1,203	—	—	—
Cobalt alloys and scrap..	17	141	5	435	1,472	1,422	92
Cobalt salts	741	(a)	(a)	(a)	(a)	(a)	(a)
Chile—							
Cobalt ore	—	—	(a)	(a)	(a)	(a)	(a)
Cobalt salts	4	11	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

(b) Exports of cobalt metal are not separately recorded, but imports into the United States from Belgium were as follows (cwt.):—1945—4,159; 1946—15,049; 1947—24,339; 1948—15,399; 1949—19,470; 1950—24,595; 1951—27,570.

(c) Year ended June 30 of that stated.

(d) Oxide only.

IMPORTS OF COBALT, ETC.

(Less Re-exports)

(Cwt.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Rondels, pellets and squares	3,906	5,179	6,341	8,688	6,705	5,836	5,587
Other kinds, including alloys	13,281	9,197	18,021	20,082	24,419	30,117	25,507
Cobalt oxide	3,279	3,365	4,419	7,177	5,635	5,111	8,305
Other compounds ..	(a)	(a)	2,516	2,734	688	2	453
Canada—							
Ore	21,338	10,446	—	7,572	727	34,933	32,927
Cobalt oxide	144	145	6	1	9	231	—
Australia—							
Cobalt	(a)	(a)	(a)	480	322	290	(a)
Cobalt salts	(c) 12	(c) 396	(c) 394	(c) 592	(c) 853	800	640
FOREIGN COUNTRIES							
Czechoslovakia—							
Zaffre and smalt ..	(a)	522	423	(b) 108	(a)	(a)	(a)
France—							
Cobalt ore	10,669	13,862	4,518	22,643	20,286	30,756	72,810
Matte and speiss ..	—	3,455	4,287	(a)	(a)	(a)	(a)
Ingots	606	2,447	2,051	(a)	(a)	(a)	(a)
Cobalt oxide, including zaffre and smalt ..	3	102	10	116	22	297	167
Cobalt salts	—	285	709	(a)	(a)	(a)	(a)
Italy—							
Metal and alloys, crude and scrap	(a)	(a)	(a)	(a)	(a)	(f) 2,106	423
Cobalt oxide	—	344	356	226	691	(e) 191	(a)
Sweden—							
Cobalt	284	1,567	1,780	1,630	2,543	2,067	(a)
Mexico—							
Cobalt	—	2	(a)	(a)	(a)	(a)	(a)
United States—							
Cobalt ore (d)	7,678	15,685	10,910	107,760	32,466	30,734	37,682
Co content	974	4,585	2,374	22,769	14,579	17,081	16,066
Cobalt metal	8,451	17,282	68,602	47,182	49,896	60,240	75,856
Cobalt oxide	1,077	9,596	7,281	6,922	3,217	8,368	3,898
Cobalt salts	2	3	5	12	3	42	28
Argentina—							
Cobalt	27	23	(a)	(a)	(a)	(a)	(a)
Brazil—							
Cobalt oxide	64	130	180	78	235	(a)	(a)
China—							
Cobalt oxide	(a)	1,108	785	(a)	(a)	(a)	(a)
Japan—							
Cobalt oxide	(a)	(a)	2,775	(a)	(a)	89	343
Turkey—							
Cobalt metal	(a)	(a)	30	—	7	—	—
Cobalt salts	—	58	60	1	—	—	4

(a) Information not available.

(b) January to October only.

(c) Years ended June 30 of that stated.

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

(e) January to July only.

(f) July to December only.

COPPER

PRODUCTION OF COPPER ORE

(In terms of metal)

(Long tons)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Great Britain	20	22	20	(a)	(a)	(a)	(a)
Kenya	—	—	—	—	—	—	100
Northern Rhodesia (d) ..	196,188	188,520	194,172	222,900	254,988	292,788	314,329
Southern Rhodesia	155	143	171	129	79	115	94
South West Africa	—	—	(c) 4,980	8,150	9,514	10,823	12,417
Tanganyika	—	—	—	—	—	41	171
Union of South Africa .. .	23,638	26,578	28,869	28,809	30,821	33,446	33,198
Canada (d)	212,015	164,257	201,663	214,939	} 235,229	235,901	241,503
Newfoundland	4,619	4,388	3,792	4,061		26,000	20,800	23,700
Cyprus (c)	180	6,000	15,000	14,900	6,440	7,180	7,580
India	6,550	6,500	6,350	6,460	6,440	7,180	7,580
Australia	24,520	17,755	13,123	12,368	13,462	14,905	16,607
New Zealand	—	60	—	—	75	—	19
TOTAL	468,000	414,000	468,000	513,000	577,000	616,000	650,000
FOREIGN COUNTRIES							
Austria	(a)	103	317	857	1,339	1,651	1,813
Finland (d)	15,808	13,980	15,356	18,089	18,422	15,203	18,018
France (d)	—	22	55	93	66	42	(a)
Germany (Federal) .. .	(a)	(f) 461	(f) 235	(f) 358	854	1,340	1,643
Italy	700	200	300	370	400	380	(a)
Norway	5,121	12,056	14,475	14,873	14,640	15,044	13,782
Portugal	1,600	1,800	2,100	2,500	2,900	2,585	2,963
Spain (g)	7,000	8,500	8,000	9,000	10,000	12,000	13,000
Sweden	14,690	15,119	12,936	14,601	16,016	15,846	14,200
U.S.S.R. (estimated) (b) ..	120,000	146,000	159,000	192,000	231,000	251,000	296,000
Yugoslavia	(g) 20,000	24,000	33,000	41,000	38,000	42,609	35,382
Angola	(a)	90	280	388	730	1,259	1,140
Belgian Congo (smelter) ..	157,691	141,613	148,458	153,025	139,166	173,142	188,927
Morocco (French)	382	60	40	433	354	20	28
Cuba	9,528	12,590	11,044	15,000	17,000	20,235	20,873
Mexico (d)	60,706	60,089	62,489	58,143	56,342	60,724	66,287
United States (d)	690,084	543,515	756,753	745,369	672,098	811,913	828,866
Bolivia (exports)	6,001	6,030	6,142	6,512	4,994	4,630	4,769
Chile (d)	462,756	345,336	419,931	437,922	365,233	357,028	373,729
Ecuador	3,764	2,046	91	333	698	518	(a)

(a) Information not available.

(b) Revised.

(c) Including ore sorted ex dumps.

(d) Amount estimated as recoverable.

(e) Estimated copper content of saleable pyrites plus the copper content of copper concentrates produced. The copper content of the latter was as follows (long tons): 1945—Nil; 1946—4,700; 1947—12,100; 1948—11,200; 1949—18,500; 1950—14,800; 1951—17,100.

(f) British Zone only.

(g) Estimated.

PRODUCTION OF COPPER ORE (Cont.)

Producing Country	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Peru	31,412	24,204	22,137	17,784	27,517	29,457	32,075
Japan	27,542	14,739	21,542	25,322	32,219	38,809	41,620
Korea (Southern)	1,230	144	127	65	28	(a)	(a)
Philippine Republic	(a)	—	2,462	3,300	6,896	10,220	12,505
Saudi Arabia	—	9	249	66	48	41	
Turkey (smelter)	9,692	9,891	9,921	10,806	11,105	11,515	12,889
TOTAL	1,650,000	1,396,000	1,710,000	1,770,000	1,670,000	1,875,000	1,980,000
WORLD'S TOTAL	2,120,000	1,806,000	2,180,000	2,280,000	2,250,000	2,490,000	2,630,000

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	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Northern Rhodesia ..	194,014	182,289	192,500	213,615	259,302	276,433	309,141
Union of South Africa ..	23,291	26,166	28,568	28,536	29,248	32,816	32,403
Canada (b)	195,295	149,043	177,159	190,015	200,377	206,465	210,746
India	6,000	6,311	5,931	5,863	6,390	6,614	7,083
Australia	20,498	22,659	19,505	11,389	9,858	13,509	12,483
TOTAL	439,000	386,500	423,700	449,400	505,200	535,800	571,500
FOREIGN COUNTRIES							
Austria (d)	1,134	—	488	2,109	3,735	5,284	6,348
Belgium	—	—	—	—	—	—	—
Finland	15,423	24,483	25,370	23,612	21,052	17,322	21,146
France	25	2	313	273	(a)	(a)	(a)
Germany (Federal) (f) ..	(a)	5,952	18,046	38,998	101,470	131,622	138,869
Italy	394	7	103	164	29	54	59
Norway	1,665	7,430	7,795	8,794	9,159	8,892	8,519
Portugal	168	81	2	—	—	—	19
Spain (e)	6,496	9,094	7,795	8,740	11,574	9,567	6,260
Sweden	17,960	14,242	14,032	16,909	14,132	16,247	14,700
U.S.S.R. (estimated) (c) ..	120,000	146,000	159,000	192,000	231,000	251,000	296,000
Yugoslavia	(g) 20,000	21,600	47,900	50,500	47,800	53,891	45,288
Angola	—	—	—	—	787	1,353	1,139
Belgian Congo	157,691	141,613	148,458	153,025	139,166	173,142	188,927
Mexico	52,445	51,544	54,945	51,136	53,454	55,311	54,028
United States (h)	771,778	582,876	843,476	826,295	767,525	900,472	925,569
Chile	455,409	353,294	402,698	418,897	345,197	340,004	354,412
Ecuador	3,764	2,046	—	—	—	—	—
Peru	25,146	19,286	17,542	11,637	20,785	22,860	22,473
China	1,160	672	1,591	(g) 1,000	(a)	(a)	(a)
Japan (i)	25,404	20,397	28,357	28,664	37,935	36,589	43,155
Korea	(j) 419	(j) 158	(j) 386	(j) 506	(j) 303	(a)	(a)
Turkey	9,692	9,891	9,921	10,806	11,105	11,515	12,889
TOTAL	1,686,000	1,411,000	1,788,000	1,844,000	1,818,000	2,037,000	2,142,000
WORLD'S TOTAL	2,125,000	1,798,000	2,212,000	2,294,000	2,323,000	2,573,000	2,714,000

(a) Information not available.

(b) Copper content of blister and anode copper.

(c) Revised.

(d) Includes secondary metal.

(e) Up to and including 1950, figures refer to black and blister copper and exclude electrolytic copper which is, in part, obtained from blister copper. Source: Centro Industrial de Vizcaya (U.N. Monthly Bull. of Stats.). In 1951 figures refer to blister copper only.

(f) Revised. Figures now exclude secondary metal from fire-refined scrap which was as follows (long tons): 1946—11,610; 1947—13,464; 1948—22,263; 1949—41,767; 1950—59,098; 1951—57,296.

(g) Estimated.

(h) In addition, secondary metal was recovered as follows (long tons): 1945—898,675; 1946—717,452; 1947—858,697; 1948—868,561; 1949—636,735; 1950—872,535; 1951—832,395.

(i) In addition, secondary metal was recovered as follows (long tons): 1945—14,173; 1946—2,504; 1947—7,878; 1948—24,818; 1949—34,936; 1950—46,805; 1951—46,356.

(j) Southern Korea only.

EXPORTS OF COPPER, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Ore, matte, etc.	—	56	—	—	143	(a)	(a)
Bars and ingots	5,990	19,217	20,215	21,247	32,113	23,470	3,174
Scrap	150	308	—	331	1,640	3,084	678
Plates, sheets, etc.	3,672	16,819	17,420	12,531	12,598	10,738	9,255
Rods and wire	7,516	29,859	24,545	28,143	33,533	30,141	11,157
Tubes	1,633	4,597	4,409	5,742	6,089	4,769	4,848
Sulphate	44,317	52,152	25,241	24,524	38,267	54,839	40,104
Northern Rhodesia—							
Blister	113,768	124,448	128,416	156,656	180,765	217,481	186,886
Electrolytic	60,501	56,241	57,480	59,179	62,653	73,288	103,847
South West Africa—							
Copper-lead ore (Cu content) (b)	—	—	16,162 (ore)	6,322	9,486	10,515	11,272
Tanganyika—							
Ore	(£1,330)	—	—	—	—	9	—
Union of South Africa—							
Copper-gold concentrates	—	526	490	597	(f) 172	(f) 82	(f) 21
Copper matte	(a)	(a)	606	971	(f) 362	(f) 347	(f) 680
Ingots, bars, plates, etc.	23,781	25,257	28,088	22,918	29,662	33,988	29,178
Canada (c)—							
Ore, matte, etc. (Cu content)	17,227	15,739	25,977	25,496	33,087	28,839	32,904
Ingots, etc.	115,490	90,549	78,106	103,723	113,536	119,861	90,921
Scrap, slag, etc.	1,284	1,099	5,085	4,684	3,139	5,566	887
Rods, sheets and strips	6,501	14,023	17,579	24,972	27,727	13,627	11,088
Tubes	—	189	712	599	424	607	779
Wire (excl. insulated)	(£66,342)	(£147,337)	(£819,804)	(£265,564)	(£84,869)	(£444,133)	(£495,707)
Newfoundland (d)—							
Concentrates	17,944	17,631	16,604	14,580	(d)	(d)	(d)
Cyprus—							
Concentrates, cement copper and cupreous pyrites (Cu content)	—	70	12,481	15,486	23,558	22,933	22,451
Hong Kong (including re-exports)—							
Bars, sheets, tubes and wire (incl. alloyed)	(a)	160	77	770	3,587	5,821	237
India—							
Matte, etc.	7	2	188	23	68	74	164
Malaya (including re-exports)—							
Ingots, sheets, wire, etc.	a)	86	47	38	107	112	85
Australia—							
Ore, etc. (Cu content) (e)	1,669	66	179	930	285	455	(g) 610
Matte (e)	—	—	—	331	—	300	(a)
Blocks and ingots	—	6,840	407	32	6	1	12
Scrap	—	230	4	—	34	69	65
Bars, sheets, wire, etc.	135	1,004	477	62	54	120	69

(a) Information not available.

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

(c) Including Newfoundland from April 1, 1949.

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

(e) Years ended June 30 of that stated.

(f) Cu content.

(g) Calendar year.

EXPORTS OF COPPER, ETC. (Cont.)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES							
Austria—							
Ore	(a)	(a)	(a)	(a)	2,487	—	1,978
Rough copper	(a)	(a)	3	237	12	1,353	1,394
Scrap	(a)	(a)	15	15	65	468	32
Bars, sheets and wire	(a)	(a)	(a)	(a)	232	8	49
Sulphate	(a)	(a)	(a)	(a)	1,484	477	38
Belgium-Luxemburg E.U.—							
Ore	—	1	(a)	65	—	—	—
Rough copper	(a)	(a)	102,137	88,181	126,808	116,966	104,000
Scrap	(a)	(a)	(a)	6,945	5,819	8,452	2,812
Bars, sheets, wire, etc.	(a)	(a)	(a)	18,038	14,314	19,123	22,226
Sulphate	(a)	(a)	(a)	4,731	8,336	8,126	19,856
Bulgaria—							
Ore, matte, etc.	25,286	16,890	8,863	(a)	(a)	(a)	(a)
Rough copper and scrap	2	—	(a)	(a)	(a)	(a)	(a)
Sheets and rods	—	—	(a)	(a)	(a)	(a)	(a)
Czechoslovakia—							
Rough copper	(a)	—	—	(b) 1,508	(a)	(a)	(a)
Sheets, rods, wire, etc.	(a)	8	70	(b) 185	(a)	(a)	(a)
Sulphate	(a)	74	76	(b) 11	(a)	(a)	(a)
Denmark—							
Rough copper	499	298	—	5	28	123	378
Scrap and alloyed	221	71	36	174	1,557	2,028	1,534
Bars, sheets, wire, etc.	3	20	28	30	51	57	15
Finland—							
Ore	7,568	—	—	—	—	3	—
Rough copper and scrap	1,056	4,642	4,317	5,287	3,447	4,257	4,203
Sheets and wire	—	237	865	525	652	564	860
France—							
Ore, matte, etc.	116	2,297	19	—	—	—	—
Ingots, alloys, etc.	114	625	1,518	690	629	16,196	6,678
Scrap	2	109	114	(a)	(a)	(a)	(a)
Bars, sheets and wire	38	1,299	4,246	2,016	2,220	2,570	3,502
Sulphate	11	101	6,768	7,886	5,966	5,751	8,835
Germany (Federal)—							
Ore, including burnt cupreous pyrites	(a)	(a)	(a)	9,738	22,193	36,106	295
Rough copper	(a)	(a)	(a)	—	—	47	35,209
Coin and scrap	(a)	(a)	(a)	377	1,429	5,626	1,043
Bars, sheets, wire, etc.	(a)	(a)	(a)	—	—	—	4,997
Sulphate, including ferrous sulphate	(a)	(a)	(a)	—	274	1,278	692
Greece—							
Ore	—	—	—	—	—	1,526	—
Italy—							
Ore	—	—	97	—	19	3	668
Ingots and alloys	—	11,202	430	197	499	163	261
Scrap	—	198	4,827	1,050	136	19	2
Bars, sheets, wire, etc., and alloys	—	3,425	6,603	6,714	4,031	1,986	1,368
Netherlands—							
Ingots and bars	(a)	1,672	53	578	175	453	326
Scrap	(a)	1,659	2,175	1,951	2,125	15,205	15,701
Sheets, tubes and wire	(a)	110	644	575	313	234	175
Sulphate	(a)	—	2	—	—	28	92
Norway—							
Ore	3,660	187	227	588	6,125	6,289	11,259
Matte	2,105	12,800	14,494	12,054	12,598	16,147	13,571
Burnt cupreous pyrites	650	4,055	6,077	2,810	—	817	(a)
Rough and refined copper	344	6,514	6,191	7,939	7,050	8,910	6,433
Scrap, including alloyed	381	1,853	1,946	1,370	1,568	2,116	1,757

(a) Information not available.

(b) January to October only.

EXPORTS OF COPPER, ETC. (Cont.)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Portugal—							
Rough copper, sheets, etc.	52	11	7	24	14	23	23
Sulphate	—	10	21	32	83	113	153
Spain—							
Ore	(a)	(a)	(a)	(a)	3,175	—	—
Ingots, bars and alloyed	32	14	6	9	9	39	9
Sheets, tubes, wire and							
alloyed	46	105	74	679	505	36	32
Sulphate	196	898	363	296	352	185	432
Sweden—							
Rough copper	11	180	2,639	3,882	4,212	5,485	5,115
Scrap, including brass ..	6	79	108	9	131	1,940	551
Sheets, tubes, wire, etc.	955	7,818	10,112	10,694	9,945	14,506	12,137
Sulphate	21	2	—	—	1	1	67
Switzerland—							
Ore, filings and turnings	—	100	235	87	266	3,048	2,385
Bars, ingots, etc. ..	—	112	2	101	114	1,276	191
Scrap	—	20	110	10	308	844	162
Sheets, tubes, wire, etc. (b)	17	1,054	3,369	3,695	2,806	4,755	2,361
Yugoslavia—							
Concentrates						640	—
Blister						15,734	7,672
Electrolytic						492	4,782
Scrap						—	203
Algeria—							
Bars, sheets and wire ..	1	1	418	489	365	707	1,002
Scrap	33	263	656	56	395	1,196	226
Sulphate	—	—	—	—	—	—	6
Angola—							
Ore	524	205	—	1,076	207	(a)	(a)
Ingots	(a)	(a)	(a)	(a)	1,773	(a)	(a)
Belgian Congo—							
Copper-cobalt ingots (d)	6,470	4,687	8,033	6,192	5,489	6,530	6,991
Matte	28,309	17,981	9,749				
Ingots	52,845	86,739	68,026	154,911	149,024	164,246	181,025
Cathodes	79,133	49,486	78,700				
Egypt—							
Rough copper and scrap	—	2,032	2,578	22	137	—	(a)
Morocco (French)—							
Ore	699	905	—	(a)	1,781	(a)	404
Old and scrap	27	166	207	(a)	(a)	(a)	(a)
Cuba—							
Ore	31,268	34,800	33,919	46,817	40,057	77,026	67,200
Scrap	35	(a)	(a)	—	129	(a)	(a)
Mexico—							
Ore, concentrates, etc. ..	29,925	29,122	37,525	32,482	26,806	17,575	25,853
Rough copper	48,293	37,828	42,395	35,042	50,945	51,499	38,914
Cu content (c)	58,964	48,767	52,415	48,957	48,469	50,963	(a)
United States—							
Ores, matte blister, etc.							
(Cu content)	30	21	103	2,208	179	550	209
Refined ingots, etc. ..	43,360	46,990	132,500	127,319	123,060	129,073	119,022
Scrap	119	811	866	2,023	7,396	8,433	6,876
Sheets, rods, wire, etc. ..	21,846	9,498	16,654	19,329	19,328	15,771	8,103
Sulphate	31,221	36,916	30,376	37,621	28,319	26,918	38,508
Argentina—							
Ore	—	197	(a)	(a)	(a)	(a)	(a)
Ingots, sheets and scrap	—	1	(a)	(a)	(a)	(a)	(a)
Bolivia—							
Ore, etc. (Cu content) ..	6,001	6,030	6,142	6,512	4,994	4,630	4,769

(a) Information not available.

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

(b) Including alloys.

(d) Figures for the years 1945 to 1947 include, if any, exports of granulated cobalt.

EXPORTS OF COPPER, ETC. (Cont.)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Chile—							
Ores and concentrates ..	63,898	24,247	10,623	19,881	14,960	15,944	54,427
Precipitate	16	2	7	—	1	3	2
Ingots—							
Blister	192,086	135,987	152,919	193,102	171,350	178,830	183,751
Electrolytic	232,286	232,130	228,240	304,688	176,861	138,183	119,483
Bars and sheets	7,743	2,542	3,054	1,024	1,123	840	10,038
Sulphate	898	54	—	24	129	914	543
Ecuador—							
Concentrates	108	249	1,016	1,935	2,912	(a)	(a)
Blister	3,737	2,231	—	—	—	—	(a)
Peru—							
Ore (<i>Cu content</i>) ..	4,467	3,160	7,055	4,740	7,129	5,209	(a)
Matte, etc. (<i>do.</i>)..	314	189	512	258	330	191	(a)
Bars, etc. (<i>do.</i>)..	23,340	22,326	17,189	12,225	19,561	21,224	(a)
Precipitate (<i>do.</i>)..	—	—	649	213	294	137	(a)
Formosa—							
Ore (<i>Cu content</i>) ..	660	(a)	(a)	(a)	(a)	(a)	(a)
Japan—							
Ingots and blocks ..	(a)	} 390 }	1,968	—	20,586	48,802	(a)
Bars, rods and tubes ..	(a)		300	106	(a)	27,683	(a)
Plates, sheets and wire ..	(a)		(a)	(a)	(a)	6,332	(a)
Scrap	(a)		(a)	(a)	(a)	4,867	—
Philippine Republic—							
Ore	(b) 187	(a)	—	5,314	22,630	(a)	(a)
Syria and Lebanon—							
Ingots and scrap ..	277	811	(a)	(a)	(a)	(a)	(a)
Turkey—							
Ingots	332	23,196	5,346	1,224	7,116	6,216	7,413

(a) Information not available.

(b) Imports into Japan from Philippine Republic (*Cu content*).

IMPORTS OF COPPER, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Bars, ingots, etc.—							
Electrolytic	75,049	166,724	203,206	202,484	175,565	209,858	219,166
Other refined	68,666	14,749	24,445	21,994	14,688	1,516	5,532
Blister		103,304	134,040	132,247	120,449	105,998	130,931
Scrap		13	471	1,539	522	2,004	301	1,113
Plates, sheets, etc. .. .	4	2	97	85	39	22	12
Rods	—	6,602	13,557	12,653	12,335	1,106	—
Tubes	—	—	35	44	11	46	8
Wire	73	47	1,653	125	22	160	42
Anglo-Egyptian Sudan—							
Sulphate	1	20	142	110	96	53	(a)
Kenya (b)—							
Crude, refined, alloys and scrap	(a)	(a)	(a)	(a)	25	52	(d) 202
Bars, sheets, tubes and wire	4	34	56	337	202	289	79
Sulphate	(a)	(a)	(a)	—	4	22	92
Mauritius—							
Bars, rods, sheets, wire, etc. .. .	70	27	32	38	95	49	(d) 13
Southern Rhodesia—							
Ingots, bars and rods .. .	282	83	131	265	329	355	624
South West Africa—							
Bars, sheets, pipes, wire, etc. .. .	1	56	31	90	231	1	(a)
Tanganyika—							
Ore	—	22	1	(a)	(a)	(a)	(a)
Crude, refined, alloys and scrap	(a)	(a)	(a)	8	24	14	30
Sheets and wire	36	23	82	120	321	76	94
Sulphate	(a)	(a)	(a)	1	41	48	104
Uganda—							
Sheets and wire	(c)	(c)	(c)	(c)	74	19	12
Union of South Africa—							
Bars, ingots and slabs .. .	12,691	8,363	10,116	14,126	13,592	17,149	16,875
Plates, sheets and tubes .. .	568	1,230	1,521	3,290	2,104	1,198	(a)
Wire	324	705	1,537	4,712	1,412	687	(a)
Canada—							
Blocks, pigs and ingots .. .	—	—	1	1	8	109	1,349
Bars, sheets, wire, etc. .. .	1,685	2,492	3,300	2,666	1,794	1,917	2,384
Scrap	44	37	40	38	340	413	1,129
Sulphate	2,910	604	571	203	461	632	33
British West Indies (Barbados)—							
Bars and sheets	(£316)	(£1,751)	(£1,070)	(£2,522)	(£1,835)	(£1,926)	(£3,151)
Cyprus—							
Bars, sheets, wire, etc. .. .	23	52	127	247	81	199	180
Hong Kong (total imports)—							
Bars, sheets, tubes and wire incl. alloys	(a)	136	485	1,905	5,600	7,470	249
Sulphate	(a)	79	85	2	11	120	35
India—							
Ingots, cakes, blocks, etc. .. .	4,678	6,668	12,119	26,264	20,449	29,054	3,224
Scrap	100	2,449	2,890	6,883	4,780	6,564	1,032
Sheets, tubes, wire, etc. .. .	8,144	8,702	7,517	2,789	1,216	170	748
Sulphate	99	1,076	1,548	834	721	1,418	1,592
Copper (government stores)	2,567	1,488	195	550	(a)	(a)	(a)

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

IMPORTS OF COPPER, ETC. (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES (Cont.)							
Malaya (total imports)—							
Ingots, sheets, wire, etc.	(a)	684	770	1,393	1,032	972	1,029
Australia—							
Ore and concentrates ..	—	—	531	—	22	626	2
Matte	—	—	—	11	—	—	—
Blocks and ingots ..	8	156	1,311	9,264	23,033	13,948	20,142
Scrap	(a)	(c) 5	(c) 4	(c) 45	165	99	39
Bars, sheets, tubes, etc. . .	1,558	3,133	680	623	6,301	11,861	7,247
Sulphate (c)	20	20	2,055	518	226	1,541	(a)
New Zealand—							
Bars, sheets, pipes, etc. . .	1,399	1,311	1,704	2,502	2,045	3,370	3,162
Wire (& N.Z.)	(£38,949)	(£150,950)	(£252,111)	(a)	1,439	1,539	914
Sulphate	201	3	—	1	398	404	368
Irish Republic—							
Bars, sheets, wire, etc. . .	1,034	2,220	2,157	2,858	2,285	2,025	1,717
Sulphate	3,197	3,444	2,719	4,338	2,730	2,369	2,071
FOREIGN COUNTRIES							
Austria—							
Ore	(a)	(a)	(a)	(a)	(a)	8,547	—
Rough copper	(a)	(a)	226	1,426	3,808	4,396	4,658
Scrap	(a)	(a)	321	238	511	1,258	1,527
Bars, sheets, wire, etc. . .	(a)	(a)	26	411	3,227	2,179	3,700
Sulphate	(a)	(a)	866	1,001	—	—	76
Belgium-Luxemburg E.U.—							
Ore	332	3,212	(a)	13,388	5,222	5,540	6,699
Matte							
Rough copper	62,878	180,075	220,354	143,956	148,871	152,720	144,663
Scrap				10,922	9,948	18,652	20,660
Bars, sheets, wire, etc. . .				790	734	2,117	596
Sulphate	(a)	(a)	(a)	27	47	30	5
Bulgaria—							
Ore and matte	—	—					
Rough copper and scrap	284	677	(a)	(a)	(a)	(a)	(a)
Bars, sheet and wire ..	388	1,668					
Sulphate	1,047	7,243					
Czechoslovakia—							
Crude, refined and scrap	(a)	2,976	22,518	(b) 36,610	(a)	(a)	(a)
Sheets, rods, wire, etc. . .	(a)	879	2,994	(b) 327	(a)	(a)	(a)
Denmark—							
Rough copper	674	2,574	2,491	3,271	2,318	4,607	3,403
Scrap, including alloyed	338	672	1,338	1,649	473	735	491
Bars, sheets, wire, etc. . .	1,555	7,226	7,227	8,344	9,981	10,754	10,137
Sulphate	871	2,674	1,142	2,579	1,250	1,967	1,220
Finland (total imports)—							
Rough	—	1,130	2,789	1,072	112	395	218
Scrap	3	—	—	32	4	651	200
Bars, sheets, tubes and							
wire	678	276	376	2,992	1,427	2,038	1,805
Sulphate	—	—	1	1	—	10	71
France—							
Ore, matte, etc. . .	—	—	788	(a)	(a)	(a)	(a)
Rough copper							
Unrefined	7,814	19,854	12,068				
Refined	26,752	90,947	104,511	81,058	122,110	105,143	108,584
Alloyed	5,408	17,155	10,271	20,617	20,212	3,232	3,678
Scrap	88	4,801	31,716	(a)	(a)	(a)	(a)
Bars, sheets and wire ..	60	5,701	4,351	338	594	322	262
Sulphate	12,322	26,514	2,384	14,067	7,406	2,614	8,153

(a) Information not available.

(b) January to October only.

(c) Years ended June 30 of that stated.

IMPORTS OF COPPER, ETC. (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Germany (Federal)—							
Ore and burnt cupreous pyrites	(a)	(a)	(a)	590,485	745,340	1,031,613	1,080,319
Rough copper				14,970	42,036	59,128	62,147
Coin and scrap				183	3,733	11,668	20,848
Bars, sheets, wire, etc.				146	233	33	4,888
Sulphate, including ferrous sulphate				—	—	75	603
Greece—							
Rough copper and alloys	22	367	216	2,072	185	444	279
Sheets, tubes, alloys, etc.	2	85	479	359	393	577	146
Sulphate	4,847	825	176	24	492	3,705	5,172
Iceland—							
Bars, tubes, wire, etc.	186	678	(a)	(a)	201	103	88
Italy—							
Ore	(a)	(a)	(a)	—	13,179	4,483	—
Ingots and alloys	—	23,975	56,478	56,299	44,204	60,459	62,874
Scrap	1,053	1,384	963	2,835	5,051	11,408	9,063
Bars, sheets, wire, etc., and alloys	—	213	5,453	10,462	6,999	4791	4,717
Sulphate	(a)	(a)	6,124	693	12,494	10,993	1,965
Netherlands—							
Ingots and bars	(a)	9,600	9,485	15,823	21,574	19,440	14,746
Scrap		8	—	3	51	946	1,898
Sheets, tubes and wire		11,523	15,598	9,895	6,011	9,108	6,761
Sulphate		1,049	944	1,352	975	1,242	819
Norway—							
Rough copper	700	1,122	1,484	2,172	3,196	2,390	1,682
Copper-nickel matte	1,882	11,138	14,464	16,771	19,006	16,362	(a)
Bars, sheets, rods, etc.	40	314	1,009	1,216	1,088	1,773	(a)
Tubes (including brass) and wire	2,209	5,832	8,144	7,644	7,616	8,427	7,416
Sulphate	312	19	50	258	320	117	(a)
Portugal—							
Ore and concentrates	524	205	—	1,076	—	165	(a)
Ingots, wire, alloys, etc.	650	9,119	7,916	7,352	4,529	2,963	(c) 3,044
Sulphate	5,267	239	1,200	414	658	1,046	(c) 1,760
Spain—							
Ore	84	—	3,972	—	93	—	31
Precipitate and scrap (b)	153	225	2,092	4,606	2,968	1,466	2,722
Ingots and bars (b)	3,899	7,029	3,119	5,359	5,538	3,413	1,557
Sheets, tubes and wire (b)	34	170	459	1,040	127	65	55
Sulphate	5,629	2,981	11,242	1,365	6,978	8,192	10,788
Sweden—							
Ore	9,242	273	—	—	4,993	3,985	(a)
Rough copper	14,649	50,673	53,629	34,124	38,156	37,219	37,704
Scrap, including brass	314	2,277	4,047	6,319	5,091	4,165	7,543
Sheets, rods, wire, etc.	2,016	1,292	3,222	1,331	669	480	(a)
Sulphate	10	202	142	126	135	488	(a)
Switzerland—							
Ore, filings and turnings	363	1,253	977	1,426	318	343	416
Bars, ingots, etc. (b)	8,530	25,990	22,392	32,928	16,411	17,474	24,801
Scrap (b)	419	13,047	2,204	2,323	173	54	732
Sheets, tubes, wire, etc. (b)	1,086	7,615	5,994	9,210	3,287	5,697	13,677
Algeria—							
Ore	980	503	605	989	181	—	—
Rough copper	1,958	1,773	297	2,793	5,207	2,097	3,510
Scrap	44	109	10	37	—	—	—
Bars, sheets, wire, etc.	63	434	1,050	1,262	466	326	316
Sulphate	1,090	3,453	7,739	7,289	7,973	6,039	5,958

(a) Information not available.

(b) Including alloys.

(c) Excluding alloys.

IMPORTS OF COPPER, ETC. (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Angola—							
Bars, sheets, wire, etc. . .	17	66	50	(a)	(a)	(a)	(a)
Cameroon (French)—							
Sulphate	100	(a)	(a)	(a)	(a)	(a)	(a)
Egypt—							
Crude and scrap	268	(c) 512	(c) 3,866	558	2,043	3,300	(a)
Bars, sheets, tubes, etc.	320	914	(c) 513	549	1,323	1,976	(a)
Sulphate	213	135	1,121	1,207	1,864	2,795	(a)
Madagascar—							
Crude, sheets, wire, etc.	104	40	65	312	(a)	(a)	(a)
Morocco (French)—							
Ingots, sheets and wire (b)	581	299	498	(a)	(a)	(a)	(a)
Mozambique—							
Bars, sheets, wire and alloys	84	282	104	179	239	152	62
Tunis—							
Bars, sheets and wire (b)	300	450	672	425	548	551	(a)
Sulphate	156	60	—	—	(a)	(a)	(a)
Costa Rica—							
Bars, sheets and wire	57	68	73	28	40	(a)	(a)
Sulphate	3,036	5,193	5,112	8,274	6,828	(a)	(a)
Cuba (total imports)—							
Ingots and bars	281	(a)	(a)	268	247	(a)	177
Sheets, tubes and wire	561	(a)	(a)	2,585	1,421	(a)	(a)
Guatemala—							
Sheets and wire	(a)	(a)	(a)	315	238	408	205
Sulphate and carbonate	(a)	(a)	(a)	8,883	4,554	5,353	7,931
Honduras—							
Sulphate	7,276	8,201	(a)	(a)	(a)	(a)	(a)
Mexico—							
Ingots	4,941	6,295	1,483	488	(a)	(a)	(a)
Bars, sheets, alloys, etc.	1,675	1,812	(a)	(a)	(a)	(a)	1,835
Sulphate	2,491	2,679	(a)	(a)	(a)	(a)	(a)
United States—							
<i>Cu content of—</i>							
Ore and concentrates	51,729	28,265	72,301	55,353	113,862	84,791	87,643
Matte, precipitate, etc.	45,068	5,247	2,189	1,522	1,791	1,141	1,929
Blister	230,474	146,251	190,242	143,079	137,093	128,393	160,370
Refined ingots, bars and plates	471,735	136,275	134,253	223,337	246,671	288,373	219,780
Scrap	1,208	934	5,321	8,334	6,040	34,443	9,378
Sulphate	2	—	—	30	—	210	95
Argentina—							
Ingots, electrolytic	8,243	5,506	15,718	7,549	3,898	8,945	(a)
Tubes, including bronze	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Sulphate	4,689	2,904	2,591	1,446	1,097	2,900	(a)
Brazil (total imports)—							
Electrolytic	(a)	13,822	5,663	7,396	18,328	17,254	(a)
Rough	7,599	6,254	10,428	3,341	3,411	(a)	(a)
Plates and sheets	938	1,447	1,188	716	1,020	(a)	(a)
Tubes, pipes and wire	971	1,134	1,451	849	(a)	(a)	(a)
Sulphate	916	2,143	582	1,815	2,068	(a)	(a)
Chile—							
Bars, sheets and wire	—	—	1	2	(a)	(a)	(a)
Colombia—							
Ingots, sheets, etc.	826	516	(a)	(a)	209	375	(a)
Wire	2,027	689	(a)	(a)	(a)	(a)	(a)
Sulphate	363	405	(a)	(a)	1,366	4,573	(a)

(a) Information not available.

(b) Including alloys.

(c) Excess of re-exports.

IMPORTS OF COPPER, ETC. (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Peru—							
Bars, sheets, etc. ..	93	64	(a)	(a)	(a)	78	(a)
Sulphate	550	866	(a)	484	(a)	583	(a)
Uruguay—							
Bars and sheets	(a)	(a)	(a)	603	418	620	(a)
Venezuela—							
Sheets	243	162	207	240	(a)	(a)	(a)
Sulphate	25	37	70	(a)	(a)	(a)	(a)
China—							
Ingots and blocks ..	(a)	3,291	2,097	1,977	(a)	(a)	(a)
Bars, sheets, wire, rods and tubes	(a)	1,995	1,998	4,111	(a)	(a)	(a)
Iran (total imports) (b)—							
Ingots, bars, sheets and alloys	(a)	476	626	(a)	(a)	(a)	(a)
Iraq—							
Crude, sheets, pipes, etc.	57	(a)	(a)	(a)	(a)	(a)	(a)
Japan—							
Ore (Cu content) ..	853	(a)	(a)	(a)	(a)	(a)	(a)
Refined copper	(a)	(a)	190	—	(a)	(a)	(a)
Syria and Lebanon—							
Bars, sheets, tubes and wire	619	1,160	(a)	(a)	(a)	(a)	(a)
Turkey—							
Ingots, bars, and sheets	249	992	931	457	595	797	131
Sulphate	1,426	1,056	1,646	436	886	705	544

(a) Information not available.

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

DIAMONDS
PRODUCTION OF DIAMONDS*
(Metric carats)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Gold Coast (exports)—							
Gem diamonds	264,930	253,443	262,397	320,356	} 963,435	932,452	1,712,033
Bort	275,049	241,104	202,003	297,516			
Diamond sand	272,471	314,453	282,634	260,220			
Sierra Leone	503,999	559,232	605,554	465,698	494,119	655,485	475,759
Southern Rhodesia	—	—	—	—	6	—	40
South West Africa	152,629	165,150	179,554	200,691	280,501	504,604	502,983
Tanganyika	119,139	120,045	87,943	149,926	194,874	164,996	108,625
Union of South Africa	1,222,945	1,349,099	1,242,423	1,382,327	1,264,795	1,731,510	2,228,911
British Guiana	15,852	31,732	24,669	36,563	34,790	37,481	43,260
India	1,380	1,107	1,284	2,426	1,632	2,769	1,674
Australia (Industrial)	73	50	73	—	5	130	129
TOTAL	2,828,000	3,034,000	2,888,500	3,115,700	3,231,050	4,029,400	5,073,400
FOREIGN COUNTRIES							
Angola	803,887	806,962	799,210	795,509	769,981	538,867	734,324
Belgian Congo—							
Gem diamonds	458,696	367,099	540,690	550,814	550,423	543,342	537,652
Industrial do.	9,927,259	5,666,353	4,933,827	5,273,753	9,099,545	9,604,128	10,027,103
French Equatorial Africa	82,849	87,230	107,076	118,800	122,928	111,407	147,791
French West Africa	79,802	51,834	53,749	77,970	94,996	124,568	100,980
Brazil (b)	275,000	325,000	275,000	250,000	250,000	250,000	250,000
Venezuela	12,762	20,912	61,634	75,512	56,662	58,562	63,226
TOTAL	11,640,000	7,325,000	6,771,000	7,142,000	10,945,000	11,231,000	11,861,000
WORLD'S TOTAL	14,468,000	10,359,000	9,660,000	10,258,000	14,176,000	15,260,000	16,934,000

* For Values see next page.

(a) Information not available.

(b) Estimated.

PRODUCTION OF DIAMONDS*

(£ sterling)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Gold Coast (exports)—							
Gem diamonds	274,706	338,225	402,492	616,513	} 1,390,636	1,837,452	5,970,919
Bort	61,888	71,393	74,873	107,287			
Diamond sand	142,812	212,907	269,197	252,260			
Sierra Leone	598,750	806,412	1,211,108	1,106,032	1,173,532	1,884,519	1,367,805
Southern Rhodesia	—	—	—	—	26	—	200
South West Africa	1,277,980	1,694,500	1,920,869	2,369,104	3,512,700	6,631,551	9,586,261
Tanganyika	(b) 657,746	(b) 986,870	(b) 602,410	(b) 1,083,215	(b) 1,679,976	1,787,142	(b) 1,130,000
Union of South Africa	6,425,096	9,041,762	7,166,528	8,719,356	7,646,727	10,854,496	14,043,432
British Guiana	95,276	288,718	155,659	295,679	243,350	(b) 287,259	(b) 385,706
India	13,491	13,314	12,952	31,311	20,630	31,347	40,087
Australia	134	115	215	—	12	216	206
TOTAL	9,432,000	13,040,000	11,816,300	14,480,800	15,638,000	23,314,000	32,525,000
FOREIGN COUNTRIES							
Angola	(b) 1,000,000	1,622,000	1,891,000	1,864,000	2,524,000	2,138,000	3,422,000
Belgian Congo—							
Gem diamonds	} 61,488,000	(b) 2,051,000	(b) 1,369,000	617,455	631,454	(b) 766,000	782,000
Industrial do.				836,013	2,022,243	6,920,000	3,474,000
French Equatorial Africa	580,000	414,000	484,000	388,000	558,000	727,000	501,000
French West Africa	559,000	73,000	64,000	72,000	207,000	408,000	351,000
Brazil (estimated) (c)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Venezuela	54,993	71,648	189,836	119,000	566,000	586,000	(a)
TOTAL	4,600,000	5,300,000	5,000,000	4,900,000	7,509,000	8,545,000	10,130,000
WORLD'S TOTAL	14,032,000	18,340,000	16,820,000	19,380,000	23,150,000	31,860,000	42,660,000

* For Quantities in Metric Carats see previous page.

(a) Information not available.

(b) Estimated on export value.

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

EXPORTS OF DIAMONDS
(Domestic Produce)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Gold Coast—							
Gem diamonds .. Ct.	264,930	253,443	262,397	320,356	} 963,435 1,390,636	} 932,451 1,837,452	} 1,712,033 5,970,919
£	274,706	338,225	402,492	616,513			
Bort Ct.	275,049	241,104	202,003	297,516			
£	61,888	71,393	74,873	107,287			
Diamond sand .. Ct.	272,471	314,453	282,634	260,220			
£	142,812	212,907	269,197	252,260			
Sierra Leone .. Ct.	493,411	304,896	574,336	461,685	537,397	638,312	477,130
£	(a)	(a)	(a)	(a)	(a)	(a)	(a)
South West Africa (uncut) Ct.	249,474	153,452	189,072	208,907	251,611	455,288	379,753
£ (S.A.)	1,195,773	1,362,794	2,092,244	2,586,560	3,089,814	6,704,978	8,967,059
Tanganyika—							
Gem diamonds .. Ct.	45,833	62,782	45,833	61,213	83,757	} 70,597 746,370	} 8,588 88,953
£	515,798	787,621	487,065	790,939	1,289,856		
Industrial diamonds Ct.	67,818	56,664	46,397	86,691	107,947		
£	122,585	194,212	144,585	278,830	362,551		
Union of South Africa—							
Uncut Ct.	1,227,066	835,460	1,175,453	896,901	1,079,565	2,919,842	4,483,279
£ (S.A.)	5,950,724	6,107,776	7,278,894	6,211,448	5,891,819	12,014,868	15,379,386
Cut and polished Ct.	77,823	80,474	59,959	77,399	79,305	113,591	116,819
£ (S.A.)	4,789,002	5,959,192	3,657,407	5,205,515	4,859,699	8,118,920	9,832,098
Canada—							
Industrial diamonds and dust Ct.	(a)	(a)	10,000	—	—	—	—
£	(a)	(a)	2,743	—	—	—	—
British Guiana .. Ct.	17,683	29,360	26,553	34,808	35,234	37,033	39,684
£	107,016	266,509	168,409	276,047	247,747	284,038	353,849
Malaya (re-exports) £	—	209	842	9,921	12,398	44,506	55,591
Palestine—							
Polished Ct.	137,832	116,588	(a)	(a)	} (b)	} (b)	} (b)
£ P.	5,909,297	5,502,878	(a)	(a)			
Powder Ct.	(a)	1,100	(a)	(a)			
£ P.	(a)	165	(a)	(a)			
Australia—							
Gem diamonds (d) Ct.	(a)	(a)	(a)	(a)	617	—	(a)
£ (A.)	(a)	(a)	(a)	(a)	1,288	—	(a)
Industrial diamonds Ct.	(a)	(a)	(a)	(a)	—	13,930	11,970
£	(a)	(a)	(a)	(a)	—	13,235	21,822
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Cut and polished Ct.	128,493	294,745	330,210	264,426	244,166	436,414	519,363
£	4,993,862	12,826,484	11,575,092	9,381,362	7,475,482	15,860,101	20,058,474
Industrial diamonds Ct.	(a)	244,817	576,302	855,631	1,200,354	1,600,524	1,130,214
£	(a)	553,557	988,558	1,355,520	2,403,948	2,949,692	3,698,520
Czechoslovakia—							
Glaziers' diamonds £	(a)	460	649	(c) 10	(a)	(a)	(a)
France—							
Uncut £	(a)	(a)	(a)	—	—	325,781	483,690
Cut £	(a)	(a)	(a)	25,844	66,952	1,673,377	1,365,756
Netherlands—							
Unpolished .. £	—	220,000	(a)	(a)	(a)	(a)	(a)
Polished £	—	2,300,000	(a)	(a)	(a)	(a)	(a)
Industrial diamonds £	—	98,000	(a)	(a)	(a)	(a)	(a)
Angola Ct.	801,714	808,443	802,099	672,985	889,377	555,330	(a)
£	1,002,960	1,744,425	2,015,150	2,003,038	3,220,185	2,285,339	(a)

(a) Information not available.

(b) See "Israel" under Foreign Countries.

(c) January to October only.

(d) Years ended June 30 of that stated.

EXPORTS OF DIAMONDS (Cont.)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Belgian Congo—							
Gem diamonds .. Ct.	227,000	1,306,516	1,150,750	10,841,000	9,822,978	536,307	617,216
£	97,875	1,422,589	1,159,269				
Industrial diamonds Ct.	7,340,000	4,751,267	6,786,000	3,450,000	3,818,000	9,163,290	9,714,159
£	950,618	654,142	829,586				
French Equatorial Africa							
Ct.	60,000	142,000	140,476	124,801	132,897	135,600	147,461
£	35,000	550,000	511,418	(a)	608,000	456,000	500,600
French West Africa							
Ct.	73,000	95,000	29,908	34,870	(d) 85,140	(d) 128,960	112,580
£	60,000	167,000	29,584	37,056	62,170	76,122	(a)
Cuba—							
Cut £	(a)	(a)	(a)	(a)	(a)	(a)	(a)
United States—							
Uncut Ct.	(a)	(a)	(a)	(a)	4,602	4,234	712
£	(a)	(a)	(a)	(a)	37,851	32,054	10,498
Cut Ct.	(a)	(a)	(a)	(a)	5,238	6,388	6,050
£	(a)	(a)	(a)	(a)	243,852	696,679	685,886
Industrial diamonds Ct.	119,895	95,003	92,626	47,747	25,760	(a)	9,490
£	10,771	117,617	127,115	77,510	51,070	(a)	27,529
Dust Ct.	92,019	116,650	122,925	52,600	55,637	58,563	60,621
£	23,762	36,350	80,539	19,938	37,204	45,032	59,478
Brazil (b)—							
Uncut Ct.	49,010	113,815	133,075	59,275	37,225	(a)	(a)
£	271,339	986,274	510,736	208,969	(a)	(a)	(a)
Cut Ct.	42,900	12,645	10,325	1,155	420	(a)	(a)
£	1,229,919	597,608	184,226	40,432	(a)	(a)	(a)
Carbons Ct.	3,910	14,070	10,620	35,070	14,300	(a)	(a)
£	15,770	57,690	24,741	108,241	(a)	(a)	(a)
Venezuela Ct.	1,208	11,148	55,449	(a)	(a)	(a)	(a)
£	79,000	150,000	310,000	(a)	(a)	(a)	(a)
Israel—							
Polished Ct.	} (c)	(c)	(c)	(c)	75,668	119,510	(a)
£I					1,830,770	3,146,702	4,167,574
£I					32,481	(a)	(a)
Powder Ct.					33,768	(a)	(a)
£I							

(a) Information not available.

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

(c) See "Palestine" under British Countries.

(d) Revised.

IMPORTS OF DIAMONDS

(Less Re-exports)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom (b)	Ct. 11,231,178	9,307,118	8,769,070	13,833,486	13,542,619	14,780,625	17,144,539
	£ 10,892,848	12,988,187	15,114,602	15,685,761	17,785,060	28,293,792	37,097,275
Kenya	Ct. (a)	(a)	(a)	60	73	77	357
	£ (a)	(a)	(a)	547	3,547	1,899	7,468
Northern Rhodesia— Uncut	Ct. 19,371	27,068	10,732	301	1,800	500	200
	£ 14,226	20,480	9,890	242	1,689	550	270
Union of South Africa— Rough diamonds	Ct. 279,810	3,202,027	1,228,376	(d) 1,248,627	6,771,247	4,846,796	(g) 12,996,707
	£ (S.A.) 23,384	987,383	62,751	(d) 678,237	1,594,365	(h) 2,074,346	(g) 6,065,139
Cut and polished	Ct. —	519	1,345	999	96	2	(a)
	£ (S.A.) —	19,985	17,629	36,365	2,931	49	(a)
Canada— Unset	Ct. (a)	(a)	14,954	37,392	44,443	44,297	40,624
	£ 741,442	1,439,589	699,739	1,272,390	1,592,288	2,280,063	2,296,503
Dust, bort, etc. ..	Ct. (a)	(a)	100,732	233,188	261,769	531,561	577,838
	£ 446,135	943,976	265,820	358,569	437,051	944,738	1,311,390
Bermuda	£ 2,279	2,417	—	—	—	(a)	(a)
Ceylon	Ct. —	—	—	334	342	1,140	1,446
	£ —	—	—	15,953	19,676	67,056	98,215
India	£ 1,508,648	1,691,369	2,409,045	562,345	325,630	893	—
Malaya (total imports)	£ (a)	—	20,484	10,496	37,108	36,916	4,886
Palestine—							
Rough diamonds	Ct. 625,123	499,765	(a)	(a)	}	(c)	(c)
	£ P. 2,810,696	3,269,258	(a)	(a)			
Polished do. ..	Ct. 3,958	532	(a)	(a)			
	£ P. 310,670	50,130	(a)	(a)			
Powder	Ct. 146,204	103,276	(a)	(a)			
	£ P. 26,636	28,141	(a)	(a)			
Australia—							
Industrial diamonds	Ct. (a)	(a)	(e) 101,577	(e) 247,344	190,694	208,518	195,994
	£A (e) 27,111	(e) 96,025	(e) 108,034	(e) 226,348	319,558	459,591	444,470
Other diamonds	Ct. (a)	(a)	(e) 11,277	(e) 78,184	(e) (f) 24,722	96,116	67,504
	£A (e) 450	(e) 296,833	(e) 460,516	(e) 613,818	(e) (f) 745,647	1,124,158	1,245,527
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Cut diamonds ..	Ct. —	—	12,614	2,374	(a)	31,441	26,461
	£ —	—	463,099	57,255	(a)	1,408,852	1,297,388
Rough diamonds	Ct. 875,926	2,051,738	1,579,037	1,332,612	1,472,603	2,782,712	2,726,285
	£ 3,745,503	11,474,371	7,157,717	7,943,656	6,213,765	16,752,013	20,481,542
Industrial diamonds	Ct. 283,097	518,390	223,707	390,682	243,439	514,669	863,389
	£ 43,901	104,596	90,426	149,218	297,750	445,805	855,729
Czechoslovakia—							
Glaziers' diamonds	£ (a)	89	1,488	—	(a)	(a)	(a)

(a) Information not available.

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

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

(c) See "Israel" under Foreign Countries.

(d) Excess of re-exports.

(e) Years ended June 30 of that stated.

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

(g) Total imports. Re-exports, which are very large, are not available.

(h) Excess of re-exports by value only. Total imports amounted to 16,569,707 carats valued £7,366,649 and re-exports to 11,722,911 carats valued £9,410,995.

IMPORTS OF DIAMONDS (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951									
FOREIGN COUNTRIES (Cont.)																
France—																
Uncut £	(a)	(a)	(a)	(c) 1,673	(c) 158	1,073,635	1,494,206									
Cut and polished £	(a)	(a)	(a)	(a)	(a)	858,773	1,623,913									
Netherlands—																
Unpolished £	(a)	2,000,000	(a)	2,070,000	(a)	(a)	(a)									
Polished £	(a)	50,000	(a)	240,500	(a)	(a)	(a)									
Industrial diamonds .. £	(a)	130,000	(a)	546,000	(a)	(a)	(a)									
Switzerland—																
Industrial diamonds .. £	44,000	(a)	(a)	(a)	(a)	(a)	(a)									
Egypt—																
Cut Ct.	30	74	(a)	(a)	(a)	(a)	(a)									
.. .. £	1,338	849	(a)	(a)	(a)	(a)	(a)									
Mexico—																
Uncut Ct.	4,215	22,820	(a)	(a)	(a)	(a)	(a)									
.. .. £	13,385	7,805	(a)	(a)	(a)	(a)	(a)									
Cut Ct.	13,830	19,830	(a)	(a)	(a)	(a)	(a)									
.. .. £	490,593	511,501	(a)	(a)	(a)	(a)	(a)									
Industrial diamonds .. Ct.	499,140	323,590	723,135	136,615	(a)	(a)	(a)									
.. .. £	8,369	8,144	20,325	(a)	(a)	(a)	(a)									
United States—																
Uncut Ct.	895,219	1,033,906	1,075,478	912,762	670,140	673,699	697,981									
.. .. £	10,702,676	12,051,108	10,682,682	11,032,349	8,540,372	15,570,379	17,394,578									
Cut and polished .. Ct.	377,493	594,481	347,810	389,314	335,487	492,671	480,516									
.. .. £	15,835,132	29,272,508	13,268,372	13,956,559	12,234,843	20,901,751	22,092,144									
Industrial diamonds .. Ct.	10,733,411	4,652,639	3,920,012	10,418,316	6,331,923	11,035,061	12,051,961									
.. .. £	3,182,125	3,574,724	3,186,319	8,069,851	5,031,520	13,461,933	16,377,068									
Dust Ct.	62,317	77,732	116,391	226,430	101,300	128,715	166,760									
.. .. £	11,715	32,077	57,106	153,416	67,346	74,231	168,391									
Chile—																
Industrial diamonds .. Ct.	13,595	3,100	(a)	(a)	(a)	(a)	(a)									
.. .. £	11,901	3,833	(a)	(a)	(a)	(a)	(a)									
Peru—																
Glaziers' diamonds .. £	61	—	(a)	(a)	(a)	(a)	(a)									
Venezuela—																
Carbons £	597	14,400	51,837	1,700	(a)	(a)	(a)									
Israel—																
Rough diamonds .. Ct.	} (b)	(b)	(b)	(b)	} 185,266	366,661	(a)									
.. .. £								} 1,539,845	3,211,809	(a)						
Bort Ct.											} 52,428	81,057	(a)			
.. .. £														} 31,987	54,454	(a)
Powder Ct.																
.. .. £	} 3,127	4,860	(a)													
Philippine Republic—																
Diamonds Ct.				—	4,322	(a)	(a)	(a)	(a)							
.. .. £				469	33,819	(a)	(a)	(a)	(a)							
Dust and bort Ct.				—	100	(a)	(a)	(a)	(a)							
.. .. £	—	371	(a)	(a)	(a)	(a)										

(a) Information not available.

(b) See " Palestine " under British Countries.

(c) Industrial diamonds.

DIATOMACEOUS EARTH

PRODUCTION OF DIATOMACEOUS EARTH

(Long tons)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Great Britain	3,000	2,000	2,328	7,000	10,600	3,736	7,222
Northern Ireland	9,958	7,049	8,638	6,858	7,789	6,443	8,726
Kenya	444	508	724	1,019	2,189	2,572	4,218
Union of South Africa ..	68	147	713	1,289	1,137	429	—
Canada (Shipments)	41	80	92	41	54	44	(a)
Australia	3,088	4,957	5,543	4,438	4,063	6,221	8,729
New Zealand	255	348	436	103	94	119	119
FOREIGN COUNTRIES							
Austria	841	848	1,941	4,719	3,480	3,233	3,832
Denmark—							
Diatomaceous earth	1,132	1,895	4,510	5,717	3,974	4,057	(a)
Moler (b)	(a)	40,000	60,000	70,000	70,000	70,000	95,000
Finland	686	815	830	1,067	1,434	1,009	(a)
France	10,381	20,122	29,042	47,583	37,038	68,559	(a)
Germany	(a)	(a)	(a)	(a)	(c) 28,872	(c) 33,175	(c) 43,258
Italy	—	3,110	2,357	5,128	6,524	(a)	(a)
Spain	543	768	(a)	(a)	(a)	(a)	(a)
Sweden	1,601	1,626	1,673	1,737	1,815	1,722	(a)
Algeria	4,832	5,866	6,437	8,276	13,366	13,493	20,660
Egypt	960	1,366	1,319	1,343	1,159	1,045	2,709
United States	(d) 190,704	(d) 190,704	(d) 190,704	(e) 215,080	(e) 215,080	(e) 215,080	(a)
Chile	219	(a)	(a)	1,044	3,261	152	(a)

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

- (a) Information not available.
- (b) Estimated.
- (c) Bizonal area only.
- (d) Average annual production 1945-1947.
- (e) Average annual production 1948-1950.

EXPORTS OF DIATOMACEOUS EARTH

(Domestic Produce)

(Long tons)

Exporting Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Canada (including other natural abrasives) ..	11	3	53	15	7	6	19
Australia	(a)	65	168	144	85	136	88
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U. .	(a)	(a)	(a)	6,733	391	1,042	1,185
Denmark—							
Diatomaceous earth ..	(a)	(a)	(a)	(a)	(a)	(a)	3,907
Moler	2,784	35,884	47,371	55,712	50,742	57,120	75,599
Moler bricks	1,130	3,496	4,388	6,497	6,435	6,618	9,654
Finland	15	88	59	107	—	18	—
France (incl. tripoli, etc.)..	218	1,310	1,596	877	875	897	1,736
Germany (Federal)	(a)	(a)	(a)	268	626	1,815	3,892
Italy	(a)	(a)	15	5	84	140	33
Norway	3	125	214	280	106	207	(a)
Portugal	21	1	13	26	42	18	—
Sweden	23	23	—	41	8	118	31
Algeria (incl. tripoli, etc.)..	2,754	5,687	3,524	6,703	11,190	11,112	14,570
Brazil	297	—	—	—	—	(a)	(a)
Chile	168	80	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

IMPORTS OF DIATOMACEOUS EARTH

(Less Re-exports)

(Long tons)

Importing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom	5,568	32,361	48,962	52,114	46,087	52,183	61,347
Union of South Africa ..	146	205	250	361	453	224	(a)
Canada	11,801	15,235	13,459	15,358	15,102	16,292	18,811
Australia	(a)	585	1,495	572	1,275	1,651	1,430
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.	(a)	(a)	(a)	2,277	3,628	5,505	11,682
Denmark	—	24	25	89	134	314	102
Finland (total imports) ..	91	3	71	103	54	164	599
France (ncl. tripoli, etc.)..	1,096	4,689	2,974	3,211	4,849	5,059	6,893
Germany	(a)	(a)	(a)	1,886	10,189	14,828	31,513
Iceland	(a)	(a)	(a)	(a)	16	11	37
Italy	(a)	(a)	22	161	129	333	520
Netherlands	(a)	(a)	(a)	2,805	2,363	2,917	4,484
Norway	71	455	1,142	1,540	2,761	4,396	(a)
Portugal	21	82	119	73	138	96	297
Sweden	374	753	862	710	468	681	(a)
Yugoslavia	(a)	(a)	(a)	(a)	(a)	69	167
Algeria (ncl. tripoli, etc.)..	50	30	12	46	5	61	83
Egypt	32	(b) 58	(b) 64	(b) 1	(b) 5	(a)	(a)
Tunis	42	139	126	4	(a)	(a)	(a)
Cuba (total imports) ..	2,910	(a)	(a)	2,460	2,911	(a)	(a)
Mexico	779	1,156	1,825	1,484	(a)	(a)	(a)
Chile	18	—	127	144	(a)	(a)	(a)
Peru	628	274	(a)	(a)	(a)	(a)	(a)
Venezuela (incl. tripoli, etc.)	12	175	282	141	(a)	(a)	(a)
Turkey	(a)	230	206	107	375	403	500

(a) Information not available.

(b) Total imports.

FELSPAR

PRODUCTION OF FELSPAR

(Long tons)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Great Britain—							
China stone	32,125	36,495	47,709	54,591	64,258	68,364	71,388
Kenya	108	43	35	10	20	—	—
Southern Rhodesia	—	—	—	—	—	3,464	1,129
Union of South Africa	(b) 625	1,537	1,649	2,533	3,493	5,096	3,290
Canada (sales)	27,005	31,467	32,236	48,974	32,989	31,739	32,699
India	335	1,283	1,722	987	849	1,722	3,145
Palestine	36	52	(a)	(a)	(a)	(a)	(a)
Australia (including china stone)	6,114	7,856	8,431	9,613	10,730	13,066	14,245
FOREIGN COUNTRIES							
Austria	472	758	936	1,089	1,882	3,847	3,701
Belgium	(a)	(a)	(a)	(a)	1,147	600	(a)
Finland	3,346	3,563	2,013	5,968	9,915	8,899	(a)
France	16,113	27,745	43,407	54,469	46,764	41,498	(a)
Germany (Federal)	(a)	(a)	(a)	(a)	47,500	75,500	70,401
Italy	841	8,043	9,431	13,256	10,729	14,029	22,273
Norway—							
Unground	3,881	2,808	15,863	23,008	19,048	17,534	23,024
Ground	296	2,440	5,927	9,586	8,000	5,787	7,602
Portugal	667	842	1,119	1,535	1,220	—	463
Spain	(a)	(a)	(a)	(c) 7,841	(a)	6,874	(a)
Sweden (sales)—							
Unground	5,061	11,100	21,604	21,268	22,723	18,005	(a)
Ground	9,872	13,777	15,749	16,808	15,620	17,457	(a)
Egypt	63	—	—	—	—	—	—
Madagascar	—	12	—	—	—	—	—
United States (sales)	373,054	508,380	459,910	460,713	369,378	407,925	400,439
Argentina	5,290	(a)	(a)	(a)	(a)	(a)	(a)
Brazil	(a)	(a)	(a)	186	(a)	(a)	(a)
Chile	(a)	(a)	214	871	124	857	1,181
Peru	325	171	29	207	295	—	(a)
Uruguay	(e) 313	458	830	4,800	798	699	664
Japan	(a)	(a)	21,157	24,681	19,738	12,979	26,109
TOTAL*	490,000	695,000	720,000	800,000	700,000	770,000	780,000

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

(a) Information not available.

(b) Sales and shipments.

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

(d) Exports.

(e) Incomplete.

EXPORTS OF FELSPAR

(Domestic Produce)

(Long tons)

Exporting Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom	(b) 1,969	2,998	2,005	1,234	1,272	(a)	(a)
Canada	15,079	17,178	16,349	28,096	15,687	13,808	17,707
Palestine	2	3	(a)	(a)	(d)	(d)	(d)
Australia	(a)	(a)	(a)	(f) 80	(f) 210	388	462
FOREIGN COUNTRIES							
Austria	(a)	(a)	348	162	30	54	139
Czecho-slovakia	(a)	130	15	—	(a)	(a)	(a)
Finland	229	3,293	4,361	3,641	6,388	6,595	7,479
France	49	841	3,339	4,361	5,690	6,416	8,419
Germany (Federal) ..	(a)	(a)	(a)	2,631	5,734	6,373	(c) 28,653
Italy	(a)	(a)	(a)	(a)	(a)	(g) 303	1,711
Netherlands	(a)	—	1,649	2,302	2,303	1,402	2,793
Norway—							
Crude	1,312	4,947	15,922	22,139	15,337	14,505	25,018
Ground	242	2,257	7,220	7,515	6,249	6,012	5,907
Sweden	5,454	18,651	22,347	20,463	19,165	24,971	28,573
Israel	(e)	(e)	(e)	(e)	267	779	(a)

(a) Information not available.

(b) Including china stone.

(c) Including fluorspar.

(d) See "Israel" under Foreign Countries.

(e) See "Palestine" under British Countries.

(f) Years ended June 30 of that stated.

(g) July to December only.

IMPORTS OF FELSPAR

(Less Re-exports)

(Long tons)

Importing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom	(b) 3,198	10,309	9,295	14,644	9,798	19,460	26,355
Canada	737	629	287	185	204	128	174
Palestine	23	83	(a)	(a)	(a)	(a)	(a)
Australia	—	—	—	(c) 35	118	273	356
FOREIGN COUNTRIES							
Austria	(a)	(a)	—	53	32	199	265
Czechoslovakia	(a)	50	1,890	(c) 250	(a)	(a)	(a)
Denmark	1,710	1,450	2,221	3,195	3,429	3,137	2,806
Finland (total imports)	—	—	—	111	48	—	15
France	—	549	1,801	3,738	3,657	4,361	18,750
Germany (Federal) ..	(a)	(a)	(a)	1,748	2,799	6,021	(d) 6,639
Italy	(a)	(a)	(a)	(a)	(a)	(f) 25	1,076
Netherlands	(a)	2,060	8,066	8,200	6,490	10,761	14,064
Sweden	—	1,891	3,555	1,094	443	15	(a)
Yugoslavia	(a)	(a)	(a)	(a)	(a)	103	79
Mexico	1,384	1,699	3,536	3,817	(a)	(a)	(a)
United States	14,924	16,365	16,685	31,047	15,826	12,367	17,128
Chile	1	7	(a)	(a)	(a)	(a)	(a)
Venezuela	9	—	106	18	(a)	(a)	(a)

(a) Information not available.

(b) Including china stone.

(c) January to October only.

(d) Including fluorspar.

(e) Year ended June 30 of that stated.

(f) July to December only.

FLUORSPAR

PRODUCTION OF FLUORSPAR

(Long tons)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom	43,582	46,454	44,305	58,017	52,032	49,965	63,889
Southern Rhodesia	—	—	152	12	236	440	109
South West Africa	—	—	—	—	—	71	767
Union of South Africa	3,599	4,745	4,739	3,695	4,780	6,838	12,087
Canada	6,580	7,180	6,416	10,125	} 57,569	57,333	77,625
Newfoundland	38,648	11,432	22,985	71,096			
India	431	—	—	—	—	—	—
Australia	931	1,182	1,200	511	562	576	489
FOREIGN COUNTRIES							
Belgium	—	—	2,027	4,153	(a)	(a)	(a)
France	14,305	18,931	31,097	32,914	45,302	40,664	39,000
Germany (Federal)	(a)	(c) (d) 2,077	(d) 6,392	48,565	46,200	90,768	141,471
Italy	3,280	7,683	19,962	38,951	17,441	31,112	40,193
Norway	3,092	4,517	1,072	1,102	881	825	889
Spain	9,484	8,574	13,666	41,877	58,653	(b) 75,110	99,397
Sweden (sales)	3,394	3,662	2,736	4,235	—	4,216	(a)
Morocco (French)	(a)	(a)	(a)	10	492	39	1,940
Tunis	—	—	—	515	346	—	—
Mexico (e)	49,457	19,797	45,017	74,190	54,893	64,630	65,707
United States (f)	289,251	248,161	294,182	296,204	211,343	269,205	309,843
Argentina	2,964	(a)	(a)	(a)	(a)	(a)	(a)
Bolivia (e)	18	—	27	223	260	(a)	(a)
Brazil	—	—	828	739	529	(a)	(a)
China (Occupied) (g)	3,907	(a)	(a)	(a)	(a)	(a)	(a)
Japan	3,156	307	94	67	945	2,386	3,933
Korea	19,127	(a)	(a)	(a)	(h) 1,211	(a)	(a)
Manchuria (i)	14,858	(a)	(a)	(a)	(a)	(a)	(a)
Turkey	—	113	—	—	492	—	—
TOTAL*	600,000	515,000	617,000	817,000	684,000	824,000	994,000

* Including fluor spar produced in the U.S.S.R.

(a) Information not available.

(b) Revised.

(c) August to December only.

(d) French Zone only.

(e) Exports.

(f) Shipments.

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

(h) Southern Korea only.

(i) Exports to Japan from Manchuria.

EXPORTS OF FLUORSPAR

(Domestic Produce)

(Long tons)

Exporting Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom	21	1,777	1,697	2,131	1,085	(a)	(a)
South West Africa	—	—	—	—	—	—	840
Union of South Africa	1,380	193	58	59	32	41	3,498
Canada	—	—	—	—	} 13,700	(a)	(a)
Newfoundland (b)	21,750	27,932	34,050	32,102			
FOREIGN COUNTRIES							
France	—	575	995	578	2,371	3,670	2,831
Germany (Federal)	(a)	(a)	(a)	16,309	20,842	53,601	(d) 79,856
Italy	(a)	(a)	(a)	(a)	(a)	(c) 3,303	21,133
Norway	112	426	346	724	376	169	(a)
Sweden	137	1,616	833	635	234	34	26
Morocco (French)	(a)	(a)	(a)	(a)	(a)	(a)	522
Tunis	—	—	—	10	(a)	(a)	(a)
Mexico	49,457	19,797	45,017	74,190	54,893	64,630	65,707
United States	1,080	1,656	1,186	663	683	614	976
Bolivia	18	—	27	223	260	(a)	(a)
China (Occupied) (e)	3,907	(a)	(a)	(a)	(a)	(a)	(a)
Korea	(e) 15,844	—	(f) 334	—	(a)	(a)	(a)
Manchuria (e)	14,858	(a)	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

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

(c) July to December only.

(d) Including feldspar.

(e) Exports to Japan.

(f) Southern Korea only.

IMPORTS OF FLUORSPAR

(Less Re-exports)

(Long tons)

Importing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Canada (b)	18,314	28,405	28,573	43,683	2,241	1,404	7,311
Australia	(c) —	(c) 100	(c) 40	42	70	408	933
FOREIGN COUNTRIES							
Austria	(a)	(a)	993	1,937	3,735	6,665	7,229
Denmark	167	703	620	637	661	575	711
France	4,570	8,687	10,579	298	—	720	—
Germany (Federal)	(a)	(a)	(a)	—	—	—	(d) 1,187
Netherlands	(a)	(a)	(a)	1,785	1,931	2,825	3,015
Norway	—	212	460	1,134	254	1,758	(a)
Portugal	20	17	21	9	35	34	32
Sweden	15	2,703	2,743	5,676	881	2,145	(a)
Mexico	—	38	44	2	(a)	(a)	(a)
United States	93,683	26,654	70,290	99,666	85,374	146,995	161,852
Peru	405	255	(a)	(a)	(a)	(a)	(a)
Japan	34,609	386	—	842	21,932	8,343	(a)

(a) Information not available.

(b) Including Newfoundland from April 1, 1949.

(c) Year ended June 30 of that stated.

(d) Including feldspar.

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

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Union of South Africa ..	(a)	(a)	(a)	(b) 715	1,549	2,079	2,504
India	13,232	9,418	2,831	6,011	4,852	4,560	4,000
Pakistan	(a)	(a)	5,752	4,814	(a)	(a)	(a)
Australia	276	420	40	132	119	40	60
New Zealand	76	75	31	68	—	—	—
FOREIGN COUNTRIES							
United States (sales) ..	264,614	266,743	293,811	305,429	286,532	353,594	431,806
Japan	(a)	(a)	(a)	(a)	(a)	(a)	(a)

Fuller's earth is also produced in the United Kingdom and Turkey.
(a) Information not available. (b) Sales.

EXPORTS OF FULLER'S EARTH*
(Long tons)

Exporting Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Australia	(a)	(a)	(a)	(b) 46	136	—	—
FOREIGN COUNTRIES							
Italy	(a)	(a)	(a)	(a)	(a)	(d) 85	181
United States (c)	6,029	15,846	8,500	9,500	10,800	(a)	(a)

* Statistics of exports of Fuller's earth are not generally separately recorded in official trade returns.
(a) Information not available. (b) Year ended June 30 of that stated.
(c) As recorded by producers. (d) July to December only.

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

Importing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Union of South Africa ..	316	718	369	128	182	336	(a)
Canada	(£16,740)	(£17,629)	(£21,456)	(£23,343)	(£27,578)	(£39,211)	(£45,009)
Ceylon	22	76	41	—	—	4	36
Australia	581	657	519	390	591	598	458
FOREIGN COUNTRIES							
Austria	(a)	(a)	(a)	(a)	480	509	587
Italy	(a)	(a)	(a)	(a)	(a)	(b) 443	340
Belgian Congo	—	5	37	(a)	(a)	1,242	725
Mexico	500	820	1,347	982	(a)	(a)	(a)
United States—							
Crude	—	8	41	30	31	—	36
Prepared	300	165	97	85	316	212	326
Chile	53	—	(a)	(a)	(a)	(a)	(a)
Peru	264	265	(a)	(a)	(a)	(a)	(a)
Venezuela	187	143	140	18	(a)	(a)	(a)

(a) Information not available.

(b) July to December only.

GOLD

PRODUCTION OF GOLD ORE

(In terms of metal)

(Fine troy ounces)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Anglo-Egyptian Sudan ..	1,623	3,670	3,725	3,579	4,114	3,533	1,495
Bechuanaland Protectorate ..	11,297	9,738	7,382	1,502	300	264	493
Gold Coast	539,252	585,910	558,011	672,388	676,931	689,429	698,676
Kenya	38,517	29,892	21,959	23,429	20,072	22,946	19,765
Nigeria	8,108	4,881	2,203	2,899	2,515	2,237	1,588
Northern Rhodesia ..	265	6,838	779	1,180	1,186	1,432	857
Southern Rhodesia ..	568,242	544,596	522,735	514,440	528,180	511,163	486,907
Sierra Leone	274	183	2,400	2,400	2,330	3,484	3,292
South West Africa ..	84	(a)	37	469	(a)	(a)	(a)
Swaziland	3,583	4,914	5,637	3,110	2,841	1,794	322
Tanganyika	51,302	49,952	46,842	57,189	69,042	(f) 66,552	(f) 66,397
Uganda (exports) ..	2,293	2,176	1,366	1,158	648	509	184
Union of South Africa ..	12,224,629	11,927,165	11,200,281	11,584,849	11,705,048	11,663,713	11,516,450
Canada	2,696,727	2,832,554	3,070,221	3,529,608	} 4,123,518	4,441,227	4,328,931
Newfoundland	15,354	15,751	13,583	12,252			
British Guiana	20,685	22,712	24,225	18,955	19,368	12,613	13,485
India	168,366	131,775	171,705	180,430	164,203	196,925	226,357
Malaya (e)	275	400	4,800	9,100	13,000	17,600	16,200
Sarawak	—	17	389	599	1,523	1,440	931
Australia	657,213	824,480	937,654	890,802	889,057	867,837	895,536
Fiji	94,964	82,401	94,353	93,059	104,036	103,423	95,635
New Guinea	—	661	59,202	86,556	93,045	(c) 81,764	(c) 94,438
New Zealand	128,364	119,271	112,260	93,903	84,874	76,527	75,115
Papua	(a)	(a)	550	202	836	(d)	(d)
TOTAL	17,231,000	17,199,000	16,863,000	17,784,000	18,507,000	18,767,000	18,542,000
FOREIGN COUNTRIES							
Finland	3,022	7,330	10,642	11,317	11,417	6,559	18,069
France	39,738	48,355	42,407	47,519	55,524	63,755	67,838
Italy	1,865	9,259	12,716	19,978	11,478	11,956	(a)
Portugal	(a)	6,687	15,754	11,799	10,385	15,465	18,358
Roumania	90,987	80,377	74,686	90,000	112,528	(a)	(a)
Sweden	85,585	91,372	75,586	71,889	80,280	78,866	70,957
Angola	819	551	360	434	319	201	61
Belgian Congo	346,971	331,313	301,445	299,774	333,853	339,415	352,308
Cameroon (French) ..	16,300	11,928	11,501	10,706	8,938	7,170	5,433
Egypt	3,014	2,793	2,090	3,853	7,045	10,724	14,037
Eritrea	2,119	3,411	3,540	2,242	2,243	1,109	(a)

(a) Information not available

(b) Exports.

(c) Including Papua.

(d) Included with New Guinea.

(e) Revised estimates.

(f) Including gold in lead concentrates exported amounting to 41 and 905 troy ounces in 1950 and 1951 respectively.

PRODUCTION OF GOLD ORE (Cont.)

Producing Country	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Ethiopia (b)	(c) 56,176	(c) 51,528	(c) 27,382	41,595	45,102	(d) 43,200	(a) 52,849
French Equatorial Africa ..	76,069	71,535	70,185	63,723	57,260	54,997	(h) 1,961
French West Africa ..	6,945	7,009	5,562	20,512	51,821	(h) 4,807	(a) 1,948
Liberia (c)	9,016	16,506	16,998	13,797	13,183	12,110	(a) 2,058
Madagascar	6,430	3,890	1,521	2,096	1,662	1,935	119
Morocco (French)	160	—	—	—	—	119	997
Mozambique	7,909	5,765	5,401	4,734	2,468	(e) 115	(a) 868
Costa Rica (b)	4,456	1,739	(e) 1,988	(e) 1,096	(e) 284	(e) 6,915	(a) 460
Cuba	423	1,105	364	334	(e) 5,692	(c) 534	(a) 397
Dominican Republic	486	646	—	—	(c) 1,114	(e) 397	(a) —
Guatemala	60	32	(e) 35	(e) 16	(e) 5	(e) —	(a) —
Haiti	73	41	—	—	—	—	—
Honduras	19,158	12,094	11,929	14,265	25,832	30,380	31,216
Mexico	499,301	420,500	464,739	367,612	405,549	408,122	393,429
Nicaragua	206,360	210,026	216,700	218,019	218,831	231,037	251,869
Panama	—	—	—	1,000	9,657	1,118	2,712
Salvador	11,397	21,809	10,755	20,778	27,091	27,547	(a) 1,957,543
United States	954,572	1,574,505	2,109,185	2,014,257	1,991,783	2,394,231	(a) 1,957,543
Argentina	3,381	8,038	(d) 8,000	(d) 8,000	(d) 8,000	(a) 1,736	(a) 1,275
Bolivia	5,857	16,701	20,108	2,642	32,440	131,207	135,837
Brazil	163,107	140,482	135,548	130,243	119,182	185,542	173,678
Chile	180,352	230,523	168,855	164,252	179,135	406,319	430,723
Colombia	506,695	437,176	383,027	335,260	385,307	4,533	6,494
Dutch Guiana	5,884	4,630	4,125	4,177	3,794	96,908	(a) 10,005
Ecuador	66,975	73,512	57,250	79,207	100,177	(c) 13,793	(c) 144,367
French Guiana	20,541	19,741	14,930	13,632	14,757	147,964	(a) 2,861
Peru	172,663	158,379	116,017	111,162	113,753	—	131
Uruguay	(b) 1,000	—	—	—	—	—	—
Venezuela	76,837	48,558	21,830	49,737	61,378	34,462	169,499
Burma	(g) 30	2	67	230	158	21,820	(a) 393,600
Formosa	592	(a) 7,750	13,115	16,607	84,556	(a) 73,104	(a) —
Japan	26,749	42,825	55,171	69,060	(f) 3,408	(a) 333,991	(a) 393,600
Korea	96,452	193,000	329,000	(f) 2,098	(f) 3,408	333,991	73,104
Philippine Republic	(a) 1,055	65,030	209,225	287,838	66,835	66,202	(a) 73,104
Saudi Arabia	36,215	49,773	54,046	73,976	10,700	(a) 10,700	(a) 10,700
Turkey	(a) —	(a) —	(a) —	(a) —	(a) —	(a) —	(a) —
* TOTAL	3,600,000	4,100,000	4,900,000	4,600,000	4,900,000	5,400,000	5,100,000
* WORLD'S TOTAL (excl. U.S.S.R.)	20,800,000	21,300,000	21,800,000	22,400,000	23,400,000	24,200,000	23,600,000

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

- (a) Information not available.
- (b) Annual Report of the U.S. Mint.
- (c) Exports
- (d) Estimated.
- (e) Imports into the United States.
- (f) Southern Korea only.
- (g) Average annual production during Japanese occupation.
- (h) European producers only.

EXPORTS OF GOLD *

(Including re-exports)

(In terms of metal)

(Fine troy ounces)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Bullion—							
Unrefined	—	—	2,000	—	—	—	—
Refined	566,000	1,164,000	14,870,000	33,367,000	18,125,000	4,935,000	2,926,000
Coin	2,000	89,000	129,000	469,000	848,000	157,000	421,000
Anglo-Egyptian Sudan*—							
Bullion	1,600	3,500	1,200	300	(a)	—	(a)
Gold Coast—							
Bullion	474,997	646,559	568,471	670,645	656,431	705,182	692,301
Kenya (d)*—							
Bullion	41,300	34,700	31,700	40,100	29,200	28,700	25,300
Nigeria—							
Bullion	8,021	1,984	691	41	176	15	347
Northern Rhodesia—							
Bullion	254	197	248	190	166	169	79
Sierra Leone—							
Bullion	398	222	680	3,996	2,046	2,804	2,207
Southern Rhodesia*—							
Concentrates, etc. ..	2,700	4,600	5,100	6,400	(a)	6,400	3,900
Bullion	566,326	552,519	526,876	517,135	536,011	516,361	484,354
Coin	1	—	—	—	—	—	—
South West Africa—							
Bullion	(a)	(a)	33	473	51	25	(a)
Tanganyika—							
Concentrates	—	60	40	—	(a)	50	400
Bullion	50,568	48,427	47,356	57,557	68,989	65,127	65,583
Uganda (b)—							
Bullion	2,293	2,176	1,366	1,158	648	509	184
Union of South Africa—							
Ore and concentrates ..	4,700	3,600	6,700	12,900	(a)	11,900	16,500
Bullion	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Coin	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Zanzibar*—							
Bullion	—	700	1,000	—	—	—	—
Canada—							
Ore, etc.	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Bullion	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Coin	(a)	(a)	(a)	(a)	(a)	(a)	(a)
British West Indies—							
Trinidad and Tobago*—							
Bullion	20	—	110	—	(a)	(a)	(a)
British Guiana—							
Bullion	8,915	9,845	15,395	14,711	14,992	10,484	9,184
Aden*—							
Bullion and coin ..	—	—	—	—	—	1,200	(a)
India—							
Bullion	(c) 2,400	(c) 300	(c) 3,800	—	(c) 405	(c) 400	(c) 1,206
Coin	(c) 5,200	(c) 64,000	(c) 50,000	—	(c) —	(c) —	(c) —
Malaya—							
Bullion	(a)	1,400	—	8,900	(a)	17,800	20,700
Coin	(a)	—	—	19	(a)	31	—
Hong Kong*—							
Bullion	(a)	171,000	292,000	69	(a)	1,600	4,600
Coin	(a)	—	108,000	4	(a)	60	40
Palestine—							
Bullion and coin ..	—	—	(a)	(a)	(a)	(a)	(a)

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

(a) Information not available.

(c) Sea-borne trade only.

(b) Also included with Kenya up to 1948 inclusive.

(d) Including Uganda up to 1948 inclusive.

EXPORTS OF GOLD (Cont.)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES (Cont.)							
Sarawak*—							
Bullion	(a)	—	—	900	(a)	1,400	1,000
Australia—							
Ores, etc. (b)	5,495	1,691	5,300	13,137	5,592	8,257	(c) 7,387
Bullion	317,000	2,198,207	355,992	232	226	22	45
Coin	—	—	3	—	—	—	—
Fiji—							
Bullion	72,700	68,900	134,922	105,712	104,115	103,111	93,700
New Guinea (b)—							
Bullion	(a)	(a)	(a)	(a)	91,295	85,052	87,593
New Zealand—							
Auriferous quartz	—	13	107	—	1,676	—	—
Bullion, etc.	118,000	110,000	96,000	54,000	50,000	90,000	60,000
Sweepings and scrap	642	804	1,065	1,482	1,079	1,181	636
Papua (b)—							
Bullion	(a)	(a)	(a)	(a)	28	788	(a)
Irish Republic*—							
Bullion	60	130	200	4,300	(a)	500	800
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.*—							
Bullion and scrap	(a)	(a)	(a)	(a)	(a)	(a)	114,000
Denmark—							
Beaten, rolled or drawn ..	—	600	300	300	50	1,500	(a)
France—							
Bullion and scrap	(a)	(a)	(a)	(a)	(a)	(a)	1,393,000
Coin	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Beaten, rolled or drawn ..	600	1,400	14,500	13,000	144,000	947,000	1,892,000
Italy—							
Bullion and scrap	} (a)	11,000	12,000	7,600	2,700	350	200
Beaten, rolled or drawn ..							
Netherlands—							
Bullion	} (a)	(a)	(a)	(a)	800,000	{ 1,400,000	(a)
Coin							
380,000							(a)
Norway—							
Coin	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Sweden—							
Bullion	19,000	390,000	806,000	19,000	69,000	50,000	90,000
Coin	—	—	500	—	—	—	—
Sweepings, etc.	6,000	4,000	8,000	7,000	5,000	1,500	—
Switzerland—							
Bullion	(a)	(a)	(a)	(a)	—	—	(a)
Belgian Congo—							
Bullion	300,000	330,000	330,000	320,000	359,000	343,000	366,000
Cameroon (French)—							
Bullion	(a)	(a)	(a)	(a)	6,400	(a)	(a)
Egypt—							
Bullion	—	—	18,000	—	20,000	(a)	(a)
Coin	—	—	—	—	—	(a)	(a)
Ethiopia	56,176	51,528	27,382	(a)	(a)	16,500	(a)
French Equatorial Africa—							
Bullion	(a)	(a)	48,000	134,900	101,400	52,000	51,000
French West Africa—							
Bullion	100	50,000	2,000	1,000	35,000	23,000	9,000
Liberia—							
Bullion	9,016	16,506	16,998	13,797	13,183	12,110	(a)
Madagascar—							
Bullion	—	8,000	1,000	10	5,000	(a)	(a)

(a) Information not available.

(b) Years ended June 30 of that stated.

(c) Calendar year.

EXPORTS OF GOLD (Cont.)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Mozambique—							
Bullion	30	25,000	—	150,000	30	—	—
Costa Rica—							
Bullion	3,000	1,000	2,000	800	1,000	(a)	(a)
Cuba—							
Ore, bullion and scrap ..	15,000	(a)	(a)	(a)	(a)	(a)	(a)
Dominican Republic—							
Bullion and scrap ..	500	700	—	—	1,000	500	450
Guatemala—							
Bullion, etc.	70	30	30	—	5	400	—
Honduras (years ended June 30)—							
Bullion, etc.	(a)	14,900	13,000	12,000	23,000	25,000	33,600
Mexico—							
Bullion	116,000	66,000	75,000	77,000	221,000	141,000	(a)
Netherlands West Indies—							
Bullion and coin ..	—	12,249	64	(a)	(a)	(a)	(a)
Nicaragua—							
Concentrates	203,000	203,390	213,454	222,627	219,139	229,206	251,160
Precipitates	3,360						
Salvador—							
Bullion, etc.	16,526	21,798	10,755	20,778	27,000	29,000	(a)
United States—							
Ore and base bullion ..	—	261	3,450	—	2,865	(a)	(a)
Refined bullion	5,661,385	6,298,168	5,402,975	5,342,728	2,168,808	(a)	(a)
Coin	49,482	4,305	(a)	(a)	(a)	(a)	(a)
Argentina—							
Bullion and coin ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Bolivia—							
Ore	3,180	2,918	7,955	4,051	32,440	1,737	1,275
Chile—							
Ore	(a)	(a)	(a)	—	—	(a)	(a)
Bullion	—	157,000	—	—	(a)	(a)	(a)
Coin	155,000	211,000	(a)	(a)	(a)	(a)	(a)
Colombia—							
Bullion	—	9,143	(a)	(a)	(a)	(a)	(a)
Dutch Guiana—							
Bullion	5,884	4,630	4,125	4,177	3,794	4,533	(a)
French Guiana—							
Bullion	(a)	(a)	11,000	11,000	15,000	14,000	10,000
Peru—							
Ores, concentrates, etc. . .	8,000	7,000	10,000	6,300	(a)	11,000	(a)
Bullion, etc.	114,000	120,000	190,000	150,000	(a)	106,000	(a)
Venezuela—							
Bullion	59,000	18,000	3,000	(a)	(a)	(a)	(a)
Saudi Arabia—							
Bullion	(a)	(a)	(a)	(a)	(a)	10,296	(a)

(a) Information not available.

TOTAL IMPORTS OF GOLD *

(In terms of metal)

(Fine troy ounces)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Ore, etc.	9,700	20,100	25,200	35,400	(a)	68,000	218,000
Bullion—							
Unrefined	483,000	655,000	697,000	996,000	1,027,000	1,578,000	2,603,000
Refined	2,327,000	13,453,000	18,402,000	44,857,000	9,535,000	6,637,000	5,765,000
Coin	350	158,000	157,000	2,264,000	3,000	34,000	280,000
Malta*—							
Bullion and Coin	(a)	3,900	1,300	200	(a)	3,300	4,600
Anglo-Egyptian Sudan*—							
Bullion	250	—	323	—	(a)	57	36
Gold Coast—							
Bullion	—	—	—	—	966	—	274
Kenya* (e)—							
Bullion	3,500	2,200	21,800	15,300	3,400	1,100	3,300
Southern Rhodesia*—							
Concentrates	3,100	9,500	9,600	9,100	(a)	9,100	9,500
Coin	—	—	—	—	—	—	—
Tanganyika Territory*—							
Bullion	140	—	—	12	35	194	600
Uganda*—							
Bullion	(f)	(f)	(f)	(f)	1,854	1,328	1,100
Zanzibar*—							
Bullion	—	200	2,700	450	(a)	1,000	1,400
Canada*—							
Bullion, etc. (c)	200	5,900	6,700	800	(a)	1,700	7,400
British West Indies—							
Jamaica*—							
Bullion	130	130	20	70	(a)	40	(a)
Coin	—	—	—	1	(a)	20	(a)
Trinidad and Tobago*—							
Bullion	—	—	3,400	500	(a)	400	(a)
British Guiana*—							
Bullion	70	30	70	—	—	—	(a)
Aden*—							
Bullion and coin	120	20	—	—	—	—	(a)
Ceylon*—							
Bullion	300	—	38,100	100	(a)	9,500	12,000
Cyprus*—							
Bullion	110	640	2,300	1,210	(a)	280	360
Hong Kong*—							
Bullion	(a)	42,000	209,000	—	(a)	60	—
Coin	(a)	105,000	146,000	—	—	—	—
India (b)—							
Bullion	(d) 10,210	(d) 65,942	(d) 537,590	(d) 5,066	(d) 705	(d) 3,280	(d) 1,330
Coin	—	(d) 658	(d) 107,099	(d) 3	(d) 12	(d) 1	(d) 4
Malaya—							
Bullion	(a)	—	—	1,200	(a)	1,200	1,027
Palestine—							
Bullion and coin	21,400	87,300	(a)	(a)	(a)	(a)	(a)
Australia—							
Bullion, etc.	115,000	80,000	135,846	136,133	116,380	158,891	108,913
Coin	—	25	—	10	(a)	30	—
Fiji—							
Bullion	—	—	15	5	8	6	—
New Zealand—							
Bullion, etc.	600	600	500	700	521	874	764
Irish Republic*—							
Bullion	—	—	—	3,500	(a)	—	7,300

* See note on page 121.

(a) Information not available.

(b) Includes trade by land as recorded.

(c) Gold for commercial purposes only.

(d) Sea-borne trade only.

(e) Including Uganda up to 1948 inclusive.

Included with Kenya.

IMPORTS OF GOLD (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES*							
Belgium-Luxemburg E.U.— Bullion, Scrap, etc. ..	(a)	a	(a)	(a)	(a)	(a)	449,600
Denmark— Beaten, rolled or drawn	2,200	32,000	14,000	9,000	10,000	17,000	(a)
Finland— Bullion	4,000	300	—	100	(a)	30	9,000
Sheet and wire	—	200	100	200	(a)	700	100
France— Bullion and scrap ..	(a)	(a)	(a)	(a)	(a)	(a)	1,371,000
Coin	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Beaten, rolled or drawn	250	800	7,500	13,000	(a)	(a)	2,066,000
Italy— Bullion, scrap, beaten, rolled or drawn ..	—	8,100	6,700	2,700	1,463,000	902,000	36,000
Coin	—	16,200	—	60	1,178,000	1,026,000	1,274,000
Norway— Bullion	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Sheets and rolled ..	500	550	2,200	300	1,000	200	(a)
Sweden— Bullion	2,000	10,000	426,000	8,000	12,000	8,000	(a)
Coin	70	700	180	20	(a)	(a)	(a)
Sweepings, etc. .. .	500	400	500	500	(a)	(a)	(a)
Switzerland— Bullion	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Algeria— Beaten, rolled or drawn	30	—	2,600	7,000	7,000	8,000	10,000
Egypt— Bullion	22,000	26,000	119,000	358,000	590,000	(a)	(a)
Coin	17,000	66,000	28,000	308,000	156,000	(a)	(a)
Mozambique— Bullion	—	57,000	93,000	103,000	129,000	82,000	82,000
Mexico— Bullion and coin ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
United States— Ore and base bullion ..	970,000	1,075,049	998,430	1,003,883	1,034,967	(a)	(a)
Refined bullion .. .	1,700,000	9,848,798	54,415,919	54,254,746	21,005,995	(a)	(a)
Coin	1,200	4,346,904	(a)	(a)	(a)	(a)	(a)
Argentina— Bullion and coin ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Brazil— Bullion	6,300	600	100	(a)	(a)	(a)	(a)
Venezuela— Bullion	(a)	7,000	(a)	(a)	(a)	(a)	(a)
Iran (b)— Bullion	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Coin	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Iraq— Bullion and coin ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Syria and Lebanon— Coin	2,000	500,000	(a)	(a)	(a)	(a)	(a)
Turkey— Bullion and scrap ..	—	1,700	500	—	(a)	(a)	(a)

(a) Information not available.

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

GRAPHITE

PRODUCTION OF GRAPHITE

(Long tons)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Kenya	3	—	—	—	—	—	—
Southern Rhodesia	6	—	—	—	—	—	—
South West Africa (crude)	1,297	1,174	1,613	1,601	2,229	1,358	2,585
Tanganyika (crude)	—	—	—	—	—	—	25
Union of South Africa	192	273	(b) 218	170	105	240	323
Canada (sales)	1,705	1,763	2,141	2,267	1,917	3,202	1,444
Ceylon (exports)	7,820	8,082	9,005	13,970	12,241	12,844	12,621
India	1,295	1,627	1,235	1,649	972	1,586	1,578
Malaya	(e) 160	—	—	—	—	—	—
Australia	112	347	303	231	124	145	133
FOREIGN COUNTRIES							
Austria (crude)	3,663	242	3,784	10,723	13,923	14,454	17,939
Czechoslovakia (crude)	10,800	5,027	(a)	(a)	(a)	(a)	(a)
Germany	(a)	(a)	(a)	(d) 5,076	(d) 5,016	(d) 6,459	(a)
Italy	2,240	2,552	4,085	6,637	3,948	3,794	4,415
Norway	1,097	651	2,442	1,066	2,222	2,426	3,398
Spain	2,360	500	304	262	267	307	283
Sweden	213	—	—	63	107	—	—
Egypt	150	—	—	49	—	—	—
Madagascar—							
Flake	7,481	4,356	3,853	} 7,563	{ 5,687	9,784	12,514
Powder	1,558	1,858	1,235		3,309	4,008	5,533
Morocco (French)	258	630	433	279	71	73	128
Mozambique	—	197	124	89	108	(a)	239
Mexico	23,261	21,782	27,542	34,704	23,437	24,238	32,761
United States	4,364	4,978	3,917	8,883	5,448	5,004	6,079
Argentina	328	(a)	(a)	(a)	(a)	(a)	(a)
Brazil	471	650	6,900	7,996	547	464	(a)
Uruguay (ore)	—	—	49	—	—	—	—
Japan	(e) 2,567	(e) 8,083	(e) 10,025	(e) 12,589	5,578	3,945	4,642
Korea (Southern)—							
Flake	5,171	200	528	391	795	(a)	(a)
Other	26,724	—	2,559	14,650	39,233	(a)	(a)
TOTAL*	120,000	70,000	94,000	146,000	142,000	129,000	138,000

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

(a) Information not available.

(b) Including 31 tons of graphite shale.

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

(d) Bizonal area.

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

EXPORTS OF GRAPHITE

(Domestic Produce)

(Long tons)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Crucibles	1,872	3,229	2,795	3,416	3,777	2,889	3,905
South West Africa	1,146	873	1,362	970	1,246	671	2,628
Tanganyika (crude)	—	—	—	—	—	—	25
Union of South Africa	(a)	371	93	138	106	(a)	(a)
Canada	1,020	1,329	1,620	1,798	1,474	2,717	1,028
Ceylon	7,820	8,082	9,005	13,970	12,241	12,844	12,621
Hong Kong (re-exports)	(a)	10	92	565	2,828	1,185	1,838
Australia	33	90	46	82	37	91	63
FOREIGN COUNTRIES							
Austria	(a)	(a)	4,188	7,204	10,301	9,644	12,696
Belgium-Luxemburg E.U.—	(a)	(a)	(a)	904	135	62	73
Czechoslovakia	(a)	874	1,647	(c) 1,086	(a)	(a)	(a)
Denmark (d)	—	2	—	1	7	36	84
France	141	1,032	495	709	301	435	608
Germany (Federal)	(a)	(a)	(a)	992	1,977	4,088	4,818
Italy	(a)	(a)	1,669	1,953	1,597	1,444	2,025
Netherlands	(a)	(a)	(a)	179	221	366	254
Norway	1,264	1,441	2,049	936	2,161	1,872	3,589
Sweden	28	305	16	12	—	7	—
Madagascar	6,349	8,735	8,579	8,305	10,122	11,895	17,838
Morocco (French)	301	560	380	(a)	103	44	32
Mozambique	168	189	203	40	165	—	239
Mexico	23,261	21,603	27,542	34,704	23,149	25,313	34,088
United States	1,168	2,055	1,380	935	1,207	1,248	1,344
Brazil	129	91	127	82	135	(a)	(a)
Japan	(a)	(a)	(a)	(a)	(a)	139	287
Korea—							
Flake	} (a)	} (a)	{ (b) 2,276	(a)	(a)	(a)	(a)
Other				(a)	(a)	(a)	(a)

(a) Information not available.

(b) Imports into Japan from Korea.

(c) January to October only.

(d) Including artificial graphite.

IMPORTS OF GRAPHITE

(Less Re-exports)

(Long tons)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951						
BRITISH COUNTRIES													
United Kingdom—													
Natural	} 6,874	2,807	{ 7,192	9,928	9,868	10,693	13,532						
Artificial								}	}	}	}	}	}
Crucibles .. .. .														—	1	3	—	17	2
Mauritius—						(a)	(a)						
Crucibles	(£905)	(£726)	(£471)	(£158)	6	3	(a)						
Southern Rhodesia	1	33	34	18	33	71	55						
Union of South Africa	818	305	1,205	568	952	548	(a)						
Canada (b)—													
Unground	(£15,027)	(£23,313)	(£18,804)	(£20,323)	(£22,155)	(£23,500)	(£32,788)						
Ground, including man- ufactures	(£62,302)	(£85,089)	(£94,150)	(£82,799)	(£77,997)	(£108,698)	(£161,529)						
Crucibles	(£25,900)	(£33,503)	(£33,721)	(£29,032)	(£34,228)	(£53,994)	(£72,982)						
Newfoundland (c)	3	1	3	1	(c)	(c)	(c)						
Cyprus	—	—	3	6	—	—	2						
Hong Kong (total imports)	(a)	301	283	1,454	3,597	1,419	1,434						
India—													
Graphite	519	488	902	733	404	667	688						
Crucibles	333	223	351	368	728	214	396						
Palestine—													
Crucibles	24	35	(a)	(a)	(f)	(f)	(f)						
Australia	969	840	593	1,162	717	808	1,140						
New Zealand £ (N.Z.)	(£3,275)	(£2,861)	(£2,813)	(a)	171	77	96						
Irish Republic	38	45	33	42	26	39	50						
FOREIGN COUNTRIES													
Austria	(a)	(a)	(a)	(a)	55	220	279						
Belgium-Luxemburg E.U.													
Crude and ground	(a)	(a)	(a)	1,697	1,541	1,788	2,247						
Bulgaria	60	47	(a)	(a)	(a)	(a)	(a)						
Czechoslovakia—													
Graphite	(a)	35	260	(d) 399	(a)	(a)	(a)						
Crucibles, etc.	(a)	18	55	(a)	(a)	(a)	(a)						
Denmark—													
Graphite (e)	167	655	602	728	639	901	721						
Crucibles	27	136	88	102	80	60	119						
Finland (total imports)	75	248	296	131	233	214	303						
France	1,974	524	4,536	4,154	4,361	3,322	5,136						
Germany (Federal)	(a)	(a)	(a)	917	2,842	3,683	5,251						
Italy	(a)	(a)	3,052	1,907	2,407	3,636	3,375						
Netherlands (e)	(a)	(a)	(a)	415	449	1,006	1,531						
Norway—													
Graphite	18	29	45	88	112	69	(a)						
Crucibles, etc.	6	69	66	91	130	132	(a)						
Portugal	14	56	69	50	24	97	45						
Sweden	640	558	505	428	638	1,068	(a)						
Yugoslavia	(a)	(a)	(a)	(a)	(a)	1,017	1,473						
Algeria	65	48	48	52	15	16	11						
Egypt (total imports)	197	61	49	172	143	163	(a)						
Tunis—													
Graphite	15	1	5	9	(a)	(a)	(a)						
Crucibles	31	13	12	50	(a)	(a)	(a)						
Mexico—													
Graphite	72	109	126	64	(a)	(a)	(a)						
Crucibles	106	151	188	50	(a)	(a)	(a)						

(a) Information not available.

(b) Including Newfoundland from April 1, 1949.

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

(d) January to October only.

(e) Including artificial graphite.

(f) See "Israel" under Foreign Countries.

IMPORTS OF GRAPHITE (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
United States (b)	32,262	29,586	38,957	46,556	28,358	38,827	48,564
Argentina	337	239	(a)	(a)	(a)	(a)	(a)
Brazil—							
Graphite	51	41	112	38	7	(a)	(a)
Crucibles	367	182	237	110	147	(a)	(a)
Chile	100	89	(a)	(a)	(a)	(a)	(a)
Colombia	(a)	13	(a)	(a)	(a)	(a)	(a)
Peru	19	18	(a)	(a)	(a)	(a)	(a)
Uruguay	(a)	(a)	(a)	11	18	31	(a)
Israel—							
Crucibles	(c)	(c)	(c)	(c)	28	37	(a)
Japan	(a)	5,267	15,307	26,880	35,136	5,614	(a)
Turkey—							
Graphite	75	257	33	37	20	124	95
Crucibles, etc.	227	251	29	59	46	40	164

(a) Information not available.

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

Year	Long tons
1945	137
1946	4
1947	25
1948	104
1949	40
1950	164
1951	80

c) See "Palestine" under British Countries.

GYPSUM

PRODUCTION OF GYPSUM

(Long tons)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Great Britain—							
Gypsum	528,000	738,000	848,400	1,053,600	1,086,000	1,167,400	1,237,200
Anhydrite	799,000	950,000	897,300	1,033,600	1,024,400	1,038,900	1,047,200
Northern Ireland	70	—	—	—	—	—	170
Anglo-Egyptian Sudan	2,073	3,015	—	2,996	1,472	—	5,573
Kenya	156	500	559	1,000	178	—	82
Union of South Africa (c)	65,042	65,182	78,900	82,610	87,693	115,038	120,129
Canada (b)	741,717	1,809,862	2,325,067	3,114,254	2,809,923	3,375,188	3,507,479
Jamaica	—	—	—	—	12,000	23,000	(e) 28,000
Ceylon	58	32	68	167	184	—	410
Cyprus (e)	2,600	15,000	8,000	20,000	26,000	65,000	24,000
India	} 90,772	} 76,417	{ 50,569	{ 78,948	} 139,944	} 206,366	} 203,602
Pakistan .. .. .								{ 15,866	{ 1,000	15,645	16,659	22,784
Palestine	7,423	14,283	(a)	(a)	(a)	(a)	(a)
Australia	107,173	165,482	215,435	276,416	288,580	335,484	364,347
Irish Republic	23,030	37,295	35,840	61,703	66,205	56,313	(a)
FOREIGN COUNTRIES							
Austria	(a)	23,633	14,858	25,959	35,617	41,632	38,896
Bulgaria (e)	5,000	5,000	5,000	5,000	5,000	5,000	5,000
France	712,565	1,718,794	2,194,524	2,218,579	2,109,309	2,149,000	(a)
Germany (Federal) (i)	(a)	(a)	(a)	(d) 308,000	578,000	714,000	793,000
Greece	—	5,069	837	571	718	807	(a)
Italy (including alabaster)	159,555	232,400	293,724	366,029	440,862	(a)	(a)
Poland	(a)	9,632	14,681	13,959	25,945	32,306	(a)
Portugal	11,502	27,243	33,333	42,165	42,380	35,464	29,519
Spain	561,300	641,400	741,486	783,845	728,846	(a)	743,044
Sweden	284	—	—	—	—	—	—
Algeria	21,900	28,148	37,739	32,733	(a)	(a)	(a)
Angola (f)	40	—	1,390	(a)	(a)	(a)	(a)
Egypt	46,770	77,079	71,194	93,739	(a)	(a)	(a)
Morocco (French)	8,600	14,896	17,012	29,660	15,181	610	—
Morocco (Spanish)	(e) 3,000	(e) 4,000	(e) 3,000	(e) 4,000	(e) 4,000	4,379	3,520
Tunis	7,510	8,842	17,371	18,828	22,000	22,700	24,000
Dominican Republic	(f) 3,206	(f) 11,404	13,252	7,181	17,000	—	20,903
United States	3,403,324	5,026,248	5,543,050	6,477,263	5,900,105	7,314,844	7,737,084
Argentina	90,100	(a)	(a)	(a)	(a)	(a)	(a)
Chile	43,222	75,467	82,604	30,501	59,351	(a)	61,046
Peru	37,398	42,706	40,677	45,978	36,828	23,162	16,660
Venezuela (g)	—	958	3,397	2,568	2,945	2,018	1,382
Japan	82,104	47,738	64,840	111,667	115,270	112,861	197,471
New Caledonia	7,904	6,643	2,662	758	16,850	15,060	15,528
Philippine Republic	(a)	(a)	(a)	792	2,667	2,837	393
Siam	(a)	(a)	(a)	(a)	152	331	77
TOTAL*	7,800,000	12,200,000	14,000,000	16,400,000	16,000,000	18,100,000	19,100,000

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

- (a) Information not available.
- (b) Including "Anhydrite."
- (c) Sales and shipments for the years 1945 to 1948.
- (d) Bizonal area.
- (e) Estimated.
- (f) Exports.
- (g) Production in Government quarries only.
- (h) Shipments.
- (i) Crude estimated on production of calcined.

EXPORTS OF GYPSUM

(Domestic Produce)

(Long tons)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Calced	1,317	2,086	1,266	7,749	16,332	22,236	12,205
Union of South Africa ..	3,612	3,591	2,825	4,998	6,007	6,430	4,959
Canada—							
Crude	498,779	1,329,205	1,729,455	2,336,849	2,271,979	2,651,762	2,703,871
Ground	—	—	—	9,637	(a)	(a)	(a)
Calced	399	865	1,271	662	147	91	151
Jamaica	—	—	—	—	120	10,712	24,861
Cyprus—							
Crude	1,780	10,850	5,800	13,992	16,951	53,094	19,840
Calced	655	3,642	1,601	4,330	7,030	9,465	2,471
Hong Kong (including re-exports)	(a)	113	160	333	210	1,437	1,631
Palestine—							
Calced	4	1	(a)	(a)	(a)	(a)	(a)
Other	4	—	(a)	(a)	(a)	(a)	(a)
Australia—							
Crude	18,155	22,180	27,984	35,164	37,255	27,131	23,905
Irish Republic—							
Calced	(a)	(a)	(a)	(a)	4,591	2,438	8,134
FOREIGN COUNTRIES							
Austria—							
Crude and ground ..	(a)	(a)	18,759	27,978	16,657	19,194	19,468
Calced	(a)	(a)	679	271	1,889	7,002	4,957
Belgium-Luxemburg E.U.—							
Crude	6,043	(a)	(a)	1,630	233	95	771
Ground and calced ..	(a)	(a)	(a)	5,663	3,881	1,613	2,476
Denmark—							
Crude and calced ..	—	—	21	36	21	37	21
France—							
Crude	82,311	310,702	465,897	311,924	290,188	367,691	411,456
Calced .. .. .								53,923	68,357	82,061	69,496
Germany (Federal)—							
Gypsum and phosphatic gypsum	(a)	(a)	(a)	27,675	34,481	94,660	114,082
Italy—							
Crude	(a)	(a)	(a)	(a)	(a)	(b) 222	5,171
Calced	(a)	(a)	(a)	(a)	(a)	(b) 426	115
Netherlands (calced) ..	(a)	29	186	255	2,461	3,100	3,048
Portugal—							
Crude	76	110	99	40	123	277	437
Sweden—							
Calced	162	348	20	27	26	186	56
Switzerland—							
Ground and calced ..	126	2,001	2,638	795	177	161	90
Yugoslavia—							
Crude	(a)	(a)	(a)	(a)	(a)	39	7,821
Calced	(a)	(a)	(a)	(a)	(a)	1,119	1,811
Algeria	98	613	651	608	439	568	252
Angola—							
Crude	40	—	1,390	(a)	(a)	(a)	(a)
Egypt—							
Crude and ground ..	107	(a)	—	2,038	2,139	8,146	12,147
Calced	47	(a)	—	351	1,076	(a)	(a)
Morocco (French)	1,471	—	—	(a)	(a)	(a)	(a)
Morocco (Spanish)	793	985	829	(a)	(a)	(a)	(a)

(a) Information not available.

(b) July to December only.

EXPORTS OF GYPSUM (Cont.)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Tunis (including re-exports)—							
Calcined	75	1	39	21	(a)	(a)	(a)
Dominican Republic	3,206	11,404	9,473	6,386	17,925	987	12,656
Mexico—							
Crude	—	—	—	118,093	(a)	27,828	(a)
Calcined	6	23,728	108,337	45,558	82,762	(a)	(a)
United States—							
Crude and ground	953	3,635	8,676	1,254	} 15,685	21,141	22,362
Calcined	8,001	13,888	20,974	8,387			
Argentina	2,515	1,742	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

IMPORTS OF GYPSUM

(Less Re-exports)

(Long tons)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951						
BRITISH COUNTRIES													
United Kingdom—													
Crude, including alabaster	67,860	67,413	54,787	36,743	53,106	69,223	46,210						
Calcined	1,407	2,590	5,018	6,642	3,587	2,330	1,537						
Anglo-Egyptian Sudan ..	—	—	125	173	231	214	(a)						
Kenya—													
Crude	(a)	(a)	(a)	525	—	470	—						
Southern Rhodesia—													
Crude and calcined ..	3,163	2,822	3,038	2,763	4,266	6,866	6,121						
South West Africa ..	11	27	19	21	18	24	(a)						
Union of South Africa—													
Crude and calcined ..	584	715	1,144	1,111	992	527	(a)						
Canada (b)—													
Crude and ground ..	793	3,331	7,924	921	505	757	1,518						
Calcined	2,575	6,815	8,992	8,887	7,796	20,035	13,978						
Newfoundland (c)—													
Crude and calcined ..	270	360	383	243	(c)	(c)	(c)						
Hong Kong (total imports)	(a)	271	189	2,426	89	3,838	5,700						
Palestine—													
Crude and calcined ..	5	93	(a)	(a)	(d)	(d)	(d)						
Australia (e)	9	2	1	6	7	132	10						
New Zealand—													
Crude	14,865	24,374	29,206	26,956	38,369	28,310	15,214						
Calcined	4,073	1,180	6,007	4,739	9,293	8,427	7,057						
Irish Republic—													
Calcined, etc.	566	431	380	395	667	1,015	651						
FOREIGN COUNTRIES													
Belgium-Luxemburg E.U.—	(a)	(a)	(a)	202,419	162,416	201,587	257,752						
Crude	(a)	(a)	(a)	33,500	30,367	42,704	39,496						
Ground and calcined ..													
Czechoslovakia—													
Crude and ground ..	(a)	4,076	16,720	(f) 30,291	(a)	(a)	(a)						
Calcined	(a)	6,452	14,980	(f) 15,255	(a)	(a)	(a)						
Denmark—													
Crude	1,686	20,845	21,690	25,786	14,663	35,684	32,713						
Calcined	367	5,232	10,167	11,820	31,663	4,970	4,235						
Finland (total imports)—													
Crude	16	5,129	22,728	24,597	22,389	31,907	41,207						
Calcined	516	3,758	1,674	4,594	8,338	15,006	18,463						
France—													
Crude and calcined ..	3,032	3,326	5,678	1,052	346	279	391						
Germany (Federal)—													
Gypsum and phosphatic													
gypsum	(a)	(a)	(a)	52	53	904	178						
Iceland	84	31	(a)	(a)	115	16	29						
Netherlands—													
Crude	} (a)	{ 14,264	28,342	22,692	21,293	29,499	28,119						
Calcined								15,368	15,450	21,229	24,356	28,865	31,117
Ground								47,018	50,779	8,489	8,158	8,613	8,865

(a) Information not available.

(b) Including Newfoundland from April 1, 1949.

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

(d) See "Israel" under Foreign Countries.

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

(f) January to October only.

IMPORTS OF GYPSUM (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Norway—							
Crude	2,041	15,931	15,966	15,567	21,132	20,058	} 29,964
Ground	231	2,834	2,174	2,336	2,975	2,973	
Portugal—							
Crude	4,616	8,100	6,205	5,172	7,972	2,838	5,496
Calcined	3	9	12	9	8	7	13
Sweden—							
Crude	1,613	63,129	59,200	73,741	43,438	72,880	64,141
Calcined	1,907	7,207	11,189	10,647	8,538	10,827	13,173
Switzerland—							
Ground and calcined ..	30	27	91	193	105	181	210
Algeria—							
Calcined	89	93	149	149	741	2,100	1,955
Egypt—							
Crude and ground ..	—	—	21	522	984	1,143	(a)
Calcined	415	(b) 639	612	902	859	(a)	(a)
Morocco (French) ..	119	697	1,207	(a)	(a)	(a)	(a)
Morocco (Spanish) ..	93	128	85	(a)	(a)	(a)	(a)
Mozambique—							
Crude	456	648	976	1,767	2,431	186	1,713
Calcined	171	32	70	104	85	41	52
Tunis—							
Calcined	9	20	21	16	39	(a)	(a)
Costa Rica	20	28	(a)	26	(a)	(a)	(a)
Cuba (total imports) ..	1,982	(a)	(a)	1,820	2,762	(a)	(a)
United States—							
Crude	454,252	1,301,018	1,925,937	2,552,865	2,315,472	2,848,750	3,078,640
Ground	206	316	426	361	547	639	514
Calcined	60	228	116	10	187	212	269
Argentina	23	63	(a)	(a)	(a)	(a)	(a)
Brazil—							
Crude	227	252	200	155	141	(a)	(a)
Ground	154	161	290	179	150	(a)	(a)
Chile	25	12	(a)	(a)	(a)	(a)	(a)
Colombia—							
Ground	256	1,116	(a)	55	548	151	(a)
Peru—							
Crude	15	11	(a)	(a)	(a)	(a)	(a)
Calcined	10	13	(a)	(a)	(a)	(a)	(a)
Uruguay—							
Ground	8,737	8,433	15,771	5,754	13,913	13,442	(a)
Venezuela	360	107	641	1,043	(a)	(a)	(a)
Israel—							
Crude	(c)	(c)	(c)	(c)	839	480	(a)
Calcined	(c)	(c)	(c)	(c)	25	96	(a)
Japan	—	—	—	9,165	(a)	(a)	12,090
Syria and Lebanon ..	1,193	269	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

(b) Total imports.

(c) See "Palestine" under British Countries.

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

(Long tons)

Producing Country	ORE											Estimated Iron Content		
	1945	1946	1947	1948	1949	1950	1951	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES														
United Kingdom (b) ..	14,174,900	12,172,800	11,090,900	13,089,200	13,896,700	12,835,800	14,647,100	4,096,000	3,518,000	3,217,000	3,927,000	4,019,000	3,881,000	4,394,000
Northern Rhodesia ..	75	159	1,504	147	1,721	—	—	40	80	750	84	1,111	—	—
Sierra Leone (d) ..	705,799	633,194	744,890	868,023	985,353	1,073,814	1,071,788	394,000	378,000	438,000	510,000	580,000	644,000	643,000
Southern Rhodesia ..	—	—	(c) 282	29,997	50,872	56,312	51,026	—	—	160	17,250	28,100	32,400	29,000
Union of South Africa ..	852,515	931,879	1,143,779	1,145,350	1,232,423	1,170,465	1,398,702	532,000	646,000	713,000	688,000	737,000	701,000	833,000
Canada ..	1,013,789	1,383,503	1,718,720	1,104,682	3,281,336	3,218,983	4,228,741	560,000	760,000	940,000	660,000	1,805,000	1,770,000	2,323,000
Newfoundland ..	967,062	1,217,112	1,443,410	1,468,036	3,281,336	3,218,983	4,228,741	503,000	698,000	751,000	777,000	(a)	(a)	(a)
Hong Kong ..	—	—	—	808	59,181	169,374	180,684	—	—	(a)	(a)	(a)	(a)	(a)
India ..	2,264,184	2,407,682	2,498,459	2,284,587	2,808,522	2,968,194	3,656,651	1,450,000	1,540,000	1,800,000	1,460,000	1,900,000	1,900,000	2,340,000
Malaya ..	13,376	—	868	641	8,390	498,903	846,803	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Australia ..	1,529,371	1,818,216	1,845,529	2,042,005	1,460,231	2,364,699	2,428,723	1,010,000	1,210,000	1,420,000	1,224,000	1,020,000	1,417,600	1,457,000
New Zealand (c) ..	6,067	7,408	6,226	4,776	4,352	3,642	2,496	2,500	3,000	2,500	1,900	1,700	1,400	1,000
TOTAL ..	21,600,000	20,586,000	20,800,000	22,038,000	23,279,000	24,457,000	28,493,000							
FOREIGN COUNTRIES														
Austria ..	313,900	452,837	870,881	1,178,342	1,464,121	1,830,046	2,332,246	(a)	155,000	300,000	353,000	450,000	571,000	740,000
Belgium ..	29,300	42,173	89,377	90,144	43,286	48,335	78,000	10,000	13,000	20,000	23,000	180,000	13,400	27,000
Czechoslovakia ..	272,000	1,098,000	1,346,000	1,404,500	1,450,000	1,550,000	1,730,000	80,000	350,000	404,000	420,000	435,000	468,000	519,000
France ..	7,890,948	13,973,853	18,422,877	22,686,561	30,932,000	28,542,000	34,632,000	2,312,000	4,942,030	6,003,000	7,436,000	10,310,000	9,830,000	11,850,000
Germany ..	(a)	3,843,023	4,371,916	7,150,676	8,967,900	10,711,980	12,719,000	(a)	930,000	1,017,000	1,980,000	2,397,000	2,893,000	3,419,000
Federal Republic ..	(a)	(a)	279,000	300,944	301,956	395,000	451,893	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Russian Zone ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Greece ..	15,000	15,000	240,300	818,000	834,000	7,706	459,829	16,000	42,000	84,000	127,000	180,000	140,000	160,000
Hungary ..	47,000	131,000	240,300	557,070	570,666	447,066	530,969	(a)	75,000	120,000	238,000	270,000	293,000	355,000
Italy ..	132,116	147,407	247,565	357,911	471,894	538,308	538,277	388,000	665,000	593,000	690,000	1,113,000	1,054,000	1,265,000
Luxembourg ..	1,323,673	2,210,451	1,965,763	3,343,587	4,071,834	3,784,308	5,338,277	(a)	85,000	79,000	122,000	173,000	1,054,000	1,544,000
Norway ..	77,268	86,025	123,780	196,131	270,844	293,705	324,876	48,000	55,000	79,000	122,000	173,000	1,054,000	1,544,000
Poland ..	104,000	386,224	486,487	649,000	688,000	780,000	887,000	86,000	130,000	170,000	216,000	240,000	260,000	280,000

* For detailed figures see page 137.

(a) Information not available.
(b) In addition bog ore and iron ore (not used for smelting) were produced as follows:—
1945 5,791 long tons.
1946 6,638 ..
1947
1948

(c) Used mainly or entirely for purposes other than iron production.
(d) Marketable ore only. Washed fines are excluded.
(e) Estimated

PRODUCTION OF IRON ORE (Cont.)

Producing Country	ORE										Estimated Iron Content				
	1945	1946	1947	1948	1949	1950	1951	1945	1946	1947	1948	1949	1950	1951	
FOREIGN COUNTRIES															
Portugal	—	49	—	159	217	389,000	21,045	—	25	—	80	108	—	10,523	
Roumania (b)	(a)	105,000	119,000	206,000	319,000	1,095,000	470,000	—	47,000	54,000	92,000	144,000	175,000	212,000	
Spain	1,152,868	1,570,984	1,490,001	1,604,872	1,846,662	2,095,580	2,276,982	520,000	710,000	670,000	720,000	830,000	943,000	1,025,000	
Sweden	3,867,534	6,758,750	8,754,067	13,077,266	13,512,054	13,395,062	15,147,929	2,398,000	4,238,000	5,479,000	8,075,000	8,292,000	8,152,000	9,089,000	
Switzerland	—	52,454	63,734	85,400	89,000	54,000	86,400	9,000	28,000	(a)	42,000	(a)	(a)	(a)	
U.S.S.R. (b)	20,000,000	22,000,000	26,000,000	31,000,000	35,000,000	44,000,000	50,000,000	(a)	(a)	(a)	(a)	(a)	(a)	(a)	
Yugoslavia	(a)	393,000	727,000	865,000	822,000	812,813	572,170	(a)	177,000	327,000	389,000	370,000	365,000	257,000	
Algeria	1,183,350	1,644,850	1,533,448	1,841,964	2,497,400	2,592,200	2,778,100	620,000	895,000	830,000	978,000	1,350,000	1,370,000	1,445,000	
Egypt	—	1	—	383	212	61	843	(a)	(a)	(a)	(a)	(a)	(a)	(a)	
Liberia	—	—	—	—	—	—	(b) 170,000	(a)	(a)	(a)	(a)	(a)	(a)	(a)	
Morocco (French)	102	122,327	153,841	296,500	351,183	316,001	541,123	50	57,000	70,000	133,000	188,000	144,000	116,000	
Morocco (Spanish)	708,700	806,800	888,300	866,281	878,754	937,666	912,415	430,000	450,000	500,000	550,000	536,000	620,000	246,000	
Tunis	130,358	180,800	397,310	685,100	700,700	745,900	908,200	68,000	94,000	200,000	378,000	378,000	403,000	608,000	
Cuba	—	—	36,755	22,588	11,268	1,279	(a)	(a)	(a)	12,500	7,800	3,900	440	485,000	
Mexico	278,062	271,095	327,195	332,000	357,000	413,000	450,000	172,389	168,079	222,494	225,459	242,679	281,000	307,644	
United States (c)	89,736,084	71,898,812	94,140,051	102,200,425	85,900,300	99,016,429	117,536,000	46,000,000	36,000,000	47,000,000	51,000,000	49,000,000	49,000,000	58,000,000	
Argentina	698	(a)	(a)	(a)	(a)	(a)	(a)	400	(a)	(a)	(a)	(a)	(a)	(a)	
Uruguay	639,943	573,316	601,351	1,846,844	1,857,829	1,956,000	3,024,204	420,000	370,000	390,000	1,050,000	1,260,000	1,330,000	1,330,000	
Brazil	272,531	1,188,462	1,710,111	2,668,125	2,699,593	195,159	1,249,559	170,300	726,000	1,067,000	1,655,000	1,637,000	1,743,000	1,930,000	
Chile	—	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	
Venezuela	31,000	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	
China	—	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	
French Indo-China	—	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	
Japan (d)	1,308,000	548,792	491,151	549,896	781,574	912,619	1,081,984	3,200	270,000	250,000	280,000	400,000	484,000	578,000	
Yokohama	819,798	(e)	(e)	(e)	(e)	(e)	(e)	(e)	(e)	(e)	(e)	(e)	(e)	(e)	
Philippine Republic	(a)	(a)	(a)	18,000	364,326	589,633	869,241	(a)	(a)	(a)	(a)	(a)	(a)	(a)	
Portuguese India	(a)	(a)	(a)	8,000	(a)	(a)	429,397	(a)	(a)	(a)	(a)	(a)	(a)	(a)	
Sierra Leone	(a)	(a)	(a)	(a)	(a)	(a)	6,480	(a)	(a)	(a)	(a)	(a)	(a)	(a)	
Tanzania	(a)	(a)	(a)	(a)	(a)	(a)	229,902	(a)	(a)	(a)	(a)	(a)	(a)	(a)	
New Caledonia	123,283	110,438	143,320	165,170	214,599	256,000	222,244	74,000	66,000	87,000	100,000	129,000	143,000	111,000	
TOTAL	135,000,000	133,000,000	166,000,000	195,000,000	197,000,000	221,000,000	260,000,000	—	—	—	—	—	—	—	
World's Total	157,000,000	154,000,000	187,000,000	217,000,000	220,000,000	246,000,000	288,000,000	—	—	—	—	—	—	—	

(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): 1945—267,110; 1946—8,641; 1947—2,551; 1948—2,460; 1949—32,599; 1950—99,940; 1951—210,545.

(e) Southern Korea only.

DETAILS OF PRODUCTION OF IRON ORE IN CERTAIN COUNTRIES

Producing Country	1945	1946	1947	1948	1949	1950	1951	
BRITISH COUNTRIES								
United Kingdom—								
West Coast hematite ..	405,800	379,100	368,600	325,200	350,100	342,700	347,400	
Jurassic ironstones—								
Lower lias	2,688,500	2,660,500	2,615,800	3,167,200	3,207,100	3,127,700	3,250,800	
Middle lias	3,171,900	2,343,400	2,003,800	2,537,400	2,665,600	2,557,600	3,393,400	
Inferior oolite ..	7,759,300	6,657,900	5,984,200	6,967,000	7,071,200	6,804,300	7,558,200	
Coal measure ironstones	6,800	5,600	2,200	200	300	200	—	
Other iron ore (hematite, limonite, etc.) ..	142,600	126,300	116,300	92,200	102,400	103,300	97,300	
Union of South Africa—								
Hematite	} 824,829	899,838	1,105,800	1,101,854	1,161,543	1,101,560	(a)	
Siliceous hematite ..		2,717	—	—	527	—	(a)	
Magnetite		22,644	29,324	37,979	43,496	60,353	68,905	(a)
Carbonate		(a)	129,538	222,368	534,661	512,616	435,138	507,217
Canada (b) —								
Siderite (sintered) ..	462,000	552,000	508,000	(a)	(a)	(a)	(a)	
Hematite	486,000	888,000	1,206,000	(a)	(a)	(a)	(a)	
Newfoundland—								
Hematite	967,062	(a)	(a)	(a)	(a)	(a)	(a)	
FOREIGN COUNTRIES								
France—								
Phosphoric	7,253,695	15,195,689	17,295,104	21,196,614	29,060,314	27,807,440	32,292,401	
Medium phosphoric ..	208,568	611,468	860,561	1,256,801	1,594,978	1,540,670	2,131,842	
Non-phosphoric	128,685	168,698	267,212	243,246	276,312	193,653	228,582	
Italy—								
Iron ore	(a)	129,538	222,368	534,661	512,616	435,138	507,217	
Manganiferous iron ore	(a)	17,869	20,217	23,050	28,040	22,828	23,782	
Luxemburg—								
Siliceous iron ore ..	728,920	1,287,706	1,143,433	1,375,086	1,535,401	1,477,261	1,877,341	
Calcareous iron ore ..	589,915	802,210	698,762	1,794,503	2,403,628	2,221,572	3,499,369	
Ferruginous limestone ..	64,838	121,505	118,508	175,998	132,955	85,535	159,567	
Poland—								
Hematite	} (a)	7,500	9,190	(a)	(a)	(a)	(a)	
Magnetite		21,578	39,052	(a)	(a)	(a)	(a)	
Siderite		—	9,243	(a)	(a)	(a)	(a)	
Limonite		35,944	38,094	(a)	(a)	(a)	(a)	
Argillaceous iron ore ..		293,747	376,928	(a)	(a)	(a)	(a)	
Bog iron ore		30,455	23,980	(a)	(a)	(a)	(a)	
Portugal—								
Hematite	—	49	—	159	217	—	21,045	
Magnetite	—	—	—	—	—	—	—	
Sweden—								
Manganiferous iron ore	67,656	130,538	84,465	90,482	113,964	50,096	(a)	
Other iron ore	3,799,878	6,628,212	8,669,602	12,986,784	13,398,090	13,345,966	(a)	
By phosphorus content (c)—								
Under 0.006%	570,139	492,460	496,611	522,682	566,187	671,284	(a)	
0.006% to under 0.04% ..	1,021,255	1,669,400	1,840,918	2,095,515	2,049,273	2,344,547	(a)	
0.04% to under 0.1%	141,056	113,465	121,640	78,933	68,217	74,797	(a)	
0.1% to under 0.7%	1,319,140	2,204,305	2,896,585	4,305,110	4,605,595	4,796,404	(a)	
0.7% to under 1%	465,268	765,104	792,445	1,037,628	976,459	1,016,174	(a)	
1% and over	350,676	1,514,016	2,605,868	5,037,398	5,246,323	4,492,856	(a)	
Algeria—								
Non-phosphoric	1,183,850	1,644,850	1,531,448	1,841,964	2,497,400	2,532,200	2,779,100	
Tunis—								
Non-phosphoric	130,358	180,800	397,310	685,100	700,700	745,900	908,200	

(a) Information not available.

(b) Shipments. These figures do not agree with those on page 135 which refer to actual production.

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

DETAILS OF PRODUCTION OF IRON ORE (Cont.)

Producing Country	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
United States—							
Ore containing less than 5% Mn—							
Hematite*	81,294,688	65,728,172	84,535,465	90,686,138	76,262,577	87,157,960	101,541,000
Magnetite*	5,620,810	3,920,986	6,811,876	7,661,207	6,593,277	7,697,029	11,388,000
Limonite	942,910	686,402	1,201,408	2,176,149	1,545,595	2,615,402	3,007,000
Siderite	545	650	48	—	—	—	—
Pyrite cinder and sinter	517,440	506,903	542,723	479,998	535,998	574,969	569,000
Ore containing 5 to under 10% Mn	1,257,613	955,977	933,001	1,070,110	939,492	868,150	936,000
Ore containing 10 to under 35% Mn	102,078	89,722	115,530	126,823	23,361	102,919	95,000

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

EXPORTS OF IRON ORE

(Domestic Produce)

(Long tons)

Exporting Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom	434	792	1,053	601	355	585	779
Sierra Leone	780,884	603,945	618,750	926,370	974,050	1,142,621	1,184,735
Union of South Africa ..	3	4	—	—	—	—	22,075
Canada (f)	688,835	1,022,550	1,562,479	955,604	2,277,053	1,988,817	2,880,149
Newfoundland	1,006,429	1,250,031	1,258,020	1,731,828	(g)	(g)	(g)
Hong Kong	(a)	(a)	(a)	—	48,535	171,718	171,362
India	—	—	20	—	4,300	55,322	197,005
Malaya	(a)	3	—	69,539	462,431	520,899	782,665
Australia	5	4	14	40	1	—	—
Irish Republic—							
Bog ore	5,224	2,619	2,141	1,613	(a)	(a)	(a)
Burnt pyrites	16,026	7,996	4,325	15,291	12,489	33,983	26,402
FOREIGN COUNTRIES							
Austria	(a)	(a)	34,436	2,792	—	57,360	177,853
Belgium-Luxemburg E.U.	485	2,560	22,637	438,022	292,167	101,601	200,160
Czechoslovakia	(a)	48,251	15,730	(b) 126,589	(a)	(a)	(a)
Finland	1	479	—	—	—	—	816
France	1,643,500	5,344,790	6,493,478	6,210,922	7,120,329	7,425,791	9,682,472
Germany (Federal)	(a)	(a)	(a)	231	5,830	51,259	75,223
Greece	—	12,385	40,458	48,935	21,500	40,564	84,920
Italy—							
Iron ore	(a)	(a)	274	4,407	60	9,182	69,473
Burnt iron pyrites	(a)	(a)	14,169	281,120	309,746	497,295	411,353
Netherlands—							
Iron ore	—	—	—	72,030	66,357	57,521	(a)
Burnt iron pyrites	(a)	99,527	97,651	221,941	193,849	244,337	318,787
Norway—							
Iron ore	42,877	4,938	50,358	180,093	200,313	278,563	264,830
Burnt iron pyrites	1,181	3,891	11,846	23,539	36,505	31,912	61,103
Portugal	—	1,084	509	10	3	1	(a)
Spain	256,625	776,476	718,269	804,418	973,917	920,742	1,525,465
Sweden—							
Iron ore	1,209,510	5,231,688	8,369,916	11,335,971	12,581,280	12,744,488	14,760,143
Burnt iron pyrites	(a)	60,321	16,079	122,866	17,271	113,314	244,987
Switzerland	11,693	78,667	69,454	122,097	90,861	53,370	98,525
Yugoslavia	(a)	(a)	(a)	(a)	(a)	333,047	276,679
Algeria	1,343,531	1,560,759	1,523,741	2,157,320	2,598,290	2,433,678	2,796,408
Liberia	—	—	—	—	—	—	170,000
Morocco (French)	6,889	93,500	176,370	200,089	356,539	308,913	544,404
Morocco (Spanish)	703,633	806,723	888,401	(d) 723,652	(d) 645,450	(d) 713,833	(d) 692,925
Tunis (e)	1,336	172,477	351,848	739,926	726,943	690,177	896,000
Cuba	162	(a)	(a)	34,498	10,599	12,400	12,400
Mexico	44,105	9,661	64,347	157,197	170,918	189,032	172,524
United States	2,063,125	1,505,771	2,806,894	3,080,666	2,424,775	2,549,704	4,295,938
Brazil	295,256	63,396	193,630	589,824	664,905	876,067	(a)
Chile	214,070	1,165,100	1,719,409	2,583,542	2,633,047	2,554,901	2,644,169
Venezuela (h)	—	—	—	—	—	—	635,416
China	(e) 14,763	—	—	192,790	(a)	(a)	(a)
Korea (e)	122,042	(a)	(a)	(a)	(a)	(a)	(a)
Manchuria (e)	4,921	(a)	(a)	(a)	(a)	(a)	(a)
Philippine Republic (e) ..	—	—	—	21,606	(a)	(a)	(a)
Portuguese India	—	—	13	5,335	48,781	(a)	(a)
New Caledonia	—	—	—	—	—	4,985	2,923

(a) Information not available.

(b) January to October only.

(c) Including re-exports.

(d) Exports via the Port of Melilla.

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

(f) Including Newfoundland from April 1, 1949.

(g) Included with Canada from April 1, 1949.

(h) Imports into the United States.

IMPORTS OF IRON ORE

(Less Re-exports)

(Long tons)

Importing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom	4,068,218	6,594,556	6,797,205	8,674,896	8,692,572	8,391,533	8,747,480
Canada	3,339,167	2,037,212	3,521,919	3,839,431	2,247,531	2,741,560	3,420,909
Trinidad and Tobago ..	50	—	—	—	—	—	—
India	—	54	39	1,519	365	207	533
Australia	—	—	—	23	8	5,302	2,916
Irish Republic	—	65	—	387	—	174	576
FOREIGN COUNTRIES							
Austria—							
Iron ore	(a)	(a)	30,263	136,331	268,956	194,666	193,151
Burnt pyrites	(a)	(a)	24,632	277,502	305,344	388,111	342,553
Belgium-Luxemburg E.U.							
Iron ore	} 1,816,149	5,889,794	6,676,383	8,602,386	{ 8,926,738	8,123,841	10,569,420
Burnt iron pyrites ..								20,539	38,699	67,672
Czechoslovakia—							
Iron ore	(a)	1,276,875	1,813,924	b 1,570,635	(a)	(a)	(a)
Burnt pyrites	(a)	(a)	55,506	(b) 20,297	(a)	(a)	(a)
Denmark	—	294	2,273	1,906	1,854	1,102	2,413
Finland (c)	35,325	79,837	77,768	149,032	109,219	91,947	176,908
France	49,894	96,714	185,707	251,852	389,533	165,340	315,251
Germany (Federal) ..	(a)	(a)	(a)	2,390,786	4,446,739	4,793,335	7,580,102
Hungary (including burnt pyrites)	(a)	122,852	569,514	(a)	(a)	(a)	—
Italy	(a)	(a)	17,591	25,957	109,433	180,959	395,657
Netherlands	(a)	210,455	477,403	741,352	705,653	799,231	987,873
Norway	4,027	31,177	34,846	37,583	38,656	15,696	817
Poland	228,970	964,430	1,181,378	1,590,827	(a)	(a)	(a)
Spain	76,782	105,448	133,623	148,464	220,090	234,958	224,047
Sweden	3	907	909	498	455	484	(a)
Switzerland (d)	36,709	86,227	52,301	69,103	37,378	60,335	95,889
Algeria	10	1,719	4,057	—	—	—	986
Tunis	—	97	787	—	(a)	(a)	(a)
United States	1,193,711	2,746,600	4,889,326	6,086,070	7,394,569	8,215,865	10,145,415
Japan	(e) 141,726	—	—	522,798	1,535,453	1,438,206	3,040,010

(a) Information not available.

(b) January to October only.

(c) Total imports.

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

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

PRODUCTION OF PIG-IRON AND FERRO-ALLOYS*

(Long tons)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom	7,107,400	7,761,200	7,784,600	9,276,400	9,498,500	9,632,900	9,668,800
Southern Rhodesia	—	—	—	16,434	27,268	33,453	31,641
Union of South Africa	546,879	551,161	632,053	640,803	697,322	721,339	791,840
Canada	1,740,706	1,380,039	1,955,331	2,105,780	2,104,087	2,230,018	2,503,196
India	1,405,042	1,438,054	1,435,396	1,464,623	1,610,822	1,680,481	1,823,946
Australia (b)	1,159,483	932,576	1,186,657	1,258,804	1,060,346	1,111,651	1,335,244
TOTAL	11,959,000	12,064,000	12,994,000	14,763,000	14,998,000	15,409,800	16,154,700
FOREIGN COUNTRIES							
Austria	99,946	56,950	274,109	603,527	824,517	869,145	1,032,862
Belgium	722,978	2,126,703	2,772,293	3,866,937	3,690,076	3,636,420	4,770,705
Czechoslovakia	567,000	945,000	1,400,000	(c)1,624,000	(c)1,853,000	(c)2,020,000	(c)2,120,000
Finland	36,222	75,871	62,147	91,110	99,619	63,259	99,919
France	1,178,235	(d)3,389,493	(d)4,808,548	(d)6,454,956	(d)8,213,135	d7,638,292	(d)8,611,726
Germany—							
Federal Republic	(a)	2,050,511	2,228,200	4,589,360	7,027,400	9,323,263	10,528,000
Russian Zone	(a)	127,000	137,000	179,000	288,000	332,000	336,000
Hungary	43,000	157,800	298,800	(c) 395,000	(c) 430,000	(c) 500,000	(c) 600,000
Italy	73,964	201,305	377,877	517,763	437,970	563,827	1,032,735
Luxemburg	313,000	1,343,400	1,789,300	2,852,741	2,334,616	2,459,418	3,107,207
Netherlands	24,600	184,200	285,600	434,500	427,300	447,049	515,486
Norway	50,190	133,271	162,709	211,328	229,920	222,923	241,064
Poland	(f) 227,000	714,274	853,426	(c)1,189,000	(c)1,343,000	(c)1,464,000	(c)1,552,000
Roumania (c)	(e) 53,011	54,000	90,000	188,000	270,000	330,000	344,000
Saar	(a)	242,577	642,594	1,116,460	1,557,065	1,657,205	2,332,197
Spain	481,739	500,022	510,351	528,214	614,204	655,966	654,760
Sweden	772,905	707,975	713,125	790,894	846,174	823,848	890,128
Switzerland	4,000	13,230	14,400	35,000	31,000	33,000	43,000
U.S.S.R.	8,800,000	9,900,000	11,300,000	13,800,000	16,400,000	19,100,000	21,800,000
Yugoslavia	11,000	83,000	160,000	170,000	190,000	209,000	244,000
Mexico	214,874	277,785	332,201	278,617	350,141	240,430	196,951
United States	49,034,847	41,531,095	53,676,178	55,278,178	49,032,844	59,285,992	64,686,199
Brazil	255,803	364,867	473,333	543,098	500,192	717,519	759,830
Chile	6,739	(a)	11,030	14,210	18,413	107,750	236,000
China	22,200	1,305	(a)	(a)	(c) 190,000	(c) 830,000	(c)1,100,000
Japan	965,000	208,440	361,153	822,520	1,576,894	2,262,437	3,176,600
Turkey	68,426	76,670	97,464	100,419	114,862	109,462	111,691
TOTAL	66,000,000	66,000,000	84,000,000	97,000,000	98,000,000	116,000,000	131,000,000
WORLD'S TOTAL..	78,000,000	78,000,000	97,000,000	111,000,000	113,000,000	131,000,000	147,000,000

* For details see page 142.

(a) Information not available.

(b) Years ended June 30 of that stated.

(c) Estimated.

(d) Excluding electric furnace ferro-alloys.

(e) United States Bureau of Mines.

(f) February to December only.

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

(Long tons)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Hematite	1,076,200	1,121,000	1,116,500	1,366,400	1,437,300	1,476,800	1,333,000
Basic	4,883,700	5,288,300	5,183,300	6,255,500	6,248,200	6,478,000	6,674,700
Foundry	964,000	1,134,500	1,281,800	1,395,600	1,555,300	1,466,500	1,417,100
Forge	51,900	65,900	70,300	92,800	87,400	60,500	69,500
Castings	300	1,400	1,000	2,600	2,300	3,000	2,200
Spiegeleisen (b) .. .	26,600	35,300	28,700	31,500	28,800	18,100	28,800
Ferro-manganese (b) .. .	104,700	114,800	103,000	132,000	139,200	130,000	143,500
Other ferro-alloys (c)—							
Tungsten (d)	2,700	2,000	3,100	2,600	2,000	1,700	(a)
Molybdenum (d) .. .	800	600	1,100	1,200	1,400	1,600	
Vanadium (d) .. .	200	200	300	300	200	300	
Ferro-chrome	6,500	7,400	6,800	9,700	9,800	9,900	
Refined ferro-manganese	3,600	4,100	3,800	5,300	6,400	6,000	
Ferro-phosphorus .. .	—	500	1,100	1,100	1,100	900	
Ferro-silicon	6,000	6,500	6,300	7,500	5,500	4,600	
Canada—							
Basic	1,268,040	989,995	1,417,191	1,555,012	1,598,508	1,574,500	1,775,617
Foundry	177,004	135,021	209,475	193,077	192,650	212,735	254,817
Malleable	142,410	130,566	125,877	149,893	132,490	281,623	248,718
Ferro-alloys	153,252	124,457	202,788	207,798	180,439	161,160	224,044
India—							
Basic	1,108,979	1,083,096	972,434	1,048,487	1,100,286	1,274,069	1,420,950
Foundry	247,165	263,642	347,219	356,398	427,575	290,451	287,209
Direct castings .. .	40,207	75,705	97,622	51,959	19,478	97,594	91,881
Ferro-alloys	8,691	15,611	18,121	7,779	63,483	18,367	23,906
FOREIGN COUNTRIES							
Belgium—							
Basic	612,402	1,980,804	2,592,764	3,605,582	3,509,329	3,508,173	4,549,220
Forge	15,777	36,130	44,427	59,888	16,864	10,865	
Foundry	91,403	97,200	123,144	183,171	149,935	106,251	
Ferro-alloys	3,396	12,569	11,958	18,296	13,948	11,131	
Finland—							
Pig-iron	34,464	75,537	61,932	90,321	98,511	63,259	99,919
Ferro-alloys	1,758	334	215	789	1,108	—	—
France—							
Phosphoric (over 1% P)—							
Basic	880,253	2,695,624	3,754,281	5,072,903	6,582,499	6,178,876	6,880,126
Foundry	88,043	204,075	291,646	393,018	369,120	281,576	347,504
Semi-phosphoric (from 0.12% to 1% P)—							
Foundry	20,887	23,687	45,146	129,497	222,228	275,933	360,071
Open hearth, basic .. .		651	22,790	9,983	13,234	46,332	47,188
Hematite (less than 0.12% P)—							
Foundry	77,463	128,724	173,624	210,082	242,976	218,619	196,318
Open hearth	77,537	229,656	299,608	319,752	337,931	193,401	262,291
Bessemer		—	—	—	—	—	—
Other pig-iron	—	(e) 62,053	(e) 109,267	(e) 162,919	(e) 216,615	(e) 171,733	(e) 259,817
Spiegeleisen	13,140	(f) 28,792	(f) 78,650	(f) 91,657	(f) 145,520	(f) 164,128	(f) 146,169
Ferro-manganese .. .	3,593	(f) 16,231	(f) 33,536	(f) 64,245	(f) 83,012	(f) 107,694	(f) 112,242
Ferro-silicon	11,720	—	—	—	—	—	—
Other ferro-alloys .. .	4,599	(g)	(g)	(g)	(g)	(g)	(g)

(a) Information not available.

(c) Excluded from totals on page 141.

(e) Including "other ferro-alloys."

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

(b) Blast furnace ferro-alloys.

(d) Metal content.

(f) Excluding electric furnace ferro-alloys.

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

Producing Country	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Germany (Federal)—							
Hematite	(a)	70,000	125,000	200,000	317,000	402,000	402,000
Malleable	(a)	15,000	15,000	68,000	108,000	156,000	217,000
Basic	(a)	1,457,000	1,291,000	2,943,000	4,593,000	5,755,000	6,419,000
Foundry	(a)	243,000	247,000	382,000	511,000	732,000	776,000
Siegerland Special	(a)	13,000	9,000	25,000	40,000	66,000	86,000
Stahleisen	(a)	206,000	501,000	855,000	1,299,000	1,966,000	2,220,000
Spiegeleisen	(a)	18,000	7,000	54,000	65,000	85,000	106,000
Other pig-iron	(a)	20,000	17,000	20,000	37,000	69,000	193,000
Ferro-manganese	(a)	6,000	—	7,000	31,000	63,000	72,000
Ferro-silicon	(a)	4,000	18,000	28,000	26,000	30,000	37,000
Italy—							
Pig-iron	60,960	173,903	312,983	442,267	386,639	495,812	937,570
Spiegeleisen	3,504	11,673	19,066	20,680	17,603	13,442	(a)
Ferro-manganese	1,750	7,603	20,312	17,854	14,720	15,228	(a)
Ferro-silicon	3,598	1,438	9,035	17,550	12,167	17,267	(a)
Ferro-silico-manganese	1,915	2,657	6,201	7,273	2,711	8,552	(a)
Ferro-chrome	1,043	62	1,078	1,226	1,312	1,163	(a)
Ferro-titanium	13	12	40	61	79	85	(a)
Ferro-tungsten	—	9	91	48	18	43	(a)
Ferro-vanadium	16	—	—	—	8	6	(a)
Ferro-molybdenum	—	9	7	78	132	133	(a)
Ferro-silico-aluminium	—	288	522	322	295	414	(a)
Other ferro-alloys	734	3,733	8,542	10,404	2,286	11,682	(a)
Luxemburg—							
Basic	298,000	1,343,400	1,788,300	2,542,462	2,323,304	2,454,030	3,107,207
Foundry	15,000	—	1,000	40,279	11,312	5,388	—
Norway—							
Pig-iron	33,336	71,907	73,424	62,403	60,712	62,407	53,207
Ferro-silicon	15,735	26,030	36,309	43,771	63,592	62,866	67,402
Other ferro-alloys	3,119	35,334	52,976	105,154	105,616	97,650	120,435
Poland—							
Open hearth	}	606,795	664,443	(a)	(a)	(a)	(a)
Foundry		61,536	136,888	(a)	(a)	(a)	(a)
Phosphoric		(a)	1,016	(a)	(a)	(a)	(a)
Hematite		21,705	(a)	(a)	(a)	(a)	(a)
Spiegeleisen		10,744	(a)	(a)	(a)	(a)	(a)
Ferro-alloys		12,478	11,599	(a)	(a)	(a)	(a)
Saar—							
Basic	(a)	226,615	596,422	1,011,933	1,436,680	1,553,124	2,154,999
Foundry—							
Hematite	(a)	—	1,561	18,127	30,521	17,657	30,624
Phosphoric	(a)	—	34,593	62,097	41,247	52,270	116,124
Other pig-iron and ferro-alloys	(a)	15,962	10,018	24,303	48,617	34,154	30,450
Spain—							
Pig-iron	471,333	483,307	495,355	513,319	599,949	641,829	635,663
Ferro-manganese	6,567	11,822	10,098	9,909	8,799	8,456	11,763
Ferro-silicon	3,803	4,783	4,783	4,878	5,362	5,681	6,933
Ferro-tungsten	36	110	115	108	94	70	35
Ferro-chrome	(a)	(a)	(a)	(a)	(a)	176	163
Ferro-silico-manganese	(a)	(a)	(a)	(a)	(a)	647	203
Sweden—							
Open hearth, acid	158,799	138,972	119,647	131,489	} 798,141	} 772,330	} 837,818
do. basic	237,916	173,622	191,027	206,466			
Bessemer, acid	15,038	12,419	9,250	13,173			
do. basic	211,384	173,795	200,372	200,024			
Foundry-hematite	28,787	43,507	35,223	64,921			
do. phosphoric	55,158	93,170	101,226	106,753			
do. other	1,469	2,683	3,784	3,388			
Forge	30,405	24,462	12,934	15,254			
Castings	10,376	12,890	13,364	12,893			

(a) Information not available.

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

Producing Country	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
<i>Sweden—continued</i>							
Spiegeleisen	290	579	650	—	129	320	1,268
Ferro-manganese	2,693	3,935	4,878	6,989	10,294	9,322	9,314
Ferro-silicon	7,356	8,339	6,259	11,902	14,186	14,108	13,862
Ferro-silico-manganese	4,468	3,734	2,982	3,708	4,489	5,431	2,879
Ferro-chrome	7,652	13,252	9,068	10,778	14,648	16,851	18,761
Ferro-titanium	38	5	42	37	56	53	25
Ferro-tungsten	343	898	1,686	1,482	1,525	1,217	815
Ferro-molybdenum	178	420	329	295	574	578	680
Ferro-vanadium	10	39	91	185	158	133	139
Other ferro-alloys	189	145	26	42	51	68	(a)
Metallic silicon etc.	167	—	287	1,113	1,910	3,429	(a)
Silico-chrome	237	1,009	—	—	13	8	(a)
Metallic chrome	—	—	—	2	—	—	(a)
United States—							
Basic	35,595,520	30,113,978	40,004,235	41,352,735	36,522,639	44,536,108	48,404,026
Bessemer	7,370,994	5,296,798	6,412,685	6,903,152	6,303,050	7,223,757	8,076,745
Low phosphorus	280,413	149,119	295,641	343,237	269,214	299,480	281,004
Foundry	2,007,935	2,273,157	2,636,969	2,472,777	2,235,636	2,505,578	2,723,773
Malleable	2,098,282	1,955,612	2,566,743	2,313,086	2,151,282	2,840,217	3,003,008
Other pig-iron	167,543	192,404	163,113	235,742	207,966	261,742	256,335
Ferro - manganese and spiegeleisen	630,427	482,197	714,933	718,762	602,705	693,643	773,040
Ferro-silicon	730,222	927,804	716,943	752,129	595,823	749,703	820,612
Other ferro-alloys	153,511	140,026	164,916	186,558	144,529	175,764	347,656
Japan—							
Pig-iron	945,000	195,260	349,300	795,262	1,524,228	2,197,645	3,077,700
Ferro-chrome				146			
Ferro-manganese				17,872			
Ferro-molybdenum				—			
Ferro-phosphorus				541			
Ferro-silicon	20,468	13,180	11,853	7,320	52,666	64,792	98,900
Ferro-titanium				18			
Ferro-tungsten				337			
Ferro-vanadium				—			
Other ferro-alloys				1,015			

(a) Information not available.

PRODUCTION OF STEEL INGOTS AND CASTINGS*

(Long tons)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom	11,824,400	12,695,300	12,724,500	14,876,600	15,552,900	16,292,700	15,638,500
Southern Rhodesia	—	—	—	8,988	19,287	22,838	27,321
Union of South Africa (g) ..	525,400	498,926	588,304	669,375	719,018	743,125	933,131
Canada	2,569,578	2,077,932	2,630,315	2,857,572	2,848,551	3,021,049	3,185,144
India	1,353,495	1,293,291	1,255,849	1,255,989	1,352,696	1,437,858	1,499,703
Australia (b)	1,395,065	1,089,237	1,341,601	1,380,195	1,213,627	1,255,050	1,476,173
TOTAL	17,668,000	17,654,000	18,541,000	21,049,000	21,706,000	22,772,600	22,721,700
FOREIGN COUNTRIES							
Austria	168,528	184,054	350,972	637,943	821,397	931,636	1,011,559
Belgium	737,328	2,260,299	2,836,365	3,858,050	3,788,322	3,717,743	4,924,953
Czechoslovakia	933,000	1,642,000	2,250,000	(d)2,608,000	(d)2,718,000	(d)2,963,000	(d)3,260,000
Finland	79,134	81,903	61,137	96,703	107,310	100,757	130,086
France	1,634,745	4,338,485	5,642,278	7,121,387	9,007,390	8,515,212	9,679,536
Germany—							
Federal Republic	(a)	{ 2,511,000	3,012,000	5,473,000	9,011,000	11,929,719	13,293,000
Russian Zone .. .. .								200,000	250,000	327,000	593,000	979,000	1,527,000
Hungary	126,400	347,300	587,400	750,000	835,000	1,006,000	1,215,000
Italy	388,521	1,135,078	1,676,918	2,091,583	2,023,035	2,325,119	3,014,594
Luxemburg	255,000	1,274,500	1,686,000	2,414,105	2,235,977	2,411,984	3,028,421
Netherlands	13,000	135,800	204,000	320,000	430,000	482,000	545,500
Norway	36,600	57,600	65,100	72,700	76,200	79,800	86,200
Poland	(c) 493,700	1,200,167	1,554,180	1,924,000	2,267,000	2,475,000	2,748,000
Roumania	(f) 115,870	155,000	180,000	(d) 335,000	(d) 452,000	(d) 549,000	(d) 636,000
Saar	(a)	286,233	696,979	1,208,307	1,729,551	1,868,327	2,561,575
Spain	566,856	630,259	598,071	614,204	708,263	805,309	806,246
Sweden	1,184,440	1,183,773	1,171,897	1,237,066	1,348,735	1,414,146	1,480,238
Switzerland	106,100	33,500	91,000	118,000	122,000	128,000	142,000
U.S.S.R. (h)	10,800,000	13,100,000	14,300,000	18,300,000	22,900,000	26,900,000	30,800,000
Yugoslavia (d)	66,000	200,000	305,000	361,000	395,000	421,000	427,400
Mexico	189,000	246,800	316,450	265,298	339,692	215,107	445,916
United States (e)	71,162,186	59,466,718	75,798,278	79,143,277	69,623,371	86,460,781	93,928,436
Brazil	202,683	337,202	380,859	475,455	595,889	767,155	828,485
China (d)	(a)	(a)	(a)	(a)	190,000	800,000	1,140,000
Japan	2,055,000	555,529	926,466	1,686,762	3,062,268	4,771,633	6,399,100
Turkey	63,174	78,632	91,100	100,119	101,367	89,351	133,270
TOTAL	93,000,000	91,000,000	114,000,000	132,000,000	135,000,000	163,000,000	184,000,000
WORLD'S TOTAL	110,700,000	108,700,000	132,600,000	153,000,000	157,000,000	186,000,000	207,000,000

* For details see page 146.

(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.

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

(h) Revised.

DETAILS OF PRODUCTION OF STEEL INGOTS AND CASTINGS IN CERTAIN COUNTRIES

(Long tons)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Ingots and castings—							
Open hearth, acid	1,159,100	1,228,600	1,228,800	1,398,300	1,367,000	1,310,700	1,259,400
do. basic	9,025,700	9,900,600	9,869,900	11,589,300	12,230,000	12,981,200	12,277,400
Bessemer, acid ..	170,700	209,800	207,900	218,300	226,400	247,800	241,400
do. basic ..	687,000	723,800	678,200	786,200	818,800	845,700	862,100
Ingots, electric ..	361,400	345,000	425,700	526,100	543,700	528,800	574,800
Castings, electric ..	180,600	134,300	150,000	180,800	196,000	207,600	244,500
All other ingots and castings ..	239,900	153,200	164,000	177,600	171,000	170,900	178,900
Southern Rhodesia—							
Ingots ..	—	—	—	8,003	18,242	21,678	26,125
Castings ..	—	—	—	985	1,045	1,160	1,196
Canada—							
Ingots—							
Open hearth, basic ..	2,142,730	1,694,606	2,177,294	2,340,130	2,400,032	2,474,859	2,605,245
do. electric ..	319,010	315,876	371,616	416,176	363,920	469,847	471,653
Castings—							
Open hearth, basic ..	27,871	21,934	21,518	30,394	25,599	20,079	28,110
Bessemer ..	842	536	662	353	71	207	246
Electric ..	79,125	44,980	59,225	70,519	58,929	56,057	79,890
India—							
Ingots—							
Open hearth, basic ..	1,198,639	1,160,347	1,134,519	1,140,567	1,225,813	1,307,518	1,387,618
do. acid ..	68,811	63,420	50,629	44,542	50,126	47,684	37,243
Electric ..	66,360	52,607	52,730	49,018	53,304	58,614	53,270
Castings ..	19,685	16,917	17,971	21,862	23,453	24,038	21,572
FOREIGN COUNTRIES							
Belgium—							
Ingots, open hearth ..	157,276	355,722	378,181	465,303	430,945	363,338	(b) 601,063
do. Bessemer, basic	542,603	1,835,752	2,349,232	3,247,487	3,212,876	3,243,932	4,196,725
do. electric ..	8,809	19,379	48,679	79,071	78,871	66,185	127,165
Castings ..	28,640	49,446	60,273	66,188	65,630	44,288	(c)
France—							
Ingots and castings—							
Bessemer, acid ..	32,397	54,264	58,617	70,467	103,660	73,879	75,442
do. basic ..	750,253	2,258,523	3,091,164	4,196,335	5,562,293	5,363,258	5,746,954
Open hearth, acid ..	701	—	1,357	—	1,793	—	6,214
do. basic ..	623,280	1,592,223	1,994,599	2,302,878	2,713,322	2,547,001	3,093,607
Crucible ..	3,384	3,246	4,249	4,268	2,649	2,119	3,686
Electric ..	224,730	430,229	492,292	547,439	623,673	528,955	753,633
Of which—							
Ingots ..	1,513,163	4,196,479	5,480,873	6,929,211	8,742,976	8,288,339	9,450,718
Castings ..	121,582	142,006	161,405	192,176	264,414	226,873	228,818
Germany (Federal)—							
Ingots—							
Open hearth ..	(a)	1,154,000	1,738,000	2,780,000	4,733,000	6,418,000	6,958,000
Bessemer, basic ..	(a)	1,277,000	1,153,000	2,469,000	3,993,000	4,968,000	5,597,000
Electric ..	(a)	19,000	46,000	105,000	128,000	214,000	307,000
Other ..	(a)	7,000	15,000	25,000	29,000	27,000	(d) 47,000
Castings—							
Open hearth ..	(a)	19,000	25,000	38,000	58,000	138,000	179,000
Bessemer ..	(a)	21,000	20,000	30,000	33,000	81,000	105,000
Electric ..	(a)	10,000	13,000	22,000	32,000	73,000	100,000
Other ..	(a)	4,000	2,000	4,000	5,000	11,000	(e)
Italy—							
Ingots ..	360,338	1,077,299	1,599,638	2,011,491	1,945,573	2,239,242	2,916,630
Castings ..	28,183	57,779	77,280	80,092	77,462	85,877	97,964

(a) Information not available.

(b) Including castings.

(c) Included with ingots.

(d) Including "other castings".

(e) Included with "other ingots".

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

Producing Country	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Luxemburg—							
Open hearth	—	1,000	1,000	267	59	—	—
Bessemer, basic	254,000	1,262,700	1,660,400	2,363,930	2,191,107	2,347,441	2,958,858
Electric	1,000	10,800	24,600	49,908	44,811	64,543	69,563
Norway—							
Ingots	32,200	49,600	56,700	64,300	67,900	71,000	77,200
Castings	4,400	8,000	8,400	8,400	8,300	8,800	9,000
Poland—							
Ingots	(a)	1,180,845	(a)	(a)	(a)	(a)	(a)
Castings	(a)	19,322	(a)	(a)	(a)	(a)	(a)
Saar—							
Ingots—							
Open hearth	(a)	82,087	169,684	290,913	416,060	437,205	553,118
Bessemer basic	(a)	199,109	512,907	882,256	1,267,884	1,385,420	1,937,479
Electric	(a)	1,447	8,492	20,510	25,524	23,555	46,766
Castings—							
Open hearth	(a)	286	658	1,696	2,066	2,430	2,904
Bessemer acid	(a)	1,518	2,098	3,303	3,280	2,768	3,793
Electric	(a)	1,786	3,140	9,629	14,737	16,949	17,515
Spain—							
Open hearth and Bessemer	527,137	572,655	550,557	561,175	657,135	718,479	707,735
Electric	39,719	57,604	47,514	53,029	51,128	86,830	98,511
Sweden—							
Open hearth, acid	174,782	182,450	179,081	180,043	203,661	198,884	211,038
do. basic	527,298	501,062	473,047	486,618	472,946	496,145	494,249
Bessemer, acid	17,953	21,493	23,567	27,563	27,317	27,857	28,236
do. basic	109,038	92,362	122,097	117,782	129,654	115,628	143,076
Electric	355,368	386,406	374,105	425,060	515,157	575,632	603,639
United States—							
Ingots—							
Open hearth, acid	632,123	418,175	482,149	479,494	364,604	425,362	540,169
do. basic	63,389,125	53,624,948	67,984,704	70,178,624	62,221,385	76,429,590	82,423,536
Bessemer	3,844,035	2,971,194	3,779,056	3,788,547	3,523,800	4,048,712	4,366,916
Crucible	20						
Electric	3,019,356	2,213,450	3,286,177	4,440,724	3,292,033	5,292,419	6,288,720
Castings (b)—							
Open hearth, acid	144,418	117,238	111,177	78,814	87,801	111,118	155,430
do. basic	66,122	46,747	59,284	102,494	48,355	54,027	65,256
Electric	66,987	74,964	95,729	74,580	85,393	99,553	88,409
Japan—							
Open hearth		161,650	474,944	1,141,851	2,386,900	3,838,400	5,290,000
Electric	2,055,000	393,879	451,522	544,911	599,000	740,500	916,100
Other	—	—	—	—	75,800	191,300	193,000

(a) Information not available.

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

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

(Domestic Produce)

(Long tons)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Pig-iron—							
Forge and foundry ..	1,038	30,757	41,750	1,072	3,459	15,490	3,641
Refined	(a)	(a)	(a)	429	6,401	16,574	11,986
Other	—	1,352	771	3	21	3,355	340
Spiegeleisen and ferro-							
manganese							
.. .. .	31,729	58,636	9,069	3,236	9,267	2,530	1,437
Ferro-tungsten	159	277	960	1,082	911	1,171	394
Other ferro-alloys ..	1,131	981	795	788	1,034	1,546	1,029
Iron and steel ingots ..	—	25	23	95	134	84	130
Blooms, billets and slabs—							
Iron	—	12	285	7	18	29	7
Steel	575	3,059	3,240	3,862	2,602	5,856	4,407
Special steel	7	1,505	144	1,734	210	761	721
Old and scrap (c) ..	207	607	8,072	3,158	1,545	6,310	2,378
Southern Rhodesia—							
Pig-iron	—	—	—	2,792	4,490	6,135	8,162
Union of South Africa—							
Pig-iron, etc.	5,134	3,457	1,705	881	287	17,701	3,219
British West Indies—							
Trinidad and Tobago—							
Old and scrap	4	—	109	2,275	4,373	3,000	600
Canada—							
Pig-iron	19,512	838	1,317	591	11,166	173,686	199,675
Spiegeleisen	3,004	792	747	645	500	316	—
Ferro-chrome	(b)	5,604	24,762	20,103	16,204	29,389	39,046
Ferro-manganese ..	(b)	29,005	65,554	66,517	31,507	23,724	60,275
Ferro-silicon	56,673	42,161	54,949	55,095	59,310	53,271	69,262
Other ferro-alloys ..	62,754	7,529	9,334	7,083	6,146	2,655	1,466
Billets, ingots and blooms	40,074	70,818	75,920	31,940	60,853	152,196	34,855
Old and scrap	25,410	10,852	2,732	4,655	35,692	55,909	35,539
Tinplate scrap	17,318	22,999	24,961	22,359	19,688	21,483	23,266
Hong Kong (including re-							
exports)—							
Pig-iron	(a)	(a)	(a)	25	42	34	34
Special steel	(a)	(a)	(a)	51	347	602	1,624
Old and scrap	(a)	(a)	(a)	27,261	13,647	39,576	57,564
India—							
Pig-iron	67,417	8,367	1,730	39,751	68,142	30,402	51,427
Ferro-manganese ..	—	10,900	—	—	—	—	—
Old and scrap	—	—	—	53	263	—	32,868
Malaya (including re-							
exports)—							
Pig-iron	(a)	2	252	3,160	125	93	332
Scrap	(a)	444	1,461	53,074	50,531	19,556	38,878
Palestine—							
Old and scrap	6	(a)	(a)	(a)	(a)	(a)	(a)
Australia—							
Pig-iron	4,827	54,054	103,602	61,311	17,705	11,054	5,812
Ferro-alloys	—	152	87	113	8	124	82
Ingots, blooms, billets, etc.	52,360	116,663	44,018	10,583	9,382	3,859	1,580
Old and scrap	30	19,698	10,469	14,445	9,569	(a)	(a)
Irish Republic—							
Old and scrap	3,081	20,021	10,001	12,779	10,461	7,569	8,082

(a) Information not available.

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

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

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

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951						
FOREIGN COUNTRIES													
Austria—													
Pig-iron	(a)	(a)	80,277	220,100	331,344	410,546	354,367						
Iron ingots and bars ..	(a)	(a)	(a)	(a)	3,410	3,687	37						
Steel ingots and bars ..	(a)	(a)	(a)	(a)	16,330	20,184	25,593						
Scrap	(a)	(a)	71,922	50,560	19,332	2,667	2,382						
Belgium-Luxemburg E.U.—													
Pig-iron	(a)	(a)	6,848	52,753	21,359	26,357	40,252						
Ferro-alloys	(a)	(a)	(a)	1,112	128	268	73						
Crude iron ingots	(a)	(a)	(a)	} 3,102	12,318	3,051	27,758						
Steel ingots	(a)	(a)	(a)										
Steel blooms and billets	(a)	(a)	72,121	193,327	395,014	280,496	391,171						
Special steel	(a)	(a)	1,629	15,890	507	700	11,216						
Old and scrap	(a)	(o)	(a)	22,036	17,229	32,686	10,315						
Czechoslovakia—													
Ferro-alloys	} (a)	{ 527	344	—	(a)	(a)	(a)						
Billets of cast iron ..								} 468	—	—	(a)	(a)	(a)
Billets, blooms and bars of puddled iron ..													
Old and scrap	} —	{ 2,676	3,991	(b) 2,898	(a)	(a)	(a)						
								(b) 239	(b) 623	(a)	(a)	(a)	
Denmark—													
Old and scrap	15,762	44,436	50,030	61,780	15,375	29,295	9,308						
Finland—													
Pig-iron	3,919	11,202	7,206	11,314	13,200	22,384	13,447						
Ferro-alloys	—	398	12	—	424	150	265						
Old and scrap	20	100	1	8	7	3	552						
France—													
Pig-iron	535	18,754	12,061	87,570	193,061	284,400	323,062						
Spiegeleisen	—	10	—	1,801	5,984	17,642	9,818						
Ferro-manganese	17	334	951	102	172	34,378	28,827						
Ferro-silicon	183	905	2,080	} 1,473	1,107	6,149	16,749						
Ferro-chrome	1	39	37										
Other ferro-alloys	217	219	260	} 2,192	2,177	3,061	13,706						
Ingots	1	218	2,396										
Blooms and billets, forged or rolled	2,660	2,555	3,764	20,496	158,910	454,956	285,788						
Tool steel	152	618	1,705	(a)	(a)	(a)	(a)						
Machine iron or steel ..	6	9,256	13,925	(a)	(a)	(a)	(a)						
Other special steel	108	776	8,522	(a)	(a)	(a)	(a)						
Old, filings and scrap ..	79	6,982	71,386	58,410	177,529	457,603	158,737						
Germany (Federal)—													
Pig-iron	(a)	(a)	(a)	61,888	90,301	466,565	453,823						
Ferro-manganese	} (a)	(a)	(a)	} —	36	510	} 1,536						
Ferro-silicon, etc.								} 18	85	603	2,056		
Other ferro-alloys													
Rough blooms, bars, ingots, etc.	} (a)	} (a)	(a)	} 4,994	15,676	93,797	26,818						
Old and scrap								(a)	(a)	(a)	548,072	2,432,096	2,545,531	721,537
Greece—													
Scrap	—	—	689	4,389	2,373	66	14,038						
Italy—													
Pig-iron	—	(a)	1	11	301	16	1						
Ferro-alloys	—	7	298	2,746	3,496	3,244	16,700						
Steel ingots, blooms and sheet bar	(a)	(a)	135	17	50	395	1						
Scrap	(a)	(a)	—	3,316	169	1,157	55						
Netherlands—													
Pig-iron and ferro-alloys	} (a)	{ 114,182	160,165	274,947	231,006	252,225	239,084						
Ingots, blooms and billets								} 6,668	7,873	2,446	6,871	14,782	8,269
Old and scrap .. .. .														13,113	58,919	40,288	25,964	151,967	30,308

(a) Information not available.

(b) January to October only.

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

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Norway—							
Pig-iron—electric ..	6,372	43,909	47,214	36,135	19,098	26,095	39,665
Ferro-chrome	623	4,492	11,486	15,464	14,559	16,152	21,624
Ferro-manganese .. .	162	13,178	31,761	58,133	52,879	82,178	79,161
Ferro-silicon	12,777	21,109	32,973	34,964	40,329	52,805	49,343
Ferro-silico-manganese	729	2,258	3,817	9,411	8,022	19,183	22,482
Other ferro-alloys ..	—	—	—	20	46	665	(a)
Steel ingots	4	177	106	9	28	3	(a)
Old and scrap	5,011	23,811	5,915	352	129	1,187	238
Poland—							
Pig-iron and ferro-alloys	(a)	(a)	44,662	(a)	(a)	(a)	(a)
Portugal—							
Old and scrap	13,887	18,633	12,301	23,576	14,193	17,311	209
Spain—							
Pig-iron	2,872	2,866	5,569	5,388	20,216	647	39,504
Iron and steel ingots and blooms	28	44	27	1	13	7	9
Old and scrap	5	38	5	1	—	38	—
Sweden—							
Pig-iron	4,256	16,795	16,137	19,544	30,835	68,208	66,657
Sponge iron	203	2,916	2,510	4,670	4,356	8,517	14,073
Ferro-manganese .. .	271	287	1,326	117	725	981	369
Spiegeleisen	—	107	114	—	—	—	—
Ferro-silicon	249	779	468	1,134	1,234	5,653	4,794
Ferro-silico-manganese	380	48	53	20	203	878	220
Ferro-chrome	177	1,952	3,650	271	1,079	4,624	5,150
Ferro-tungsten	5	288	1,024	704	759	758	347
Other ferro-alloys ..	9	234	289	224	290	442	800
Steel ingots	—	—	—	—	—	19	9,196
Steel blooms	—	98	148	98	—	137	—
Tool steel	133	420	426	519	325	436	688
Other special steel ..	442	1,227	1,251	1,670	1,924	2,553	2,607
Old, filings and scrap ..	530	2,279	3,715	3,088	2,975	4,381	4,697
Switzerland—							
Ferro-chrome and ferro-silicon	2	77	540	1,728	1,569	1,289	3,724
Old, filings and scrap ..	—	19,218	10,883	3,602	998	30,781	5,852
Yugoslavia—							
Ferro-chrome	}	(a)	(a)	(a)	(a)	2,216	3,206
Ferro-manganese .. .						1,321	846
Ferro-silico-manganese..						143	1,283
Ferro-silicon						475	845
Other ferro-alloys ..						—	167
Algeria—							
Old, filings and scrap ..	9	114	16,201	19,644	2,413	63,731	78,805
Egypt (including re-exports)							
Scrap	—	1,029	—	20	216	106	(a)
Morocco (French)—							
Old and scrap	19	169	4,445	(a)	(a)	(a)	(a)
Tunis—							
Scrap	(a)	(a)	(a)	(a)	46,773	24,202	(a)
Cuba—							
Old and scrap	4,525	(a)	(a)	34,636	12,344	(a)	(a)
Mexico—							
Ferro-alloys	380	22	—	—	—	1	(a)
Ingots	2,549	15,116	11,315	—	—	3	(a)

(a) Information not available.

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

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
United States—							
Pig-iron	81,221	85,388	35,895	6,279	72,597	6,083	5,853
Ferro-manganese and spiegeleisen	2,883	9,342	18,280	17,630	5,917	841	641
Ferro-chrome	1,313	2,241	2,751	6,030	1,964	309	214
Ferro-molybdenum	789	331	425	531	426	526	662
Ferro-vanadium	76	50	80	107	87	37	55
Ferro-silicon	972	2,824	1,212	2,211	2,281	1,771	2,478
Ferro-tungsten	385	81	37	560	277	149	127
Ferro-titanium	664	491	455	429	160	153	157
Other ferro-alloys	604	1,291	2,079	47,474	4,791	38,283	49,391
Steel ingots, slabs, blooms, billets and sheet bars	181,916	404,048	438,584	195,840	185,147	53,347	119,003
Old and scrap	70,767	121,665	146,675	183,322	262,280	186,406	196,344
Tin plate scrap and waste	12,648	6,831	21,218	29,246	41,865	55,309	56,765
Brazil—							
Pig-iron	16,567	22,650	28,999	64,169	11,456	—	(a)
Ferro-manganese	2,047	2	—	49	177	(a)	(a)
Ferro-nickel	111	—	15	—	—	(a)	(a)
Ferro-silicon	329	6	—	1,019	672	(a)	(a)
Chile—							
Ferro-manganese	5	1,841	3,592	4,885	6,533	4,178	6,445
Ingots	1,385	354	3,440	349	—	(a)	(a)
Colombia—							
Old and scrap	2,363	(a)	(a)	(a)	(a)	(a)	(a)
China—							
Pig-iron	(a)	1,968	—	(a)	(a)	(a)	(a)
Iran (b)—							
Ingots, old and scrap	(a)	54	2	(a)	(a)	(a)	(a)
Japan—							
Ferro-chrome	}	—	—	520	1,252	1,319	251
Ferro-manganese						2,496	3,630
Ferro-silicon						451	(a)
Other ferro-alloys						1,913	1,902
Scrap	(a)	(a)	(a)	93,665	116,924	(a)	9,754
Korea—							
Pig-iron (c)	31,495	(a)	7,449	(a)	(a)	(a)	(a)
Manchuria—							
Pig-iron (c)	17,715	(a)	(a)	(a)	(a)	(a)	(a)
Syria and Lebanon—							
Old and scrap	4	205	(a)	(a)	(a)	(a)	(a)
Turkey—							
Ingots and blocks	621	4,906	27,031	2,710	738	—	23,319
Ferro-Alloys	(a)	(a)	(a)	(a)	(a)	(a)	1,968
Old and scrap	—	—	4,164	2,784	1,130	2,658	20,686

(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	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Pig-iron—							
Charcoal	12	7	—	3,426	40	411	1,143
Forge and foundry	—	492	1,414	1,483	—	6,269	5,481
Hematite	3,646	—	2,465	37,373	110,827	25,300	53,282
Basic	104,213	18,245	5,874	15,574	148,931	159,454	237,785
Other pig-iron	—	950	1,126	1,500	2,021	3,149	3,440
Spiegeleisen and ferro-manganese	(c) 25	150	1,685	—	—	485	1,167
Ferro-silicon	32,213	33,144	46,102	58,832	65,148	65,608	64,136
Ferro-chrome	2,999	3,683	20,815	15,773	10,054	12,117	22,279
Other ferro-alloys	11,168	7,706	9,581	11,794	9,125	11,246	13,074
Iron and steel ingots	36,417	74,809	111,767	19,180	8,188	419	—
Blooms, billets, slabs—							
Iron	—	5	71	37	112	47	2
Steel	79,694	299,569	201,224	162,388	299,200	160,751	102,657
Special steel—							
Ingots, blooms and billets	505	101	2,512	11,816	1,701	152	1,301
Old and scrap (b)	178,287	443,028	378,588	857,621	2,097,162	1,958,310	589,429
Anglo-Egyptian Sudan—							
Pig-iron	31	40	—	100	—	—	(a)
Crude iron and steel	966	1,902	4,120	3,402	5,358	5,022	5,677
Kenya—							
Pig-iron	(a)	(a)	(a)	379	1,000	300	201
Ingots, blooms, etc.	(a)	(a)	(a)	19	—	1	6
Mauritius—							
Pig-iron	43	21	10	17	20	25	20
Northern Rhodesia—							
Pig, ingots, etc.	393	676	199	1,760	4,116	5,484	6,580
Southern Rhodesia—							
Pig, ingots, etc.	3,947	2,859	1,710	2,436	1,070	297	698
Tool and drill steel	431	815	670	651	480	425	269
South West Africa—							
Pig-iron	—	1	18	46	1	107	(a)
Tanganyika—							
Pig-iron	(a)	(a)	(a)	105	330	189	356
Ferro-alloys	(a)	(a)	(a)	(a)	(a)	20	76
Ingots, blooms, etc.	(a)	(a)	(a)	12	21	2	1
Union of South Africa—							
Pig-iron and steel ingots	25,320	1,644	571	630	610	656	(a)
Ferro-silicon	1	234	92	9	171	11	(a)
Ferro-manganese	126	5	1	29	83	18	(a)
Other ferro-alloys	221	298	300	452	203	78	(a)
Tool and drill steel	1,384	1,422	1,538	1,326	1,146	2,487	1,916
British West Indies—							
Jamaica—							
Pig-iron	—	—	—	—	120	—	—
Trinidad and Tobago—							
Pig-iron	1	1	—	10	22	6	(a)
Ingots, etc.	—	—	—	—	1	3	(a)

(a) Information not available.

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

Year	Long tons
1945	2,000
1946	Nil
1947	41,505
1948	75,640
1949	43,886
1950	124,890
1951	52,511

(c) Excess of re-exports.

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

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES (Cont.)							
Canada (b)—							
Pig-iron	6,776	10,826	7,940	6,587	18,331	26,454	19,299
Sponge iron	4	50	—	—	—	9	39
Ferro-alloys	1,998	2,571	2,611	2,386	2,605	4,228	5,789
Ingots, blooms and billets	36,256	4,645	7,889	46,911	53,633	22,918	106,157
Scrap	52,496	175,137	167,439	281,944	254,353	163,525	95,953
Newfoundland (c)—							
Pig-iron and ferro-alloys	244	359	70	186	(c)	(c)	(c)
Ceylon—							
Pig-iron	10	549	1,210	124	1,107	707	1,482
Cyprus—							
Pig-iron	40	13	52	421	655	1,788	132
Old and scrap	(d) 114	445	300	123	305	(d) 1,075	(d) 2,076
Hong Kong (total imports)—							
Pig-iron	(a)	(a)	(a)	419	1,618	1,493	241
Special steel	(a)	(a)	(a)	72	124	522	673
Old and scrap	(a)	(a)	(a)	9,998	6,474	3,194	9,440
India—							
Pig-iron	—	—	100	294	23	322	14
Ingots, blooms and billets	79,466	10,638	411	321	11,912	70,857	33,322
Tool steel	22	80	186	51	344	155	227
Ferro-alloys	4,955	1,893	918	854	2,100	1,111	3,718
Old and scrap	(e) 3,096	(e) 8,449	(e) 18,542	(e) 7,241	7,029	11,664	3,861
Malaya (total imports)—							
Pig-iron	(a)	60	1,565	632	726	3,565	13,668
Scrap	(a)	12	52	718	2,466	6,032	2,209
Palestine—							
Pig-iron	929	1,521	(a)	(a)	(f)	(f)	(f)
Old and scrap	143	(a)	(a)	(a)	(f)	(f)	(f)
Australia—							
Pig-iron	—	—	10	400	1,020	12,119	11,438
Ferro-manganese	} 786	{ 739	144	59	709	339	80
Other ferro-alloys			1,225	896	3,490	486	1,345
Ingots and billets of high grade carbon alloy steels			—	6	8	6	585	754	220
Ingots, blooms, billets, etc.	20	73	27	79	187	1,172	1,163
Scrap	94	15	1,216	(d) 228	(d) 1,156	(e) 1,665	470
New Zealand—							
Pig-iron	5,853	7,510	7,974	16,237	8,117	14,298	6,709
Billets and blooms	139	774	2,908	7,326	2,394	4,736	4,249
Special steel	206	270	555	331	1,224	1,565	644
Irish Republic—							
Pig-iron	1,597	3,264	2,345	3,586	3,989	8,687	3,788
Crude forgings and castings	143	365	216	220	303	125	103
Old and scrap	89	949	1,635	185	1,747	1,832	—

(a) Information not available.

(b) Including Newfoundland from April 1, 1949.

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

(d) Excess of re-exports.

(e) Total imports.

(f) See "Israel" under Foreign Countries.

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

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951		
FOREIGN COUNTRIES									
Austria—									
Pig-iron	(a)	(a)	982	836	2,071	2,411	2,041		
Ferro-manganese	(a)	(a)	1,119	1,913	3,379	5,413	4,444		
Ferro-silicon	(a)	(a)	496	1,107	2,001	2,717	3,289		
Other ferro-alloys	(a)	(a)	1,034	2,640	4,494	6,399	4,713		
Scrap	(a)	(a)	129	19,178	42,826	70,438	58,968		
Belgium-Luxemburg E.U.—									
Pig-iron	5,303	(a)	69,721	69,293	91,000	82,295	117,217		
Ferro-alloys	(a)	(a)	(a)	84,982	67,876	58,745	99,426		
Crude iron ingots	(a)	(a)	(a)	98	118	90	} 95		
Steel ingots	(a)	(a)	(a)	99	110	1,336			
Blooms and billets	(a)	(a)	(a)	2,759	3,075	1,908	4,221		
Special steel	(a)	(a)	3,270	5,450	5,398	8,845	8,204		
Old and scrap	(a)	(a)	(a)	352,515	325,061	388,790	259,073		
Bulgaria—									
Pig-iron	4,949	10,286	(a)	(a)	(a)	(a)	(a)		
Old and scrap	2	149	(a)	(a)	(a)	(a)	(a)		
Czechoslovakia—									
Pig-iron—									
Foundry	} (a)	3,334	5,136	(b) 49,682	(a)	(a)	(a)		
For refining or puddling		821	1,615	(b) 266	(a)	(a)	(a)		
Other ferro-alloys		3,061	12,135	(b) 9,907	(a)	(a)	(a)		
Ingots		8	—	(b) —	(a)	(a)	(a)		
Billets, blooms, bars of puddled iron		10	62	(b) 72	(a)	(a)	(a)		
Old and scrap	298	85,057	(b) 135,968	(a)	(a)	(a)			
Denmark—									
Pig-iron	10,349	40,720	34,404	22,217	36,173	52,821	54,937		
Ferro-alloys	247	5,029	9,477	6,988	11,745	5,324	6,666		
Old and scrap	573	417	2,750	2,769	3,050	3,214	1,658		
Finland (total imports)—									
Pig-iron	689	2,193	15,366	18,667	23,128	7,788	7,399		
Billets	1,486	1,778	10,712	18,619	19,463	13,929	33,272		
Ferro-manganese and spiegeleisen	471	904	1,197	1,618	1,030	696	1,637		
Other ferro-alloys	453	159	920	1,493	1,787	950	1,230		
Old and scrap	10,324	11,085	63,331	62,631	33,301	13,385	4,118		
France—									
Pig-iron—hematite	177	16,236	7,416	16,766	10,328	7,860	10,860		
do. other	2	13,377	2,671	671	13	2,116	3,682		
Spiegeleisen	1,928	17,698	67	12,048	2,568	2,406	1,890		
Ferro-manganese	1,987	11,930	11,905	244	148	102	153		
Ferro-silicon	96	1,898	1,500	} 960	} 552	} 1,681	} 31		
Ferro-chrome	507	134	832						
Other ferro-alloys	4	3	515	} 1,675	} 10,339	} 1,993	} 5,039		
Ingots	12	1,783	702						
Blooms and billets, rolled or forged	78,114	16,622	45,218	33,172	2,412	23,423	67,168		
Tool steel	37	531	1,172	(a)	(a)	(a)	(a)		
Machine iron or steel	4,500	18,942	5,000	(a)	(a)	(a)	(a)		
Other special steel	827	7,272	9,108	(a)	(a)	(a)	(a)		
Old, filings and scrap	2,085	21,612	38,320	42,001	14,264	3,501	5,999		
Germany (Federal)—									
Pig-iron	} (a)	} (a)	} (a)	—	—	11,200	30,557		
Ferro-manganese				2,365	3,427	} 13,849	} 7,341	} 8,225	} 24,833
Ferro-silicon, etc.				5,426	2,004				
Other ferro-alloys				69	121	} 916	} 4,664	} 8,496	} 6,588
Rough blooms, ingots, bars, etc.				—	—				
Old and scrap	—	—	—	—	43,524	10,314			
Greece—									
Pig-iron	63	1,779	3,439	6,452	10,307	15,441	11,125		

(a) Information not available.

(b) January to October only.

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

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Italy—							
Pig-iron	(a)	(a)	150,742	130,238	206,811	206,010	140,547
Spiegeleisen	—	—	197	58	—	1,537	3,329
Ferro-chrome	—	116	81	524	1,534	1,924	907
Ferro-manganese ..	—	1,066	199	4,719	2,939	1,696	219
Ferro-molybdenum ..	—	75	27	61	26	85	78
Other ferro-alloys ..	—	—	367	705	369	299	192
Steel ingots	(a)	(a)	743	32,000	24,784	61,884	28,563
Steel blooms and sheet bar	(a)	(a)	1,763	2,060	2,514	47,312	98,871
Old and scrap	(a)	(a)	73,460	128,034	383,802	495,083	673,368
Netherlands—							
Pig-iron	(a)	2,376	1,649	996	2,696	8,302	6,688
Ferro-alloys							
Ingots, blooms, billets, etc.							
Old and scrap							
Norway—							
Pig-iron	2,129	1,520	1,337	1,533	1,770	3,796	(a)
Ferro-tungsten and ferro-vanadium	5	10	35	56	2	19	(a)
Other ferro-alloys ..	355	57	34	87	6	20	(a)
Ingots	—	180	66	102	314	29	(a)
Alloyed steel	381	707	931	1,355	1,455	(a)	(a)
Old and scrap	614	2,568	2,881	4,097	31,918	6,735	4,817
Poland—							
Pig-iron	—	822	52,485	(a)	(a)	(a)	(a)
Old and scrap	—	10,135					
Portugal—							
Iron and steel ingots ..	4,185	9,408	16,389	15,247	13,248	11,797	14,007
Old and scrap	342	9,656	1,812	1,162	1,909	837	1,414
Spain—							
Pig-iron	288	127	1	—	228	25	2,738
Ferro-manganese	5	1	11	36	2	3,476	866
Other ferro-alloys ..	82	403	264	143	697	1,147	280
Special steel	473	839	802	2,108	1,549	1,906	1,208
Old and scrap	22,469	28,664	13,787	33,325	47,105	80,270	47,726
Sweden—							
Pig-iron	17,155	89,625	138,607	98,644	93,597	100,368	72,934
Spiegeleisen	1,000	6,257	607	—	20	128	2,325
Ferro-manganese	1,952	5,362	583	2,073	1,866	2,258	
Ferro-chrome	16	725	1,116	2,140	2,255	2,035	(a)
Ferro-silicon and ferro-silico-manganese ..	380	1,591	737	968	690	401	218
Ferro-tungsten	—	20	—	5	24	72	(a)
Other ferro-alloys ..	67	375	559	273	495	411	(a)
Tool steel	—	19	17	16	8	1	(a)
Old, filings and scrap ..	19,130	69,797	64,881	93,357	147,463	172,830	77,391
Switzerland—							
Pig-iron, steel billets, blooms, etc.	41,828	111,037	109,365	143,043	55,396	85,745	91,158
Ferro-chrome and ferro-silicon	127	2,260	2,769	4,434	1,321	1,280	8,037
Old, filings and scrap ..	341	8,533	60,916	60,792	53,013	4,950	1,890
Yugoslavia—							
Pig-iron	(a)	(a)	(a)	(a)	(a)	23,712	20,374
Ferro-alloys							
Scrap							
Algeria—							
Pig-iron	417	475	1,586	2,531	1,748	1,555	1,282
Spiegeleisen and ferro-alloys	304	99	98	221	291	171	456
Ingots, blooms and billets	4	170	224	112	3,310	13,777	18,540
Tool and special steel ..	54	31	225	(a)	(a)	(a)	(a)
Machine iron and steel ..	(a)	(a)	2,888	(a)	(a)	(a)	(a)
Old, filings and scrap ..	767	1,214	840	1,173	3,507	281	523

(a) Information not available.

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

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Egypt—							
Pig-iron and spiegeleisen	2,041	377	2,755	1,636	4,543	12,911	(a)
Ferro-alloys	4	9	11	268	545	244	(a)
Ingots, billets, etc. ..	25	20	12	514	1,190	5,588	(a)
Special steel	635	1,534	586	1,739	1,228	1,906	(a)
Scrap (total imports) ..	423	903	3,755	3,700	3,875	2,203	(a)
Madagascar—							
Blooms, billets, etc. ..	2,309	1,922	3,202	7,213	(a)	(a)	(a)
Morocco (French)—							
Pig-iron	672	539	1,052	(a)	(a)	(a)	(a)
Ferro-alloys	41	42	46	(a)	(a)	(a)	(a)
Scrap, etc.	1,518	5,086	6,218	(a)	(a)	(a)	(a)
Morocco (Spanish)—							
Ingots	21	38	11	(a)	(a)	(a)	(a)
Tunis—							
Pig-iron	10	51	314	96	127	(a)	(a)
Steel ingots and billets ..	6,401	5,617	7,127	9,116	(a)	(a)	(a)
Tool steel	(a)	(a)	(a)	—	(a)	(a)	(a)
Old and scrap	1	2	2	(a)	(a)	(a)	(a)
Cuba (total imports)—							
Iron ingots	1,170	(a)	(a)	106	271	(a)	(a)
Mexico—							
Pig-iron	298	2	(a)	(a)	(a)	(a)	(a)
Ferro-manganese	790	474	1,307	1,337	(a)	(a)	(a)
Other ferro-alloys	1,059	732	915	845	(a)	(a)	(a)
Steel ingots, blooms and billets	1,821	385	(a)	(a)	(a)	(a)	(a)
Scrap	20,771	44,317	(a)	(a)	(a)	(a)	(a)
United States—							
Pig-iron	19,137	12,581	29,129	195,269	89,110	710,683	952,244
Spiegeleisen	2,809	321	—	—	1,553	7,737	—
Ferro-chrome	5,742	1,303	9,535	8,052	6,577	19,315	24,368
Ferro-manganese	31,715	28,687	72,596	87,697	58,048	96,691	106,932
Ferro-silicon	20,595	11,248	12,374	6,557	6,641	13,162	26,323
Ferro-titanium	—	3	40	25	34	116	222
Ferro-tungsten	—	—	—	—	28	785	901
Sponge iron	79	1,194	1,040	2,838	3,099	6,733	11,445
Bar-iron, slabs, blooms, etc.	5,719	361	223	170	316	345	625
Steel ingots, blooms, etc. ..	1,477	758	1,352	20,790	46,706	161,178	124,665
Scrap	41,313	26,989	32,314	370,600	977,154	621,589	320,624
Tin plate scrap	18,072	24,530	30,797	41,084	41,028	42,394	51,571
Argentina—							
Pig-iron	21,310	33,816	64,087	111,856	80,961	91,824	69,646
Ferro-manganese	2,405	1,677	1,679	2,222	1,722	2,217	2,394
Ferro-silicon	1,077	1,955	2,007	2,084	1,155	1,140	2,348
Ingots	21,999	50,969	54,572	45,664	62,574	160,984	177,680
Old and scrap	702	1,468	26,185	43,365	88,150	61,756	17,790
Brazil (total imports)—							
Pig-iron, etc.	4,792	7,120	7,855	993	1,694	(a)	(a)
Ferro-manganese	52	16	2	49	55	(a)	(a)
Ferro-silicon	614	982	712	93	565	(a)	(a)
Special steel	222	674	270	221	882	(a)	(a)
Filings	61	44	52	45	28	(a)	(a)
Chile—							
Ingots	3,251	970	693	1,116	1,076	305	(a)
Ferro-chrome	11	22	22	—	(a)	(a)	(a)
Ferro-manganese	496	201	257	132	(a)	(a)	(a)
Ferro-silicon	194	47	342	387	156	853	1,331
Old and scrap	5,207	1,391	(a)	(a)	(a)	(a)	(a)
Colombia—							
Pig-iron	3,600	795	(a)	(a)	1,261	1,793	(a)
Scrap	90	691	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

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

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Peru—							
Pig-iron	1,724	1,305	(a)	(a)	(a)	(a)	(a)
Ferro-alloys	36	42	(a)	(a)	(a)	(a)	(a)
Uruguay—							
Ingots	(a)	10,781	12,282	7,741	6,332	11,222	(a)
Ferro-manganese ..	(a)	(a)	(a)	172	133	66	(a)
Ferro-silicon	(a)	(a)	(a)	37	231	116	(a)
Other ferro-alloys ..	(a)	(a)	(a)	15	(a)	14	(a)
Iran (b)—							
Ingots, etc., old and scrap	(a)	3,638	6,278	(a)	(a)	(a)	(a)
Israel—							
Pig-iron	(c)	(c)	(c)	(c)	2,561	2,450	(a)
Ferro-alloys	(c)	(c)	(c)	(c)	9	3	(a)
Japan—							
Pig-iron	54,131	1,968	8,276	10,802	135,844	(a)	42,396
Ferro-manganese ..	—	—	—	—	—	(a)	} 1,272
Ferro-silicon	—	—	—	—	—	(a)	
Steel ingots	1,972	—	—	—	—	(a)	211
Old and scrap	984	—	124	—	—	(a)	(a)
Syria and Lebanon—							
Old and scrap	2,171	651	(a)	(a)	(a)	(a)	(a)
Turkey—							
Iron ingots and blocks ..	—	—	210	—	—	—	9
Ferro-alloys	783	405	79	661	659	413	103
Steel ingots and blocks ..	1	2	41	1	—	—	—
Special steel	25	310	172	400	600	951	2,878
Old and scrap	131	8	42	55	16	5	13

(a) Information not available.

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

(c) See "Palestine" under British Countries.

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

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Great Britain	2,866	2,763	3,177	2,394	2,465	3,288	4,847
Nigeria	—	—	71	269	28	12	4
Northern Rhodesia (b) .. .	1,720	8,239	15,640	13,020	13,945	13,685	13,970
Southern Rhodesia .. .	—	—	—	—	81	—	—
South West Africa .. .	—	—	(c) 12,400	33,068	37,785	33,151	38,611
Tanganyika .. .	—	5	—	—	—	(f) 676	(f) 1,621
Uganda .. .	—	1	5	10	54	30	4
Union of South Africa .. .	183	150	131	160	165	593	882
Canada (d) .. .	154,908	158,024	144,346	149,331	} 142,656	147,944	136,161
Newfoundland .. .	24,920	24,816	20,788	19,745			
Burma .. .	(a)	—	22	(e)	(e)	(e)	(e)
India (g) .. .	20	200	400	430	650	1,040	1,300
Australia .. .	164,741	183,835	196,623	216,955	213,491	219,176	224,799
TOTAL .. .	349,400	378,000	393,000	435,000	411,000	419,600	422,200
FOREIGN COUNTRIES							
Austria .. .	(a)	1,100	1,619	3,427	4,606	4,530	4,861
Finland .. .	87	153	185	71	128	140	213
France .. .	4,775	8,165	7,377	7,524	9,846	12,234	(a)
Germany (Federal) .. .	(g) 15,000	15,275	15,693	24,087	40,298	44,230	49,581
Greece .. .	540	433	921	1,284	1,154	(a)	2,722
Italy .. .	2,300	13,700	23,600	30,000	34,418	37,841	38,126
Norway .. .	10	26	139	261	296	224	407
Poland .. .	(a)	(b) 10,743	(b) 12,559	(g) 17,000	(g) 17,000	(g) 20,000	(g) 20,000
Portugal .. .	260	369	371	625	734	1,290	1,595
Roumania .. .	3,310	3,173	3,440	(a)	(a)	(a)	(a)
Spain .. .	(g) 27,900	(g) 37,200	29,963	26,860	30,597	38,833	40,167
Sweden .. .	19,780	20,844	20,529	23,207	23,523	22,315	14,800
U.S.S.R. (smelter) (h) .. .	70,000	83,000	105,000	107,000	135,000	170,000	210,000
Yugoslavia .. .	(g) 20,000	43,000	51,000	55,000	71,000	84,676	77,506
Algeria .. .	560	860	1,120	1,030	1,118	1,379	2,785
Belgian Congo .. .	—	—	659	394	177	—	—
French Equatorial Africa .. .	3,027	2,800	2,600	2,560	719	1,785	2,466
Morocco (French) .. .	10,934	10,862	21,060	27,790	36,483	47,452	67,107
Morocco (Spanish) (f) .. .	160	200	55	110	95	220	420
Tunis .. .	6,301	8,518	12,224	13,011	14,700	18,961	20,910
Guatemala (b) .. .	113	129	108	(a)	67	267	(a)
Honduras .. .	(a)	(a)	(a)	125	391	275	446

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

PRODUCTION OF LEAD ORE (Cont.)

Producing Country	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Mexico (b)	202,072	137,930	219,611	190,264	217,277	234,318	221,907
United States (b)	348,956	299,531	343,054	348,639	365,989	384,667	346,575
Argentina (estimated) (c)	18,000	18,000	20,000	21,000	18,000	23,000	23,600
Bolivia (exports)	9,358	8,301	11,131	25,205	25,895	30,684	30,076
Chile	53	(a)	3,311	6,125	2,814	669	(a)
Ecuador	(a)	366	170	265	372	221	(a)
Peru.. .. .	52,816	43,815	53,948	47,771	64,325	61,137	81,048
Burma	(d)	(d)	(d)	35	(a)	1,098	5,815
French Indo-China	3	—	—	—	—	—	—
Iron (estimated)	(a)	(a)	(a)	(a)	(a)	2,000	(a)
Japan	4,586	4,182	5,738	6,578	8,964	10,724	12,472
Korea (Southern)	2,063	—	886	256	141	130	130
Philippine Republic	(a)	4	7	71	541	865	479
Siam	(a)	(a)	(a)	(a)	180	680	1,300
Turkey	(a)	(a)	(a)	(a)	570	190	740
TOTAL	825,000	778,000	985,000	991,000	1,131,000	1,259,000	1,293,000
WORLD'S TOTAL	1,182,000	1,156,000	1,378,000	1,426,000	1,541,000	1,679,000	1,715,000

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

METAL PRODUCTION OF LEAD

(Long tons)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom (b) ..	2,700	2,500	2,800	2,200	2,100	3,000	4,100
Northern Rhodesia ..	1,720	8,239	15,640	13,020	13,945	13,685	13,970
South West Africa ..	—	—	63	80	—	—	—
Canada	145,628	147,986	144,643	142,879	130,490	151,806	145,279
India	106	—	190	625	593	626	859
Australia (d) ..	155,852	149,747	187,985	189,662	184,374	198,593	198,774
TOTAL	305,900	307,800	351,400	348,500	331,500	367,700	363,000
FOREIGN COUNTRIES							
Austria (c)	1,252	4,405	3,511	9,201	9,426	10,738	10,971
Belgium (c)	6,240	21,239	39,526	62,507	77,580	61,113	69,530
Czechoslovakia ..	(a)	2,989	4,390	5,680	(a)	(a)	(a)
France	2,721	31,494	28,757	34,154	56,632	60,269	47,218
Germany (Federal) ..	(a)	(c) 17,916	(c) 23,971	(c) 48,602	(e) 53,689	(e) 65,567	74,862
Greece	700	1,109	1,569	3,419	4,019	3,324	5,261
Italy	2,785	13,789	17,266	25,327	28,011	36,877	35,431
Poland	(a)	10,743	12,559	16,607	(b) 17,100	(b) 20,000	(b) 20,000
Portugal	(a)	256	316	229	299	582	713
Roumania	3,310	3,173	3,440	(a)	(a)	(a)	(a)
Spain	27,507	29,195	31,617	21,708	32,499	34,321	41,183
Sweden	12,303	11,046	9,083	6,129	10,587	16,417	9,335
U.S.S.R. (g)	70,000	83,000	105,000	107,000	135,000	170,000	210,000
Yugoslavia	(a)	33,000	39,000	48,000	56,000	56,301	59,119
Morocco (French) ..	—	—	—	—	—	—	18,100
Tunis	6,912	7,370	12,391	17,675	19,190	23,164	22,544
Guatemala	113	129	108	(a)	67	267	(a)
Mexico	197,902	165,889	190,489	191,456	225,660	217,362	185,535
United States (f) ..	395,953	301,874	393,703	357,359	424,877	450,937	370,204
Argentina	20,843	20,682	21,071	21,139	17,752	18,700	23,700
Peru	40,930	37,484	32,961	34,187	36,650	31,451	43,593
Burma	—	—	—	7,400	846	—	148
China	558	(a)	(a)	(a)	(a)	(a)	(a)
Japan	14,310	3,968	6,071	6,862	7,476	9,826	10,570
Korea (Southern) ..	2,063	—	196	295	98	(a)	(a)
TOTAL (g)	820,000	800,000	977,000	1,030,000	1,223,000	1,295,000	1,268,000
WORLD'S TOTAL (g)	1,136,000	1,108,000	1,328,000	1,378,000	1,555,000	1,663,000	1,631,000

(a) Information not available.

(b) Estimated.

(c) Including secondary metal.

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

Year	Long tons
1945	—
1946	12,288
1947	29,437
1948	30,165

Year	Long tons
1949	32,621
1950	37,021
1951	31,872

(e) Revised. Figures now refer to primary production only.

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

Year	Long tons
1945	324,142
1946	350,703
1947	457,116
1948	446,492

Year	Long tons
1949	368,021
1950	430,603
1951	462,598

(g) Revised estimates.

EXPORTS OF LEAD, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Ore	14	77	—	2	—	(a)	(a)
Pig-lead	6,217	814	438	714	770	448	1,126
Sheets and pipes	3,956	1,635	1,240	2,093	1,604	2,428	2,399
White lead	3,314	2,806	1,076	2,921	2,483	4,846	4,133
Litharge, red lead, etc. ..	6,436	5,239	2,675	5,684	3,276	6,067	4,802
Northern Rhodesia—							
Pig, bar and ingot	1,965	6,095	13,662	13,189	12,347	12,379	11,568
South West Africa—							
Copper-lead-vanadate ores and concentrates (f)	—	—	—	67,671	79,440	72,761	82,564
Pig-lead	—	—	—	80	—	—	(a)
Tanganyika—							
Ore	—	5	7	—	—	1,093	2,965
Union of South Africa—							
Pig, ingot and sheets	18	14	139	461	151	144	(a)
Canada (b)—							
Ore (Pb content)	6,995	5,363	6,005	5,006	17,760	17,210	17,543
Pig-lead, etc.	95,796	92,955	111,576	92,645	101,369	102,828	94,407
Scrap	(a)	(a)	(a)	(a)	1,702	1,602	1,269
Pipes and tubes	(a)	(a)	(a)	(a)	242	85	62
White lead	351	366	309	1,586	524	926	2,576
Newfoundland (c)—							
Concentrates	39,151	36,518	35,525	37,137	(e)	(c)	(c)
Burma—							
Pig-lead and refined lead	(a)	(d) 1,893	(a)	(a)	(a)	(a)	(a)
Hong Kong (including re-exports)—							
Bars, sheets, pipes etc. ..	(a)	63	61	782	692	294	1,030
India—							
Pig-lead	—	—	—	—	—	—	—
Malaya (including re-exports)—							
Pig-lead	(a)	67	2,435	1,844	732	1,602	1,111
Sheets and pipes	(a)	—	1	3	3	8	9
Australia—							
Ores and concentrates (Pb content)	(e) 33,544	(e) 8,965	(e) 18,554	(e) 16,416	5,615	7,926	14,490
Matte (Pb content)	—	150	2,001	49	2	1	—
Pig-lead	87,590	93,136	141,372	116,744	104,719	125,630	106,180
Base bullion	—	9,095	30,399	27,843	37,734	34,074	31,780
Scrap	(a)	(a)	286	4,646	2,536	39	2
Sheets and pipes	216	264	1,248	457	331	434	845
White lead	191	166	229	348	442	623	781
Irish Republic—							
Ore	263	155	100	207	371	502	1,573
FOREIGN COUNTRIES							
Austria—							
Pig-lead, alloys etc.	(a)	(a)	(a)	(a)	2,913	2,291	1,614
Scrap							
Red and white lead etc. ..							
Belgium-Luxemburg E.U.—							
Pig-lead	(a)	(a)	(a)	43,703	47,427	44,887	46,756
Scrap	(a)	(a)	(a)	62	105	70	148
Sheets, bars, pipes and wire	(a)	(a)	(a)	4,230	3,453	6,796	7,913
Red and white lead, etc. ..	(a)	(a)	(a)	3,540	3,273	5,029	2,860

(a) Information not available.

(b) Including Newfoundland from April 1, 1949.

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

(d) February to September only.

(e) Years ended June 30 of year stated.

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

EXPORTS OF LEAD, ETC. (Cont.)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951	
FOREIGN COUNTRIES (Cont.)								
Bulgaria—								
Ore and concentrates ..	11,183	9,599	11,135	(a)	(a)	(a)	(a)	
Czechoslovakia—								
Ore	(a)	{	617	(b) —	(a)	(a)	(a)	
Pig-lead, ashes, scrap and alloys			69	(b) 303	(a)	(a)	(a)	
Red and white lead, etc.			10	(b) —	(a)	(a)	(a)	
Denmark—								
Pig-lead	17	518	1,026	2,604	2,978	5,205	5,640	
Scrap	—	107	64	459	372	698	338	
Sheets and pipes ..	—	—	26	8	9	13	59	
France—								
Ore, matte and slag ..	—	1,047	1,615	114	1,338	2,211	753	
Pig-lead, including argen- tiferous and antimonial	51	38	896	1,433	17,085	20,927	2,846	
Scrap	—	429	—	40	158	40	22	
Bars, sheets, alloys ..	164	289	383	657	1,374	887	1,378	
Red and white lead, etc.	73	152	322	332	1,018	1,309	1,710	
Germany (Federal)—								
Ore	(a)	(a)	(a)	1,639	886	10	—	
Pig-lead, alloys and scrap				7	55,995	57,827	18,426	
Sheets, pipes, wire, etc.				5	110	1,500	4,099	
Red and white lead ..				5	2,072	6,944	10,436	
Greece—								
Pig-lead	(a)	(a)	149	323	71	—	363	
Italy—								
Ore	—	1,378	3,012	6,289	4,362	3,081	5,433	
Pig-lead, scrap and alloys	—	994	217	24,551	3,002	692	1,041	
Red and white lead ..	(a)	(a)	(a)	(a)	(a)	242	443	
Netherlands—								
Pig-lead	(a)	{	545	1,421	1,816	1,512	1,907	
Scrap			491	1,589	3,768	2,261	2,239	4,299
Sheets and wire			103	168	529	436	560	287
Red and white lead ..			27	166	105	380	742	698
Norway—								
Ore	187	—	196	420	544	395	(a)	
Pig-lead	—	201	119	15	105	29	(a)	
Scrap	20	608	930	1,598	549	755	(a)	
Portugal—								
Ore	—	—	6	217	49	—	(a)	
Pig-lead, etc.	3	4	60	15	—	28	23	
Red and white lead ..	16	11	656	10	(a)	11	21	
Spain—								
Ore	6	31	—	1	—	—	—	
Pig-lead and scrap ..	1,446	1,374	5,247	8,601	2,815	12,631	15,913	
Sheets, wire, etc. ..	336	192	352	424	403	582	1,115	
Sweden—								
Ore	14,216	17,444	18,071	23,237	10,536	14,725	10,987	
Pig-lead and scrap ..	1,331	1,674	1,713	546	1,696	3,757	662	
Sheets and pipes	74	131	1	15	30	31	39	
Red and white lead, etc.	105	115	40	133	207	111	99	
Switzerland—								
Ores, etc.	—	14	17	162	176	648	839	
Pig-lead, scrap, etc. ..	—	—	11	23	143	259	349	
Sheets and pipes	—	—	154	13	25	2	16	
Yugoslavia—								
Concentrates	(a)	(a)	(a)	(a)	(a)	5,869	—	
Pig-lead	(a)	(a)	(a)	(a)	(a)	52,571	50,899	
Algeria—								
Ore	695	185	2,731	2,542	1,343	2,893	3,081	
Pig lead	}	536	165	95	232	72	65	
Scrap			1,147	1,324	1,194	1,442	2,670	
Red and white lead ..			2	—	130	195	—	9	3
Belgian Congo—								
Ore	13	10	104	—	(a)	—	—	

(a) Information not available.

(b) January to October only.

EXPORTS OF LEAD, ETC. (Cont.)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
French Equatorial Africa—							
Ore	6,909	1,292	13,726	10,012	5,285	3,740	984
Morocco (French)—							
Ore, matte and slag ..	11,810	22,243	18,897	8,563	55,900	55,035	52,653
Scrap, etc.	—	292	929	(a)	(a)	12,213	14,357
Morocco (Spanish)—							
Ore	243	295	80	(a)	(a)	(a)	(a)
Tunis (including re-exports)							
Ore	—	27	28	6	296	(a)	(a)
Pig-lead and bars ..	5,669	6,337	9,793	13,705	18,600	21,000	(a)
Mexico—							
Ores and concentrates ..	1,454	377	8,352	14,402	20,988	6,322	8,666
Pig-lead, refined ..	164,472	125,585	170,771	211,982	185,831	257,153	175,584
Base bullion	6,523	37	185	8,770			
Pig-lead, antimonial ..	15,951	1,919	5,689	11,009			
Pb content (b)	179,658	165,207	184,411	176,499			
Total					175,712	241,178	(a)
United States—							
Ore, mattes and base bullion (Pb content) ..	—	89	—	8	1,443	119	498
Pig-lead, bars, etc. ..	1,256	533	1,351	356	866	2,442	1,144
Scrap	—	—	—	—	667	1,407	530
Sheets and pipes	1,064	867	1,680	849	690	316	972
Red and white lead, etc.	7,600	3,969	2,555	2,018	2,766	2,657	2,134
Argentina—							
Ore	8,366	—	(a)	(a)	(a)	(a)	(a)
Ingots, bars and sheets	36	1	(a)	(a)	(a)	(a)	(a)
Bolivia—							
Ore, etc. (Pb content) ..	9,358	8,301	11,131	25,205	25,895	30,684	30,076
Chile—							
Ores and concentrates ..	—	—	10	—	(a)	(a)	(a)
Ecuador—							
Concentrates	159	367	394	501	287	(a)	(a)
Peru—							
Ore and concentrates (Pb content)	13,334	6,743	12,365	7,857	16,771	28,248	(a)
Pig-lead (Pb content) ..	37,098	34,925	25,581	37,396	35,393	30,795	(a)
Scrap (Pb content)	1,345	1,655	416	370	309	271	(a)
Iran—							
Ore	(a)	(a)	(a)	837	504	(c) 3,500	(a)
Japan—							
Refined lead	(a)	14,763	—	—	24	(a)	233
Sheets and plates	(a)	10,826	4,922	(a)	(a)	6,811	(a)
Tubes	(a)						
Turkey—							
Ore	—	—	—	—	492	—	953
Ingots	(a)	(a)	(a)	(a)	(a)	(a)	224
Old and scrap	(a)	(a)	(a)	(a)	(a)	(a)	148

(a) Information not available.

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

(c) Estimated.

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

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Ore and concentrates ..	—	56	107	219	64	(a)	(a)
Pig-lead	165,360	153,952	197,149	160,865	186,395	171,686	175,196
Scrap, incl. alloys ..	(a)	2,675	1,729	1,053	1,910	2,559	1,294
Sheets and pipes ..	—	—	1,270	373	—	—	3
White lead	—	—	—	2	—	—	—
Litharge, red lead, etc. ..	—	—	—	—	50	—	164
Anglo-Egyptian Sudan—							
Unwrought incl. scrap ..	11	13	8	7	16	(d) 1	(a)
White lead	1	55	145	—	1	(a)	(a)
Gold Coast—							
Bars, sheets, etc. ..	140	231	380	184	350	514	162
Kenya (e)—							
Bars, sheets, pipes, etc.	120	31	53	64	17	25	36
Mauritius—							
Pig-lead, sheets, pipes, etc.	44	(a)	3	(a)	23	28	13
Nigeria—							
Bars and sheets	70	27	156	84	169	135	153
Northern Rhodesia—							
Sheets and foil, etc. ..	1	1	1	5	31	59	30
White lead	2	1	—	—	—	5	11
Sierra Leone—							
Bars and sheets	9	3	6	7	5	16	8
Southern Rhodesia—							
Pig-lead, bars, sheets and foil	79	135	159	139	142	242	397
Red and white lead, etc.	(a)	38	90	204	71	28	52
South West Africa—							
Bars, sheets and pipes ..	4	4	17	16	28	17	(a)
Red and white lead, etc.	1	8	10	10	8	1	(a)
Tanganyika—							
Bars, sheets and pipes, etc.	2	4	3	7	8	8	3
Uganda—							
Bars, sheets, pipes, etc. . .	(f)	(f)	(f)	(f)	3	5	30
Union of South Africa—							
Pig-lead and bars	7,763	6,270	7,297	8,355	7,120	11,620	14,196
Sheets and pipes	—	54	26	21	104	40	(a)
Foil	6	(d) 10	3	1	2	1	(a)
Litharge, red and white lead	1,968	1,378	1,072	1,432	1,022	834	(a)
British West Indies—							
Jamaica—							
Pig-lead, etc.	(£221)	(£228)	58	30	104	56	56
Trinidad and Tobago—							
Pig-lead	14	—	—	(d) 27	(d) 72	14	(a)
Red and white lead, etc.	40	125	75	140	475	61	99
Canada (b)—							
Pig-lead and scrap	24	34	8	68	2,317	1,257	(d) 78
Bars, sheets and pipes ..	13	7	7	4	6	17	2
White lead, red lead and litharge	1,661	1,126	349	253	304	727	594
Newfoundland (c)—							
Bars, pipes and sheets ..	87	106	103	39	(c)	(c)	(c)

(a) Information not available.

(b) Including Newfoundland from April 1, 1949.

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

(d) Excess of re-exports.

(e) Including Uganda up to 1948 inclusive.

(f) Included with Kenya.

IMPORTS OF LEAD, ETC. (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES (Cont.)							
Aden—							
Ore	—	1	11	—	—	—	—
Ceylon—							
Pig-lead	—	25	11	30	22	19	13
Sheets and pipes	10	152	7	23	6	33	25
Tea-lead	1,784	54	—	—	4	—	2
Cyprus—							
Sheets and pipes	4	19	26	6	10	18	122
Hong Kong (total imports)—							
Bars, sheets, pipes, etc.	(a)	103	68	596	368	235	1,120
India—							
Ore	5	75	808	714	6	31	214
Pig-lead, bars, etc.	7,821	4,125	5,111	8,534	6,180	14,814	7,680
Sheets, pipes and tubes	14,586	554	742	101	430	207	177
Tea-lead	—	—	—	—	—	71	4
Lead (government stores)	420	944	—	—	(a)	(a)	(a)
Litharge, red and white lead, etc.	17	5	125	5	40	277	17
Malaya (total imports)—							
Pig-lead	(a)	232	3	35	198	43	142
Pipes and sheets	(a)	23	11	69	46	70	136
Palestine—							
Pig-lead, sheets pipes, etc.	84	145	(a)	(a)	(b)	(b)	(b)
Australia—							
Sheets and pipes, etc.	—	—	1	—	5	19	19
Litharge, red and white lead, etc. (c)	—	130	98	49	216	95	(d) 471
Fiji—							
Pig-lead and sheet	33	15	19	10	17	20	87
New Zealand—							
Pig-lead and bars	2,223	3,360	2,951	3,781	937	633	1,306
Sheets and pipes	346	84	159	105	63	126	34
White lead	522	444	102	206	675	361	407
Irish Republic—							
Pig-lead	140	116	649	524	844	1,445	1,174
Sheets and pipes	384	166	770	1,423	587	687	1,103
Red and white lead, etc.	303	460	320	530	433	427	521
FOREIGN COUNTRIES							
Austria—							
Ore	(a)	(a)	3,543	3,366	2,835	2,953	2,933
Pig-lead, alloys, etc.	(a)	(a)	(a)	(a)	3,998	1,620	6,645
Scrap	(a)	(a)	(a)	(a)	257	218	31
Belgium-Luxemburg E.U.—							
Ore	7,636	28,625	71,319	87,547	97,499	81,754	96,761
Pig-lead	(a)	(a)	(a)	19,450	20,489	32,130	27,061
Scrap	(a)	(a)	(a)	3,402	10,930	3,158	7,423
Sheets, bars, pipes and wire	(a)	(a)	(a)	2	—	30	—
Red and white lead, etc.	(a)	(a)	(a)	238	442	898	765
Bulgaria—							
Pig-lead and scrap	8	1	(a)	(a)	(a)	(a)	(a)
Tubes, wire, etc.	1	—	(a)	(a)	(a)	(a)	(a)
Red and white lead, etc.	15	9	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

(b) See "Israel" under Foreign Countries.

(c) Years ended June 30 of that stated.

(d) Calendar year.

IMPORTS OF LEAD, ETC. (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Czechoslovakia—							
Ore		—	3,620	(c) 3,471	(a)	(a)	(a)
Pig-lead, ashes, scrap and alloys	(a)	5,943	19,228	(c) 12,625	(a)	(a)	(a)
Sheets, plates, pipes, wire, etc.		—	79	(c) 13	(a)	(a)	(a)
Red and white lead, etc.		77	171	(c) 435	(a)	(a)	(a)
Denmark—							
Pig-lead	3,485	6,201	4,162	5,959	9,342	15,976	15,396
Scrap	56	1,630	1,119	3,387	1,361	1,736	3,853
Sheets, pipes and wire	21	199	93	31	61	28	54
Red and white lead	137	983	429	693	505	1,009	865
Finland (total imports)—							
Pig-lead	1,929	2,686	5,300	2,539	4,960	5,667	6,149
Scrap	—	—	—	1	—	—	219
Sheets, pipes, wire, etc.	—	127	732	464	432	631	1,110
Red and white lead, etc.	173	168	777	618	896	1,648	2,562
France—							
Ore, (b)—	20,626	42,088	69,975	51,908	27,436	43,414	49,767
Pig-lead, including argen- tiferous and antimonial	19,516	41,231	50,645	35,906	22,685	29,106	37,443
Scrap	76	1,110	2,166	3,520	1,706	1,448	3,484
Sheets, etc.	—	114	255	366	16	8	145
Red and white lead, etc.	233	168	1,096	1,865	476	754	3,866
Germany—							
Ore				—	2,322	29,173	39,310
Pig-lead, scrap and alloys	(a)	(a)	(a)	881	1,327	3,791	7,077
Sheets, pipes, wire, etc.				297	32	2	—
Red and white lead, etc.				22	148	142	11
Iceland—							
Pig-lead	80	18	(a)	(a)	18	9	10
Red and white lead	41	23	(a)	(a)	5	14	43
Italy—							
Ore	—	—	—	53	574	1	2,321
Pig-lead, scrap and alloys	246	276	7,654	10,740	10,003	8,768	8,816
Netherlands—							
Ore		58	1,656	2,071	5,273	9,356	4,280
Pig-lead	(a)	20,953	26,000	20,130	36,904	29,221	25,342
Scrap		104	201	70	32	86	327
Sheets and wire		46	1,238	—	7	1,819	2,139
Red and white lead		1,292	3,021	4,095	5,714	6,591	4,490
Norway—							
Pig-lead	1,634	5,152	4,101	4,855	5,929	7,488	7,397
Bars and sheets	230	677	903	672	1,007	892	994
Tubes, wire, etc.	129	344	254	330	462	331	(a)
Red and white lead	365	200	570	507	760	749	(a)
Portugal—							
Pig-lead, alloys, etc.	326	2,816	2,404	2,865	2,031	1,434	1,535
Red and white lead, etc.	497	662	596	462	(a)	162	201
Spain—							
Ore	315	295	206	8	—	549	10
Pig-lead and scrap	84	74	68	125	130	197	1,258
Sweden—							
Pig-lead	1,369	18,353	17,483	13,458	10,933	11,996	16,804
Scrap	136	334	635	247	389	420	(a)
Sheets and pipes	95	1,311	2,066	1,100	1,075	1,737	(a)
Red and white lead	1,677	2,102	2,349	2,478	1,782	4,235	(a)

(a) Information not available.

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

(c) January to October only.

IMPORTS OF LEAD, ETC. (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951				
FOREIGN COUNTRIES (Cont.)											
Switzerland—											
Ores, etc.	6	26	1	—	—	1	—				
Pig-lead, scrap, etc.	1,158	21,015	13,681	14,976	16,082	19,299	14,376				
Sheets, pipes, wire, etc.	142	640	650	369	302	668	604				
Red and white lead	50	492	180	733	594	829	1,001				
Algeria—											
Ore, matte and slags	81	22	228	27	29	24	24				
Pig-lead	1,643	3,209	4,471	4,430	2,691	2,705	2,837				
Scrap								39	35	50	23
Red and white lead, etc.								157	105	128	165	198	200	213
Egypt—											
Pig-lead and scrap	54	100	81	81	345	17	(a)				
Sheets, pipes, wire, etc.	83	151	436	471	739	283	(a)				
Red and white lead	811	514	45	482	398	(a)	(a)				
Madagascar—											
Pig-lead, bars and sheets	120	16	21	104	(a)	(a)	(a)				
Red and white lead	25	12	12	42	(a)	(a)	(a)				
Morocco (French)—											
Pig-lead, sheets and wire	161	121	205	(a)	(a)	(a)	(a)				
Mozambique—											
Bars, sheets and wire	11	14	33	21	40	38	90				
Tunis—											
Ore, matte and slag	156	1,401	1,566	4,938	5,566	(a)	(a)				
Pig-lead, bars and scrap	26	163	30	—	(a)	(a)	(a)				
Sheets, etc.	9	74	—	284	(a)	(a)	(a)				
Red and white lead, etc.	—	—	—	1	(a)	(a)	(a)				
Cuba (total imports)—											
Pig-lead	379	(a)	(a)	310	231	(a)	(a)				
Sheets, pipes and wire	39	(a)	(a)	378	265	(a)	(a)				
Mexico—											
Pig-lead	31	41	26	25	(a)	(a)	(a)				
Sheets and pipes	27	37	449	210	(a)	(a)	(a)				
Red and white lead	158	182	(a)	(a)	(a)	(a)	(a)				
United States—											
Ore, matte and flue dust (Pb content)	68,476	25,785	42,540	30,273	109,179	86,206	29,155				
Bullion and base bullion (Pb content)	18	72	1,584	9,785	1,014	1,196	41				
Pig-lead and bars (Pb content)	198,492	92,931	141,703	218,648	243,248	387,826	159,729				
Scrap (Pb content)	2,543	2,267	14,173	25,716	12,505	20,264	7,060				
Sheets, pipes, wire, etc.	16	21	60	161	158	185	228				
Red and white lead, etc.	17	73	421	1,382	271	992	4,194				
Argentina—											
Ore	6,069	4,742	(a)	(a)	(a)	(a)	(a)				
Pig-lead	1	2									
Sheets and plates	7	—									
Tubes and wire	—	1									
Red and white lead	536	539									
Brazil (total imports)—											
Pig-lead	14,321	23,466	12,617	4,676	15,001	19,426	(a)				
Sheets and pipes	53	343	464	204	376	(a)	(a)				
Red and white lead	505	366	304	618	990	(a)	(a)				
Chile—											
Pig-lead	790	1,928	1,822	1,163	998	1,499	886				
Bars and sheets	176	250	(a)	(a)	(a)	(a)	(a)				
Red and white lead	114	122	(a)	(a)	(a)	(a)	(a)				
Colombia—											
Ingots, bars, tubes and alloys	548	373	(a)	(a)	448	773	(a)				
Red and white lead	98	7	(a)	(a)	116	69	(a)				

(a) Information not available.

IMPORTS OF LEAD, ETC. (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Peru—							
Pig-lead, sheets, etc. . .	14	22	(a)	(a)	(a)	(a)	(a)
Red and white lead . . .	76	63	(a)	5	(a)	(a)	(a)
Uruguay—							
Pig-lead	1,659	1,897	1,694	1,721	615	2,860	(a)
Red and white lead, etc.	(a)	(a)	(a)	50	29	23	(a)
Venezuela—							
Pig-lead	638	187	78	546	(a)	(a)	(a)
Red and white lead . . .	50	75	84	95	(a)	(a)	(a)
China—							
Pig-lead	} (a)	593	1,011	686	(a)	(a)	(a)
Scrap		685	(a)	(a)	(a)	(a)	(a)
Red and white lead, etc.		250	221	195	(a)	(a)	(a)
Iran (total imports) (b)—							
Ingots, sheets and wire	(a)	565	152	4	12	82	(a)
Israel—							
Pig-lead	} (c)	(c)	(c)	(c)	105	201	(a)
Sheets and pipes . . .					91	45	(a)
Red lead					166	90	(a)
Japan—							
Ore	(a)	(a)	503	(a)	(a)	36	569
Pig-lead	179	(a)	(a)	2,480	12,932	(a)	7,100
Syria and Lebanon—							
Ingots and sheets . . .	119	215	} (a)	(a)	(a)	(a)	(a)
Pipes	15	51					
Red and white lead . . .	72	180					
Turkey—							
Pig-lead and bars . . .	899	1,350	886	623	684	2,038	320
Tubes and wire	51	47	136	23	95	200	119
Red and white lead . . .	561	295	214	329	191	682	351

(a) Information not available.

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

(c) See "Palestine" under British Countries.

MAGNESITE
PRODUCTION OF MAGNESITE
(Long tons)

Producing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Dead-burnt (d)	28,600	34,400	22,300	30,800	42,500	39,600	48,300
Kenya—							
Crude	14	60	40	—	10	178	—
Southern Rhodesia—							
Crude	4,211	3,763	5,238	5,632	7,519	8,479	14,580
Tanganyika—							
Crude	—	—	—	—	—	82	2,673
Union of South Africa—							
Crude	6,967	6,893	8,282	10,492	10,321	11,596	18,477
Canada—							
Calcined Magnesitic Dolomite (b)	£287,325	£289,055	£289,723	£393,972	£408,843	£565,092	£831,111
Cyprus (exports)—							
Crude	283	3	30	1	20	20	20
India—							
Crude	28,338	44,677	51,536	48,327	90,564	52,859	117,071
Australia—							
Crude	23,082	22,033	36,811	32,442	33,590	35,392	39,134
New Zealand—							
Crude	111	374	362	540	559	341	580
FOREIGN COUNTRIES							
Austria—							
Crude	93,448	95,744	219,622	405,126	519,444	542,065	654,339
Caustic (c)	9,551	20,008	31,044	52,536	76,784	73,385	76,468
Dead-burnt (c)	20,531	33,807	94,379	131,337	176,576	179,588	211,813
Bricks (c)	(a)	26,727	56,859	110,644	107,315	110,054	132,697
Germany (Federal) ..	(a)	(a)	(a)	(a)	(a)	1,290	(a)
Greece—							
Crude	1,630	715	21,447	11,021	16,820	25,841	59,917
Calcined (c)	620	—	7,987	2,837	1,996	9,435	25,656
Italy—							
Crude	486	603	1,644	986	723	(a)	(a)
Norway—							
Crude	1,717	1,155	1,683	1,712	1,090	1,821	1,430
Calcined (c)	582	458	647	979	528	844	480
Bricks (c)	405	331	209	170	219	64	200
Spain	7,500	10,594	5,309	9,741	6,585	9,637	15,613
Yugoslavia—							
Crude	(a)	40,000	15,000	51,000	86,000	58,333	88,495
Egypt	49	—	—	—	—	—	—
Mexico (exports)—							
Crude and calcined ..	—	4,545	(a)	(a)	(a)	(a)	(a)
United States—							
Crude	300,412	289,860	335,708	(a)	256,531	383,386	598,363
Caustic (sales) (c) ..	38,634	40,338	23,956	29,651	29,022	37,006	44,626
Dead-burnt (sales) (c) ..	227,676	218,595	281,179	294,704	223,562	299,500	365,890
Venezuela—							
Crude	5,500	2,707	2,933	1,870	—	1,379	—
Turkey—							
Crude	758	98	846	3,353	6,269	443	497
Calcined	136						

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

(a) Information not available.

(b) Including brucite.

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

(d) Magnesia extracted from sea-water.

EXPORTS OF MAGNESITE, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951	
BRITISH COUNTRIES								
United Kingdom—								
Magnesium and alloys ..	7	371	104	277	1,126	387	420	
Magnesium compounds	3,999	9,663	8,834	9,947	8,572	10,469	13,415	
Southern Rhodesia—								
Crude and calcined ..	3,851	4,444	4,973	5,552	3,742	2,964	11,668	
Tanganyika—								
Magnesite	—	—	—	—	—	82	2,673	
Union of South Africa—								
Crude and calcined ..	—	—	54	—	—	255	304	
Canada—								
Basic refractory materials	1,384	2,234	4,346	3,890	1,819	2,323	4,377	
Cyprus—								
Crude	283	3	30	1	20	20	20	
India—								
Magnesite	3,141	6,662	17,025	14,171	37,099	17,462 17,047	49,085	
Chloride	151	1,921	3,928	2,167	2,905	1,653	1,986	
Australia—								
Crude and calcined ..	—	—	39	354	—	36	64	
Sulphate	(b) —	(b) 607	(b) 449	(b) 387	317	155	113	
FOREIGN COUNTRIES								
Austria—								
Crude	(a)	(a)	133	—	78	214	420	
Caustic			7,817	15,037	32,944	48,490	61,452	
Dead-burnt			30,332	53,379	78,693	69,242	82,417	
Bricks			44,799	67,490	88,157	93,906	103,156	
Belgium-Luxemburg E. U.—								
Crude	(a)	(a)	(a)	1,040	162	379	431	
Calcined				2	24	263	20	
Carbonate				14	7	2	1	
Chloride				11	137	18	57	
Sulphate				144	117	203	214	
Czechoslovakia—								
Crude	(a)	232	—	(c) —	(a)	(a)	(a)	
Calcined			8,086	29,894	(c) 32,038	(a)	(a)	(a)
Bricks			2,843	8,625	(c) 12,784	(a)	(a)	(a)
Chloride, oxide and sulphate			—	10	(c) —	(a)	(a)	(a)
France—								
Magnesium and alloys	—	10	6	2	95	735	636	
Magnesium compounds	558	5,110	10,044	10,602	4,303	8,773	9,381	
Germany—								
Crude and calcined ..	(a)	(a)	(a)	15	20	108	260	
Carbonate, oxide, etc. ..				—	36	428	356	
Chloride				774	8,436	12,050	16,047	
Sulphate				4,321	18,570	17,177	22,297	
Greece—								
Crude	—	—	42	2,473	787	1,977	18,368	
Caustic	—	—	3,051	298	78	4,443	22,378	
Dead-burnt	—	—	310	—	—	—	—	
Italy—								
Magnesium metal ..	(a)	—	170	111	171	(a)	(a)	
Crude	(a)	(a)	6	282	14	3	39	
Netherlands—								
Calcined	(a)	2,229	7,334	9,456	7,475	18,898	17,077	
Sulphate	(a)	(a)	(a)	(a)	(a)	921	551	

(a) Information not available.

(b) Years ended June 30 of that stated.

(c) January to October only.

EXPORTS OF MAGNESITE, ETC. (Cont.)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Norway—							
Crude	25	9	26	—	38	—	(a)
Bricks	412	274	158	165	149	83	(a)
Sweden—							
Crude and calcined ..	—	45	72	46	28	10	—
Yugoslavia—							
Crude	(a)	(a)	(a)	(a)	(a)	661	16,283
Ground and dead-burnt	(a)	(a)	(a)	(a)	(a)	15,820	18,781
Mexico—							
Crude and calcined ..	—	4,545	(a)	(a)	—	—	(a)
United States—							
Magnesium metal ..	588	185	281	245	386	523	513
Oxide and manufactures	8,153	15,225	(a)	(a)	(a)	(a)	(a)
Bricks, etc.	8,256	11,832	11,538	8,943	(a)	(a)	(a)
Peru—							
Sulphate	694	427	423	373	476	595	(a)
Korea—							
Crude and calcined ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Turkey—							
Crude	—	—	—	1,966	3,149	591	11
Calcined	—	—	—	—	321	—	—

(a) Information not available.

IMPORTS OF MAGNESITE, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Crude and calcined ..	3,189	1,427	28,961	34,599	28,563	21,648	22,967
Magnesium and alloys ..	1,084	—	—	—	87	(a)	(a)
Chloride	109	898	3,368	7,068	8,738	5,868	8,401
Other salts	—	6	(d) 8	461	(d) 1	369	2,045
Union of South Africa—							
Carbonate and sulphate	4,669	3,817	4,644	4,998	3,273	3,320	(a)
Chloride	16	233	143	294	186	227	(a)
Canada—							
Calcined and dead-burnt	4,007	4,429	8,338	6,887	4,182	5,337	5,821
Carbonate	258	331	488	620	882	1,498	1,051
Sulphate	2,272	3,092	2,596	2,497	2,485	2,494	2,737
Bricks	(£68,571)	(£102,200)	(£115,395)	(£107,052)	(£129,434)	(£136,294)	(£167,124)
Other salts	330	616	378	440	383	549	853
India—							
Chloride	—	—	2	1	1	—	—
Sulphate	21	27	61	1	2	—	1
Other salts	205	781	300	503	621	252	776
Palestine—							
Sulphate	—	184	(a)	(a)	(a)	(a)	(a)
Australia—							
Crude and calcined ..	(a)	(b) 28	(b) 32	(b) 93	77	844	530
Oxide	33	33	22	66	71	86	81
Carbonate	120	149	152	307	169	228	237
Chloride	31	21	139	207	149	94	444
Sulphate	183	300	905	108	103	445	330
New Zealand—							
Sulphate	229	369	414	328	290	270	423
Irish Republic—							
Magnesium salts ..	221	447	400	348	353	507	523
FOREIGN COUNTRIES							
Austria—							
Sulphate	(a)	(a)	3,774	7,457	5,197	6,077	7,941
Chloride	(a)	(a)	223	1,307	2,007	2,492	3,030
Belgium-Luxemburg E.U.—							
Crude				1,893	1,845	3,085	297
Calcined				1,410	579	479	2,667
Bricks				(a)	(a)	8,818	(a)
Magnesium	(a)	(a)	a	43	190	163	181
Carbonate				276	144	412	368
Chloride				478	466	652	576
Sulphate				1,457	1,748	1,697	2,372
Bulgaria—							
Crude	—	4	(a)	(a)	(a)	(a)	(a)
Sulphate	15	28	(a)	(a)	(a)	(a)	(a)
Czechoslovakia—							
Calcined		437	1,232	(c) 757	(a)	(a)	(a)
Bricks		311	6,601	(c) 2,437	(a)	(a)	(a)
Chloride	(a)	255	1,538	(c) 1,461	(a)	(a)	(a)
Oxide, impure		60	178	(c) 471	(a)	(a)	(a)
Sulphate		65	1,587	(c) —	(a)	(a)	(a)
Denmark—							
Crude	458	1,134	2,123	2,662	1,311	1,592	1,818
Chloride	291	972	1,859	1,857	382	994	1,339
Oxide	6	172	212	444	334	358	515
Sulphate	149	379	293	447	427	521	416

(a) Information not available.

(b) Year ended June 30 of that stated.

(c) January to October only.

(d) Excess of re-exports.

IMPORTS OF MAGNESITE, ETC. (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Finland (total imports)—							
Crude and calcined ..	—	701	695	1,357	955	1,475	1,189
Oxide	3	27	23	12	13	15	68
Carbonate	19	46	96	162	298	72	292
Chloride	30	317	539	678	767	1,300	1,207
Sulphate	—	36	109	77	26	144	246
France—							
Crude	482	2,018	2,987	(a)	(a)	(a)	(a)
Calcined	1,459	1,989	13,269	17,306	16,923	11,843	16,187
Magnesium and alloys ..	2	55	34	15	—	—	82
Carbonate	5	263	578	303	194	329	494
Chloride	1	1	46	1	—	22	232
Sulphate	69	474	—	—	—	520	1,115
Germany (Federal)—							
Crude	(a)	(a)	(a)	28,464	48,644	86,820	109,316
Caustic							
Dead-burnt							
Hungary—							
Crude and calcined ..	(a)	4,425	13,458	(a)	(a)	(a)	(a)
Italy—							
Magnesium metal ..	(a)	—	47	23	25	(a)	(a)
Crude	(a)	(a)	2,064	1,971	822	1,306	5,385
Caustic	(a)	(a)	4,017	5,185	7,748	8,017	7,574
Chloride	(a)	(a)	(a)	—	2,181	980	867
Sulphate	(a)	(a)	(a)	500	904	2,367	2,536
Netherlands—							
Crude	(a)	302	1,183	558	418	819	983
Calcined							
Sulphate							
Chloride							
Crude	(a)	4,306	15,142	10,140	12,981	21,406	18,600
Sulphate	(a)	597	757	1,775	5,094	7,860	5,899
Chloride	(a)	(a)	(a)	4,254	3,650	3,778	3,653
Norway—							
Calcined	327	568	1,278	2,058	1,110	783	1,013
Bricks	—	—	—	—	—	—	(a)
Chloride	67	809	562	919	869	3,390	(a)
Portugal—							
Crude and calcined ..	79	104	89	87	170	55	129
Carbonate	46	75	68	163	74	63	102
Chloride	29	27	32	50	49	44	(a)
Oxide	6	5	12	5	13	8	(a)
Sulphate	700	1,018	443	804	698	729	1,098
Sweden—							
Crude and calcined ..	1,133	3,174	2,727	2,720	2,616	2,212	2,080
Bricks	1,805	8,260	7,508	10,402	11,192	11,364	(a)
Chloride	302	1,359	1,493	1,729	1,673	1,579	(a)
Switzerland—							
Calcined	167	—	—	—	—	—	—
Yugoslavia—							
Calcined and ground ..	(a)	(a)	(a)	(a)	(a)	7,273	7,149
Bricks	(a)	(a)	(a)	(a)	(a)	4,460	1,681
Algeria—							
Calcined	14	2	2	8	13	9	8
Belgian Congo—							
Calcined	85	128	571	(a)	(a)	470	(a)
Sulphate	585	820	628	(a)	(a)	732	(a)
Chloride	(a)	—	1	(a)	(a)	106	(a)
Egypt—							
Sulphate	148	888	343	393	447	(a)	(a)
Cuba (total imports)—							
Calcined	201	(a)	(a)	7	78	(a)	(a)
Carbonate	97	(a)	(a)	103	36	(a)	(a)

(a) Information not available.

IMPORTS OF MAGNESITE, ETC. (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Mexico—							
Crude	1,153	1,759	2,740	2,285	(a)	(a)	(a)
Calcined	20	23	(a)	(a)	(a)	(a)	(a)
Sulphate	210	164	(a)	(a)	(a)	(a)	(a)
United States—							
Crude	—	1	—	86	—	8	—
Calcined	397	394	470	823	1,324	1,898	3,743
Dead-burnt	4,916	1,673	1,560	2,716	2,206	12,607	25,701
Oxide	—	45	—	—	—	—	—
Carbonate, precipitated	59	129	122	252	171	209	173
Chloride	1	34	2	5	5	7	2
Sulphate (incl. Kieserite)	—	—	—	—	409	3,187	2,631
Argentina—							
Carbonate	170	149	} (a)	(a)	(a)	(a)	(a)
Chloride	—	102					
Oxide	6	8					
Sulphate and chlorate ..	10	20					
Brazil (total imports)—							
Oxide	191	38	55	209	134	(a)	(a)
Sulphate	292	198	401	147	44	(a)	(a)
Chile—							
Crude	95	16	} (a)	(a)	(a)	(a)	(a)
Calcined	1,065	1,005					
Chloride	4	8					
Carbonate, oxide, etc. ..	4	7					
Sulphate	825	500					
Colombia—							
Calcined	24	36	} (a)	(a)	(a)	(a)	(a)
Carbonate	17	4					
Chloride	1	4					
Sulphate	170	71					
Peru—							
Oxide and carbonate ..	678	412	(a)	53	(a)	(a)	(a)
Salts	15	30	(a)	(a)	(a)	(a)	(a)
Venezuela—							
Sulphate	57	119	114	112	(a)	(a)	(a)
Japan—							
Crude and calcined ..	(a)	4,023	4,024	21,726	(a)	19,033	(a)
Syria and Lebanon—							
Ground and calcined ..	9	—	} (a)	(a)	(a)	(a)	(a)
Chloride	15	10					
Oxide	10	4					
Sulphate	71	194					
Turkey—							
Calcined	5	—	—	5	12	29	—
Carbonate, chloride, etc.	94	31	26	170	123	209	131
Oxide	14	5	11	6	4	21	11
Sulphate	1	9	90	30	43	197	155

(a) Information not available.

MANGANESE
PRODUCTION OF MANGANESE ORE
(Long tons)

Producing Country	Estimated Manganese Content													
	1945	1946	1947	1948	1949	1950	1951	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES														
Great Britain (b) ..	11,299	—	—	—	—	—	—	3,400	—	—	—	—	—	—
Gold Coast (exports) ..	701,750	765,300	588,919	629,973	741,069	711,366	806,080	365,000	398,000	306,000	328,000	380,000	370,000	420,000
Northern Rhodesia ..	1,934	1,398	—	3,898	3,975	1,723	1,260	(a)	(a)	(a)	(a)	(a)	(a)	528
Southern Rhodesia ..	—	—	—	10	164	—	—	—	—	—	—	—	—	—
South West Africa ..	—	—	—	—	—	978	6,456	—	—	—	—	—	470	3,100
Union of South Africa ..	112,737	234,141	283,662	272,029	644,831	778,449	746,888	47,000	102,000	123,000	119,000	265,000	318,000	314,000
Canada (sales) ..	(c)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Burma ..	750	—	201	3	—	—	—	103,000	124,000	221,000	258,000	317,000	433,000	629,000
India ..	210,583	252,916	451,035	525,876	645,825	882,929	1,283,929	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Malaya ..	(c) 2,500	—	—	—	—	—	—	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Australia ..	984	1,385	1,776	3,447	13,087	14,869	7,968	(a)	(a)	(a)	(a)	(a)	(a)	4,600
New Zealand ..	—	402	330	206	305	352	402	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Papua ..	170	44	116	(f) 160	(f) 68	22	40	(a)	(a)	(a)	(a)	(a)	(a)	20
Fiji (exports) ..	—	—	5	70	100	240	631	(a)	(a)	(a)	(a)	(a)	(a)	(a)
TOTAL ..	1,042,000	1,256,000	1,326,000	1,436,000	2,038,000	2,391,000	2,854,000							
FOREIGN COUNTRIES														
France ..	1,963	1,737	871	670	466	(a)	(a)	428	253	132	79	70	(a)	(a)
Greece ..	—	15	—	886	148	315	15,930	2,600	(a)	—	(a)	(a)	(a)	3,500
Hungary (d) ..	6,500	14,500	32,900	40,000	(a)	(a)	(a)	800	2,000	6,300	7,000	6,800	(a)	(a)
Italy ..	3,200	7,794	26,392	24,299	23,836	15,952	27,305	3,100	2,450	970	90	170	(a)	(a)
Portugal ..	7,479	5,831	2,405	237	516	758	8,270	(a)	2,400	(a)	(a)	(a)	200	2,200
Roumania (d) ..	(a)	18,510	(a)	46,000	64,000	(a)	(a)	(a)	2,450	(a)	(a)	(a)	(a)	(a)
Spain ..	24,495	29,125	22,074	18,247	18,356	16,899	22,832	10,200	11,600	8,800	7,600	8,100	7,300	9,100
Sweden ..	21,527	13,082	11,164	8,936	15,856	11,660	17,267	5,396	2,309	1,920	1,287	2,401	1,845	(a)
U.S.S.R. (estimated) ..	2,000,000	2,500,000	2,500,000	2,800,000	3,000,000	3,000,000	3,000,000	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Yugoslavia ..	(a)	7,400	12,500	13,800	13,800	13,127	12,665	(a)	2,400	4,100	4,300	(a)	(a)	(a)
Angola ..	—	1,870	690	394	18,300	9,161	45,462	(a)	800	300	200	9,500	4,580	21,800
Belgian Congo ..	—	—	8,384	12,563	12,054	16,722	69,825	(a)	—	4,200	6,300	6,027	8,400	34,900
Egypt (b) ..	46	26	29	58,973	136,380	149,766	152,910	14	8	9	17,700	41,000	45,000	51,000

(a) Information not available.
 (b) Ore containing 30% Mn and 10% Fe.
 (c) Average annual production during Japanese occupation.
 (d) U.S. Bureau of Mines.
 (e) June to December only.
 (f) Years ended June 30 of year following that stated.

PRODUCTION OF MANGANESE ORE (Cont.)

Producing Country	Estimated Manganese Content													
	1945	1946	1947	1948	1949	1950	1951	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)														
Morocco (French)	43,960	57,074	107,688	211,026	230,132	282,828	366,300	16,900	21,400	48,600	103,300	106,430	138,300	187,400
Morocco (Spanish)	—	—	—	500	643	—	1,104	—	—	(a)	220	300	25	500
Tunis	—	—	25	—	—	—	—	—	—	(a)	—	—	(a)	(a)
Cuba (b)	195,112	128,048	47,909	28,613	61,516	77,205	97,308	88,000	58,000	22,000	13,000	28,000	(a)	(a)
Mexico	42,000	26,000	33,000	50,300	53,465	34,725	77,939	18,249	11,163	13,958	23,635	23,396	14,232	28,074
United States (c)	162,803	128,246	117,524	117,034	112,621	120,046	90,000	92,300	75,000	68,900	67,500	63,194	68,446	52,000
Argentina	4,205	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Brazil	243,937	169,543	166,237	161,412	227,000	193,000	(c) 36,000	110,000	76,000	75,000	72,000	13,594	16,394	18,253
Chile	40,940	20,125	20,015	20,174	28,414	(c) 33,000	(a) 36,000	18,800	9,500	10,400	10,000	—	—	(a)
Peru	—	—	—	—	—	750	(a)	—	—	—	—	—	295	(a)
Indonesia	(g) 7,000	—	—	—	(a)	(a)	(a)	3,500	—	(a)	21,300	(a)	(a)	(a)
Japan	f 157,122	f 27,951	32,670	54,081	97,532	e 150,000	e 200,000	(a)	(a)	(a)	(a)	37,000	54,400	76,500
Korea	33,054	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Philippine Republic	(a)	(a)	3,270	25,161	(a)	25,873	16,019	(a)	(a)	1,600	12,100	(a)	(a)	(a)
Portuguese India	(a)	(a)	(a)	6,400	15,964	d 21,644	84,073	(a)	(a)	(a)	3,100	7,700	10,400	40,000
Turkey	5,015	1,675	4,560	8,195	24,607	31,670	49,719	1,800	600	1,600	3,000	10,500	12,700	24,400
New Caledonia	(a)	(a)	(a)	(a)	2,070	5,307	19,817	(a)	(a)	(a)	(a)	935	2,550	9,500
TOTAL	3,000,000	3,150,000	3,190,000	3,700,000	4,200,000	4,300,000	4,700,000	—	—	—	—	—	—	—
World's TOTAL	4,040,000	4,400,000	4,520,000	5,140,000	6,240,000	6,700,000	7,560,000	—	—	—	—	—	—	—

Manganese ore is also produced in China and Iran.

(a) Information not available.

(b) Concentrates.

(c) Shipments. Excluding the following quantities of ore containing 10 to 35% Mn, which are included with iron ore (long tons):—1945—102,078; 1946—89,654; 1947—114,788; 1948—126,823; 1949—23,361; 1950—102,919; 1951—95,000.

(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	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Metal	33	200	191	593	298	386	65
Ferro-manganese and spiegeleisen	31,729	58,636	9,069	3,236	9,267	2,520	1,437
Gold Coast—							
Ore	701,750	765,300	588,919	629,973	741,069	711,366	806,080
South West Africa—							
Ore	—	—	—	—	—	—	3,604
Union of South Africa—							
Ore	132,706	316,351	334,695	319,442	677,813	685,137	576,534
Canada—							
Spiegeleisen	3,004	792	747	645	500	316	—
Ferro-manganese	(a)	29,005	65,554	66,517	31,507	23,724	60,275
Hong Kong (re-exports)—							
Ore	—	15	—	28	12,585	1,015	—
India—							
Ore (b)	171,276	479,447	597,677	363,482	613,907	808,221	1,151,742
Ferruginous manganese ore	(a)	(a)	(a)	(a)	(a)	(a)	4,222
Ferro-manganese	—	10,900	—	—	—	—	—
Malaya (c)—							
Ore	(a)	(a)	—	—	5	71	193
Australia—							
Ore	116	87	5	5	—	6	—
Fiji—							
Ore	—	—	5	70	100	240	631
New Zealand—							
Ore	—	410	—	488	110	—	—
Papua (e)—							
Ore	(a)	(a)	(a)	(a)	160	59	(a)
FOREIGN COUNTRIES							
France—							
Ore	—	799	421	861	1,960	2,918	2,335
Manganese dioxide	—	—	31	19	23	111	45
Ferro-manganese	17	334	951	102	172	34,378	28,827
Germany (Federal)—							
Ore	(a)	(a)	(a)	—	138	103	160
Ferro-manganese	(a)	(a)	(a)	—	36	510	(d) 212
Greece—							
Ore	—	—	—	—	—	329	14,154
Italy—							
Ore, including manganese-ferrous iron ore	—	—	—	1	72	5	49
Ferro-manganese	—	—	—	—	597	285	466
Netherlands—							
Ore	(a)	233	839	2,134	2,022	2,394	2,319
Norway—							
Ferro-manganese	162	13,178	31,761	58,133	52,879	82,178	79,161
Ferro-silico-manganese	729	2,258	3,817	9,411	8,022	19,182	22,482
Portugal—							
Ore	3,869	1,415	3,231	146	2,460	2,370	10,370
Spain—							
Ore	70	—	—	104	103	—	6

(a) Information not available.

(b) Including manganese ore mined in India but exported via the Portuguese port of Mormugao as follows:—
1945, Nil; 1946, 44,847 tons; 1947, 58,220 tons; 1948, 33,355 tons; 1949, 70,864 tons; 1950, 79,941 tons;
1951, 90,465 tons.

(c) Including re-exports.

(d) January to September only.

(e) Years ended June 30 of that stated.

EXPORTS OF MANGANESE ORE, ETC. (Cont.)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Sweden—							
Ore	11	296	509	335	555	1,020	584
Ferro-manganese ..	271	287	1,326	117	725	981	369
Spiegeleisen	—	107	114	—	—	—	—
Ferro-silico-manganese	380	48	53	20	203	878	220
U.S.S.R.—							
Ore	(b)	(b)	(b)	(b)	(b)	(b)	(b)
Angola—							
Ore	3,937	—	—	2,657	8,670	12,797	(a)
Belgian Congo—							
Ore	9,948	14,482	10,947	15,601	16,717	13,866	64,685
Egypt—							
Ore	—	—	(a)	92,426	127,298	(a)	(a)
Morocco (French)—							
Ore	26,936	62,103	95,468	205,010	221,250	263,048	352,729
Tunis—							
Ore	—	—	241	—	(a)	(a)	(a)
Cuba—							
Ore	277,303	140,619	(a)	29,479	57,323	85,008	143,559
Mexico—							
Ore	39,737	23,021	53,691	56,461	51,851	31,581	86,749
Mn content	18,269	11,163	13,958	23,635	23,396	14,233	28,059
United States—							
Ore	4,770	10,004	7,164	8,245	4,495	8,002	7,170
Ferro-manganese and spiegeleisen	2,883	9,342	18,280	17,630	5,917	841	641
Brazil—							
Ore	240,785	149,793	139,848	139,022	147,529	145,996	(a)
Chile—							
Ore	87,937	166,374	26,208	17,283	10,137	20,403	20,668
China—							
Ore	(a)	2	—	395	(a)	(a)	(a)
Indonesia—							
Ore	(a)	1,065	2,579	1,486	984	3,248	(a)
Japan—							
Ore	(a)	(a)	(a)	(a)	(a)	101	79
Ferro-manganese ..	(a)	(a)	(a)	(a)	(a)	2,496	(a)
Silico-manganese ..	(a)	(a)	(a)	(a)	(a)	451	(a)
Philippine Republic—							
Ore	(a)	(a)	3,700	41,409	21,966	(a)	(a)
Portuguese India—							
Ore	—	—	99	4,689	11,005	21,644	63,399
Turkey—							
Ore	—	—	30	—	7,517	18,254	45,473
New Caledonia—							
Ore	—	—	—	—	2,302	1,813	20,917

(a) Information not available.

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

	1945	1946	1947	1948	1949	1950	1951
Netherlands	(a)	(a)	(a)	517	(a)	(a)	1,968
Norway	—	—	9,881	4,904	15,181	(a)	(a)
Sweden	—	—	5,890	11,902	15,081	(a)	(a)
United States (total imports)	135,129	216,000	295,541	381,455	179,829	58,539	2,309

IMPORTS OF MANGANESE ORE, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Ore	318,084	200,078	315,377	449,922	470,575	401,628	381,148
Metal	—	—	—	—	6	40	86
Ferro-manganese and spiegeleisen	(b) 25	150	1,685	—	—	485	1,167
Ferro-silico-manganese	10,887	7,325	9,014	11,057	9,100	10,464	12,568
Union of South Africa—							
Ferro-manganese	126	5	1	29	83	18	(a)
Manganese dioxide	558	565	951	572	744	613	(a)
Canada—							
Ore	177,033	128,592	199,556	205,623	123,084	121,158	198,287
Ferro-manganese	186	1,007	487	484	1,327	908	563
Hong Kong (total imports)							
Ore	(a)	99	90	107	7,574	342	267
Malaya (total imports)—							
Ore	(a)	(a)	45	528	180	—	170
Australia—							
Ore	535	1,376	1,413	8,138	21,808	15,058	2,830
Ferro-manganese	(a)	739	144	64	709	339	80
FOREIGN COUNTRIES							
Austria—							
Ore	(a)	(a)	—	8,346	13,571	7,307	24,501
Belgium-Luxemburg E.U.—							
Ore	25,258	58,117	78,737	(a)	161,295	45,102	111,874
Ferro-manganese	(a)	(a)	(a)	(a)	52,667	47,136	78,626
Czechoslovakia—							
Ore	(a)	4,042	7,783	(d) 70,448	(a)	(a)	(a)
Denmark—							
Ore (c)	451	1,135	257	896	460	1,560	2,771
Finland (total imports)—							
Ferro-manganese and spiegeleisen	471	904	1,197	1,618	1,030	696	1,637
Manganese dioxide	394	30	121	419	181	85	350
France—							
Ore	38,601	88,416	161,176	233,937	267,065	335,173	424,838
Ferro-manganese	1,987	11,930	11,905	244	148	102	153
Manganese dioxide	1,723	—	5,943	—	5	36	18
Germany (Federal)—							
Ore	(a)	(a)	(a)	2,759	60,624	147,677	260,978
Ferro-manganese	(a)	(a)	(a)	2,365	3,427	1,369	(e) 2,090
Italy—							
Ore, including mangani-ferous iron ore	—	7,135	40,840	49,789	46,688	21,851	54,491
Spiegeleisen	—	—	197	58	—	1,537	3,329
Ferro-manganese	—	1,066	199	4,719	2,939	1,696	219
Ferro-silico-manganese	—	—	—	101	660	—	—
Netherlands—							
Ore	(a)	3,040	18,249	5,052	17,724	8,714	6,819
Norway—							
Ore	10,415	47,294	102,706	132,038	164,083	160,001	198,440
Spain—							
Ore	7,799	855	3,693	—	3,335	2,274	6,233
Ferro-manganese	5	1	11	36	2	3,476	866

(a) Information not available.

(b) Excess of re-exports.

(c) Chemical grade.

(d) January to October only.

(e) January to September only.

IMPORTS OF MANGANESE ORE, ETC. (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Sweden—							
Ore (chemical grade) ..	402	285	732	814	784	1,142	(a)
do. (metallurgical grade) ..	3,978	21,271	18,807	14,964	32,525	28,308	49,889
Ferro-manganese ..	1,952	5,362	583	2,073	1,866	2,258	(a)
Spiegeleisen ..	1,100	6,257	607	—	20	128	(a)
Ferro-silico-manganese	380	420	399	453	328	121	(a)
Yugoslavia—							
Ore	(a)	(a)	(a)	(a)	(a)	4,471	8,978
Algeria—							
Ore	—	—	79	21	8	30	11
Mexico—							
Ferro-manganese ..	790	474	(a)	(a)	(a)	(a)	(a)
United States—							
Ore	1,170,450	1,357,392	1,169,105	1,316,743	1,297,300	1,805,050	1,852,612
<i>Mn content</i>	565,970	662,485	560,621	627,479	601,470	828,384	828,102
Ferro-manganese ..	31,715	28,687	72,596	87,697	58,048	96,691	106,932
<i>Mn content</i>	24,727	23,132	58,197	70,024	46,577	76,700	84,773
Argentina—							
Dioxide and borate of manganese	53	481	(a)	(a)	(a)	(a)	(a)
Ferro-manganese ..	2,405	1,677	(a)	(a)	(a)	(a)	(a)
Chile—							
Ferro-manganese ..	496	201	257	132	(a)	(a)	(a)
Japan (total imports)—							
Ore	(a)	—	—	36,946	(a)	(a)	(a)

(a) Information not available.

MERCURY
PRODUCTION OF MERCURY
(Lb.)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Southern Rhodesia ..	50	—	—	—	—	—	—
Union of South Africa ..	64,789	58,093	—	—	—	—	—
Australia	245	—	—	—	—	—	—
New Zealand	2,294	—	—	—	—	—	—
FOREIGN COUNTRIES							
Austria (c)	(a)	(a)	(a)	(a)	419	2,866	2,315
Czechoslovakia	(a)	64,651	(a)	(b) 60,000	(b) 60,000	(a)	(a)
Italy	1,962,000	3,862,000	4,096,000	2,906,000	3,384,000	4,054,000	4,092,000
Sweden	110	—	—	—	—	—	—
Spain	3,093,000	3,177,000	4,225,985	1,723,433	2,454,058	3,801,900	(b) 3,040,000
Yugoslavia	(a)	675,000	720,000	830,000	970,000	1,091,000	1,113,000
Algeria	25,404	25,860	25,800	28,990	7,776	—	—
Mexico	1,250,021	886,282	735,945	363,015	412,639	285,505	613,670
United States	2,337,988	1,926,448	1,766,544	1,093,488	754,680	344,660	554,268
Bolivia (exports)	214	—	—	99	—	—	1,407
Chile	65,491	59,569	39,143	35,510	57,300	24,250	8,671
Peru	15,803	381	—	—	—	—	—
China	152,000	(a)	(a)	(a)	(a)	(a)	(a)
Japan	236,500	104,300	123,113	128,351	187,031	103,282	178,138
Turkey	12,008	—	7,448	2,052	—	—	—
WORLD'S TOTAL (b) ..	10,000,000	11,500,000	12,200,000	7,700,000	8,800,000	10,300,000	10,200,000

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

(a) Information not available.

(b) Estimated.

(c) Mercury content of copper concentrates.

EXPORTS OF MERCURY, ETC.

(Domestic Produce)

(Lb.)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Mercury	1,818	45,778	6,168	14,133	18,571	107,095	168,583
Chloride	(a)	122,792	9,223	36,808	20,244	51,866	94,310
Union of South Africa—							
Mercury	82,350	25,575	—	—	—	—	—
Canada—							
Mercury	(a)	57,005	17,084	175	8	8,100	58,235
Hong Kong (re-exports)—							
Mercury	(a)	9,576	33,333	7,144	56,392	10,032	16,796
Malaya (b)—							
Mercury	(a)	46,701	6,171	271	2,145	169	3,381
Sarawak—							
Mercury	(a)	(c) 230	—	—	(a)	(a)	(a)
Australia—							
Mercury	1	125	5,923	8,133	988	447	3,247
New Zealand—							
Mercury	150	—	—	—	—	—	—
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Mercury	}	—	(a)	{	6,614	4,409	4,409
Sulphide of mercury ..					72,753	15,432	15,432
Other mercury salts ..					11,022	—	—
Czechoslovakia—							
Mercury	(a)	—	—	(d) 45,636	(a)	(a)	(a)
France—							
Mercury	221	3,547	8,818	(a)	(a)	(a)	(a)
Mercury salts	—	—	3,086	(a)	(a)	(a)	(a)
Germany (Federal)—							
Cinnabar	}	(a)	(a)	—	5,291	661	(e) 2,425
Mercury and amalgam ..					1,543	39,463	3,527
Mercury salts					14,110	71,641	(e) 37,104
Italy—							
Mercury	—	1,984,160	1,274,051	2,406,125	642,868	6,262,891	2,090,423
Mercury salts	(a)	(a)	(a)	(a)	(a)	112,656	134,702
Spain—							
Mercury	2,634,590	867,739	1,311,089	5,696,744	2,101,005	7,562,736	3,689,281
Mercury salts	51	190	55	20,128	5,787	35,821	32,159
Sweden—							
Mercury	1,455	465	300	476	549	17,637	37,479
Switzerland—							
Mercury	2	1,195	163	196	326	192	421
Yugoslavia—							
Mercury	(a)	(a)	(f)	(f)	(f)	1,054,250	990,537
Algeria—							
Mercury	38,360	34,392	30,644	9,259	—	—	—
Mexico—							
Mercury	1,172,766	844,683	945,413	363,139	493,297	376,161	627,347
United States—							
Mercury	78,877	68,932	67,148	59,713	43,860	33,977	18,311
Chloride	57,005	}	(a)	(a)	(a)	(a)	(a)
Fulminate	506						
Oxide	26,950						
Other salts	35,746						

(a) Information not available.

(b) Including re-exports.

(c) April 15 to December 31 only.

(d) January to October.

(e) January to September only.

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

EXPORTS OF MERCURY, ETC. (Cont.)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Bolivia—							
Mercury	214	—	—	99	—	—	1,407
Chile—							
Mercury	74,565	68,423	26,956	4,484	(a)	(a)	(a)
Peru—							
Mercury	15,803	381	—	(a)	(a)	(a)	(a)
Japan—							
Mercury	11,231	—	187,393	782,641	(a)	(a)	(a)
Turkey—							
Mercury	3,269	2,696	—	—	—	—	—

(a) Information not available.

IMPORTS OF MERCURY, ETC.

(Less Re-exports)

(Lb.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Mercury	105,061	128,642	1,777,583	1,784,538	1,133,854	3,031,024	960,397
Anglo-Egyptian Sudan—							
Mercury	—	—	137	150	207	223	(a)
Southern Rhodesia—							
Mercury	52	2,525	24,278	14,799	14,477	20,051	11,088
South West Africa—							
Mercury	(a)	57	19	56	179	(a)	(a)
Tanganyika—							
Mercury	516	605	438	3,100	(a)	(a)	(a)
Union of South Africa—							
Mercury	1,977	19,650	27,986	58,960	51,400	67,151	(a)
Canada (b)—							
Mercury	27,101	152,719	412,649	803,878	277,927	614,005	308,088
Mercury salts	(£2,415)	(£696)	(£2,161)	(£1,072)	(£222)	(£1,436)	(£4,220)
Newfoundland (c)—							
Mercury	522	64	132	198	(c)	(c)	(c)
British Guiana—							
Mercury	75	1,060	1,939	632	650	936	1,259
Burma—							
Mercury	(a)	(d) 560	(a)	(a)	(a)	(a)	(a)
Hong Kong (total imports)—							
Mercury	(a)	56,700	120,000	396,644	133,456	91,960	4,636
India—							
Mercury	186,904	412,678	347,770	686,126	1,080,160	2,140,362	719,582
Malaya (total imports)—							
Mercury	(a)	306	512	1,447	845	4,061	849
Australia—							
Mercury	32,554	7,433	25,009	93,266	44,726	61,855	99,825
Mercury salts	28,414	36,648	8,830	38,655	86,482	191,589	105,522
New Zealand—							
Mercury	—	159	1,257	2,495	943	2,529	2,519
FOREIGN COUNTRIES							
Austria—							
Mercury	(a)	(a)	17,196	12,346	22,928	40,124	41,447
Mercury salts	(a)	(a)	2,646	441	—	—	—
Belgium-Luxemburg E.U.—							
Mercury	} (a)	(a)	(a)	127,868 24,251 39,666	94,799	218,258	61,729
Sulphide of mercury					2,205	4,409	2,205
Other mercury salts					4,409	4,409	—
Bulgaria—							
Mercury	7,402	4,852	(a)	(a)	(a)	(a)	(a)
Czechoslovakia—							
Mercury	(a)	661	224,651	(e) 53,352	(a)	(a)	(a)
Denmark—							
Mercury	4,409	13,448	14,771	26,235	20,503	54,013	11,905
Finland (total imports)—							
Mercury and amalgam	40	4,319	55,971	9,345	66,893	32,309	23,473
France—							
Mercury	369,936	515,882	560,195	(a)	(a)	(a)	(a)
Mercury salts	2	50,927	14,110	(a)	(a)	(a)	(a)
Germany (Federal)—							
Cinnabar	} (a)	(a)	(a)	432,955	441	—	—
Mercury and amalgam					254,193	720,912	438,940
Mercury salts					—	110	—
Greece—							
Mercury	—	—	13	3,799	6,837	514	86
Netherlands—							
Mercury and amalgam	(a)	123,459	70,548	112,436	125,663	121,254	81,571
Norway—							
Mercury	3,598	177,148	43,600	4,445	35,364	69,648	(a)

(a) Information not available.

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

(d) February to September only.

(b) Including Newfoundland from April 1, 1949.

(e) January to October only.

IMPORTS OF MERCURY, ETC. (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Portugal—							
Mercury	26,336	36,612	29,008	6,146	14,399	3,287	55,709
Mercury salts	3,199	6,113	9,509	9,121	8,142	2,216	(a)
Sweden—							
Mercury	131,407	525,690	227,901	279,667	57,818	249,122	(a)
Switzerland—							
Mercury	10,818	192,338	64,653	101,832	55,065	152,824	117,149
Algeria—							
Mercury	—	—	—	3,968	—	—	1,984
Mercury salts	22	44	—	—	—	—	—
Angola—							
Mercury	18	108	54	(a)	(a)	(a)	(a)
Egypt—							
Mercury	174	1,023	2,873	558	1,537	4,901	(a)
Morocco (French)—							
Mercury	—	331	386	152	(a)	(a)	(a)
Mozambique—							
Mercury	11	236	368	152	79	179	218
Tunis—							
Mercury	—	—	220	441	(a)	(a)	(a)
Costa Rica—							
Mercury	677	3,589	1,801	(a)	(a)	(a)	(a)
Cuba (total imports)—							
Mercury	4,191	(a)	(a)	18,140	3,710	(a)	(a)
Mexico—							
Mercury	1,186	988	(a)	(a)	(a)	(a)	(a)
Mercury salts	917	3,971	(a)	(a)	(a)	(a)	(a)
United States—							
Mercury	5,086,247	1,055,956	984,814	2,428,248	7,838,705	4,262,056	3,637,338
Mercury salts	336	26	(a)	—	44,519	26,023	82,908
Argentina—							
Mercury	22,555	60,528	(a)	(a)	(a)	(a)	(a)
Mercury salts	7,875	8,389	(a)	(a)	(a)	(a)	(a)
Brazil (total imports)—							
Mercury	30,053	76,478	23,459	102,268	45,226	(a)	(a)
Chile—							
Mercury	205	—	659	417	(a)	(a)	(a)
Mercury salts	2,284	2,901	(a)	(a)	(a)	(a)	(a)
Colombia—							
Mercury	(a)	9,083	(a)	(a)	(a)	(a)	(a)
Mercury salts	(a)	3,545	(a)	(a)	(a)	(a)	(a)
Dutch Guiana—							
Mercury	26	11	165	—	(a)	(a)	(a)
Peru—							
Mercury	165	183	(a)	692	(a)	(a)	(a)
Mercury salts	430	1,493	(a)	271	(a)	(a)	(a)
Uruguay—							
Mercury	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Venezuela—							
Mercury	9,533	14,279	134,890	14,081	(a)	(a)	(a)
Mercury salts	(a)	9,623	9,228	6,144	(a)	(a)	(a)
China—							
Vermilion	(a)	(b) 15,584	(b) 83,121	(a)	(a)	(a)	(a)
Iran (total imports) (c)—							
Mercury	(a)	16,248	2,928	25,366	37	(a)	(a)
Japan—							
Mercury	225	(a)	(a)	(a)	(a)	(a)	(a)
Philippine Republic—							
Mercury	547	12,809	(a)	(a)	(a)	(a)	(a)
Syria and Lebanon—							
Mercury	44	3,505	(a)	(a)	(a)	(a)	(a)
Turkey—							
Mercury	353	509	692	509	353	692	187
Mercury salts	1,852	3,128	10,055	1,404	604	1,274	3,325

(a) Information not available.

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

(b) Including artificial vermilion.

MICA
PRODUCTION OF MICA
(Long tons)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Kenya	—	—	—	—	4	1	1
Northern Rhodesia—							
Sheet	5	(5 cwt.)	—	—	3	2	5
Waste	2	(6 cwt.)	—	—	—	—	—
Southern Rhodesia—							
Block and sheet	193	330	285	270	85	402	93
Waste			6	17	213		250
South West Africa (waste)	—	—	—	—	—	58	112
Tanganyika—							
Block and sheet	107	70	88	66	55	58	69
Ground	—	—	5	3	36	59	—
Waste	150	265	—	—	—	25	—
Uganda	7	—	—	1	2	(7 cwt.)	(3 cwt.)
Union of South Africa—							
Sheet	1	1	1	1	1	13	5
Waste	1,112	1,756	1,977	1,339	1,048	1,336	1,746
Canada (sales)—							
Rough mine-run or rifted	5	309	110	10	4	(20 lbs.)	1,307
Trimmed	30	14	11	33	21	81	
Splittings	2	6	—	8	4	1	
Sold for mechanical split-							
tings	147	114	130	142	4	47	
Ground	783	1,186	1,865	1,673	828	989	
Scrap	2,178	2,265	1,598	1,659	678	614	
Ungraded	—	—	—	3	19	—	
By varieties—							
Phlogopite	2,542	3,172	2,907	3,304	1,280	1,445	(a)
Muscovite	603	722	807	224	277	287	(a)
Ceylon (exports)	1	(8 cwt.)	(4 cwt.)	—	—	—	(4 cwt.)
India (exports)—							
Blocks	1,206	1,350	710	679	417	748	1,590
Splittings	3,253	6,566	7,305	10,196	9,017	11,646	13,237
Scrap	323	2,586	1,565	7,273	4,098	3,279	8,546
Australia (b)—							
Crude and scrap	54	36	10	19	(34 lb.)	23	37
Cut	31	23	41	40	29	30	23
New Zealand	8 cwt.)	—	—	—	—	—	—
FOREIGN COUNTRIES							
Austria	64	38	77	89	249	362	302
France	—	—	—	—	—	—	(a)
Italy	41	13	17	23	(a)	(a)	(a)
Norway (incl. waste)	133	64	183	151	326	544	969
Portugal	—	—	3	—	—	—	—
Spain	18	4	12	11	9	12	11
Sweden—							
Block	108	—	111	14	11	2	
Ground	16	68	41	49	49	162	
Angola—							
Sheet	15	6	4	10	12	15	15
Waste and splittings		25	84	96	43	151	119
Eritrea	(a)	(a)	(a)	(13 cwt.)	(8 cwt.)	1	
Madagascar—							
Phlogopite (block)	602	459	444	499	944	789	943
Muscovite	8	2	—	—	—	—	—
Morocco (French)	(a)	(a)	(a)	142	53	81	36
Mozambique	2	2	1	—	101	41	11
Mexico (exports)	402	80	268	27	(a)	(a)	(a)

(a) Information not available.

(b) The following amounts of Damourite were also produced (long tons): 1945—94; 1946—203; 1947—314; 1948—362; 1949—692; 1950—696; 1951—505.

PRODUCTION OF MICA (Cont.)

Producing Country	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
United States (sales)—							
Sheet (uncut)	580	482	186	121	229	258	266
Scrap (b)	36,661	47,859	44,462	46,569	29,336	61,929	64,171
Argentina—							
Sheet	698	} 423	{ (a)	(a)	(a)	(a)	(a)
Waste	10			(a)	(a)	(a)	(a)	(a)
Bolivia (exports)	—	—	—	—	—	—	—
Brazil	1,000	1,613	1,207	1,868	1,341	1,784	(a)
Peru	483	204	2	(a)	(a)	(a)	(a)
Uruguay	1	1	14	2	1	1	1
Korea	93	(a)	(a)	(a)	(a)	(a)	(a)
TOTAL * ..	50,500	68,200	62,800	73,100	49,300	85,500	94,000

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

(a) Information not available.

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

EXPORTS OF MICA

(Domestic Produce)

(Long tons)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Splittings, ground and waste	50	128	275	294	487	479	726
Southern Rhodesia—							
Block and sheet waste	207	326	284	312	443	513	100
Waste .. .. .								337
Tanganyika—							
Block and sheet	96	72	70	71	57	50	70
Ground and waste	150	265	5	3	36	84	—
Uganda	7	—	—	2	2	—	—
Union of South Africa (b)	1,047	2,675	2,238	1,287	892	1,050	782
Canada—							
Rough cobbled and thumb trimmed	388	313	213	162	79	104	302
Splittings	2	4	2	5	13	—	—
Ground	157	201	80	947	192	250	346
Scrap and waste	2,167	1,741	1,143	892	303	528	438
Ceylon	1	(8 cwt.)	(4 cwt.)	—	—	—	(4 cwt.)
India—							
Blocks	1,206	1,350	710	679	417	764	1,617
Splittings	3,253	6,566	7,305	10,196	9,023	11,978	13,725
Scrap	323	2,586	1,565	7,273	4,098	3,679	9,203
Australia—							
Slabs	(£A1,187)	(£A6,801)	(£A16,686)	(£A13,487)	2	1	5
FOREIGN COUNTRIES							
Austria	(a)	(a)	1	93	431	78	315
Belgium-Luxemburg E.U.—							
Sheets and plates	(a)	(a)	(a)	20	43	15	21
Bulgaria	—	—	(a)	(a)	(a)	(a)	(a)
France—							
Unmanufactured	—	37	5	42	76	83	113
Sheet, plate and manufactures	2	6	11	30	11	27	39
Germany (Federal)—							
Unmanufactured	(a)	(a)	(a)	—	—	—	1
Netherlands	(a)	1	2	7	6	6	25
Norway—							
Sheet	171	220	68	89	111	562	538
Scrap	384	67	98	149	20	30	(a)
Portugal	5	—	—	—	—	—	—
Sweden	(a)	(a)	(a)	(a)	(a)	1	10
Angola (b)	10	—	107	(a)	(a)	23	—
Madagascar—							
Phlogopite, etc.	244	703	538	700	794	815	672
Morocco (French)	—	—	—	—	—	139	113
Mozambique	1	1	—	2	1	—	1
Mexico	402	80	268	27	13	173	(a)
United States—							
Unmanufactured	127	132	148	151	51	150	178
Ground and manufactured	748	1,245	1,185	1,101	938	1,231	1,514
Argentina	313	350	(a)	(a)	(a)	(a)	(a)
Brazil	969	1,130	844	971	550	811	(a)
Peru.. .. .	483	167	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

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

IMPORTS OF MICA

(Less Re-exports)

(Long tons)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Slabs	1,274	1,073	1,091	614	94	(b) 407	292
Splittings	225	2,200	3,308	1,649	1,704	1,208	3,062
Ground and waste	741	993	629	3,300	4,225	2,031	4,138
Tanganyika	1	—	1	3	—	—	—
Union of South Africa—							
Mica and micanite sheets	7	12	10	15	11	16	(a)
Canada—							
Mica and manufactures	(£53,168)	(£65,898)	(£139,818)	(£101,043)	(£150,923)	(£249,285)	(£326,717)
India—							
Block	554	—	11	110	62	130	72
Splittings	—	3	30	29	19	125	26
Australia—							
Slabs, waste and scrap	(a)	(c) 50	(c) 81	(c) 51	115	120	186
Sheet and splittings	(a)	(c) 13	(c) 29	(c) 92	29	48	38
Ground	(a)	(c) 8	(c) 7	(c) 7	10	11	6
New Zealand (£N.Z.)	(a)	(a)	(a)	(a)	(£7,072)	(£12,834)	(£27,810)
FOREIGN COUNTRIES							
Austria—							
Crude	(a)	(a)	(a)	(a)	2	6	23
Sheet	(a)	(a)	7	15	31	18	29
Belgium-Luxemburg E.U.—							
Crude sheet and crude plate	(a)	(a)	(a)	453	204	399	649
Cut sheet and cut plate	(a)	(a)	(a)	62	34	—	—
Czechoslovakia	(a)	—	3	(d) 30	(a)	(a)	(a)
Denmark—							
Block	2	22	10	21	23	87	550
Powder	3	21	18	25	302	842	367
France—							
Unmanufactured	6	104	386	652	695	1,545	1,634
Sheet, plate and manufactures	47	282	284	16	6	7	13
Germany (Federal)—							
Unmanufactured	(a)	(a)	(a)	—	443	951	1,367
Italy—							
Unmanufactured	}	(a)	207	432	852	1,147	3,410
Sheet							
Netherlands—							
Unmanufactured	}	54	144	263	80	251	269
Sheet, plate and manufactures							
Portugal	1	5	7	5	11	12	—
Sweden	(a)	(a)	(a)	(a)	188	627	(a)
Egypt	—	(b) 6	—	(b) 2	—	—	(a)
Mexico	10	86	102	126	(a)	(a)	(a)
United States—							
Unmanufactured	5,088	7,553	5,345	7,624	5,591	5,419	6,821
Cut, splittings and manufactured	3,272	4,924	5,089	8,355	8,689	11,113	10,045
Japan	(a)	—	48	130	224	81	415
Turkey	1	2	1	1	6	1	1

(a) Information not available.

(b) Excess of re-exports.

(c) Year ended June 30 of that stated.

(d) January to October only.

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

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Canada (Shipments) ..	7,495	6,043	6,784	2,721	—	925	3,125
Hong Kong	—	—	—	—	—	—	2
Australia	25	150	70	60	106	88	27
FOREIGN COUNTRIES							
Austria	(a)	(b) 145	(b) 20	—	340	625	755
Finland	3,620	4,110	2,300	—	—	—	—
Norway	2,486	313	3,216	2,641	2,316	2,185	4,094
Sweden	59	—	—	20	98	118	(a)
Morocco (French)..	—	1,575	1,181	—	—	—	—
Mexico	14,368	26,840	4,467	—	—	—	—
United States ..	458,363	271,102	402,485	397,411	335,268	423,809	578,196
Chile	27,595	18,367	13,172	17,454	18,346	31,652	56,572
Peru.. ..	952	137	103	68	82	48	(a)
Japan	3,540	1,480	550	32	—	787	2,853
Korea (b)	1,800	(a)	(a)	(a)	(a)	(a)	(a)
TOTAL* ..	520,300	330,300	434,350	420,410	356,560	460,240	645,800

*Excluding molybdenum ore 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	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom— Ferro-molybdenum ..	(a)	(a)	2,680	1,400	2,620	147	78
Australia— Ore and concentrates ..	—	(b) 7 131	41 (b) 820	—	70	—	20
FOREIGN COUNTRIES							
Finland— Ore	1,228	4,099	1,375	—	643	—	—
France— Molybdic acid and molybdates	—	2	—	(a)	(a)	(a)	(a)
Norway— Ore	5,085	198	3,420	2,600	1,742	1	6,424
Sweden— Ore	—	—	—	39	—	—	—
Ferro-molybdenum ..	39	4,378	4,350	1,965	4,199	4,140	20
Morocco (French)— Ore	—	—	1,476	(a)	(a)	(a)	(a)
Mexico— Ore and concentrates (MoS ₂ content) ..	15,222	26,780	4,351	—	(a)	(a)	(a)
United States— Ore and concentrates ..	47,789	(a)	(a)	(a)	(a)	(a)	(a)
MoS ₂ content	42,628	8,413	44,516	61,539	79,222	92,844	55,536
Metal, alloys and scrap	802	1,969	1,188	503	769	1,304	974
Ferro-molybdenum ..	15,783	6,620	8,509	10,620	8,520	10,520	13,249
Chile— Ore	12,234	45,742	14,874	23,125	5,905	41,336	80,700
Peru— Ore (MoS ₂ content) ..	952	99	917	79	—	130	(a)
Korea— Ore (MoS ₂ content) (c) ..	787	(a)	(a)	(a)	(a)	(a)	(a)
Manchuria— Ore (MoS ₂ content) (c) ..	984	(a)	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

(b) Year ended June 30, 1946.

(c) Imports into Japan from the country indicated.

IMPORTS OF MOLYBDENUM ORE, ETC.

(Less Re-exports)

(Cwt.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Ore	21,255	25,824	46,190	45,754	52,622	61,716	62,458
Metal	—	—	1	2	6	8	32
Canada—							
Oxide (<i>Mo</i> content)	1,820	1,010	1,610	1,790	2,180	(a)	(a)
Ferro-molybdenum (<i>Mo</i> content)				1,200	960	(a)	(a)
FOREIGN COUNTRIES							
Austria—							
Molybdic acid	(a)	(a)	(a)	(a)	22	356	317
Ferro-molybdenum	(a)	(a)	(a)	(a)	(a)	3,287	2,517
Finland—							
Ferro-molybdenum	—	—	—	203	245	202	(a)
France—							
Metal and alloys	(a)	(a)	(a)	31	32	—	51
Molybdic acid and molybdates	—	—	8	(a)	(a)	(a)	(a)
Italy—							
Ferro-molybdenum	—	15,058	535	1,214	514	1,708	1,555
Sweden—							
Ore	4,527	14,192	12,283	8,248	20,452	20,412	16,141
Ferro-molybdenum	797	1,342	5,813	818	3,706	2,047	(a)
United States—							
Ore (<i>MoS₂</i> content)	9,900	4,118	—	—	—	—	63
Japan—							
Ore (<i>MoS₂</i> content)	1,870	(a)	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

MONAZITE
PRODUCTION OF MONAZITE
(Long tons)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
India	1,567	60	(a)	(a)	(a)	(a)	(a)
Malaya	(b) 54	—	—	—	—	—	—
Australia (c)	—	—	—	167	186	(d) 156	293
FOREIGN COUNTRIES							
Belgian Congo	—	—	—	—	—	—	36
Egypt	(3 cwt.)	(3 cwt.)	—	6	3	71	1
Brazil (exports)	1,014	1,230	1,723	1,756	2,278	(a)	(a)

Monazite is also produced in the United States.

(a) Information not available.

(b) Average annual production during Japanese occupation.

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

(d) Revised.

EXPORTS OF MONAZITE, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
India— Monazite sand	200	1,947	703	(a)	50	(a)	114
FOREIGN COUNTRIES							
France— Thorium nitrate and other rare-earth salts	—	(2 cwt.)	11	—	1	—	—
United States— Thorium compounds	(b) 3	(a)	(a)	(a)	(a)	(a)	(a)
Brazil— Monazite sand	1,014	1,230	1,723	1,756	2,278	(a)	(a)

(a) Information not available.

(b) January to June only.

IMPORTS OF MONAZITE, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Canada— Thorium and cerium salts	(£2,788)	(£7,800)	(£5,223)	(£17,103)	(£14,586)	(£11,171)	(£23,038)
FOREIGN COUNTRIES							
France— Thorium nitrate and other rare-earth salts	—	34	35	14	120	305	448
United States— Monazite sand and thorite	490	—	(a)	(a)	148	(a)	(a)

(a) Information not available.

NICKEL
PRODUCTION OF NICKEL ORE

(In terms of metal)

(Long tons)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Union o. South Africa (b)	495	491	519	451	559	829	1,120
Canada	109,433	85,770	105,912	117,625	114,901	110,410	123,128
TOTAL	109,900	86,300	106,400	118,076	115,459	111,239	124,248
FOREIGN COUNTRIES							
Finland (i)	364	107	—	—	—	—	82
Italy	12	—	—	—	—	—	—
Norway	508	—	—	—	—	—	—
Sweden	384	—	—	—	—	—	—
U.S.S.R. (c)	13,200	20,000	25,000	25,000	25,000	25,000	25,000
Cuba (h)	17,586	16,324	3,126	—	—	—	(a) 675
United States (e)	1,031	314	577	788	705	815	—
Indonesia	(f) 300	—	—	—	—	—	—
Japan (d)	642	—	—	—	—	—	—
New Caledonia (g)	4,010	3,300	3,300	4,805	3,327	5,542	8,740
TOTAL*	38,000	40,000	32,000	31,000	29,000	31,300	34,500
WORLD'S TOTAL* ..	148,000	126,000	138,000	149,000	144,500	142,500	158,700

* Nickel ores are also produced in 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). 1945 includes nickel content of ores produced.

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

	Long tons		Long tons
1945	5,788	1949	5,071
1946	7,364	1950	7,853
1947	8,519	1951	7,680
1948	7,902		

(f) Average annual production during the Japanese occupation.

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

	Long tons		Long tons
1945	2,865	1949	3,764
1946	2,294	1950	4,842
1947	1,137	1951	4,358
1948	2,427		

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

	Long tons		Long tons
1945	10,728	1949	—
1946	11,068	1950	—
1947	1,982	1951	(a)
1948	—		

(i) Nickel content of concentrates.

EXPORTS OF NICKEL

(Domestic Produce)

(Long tons)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Cubes, rondels, etc. ..	4,318	4,354	5,393	6,244	10,700	8,268	7,124
Plates, sheets, etc. ..	10	214	207	247	169	189	101
Ingots, sheets, wire, etc. (alloys)	322	1,650	1,525	1,864	2,336	2,530	1,729
Scrap and alloyed	—	34	1,494	1,600	2,600	7,431	4,513
Nickel oxide	24	111	48	19	112	176	180
Union of South Africa—							
Matte (<i>Ni content</i>) ..	(a)	313	256	405	607	575	1,112
Canada—							
Matte or speiss (<i>Ni content</i>)	25,264	27,344	35,506	45,358	50,806	47,402	51,680
Nickel, fine	69,793	72,140	63,175	63,613	61,686	59,727	64,605
Nickel oxide (<i>Ni content</i>)	1,570	461	5,834	8,743	1,028	1,489	843
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Ingots, scrap, etc. ..	1	25	105	35 24	9 7	47 10	57 3
Sheets, wire, etc. ..							
Czechoslovakia—							
Crude and scrap	(a)	18 6	60 —	— —	(a) (a)	(a) (a)	(a) (a)
Plates and sheets							
Denmark—							
Crude and scrap	2	—	2	21	19	102	35
Finland—							
Ore	—	—	—	—	—	920	—
France—							
Ore	(a)	(a)	(a)	20	20	—	27
Matte and speiss	3	—	11	10	—	625	2
Ingots	—	1	1	3	8	399	435
do. (alloys)	2	4	—	—	—	434	289
Sheets and wire	—	—	1	6	4	10	18
do. (alloys)	—	40	63	88	70	155	36
Germany (Federal)—							
Crude, scrap and coin ..	(a)	(a)	(a)	—	—	827	29
Bars, sheets, wire, etc. ..	(a)	(a)	(a)	21	11	264	178
Italy—							
Ingots	—	—	—	98	—	—	1
Sheets, tubes, wire and alloys	—	—	388	723	867	37	16
Netherlands—							
Crude and scrap	(a)	13	93	141	258	294	78
Norway—							
Crude	1,172	4,459	7,403	7,193	7,421	9,645	9,575

(a) Information not available.

EXPORTS OF NICKEL (Cont.)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Sweden—							
Crude	—	35	42	—	—	—	—
Switzerland—							
Crude, scrap and alloys	—	—	268	94	92	696	333
Bars, sheets, etc., and alloys	1	146	423	336	402	547	136
Cuba—							
Ore	15,846	(a)	590	1	1	(a)	(a)
United States—							
Bars, rods, sheets and alloys	721	841	1,211	1,208	719	302	172
Scrap and alloys	2,043	4,997	7,522	5,202	2,486	2,534	3,565
Nickel-silver bars, etc. ..	119	910	1,395	563	457	222	198
New Caledonia—							
Ore	—	—	1,181	—	—	—	6,889
Matte, etc.	3,828	2,977	1,476	3,612	5,793	6,191	3,556

(a) Information not available.

IMPORTS OF NICKEL

(Less Re-exports)

(Long tons)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Ore, concentrates and matte	19,373	12,737	21,500	26,403	32,771	25,221	34,260
Ingots, cubes, rondels, etc. (b) 67	67	4,742	7,655	4,685	2,292	2,480	3,225
Plates, sheets, etc. .. .	8	162	439	414	270	12	47
Ingots, sheets, etc. (alloys) .. .	1,331	3,206	5,222	4,296	1,243	1,111	2,288
Scrap and alloyed .. .	28	480	30	276	297	820	221
Nickel oxide .. .	85	306	389	221	456	539	491
Canada—							
Ingots or blocks and alloyed .. .	11	5	82	37	12	19	43
Bars, rods, sheets, etc. .. .	606	1,106	966	1,087	1,190	1,071	990
do. (alloyed) .. .	75	319	181	93	90	104	84
Hong Kong (total imports)—							
Nickel .. .	(a)	9	35	3	1	2	—
Australia—							
Pigs and ingots .. .	79	147	796	285	1,221	407	302
Bars and rods .. .		17	23	32	59	57	42
Scrap .. .	(a)	—	(e) 200	(e) 143	15	6	161
Irish Republic—							
Nickel, alloys and manufactures .. .	6	21	20	8	10	6	5
FOREIGN COUNTRIES							
Austria—							
Crude .. .	(a)	(a)	186	199	462	867	663
Anodes .. .			7	2	26	32	11
Ingots, sheets, etc. .. .			8	13	31	12	16
Scrap .. .			—	10	—	—	—
Belgium-Luxemburg E.U.—							
Ingots, etc. .. .	180	926	1,033	4	21	344	357
Scrap .. .				358	291	13	6
Sheets, wire, etc. .. .				477	200	147	166
Czechoslovakia—							
Crude and scrap .. .	(a)	188	1,724	(c) 1,639	(a)	(a)	(a)
Plates and sheets .. .		36	34	(c) 29	(a)	(a)	(a)
Denmark—							
Crude and scrap .. .	31	87	65	101	55	89	58
Finland (total imports)—							
Crude and scrap .. .	1	4	39	100	24	144	210
France—							
Matte and speiss .. .	—	2,179	785	2,633	5,734	7,142	5,448
Ingots .. .	1,825	4,321	4,039	1,447	3,470	190	86
do. (alloys) .. .	1	121	102	217	79	108	298
Sheets and wire .. .	1	153	225	149	107	223	94
do. (alloys) .. .	4	94	157	214	215	219	192
Nickel sulphate and oxide .. .	85	1,795	1,180	(a)	(a)	(d) 434	(d) 355
Germany (Federal)—							
Ore .. .	(a)	(a)	(a)	—	—	581	29,587
Crude, scrap and coin .. .				1,774	2,089	5,869	4,080
Bars, sheets, wire, etc. .. .				8	26	25	21
Italy—							
Ingots, scrap and alloyed .. .	—	1,270	1,298	675	901	1,493	610
Sheets, tubes, wire, etc., and alloyed .. .	—	59	260	226	366	263	96
Netherlands—							
Crude and scrap .. .	(a)	431	576	224	245	487	323
Norway—							
Matte (copper-nickel) .. .	1,882	11,138	14,464	16,771	19,006	16,362	(a)
Crude, bars, rods, etc. .. .	7	22	6	2	7	51	(a)

(a) Information not available.

(c) January to October only.

(e) Year ended June 30 of that stated.

(b) Excess of re-exports.

(d) Sulphate only.

IMPORTS OF NICKEL (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Portugal	8	55	45	12	38	21	6
Spain—							
Ingots, bars, etc. ..	20	343	274	365	144	428	230
Sweden—							
Crude	1,884	2,955	3,167	1,929	2,718	3,342	2,732
Switzerland—							
Crude, scrap, and alloyed	260	931	566	780	225	604	597
Bars, sheets, etc., and							
alloyed.. .. .	10	212	354	432	225	192	320
Algeria—							
Sheets, wire and alloys	2	2	1	2	2	2	—
Egypt (total imports)—							
Crude, bars, sheets, etc.	16	36	12	22	13	32	(a)
Mexico—							
Ingots	123	40	103	32	(a)	(a)	(a)
United States—							
Ore and matte	22,356	17,005	13,068	12,370	9,936	9,942	11,454
Crude, tubes, etc., and							
alloys	68,458	63,538	52,385	63,899	65,869	62,316	69,209
Nickel oxide	17,042	12,965	13,459	19,209	10,930	14,559	10,702
Brazil (total imports)—							
Cubes and sheets ..	204	204	212	56	132	(a)	(a)
Chile—							
Ingots, bars and plates	84	75	73	95	(a)	(a)	(a)
Uruguay—							
Ingots	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Iran (total imports) (b)—							
Ingots, bars, etc. ..	(a)	67	160	—	(a)	(a)	(a)
Japan—							
Ore	(a)	(a)	(a)	(a)	(a)	(a)	828
Matte	435	—	—	—	(a)	(a)	(a)
Metal	(a)	—	—	—	(a)	(a)	326
Turkey—							
Ingots, bars, and sheets ..	11	7	8	8	—	11	—

(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	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
India— Nitrate of potash ..	(b) 7,467	(b) 3,457	4,114	2,972	6,354	5,501	6,384
FOREIGN COUNTRIES							
Spain— Nitrate of potash ..	420	500	500	400	(a)	(a)	(a)
Chile— Nitrate of soda	1,361,654	1,622,915	1,605,460	1,758,518	1,741,957	1,588,653	1,657,804

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	1945	1946	1947	1948	1949	1950	1951	
BRITISH COUNTRIES								
United Kingdom (b)—								
Total ammonia products basis 25% NH ₃ ..	1,375,600	1,506,500	1,408,600	1,648,800	1,691,100	1,803,400	1,906,300	
Actual ammonium sulphate	760,400	833,700	796,700	901,000	924,500	960,700	968,100	
Canada—								
Ammonium sulphate ..	197,767	176,728	175,737	192,062	201,741	188,870	(a)	
Ammonium nitrate (c) ..	183,915	236,721	(a)	(a)	(a)	(a)	(a)	
Ammonium phosphate (c)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	
India—								
Ammonium sulphate ..	(d) 19,591	(d) 19,108	(a)	35,210	45,935	48,845	46,747	
Australia—								
Ammonium sulphate (c)	22,095	21,823	29,266	39,489	53,247	28,804	57,391	
FOREIGN COUNTRIES								
Austria—								
Lime ammonium nitrate	(a)	31,321	107,298	261,909	283,605	358,176	429,122	
Belgium—								
N content—								
Synthetic ammonia etc.	(a)	{	108,739	122,713	153,495	167,776	154,867	188,639
Ammonium sulphate ..			9,096	10,610	12,159	11,486	10,767	15,557
Cyanamide			5,355	6,786	5,333	(a)	(a)	(a)
Mixed fertilizers ..			2,835	3,785	2,181	2,531	2,874	3,618
Technical products ..			4,825	10,133	9,260	7,607	6,442	13,040
Czechoslovakia—								
Nitrogen fertilizers ..	(a)	(a)	130,300	158,000	(a)	(a)	(a)	
Finland—								
Cyanamide	(a)	(a)	(a)	(a)	(a)	(a)	2,646	
France—								
Ammonium sulphate (c)	35,700	106,886	201,480	242,646	268,008	249,231	(a)	
Cyanamide (c)	9,600	13,800	19,400	18,000	16,480	24,133	(a)	
Nitrate of soda (c) ..	1,900	9,400	16,700	21,200	34,100	42,744	(a)	
Nitrate of lime (c) ..	63,000	113,400	172,300	179,000	175,470	195,768	(a)	
Nitrate of ammonia (c)	29,000	57,300	141,300	177,600	175,700	198,475	(a)	
"Ammonitrate" (c) ..	41,000	106,400	97,400	102,900	133,600	178,771	(a)	
Germany (Federal)—								
Chemical nitrogen (N content)—								
Fertilizer	(a)	183,000	187,200	250,233	360,691	433,241	473,843	
Technical use	(a)	(a)	(a)	(a)	49,148	67,689	84,108	
Italy—								
Ammonium sulphate ..	22,895	129,117	199,478	300,322	317,845	(a)	(a)	
Cyanamide	1,008	29,701	73,212	120,291	53,240			
Nitrate of soda	—	75	453	553	3,087			
Nitrate of lime	19,801	64,896	132,327	123,655	152,435			
Nitrate of ammonia ..	52,126	8,510	13,725	20,510	24,056			
Di-ammonium phosphate	—	72	1,137	6,729	12,278			
Netherlands—								
Ammonium sulphate (N content)	2,562	5,525	10,791	9,740	(a)	(a)	(a)	
Nitrogen fertilizers (N content)	(a)	(a)	66,818	81,773	87,172	153,783	207,301	

* Includes by-product ammonium sulphate which is separately recorded as far as available on pages 70-73.

(a) Information not available.

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

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

(d) Coke-ovens only.

ESTIMATED PRODUCTION OF MANUFACTURED NITROGEN COMPOUNDS (Cont.)

Producing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Norway—							
Cyanamide	12,931	28,308	45,183	37,475	39,193	47,788	33,675
Nitrate of ammonia	2,515	2,748	3,567	3,010	3,227	5,679	5,308
Nitrate of lime	469,276	521,424	465,626	428,361	563,632	760,087	868,765
Nitrate of soda	2,839	3,317	2,966	2,638	2,524	6,640	2,348
Lime ammonium nitrate	7,626	—	22,144	21,605	27,285	70,864	55,428
Poland—							
Ammonium sulphate	(a)	54,722	64,633	(c) 76,000	(a)	507,000	(a)
Cyanamide		97,621	118,905	155,742	166,455		
Nitrate of soda		1,740	1,315	(a)	(a)		
"Saletzrak"		36,474	69,149	127,739	128,018		
Nitrate of ammonia		6,032	9,143				
Other nitrogen fertilizers	(a)	(a)	(a)	50,222	86,799		
Portugal—							
Cyanamide	(a)	(a)	—	13	12	—	1
Ammonium chloride			—	510	1,079	979	500
Nitrate of ammonia			2,546	506	447	782	698
Nitrate of soda			1,988	786	265	169	123
Ammonium sulphate			1,485	744	144	219	469
Spain—							
Ammonium sulphate	16,428	15,779	15,921	12,921	10,039	13,520	20,165
Sweden—							
Compressed ammonia (100%)	255	2,574	6,168	7,403	9,428	(a)	(a)
Ammonium sulphate (b)	3,222	3,244	4,241	(d)	(d)	(a)	(a)
Ammonia (25%)	3,141	2,924	2,841	2,919	2,944	(a)	(a)
Synthetic nitrogen fertilizer (N content)	13,602	12,709	10,798	(e) 20,529	(e) 23,502	(e) 23,694	(e) 19,415
Switzerland—							
Nitrogen fertilizers (N content)	14,000	14,000	14,000	12,000	(a)	(a)	(a)
United States—							
Sulphate equivalent of ammonia produced (coke-ovens)	780,999	664,033	814,564	830,083	756,970	825,503	890,869
Actual ammonium sulphate (coke-ovens)	682,404	574,779	722,714	769,135	728,244	755,099	(a)
Actual ammonium sulphate (synthetic plants)	79,342	139,869	174,864	236,139	755,531	(a)	(a)
Anhydrous ammonia (synthetic plants)	489,871	647,801	994,643	973,023	1,155,408	(a)	(a)
Ammonium nitrate, original	376,328	647,231	970,419	882,448	909,559	(a)	(a)
Brazil (Voita Redonda)—							
Ammonium sulphate	(a)	(a)	(a)	4,209	(a)	(a)	(a)
Japan—							
Ammonium sulphate	239,162	459,451	709,597	931,209	1,212,893	1,545,165	1,647,963
Cyanamide	61,400	142,989	172,232	201,723	344,109	449,105	408,820
Ammonium nitrate	7,559	5,256	6,330	9,755	9,933	13,299	28,735
Ammonium chloride	791	(a)	(a)	2,575	4,134	7,759	13,641

(a) Information not available.

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

(c) Estimated.

(d) Included with nitrogen fertilizers.

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

EXPORTS OF NITROGEN COMPOUNDS

(Domestic Produce)

(Long tons)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951	
BRITISH COUNTRIES								
United Kingdom—								
Nitrate of potash ..	546	2,752	2,133	2,854	1,196	1,868	2,364	
Nitrate of soda ..	4,181	5,159	1,952	28	542	1,170	7,554	
Ammonium sulphate ..	252,327	277,925	246,375	221,044	262,142	277,086	225,537	
Ammonium chloride ..	13,303	15,938	9,267	13,431	13,023	14,725	15,283	
Ammonium nitrate ..	37,376	130,516	79,455	97,075	67,614	58,572	63,756	
Ammonium phosphate ..	74	675	329	766	578	520	720	
Liquid ammonia ..	2,339	10,918	7,344	850	937	932	1,117	
Anhydrous ammonia ..	308	767	1,395	1,432	1,697	3,457	3,337	
Canada—								
Ammonium sulphate ..	161,776	138,792	141,942	130,695	149,238	186,706	130,110	
Nitrogen fertilizers ..	(a)	(a)	(a)	(a)	(a)	338,586	266,271	
Hong Kong (re-exports)—								
Nitrate of potash ..	(a)	120	2,275	(a)	(a)	(a)	(a)	
Nitrate of soda ..	(a)	4	436	(a)	—	9	—	
Ammonium sulphate ..	(a)	1,631	8,746	(b) 32,992	(b) 28,668	(b) 117,170	(b) 100,751	
Ammonium chloride ..	(a)	459	615	675	385	853	1,567	
Anhydrous ammonia ..	(a)	—	10	(a)	(a)	(a)	(a)	
India—								
Nitrate of potash ..	153	1,135	816	36	15	64	227	
Malaya (including re-exports)—								
Nitrate of potash ..	(a)	—	5	1	1	5	14	
Other nitrogen fertilizers	(a)	16	72	200	601	1,092	1,315	
Australia—								
Nitrate of soda ..	2	189	5	—	—	57	3	
Ammonium sulphate ..	164	115	161	106	34	158	78	
FOREIGN COUNTRIES								
Austria—								
Lime ammonium nitrate	(a)	(a)	52,402	102,312	205,638	289,887	269,822	
Anhydrous ammonia ..	(a)	(a)	(a)	(a)	1,383	9,227	3,528	
Belgium-Luxemburg E.U.—								
Nitrate of potash ..	}	(a)	(a)	998	1,729	1,111	1,328	
Nitrate of soda ..				24,329	17,108	2,252	359	
Nitrate of lime ..				165	128	—	1,312	
Ammonium sulphate ..				262,133	232,658	385,680	460,907	
Ammonium chloride ..				18,832	8,363	1	2,347	
Ammonium nitrate ..				26,158	64,004	67,481	165,817	
Ammonium carbonate ..				125	34	51	23	
Ammonium phosphate ..				6,021	5,830	996	1,868	
Cyanamide ..	2,386	2,426	14,824	9,235				
Liquid ammonia ..	369	110	45	61				
Czechoslovakia—								
Nitrate of potash ..	}	(a)	}	(c) 4	(a)	(a)	(a)	
Nitrate of soda ..				30				(c) —
Ammonium sulphate ..				4				(c) —
Ammonium chloride ..				15				(c) 39
Ammonium nitrate ..				809				(c) 2,365
Cyanamide ..				25				(c) —
France—								
Nitrate of potash ..	46	1,144	4,310	3,165	4,157	4,551	3,705	
Nitrate of soda ..	150	332	2,104	565	169	684	1,015	
Nitrate of lime ..	—	41	2,368	2,387	1,892	3,352	6,311	
Ammonium sulphate (d)	1	13,168	58,066	36,101	39,808	106,955	95,650	
Ammonium chloride ..	(a)	(a)	(a)	555	646	1,772	1,553	
Ammonium nitrate ..	—	201	551	2,550	1,550	4,824	5,249	
Cyanamide ..	697	41	89	375	148	819	667	
Liquid ammonia ..	9	1	190	368	185	473	282	
Anhydrous ammonia ..	44	215	337	398	441	552	563	

(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	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Germany (Federal)—							
Nitrate of potash ..	a	(a)	(a)	—	88	946	1,784
Nitrate of soda ..				98	1,251	34,304	3,976
Nitrate of lime, etc. ..				355	400	114,946	99,632
Ammonium sulphate, etc. ..				—	654	87,318	219,480
Ammonium chloride ..				—	1,367	4,583	5,834
Ammonium nitrate, etc. ..				—	—	4,436	1,750
Cyanamide ..				—	—	5	4,893	(b) 4,226
Liquid ammonia ..	—	—	—	276	126	(b) 10,334	
Italy—							
Ammonium nitrate ..	(a)	(a)	91	7,200	482	586	10
Ammonium sulphate ..	(a)	(a)	1	26,149	41,208	16,890	31,674
Cyanamide ..	(a)	(a)	—	1,584	1,874	4,721	11,683
Netherlands—							
Nitrate of potash ..	a	213	7,888	1	5	17	25
Nitrate of soda ..				(a)	(a)	17	62
Nitrate of lime ..				31	7,879	7,075	39,302
Ammonium sulphate ..				—	34,593	103,619	205,218
Ammonium chloride ..				—	—	41	56
Ammonium nitrate ..				98	(a)	(a)	(a)
Lime ammonium nitrate ..				—	984	31	979	(a) 49,620
Other nitrogen fertilizers	—	—	215	441	(a) 82	46	
Norway—							
Nitrate of soda ..	2,328	2,273	3,962	2,474	1,807	5,895	4,531
Nitrate of lime ..	371,969	421,719	385,236	354,210	538,165	731,883	825,026
Ammonium nitrate ..	74	148	1,919	632	1,241	1,828	1,707
Cyanamide ..	4,667	32,082	42,615	30,446	40,138	42,282	14,005
Spain—							
Ammonium sulphate ..	56	2,778	2,216	166	447	709	874
Synthetic nitrates ..	—	2,026	577	748	1,385	158	713
Sweden—							
Nitrates of potash, soda and lime ..	3	7	52	59	6	34	17
Ammonium nitrate ..	3,272	2,961	—	—	115	297	129
Ammonium sulphate ..	311	123	54	—	—	—	—
Liquid ammonia ..	48	1	—	5	—	—	—
Switzerland—							
Nitrate of potash (crude)	41	271	298	14,172	1,256	15,449	8,686
Nitrates of potash and soda (purified) ..	488	256	654	364	2,154	—	10
Ammonium sulphate, etc. ..	(a)	(a)	(a)	4,733	2,715	3,217	2,274
United States—							
Nitrate of soda ..	10,919	14,500	17,786	15,268	3,316	31,448	38,990
Nitrate of potash, etc. ..	3,363	(a)	(a)	(a)	(a)	(a)	(a)
Ammonium nitrate (-) ..	8,790	6,225	5,968	4,542	435,220	87,058	5,628
Other nitrogen fertilizers (d)	74,792	104,746	137,149	560,368	20,991	36,931	56,936
Ammonium sulphate ..	18,528	22,550	79,108	187,934	589,940	737,156	119,732
Nitrogen phosphatic fertilizers ..	850	3,360	55,900	30,848	179,433	151,379	97,317
Anhydrous ammonia ..	3,850	5,499	5,412	3,042	3,508	9,109	5,274
Liquid ammonia ..	2,424	(a)	(a)	(a)	(a)	(a)	(a)
Chile—							
Nitrate of soda ..	1,588,302	1,386,113	1,590,978	1,618,919	1,523,256	1,637,818	1,520,133
Nitrate of potash ..	715	702	165,669	103,177	52,655	73,619	52,388
Japan—							
Ammonium sulphate ..	(a)	—	5,559	26,430	—	47,502	(e) 21,632

 (a) Information not available.
 recorded prior to 1949

(b) January to September only.

(c) Ammonium nitrate fertilizer not separately

recorded prior to 1949

(d) Including ammonium nitrate fertilizer up to 1948

(e) Unrefined only.

IMPORTS OF NITROGEN COMPOUNDS

(Less Re-exports)

(Long tons)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Nitrate of potash ..	(c) 5	297	110	25	(c) 37	244	488
Nitrate of soda ..	19,175	45,085	19,276	44,553	43,846	17,000	30,044
Nitrate of lime ..	1	—	—	—	1	—	—
Cyanamide ..	850	686	1,573	1,703	1,808	3,615	3,439
Ammonium chloride ..	—	—	(c) 6	—	—	—	9
Ammonium nitrate ..	2	—	—	—	—	2	—
Ammonium phosphate ..	35,162	18,273	9,615	—	—	21	(a)
Ammonium sulphate ..	—	—	—	858	—	—	—
Anhydrous ammonia ..	—	—	—	2	2	6	13
Anglo-Egyptian Sudan—							
Nitrogenous fertilizers	104	2,717	2,368	3,447	12,576	9,654	10,567
Kenya and Uganda—							
Nitrate of soda ..	(a)	(a)	(a)	81	—	—	—
Synthetic nitrate of soda, calcium and ammonia	(a)	(a)	(a)	1,432	—	—	19
Other nitrogen fertilizers	(a)	(a)	(a)	440	1,093	707	1,315
Mauritius—							
Nitrate of potash ..	—	500	—	1,976	991	988	1,482
Nitrate of soda ..	—	3,454	9,220	5,829	4,940	6,916	6,622
Ammonium chloride ..	—	—	427	—	—	—	—
Ammonium sulphate ..	2,471	2,500	4,596	11,408	19,566	14,078	21,828
Northern Rhodesia—							
Nitrates ..	—	—	1	—	—	8	72
Ammonium compounds	58	39	43	449	570	511	837
Southern Rhodesia—							
Nitrates (incl. fertilizers)	77	84	79	2,786	1,449	1,559	1,577
Anhydrous ammonia ..	10	12	14	9	11	20	19
South West Africa—							
Anhydrous ammonia ..	5	4	4	7	6	8	(a)
Tanganyika—							
Nitrate of soda ..	(a)	(a)	(a)	20	1	—	—
Synthetic nitrate of soda, calcium and ammonia	(a)	(a)	(a)	260	101	2	21
Other nitrogen fertilizers	(a)	(a)	(a)	26	694	813	853
Union of South Africa—							
Nitrate of soda ..	(b) 533	472	4,953	3,034	248	(c) 1	(a)
Ammonium sulphate ..	15,237	10,198	10,255	4,746	23,892	33,569	(a)
Ammonium chloride ..	(b) 403	534	681	397	777	597	(a)
Ammonium nitrate ..	(b) 8,617	2,873	5,893	12,482	12,775	15,629	(b) 16,136
Anhydrous ammonia ..	—	3	—	2	3	1	(a)
British Guiana—							
Nitrogenous fertilizers ..	10,939	11,046	8,452	10,158	15,147	10,329	17,967
British West Indies—							
Barbados—							
Nitrate of soda ..	—	—	—	613	1,253	—	—
Ammonium sulphate ..	—	7,484	2,582	6,771	7,582	6,222	12,137
Jamaica—							
Nitrogenous fertilizers	345	6,656	6,630	5,812	9,313	10,844	15,954
Trinidad and Tobago—							
Ammonium sulphate ..	6,086	7,330	6,826	9,136	5,715	5,275	8,916
Canada (d)—							
Nitrate of potash ..	655	366	261	355	439	448	634
Nitrate of soda ..	12,417	13,909	14,973	17,594	16,938	17,486	23,613
Ammonium sulphate ..	93	57	110	116	125	92	281
Ammonium chloride ..	509	731	139	526	388	351	1,128
Ammonium nitrate ..	74	73	75	93	148	652	1,279
Anhydrous ammonia ..	151	1,836	2,202	58	525	5,714	1,214

(a) Information not available.

(c) Excess of re-exports.

(b) Total imports.

(d) Including Newfoundland from April 1, 1949.

IMPORTS OF NITROGEN COMPOUNDS (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES (Cont.)							
Newfoundland (c)—							
Nitrogen fertilizers ..	415	580	849	800	(c)	(c)	(c)
Liquid ammonia ..	3	5	5	9	(c)	(c)	(c)
Anhydrous ammonia ..	12	7	10	5	(c)	(c)	(c)
Ceylon—							
Nitrate of potash refuse	—	—	—	—	—	2	—
Nitrate of soda ..	—	—	—	3,620	3,665	29	—
Ammonium sulphate ..	47,614	29,567	44,027	47,298	54,345	49,790	86,306
Cyanamide ..	1,949	—	—	709	292	160	196
Cyprus—							
Ammonium chloride ..	1	13	2	5	6	6	6
Hong Kong (total imports)—							
Nitrate of potash ..	(a)	202	446	(a)	(a)	(a)	(a)
Nitrate of soda ..	(a)	88	1,337	(a)	(a)	(a)	(a)
Ammonium sulphate ..	(a)	1,687	4,311	(b) 44,055	(b) 39,447	(b) 100,329	(b) 105,195
Ammonium chloride ..	(a)	961	1,142	1,075	442	1,084	4,184
Anhydrous ammonia ..	(a)	22	68	(a)	(a)	(a)	(a)
India—							
Nitrate of soda ..	—	—	1,712	23,666	33,769	583	10,710
Ammonium sulphate ..	70,747	121,848	117,825	140,009	121,297	410,907	84,684
Ammonium phosphate ..	1,786	4,504	6,002	4,737	18,666	—	—
Ammonium chloride ..	2,014	1,904	1,816	3,429	4,438	1,508	4,443
Other ammonium salts	1,696	308	2,553	3,629	817	399	2,809
Anhydrous ammonia ..	147	157	191	111	144	91	137
Other nitrogen fertilizers	6	1	6,978	5,450	6,428	12,989	450
Malaya (total imports)—							
Nitrate of potash ..	(a)	53	4	—	41	10	84
Other nitrogen fertilizers	(a)	1,937	14,715	10,861	17,131	22,311	29,154
Palestine—							
Nitrogen fertilizers ..	12,375	7,208	(a)	(a)	(e)	(e)	(e)
Anhydrous ammonia ..	7	7	(a)	(a)	(e)	(e)	(e)
Australia—							
Nitrate of potash ..	95	124	139	35	218	269	805
Nitrate of soda ..	4,352	3,007	3,720	8,019	15,324	13,270	12,740
Ammonium chloride ..	410	84	128	14	120	21	59
Ammonium sulphate ..	26,707	26,052	11,587	25,478	28,485	42,749	28,982
Ammonium nitrate ..	(d) 25	(d) 80	(d) 1,304	(d) 799	1,218	535	3,092
Other nitrogen fertilizers	(d) 3	(d) 30	(d) 2	(d) 69	(d) 33	86	55
New Zealand—							
Nitrate of potash ..	2	1	22	11	10	94	64
Nitrate of soda ..	4,173	2,106	2,802	2,504	3,204	3,067	4,042
Ammonium sulphate ..	2,089	649	1,126	2,411	2,687	4,587	4,692
Ammonium chloride ..	198	170	340	96	131	338	235
Anhydrous ammonia ..	65	62	76	91	110	83	83
Fiji—							
Ammonium sulphate ..	(a)	(a)	(a)	2,719	2,989	4,573	3,508
Irish Republic—							
Nitrate of potash ..	55	46	55	40	141	215	95
Nitrate of soda ..	80	174	8,051	10,100	6,037	159	5,788
Ammonium sulphate ..	1,602	4,021	8,089	27,562	25,844	31,185	36,700
Anhydrous ammonia ..	25	28	48	38	56	57	80
FOREIGN COUNTRIES							
Austria—							
Nitrate of lime ..	} (a)	(a)	(a)	(a)	} (a)	(a)	2,928
Nitrate of potash ..							
Cyanamide ..							
Ammonium chloride ..							
					(a) 119	(a) 205	206
					(a) 17	6,941	4,886
						176	322

(a) Information not available.

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

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

(d) Years ended June 30 of that stated.

(e) See "Israel" under Foreign Countries.

IMPORTS OF NITROGEN COMPOUNDS (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Belgium-Luxemburg E.U.—							
Nitrate of potash ..	(a)	(a)	(a)	41	27	113	124
Nitrate of soda ..				12,902	63	14,162	5,957
Nitrate of lime ..				1	100	—	1
Cyanamide ..				2	—	137	728
Ammonium sulphate ..				16	20	6,673	1,694
Ammonium chloride ..				136	597	739	546
Ammonium nitrate ..				—	—	3,497	478
Anhydrous ammonia ..				—	—	6	6,226	(a)	11,543
Bulgaria—							
Nitrate of potash ..	103	118	(a)	(a)	(a)	(a)	(a)
Nitrate of soda ..	75	72					
Ammonium nitrate, etc.	141	5,339					
Ammonium chloride ..	120	99					
Liquid ammonia ..	3	—					
Czechoslovakia—							
Nitrate of soda ..	(a)	200	406	(c) —	(a)	(a)	(a)
Ammonium chloride ..		15	—	(c) 6,776	(a)	(a)	(a)
Cyanamide, etc. ..		11	68	(c) 84	(a)	(a)	(a)
Denmark—							
Nitrate of potash ..	12	462	380	335	587	738	(a)
Nitrate of soda ..	5,230	46,046	55,320	39,391	73,600	44,136	40,187
Nitrate of lime ..	208,961	181,796	186,268	163,366	241,030	305,619	361,281
Ammonium sulphate ..	115	—	14,173	27,603	9,501	32,182	14,436
Ammonium chloride ..	163	580	482	635	430	820	1,024
Ammonium nitrate ..	98	140	312	258	198	216	61,662
Cyanamide ..	4,771	5,033	4,862	5,190	2,188	3,937	787
Finland (total imports)—							
Nitrate of potash ..	—	17	33	37	55	30	100
Nitrate of soda ..	100	1	17,539	5,637	241	607	565
Nitrate of lime ..	—	16,212	24,977	22,630	38,742	40,209	29,276
Ammonium nitrate ..	2,335	4,495	14,283	17,383	10,811	7,262	6,168
Ammonium sulphate ..	1,311	203	966	608	541	23,434	61,504
Ammonium chloride ..	—	133	156	43	136	42	319
Cyanamide ..	5,106	—	—	—	—	—	—
Liquid ammonia ..	48	17	41	215	450	402	555
France—							
Nitrate of soda ..	37,662	196,194	135,103	128,826	107,340	139,242	147,097
Nitrate of lime, etc. ..	44,063	180,413	94,068	11,748	22,259	—	1,699
Ammonium sulphate (b)	19,719	17,952	21,305	32,325	10,553	—	25,111
Ammonium nitrate ..	899	10,567	—	119,812	99,430	23,385	28,157
Ammonium chloride ..	(a)	(a)	(a)	976	158	1,063	782
Anhydrous ammonia ..	(a)	1,685	5,494	15,161	13,889	16,077	25,669
Cyanamide ..	325	—	1,968	6,709	7,577	25,869	—
Liquid ammonia ..	44	1	3,121	32	—	2	16
Other nitrogen fertilizers	4,003	19,737	35,191	2,040	20	59	103
Germany (Federal)—							
Nitrate of potash ..	(a)	(a)	(d) 59,052	—	34	—	10
Nitrate of soda ..				—	—	—	3,978
Nitrate of lime, etc. ..				85,864	15	—	—
Cyanamide ..				—	—	—	—
Ammonium nitrate ..				164,937	97,833	32,613	—
Ammonium sulphate ..				—	1	13	—
Ammonium chloride ..				—	—	—	—
Liquid ammonia ..				—	—	—	1
Greece—							
Nitrate of soda ..	—	8,779	134	9,214	3,953	16,671	46,522
Ammonium sulphate ..	3,835	4,462	10,373	16,211	47,254	23,943	58,645
Liquid ammonia ..	—	95	67	758	1,169	745	1,224

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

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

IMPORTS OF NITROGEN COMPOUNDS (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Iceland—							
Nitrate of lime	1	3,550	1,964	833	1,968	1,462	—
Nitrate of soda	13	2	—	—	492	—	—
Ammonium sulphate ..	2,669	893	(a)	(a)	(a)	(a)	(a)
Ammonium nitrate ..	(a)	(a)	(a)	(a)	2,391	2,705	7,135
Lime ammonium nitrate	892	2,179	2,578	4,104	4,500	4,913	2,461
Nitrophoska	—	—	5	—	(a)	(a)	295
Other nitrogen fertilizers	246	250	(a)	(a)	1,715	244	177
Italy—							
Nitrate of potash ..	(a)	(a)	1,540	753	1,574	1,839	1,320
Nitrate of soda	(a)	(a)	70,834	29,557	4,496	40,564	25,666
Nitrate of lime	—	—	—	3,675	2,294	10,488	7,814
Ammonium chloride ..	(a)	(a)	197	279	224	487	413
Ammonium nitrate ..	(a)	(a)	7,399	642	31	906	5,038
Cyanamide	(a)	(a)	8,269	50	4,103	8,313	2,948
Netherlands—							
Nitrate of potash ..	(a)	156	198	220	718	1,891	1,647
Nitrate of soda	(a)	114,450	55,781	69,339	33,160	31,332	1,956
Nitrate of lime	(a)	29,461	19,647	14,727	13,108	28	314
Ammonium sulphate ..	(a)	982	14,069	966	2,340	6,912	285
Ammonium chloride ..	(a)	85	206	160	241	810	974
Ammonium nitrate ..	(a)	78,271	106,927	60,178	67,568	5,617	—
Lime ammonium nitrate	(a)	2	—	—	—	177,074	109,756
Cyanamide	(a)	14,181	19,887	11,704	19,501	17,178	12,795
Other nitrogen fertilizers	(a)	99	—	—	15,812	—	—
Norway—							
Nitrate of potash ..	210	122	115	93	169	106	(a)
Nitrate of soda	—	—	—	—	—	—	(a)
Ammonium sulphate ..	—	—	—	162	—	266	(a)
Ammonium nitrate ..	—	—	—	—	—	—	(a)
Poland—							
Ammonium nitrate ..	(a)	(a)	17,440	(a)	(a)	(a)	(a)
Portugal—							
Nitrate of potash ..	278	198	249	122	173	—	(a)
Nitrate of soda	33,877	44,998	22,834	50,644	29,708	26,969	(a)
Ammonium sulphate ..	9,828	7,820	24,320	39,249	37,630	84,804	104,588
Ammonium chloride ..	146	623	561	300	774	1,753	10
Ammonium nitrate ..	13,958	8,198	1,603	4,518	8,194	1,027	(a)
Cyanamide	200	4,348	3,758	974	2,954	6,882	14,745
Lime ammonium nitrate	—	—	—	3,008	4,563	1,030	(a)
Spain—							
Nitrate of soda	47,412	68,550	87,518	73,069	101,670	162,818	30,555
Cyanamide	761	—	—	975	2,341	3,742	226
Ammonium sulphate ..	—	—	37,143	45,549	57,751	175,223	172,194
Synthetic nitrates ..	1,446	31,355	4,162	10,039	27,089	93,004	112,787
Sweden—							
Nitrate of potash ..	101	592	412	223	610	542	(a)
Nitrate of soda	12,152	24,280	18,156	23,520	37,944	34,370	36,165
Nitrate of lime	98,328	111,172	79,374	78,177	131,916	210,067	284,563
Ammonium nitrate ..	—	—	—	1	2,444	6,378	(a)
Ammonium sulphate ..	25	21	20	14	15	3,833	8,825
Ammonium chloride ..	208	758	613	890	403	634	(a)
Cyanamide	2,165	—	—	—	2,529	(a)	(a)
Liquid ammonia ..	—	—	5	—	—	—	(a)
Switzerland—							
Nitrate of potash, crude	—	49	—	—	—	—	—
Nitrates of potash and soda, purified ..	39	707	737	878	319	932	547
Ammonium sulphate, etc.	—	10	5	105	12	1,089	419
Ammonium chloride ..	88	383	644	331	323	516	798
Liquid ammonia ..	—	1	—	—	—	49	5

(a) Information not available.

IMPORTS OF NITROGEN COMPOUNDS (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Yugoslavia—							
Nitrate of potash ..	(a)	(a)	(a)	(a)	(a)	98 9,399 82 295 2,599	222 12,210 141 79 8,930
Nitrate of soda ..							
Ammonium chloride ..							
Ammonium sulphate ..							
Ammonium nitrate ..							
Algeria—							
Nitrate of potash ..	12	20	15	100	16	38	22
Nitrate of soda ..	557	275	5,187	8,494	583	345	384
Nitrate of lime ..	2,935	4,643	1,157	1,255	537	2,216	4,104
Ammonium sulphate ..	—	4,204	18,343	12,666	14,183	14,401	21,608
Ammonium nitrate ..	(a)	(a)	(a)	5,304	527	3,664	2,617
Cyanamide ..	—	41	20	985	59	578	274
Liquid ammonia ..	25	135	141	75	80	123	106
Egypt—							
Nitrate of soda ..	225,195	169,720	367,057	369,245	339,138	337,512	(a)
Nitrate of lime ..	(a)	(a)	(a)	(a)	50,732	32,126	(a)
Ammonium sulphate ..	14,300	20,807	21,797	63,620	61,895	(a)	(a)
Ammonium chloride ..	324	287	315	582	569	(a)	(a)
Ammonium nitrate ..	36,205	—	10	20,854	104,467	(a)	(a)
Nitro-chalk ..	—	—	—	—	—	(a)	(a)
Madagascar—							
Nitrogenous fertilizers ..	(a)	1,480	2,311	1,177	(a)	(a)	(a)
Morocco (French)—							
Nitrate of soda ..	79	523	633	(a)	(a)	(a)	(a)
Ammonium sulphate ..	5	528	7,510	(a)	(a)	(a)	(a)
Morocco (Spanish)—							
Ammonium sulphate ..	42	105	110	(a)	(a)	(a)	(a)
Mozambique—							
Ammonium sulphate ..	11	—	—	—	—	—	—
Tunis—							
Nitrate of potash ..	1	6	12	16	(a)	(a)	(a)
Nitrate of soda ..	89	90	186	276	(a)	(a)	(a)
Nitrate of lime ..	—	63	—	20	(a)	(a)	(a)
Ammonium sulphate ..	—	—	290	1,256	(a)	(a)	(a)
Cuba—							
Nitrates of potash and soda	22,190	(a)	(a)	18,954 15,906 217	13,143 21,913 198	14,543	(a)
Ammonium sulphate ..	11,638						
Anhydrous ammonia ..	255						
Mexico—							
Nitrates of potash and soda	15,695	11,236	(b) 19,690	(b) 15,441	(a)	(b) 7,962	(a)
Ammonium sulphate ..	4,371	2,899	2,914	2,415	(a)	(a)	(a)
Ammonium chloride ..	198	376	(a)	(a)	(a)	(a)	(a)
Ammonium nitrate ..	2,504	2,206	3,337	3,026	3,624	(a)	(a)
Liquid ammonia ..	863	837	1,485	1,504	1,338	1,701	(a)
United States—							
Nitrates of potash and soda, crude ..	—	3,929	2,232	—	6,074	18,240	7,365
Nitrate of soda ..	758,829	482,920	496,897	643,717	603,163	549,709	648,196
Nitrate of lime ..	—	2,946	7,900	8,715	34,474	39,581	49,771
Ammonium sulphate ..	106,152	90,677	102,141	94,542	94,195	128,154	192,952
Ammonium chloride ..	2,637	328	369	821	739	5,332	2,995
Ammonium nitrate ..	585	987	88,786	89,860	123,836	198,948	306,359
Ammonium phosphates	82,819	81,351	93,919	96,632	112,745	95,215	120,575
Cyanamide ..	125,944	145,619	137,289	104,021	103,469	87,254	60,921
Argentina—							
Nitrate of potash ..	(a)	(a)	47,000	13,319	25,910	21,455	(a)
Nitrate of soda ..	13,785						
Ammonium sulphate ..	—						
Liquid ammonia ..	19						
Anhydrous ammonia ..	—	44	—	—	—	—	—

(a) Information not available.

(b) Nitrate of soda only.

IMPORTS OF NITROGEN COMPOUNDS (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Brazil (total imports)—							
Nitrate of potash ..	975	703	906	1,168	881	(a)	(a)
Nitrate of soda ..	29,874	34,905	69,401	36,879	37,639	61,509	(a)
Ammonium nitrate ..	45	10	90	75	379	(a)	(a)
Ammonium sulphate ..	437	864	1,354	134	803	(a)	(a)
Cyanamide ..	31	137	49	143	167	(a)	(a)
Liquid ammonia ..	45	13	74	41	37	(a)	(a)
Anhydrous ammonia ..	157	253	239	112	234	(a)	(a)
Chile—							
Ammonium chloride ..	214	261	3,643	1,918	6,184	2,258	4,986
Ammonium sulphate ..	3	4					
Ammonium nitrate ..	5,003	3,248					
Liquid ammonia ..	19	3					
Anhydrous ammonia ..	100	86					
Colombia—							
Nitrate of potash ..	79	249	(a)	(a)	158	289	(a)
Nitrate of soda ..	2,367	2,287					
Ammonium chloride ..	17	6					
Ammonium sulphate ..	212	7					
Peru—							
Nitrate of potash ..	(a)	(a)	(a)	(a)	(a)	5,687	(a)
Nitrate of soda (c) ..	27,971	36,625	(a)	31,025	(a)	7,383	(a)
Liquid ammonia ..	102	103	(a)	116	(a)	(a)	(a)
Uruguay—							
Nitrate of potash ..	(a)	(a)	(a)	43	106	41	(a)
Nitrate of soda ..							
Ammonium sulphate ..							
Liquid ammonia ..							
Venezuela—							
Nitrate of potash ..	31	66	51	427	(a)	(a)	(a)
Nitrate of soda ..	729	1,653	2,588	347	(a)	(a)	(a)
Ammonium sulphate ..	197	617	523	136	(a)	(a)	(a)
Liquid ammonia ..	25	18	50	76	(a)	(a)	(a)
China—							
Nitrate of potash ..	(a)	214	710	28	(a)	(a)	(a)
Nitrate of soda ..							
Ammonium sulphate ..							
		3,923	28,794	41,875	(a)	(a)	(a)
Israel—							
Nitrate of soda ..	(b)	(b)	(b)	(b)	148	15	(a)
Ammonium sulphate ..							
Nitrogen fertilizers ..							
Anhydrous ammonia ..							
					7,223	14,409	(a)
					3,745	3,943	(a)
					33	30	(a)
Japan (total imports)—							
Ammonium sulphate ..	39,368	(a)	(a)	47,215	(a)	198,144	(a)
Ammonium nitrate ..	(a)	—	239,096	276,051	(a)	73,342	(a)
Syria and Lebanon—							
Nitrates ..	2,168	3,370	(a)	(a)	(a)	(a)	(a)
Ammonium chloride ..	32	73	(a)	(a)	(a)	(a)	(a)
Liquid ammonia ..	9	1	(a)	(a)	(a)	(a)	(a)
Turkey—							
Nitrate of soda ..	77	—	2,252	1,372	690	69	1,240
Ammonium chloride ..	16	—	125	270	304	207	406
Ammonium sulphate ..	671	890	135	3,961	—	—	1
Ammonium nitrate ..	—	—	—	150	147	169	532
Cyanamide ..	370	—	—	—	—	—	—
Di-ammonium phosphate ..	1,385	—	—	906	—	—	—
Other nitrogen fertilizers ..	—	50	1,485	—	—	—	—
Liquid ammonia ..	(a)	(a)	(a)	33	25	111	49

(a) Information not available.

(b) See "Palestine" under British Countries.

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

PETROLEUM AND ALLIED PRODUCTS

PRODUCTION OF CRUDE PETROLEUM*

(Long tons)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Crude petroleum ..	71,600	55,399	47,255	43,500	45,600	45,700	45,200
Shale oil	116,186	111,775	97,232	109,600	112,500	111,600	104,500
Union of South Africa (Shale oil) (c)	25,400	22,700	29,200	39,016	37,581	39,569	37,514
Canada (b) (n)	(h) 1,073,772	905,234	919,654	1,496,040	2,636,443	3,626,245	(k) 6,097,000
Barbados	248	183	44	11	24	—	—
Trinidad (b)	3,000,000	2,877,400	2,919,000	2,872,493	2,945,246	2,947,489	2,977,531
Bahrein Islands (i) .. .	980,014	1,073,873	1,262,336	1,463,454	1,473,096	1,476,663	1,474,742
British Borneo—							
Brunei	11,200	285,496	1,700,231	2,645,412	3,337,027	4,051,010	4,891,784
Sarawak	(a) —	1,000	23,964	46,597	56,752	56,601	51,702
Burma (b)	37,000	—	11,570	(f) —	(f) —	(f) —	(f) —
India (b)	} 319,288	296,340	{ 251,707	253,313	257,572	251,804	(a) —
Pakistan (j) .. .. .								54,521	82,018	134,457	183,000	193,985
Kuwait (i)	—	797,350	2,815,143	6,291,577	12,183,669	17,018,666	27,783,170
Qatar (i)	—	—	—	—	—	1,551,853	2,332,213
Australia	—	—	—	120	140	160	270
New Zealand	372	333	336	339	965	948	758
TOTAL	5,635,000	6,427,000	10,132,000	15,343,000	23,221,000	31,361,000	46,250,000
FOREIGN COUNTRIES							
Albania	110,000	120,000	180,000	240,000	300,000	345,000	410,000
Austria	446,534	832,338	(d) 900,000	(d) 960,000	(d) 1,250,000	(d) 1,500,000	(d) 1,832,000
Czechoslovakia	25,400	23,300	36,600	35,000	48,000	49,000	68,000
France	27,941	50,865	49,090	50,908	70,900	125,200	289,000
Germany (Federal) .. .	533,329	(g) 638,900	(g) 567,506	625,207	828,284	1,100,949	1,345,100
Hungary	645,418	650,207	560,700	476,000	500,000	502,000	760,000
Italy	6,920	10,611	10,296	9,064	9,032	8,041	17,407
Netherlands	5,759	61,657	209,300	487,715	611,131	693,708	703,063
Poland	102,461	114,898	126,212	(d) 133,000	(d) 150,000	(d) 160,000	(d) 180,000
Roumania	4,606,000	4,189,767	3,736,393	(d) 4,084,000	(d) 4,324,000	(d) 4,429,000	(d) 4,192,000
U.S.S.R. (d)	20,000,000	21,500,000	25,600,000	28,900,000	33,000,000	37,200,000	41,600,000
Yugoslavia	(d) 20,000	20,947	37,949	34,408	61,619	110,514	153,168
Algeria	253	162	128	108	267	3,390	8,040
Egypt	1,328,160	1,262,053	1,312,542	1,860,736	2,209,287	2,305,925	2,295,343
Morocco (French) .. .	3,350	2,534	2,723	12,715	17,203	38,695	74,001
Cuba	18,652	19,727	37,000	36,000	20,000	15,000	13,000
Mexico (b)	6,312,151	6,632,850	8,026,400	8,243,549	8,746,100	10,156,056	10,761,000
United States (b) .. .	234,747,260	237,525,890	254,381,781	276,737,671	252,096,849	270,352,600	307,469,700
Argentina	3,216,659	2,924,574	3,071,410	3,265,272	3,175,900	3,371,000	3,449,000
Bolivia	57,495	54,639	56,847	69,888	89,173	82,000	77,000
Brazil	10,160	8,600	12,410	18,450	14,060	37,823	88,815
Chile	—	—	—	—	16,000	79,000	91,000
Colombia (b)	3,214,793	3,158,242	3,518,310	3,352,300	4,186,200	4,797,091	5,520,986
Ecuador	355,163	315,563	314,730	341,879	341,717	350,959	352,000

* Excluding Natural Gasoline. See page 212.

(a) Information not available.

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

(c) Years ended June 25 of that stated.

(d) Estimated.

(e) Average annual production during Japanese occupation.

(f) Included under Foreign Countries.

(g) British and U.S. Zones.

(h) Revised to exclude Natural Gasoline.

(i) British Protected State.

(j) Revised.

(k) Including Natural Gasoline.

PRODUCTION OF CRUDE PETROLEUM (Cont.)

Producing Country	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Peru	1,798,543	1,612,795	1,674,410	1,842,594	1,941,654	1,959,000	2,102,000
Venezuela	46,834,474	56,258,426	62,979,666	70,503,375	69,343,100	78,611,400	89,456,000
Burma	(c)	(c)	(c)	44,528	35,118	66,902	100,414
China (d)	60,100	65,600	52,400	80,000	100,000	135,000	109,000
Formosa	509	2,000	2,600	(a)	(a)	(a)	(a)
Indonesia (b)	1,065,000	306,069	1,197,425	4,257,638	5,839,472	6,313,315	7,327,307
Iran	16,839,490	19,189,551	20,192,419	24,871,058	26,807,000	31,750,000	46,176,600
Iraq	4,816,156	4,712,235	4,759,387	3,426,482	4,116,267	6,544,913	8,552,300
Japan	210,200	186,600	178,300	157,000	191,400	289,000	327,000
Saudi Arabia	2,841,500	7,992,250	11,980,260	18,751,200	22,820,783	26,196,852	36,608,585
Turkey	(a)	(a)	(a)	(a)	14,522	16,700	18,800
TOTAL	350,266,000	370,955,000	406,359,000	454,520,000	443,950,000	489,700,000	542,530,000
WORLD'S TOTAL	356,185,000	377,382,000	416,491,000	469,863,000	467,171,000	521,059,000	588,780,000

(a) Information not available.

(b) For conversion rate for 1945 to 1947 see footnote (b) on previous page.

(c) Included under British Countries.

(d) Estimated.

(e) Anglo-Iranian Oil Co. only.

PRODUCTION OF NATURAL GASOLINE

(Long tons)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Canada	(d)	49,342	48,548	53,256	54,255	50,725	(d)
Trinidad (b)	20,680	21,250	20,570	20,700	19,260	19,485	22,845
India	2	111	70	—	—	—	—
FOREIGN COUNTRIES							
Poland	(a)	3,623	9,984	(a)	(a)	(a)	(a)
Roumania	136,800	128,810	113,689	(a)	(a)	(a)	(a)
Egypt	(a)	(a)	(a)	(a)	(a)	11,115	12,520
Cuba	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Mexico	(a)	(a)	(a)	(a)	(a)	158,000	(a)
United States	12,853,000	13,282,000	15,167,000	16,837,000	17,925,000	20,881,000	23,496,000
Argentina	8,826	8,505	7,698	9,340	8,301	(a)	(a)
Ecuador	4,800	4,700	(a)	(a)	(a)	(a)	(a)
Peru	109,882	106,468	104,114	110,675	136,012	(a)	(a)
WORLD'S TOTAL (c)	13,300,000	13,760,000	15,630,000	17,320,000	18,430,000	21,400,000	24,000,000

(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.

(d) Included with crude petroleum.

PRODUCTION OF NATURAL GAS*

(Million cubic feet)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Union of South Africa	(a)	a)	9	11	12	12	13
Barbados	20	7	18	57	69	74	106
Canada	48,412	47,900	52,657	58,603	60,457	67,822	73,838
Trinidad	27,503	27,170	29,617	30,697	32,287	32,312	31,725
Brunei (e)	(a)	(b) 1,000	8,933	19,837	20,483	26,615	(a)
FOREIGN COUNTRIES							
Austria	1,151	1,625	1,854	1,833	2,098	1,769	1,699
France	3,015	3,891	5,191	6,145	8,052	8,306	10,044
Germany (Federal)	2,507	3,860	2,746	2,377	1,922	2,386	2,715
Hungary	(c) 1,420	3,221	3,560	4,136	4,414	(a)	(a)
Italy	1,475	2,264	3,285	3,818	8,341	17,807	33,792
Poland	4,590	5,153	5,236	(b) 9,147	(a)	(a)	(a)
Roumania	46,065	47,844	41,530	(a)	77,693	(a)	(a)
Mexico	26,910	27,122	35,258	37,361	41,954	59,244	83,950
United States	3,918,686	4,030,605	4,582,173	5,148,020	5,419,736	6,281,048	7,457,359
Argentina	21,507	19,998	20,578	21,411	23,793	(a)	(a)
Ecuador	2,476	2,338	3,072	(a)	(a)	(a)	(a)
Uruguay	111	150	104	16	20	27	36
Venezuela	256,385	331,394	402,589	470,393	502,741	557,111	673,112
China (d)	5	2,157	1,928	(a)	(a)	(a)	(a)
Indonesia	(a)	(a)	848	13,031	17,777	22,088	27,900

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.

(e) Actual production. The amounts sold were: 1949—1,665; 1950—1,829; 1951—1,752.

PRODUCTION OF NATURAL ASPHALT, ETC.

(Long tons)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES .							
Barbados (exports of manjak)	9	—	—	—	—	—	—
Trinidad	63,118	93,851	87,346	128,993	145,160	132,846	154,705
FOREIGN COUNTRIES							
Albania (estimated) ..	a)	9,000	14,000	(a)	(a)	(a)	(a)
Spain	9,800	2,560	4,507	4,709	7,982	(a)	(a)
Angola (Libollite) ..	(a)	118	1,000	200	(a)	(a)	(a)
Belgian Congo—							
Bitumen	—	—	—	—	—	359	1,660
French Equatorial Africa—							
Bitumen	344	—	—	—	—	—	—
French West Africa—							
Bitumen	133	—	—	—	—	—	—
Cuba (c)	(b) 8,927	2,048	(a)	(a)	(a)	(a)	(a)
Mexico (exports) ..	2,085	429	(a)	(a)	(a)	(a)	(a)
United States (sales)—							
Gilsonite	54,708	61,078	59,969	46,537	45,948	59,095	58,501
Wurtzilite	—	21	15	—	—	—	—
Argentina—							
Rafaelite	1,471	(a)	(a)	(a)	(a)	(a)	(a)
Asphaltite	133,200	83,300	81,800	81,000	77,500	46,100	14,000

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 is not available.

(c) U.S. Bureau of Mines.

PRODUCTION OF ASPHALT ROCK

(Long tons)

Producing Country	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES							
France	13,768	31,244	35,776	44,008	52,834	82,270	75,000
Italy	142,885	201,246	245,838	241,336	237,966	243,442	260,750
Spain	7,200	3,600	4,200	5,448	7,637	(a)	(a)
Switzerland	9,235	10,173	9,346	(a)	(a)	(a)	(a)
Angola	6,159	7,340	7,294	11,958	14,764	7,301	17,482
United States (sales)	573,750	694,158	897,089	967,861	1,027,617	1,057,746	1,230,745
Indonesia	(a)	2,408	195	(a)	(a)	(a)	(a)
Philippine Republic	(a)	(a)	(a)	3,050	44,500	51,983	29,842
Syria	(a)	(a)	16,000	16,258	16,925	14,458	14,115

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	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Great Britain	1,398,202	1,316,533	1,110,817	1,380,719	1,402,694	1,452,287	1,411,709
Union of South Africa (b)	119,275	111,891	165,816	205,318	203,867	212,613	196,596
Australia	123,170	121,654	138,427	136,352	120,956	98,487	78,564
FOREIGN COUNTRIES							
Austria	4,546	2,598	1,586	1,122	894	628	985
France	222,248	340,043	409,238	436,465	487,249	551,035	340,418
Italy	12,855	5,018	3,158	5	(a)	(a)	(a)
Spain	99,574	106,129	67,745	74,465	73,321	49,947	52,285
Sweden (c)	1,751,282	1,843,937	1,326,960	1,376,567	1,235,787	1,532,970	(a)

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

(a) Information not available.

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

(c) Alum shale.

PRODUCTION OF PETROLEUM REFINERY PRODUCTS IN CERTAIN COUNTRIES*

(Long tons)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Aviation and motor spirit	431,500	486,800	328,600	639,700	904,100	1,639,800	3,100,000
Other spirit	43,100	69,700	69,800	94,900	107,900	128,100	95,000
Kerosene	4,800	38,200	89,300	121,400	130,500	161,400	245,100
Gas oil and diesel oil ..	202,100	470,500	436,600	887,700	1,206,900	1,913,700	3,055,100
Fuel oil	89,600	351,100	580,300	1,359,400	2,347,600	3,772,500	7,650,000
do. (used in refineries)	109,700	249,900	258,200	401,300	493,500	595,800	852,900
Lubricating oil	253,700	312,600	344,100	368,100	376,900	421,900	412,200
Bitumen	278,621	459,529	433,068	532,400	561,900	637,200	746,200
Paraffin wax	11,097	11,910	15,228	14,100	14,200	15,600	15,100
Canada (b)—							
Aviation spirit	60,873	25,385	28,977	45,815	45,153	40,656	(a)
Motor spirit	3,061,777	3,310,244	3,493,187	3,950,359	4,676,207	5,204,227	(a)
Naphtha (d)	95,455	85,468	93,322	94,877	118,989	118,914	(a)
Kerosene	264,673	430,782	343,921	463,897	510,215	713,957	(a)
do. Power	134,057	136,643	128,727	159,837	137,774	112,228	(a)
Gas oil, etc.	488,482	729,299	982,988	722,935	1,156,639	1,555,114	(a)
Fuel oil	2,245,715	2,243,299	2,272,026	2,867,406	2,895,424	3,129,582	(a)
do. (used in refineries)	438,378	446,359	479,804	511,571	545,238	603,312	(a)
Diesel oil	455,844	507,680	711,853	757,401	814,871	942,813	(a)
Lubricating oil	205,735	226,881	242,093	238,582	230,179	233,342	(a)
Grease	8,997	10,273	13,521	11,406	13,560	15,013	(a)
Coke	59,660	62,156	69,754	78,070	104,794	109,099	(a)
Asphalt	315,013	415,431	580,123	633,004	627,710	662,698	(a)
Barbados—							
Motor spirit	291	(a)	(a)	(a)	(a)	(a)	(a)
Kerosene	500	(a)	(a)	(a)	(a)	(a)	(a)
Fuel oil	1,790	(a)	(a)	(a)	(a)	(a)	(a)
Trinidad—							
Aviation spirit	(a)	(a)	(a)	78,902	129,479	174,152	191,220
Motor spirit				616,499	580,529	569,187	630,404
White spirit				654	295	338	314
Kerosene				59,354	63,574	60,317	84,552
do. Power				167,534	195,042	163,891	347,512
Gas and diesel oil				561,193	581,609	599,359	690,670
Fuel oil				2,078,369	2,414,576	2,359,050	2,747,178
Lubricating oil and greases					352	345	367	356
Bitumen		61,098	54,847	66,361	71,725		
Other finished products			17,319	24,906	37,897	45,961	
Bahrain Islands (c)—							
Aviation spirit	67,897	17,654	2,935	—	—	—	—
Motor spirit	605,854	894,652	1,198,529	1,458,000	1,598,000	1,771,000	2,025,304
Kerosene	303,528	505,311	726,895	665,000	609,000	710,000	833,564
Gas oil and diesel oil ..	583,483	867,166	944,974	1,253,000	1,169,000	1,334,000	1,303,242
Fuel oil	858,825	1,793,629	2,776,980	3,334,000	3,356,000	2,983,000	3,834,619
Bitumen	(a)	(a)	(a)	(a)	45,000	68,000	72,477
India—							
Motor spirit	75,208	60,826	53,791	58,520	(a)	(a)	(a)
Kerosene	38,172	50,851	49,662	40,482	(a)	(a)	(a)
Batching oil	2,013	1,293	2,012	32,110	(a)	(a)	(a)
Other oils		8,000	10,685				
Lubricating oils		15,755	19,242				
Fuel oil	86,713	40,522	47,001	59,735	(a)	(a)	(a)
Coke		11,282	11,172	10,699	(a)	(a)	(a)
Bitumen		3,598	1,187	2,824	(a)	(a)	(a)
Paraffin wax	31,826	32,677	35,624	39,665	(a)	(a)	(a)

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

(a) Information not available.

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

(c) British Protected State.

d) Revised.

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

Producing Country	1945	1946	1947	1948	1949	1950	1951			
BRITISH COUNTRIES (Cont.)										
Pakistan—										
Motor spirit	7,783	7,097	}	8,900	19,800	35,600	36,580			
Kerosene	2,226	1,826		1,545	3,580	7,500	6,670			
Diesel oil	2,407	1,578		5,240	5,180	8,770	(a)			
Fuel oil	3,833	3,605		27,175	73,300	102,100	(a)			
Lubricating oil ..	8,571	3,945		536	668	2,176	(a)			
Greases	215	293		(a)	(a)	(a)	(a)			
Paraffin wax	18	79		(a)	(a)	(a)	(a)			
Sarawak—										
Motor spirit	(a)	230	126,800	264,097	317,980	389,857	429,067			
Kerosene, power ..	(a)	—	(a)	299	317	317	252			
Gas, diesel and fuel oils	(a)	—	843,000	1,388,663	1,393,513	1,464,440	1,505,536			
Australia—										
Motor spirit	5,820	30,758	140,249	206,388	256,000	254,406	299,800			
Kerosene	—	12,103	13,221	11,998	10,500	1,098	(a)			
Gas oil	—	16,966	14,283	23,998	11,000	91,525	37,000			
Diesel oil	—	—	—	1,950	73,000	34,201	115,000			
Fuel oil	4,195	104,811	164,964	139,971	183,000	238,686	322,000			
Lubricating oil (b) ..	6,044	5,938	10,657	23,920	23,302	11,604	41,693			
Grease (b)	4,506	3,719	4,735	9,589	9,589	5,103	(a)			
Bitumen	—	—	—	32,424	52,000	60,255	79,000			
FOREIGN COUNTRIES										
Belgium—										
Motor spirit	}	6,000	21,200	27,031	59,017	72,511	159,905			
Kerosene		4,000	8,100	10,357	9,830	8,950	11,754			
Fuel oil, etc.		(a)	31,000	72,700	148,468	203,244	236,180	577,863		
Lubricating oil		5,000	5,000	6,058	6,673	5,961	4,667			
Asphalt, etc.		34,000	(a)	66,906	53,721	79,161	79,880			
Denmark—										
Gas oil	(a)	(a)	200	}	7,281	10,271	9,632			
Diesel oil	(a)	(a)	6,100							
Lubricating oil	4,763	8,542	9,951					9,256	7,578	10,925
Grease	197	656	870					1,171	941	1,389
Asphalt	(a)	16,303	13,275					14,696	23,592	21,962
France—										
Motor spirit	72,800	740,167	1,252,481	1,685,813	2,495,600	3,084,900	3,858,200			
Kerosene and white spirit	3,720	101,510	195,558	267,229	261,000	280,000	321,000			
Gas oil	39,400	421,693	599,864	1,133,468	1,740,000	2,297,900	2,767,000			
Fuel oil	124,000	880,284	1,811,008	3,839,844	5,364,000	6,627,400	8,920,500			
Lubricating oil	866	67,310	171,646	213,949	200,000	288,000	340,000			
Road oil	}	2,460	203,096	417,924	467,200	607,000	810,000			
Coke										
Paraffin wax										
Germany (Federal) (c)—										
Aviation spirit	(a)	(a)	(a)	2,857	11,896	39,018	64,846			
Motor spirit	(a)	87,400	70,800	96,756	407,326	960,478	1,430,002			
Kerosene	(a)	(a)	(a)	54,347	71,434	83,569	50,861			
Diesel oil	(a)	95,700	77,200	88,207	296,521	552,450	1,194,015			
Fuel oil	(a)	(a)	(a)	54,728	169,319	463,431	769,077			
Lubricating oil	(a)	144,100	161,700	196,586	300,309	540,600	343,574			
Bitumen	(a)	30,600	47,600	123,153	197,737	366,550	392,977			
Other products	(a)	(a)	(a)	115,869	129,492	147,174	64,276			
Hungary—										
Motor spirit	}	200,000	(a)	(a)	(a)	(a)	(a)			
Kerosene		121,000	(a)	(a)	(a)	(a)	(a)			
Gas oil		(a)	97,000	(a)	(a)	(a)	(a)			
Fuel oil		(a)	155,000	(a)	(a)	(a)	(a)			
Lubricating oil		(a)	4,000	(a)	(a)	(a)	(a)			
Italy (d)—										
Motor spirit	1,156	11,953	296,026	407,654	696,880	968,598	1,336,284			
Kerosene	26	5,993	122,120	185,379	225,348	294,415	461,991			
Gas and diesel oil ..	28	16,885	304,111	505,836	760,557	1,023,248	1,386,126			
Fuel oil	397	13,464	458,852	884,628	1,676,787	2,389,993	3,264,277			
Lubricating oil	230	—	23,739	26,264	50,222	56,840	96,693			
Coke	—	109	18,728	23,137	19,688	7,790	4,527			

(a) Information not available

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

(d) Figures for 1949 and 1950 revised. Figures for previous years may not be quite comparable.

(b) Years ended June 30 of year stated.

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

Producing Country	1945	1946	1947	1948	1949	1950	1951	
FOREIGN COUNTRIES (Cont.)								
Italy—(Cont.)								
Bitumen	404	—	38,703	64,282	134,367	177,651	199,239	
Turpentine substitute ..	292	—	6,865	3,426	8,160	10,679	12,620	
Other products	—	—	7,821	9,843	16,494	26,362	43,656	
Netherlands—								
Motor spirit	(a)	(a)	(a)	500,433	678,000	1,284,000	1,615,100	
Kerosene				763	(a)	78,000	189,000	
Diesel oil				186,829	513,000	968,000	1,409,000	
Residual fuel oil				598,640	1,261,000	2,716,000	2,712,000	
Lubricating oil				1,709	1,400	20,000	34,000	
Coke				111,002	(a)	(a)	(a)	
Asphalt				134,861	(a)	(a)	241,000	
Poland—								
Motor spirit	(a)	33,796	46,582	(a)	(a)	(a)	(a)	
Kerosene		17,150	29,138	(a)	(a)	(a)	(a)	
Gas oil and light oils ..		29,562	33,303	(a)	(a)	(a)	(a)	
Lubricating oil		19,279	28,073	(a)	(a)	(a)	(a)	
Greases		2,182	3,393	(a)	(a)	(a)	(a)	
Paraffin wax		8,268	8,138	(a)	(a)	(a)	(a)	
Petroleum jelly		627	564	(a)	(a)	(a)	(a)	
Asphalt		9,391	3,466	(a)	(a)	(a)	(a)	
Coke		1,231	1,719	(a)	(a)	(a)	(a)	
Portugal—								
Motor spirit	(a)	(a)	(a)	63,220	67,506	67,500	68,400	
Kerosene				23,845	46,346	54,600	62,100	
Gas and diesel oil				40,011	40,504	53,200	80,100	
Fuel oil				112,972	119,581	102,400	141,200	
Roumania—								
Motor spirit	1,322,096	1,085,793	1,068,687	(a)	(a)	(a)	(a)	
White spirit	98,000	65,000	14,130	(a)	(a)	(a)	(a)	
Kerosene	450,549	514,662	460,719	(a)	(a)	(a)	(a)	
Gas oil (b)	579,874	507,000	443,285	(a)	(a)	(a)	(a)	
Fuel oil (b)	1,729,809	1,456,000	1,262,992	(a)	(a)	(a)	(a)	
Lubricating oil	95,603	100,000	81,237	(a)	(a)	(a)	(a)	
Paraffin wax	4,200	4,900	6,995	(a)	(a)	(a)	(a)	
Coke	3,468	4,900	8,774	(a)	(a)	(a)	(a)	
Asphalt	33,534	49,000	35,982	(a)	(a)	(a)	(a)	
Other products	36,196	8,722	14,198	(a)	(a)	(a)	(a)	
Sweden—								
Motor spirit	25,647	55,972	52,907	51,308	68,631	139,587	144,707	
White spirit		2,244	1,939	4,254	—	—	(a)	
Kerosene		5,379	7,156	12,612	20,233	29,074	36,719	44,236
Fuel oil, etc.		63,744	373,346	408,645	365,065	304,544	697,478	748,590
Lubricating oil		2,728	5,802	10,208	16,055	18,735	20,245	20,099
Asphalt		2,693	17,730	56,428	75,930	69,276	89,570	74,520
Canary Islands—								
Motor spirit	60,000	145,000	185,000	185,000	116,837	187,585	133,000	
Kerosene	15,000	20,000	20,000	30,000	15,747	37,287	35,000	
Gas oil	20,000	50,000	55,000	140,000	136,238	154,976	117,829	
Diesel oil	(a)	(a)	(a)	(a)	(a)	59,309	135,860	
Fuel oil	60,000	200,000	200,000	270,000	224,196	319,516	398,235	
Lubricating oil	(a)	(a)	(a)	(a)	(a)	6,171	2,120	
Asphalt	3,000	10,000	10,000	10,000	21,399	56,462	44,727	
Egypt—								
Motor spirit	180,805	193,225	195,215	191,524	209,694	191,247	205,122	
Kerosene	66,852	65,845	70,424	97,456	114,190	147,508	207,048	
Gas oil	803,010	749,567	759,505	1,313,572	1,600,504	37,866	39,949	
Diesel oil						76,303	73,115	
Fuel oil						1,602,609	1,574,585	
Asphalt						79,110	88,451	
Morocco (French)—								
Motor spirit	1,224	703	755	873	1,136	2,470	7,397	
Kerosene	158	71	181	—	—	3,381	7,743	
Gas and fuel oils	1,867	1,087	1,725	8,124	12,196	31,760	58,883	

(a) Information not available.

(b) Excluding the amounts used at the refineries.

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

Producing Country	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Cuba—							
Motor spirit	(a)	56,200	61,500	65,100	78,300	76,800	93,800
Turpentine substitute	(a)	1,000	—	(a)	(a)	(a)	(a)
Kerosene	(a)	27,500	34,700	38,200	50,000	64,500	71,300
Gas oil and diesel oil	(a)	58,800	62,800	59,400	64,900	56,200	69,100
Fuel oil	(a)	(a)	(a)	21,700	25,200	33,200	73,500
Lubricating oil	(a)	10,600	21,900	(a)	(a)	(a)	2,000
Asphalt	(a)	27,600	29,700	(a)	(a)	(a)	(a)
Mexico—							
Motor spirit	1,877,000	2,069,000	1,035,000	1,133,000	1,210,000	1,343,112	1,473,478
Kerosene	550,000	607,000	524,000	534,000	591,000	568,926	697,679
Fuel oil	3,439,000	3,757,000	3,829,000	3,704,000	4,105,000	3,969,772	4,346,142
Gas oil	685,000	768,000	756,000	696,000	752,000	713,108	766,833
Lubricating oil	49,000	46,000	33,000	38,000	31,000	26,265	35,529
Paraffin wax	27,800	26,400	13,200	11,500	10,600	11,900	10,500
Asphalt	174,000	360,000	263,000	149,000	150,500	126,400	74,100
NetherlandsWest Indies (b)—							
Aviation spirit	779,000	409,000	508,000	3,113,400	2,167,916	634,944	} 5,550,400
Motor spirit	3,131,000	4,194,000	4,295,000	2,676,500	3,221,279	4,754,851	
Kerosene	659,000	1,197,000	1,462,000	1,279,542	1,277,021	1,997,981	2,308,000
Gas oil	1,148,000	2,164,000	2,113,000	1,984,314	2,119,636	c 3,234,284	} 4,033,000
Diesel oil	1,642,000	1,943,000	2,317,000	3,630,522	2,710,883	d 1,402,462	
Fuel oil	19,771,000	19,632,000	22,245,000	24,752,339	23,348,490	25,565,943	26,733,000
Lubricating oil	61,000	194,000	132,000	237,133	303,969	232,620	272,000
Asphalt	169,000	114,000	211,000	73,379	203,510	323,394	(a)
United States—							
Aviation spirit	16,933,000	2,824,000	3,922,000	5,138,000	5,217,000	5,687,000	8,019,000
Motor spirit (b)	74,108,000	86,200,000	92,343,000	100,488,000	104,981,000	111,688,000	122,482,000
Kerosene	10,312,000	13,285,000	14,052,000	15,516,000	13,001,000	15,083,000	17,276,000
Gas oil and fuel oil distil- lates (e)	33,816,000	39,063,000	42,357,000	51,655,000	46,069,000	54,126,000	64,559,000
Residual fue oil	68,467,600	62,907,200	65,303,400	68,004,600	61,954,200	62,011,000	68,451,000
Lubricating oil	5,861,400	6,390,300	7,247,100	7,198,200	6,354,500	7,242,900	8,608,000
Paraffin wax	365,125	375,375	453,000	439,000	401,000	557,750	601,750
Coke	1,806,200	1,896,600	2,156,600	2,588,200	3,028,400	3,075,700	3,388,750
Asphalt	6,363,000	7,290,700	8,001,000	8,428,400	7,955,700	9,454,500	10,763,300
Road oil	427,000	928,000	1,125,000	1,259,000	1,224,600	1,102,200	970,500
Argentina—							
Aviation spirit	10,406	11,663	8,660	9,148	9,497	(a)	(a)
Motor spirit	748,721	954,872	1,076,561	1,202,311	1,201,300	1,480,400	1,387,800
Kerosene	291,920	427,600	445,600	(a)	(a)	578,000	661,700
Fuel oil	1,497,319	1,421,137	1,557,115	1,866,360	1,978,950	2,479,000	2,413,800
Gas oil	49,838	66,931	69,300	117,388	167,440	248,700	253,100
Diesel oil	207,109	276,203	284,797	378,722	385,470	501,400	537,900
Lubricating oil	82,192	76,120	86,856	100,480	96,260	98,000	98,000
Bolivia—							
Motor spirit	13,015	12,623	15,518	20,223	38,283	37,800	28,100
Kerosene	2,688	3,044	3,146	4,243	5,251	9,200	7,900
Fuel oil	17,467	10,354	11,836	12,932	25,741	24,000	10,500
Diesel oil	2,670	2,414	2,855	3,527	5,793	5,900	5,200
Brazil—							
Motor spirit	(a)	14,575	14,087	14,361	(a)	(a)	(a)
Other spirit	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Kerosene	(a)	6,950	4,843	3,910	(a)	(a)	(a)
Gas oil	(a)	2,831	1,414	(a)	(a)	(a)	(a)
Diesel oil	(a)	8,665	10,438	16,174	(a)	(a)	(a)
Fuel oil	(a)	13,363	14,150	19,361	(a)	(a)	(a)
Lubricating oil	(a)	404	529	382	(a)	(a)	(a)

(a) Information not available.

(b) Exports for the years 1948 to 1951.

(c) Includes some Diesel oil.

(d) Some Diesel oil is included with Gas oil.

(e) Revised.

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

Producing Country	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Colombia—							
Aviation spirit	(a)	(a)	11,600	7,700	11,539	9,527	9,691
Motor spirit	130,000	141,000	184,000	155,000	207,483	221,891	227,941
Other spirit	1,900	2,500	2,200	4,000	(a)	(a)	(a)
Kerosene	23,000	23,000	31,000	30,500	40,903	42,965	46,080
Gas oil	6,000	5,000	7,000	1,400	1,611	6,645	6,986
Fuel oil	451,000	484,000	760,000	686,000	889,592	894,050	932,060
Diesel oil	27,000	31,000	42,000	48,400	65,663	75,624	66,172
Lubricating oil	5,000	7,000	6,000	6,000	9,687	10,946	7,438
Asphalt	10,000	15,000	19,000	22,000	29,500	24,800	21,735
Ecuador—							
Motor spirit	33,000	33,365	45,300	51,020	59,030	62,797	65,500
Kerosene	9,000	9,792	11,600	11,900	13,890	15,515	16,800
Diesel oil	18,130	16,431	26,400	34,500	36,970	33,100	32,400
Residual fuel oil	68,000	83,600	85,000	81,200	97,400	100,743	108,400
Lubricating oil	280	340	(a)	(a)	(a)	600	—
Peru—							
Motor spirit	442,855	393,973	411,191	456,418	460,000	569,000	618,000
Kerosene	125,689	109,961	95,286	114,154	137,964	151,000	190,000
Diesel oil	426,482	409,171	440,430	160,953	188,672	188,000	215,000
Fuel oil	785,309	514,096	421,010	817,901	820,021	800,000	845,000
Lubricating oil	7,489	8,017	9,924	9,761	9,500	11,000	11,200
Coke	52	179	221	305	(a)	(a)	(a)
Asphalt	8,954	5,835	11,551	9,747	12,700	11,300	(a)
Uruguay—							
Motor spirit	60,312	91,184	93,245	140,316	118,632	147,831	172,686
Kerosene	34,526	53,709	62,145	87,807	92,492	104,699	118,915
Gas oil	26,137	30,432	32,834	42,870	44,368	51,813	55,140
Fuel oil	136,903	137,456	193,301	410,998	411,879	398,495	482,686
Venezuela—							
Motor spirit	347,000	443,000	450,000	463,694	703,166	1,641,826	2,119,639
Kerosene	63,000	72,000	92,000	88,957	348,147	327,482	448,032
Gas oil	8,000	246,000	6,000	7,900	240,300	767,700	890,443
Diesel oil	734,000	736,000	937,000	926,000	946,900	1,612,100	2,471,689
Fuel oil	3,335,000	3,304,000	3,563,000	4,547,834	4,999,954	7,471,212	9,125,781
Asphalt	—	—	25,000	38,000	46,000	105,000	147,000
Burma—							
Motor spirit	} (a)	} —	2,798	8,756	7,980	15,998	22,378
Kerosene			445	5,168	5,309	11,328	18,000
Diesel oil			189	4,742	5,236	10,879	22,451
Fuel oil			7,338	18,573	13,330	22,637	31,313
Indonesia—							
Aviation spirit	(a)	(a)	(a)	(a)	(a)	153,460	228,245
Motor spirit	(a)	(a)	339,000	(a)	(a)	1,967,464	2,139,537
Kerosene	(a)	(a)	205,000	(a)	(a)	865,291	1,015,120
Fuel oil, solar oil and diesel oil	(a)	(a)	981,000	(a)	(a)	3,981,656	4,623,965
Paraffin wax	(a)	(a)	(a)	(a)	(a)	43,745	90,599
Asphalt	(a)	(a)	10,700	(a)	(a)	27,226	27,033
Iran—							
Motor spirit, etc.	3,320,200	3,211,700	3,251,300	3,822,800	4,202,000	4,324,800	b 2,169,900
Kerosene, etc.	1,130,000	1,825,900	1,663,500	1,867,500	2,210,100	2,337,700	b 1,240,300
Gas, diesel and fuel oils	10,805,100	11,768,400	12,087,300	13,778,200	15,310,800	16,147,400	b 8,116,900
Other products	175,900	94,200	171,000	223,400	221,100	242,900	(b) 112,800
Iraq—							
Motor spirit	41,200	46,800	59,600	69,600	66,000	68,600	78,900
Kerosene	49,300	56,400	61,600	67,100	73,500	79,500	86,500
Gas, diesel and fuel oils	182,700	194,800	215,000	224,300	217,000	229,400	257,600

(a) Information not available.

(b) Anglo-Iranian Oil Co. only.

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

Producing Country	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Japan—							
Aviation spirit	1,040	—	—	—	—	—	—
Motor spirit	31,339	21,498	19,006	14,687	18,686	292,678	574,927
Kerosene	31,101	20,139	20,407	23,373	20,791	60,915	99,416
Gas oil	13,950	7,259	9,412	8,153	12,731	95,811	259,757
Diesel oil	75,108	62,167	34,997	22,561	20,736	188,966	368,713
Fuel oil	21,591	9,987	594	25,913	25,418	537,829	848,115
Lubricating oils	49,584	42,805	35,541	35,214	38,983	138,669	270,886
Lebanon—							
Motor spirit	44,076	46,110	48,754	52,031	60,611	93,860	115,655
Kerosene	23,636	26,833	26,997	27,481	32,941	60,249	61,862
Gas oil	28,000	29,180	32,879	35,818	44,632	84,249	98,691
Fuel oil	116,853	118,091	128,785	136,404	144,255	234,844	262,042
Saudi Arabia—							
Motor spirit	(a)	(a)	(a)	(a)	1,252,555	940,129	1,393,748
Kerosene						319,948	595,041
Diesel oil						1,632,503	3,334,787
Fuel oil						2,686,132	3,557,106
Asphalt						—	27,970

(a) Information not available.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS*

(Domestic Produce)

(Long tons)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Aviation spirit (bunkers) (b)	429	14,740	37,944	46,309	54,020	63,446	73,574
Motor spirit	1,613	6,271	78,340	20,607	53,710	95,660	115,902
Other spirit	1,148	7,765	1,818	2,042	4,021	11,929	38,667
Kerosene	58	500	4,039	2,089	17,183	28,601	38,343
Gas oil	—	8,329	44,600	16,137	33,945	72,897	147,700
Diesel oil	(c)	18	9	1	20,540	144,536	309,007
Fuel oil	1,016	1,417	46,266	22,832	146,163	609,167	2,354,980
do. (bunkers) (b)	1,739,963	1,683,192	1,957,462	1,983,254	2,031,746	2,228,369	2,964,322
Lubricating oil	16,362	135,623	116,770	114,574	123,264	126,752	175,500
Other refined oils	133	1,288	2,267	3,297	2,485	5,319	12,262
Mineral jelly	40	474	113	112	218	267	326
Paraffin wax	933	577	3,536	2,655	1,654	2,783	709
Malta—							
Aviation spirit (bunkers) (b)	(a)	—	—	10,683	12,528	14,664	3,852
Gas oil (bunkers) (b)	(a)	367	2,272	980	2,712	2,000	2,138
Fuel oil (bunkers) (b)	(a)	4,751	11,119	11,236	8,919	9,530	9,559
Anglo-Egyptian Sudan—							
Motor spirit (bunkers) (b)	—	—	—	5,529	8,146	6,862	(a)
Gold Coast (b)—							
Aviation spirit (bunkers)	} 214	} 19	} 1,604	2,557	2,576	1,923	2,108
Motor spirit (bunkers)				101	1	3	1
Gas oil (bunkers)	(a)	(a)	(a)	733	891	1,207	1,201
Fuel oil (bunkers)	14,796	14,491	12,057	20,084	14,298	28,031	28,059
Kenya (d)—							
Bunkers (b)—							
Aviation spirit	} 358	} 1,121	} 4,060	5,853	4,184	5,199	7,129
Motor spirit				341	16	11	19
Fuel oil	29,387	101,350	84,728	128,299	142,754	135,478	121,764
Lubricating oil	94	98	136	243	227	258	289
Mauritius—							
Fuel oil (bunkers) (b)	(a)	(a)	(a)	(a)	871	4,141	4,836
Nigeria (bunkers)—							
Diesel oil (b)	—	—	—	44	91	3	1,064
Gas oil (b)	} 639	} 819	} 2,470	241	2,410	743	1,526
Fuel oil (b)				2,945	10,991	3,115	9,958
Sierra Leone (bunkers)—							
Aviation spirit (b)	—	—	—	—	—	248	—
Fuel oil (b)	—	—	—	—	885	412	66
Tanganyika (b)—							
Aviation spirit (bunkers)	—	—	—	1,376	610	897	503
Fuel oil (bunkers)	—	—	10	19	9	119	668
Uganda (b)—							
Aviation spirit (bunkers)	(e)	(e)	(e)	(e)	1,807	1,568	724
Union of South Africa—							
Bunkers (b)—							
Motor spirit	710	260	2,656	4,564	3,994	(a)	(a)
Diesel oil	} 224,504	} 49,106	} 80,169	87,263	115,299	(a)	(a)
Fuel oil				180,360	195,961	318,661	343,725	(a)	(a)
Asphalt and bitumen	105	68	955	3,618	3,295	2,871	(a)
Canada (f)—							
Crude petroleum	—	—	35	98	—	—	48,826
Motor spirit	186,311	33,052	23,300	28,762	6,621	406	698

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

(a) Information not available.

(c) Included with Fuel oil.

(d) Including Uganda up to 1948 inclusive.

(e) Included with Kenya.

(f) Including Newfoundland from April 1, 1949.

(b) Foreign produce. See imports.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES (Cont.)							
Canada (Cont.)—							
Kerosene, etc.	24,015	10,837	342	1,222	610	538	22
Fuel oil	135,899	84,490	113,028	264,962	105,273	2,668	897
do. (bunkers)	} 1,206,000	906,000	1,057,000	{ 925,936	943,150	863,645	(a)
Diesel oil (bunkers)							
Lubricating oil	3,788	17,895	12,049	3,668	496	255	425
Other oils	575	848	1,605	3,008	1,673	1,675	277
Mineral wax	817	5,676	19,413	14,588	2,278	336	4,732
Petroleum coke	19,875	13,018	24,480	29,041	19,322	60,985	51,462
Newfoundland (f)—							
Fuel oil (bunkers) (c)	38,166	20,257	27,816	74,289	(f)	(f)	(f)
British Guiana (b)—							
Aviation spirit (bunkers)	48	49	297	333	278	309	371
British West Indies—							
Barbados—							
Manjak	9	—	—	—	—	—	—
Bermuda—							
Bunkers (b) (d)—							
Aviation spirit	} (a)	(a)	(a)	{ 11,438	18,425	20,136	(a)
Motor spirit							
Kerosene							
Fuel oil							
Diesel oil							
Lubricating oil	281	217	189	370	337	(a)	
Aviation spirit	386	370	337	370	337	(a)	
Motor spirit	13,408	3,158	4,022	13,408	3,158	4,022	(a)
Kerosene	2,497	5,089	479	2,497	5,089	479	(a)
Fuel oil	22	13	4	22	13	4	(a)
Diesel oil							
Lubricating oil							
Jamaica—							
Bunkers (b)—							
Aviation spirit	2,863	3,015	1,348	(a)	(a)	(a)	(a)
Motor spirit	—	9	24	4	(a)	(a)	(a)
Gas oil (c)	7,617	24	—	(a)	674	(a)	(a)
Diesel oil (c)	12,242	16,030	1,477	4,384	2,393	10,123	6,238
Fuel oil (c)	11,883	19	5,550	26,496	42,554	75,221	52,658
Trinidad and Tobago—							
Crude petroleum	23	12,869	125,911	298,525	280,803	335,043	268,799
Motor spirit (g)	152,997	538,807	613,369	614,410	634,125	633,471	739,599
do. (bunkers) (g)	423,173	4,865	6,952	7,403	8,129	8,287	10,745
Kerosene	84,632	387,460	233,849	216,124	238,164	227,705	385,728
do. (bunkers)	97,578	67	137	178	181	199	125
Gas and diesel oil	15,157	101,241	106,479	220,390	276,978	284,142	458,333
do. (bunkers)	89,963	28,139	42,450	57,685	42,190	27,396	178,200
Fuel oil	179,829	507,693	777,339	1,135,084	1,373,827	1,337,684	1,404,939
do. (bunkers)	1,769,335	1,175,161	1,212,682	1,028,550	1,177,823	1,084,217	1,192,228
Lubricating oil	10	46	248	115	131	65	102
Road oil	5,427	9,302	7,479	9,096	11,938	16,927	22,739
Asphalt—							
Crude	536	—	41	16	27	—	38
Dried	9,990	26,563	32,364	41,988	47,962	46,659	45,557
Asphalt cement	6,551	23,241	24,295	49,369	29,393	23,433	39,473
Bituminous asphalt	11,351	40,451	26,351	60,896	45,480	62,304	73,516
Falkland Islands—							
Fuel oil (bunkers) (b)	—	4,001	10,772	2,305	1,000	19,281	17,772
Aden—							
Fuel oil (bunkers) (b)	404,301	694,861	960,132	1,575,539	2,138,491	2,720,861	2,243,935
Bahrain Islands (e)—							
Aviation spirit	36,012	46,838	5,407	12,699	14,207	19,555	24,795
Motor spirit	576,148	893,762	1,193,854	1,448,023	1,562,756	1,704,725	1,963,355
Kerosene	288,532	507,404	697,114	674,490	595,288	669,190	811,855
Diesel oil	571,081	860,019	968,496	1,191,181	1,180,995	1,277,940	1,259,165
Fuel oil (incl. bunkers)	833,048	1,798,609	2,756,799	3,231,716	3,400,630	2,903,215	3,823,700
Asphalt	—	—	—	14,411	42,639	66,690	66,530

(a) Information not available.

(b) Foreign produce. See imports.

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

(d) Including bunkers for military forces.

(e) British Protected State.

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

(g) Including aviation spirit.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951	
BRITISH COUNTRIES (Cont.)								
British Borneo—								
Brunei—								
Crude petroleum (g) ..	(a)	184,407	1,689,963	2,641,516	3,200,400	4,011,463	4,895,559	
Natural gas (1,000 cubic feet)	(a)	(a)	893,344	1,260,126	1,663,516	1,822,776	1,744,904	
Sarawak—								
Crude petroleum (b) ..	(a)	{ (c) 219,418	706,675	1,169,665	1,768,681	2,356,997	3,206,152	
Motor spirit			(c) —	48,879	122,699	160,136	228,295	234,642
Kerosene			(c) 26	25,351	—	—	189	218
Diesel oil etc.			(c) —	854,841	1,307,533	1,340,139	1,415,875	1,426,524
do. (bunkers)			(c) —	36,527	31,812	43,678	54,569	80,280
Lubricating oil	(c) —	—	1	—	—	—	—	
Ceylon (bunkers) (d)—								
Gas oil	—	—	—	55	333	1,311	2,231	
Diesel oil	70,414	54,524	52,096	65,114	83,531	78,849	71,145	
Fuel oil	557,121	239,560	247,564	314,897	449,761	479,298	513,746	
Lubricating oil	218	128	96	158	233	173	200	
Hong Kong (re-exports)—								
Motor spirit	(a)	{ 49,338	74,506	57,333	55,968	52,503	15,283	
Kerosene			79,174	54,143	41,372	37,912	26,299	7,556
Fuel oil and gas oil ..			2,401	1,721	} 63,316	74,662	55,297	13,213
Diesel oil			24,154	55,020		(a)	(a)	(a)	(a)
Lubricating oil			6,022	7,244	(a)	(a)	(a)	(a)
Greases			109	114	(a)	(a)	(a)	(a)
Petroleum jelly			1,386	319	484	1,203	1,217	627
Paraffin wax	1,055	1,891	3,863	6,997	9,308	2,559		
India—								
Aviation spirit (bunkers)								
Domestic produce ..	—	—	—	—	—	247	2,941	
Foreign produce ..	7,376	11,336	17,703	6,622	8,972	11,417	6,117	
Motor spirit (e)	—	290	—	—	—	—	—	
Fuel oil (bunkers) (d) ..	203,032	198,808	95,518	22,412	22,897	40,231	32,790	
Paraffin wax	14,128	16,409	15,850	11,973	13,232	19,816	28,708	
Kuwait (f)—								
Crude petroleum	—	768,441	2,113,646	6,224,815	12,010,102	15,797,037	26,623,054	
Export distillate	—	—	—	—	11,344	161,887	177,990	
Diesel oil	—	—	—	—	—	24,940	30,495	
Fuel oil	—	—	—	—	—	108,378	167,892	
Malaya (including re-exports)—								
Aviation spirit	(a)	{ (a)	(a)	115,657	111,436	80,945	126,726	
do. do. (bunkers)			(a) 6	5,805	6,926	9,221	10,916	12,699
Motor spirit			102,815	136,379	182,567	300,993	514,384	604,438
Kerosene			90,320	50,088	105,890	89,978	113,366	143,776
do. Power			(a)	(a)	13,787	32,662	52,533	126,859
Gas oil			(a)	(a)	50,946	72,830	157,814	234,463
Diesel oil			(a)	(a)	219,404	328,364	445,221	304,692
Fuel oil			101,038	236,902	274,268	609,044	577,081	377,922
do. (bunkers)			(a)	278,250	349,055	469,891	595,500	900,256
Lubricating oil			1,714	5,249	7,023	4,778	4,191	4,655
Other petroleum products			6	33	23	65	131	973
Paraffin wax			81	23	151	356	361	3,741
Asphalt and bitumen ..			424	403	1,485	1,307	1,225	1,154
Palestine—								
Motor spirit	255,246	380,318	(a)	(a)	(a)	(a)	(a)	
Kerosene	199,500	265,060	(a)	(a)	(a)	(a)	(a)	
Fuel oil, gas oil and diesel oil	900,062	1,616,769	(a)	(a)	(a)	(a)	(a)	
Asphalt	9,229	21,955	(a)	(a)	(a)	(a)	(a)	

(a) Information not available.

(c) April 15 to December 31 only.

(e) Includes trade by land as recorded.

(g) Exported to Sarawak for refining.

(b) Including crude petroleum imported from Brunei

(d) Foreign produce. See imports.

(f) British Protected State.

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

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES (Cont.)							
Australia—							
Crude petroleum ..	16	13	1,948	—	7	—	—
Aviation spirit (bunkers) (f) (e) ..	(a)	959	1,902	3,265	4,095	4,283	(a)
Motor spirit, etc. ..	3,210	1,435	690	2,233	(f) 1,309	(f) 1,399	4,315
Kerosene ..	265	512	1,163	208	1,912	4,978	3,633
Lubricating oil ..	184	643	2,214	203	2,249	2,551	4,038
Residual and solar oils ..	17	77	471	1,364	5,180	7,640	7,967
Fuel oil (bunkers) (f)—							
Domestic produce ..	19,472	8,804	58,562	32,974	52,598	39,231	(a)
Foreign produce ..	777,889	681,117	306,569	309,824	385,298	360,408	(a)
Paraffin wax, etc. ..	57	198	82	11	7	6	3
Fiji—							
Aviation spirit (bunkers) (e)	(a)	221	2,652	3,371	3,751	3,781	3,355
Fuel oil (bunkers) (e) ..	3,872	6,370	3,795	5,334	6,138	548	627
Diesel oil (bunkers) (e) ..				979	1,791	627	2,709
New Zealand—							
Fuel oil (bunkers) (d) ..	(e) 38,184	(e) 39,102	(a)	42,867	21,709	33,100	39,136
Lubricating oil (bunkers) (e)	441	401	(a)	325	687	723	623
FOREIGN COUNTRIES							
Austria—							
Crude petroleum ..	(a)	(a)	5 015	527	—	—	—
Kerosene ..			—	993	9,932	—	—
Gas oil ..			204	1,980	15,367	7,736	2,669
Fuel oil ..			—	18,123	11,554	39,565	16,703
Lubricating oil, etc. ..			—	496	—	282	3,249
Belgium-Luxemburg E.U.—							
Crude petroleum ..	(a)	(a)	(a)	6,328	154	—	16,275
Motor spirit ..	(a)	(a)	(a)	5,019	6,741	31,473	31,017
Kerosene ..	(a)	(a)	(a)	45	58	1,937	1,340
Gas oil ..	(a)	(a)	763,411	660,840	70,331	37,594	26,475
do. (bunkers) (b) ..					17,710	20,888	23,388
Fuel oil, etc. ..					33,416	14,593	121,671
do. (bunkers) (b) ..					234,800	200,692	416,856
Lubricating oil ..					48,723	59,649	62,299
do. (bunkers) (b) ..	3,739	2,690	3,624				
Other heavy oils ..	1,087	31	128				
Petroleum jelly ..	76	117	229				
Paraffin wax ..	264	93	83				
Ozokerite and ceresin ..	236	291	135				
Asphalt and bitumen ..	—	(a)	(a)				
Residual asphalt, etc. ..	236	129	(a)				
Pitch ..	(a)	(a)	(a)				
Czechoslovakia—							
Lubricating oil, etc. ..	(a)	1,252	1,261	(c) 166	(a)	(a)	(a)
Paraffin wax ..		2	52	(c) 62	(a)	(a)	(a)
Asphalt products ..		1,006	404	(c) 414	(a)	(a)	(a)
France—							
Crude petroleum ..	—	1	84	3,441	11,223	8,620	7,361
Motor spirit ..	505	107,054	184,600	198,493	542,710	609,744	716,966
Kerosene ..	—	3,852	46,751	48,361	76,068	87,672	135,654
Lubricating oil ..	73	4,507	10,799	3,423	7,838	24,346	37,594
Gas oil ..	603	31,866	61,179	188,284	806,350	1,332,154	1,384,464
Fuel oil ..	15,462	180,335	250,140	439,393	747,324	1,101,330	2,374,421
Road oil, etc. ..	—	8,082	21,578	(a)	(a)	(a)	(a)
Petroleum jelly ..	—	22	42	29	24	73	55
Paraffin wax ..	18	75	372	14	442	2,411	907
Ozokerite, ceresin, etc. ..	2	15	19	20	33	7	75
Petroleum coke, etc. ..	—	624	1,567	148	25	171	1,239
Asphalt and bitumen ..	411	788	2,610	2,743	4,336	12,144	11,429

(a) Information not available.

(b) Bunkers for foreign ships only.

(c) January to October only.

(d) Foreign produce. Excluded from imports.

(e) Foreign produce. See imports.

(f) Years ended June 30 of that stated.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Germany (Federal)—							
Crude petroleum		(e) —	(e) 39,000	(e) 280,000	—	1	—
Motor spirit		(e) 260,000	(e) 359,000	(e) 448,000	6	202	79,116
Kerosene					—	—	241
Gas oil					1,131	154	27
Fuel oil (incl. (b))	(a)				84,225	96,220	95,333
Lubricating oil		(a)	(a)		90	3,776	6,706
Paraffin wax					6	1,393	3,521
Ozokerite, etc.				60	425	1,376	1,365
Asphalt				249	4,002	1,028	904
Hungary—							
Crude petroleum		34,857					
Kerosene		40,473					
Gas oil	(a)	29,889	236,700	(a)	(a)	(a)	(a)
Fuel oil		29,458					
Lubricating oil		65,962					
Italy—							
Motor spirit			103	2,900	100,039	242,432	430,841
Kerosene			3	4,612	61,217	111,806	174,601
Lubricating oil			6	8	33	6	735
Gas oil	(a)	(a)	1,642	3,498	75,003	157,146	370,500
Fuel oil (d)			629	3,526	37,128	294,209	371,570
Paraffin wax			1	10	8	5	—
Asphalt and bitumen			836	4,838	6,385	15,604	8,342
Pitch		(a)	(a)	(a)	(a)	(a)	9,760
Netherlands—							
Crude petroleum		4	1	—	—	—	17
Aviation spirit (bunkers)	(a)	(a)	(a)	19,651	24,720	24,364	28,820
Motor spirit		1,231	23	68,273	238,831	605,175	1,039,301
Kerosene		3	1	—	—	13,398	55,418
Gas oil		168	3,290	30,437	235,914	599,767	717,037
do. (bunkers) (c)		48,596	98,521	124,406	188,500	257,769	319,874
Fuel oil			10,235	94,471	546,972	1,500,996	1,219,354
do. (bunkers) (c)	(a)	78,443	312,056	320,681	384,558	537,757	908,138
Lubricating oil		95	610	7,890	20,248	55,036	62,985
Greases		6	34	(a)	(a)	6,235	7,178
Petroleum jelly		15	122	590	311	1,624	2,453
Paraffin wax		48	66	268	634	4,518	2,588
Ozokerite and ceresin		221	346	2,203	1,789	1,533	830
Asphalt		35,235	59,144	59,660	59,381	96,506	129,518
Natural asphalt		—	—	25	—	397	—
Petroleum coke	(a)	—	1,149	3,868	798	644	98
do. (bunkers)		—	24,965	36,309	18,950	15,773	3,576
Norway—							
Motor spirit	3	31	94	124	69	61	(a)
Kerosene	4	5	11	17	24	30	(a)
Fuel oil and solar oil	96	570	2,668	26,629	1,440	84	(a)
Residual oils, etc.	23	34	90	82	37	(a)	(a)
Portugal—							
Motor spirit	4	9	15	6	—	550	307
Kerosene	7	12	8	4	28	137	58
Fuel oil (bunkers) (b)	241	342	604	5,965	2,238	50	(a)
Lubricating oil, etc.	172	65	191	215	73	203	494
Other oils	19	12	4	4	4	2	(a)
Roumania—							
Crude petroleum	20,703	5,835	(a)	(a)	(a)	(a)	(a)
Motor spirit	1,252,641	1,051,462	876,755	(a)	(a)	(a)	(a)
Kerosene	344,440	326,466	270,925	(a)	(a)	(a)	(a)
Fuel oil and gas oil (d)	1,433,847	785,195	626,667	(a)	(a)	(a)	(a)
Other oils	55,231	57,889	55,998	(a)	(a)	(a)	(a)
Paraffin wax	1,973	3,231	5,912	(a)	(a)	(a)	(a)
Asphalt	12,978	5,112	6,820	(a)	(a)	(a)	(a)
Petroleum coke	—	10	—	(a)	(a)	(a)	(a)

(a) Information not available.

(c) Including imported oil.

(e) Bizonal area.

(b) Bunkers on foreign ships only.

(d) Including bunkers.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Spain—							
Motor spirit	37,831	5,008	3	65	227	151	114
Kerosene.. .. .	3	5	8	—	4	—	—
Diesel oil	42	—	5	—	—	144	—
Lubricating oil	78	14	98	110	33	99	5
Asphalt	296	252	57	41	—	—	—
Sweden—							
Motor spirit	13	3,084	119	481	13,757	18,579	636
Kerosene.. .. .	1	9	129	—	1	1,335	21
Fuel oil and gas oil	1,113	12,250	20,016	—	2	17,126	9,895
Lubricating oil	119	994	338	300	465	342	381
Other oils	—	403	1,178	668	—	7	139
Paraffin wax	4	66	—	—	—	42	13
Petroleum jelly	15	22	25	—	—	—	10
Ozokerite and ceresin	1	50	19	—	—	15	10
Asphalt	275	69	182	76	1,470	113	117
Pitch	44	1,393	2,710	4,107	13,229	23,214	11,956
Switzerland—							
Motor spirit	1	83	407	1,025	106	3,381	3,093
Fuel oil	—	1	—	—	—	—	—
Lubricating oil and grease	3	63	221	275	123	102	69
Petroleum jelly	—	67	34	12	16	2	36
Asphalt and bitumen ..	5	238	702	2,961	3,378	3,013	3,091
Paraffin wax and ceresin	—	2	88	72	239	14	8
Yugoslavia—							
Kerosene.. .. .	}	(a)	(a)	(a)	(a)	}	2,963
Gas oil							10
Fuel oil							22,568
Bitumen							—
Algeria—							
Crude petroleum	(a)	(a)	—	—	—	1,472	6,557
Motor spirit, etc.	134	379	604	44	107	5	11
Kerosene.. .. .	10	2	6	3	5	4	6
Gas oil	149	46	16	4	2	13	2
Fuel oil	—	147	6	133	5	6	70
Fuel oil and gas oil (b) ..	3,806	45,214	271,240	393,981	400,786	(a)	(a)
Lubricating oil	3	9	95	12	24	23	202
Bitumen	1	—	—	269	10	1,639	(a)
Canary Islands (c)—							
Petroleum products ..	26,625	127,962	272,628	272,102	386,380	461,144	400,873
do. (bunkers)	8,767	283,107	658,798	1,267,542	1,386,538	1,520,175	1,445,003
Ceuta (c)—							
Petroleum products ..	2	22	52	812	—	—	312
do. (bunkers)	100	11,054	53,762	133,414	214,400	69,205	380,081
Egypt—							
Motor spirit	35	—	12	59	760	927	(a)
Kerosene.. .. .	3	2	1	1	1	52	(a)
Fuel oil, etc.	—	14	—	—	—	—	—
do. (bunkers for foreign ships)	148,742	261,258	115,908	283,176	419,546	} 326,893	} 303,401
Lubricating oil	—	—	—	998	2,078		
Asphalt, etc.	54,422	161,335	82,272	44,387	24,342	63	(a)
Melilla—							
Petroleum products ..	1,285	1,031	1,067	83	(a)	—	—
Morocco (French)—							
Crude, refined and residual	185	93	731	(a)	(a)	(a)	(a)
Cuba (including re-exports)—							
Natural asphalt	173	(a)	(a)	292	27	—	(a)
Mexico—							
Crude petroleum	354,627	430,001	449,278	1,558,805	854,230	1,673,450	1,024,152
Motor spirit	1,215	1,077	14,997	226,030	5,641	54,775	30,745

(a) Information not available.

(b) Bunkers of foreign produce

(c) Foreign produce. See imports.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Mexico (Cont.)—							
Kerosene	146,291	102,872	65,040	204,271	59,739	125,803	78,883
Fuel oil	527,044	597,935	349,581	809,252	277,736	343,686	1,348,775
do. (bunkers)		17,364	52,541	142,513	215,646	307,542	
Gas oil	70,538	115,924	43,109	159,428	65,982	76,018	57,463
Lubricating oil	59	157	172	151	462	845	(a)
Asphalt (petroleum)	—	29,679	4,685	17,035	76	75	(a)
Natural asphalt	2,085	429	—	(a)	(a)	(a)	(a)
Netherlands West Indies—							
Crude petroleum	45,841	684,989	1,857,048	1,831,544	794,005	956,237	469,300
Aviation spirit	2,336,076	2,503,415	2,575,183	3,113,400	2,167,916	634,944	(a)
Motor spirit	1,577,029	2,173,681	2,246,914	2,676,540	3,221,279	4,754,851	5,550,300
Kerosene	700,502	895,677	855,198	1,279,542	1,277,021	1,997,981	2,307,800
Gas oil	690,244	1,438,569	1,876,765	1,887,831	2,074,930	4,636,746	4,032,500
do. (bunkers)	51,844	42,064	40,658	96,483	44,706		
Diesel oil	1,399,557	1,969,486	1,958,583	2,730,150	1,992,272	25,565,943	26,733,000
do. (bunkers)	360,071	2,622,108	823,809	900,372	718,611		
Fuel oil	19,471,771	18,879,251	20,764,950	21,498,212	21,071,597	232,620	272,000
do. (bunkers)	1,544,955	2,000,160	2,441,952	3,254,127	2,276,893		
Lubricating oil	62,132	82,805	40,625	237,133	303,969	323,394	(a)
Asphalt	108,081	71,292	87,293	73,379	203,510		
United States—							
Crude petroleum	5,050,432	6,081,946	6,551,731	5,676,652	4,724,037	4,974,820	4,086,210
Aviation spirit	3,606,046	178,325	396,702	566,001	841,073	595,754	1,149,964
Motor spirit	5,700,249	4,181,634	3,766,271	2,496,977	2,358,004	1,287,573	2,255,152
Other finished light products	184,026	50,858	91,620	163,976	122,905	113,661	164,110
Natural gasoline	100,853	351,870	554,447	466,597	500,729	114,591	188,303
Kerosene	753,893	1,041,576	851,977	372,059	231,820	166,796	763,270
Gas oil and distillate fuel oil	4,436,321	3,814,817	3,644,364	2,600,532	1,347,674	1,470,024	2,787,503
Residual fuel oil	1,043,388	847,812	1,203,327	1,362,498	1,246,596	1,733,237	3,517,972
Fuel oil (bunkers)	11,523,988	8,749,096	(a)	(a)	(a)	(a)	(a)
Lubricating oil	891,090	1,511,844	1,948,399	1,769,820	1,698,425	1,882,764	2,288,350
Transformer oil	14,181	17,359	26,070	21,337	27,202	23,539	34,353
Greases	29,135	43,754	79,800	52,360	52,382	51,000	59,330
Paraffin wax	70,671	89,609	138,487	124,242	128,837	139,049	155,358
Petroleum jelly	20,814	41,827	41,618	28,428	29,275	33,487	49,746
Asphalt and bitumen, natural	42,048	17,345	21,341	12,216	14,885	16,801	22,248
Other asphalt, etc.	189,556	352,626	496,383	241,034	209,336	127,883	163,612
Petroleum coke	186,764	344,630	369,565	447,549	436,004	436,539	790,202
Liquefied petroleum gases	52,351	98,620	106,940	91,447	107,243	136,130	175,269
Natural gas (million cu. ft.)	13,247	13,337	8,035	5,645	5,170	23,474	19,573
Argentina—							
Motor spirit	3,719	1,125	}	(a)	(a)	(a)	(a)
Kerosene	755	362					
Gas oil	51	123	}	(a)	(a)	(a)	(a)
Fuel oil	7,703	1,780					
Diesel oil	2,347	497	}	(a)	(a)	(a)	(a)
Lubricating oil	602	689					
Grease	5	3	}	(a)	(a)	(a)	(a)
Asphalt	89	524					
Bitumen (Rafaelite)	1,151	3,298	}	(a)	(a)	(a)	(a)
Bolivia—							
Crude petroleum	19,803	14,926	14,887	14,182	(a)	(a)	(a)
Fuel oil	(a)	2,810	253	275	(a)	(a)	(a)
Chile—							
Crude petroleum	—	—	—	—	—	55,000	94,000
Colombia—							
Crude petroleum	2,683,785	2,446,810	2,799,386	2,690,231	3,452,409	4,038,410	4,605,281
Motor spirit	5	26	}	(a)	(a)	(a)	(a)
Kerosene	2	2					
Fuel oil, etc.	31,803	67	}	(a)	(a)	(a)	(a)
Ecuador—							
Crude petroleum	251,350	178,272	133,874	199,493	130,816	(a)	(a)

(a) Information not available.

EXPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Peru—							
Crude petroleum ..	26,691	170,277	281,143	246,033	311,188	368,078	(a)
Motor spirit (b) ..	406,838	363,341	305,238	296,053	348,550	290,307	(a)
Kerosene (b) ..	87,584	63,008	30,545	32,325	40,447	34,170	(a)
Gas oil ..	(a)	(a)	(a)	—	87,516	—	(a)
Fuel oil and Diesel oil ..	574,884	373,207	306,159	331,615	287,024	237,349	(a)
do. (bunkers)	105,691	65,989						58,749
Lubricating oil and grease	1,610	2,057	2,520	2,516	1,757	1,402	(a)
Uruguay—							
Motor spirit ..	(a)	(a)	(a)	13,000	11,000	(a)	(a)
Kerosene ..	(a)	(a)	(a)	600	1,300	(a)	(a)
Gas oil and diesel oil ..	(a)	(a)	(a)	21,000	23,000	(a)	(a)
Fuel oil ..	(a)	(a)	(a)	156,000	305,000	(a)	(a)
Venezuela—							
Crude petroleum ..	40,995,580	49,357,769	55,500,266	61,691,749	60,406,000	64,636,000	71,853,000
Motor spirit ..	68,596	231,314	161,660	57,609	208,000	970,000	1,277,000
Kerosene ..	12	29	25	(a)	26,000	11,500	187,000
Gas oil ..	87,838	273,838	299,090	213,451	105,800	396,000	807,000
Fuel oil ..	2,982,417	2,855,964	3,110,113	3,962,141	4,277,030	6,865,396	7,878,000
Diesel oil ..	391,184	538,332	455,868	466,480	692,000	1,170,586	1,656,000
Indonesia—							
Crude petroleum ..	(a)	(a)	(a)	9,714	300	7,942	(a)
Motor spirit ..			1,607	118,600	992,164	1,725,900	1,735,264	1,780,896
Kerosene ..	(a)	(a)	98,200	399,636	554,300	540,527	571,459
Fuel and motor oils do. (bunkers) ..			(a)	(a)	2,387,200	3,321,900	61,898	(a)
Lubricating oil ..	(a)	(a)					
Greases ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Paraffin wax ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Asphalt ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Turpene ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Iran—							
Crude petroleum ..	86,800	1,203,400	1,732,500	3,255,200	3,206,200	6,501,300	(c) 3,353,700
Motor spirit ..	2,992,600	3,198,400	2,935,600	3,655,500	3,964,800	4,080,900	(c) 1,799,300
Kerosene ..	1,117,300	1,917,600	1,698,900	1,851,000	2,117,200	2,283,500	(c) 1,085,400
Gas, diesel and fuel oils	9,865,300	11,179,900	10,869,900	13,480,100	14,769,500	15,767,300	(c) 7,458,100
Other products ..	137,300	71,600	136,000	185,700	195,600	202,400	(c) 89,000
Iraq—							
Crude petroleum ..	4,279,652	4,344,030	4,305,266	3,010,965	3,662,438	6,046,527	7,838,292
Motor spirit ..	820	(a)	(a)	(a)	(a)	(a)	(a)
Kerosene ..	283	(a)	(a)	(a)	(a)	(a)	(a)
Bitumen ..	5	(a)	(a)	(a)	(a)	(a)	(a)
Saudi Arabia—							
Crude petroleum ..	2,412,000	4,343,000	7,192,000	(a)	(a)	(a)	(a)
Syria and Lebanon—							
Fuel oil ..	29,216	14	(a)	2,770	437	(a)	(a)
Asphalt and bitumen ..	272	597	(a)	—	1,444	(a)	(a)

(a) Information not available.

(b) Including bunkers.

(c) Anglo-Iranian Oil Co. only.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS*

(Less Re-exports)

(Long tons)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Crude petroleum ..	955,976	2,174,292	2,473,558	4,635,474	6,048,182	9,246,108	16,680,733
Aviation spirit (d) ..	2,074,557	106,727	54,322	276,615	372,391	243,217	356,447
Motor spirit ..	4,887,750	3,753,370	3,798,140	3,622,017	4,046,823	3,677,648	2,959,396
Other spirit ..	158,326	102,787	84,521	104,525	107,653	104,198	180,478
Kerosene—Power ..	1,239,212	1,445,255	709,252	888,667	919,341	811,970	839,740
do. —Other ..			469,673	590,867	653,656	601,391	978,692
Fuel oil (d) ..	3,355,958	3,565,113	2,930,924	5,112,805	2,947,351	2,162,309	2,152,689
Diesel oil ..	780,040	768,707	231,739	301,747	310,412	232,436	246,703
Gas oil ..	1,817,540	1,831,726	1,595,384	1,801,342	1,723,225	1,375,485	1,472,134
Lubricating oil ..	309,373	339,332	333,012	347,348	291,833	479,861	447,556
Mineral jelly ..	7,624	5,788	9,684	9,723	8,060	8,822	10,595
Paraffin wax ..						29,581	58,310
Other petroleum wax ..	33,371	33,066	38,256	36,014	18,096	5,086	6,428
Ozokerite ..	—	24	178	329	17	94	12
Petroleum coke ..	(a)	(a)	6,958	7,222	13,069	9,131	9,449
Asphalt and bitumen (f) ..	9,148	26,182	30,504	44,007	48,909	54,365	56,924
Malta—							
Aviation spirit (d) ..	(a)	—	—	19,913	22,945	13,026	13,549
Motor spirit ..	2,938	19,154	13,049	8,202	16,087	13,067	15,325
Kerosene ..	20,175	21,685	5,266	25,590	28,915	16,103	27,079
Fuel oil (d) ..	(a)	17,389	29,042	34,955	29,367	27,517	21,227
Gas oil (d) ..	(a)	8,832	8,440	8,997	8,060	9,728	14,955
Lubricating oil ..	(a)	—	1,018	674	546	660	1,074
Anglo-Egyptian Sudan—							
Aviation spirit (d) ..	14,880	18,556	25,523	35,245	36,707	39,492	11,990
Motor spirit (d) ..							36,573
Kerosene ..	6,368	7,721	9,690	8,913	10,685	10,347	12,253
Fuel oil and gas oil ..	46,672	64,587	73,775	75,753	82,097	86,711	123,073
Lubricating oil, etc. ..	2,336	2,352	2,998	3,906	4,160	2,732	4,374
Asphalt, etc. ..	2,742	67	770	1,456	1,625	2,199	3,639
Gambia—							
Aviation spirit ..	2,676	677	1,672	1	(c) 307	28	1,036
Motor spirit ..	500	683	1,114	1,212	1,270	1,938	1,410
Kerosene ..	208	309	245	455	373	513	567
Fuel oil ..	342	466	1,040	1,329	1,702	1,661	1,819
Lubricating oil ..	40	95	104	155	272	241	231
Gold Coast—							
Aviation spirit (d) ..	34,053	23,365	29,778	1,770	3,468	2,346	2,307
Motor spirit (d) ..				34,925	44,099	60,201	65,507
Kerosene ..	7,853	5,667	13,946	10,954	14,301	20,565	18,988
Fuel oil (d) ..				23,242	20,828	38,224	33,315
Gas oil (d) ..	43,305	56,534	58,766	42,610	45,858	50,820	59,394
Diesel oil ..				1,147	2,044	8,842	3,339
Lubricating oil ..	2,323	2,473	5,027	4,160	4,467	6,571	6,968
Asphalt and bitumen ..	48	29	382	1,121	1,457	2,110	8,803
Kenya (e)—							
Aviation spirit (d) ..	73,784	84,821	81,691	9,764	8,084	7,293	9,330
Motor spirit (d) ..				72,629	79,572	54,882	98,917
Kerosene—Power ..	16,986	23,167	28,158	7,784	12,898	12,402	15,692
do. —Other ..				5,364	17,785	8,822	22,234
Gas oil and fuel oil (d) ..	55,983	114,388	118,704	220,278	349,935	326,184	447,408
Lubricating oil (d) ..	3,210	4,835	6,344	7,688	7,392	6,162	4,098
Greases ..	230	516	461	751	605	450	669
Petroleum jelly ..	(a)	(a)	(a)	82	107	12	31
Paraffin wax ..	(a)	(a)	(a)	72	65	40	73

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

(a) Information not available.

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

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

(e) Including Uganda up to 1948 inclusive.

(f) Natural.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES (Cont.)							
Mauritius—							
Aviation spirit	} 1,875	6,106	6,138	7,770	{ 2,225	163	(c) 93
Motor spirit							
Kerosene	1,926	3,718	3,066	3,417	3,570	3,172	3,097
Lubricating oils, etc.	577	514	857	1,101	976	1,162	1,330
Fuel oil (b)	(c) 76	11	81	1,785	5,465	9,040	9,608
Refined motor grease	31	84	60	126	94	116	168
Asphalt	1,765	448	1,603	2,308	1,614	1,712	826
Nigeria—							
Aviation spirit	} 36,160	29,315	44,815	{ 9,886	6,723	13,654	14,552
Motor spirit							
Kerosene	12,548	18,030	10,007	13,965	16,956	35,493	27,118
Gas oil (b)	} 4,387	11,601	16,032	{ 11,003	1,070	4,535	7,290
Diesel oil (b)							
Fuel oil (b)	1,015	2,037	4,763	832	8,061	13,784	6,331
Lubricating oil	1,015	2,037	4,763	7,213	19,618	8,865	22,847
Asphalt and bitumen	2,610	1,130	760	3,722	3,714	5,221	7,734
Northern Rhodesia—							
Motor spirit	6,517	8,641	11,895	14,822	20,546	25,582	32,720
Kerosene—Power	517	785	913	1,666	2,596	3,186	3,971
do. —Other	784	1,105	1,104	1,575	1,991	2,396	2,915
Fuel oil	(a) 696	(a) 1,003	(a) 1,340	(a) 1,973	3,486	5,677	8,145
Lubricating oil	279	296	558	3,068	2,641	3,121	1,840
Nyasaland—							
Motor spirit	2,337	3,039	3,829	4,338	5,569	7,938	8,388
Kerosene	597	818	770	1,114	1,251	2,188	1,362
Fuel oil	859	1,173	1,352	2,202	2,748	4,525	4,648
Lubricating oil	133	157	264	303	506	907	828
Seychelles—							
Motor spirit	87	156	202	182	208	253	305
Kerosene	150	172	166	563	191	337	202
Fuel oil	142	152	222	250	273	154	374
Lubricating oil	5	17	17	22	18	20	19
Sierra Leone—							
Aviation spirit (b)	} 2,594	3,426	4,429	{ 154	307	419	151
Motor spirit							
Kerosene	1,987	2,253	2,807	2,844	3,722	3,926	4,733
Gas oil	3,860	5,698	5,459	2,584	2,257	2,864	2,790
Diesel oil	} 322	480	456	{ 20	813	1,579	1,747
Fuel oil (b)							
Lubricating oil	311	232	493	2,848	3,937	3,951	3,961
Asphalt and bitumen	432	771	307	880	368	469	882
Somaliland Protectorate—							
Motor spirit	1,556	1,509	3,638	3,591	2,947	2,995	3,588
Kerosene	294	367	433	454	424	417	439
Gas oil and diesel oil	1,010	1,006	1,027	772	(a)	(a)	793
Lubricating oil	158	160	109	197	(a)	(a)	133
Southern Rhodesia—							
Aviation spirit	(a) 2,814	3,787	5,996	5,996	5,453	4,602	6,526
Motor spirit	22,909	34,059	46,246	53,414	65,605	80,449	91,680
Kerosene	2,709	3,210	3,960	4,261	5,444	5,560	7,489
do. —Power	2,499	3,590	4,859	6,449	11,454	13,597	19,024
Fuel oil	6,216	7,770	9,716	11,280	13,864	20,011	26,285
Lubricating oil	1,624	2,730	4,200	5,049	5,878	6,972	8,519
Other oils (total imports)	223	191	189	240	459	267	482
Paraffin wax	633	463	398	395	400	513	467
Asphalt and bitumen	2,886	4,752	3,033	4,799	9,043	9,416	17,086
South West Africa—							
Motor spirit	7,411	12,716	16,032	17,284	17,488	12,318	(a)
Kerosene	3,487	3,114	3,541	3,793	5,202	(a)	(a)
Diesel oil	(a) 4,029	9,106	9,106	15,026	12,685	(a)	(a)
Fuel oil	(a) 73	123	123	—	97	(a)	(a)
Lubricating oil	713	1,535	1,634	2,375	1,129	1,503	(a)
Asphalt and bitumen	10	48	114	230	247	288	(a)

(a) Information not available.

(b) Including bunkers. See exports.

(c) Excess of re-exports.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES (Cont.)							
Tanganyika—							
Aviation spirit (g) ..	} 17,066	18,056	26,900	{ 3,221	4,034	3,789	3,288
Motor spirit ..							
Kerosene—Power ..	1,290	1,378	1,049	1,629	2,006	40,839	37,565
do. —Other ..	7,681	7,859	8,697	9,700	12,220	1,595	2,226
Gas oil ..	5,793	5,361	9,745	} 19,417	36,103	52,258	36,556
Diesel oil ..	2,659	3,167	2,431				
Fuel oil (g) ..	1,924	1,513	664				
Lubricating oil ..	1,532	2,148	4,474				
Greases ..	107	132	456	4,650	5,379	5,233	4,984
Petroleum jelly ..	(a)	(a)	(a)	604	1,043	425	268
Paraffin wax ..	(a)	(a)	(a)	22	38	25	20
Uganda—							
Aviation spirit (e) ..	} (b)	(b)	(b)	(b)	{ 1,995	1,842	1,734
Motor spirit ..							
Kerosene—Power ..					24,643	28,773	31,991
do. —Other ..					464	707	809
Gas oil and fuel oil ..					6,900	7,600	10,692
Lubricating oil ..					2,392	30,014	18,270
Greases ..					2,538	1,964	2,422
Petroleum jelly ..					164	137	167
Paraffin wax ..					4	11	20
Union of South Africa—							
Motor spirit (g) ..	419,268	681,254	751,033	876,554	1,008,594	1,022,063	(f)1,058,242
Other spirit ..	5,152	5,128	7,234	5,779	9,447	8,727	(a)
Turpentine substitute ..	7,889	10,122	13,296	12,559	11,107	18,184	(a)
Kerosene—Power ..	76,240	115,680	109,248	147,291	186,420	213,631	} 406,549
do. —Other ..	78,431	100,494	112,298	108,199	133,521	127,831	
Diesel oil (e) ..	} 309,638	{ 126,899	217,102	292,065	299,196	(f)466,545	(a)
Fuel oil (e) ..							
Lubricating oil ..		282,060	159,572	403,791	371,684	(f)290,067	(a)
Transformer oil ..	34,358	51,266	73,156	60,234	70,270	66,506	(f) 89,535
Road oil ..	808	968	1,630	1,416	2,912	3,570	(a)
Other oils ..	2,362	4,364	8,762	10,263	4,730	8,855	(a)
Paraffin wax ..	1,722	2,018	2,992	1,580	2,520	1,749	(a)
Asphalt and bitumen ..	6,689	6,515	15,271	14,217	8,365	10,918	15,661
Petroleum jelly ..	15,574	13,532	22,595	19,307	22,115	30,767	40,153
Zanzibar—							
Motor spirit, etc. ..	992	1,149	3,855	1,104	2,458	2,171	(a)
Kerosene, etc. ..	1,196	1,081	1,482	1,551	1,986	2,561	3,339
Fuel oil ..	1,363	2,639	1,449	423	1,875	2,416	2,897
Lubricating oil ..	1,472	1,373	1,424	2,232	1,457	2,561	1,233
Canada (c)—							
Crude petroleum ..	72	111	132	(a)	(a)	(a)	(a)
Tops for refiners ..	8,115,176	9,058,212	9,778,106	10,794,172	10,563,835	11,237,210	11,897,747
Aviation spirit ..	—	—	80,000	264,026	220,713	186,316	121,312
Motor spirit ..	} 257,543	571,656	738,931	1,057,071	{ 137,446	160,860	174,550
Kerosene, etc. ..							
Lubricating oils ..	48,711	137,208	536,535	275,257	137,020	57,818	70,172
Diesel oil ..	42,064	43,569	54,391	64,563	65,776	70,776	115,590
Fuel oil ..	} 222,296	456,435	1,557,050	1,395,803	{ 150,407	278,266	451,313
do. (d) ..							
Other petroleum oils ..	147,482	53,843	46,545	52,101	55,531	44,564	59,409
Liquefied petroleum gas ..	15,934	3,175	3,577	6,543	4,793	4,793	8,074
Petroleum jelly, etc. ..	(a)	(a)	(a)	(a)	63,619	69,409	84,308
Grease ..	(£110,479)	(£155,658)	(£154,933)	(£137,896)	(£157,134)	(£205,706)	(£2,285)
Paraffin wax, etc. ..	4,688	4,432	4,958	4,534	4,909	5,573	6,069
Asphaltum oil, etc. ..	8,355	9,535	18,181	19,461	10,945	13,384	16,703
Asphalt ..	23	—	—	—	—	371	20
Petroleum coke ..	5,733	7,393	9,733	9,443	19,730	18,986	14,795
Other products ..	171,537	197,840	231,146	274,321	265,984	267,300	314,437
	5,931	69,492	46,503	36,843	16,175	10,829	17,189

(a) Information not available.

(b) Included with Kenya.

(c) Including Newfoundland from April 1, 1949.

(d) Ex warehoused, for ships' stores.

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

(f) Total imports.

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

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES (Cont.)							
Newfoundland (d)—							
Motor spirit (e)	73,382	66,353	78,537	92,586	} (d)	(d)	(d)
Kerosene	5,291	6,595	8,123	7,472			
Lubricating oil	2,926	3,503	4,000	2,562			
Fuel oil, etc. (c)	67,069	68,281	74,328	153,703			
Greases	111	119	176	112			
Paraffin wax	6	9	8	2			
Asphalt, etc.	3,382	4,419	1,036	3,365			
British Guiana—							
Crude petroleum	16,648	22,895	30,142	53,081	53,492	49,790	57,199
Aviation spirit (b)	129	144	473	332	239	1,056	1,507
Motor spirit	3,164	4,342	5,189	6,586	6,602	8,385	9,813
Kerosene	2,139	2,264	3,042	3,805	3,002	4,995	4,948
Fuel oil, etc.	6,745	14,425	9,185	17,584	12,290	23,231	18,405
Lubricating oil	903	1,008	1,451	1,847	1,369	1,569	2,186
Tar and pitch	210	327	278	288	248	344	309
Paraffin wax	17	5	20	21	10	3	12
Asphalt	113	110	249	348	35	257	242
British West Indies—							
Bahamas—							
Crude petroleum	5,600	5,567	6,539	8,506	9,784	8,812	11,167
Motor spirit	3,731	2,895	9,266	5,921	10,190	8,610	10,118
Kerosene	1,429	1,618	2,135	2,284	2,716	2,618	3,335
Lubricating oil	176	204	272	352	344	512	440
Barbados—							
Crude petroleum	1,628	5,776	6,005	6,140	6,261	5,357	5,566
Motor spirit	3,161	4,151	5,382	5,389	6,729	7,268	9,464
Kerosene	1,720	2,592	2,280	3,130	3,783	4,835	5,676
Road oil	64	117	129	138	154	108	120
Gas oil and diesel oil	(f) 91	(f) 1,348	2,575	4,195	3,327	3,777	9,537
Fuel oil	5,520	10,903	3,789	1,840	2,409	(f) 282	—
Lubricating oil	197	286	444	450	465	687	644
Bermuda—							
Aviation spirit	2,789	2,823	(a)	} (b)24,029	(b) 32,173	(b) 19,666	(b) 30,306
Motor spirit	2,163	3,617	1,927		(b) 2,740	(b) 2,442	(b) 1,924	(b) 1,253
Kerosene	3,495	1,871	2,026	(b) 11,674	(b) 9,580	(a)	(b) 11,784
Diesel oil	} 14,082	{ 2,445	9,186	(b) 20,530	(b) 10,599	(b) 6,121	(b) 8,329
Fuel oil			9,130	10,534	(b) 20,530	(b) 10,599	(b) 6,121	(b) 8,329
Lubricating oil	228	233	435	(b) 767	(b) 775	(b) 794	(a)
Asphalt	(a)	(a)	(a)	1,570	(f) 177	49	2,700
Dominica—							
Motor spirit	234	259	273	305	333	405	496
Kerosene	190	199	197	242	273	318	377
Fuel oil and diesel oil	114	168	184	131	117	197	294
Lubricating oil	13	15	17	18	22	29	32
Road oil	167	(a)	130	401	182	132	(a)
Grenada—							
Motor spirit	556	728	1,041	977	1,391	1,275	1,603
Kerosene	457	512	499	661	565	602	711
Fuel oil	253	242	266	313	286	377	311
Lubricating oil	89	37	47	43	43	56	102
Road oil	414	102	1,026	646	773	589	543
Jamaica (total imports)—							
Aviation spirit (b)	2,142	2,522	7,047	10,044	10,082	9,899	7,125
Motor spirit (b)	15,722	23,144	26,565	28,528	34,458	41,079	36,072
Kerosene	6,403	8,472	8,317	8,371	10,655	10,617	9,744
Gas oil (c)	7,607	10,073	7,376	2,893	14,678	2,625	(a)
Diesel oil (c)	12,242	16,020	7,376	12,602	11,778	10,935	6,238
Fuel oil (c)	11,883	41,060	69,430	106,680	108,370	93,719	55,200
Lubricating oil	872	1,096	1,792	2,163	2,104	1,845	2,797
Grease	179	188	317	279	304	379	290

(a) Information not available.

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

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

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

(e) Including Aviation spirit.

(f) Excess of re-exports.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES (Cont.)							
British West Indies—(Cont.)							
Jamaica—(Cont.)							
Petroleum jelly ..	(a)	(a)	(a)	77	127	93	155
Paraffin wax ..	(a)	(a)	(a)	15	27	69	21
Asphalt ..	2,448	6,446	1,948	5,855	6,309	3,220	6,954
Leeward Islands—							
Motor spirit ..	1,479	1,391	1,811	1,620	1,971	1,805	1,951
Kerosene ..	616	550	738	670	768	879	867
Gas oil ..	235	620	583	627	551	944	693
Diesel oil ..	330	387	728	571	741	1,008	612
Fuel oil ..	659	96	293	158	188	192	111
Road oil ..	556	701	679	206	424	498	466
Lubricating oil ..	150	104	129	264	150	210	111
St. Lucia—							
Motor spirit ..	494	449	521	625	730	686	1,030
Kerosene ..	236	294	251	295	262	239	494
Fuel oil ..	—	405	370	372	492	442	909
Lubricating oil ..	36	52	35	72	115	128	89
Road oil ..	—	337	484	412	404	354	408
St. Vincent—							
Motor spirit ..	279	394	516	539	709	681	682
Kerosene ..	324	256	314	315	362	392	401
Fuel oil, etc. ..	61	285	332	440	(a)	(a)	(a)
Lubricating oil ..	43	20	39	47	51	48	40
Asphalt, tar and pitch ..	7	9	3	6	(a)	(a)	(a)
Trinidad and Tobago—							
Crude petroleum ..	303,909	411,930	842,288	1,265,332	1,613,696	1,607,463	2,248,962
Motor spirit ..	108,341	5	8	7	16,285	7	1
Kerosene ..	27,746	1,263	—	—	—	7	(c) 4
Gas oil ..	1,867	—	—	—	—	803	—
Fuel oil ..	—	—	—	—	—	537	(a) —
Lubricating oil ..	2,404	2,238	2,601	3,020	3,306	3,255	3,917
Petroleum jelly ..	84	14	60	51	72	122	60
Paraffin wax ..	55	39	78	27	37	44	17
British Honduras—							
Aviation spirit ..	(a)	(a)	(a)	207	(c) 74	(c) 12	129
Motor spirit ..	2,199	2,045	2,776	2,412	2,285	2,971	3,716
Kerosene ..	980	923	1,163	1,188	1,347	1,309	1,349
Diesel oil ..	2,065	2,015	1,974	1,607	1,814	2,341	3,197
Lubricating oil ..	268	307	434	252	115	254	454
Asphalt ..	647	30	397	825	567	725	821
Falkland Islands—							
Motor spirit ..	75	108	220	161	211	274	243
Kerosene ..	65	123	106	61	86	122	128
Gas and diesel oils ..	158	406	655	50	454	1,188	168
Fuel oil (d) ..	44,343	56,901	66,839	72,924	88,679	107,383	131,720
Aden—							
Motor spirit ..	2,986	2,062	5,160	5,649	7,204	1,071	8,323
Kerosene ..	2,537	3,381	3,919	4,083	3,896	3,691	5,200
Gas oil ..	12,082	3,864	19,036	18	12,487	17,138	131,721
Fuel oil (b) ..	361,993	788,789	1,061,564	1,694,039	2,204,001	2,438,024	2,413,776
Lubricating oil ..	959	1,183	966	790	828	990	1,323
Other petroleum oils ..	—	—	—	—	—	—	—
Petroleum jelly ..	2	7	3	—	—	—	—
Paraffin wax ..	—	4	3	—	—	—	—
Asphalt and bitumen ..	—	224	472	5	764	118	92
British Borneo—							
Brunei—							
Motor spirit ..	(a)	(a)	974	1,690	2,600	3,089	(a)
Kerosene ..			(a)	(a)	557	549	(a)
Diesel oil ..			(a)	(a)	2,530	5,818	(a)
Fuel oil ..			1,523	3,615	86	234	(a)
Lubricating oil ..			236	480	589	1,596	(a)

(a) Information not available.

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

(c) Excess of re-exports.

(d) Revised to include imports for bunkering purposes. See exports.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951		
BRITISH COUNTRIES (Cont.)									
British Borneo (Cont.)									
North Borneo—									
Motor spirit	(a)	(a)	(a)	2,151	3,732	3,732	4,633		
Kerosene				1,844	2,181	2,665	3,262		
Fuel oil				4,523	8,376	6,024	3,176		
Lubricating oil				247	458	517	477		
Sarawak—									
Crude petroleum	(a)	(d)232,068	1,689,965	2,641,516	3,290,440	4,057,462	4,895,640		
Motor spirit		(d) 618	1,309	1,381	1,608	2,265	3,880		
Kerosene		(d) 1,241	3,144	3,774	4,062	5,232	6,393		
Diesel oil		(a)	(a)	847	2,279	4,537	5,100		
Fuel oil		(d) 2,177	3,909	3,505	2,434	588	787		
Lubricating oil		(d) 106	452	394	428	619	712		
Natural gas (1,000 cu. ft.)	(d)71,000	564,989	1,260,123	1,663,614	1,822,776	1,744,904			
Ceylon—									
Motor spirit	63,672	56,009	58,599	76,940	84,994	89,330	106,316		
Kerosene	35,068	35,497	34,43	34,661	57,261	43,026	64,869		
Gas oil (c)	8,109	10,301	13,150	12,529	24,804	17,422	17,422		
Diesel oil (b)	121,960	97,459	94,718	108,426	162,989	103,402	141,953		
Fuel oil (b)	596,237	287,586	270,259	292,133	464,140	507,853	536,226		
Lubricating oil (c)	3,408	4,338	4,035	6,084	7,607	5,850	8,323		
Other oils and greases	86	257	131	181	279	369	325		
Asphalt	9,592	18,416	12,025	7,911	15,336	14,140	11,445		
Cyprus—									
Motor spirit, etc.	7,606	10,344	13,353	15,790	17,806	21,246	30,212		
Kerosene, etc.	4,755	9,876	13,448	13,738	14,113	18,789	19,152		
Fuel oils	12,692	23,273	39,305	22,181	42,349	46,943	43,106		
Lubricating oil	740	1,273	1,760	1,520	2,209	1,827	1,391		
Paraffin wax	40	75	117	109	73	65	165		
Asphalt and bitumen	2,273	2,476	2,234	3,149	2,673	2,958	2,473		
Hong Kong (total imports)—									
Motor spirit	(a)	}	}	74,213	147,974	77,999	52,422		
Kerosene				53,164	49,574	56,630	59,428	37,111	21,056
Fuel oil and gas oil				2,169	135,166	339,441	536,870	495,017	495,070
Diesel oil				7,191	77,900	(a)	(a)	(a)	(a)
Lubricating oil				9,407	18,135	(a)	(a)	(a)	(a)
Greases				403	682	(a)	(a)	(a)	(a)
Petroleum jelly				2,773	1,114	1,124	1,509	1,825	2,918
Paraffin wax				1,250	3,966	4,749	6,596	10,749	2,573
India (total imports)—									
Motor spirit	1,942,642	523,276	358,200	368,498	552,806	639,270	758,548		
Other spirit	147,663	21,030	15,024	9,095	246	3,103	7,744		
Kerosene	442,300	539,284	740,782	376,338	699,019	808,637	872,031		
Diesel oil	507,561	412,484	415,315	269,191	459,181	509,523	599,778		
Fuel oil (c)	1,042,120	1,013,533	892,088	657,999	849,507	787,858	856,020		
White spirit, etc.	29	1,019	19,945	29,831	8,930	326	539		
Lubricating oil	133,913	140,292	204,422	183,893	258,033	170,745	162,694		
Turpentine substitute	4,569	3,991	1,986	8	41	2,169	2,113		
Other oils	5,333	6,366	8,045	6,393	17,907	8,659	12,960		
Greases	1,845	2,518	7,111	4,550	2,637	2,619	5,465		
Paraffin wax	10	153	12	1,264	839	106	7		
Asphalt	264,872	24,713	49,272	46,293	67,431	87,493	28,587		
Malaya (total imports)—									
Aviation spirit	(a)	}	}	99,425	139,756	101,761	154,064		
Motor spirit				173,875	232,146	236,027	423,869	689,841	854,821
Kerosene				103,716	146,481	93,146	121,014	172,930	150,535
Vapourising oil				(a)	(a)	8,645	30,338	59,387	130,201
Gas oil				(a)	(a)	139,070	148,819	305,792	512,634
Diesel oil				(a)	(a)	510,693	816,848	729,633	753,414
Fuel oil				573,502	665,625	565,131	996,140	1,222,917	1,413,042
Lubricating oil				11,993	28,603	16,674	15,070	22,264	32,578
Paraffin wax				239	1,330	1,341	1,243	2,079	5,919
Asphalt and bitumen				4,540	24,632	14,031	36,341	30,906	27,073
Other petroleum products		38	223	119	44	1,387	2,283		

(a) Information not available.

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

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

(d) April 15 to December 31 only.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES (Cont.)							
Palestine—							
Crude petroleum ..	3,957,490	4,016,056	(a)	(a)	}	(d)	(d)
Motor spirit ..	69	123	(a)	(a)			
Lubricating oil and grease	4,376	6,825	(a)	(a)			
Petroleum jelly ..	77	23	(a)	(a)			
Paraffin wax ..	255	189	(a)	(a)			
Asphalt ..	516	749	(a)	(a)			
Australia—							
Crude petroleum ..	(c) 6,710	158,511	306,711	379,408	571,904	784,147	800,380
Aviation spirit (b) ..	} 900,268	1,137,848	1,315,758	1,308,866	1,466,456	112,054	132,739
Motor spirit ..						1,663,166	1,869,987
Turpentine substitute ..	(f) 19,206	(f) 12,748	(f) 21,967	(f) 23,159	(f) 27,927	32,653	32,991
Kerosene ..	} 280,769	306,770	406,039	401,153	106,379	142,842	172,627
do. power ..						280,514	294,270
Lubricating oil ..	45,592	62,088	139,492	80,681	145,940	131,066	137,865
Solar oil ..	} 1,857,295	1,258,870	918,525	1,455,649	} 315,038	360,034	429,263
Residual oil ..						1,419,234	1,344,777
Petroleum jelly ..	3,076	1,001	2,416	355	471	(f) 870	2,235
Paraffin wax, etc. ..	1,940	2,947	4,282	5,936	3,576	(f) 3,141	7,297
Mastic asphalt ..	9	—	—	3	—	—	—
Natural asphalt (f) ..	(a)	19,840	32,099	34,896	4,180	4,244	(h) 4,774
Bitumen and pitch (f) ..	(a)	68,205	61,766	100,891	18,779	(h) 30,583	(h) 33,388
Fiji—							
Aviation spirit (e) ..	(a)	1,679	2,154	3,679	4,060	4,014	5,028
Motor spirit ..	4,833	8,401	7,680	7,533	8,525	9,900	10,690
Kerosene ..	2,892	1,081	2,395	1,734	3,791	2,357	2,861
Diesel oil (b) ..	} 12,476	16,769	} 12,209	9,284	11,302	12,653	15,279
Fuel oil (b) ..								961	14,279
Lubricating oil ..	529	760	902	786	686	816	1,058
Greases ..	43	45	136	84	95	106	157
Bitumen and tar ..	242	477	1,421	746	686	1,447	292
New Guinea (f)—							
Motor spirit ..	(a)	(a)	(a)	5,504	9,331	4,240	3,892
Kerosene ..	(a)	(a)	(a)	616	2,842	922	1,846
Fuel oil ..	(a)	(a)	(a)	5,083	7,872	4,356	8,424
Lubricating oil ..	(a)	(a)	(a)	338	466	705	549
New Zealand—							
Motor spirit ..	230,581	280,919	329,312	381,019	467,315	472,221	460,182
Turpentine substitute ..	2,204	3,672	3,020	4,397	3,094	4,448	4,883
Kerosene ..	8,744	4,696	5,460	6,850	3,205	7,110	9,366
do. power ..	34,647	29,373	25,329	32,227	23,419	21,046	16,510
Gas oil ..	} (b) 272,055	(b) 222,667	281,068	391,712	} 17,431	24,177	28,550
Diesel oil ..								172,743	184,307
Fuel oil ..	56,610	284,158	208,637	56,610	284,158	208,637	
Lubricating oil ..	11,555	13,992	23,591	25,622	16,491	28,539	23,887
Transformer oil ..	42	795	1,147	943	1,125	515	2,164
Other refined oils ..	1,524	2,696	4,418	5,047	262	2,296	4,276
Paraffin wax ..	915	311	1,430	1,742	341	1,091	1,517
Asphalt and bitumen ..	5,370	10,287	12,634	31,765	8,767	20,087	9,997
Solomon Islands (g)—							
Fuel oil, etc. ..	83	1,812	65	—	219	576	16
Motor spirit ..	26	56	35	69	420	377	383
Kerosene ..	73	72	138	151	135	309	229
Lubricating oil ..	8	10	39	16	38	89	177
Western Samoa—							
Motor spirit ..	(a)	(a)	(a)	1,931	1,140	1,588	(a)
Kerosene ..	(a)	(a)	(a)	432	623	241	(a)
Fuel oil ..	(a)	(a)	(a)	191	188	485	(a)
Lubricating oil ..	(a)	(a)	(a)	207	33	165	(a)

(a) Information not available.

(c) Excess of re-exports.

(d) See "Israel" under Foreign Countries.

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

(f) Years ended June 30 of that stated.

(g) Years ended March 31 following that stated.

(h) Calendar year.

(b) Including imports for bunkering purposes. See exports

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951				
Irish Republic—											
Aviation spirit	48,937	114,973	136,662	160,037	195,156	45,486	36,352				
Motor spirit								156,366	190,210		
Kerosene	42,027	58,374	67,276	86,535	90,800	76,466	99,463				
Fuel oil and gas oil ..	25,136	48,849	171,841	205,336	197,560	247,192	361,598				
Lubricating oil	4,716	11,610	13,176	10,903	14,071	14,056	17,326				
Paraffin wax	1,728	1,371	3,041	1,898	753	2,347	2,802				
Asphalt and bitumen ..	387	16,029	14,709	25,958	15,690	24,543	27,046				
FOREIGN COUNTRIES											
Austria—											
Motor spirit	(a)	(a)	8,391	41,184	48,448	47,947	34,327				
Gas oil			4,057	7,290	—	4,129	1				
Fuel oil			—	2,325	3,460	1,453	20				
Lubricating oil, etc. ..			870	4,427	10,329	7,573	10,172				
Petroleum jelly			165	95	374	223	122				
Paraffin wax			66	1,025	2,304	502	3,389				
Ozokerite and ceresin ..			50	209	775	(a)	200				
Asphalt, bitumen, etc. ..			15	1,482	5,183	2,080	3,068				
Petroleum coke			—	7,294	8,726	8,866	8,188				
Tar and pitch			—	132	1,980	7,706	2,381	9,949			
Belgium-Luxemburg E.U.—											
Crude petroleum	—	74,300	149,000	234,557	337,320	435,201	918,830				
Motor spirit, etc.	107,300	335,900	344,000	506,670	545,618	670,836	728,830				
Kerosene	14,500	12,100	14,000	16,855	20,132	32,369	48,287				
Fuel oil and gas oil ..	77,560	109,206	1,290,000	846,417	987,361	1,116,658	1,675,895				
Lubricating oil	40,700	58,700	126,000	103,000	108,106	138,531	162,939				
Other heavy oils	(a)	(a)	(a)	(a)	1,766	3,822	416				
Petroleum jelly	(a)	(a)	(a)	618	587	841	1,128				
Paraffin wax	333	3,204	(a)	3,174	3,100	6,219	4,109				
Ozokerite and ceresin ..	(a)	(a)	(a)	200	133	503	380				
Asphalt, bitumen, etc. ..	524	4,485	(a)	3,440	3,815	5,740	12,290				
Pitch	(a)	(a)	(a)	(a)	(a)	(a)	8,798				
Bulgaria—											
Crude petroleum	4,571	6,571	(a)	(a)	(a)	(a)	(a)				
Motor spirit	28,365	34,608									
Kerosene	29,747	38,441									
Gas oil	15,710	26,630									
Fuel oil	4,553	1,211									
Lubricating oil, etc. ..	4,337	11,721									
Paraffin wax, ceresin, etc.	450	557									
Tar	—	—									
Petroleum jelly	40	112									
Ozokerite and ceresin ..	104	5									
Asphalt and bitumen ..	925	620									
Czechoslovakia—											
Crude petroleum, etc. ..	(a)	89,425	183,003	(b) 186,366	(a)	(a)	(a)				
Motor spirit and kerosene		12,756	2,984	(b) 2,174							
Fuel oil and gas oil ..		63,303	89,345	(b) 60,984							
Lubricating oil and greases		24,641	20,434	(b) 27,445							
Paraffin wax		185	2,239	(b) 3,542							
Ozokerite and ceresin ..		43	321	(b) —							
Petroleum jelly		75	196	(b) 165							
Asphalt products		237	886	(b) 383							
Denmark—											
Crude petroleum		5,913	22,562	17,054				19,306	40,022	33,219	20,828
Motor spirit	32,286	213,626	280,675	299,395	358,107	494,951	430,508				
Kerosene	21,560	33,932	32,619	32,741	39,011	50,286	54,986				
Turpentine substitute ..	608	5,221	8,351	5,664	7,588	10,359	8,722				
Gas oil	87,536	336,323	765,591	712,583	777,040	1,131,111	1,314,620				
Fuel oil	—	7,528	9,700	13,939	17,219						
Lubricating oil	12,182	35,266	26,146	45,540	25,816	38,113	53,448				
Grease	21	262	219	372	324	469	543				
Petroleum jelly	259	643	151	300	242	430	428				
Ozokerite, etc.	180	747	292	409	108	521	468				
Paraffin wax	238	1,005	1,398	1,549	1,458	2,700	2,018				
Natural asphalt	406	6,193	2,868	6,822	4,707	3,784	3,023				
Other asphalt	2,779	40,623	22,559	23,781	35,759	50,103	51,731				

(a) Information not available.

(b) January to October only

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Finland (total imports)—							
Crude petroleum	22	28	—	—	—	53	—
Motor spirit	4,562	41,661	146,399	196,368	213,079	239,755	261,805
Kerosene	2,633	16,499	18,983	15,034	15,494	19,348	18,476
do. Power	7,058	24,333	18,386	27,927	21,217	46,988	33,822
Fuel oil	7,216	56,881	113,495	191,457	110,397	155,559	176,111
Lubricating oil	3,006	7,151	15,095	21,358	12,859	19,450	27,531
Petroleum jelly	15	101	134	607	55	131	164
Paraffin wax	243	529	1,429	1,663	1,184	1,306	2,555
Asphalt and tar	526	7,852	17,532	13,384	21,095	42,887	37,553
France—							
Crude petroleum	204,124	2,643,683	4,907,595	7,372,981	11,620,331	13,910,096	17,778,901
Motor spirit	666,466	1,084,395	686,001	233,112	110,064	60,675	162,466
Kerosene	70,951	74,213	40,209	279	2,500	90	2,374
Lubricating oil	126,852	216,463	111,155	78,007	64,494	63,092	161,280
Fuel oil	333,572	409,713	524,709	598,839	288,250	152,725	114,681
Gas oil	296,636	372,865	197,735	84,562	95,626	165,153	72,540
Road oil, etc.	26,057	197,647	152,077	(a)	(a)	(a)	(a)
Petroleum coke	27,373	65,063	88,568	58,917	42,020	20,189	39,621
Paraffin wax	1,512	4,002	10,832	5,561	4,967	699	4,882
Ozokerite and ceresin	—	—	—	1,234	1,016	1,690	4,183
Petroleum jelly	148	809	1,021	30	12	60	66
Pitch	1,585	2,469	34,318	(a)	(a)	(a)	(a)
Asphalt and bitumen	97	1,117	660	508	2,519	2,829	6,974
Germany (Federal)—							
Crude petroleum	(b)	—	(b) 39,000	247,329	1,068,752	1,902,839	3,154,889
Motor spirit	(b)	390,000	(b) 379,000	562,304	393,003	163,984	121,417
Kerosene	(a)	—	—	29,079	15	3,147	1
Gas oil	(a)	(b) 435,000	(b) 501,000	583,982	617,590	514,804	238,810
Fuel oil	(a)	(a)	(a)	66,472	45,374	63,900	77,868
Lubricating oil, etc.	(a)	(a)	(a)	2,181	5,325	11,820	21,747
Paraffin wax	(a)	(a)	(a)	1,011	13,779	3,697	2,267
Ozokerite, etc.	(a)	(a)	(a)	1	862	166	380
Asphalt	(a)	(a)	(a)	28	2,125	3,893	4,204
Greece—							
Motor spirit	21,474	62,547	122,089	140,328	172,900	224,267	245,550
Kerosene	7,538	6,930	14,823	21,294	37,637	72,450	80,676
Fuel oil and diesel oil	140	173,228	319,839	512,046	639,661	755,710	808,212
Other oils and greases	3,485	14,876	6,725	16,236	21,195	15,807	12,616
Petroleum jelly	47	160	105	46	176	69	100
Asphalt and bitumen	10,818	5,706	6,046	14,944	5,910	21,520	14,381
Hungary—							
Crude petroleum	(a)	3,800	10,000	(a)	(a)	(a)	(a)
Iceland—							
Aviation spirit	16,723	22,120	34,565	28,319	57,815	17,152	15,326
Motor spirit	822	1	3,161	2,802	3,987	24,588	16,909
Kerosene	16,236	36,776	59,168	91,386	119,866	3,170	1,883
Gas oil and fuel oil	1,618	1,846	3,085	2,313	2,661	135,769	136,107
Lubricating oil	77	50	190	90	116	3,245	2,919
Greases	23	26	48	21	57	64	123
Paraffin wax	7	1	(a)	(a)	3	33	95
Petroleum jelly	245	454	64	37	483	—	4
Asphalt	—	(a)	(a)	(a)	(a)	438	707
Italy—							
Crude petroleum	(a)	31,143	1,212,523	1,745,639	2,442,256	4,483,992	6,698,687
Motor spirit	(a)	197,142	253,004	44,160	9,926	21,632	34,440
Kerosene	(a)	75,600	106,953	16,608	2,273	6,366	190
Gas oil	(a)	166,385	223,130	39,862	8,385	4,546	12,735
Fuel oil	(a)	568,458	1,541,436	727,116	668,141	877,255	757,328
Lubricating oil	(a)	13,160	141,641	49,564	73,419	94,272	72,210
Petroleum jelly	(a)	(a)	1,953	459	912	674	2,013
Paraffin wax	(a)	(a)	11,232	5,925	10,870	20,641	12,039
Bitumen	(a)	(a)	43,571	3,566	301	47	78
Petroleum coke	(a)	(a)	34,377	9,604	16,325	19,830	45,776

(a) Information not available.

(b) Bizonal area only.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Netherlands—							
Crude petroleum		257,213	847,337	1,172,327	2,080,870	4,724,254	6,070,214
Motor spirit		375,575	236,750	210,962	250,141	177,492	129,344
Kerosene		286,457	316,451	232,008	264,197	177,674	160,459
Gas oil		253,675	368,616	291,968	264,184	381,691	222,688
Fuel oil		419,536	658,373	387,727	461,851	410,625	440,916
Lubricating oil	(a)	62,013	65,121	64,353	67,975	88,052	91,186
Greases		1,019	1,175	1,960	300	315	156
Petroleum jelly		1,307	1,484	372	542	1,435	1,727
Paraffin wax		2,337	4,241	6,673	5,573	21,141	15,158
Ozokerite and ceresin		100	353	236	324	217	243
Asphalt		6,880	1,227	370	271	314	473
Norway—							
Crude petroleum	12,532	—	—	—	—	16,053	(a)
Motor spirit	36,144	214,025	226,998	202,349	270,935	244,281	253,683
Turpentine substitute	2,015	9,332	8,523	6,970	5,815	8,609	9,520
Kerosene	18,177	21,598	23,701	25,027	34,292	37,497	47,084
Diesel oil	12,687	89,624	182,056	273,119	178,954	194,188	240,769
Gas oil	81,340	160,922	233,494	305,723	336,544	344,991	372,988
Fuel oil	8,740	81,958	267,895	472,093	464,696	531,209	763,686
Lubricating oil	9,136	26,322	30,118	23,164	32,678	28,538	32,661
Paraffin wax	327	1,035	2,224	1,733	2,152	1,110	2,384
Petroleum jelly	449	2,218	1,917	774	1,280	814	1,272
Asphalt, etc.	6,279	32,276	24,025	33,608	29,674	36,784	28,228
Poland—							
Crude petroleum	(a)	19,405	43,353	(a)	(a)	(a)	(a)
Motor spirit	(a)	205,598	86,955	(a)	(a)	(a)	(a)
Kerosene	(a)	9,760	38,184	(a)	(a)	(a)	(a)
Gas oil	(a)	81,150	68,459	(a)	(a)	(a)	(a)
Lubricating oil	(a)	29,120		(a)	(a)	(a)	(a)
Portugal—							
Crude petroleum	26,397	101,048	263,400	320,086	274,990	260,431	378,276
Motor spirit	44,337	60,305	68,080	82,465	78,382	61,579	76,509
Kerosene	33,020	45,354	43,267	57,163	49,191	52,444	62,595
Gas oil and diesel oil	31,132	36,719	46,185	31,788	49,478	64,369	59,506
Fuel oil	40,373	95,085	122,178	67,424	54,005	107,139	128,735
Lubricating oil	7,008	12,544	12,992	19,272	12,684	10,290	20,379
Other mineral oils	689	1,981	3,141	1,729	1,671	1,741	1,331
Petroleum jelly	175	128	190	124	117	73	239
Paraffin wax	785	923	1,974	1,833	1,855	1,504	121
Natural asphalt	5,681	14,835	28,504	21,821	488	7,686	15,079
Spain—							
Crude petroleum	94,472	130,842	—	—	—	279,745	64,106
Light petroleum	1,783	1,825	—	—	—	—	281,219
Motor spirit	230,641	334,108	367,123	355,623	414,670	401,465	426,277
Kerosene	6,762	21,962	26,134	6,143	18,384	21,763	10,948
Diesel oil	95,823	164,322	164,266	170,798	220,419	214,958	196,422
Lubricating oil	41,805	56,610	52,765	59,441	41,315	50,017	67,530
Fuel oil	102,808	136,493	325,074	349,285	433,719	370,072	403,848
Petroleum jelly	92	132	157	272	384	400	487
Paraffin wax	431	737	1,066	1,150	1,439	1,266	2,046
Asphalt	22,736	39,936	65,630	32,236	29,124	61,609	72,737
Sweden—							
Crude petroleum	14,086	452,554	469,107	565,890	459,171	888,718	1,038,706
Motor spirit	39,063	451,089	650,138	553,511	528,013	530,388	698,594
Kerosene	14,684	117,785	129,150	173,101	166,326	199,756	277,161
Fuel oil and gas oil	105,703	718,247	1,735,564	1,837,270	1,727,581	1,938,887	2,607,512
Lubricating oil	19,350	68,488	68,811	59,552	31,872	62,411	73,920
Petroleum jelly	506	1,201	970	786	412	481	(a)
Other oils	186	1,008	316	363	202	319	(a)
Paraffin wax	2,716	5,878	7,671	5,864	6,472	6,920	8,628
Ozokerite and ceresin	135	1,225	1,204	1,451	933	927	(a)
Asphalt	1,248	4,281	4,723	3,922	2,253	2,858	5,711
Pitch	19,171	25,396	21,705	11,984	3,655	5,174	12,899

(a) Information not available.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Switzerland—							
Motor spirit	11,181	148,142	197,755	235,473	262,509	297,586	311,699
Kerosene	79	15,103	11,264	43,144	18,146	65,276	87,594
Fuel oil	18,376	216,980	427,882	397,457	506,310	585,666	611,409
Lubricating oil and grease	3,185	28,723	30,492	30,215	22,447	39,199	52,930
Other oils	8	7,036	67,653	94,051	74,153	91,529	90,598
Petroleum jelly	294	1,811	892	630	357	1,217	1,339
Paraffin wax and ceresin	48	3,193	2,644	2,630	1,579	4,835	3,215
Asphalt and bitumen ..	408	716	687	664	421	818	680
Yugoslavia—							
Crude petroleum						398,740	378,041
Aviation spirit						14,331	11,277
Motor spirit						39,748	25,243
Fuel oil						20	83
Lubricating oil						16,378	18,471
Greases	(a)	(a)	(a)	(a)	(a)	6	—
Paraffin wax						1,343	1,027
Petroleum jelly						270	589
Bitumen						651	—
Petroleum coke						968	2,097
Algeria—							
Aviation spirit	57,078	129,591	142,779	7,757	6,832	4,517	6,517
Motor spirit				145,512	156,617	189,227	202,866
Kerosene	2,472	38,500	45,541	55,034	47,833	55,501	58,394
Gas oil	31,253	44,177	68,935	88,343	96,089	125,465	143,239
Fuel oil and diesel oil ..	17,831	72,230	109,603	130,868	151,780	185,020	238,424
Lubricating oil	7,067	13,869	13,181	13,924	25,115	22,845	25,901
Road oil, etc.	3,859	22,241	17,261	25,141	26,276	33,470	35,857
Paraffin wax	283	269	763	443	350	389	605
Petroleum jelly	12	11	45	8	16	9	38
Ozokerite and ceresin ..	6	111	160	22	25	5	14
Asphalt, etc., natural ..				83	29	611	248
Mastic asphalt	16	601	961	1,148	3,184	2,786	3,962
Angola—							
Motor spirit	6,147	10,069	11,644	15,800	16,140	21,858	
Kerosene	1,056	1,465	1,125	1,500	2,296	2,619	(a)
Gas oil and fuel oil	2,386	3,684	3,950	5,700	7,897	8,705	
Lubricating oil	431	1,395	1,678	1,540	1,843	2,434	
Belgian Congo—							
Motor spirit, etc.	33,592	43,494	55,854	57,251	88,150	103,669	
Kerosene	4,688	5,825	5,588	5,678	14,006	12,520	
Fuel oil, etc.	5,535	5,805	8,196	12,142	29,654	31,932	
Lubricating oil and greases	2,848	4,891	5,983	11,678	9,487	7,731	(a)
Petroleum jelly	33	—	53	(a)	(a)	3	
Paraffin wax	1	18	5	(a)	(a)	2	
Asphalt	146	737	525	(a)	(a)	3,559	
Cameroon (French)—							
Motor spirit	5,923	7,889	8,014	17,034	19,308	23,235	29,355
Kerosene	991	1,624	1,774	4,458	4,117	5,841	5,234
Fuel oil	1,031	1,453	1,524	3,303	5,707	10,163	10,589
Lubricating oil	368	784	715	1,747	1,792	1,748	2,866
Canary Islands—							
Crude petroleum	152,286	454,143					
Aviation spirit	—	556					
Diesel oil	3,008	270,120	945,834	1,921,173	2,014,628	2,142,101	2,527,985
Fuel oil	2,917	218,750					
Lubricating oil	980	840					
Ceuta—							
Petroleum products (b) ..	14,003	44,879	259,232	161,242	196,954	104,851	410,320

(a) Information not available.

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

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Egypt—							
Crude petroleum	—	5	—	—	—	2	
Motor spirit	149,281	31,962	30,028	19,741	32,216	70,584	
Turpentine substitute	1,011	1,062	606	808	1,048	(a)	
Kerosene	480,784	533,956	442,679	370,935	448,019	434,529	
Fuel oil		721,290	685,169	622,751	474,058		
Gas oil	1,026,797	183,309	133,416	138,929	150,615	603,405	(a)
Diesel oil		132,345	136,657	132,207	102,330		
Lubricating oil	19,143	24,351	29,822	36,050	32,452	33,167	
Petroleum jelly	284	251	426	473	346	506	
Paraffin wax	394	156	366	628	1,026	419	
Ozokerite and ceresin	—	10	17	35	27	45	
Asphalt and bitumen	570	620	880	1,889	856	(a)	
Ethiopia (b)—							
Motor spirit	6,081	8,147	7,449	7,344	8,377	6,870	18,700
Kerosene	1,782	2,164	1,909	1,527	1,400	1,000	1,500
Fuel oil, gas oil, etc.	6,192	10,101	8,638	11,094	11,812	9,400	1,470
French Equatorial Africa—							
Aviation spirit	923	1,568	17,382	20,953	33,894	5,329	13,528
Motor spirit	9,856	12,773				30,470	32,327
Kerosene	1,238	1,939	1,982	2,336	4,799	4,138	7,001
Gas oil	1,302	1,238	2,661	6,584	12,149	8,539	13,957
Fuel oil	81	721				1,888	5,782
Lubricating oil	745	1,297	1,476	2,228	3,093	3,539	4,950
Grease	17	56	(a)	(a)	179		
French Somaliland—							
Motor spirit				59	996	2,718	626
Kerosene	1,781	2,524	3,430	1,051	206	725	174
Lubricating oil				1,347	1,285	425	95
French Togoland—							
Crude petroleum	34	7	(a)	82	55	79	108
Motor spirit	510	950	1,458	1,569	1,851	2,853	4,404
Kerosene	466	916	1,034	1,198	1,997	1,405	3,340
Fuel oil	309	817	475	889	1,060	1,282	999
Lubricating oil	57	118	148	342	128	255	427
French West Africa—							
Motor spirit		35,498	40,928	65,551	65,787	(c) 107,313	(c) 117,769
Kerosene	70,781	11,850	12,181	12,406	20,013	(c) 34,357	(c) 22,238
Fuel oil		19,661	12,265	23,851	53,081	(c) 520,642	(c) 1,043,910
Lubricating oil		3,771	6,585	7,532	7,638	(c) 32,856	(c) 19,441
Liberia—							
Aviation spirit	(a)	(a)	(a)	(a)	1,300	500	
Motor spirit	(a)	(a)	(a)	(a)	5,000	6,000	
Kerosene	(a)	(a)	(a)	(a)	700	2,600	
Gas oil	(a)	(a)	(a)	(a)	2,500	5,900	(a)
Madagascar—							
Motor spirit	7,804	12,794	19,750	19,914	18,000	(a)	(a)
Kerosene	2,335	2,135	4,246	2,850	4,000	(a)	(a)
Fuel oil, gas oil, etc.	10,581	1,616	4,643	4,532	7,000	(a)	(a)
Road oil, etc.	—	1,196	1	4,011		(a)	(a)
Lubricating oil	1,120	1,540	1,923	3,866	2,000	(a)	(a)
Asphalt and bitumen	5	343	71	43	(a)	(a)	(a)
Melilla—							
Petroleum products	6,431	10,769	9,363	12,637	10,654	13,732	16,634
Morocco (French)—							
Crude petroleum	6,344	10,957	28,139	(a)	(a)	(a)	(a)
Motor spirit	32,546	61,586	168,553	108,213	150,000	236,614	204,326
Kerosene	(a)	(a)	18,327	23,800	24,900	26,982	24,691
Gas oil	17,894	25,476	49,222	57,750	90,500	80,231	85,615
Fuel oil	10,695	55,600	122,552	175,437	170,900	164,500	178,792
Lubricating oil	3,344	6,451	9,940	—	24,900	17,020	10,640
Grease	405	444	1,079	(a)	(a)	1,451	1,129
Paraffin wax	2,077	1,901	6,090	(a)	(a)	3,228	3,744
Asphalt and bitumen	63	9	919	(a)	(a)	(a)	(a)

(a) Information not available.
(c) Total imports.

(b) Years ended September 10.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Morocco (Spanish)—							
Crude petroleum ..	(a)	983	173	(a)	(a)	(a)	(a)
Motor spirit	7,397	8,350	10,087	(a)	(a)	(a)	(a)
Kerosene	(a)	870	1,445	(a)	(a)	(a)	(a)
Gas oil	2,392	1,991	2,196	(a)	(a)	(a)	(a)
Fuel oil	132	149	265	(a)	(a)	(a)	(a)
Lubricating oil and grease	558	400	1,643	(a)	(a)	(a)	(a)
Paraffin wax	99	37	106	(a)	(a)	(a)	(a)
Asphalt	519	266	281	(a)	(a)	(a)	(a)
Mozambique—							
Motor spirit	10,085	13,103	17,110	20,573	21,551	22,919	24,845
Kerosene	4,123	5,097	6,192	7,341	8,931	10,323	10,146
Fuel oil	5,013	6,112	9,655	12,295	17,458	18,490	24,227
Lubricating oil	1,632	1,749	2,179	2,352	2,796	3,041	2,984
Paraffin wax	49	46	40	30	39	46	27
Petroleum jelly	10	12	12	11	22	29	41
Asphalt and bitumen (c)	355	2,337	673	961	852	1,388	2,296
Portuguese Guinea—							
Motor spirit	382	750	584	1,071	1,035	(a)	(a)
Kerosene	139	172	281	379	475	(a)	(a)
Fuel oil	158	271	204	415	216	(a)	(a)
Lubricating oil	25	72	118	25	228	(a)	(a)
Réunion—							
Motor spirit	695	987	3,841	2,656	2,384	4,232	5,753
Kerosene	395	326		497	1,006	1,235	1,407
Heavy oils	174	199		486	129	2,601	3,272
Grease	15	6		—	—	(a)	(a)
Tunis—							
Crude petroleum	(a)	(a)	(a)	(a)	10,703	—	(a)
Motor spirit	19,342	32,317	39,101	50,264	60,028	68,429	72,400
Kerosene	8,713	15,746	14,887	28,023	33,928	27,632	37,000
Fuel oil	2,685	5,438	19,287	16,532	41,141	59,410	105,900
Gas oil	20,836	28,677	52,608	53,148	56,796	64,121	80,000
Lubricating oil	4,563	6,608	4,606	10,577	9,463	8,208	(a)
Petroleum jelly	18	26	9	3	251	—	(a)
Paraffin wax	194	9	117	105	(a)	(a)	(a)
Costa Rica (b)—							
Motor spirit	17,147	16,385	12,900	22,503	21,248	29,000	27,500
Kerosene	2,927	(a)	2,800	137	2,164	4,200	5,000
Diesel oil	18,417	16,906	23,254	28,022	24,707	20,600	30,600
Fuel oil	26,856	29,028	40,103	38,410	33,185	38,000	37,800
Lubricating oil	1,413	2,157	2,008	1,821	3,204	2,100	2,000
Grease	103	117	36	170	111		
Petroleum jelly	24	18	486	(a)	(a)	(a)	(a)
Paraffin wax	267	584	850	1,145	394	(a)	(a)
Asphalt	59	955	5,000	1,064	1,870	(a)	(a)
Cuba (b) —							
Crude petroleum	114,767	137,252	206,600	193,356	230,137	283,000	(a)
Aviation spirit	(a)	(a)	15,333	22,000	19,000	25,000	
Motor spirit	36,093	73,566	151,127	177,281	221,551	259,000	
Kerosene	511	(a)	—	166	1	(a)	
Fuel oil	1,031,254	1,357,760	1,213,479	1,064,270	1,101,939	1,290,000	
Gas oil				13,826	13,079	(a)	
Lubricating oil	11,212	11,772	23,805	20,332	(a)	(a)	
Residual oils	—	—	12,402	16,327	(a)	(a)	
Petroleum jelly	—	—	695	762	(a)	(a)	
Greases	7	—	1	—	(a)	(a)	
Paraffin wax	1,211	(a)	(a)	(a)	(a)	(a)	
Asphalt rock	200	—	—	26	23	(a)	
Other asphalt	24	—	—	296	76	(a)	
Bitumen	229	—	—	—	4	(a)	
Petroleum coke	2,980	—	—	386	536	(a)	

(.) Information not available.

(b) Total imports.

(c) Including coal tar and pitch.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Dominican Republic (d)—							
Motor spirit	11,873	(a)	30,035	39,361	35,170	35,622	(a)
Kerosene	3,832		6,504	7,042	6,254	6,283	
Fuel oil	21,810		42,849	59,347	65,230	58,463	
Lubricating oil	1,532		6,506	7,437	3,492	2,636	
Other oils	696		3,329	3,972	2,593	2,352	
French West Indies—							
Guaceloupe—							
Motor spirit and kerosene	3,947	6,027	10,558	9,231	9,269	13,916	13,651
Fuel oil and lubricating oil	3,354	5,228		6,336	2,615	(a)	(a)
Martinique—							
Motor spirit	3,348	4,468	6,201	7,771	11,431	8,383	(a)
Kerosene	871	1,055	1,817	1,350	1,998	1,958	(a)
Fuel oil	4,054	4,455	5,441	6,012	5,854	6,203	(a)
Lubricating oil	658	444	304	461	1,038	(a)	(a)
Guatemala—							
Crude petroleum, etc. ..	79,000	93,000	134,813	174,776	162,580	194,991	166,296
Aviation spirit	900	5,600	7,386	6,456	7,560	5,678	7,880
Motor spirit	5,000	19,000	23,984	31,744	36,741	39,010	35,244
Kerosene	2,800	3,000	4,341	5,800	5,877	6,943	9,337
Diesel oil	25,000	22,000	18,032	26,349	18,272	19,145	19,782
Fuel oil	(a)	(a)	(a)	57	323	1,057	1,363
Lubricating oil	1,800	(a)	2,302	3,217	3,406	2,353	4,172
Grease	174	(a)	66	255	204	217	231
Asphalt	344	(a)	2,539	3,172	763	14,449	2,234
Paraffin wax, etc. ..	870	(a)	1,281	1,596	1,300	2,036	2,303
Haiti (b)—							
Motor spirit	9,400	11,200	14,500	13,000	16,456	16,456	18,276
Kerosene	2,990	3,800	3,970	3,500	5,700	(a)	(a)
Fuel oil, etc.	3,900	7,000	9,130	8,400	(a)	(a)	(a)
Lubricating oil	580	500	540	560	560	(a)	(a)
Honduras (c)—							
Motor spirit	7,886	9,536	(a)	(a)	(a)	16,600	(a)
Kerosene, etc.	932	962				2,100	
Fuel oil	85,000	95,371				126,300	
Lubricating oil	4,502	1,494				1,540	
Mexico—							
Crude petroleum	11,023	23,277	28,057	46,579	6,424	3	(a)
Motor spirit	54,740	118,625	145,166	182,507	148,946	142,680	111,776
Kerosene	5,512	10,165	7,117	1,580	3,996	6,664	(a)
Gas oil	13,760	15,750	26,356	10,419	18,392	18,103	(a)
Fuel oil	47,419	101,094	128,467	151,931	137,855	117,204	52,474
Lubricating oil	39,862	37,472	45,755	41,424	49,543	56,795	61,475
Grease	2,772	3,738	3,819	3,411	4,430	4,894	3,576
Paraffin wax	4,736	12,689	12,612	16,243	23,047	30,856	25,544
Petroleum jelly	670	1,048	569	598	780	1,023	(a)
Asphalt	357	3,050	5,962	3,987	8,600	6,342	(a)
Asphalt rock	2	13	10	2,492	583	325	(a)
Natural gas (1,000 cu. ft.)	18,451,916	17,704,679	17,595,653	(a)	16,639,535	20,869,095	(a)
Netherlands West Indies—							
Crude petroleum	30,539,124	32,500,712	38,239,068	38,381,729	37,258,468	(a)	(a)
Aviation spirit	105,983	10,224	106,300	199,020	220,660	(a)	
Motor spirit	65	33,412	6,230	244	8	(a)	
Kerosene	4,960	615	96	341	167	(a)	
Fuel oil	1,833,914	1,782,577	1,761,400	2,205,130	1,998,781	(a)	
Diesel oil	141,733	8,842	1	30,980	131,105	(a)	
Gas oil	16,972	22,781	10,045	8,794	55,992	(a)	
Lubricating oil	1,930	1,726	4,296	10,422	7,631	(a)	
Asphalt	134	52	160	28	15	(a)	

(a) Information not available.

(b) Years ended September 30.

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

(d) Total imports.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Nicaragua (b)—							
Motor spirit	10,026	11,397	14,000	16,000	(a)	(a)	} (a)
Kerosene	1,557	2,391	2,800	3,300	(a)	(a)	
Fuel oil	31,209	23,630	19,000	22,000	(a)	(a)	
Lubricating oil	1,581	1,502	1,677	1,900	(a)	(a)	
Panama—							
Motor spirit	39,000	35,000	39,000	42,000	39,000	48,000	57,000
Kerosene	8,000	8,000	9,000	10,000	11,000	13,000	13,000
Diesel oil	14,000	18,000	21,000	19,000	17,000	23,000	24,000
Fuel oil	72,000	75,000	73,000	82,000	79,000	83,000	84,000
Lubricating oil	6,580	6,720	2,800	1,500	2,200	2,700	2,400
St. Pierre and Miquelon—							
Motor spirit	} 549	869	312	1,020	780	{ 408	479
Gas oil and fuel oil .. ..								361	464
Salvador—							
Motor spirit	6,100	11,246	14,229	17,300	21,000	(a)	37,000
Kerosene	1,780	2,545	2,800	3,400	3,900	(a)	6,500
Fuel oil	9,900	21,583	8,021	31,000	36,000	(a)	(a)
Diesel oil	4,370	7,383	8,066	14,700	10,000	(a)	13,000
Lubricating oil and grease	650	790	1,700	1,260	1,400	(a)	4,700
Asphalt	800	—	1,217	1,665	(a)	(a)	5,400
United States—							
Crude petroleum	10,571,973	12,500,987	14,187,878	18,369,642	22,118,025	24,676,627	25,353,445
Aviation spirit	125,566	5,566	3	113	380	2	—
Motor spirit, etc.	360,426	9,337	6,278	48,863	1,711	22,661	46,143
Naphtha	—	7	37,374	23	151	3,470	9,092
Kerosene	30,183	—	32	19,381	2	34,329	23
Fuel oil	4,955,227	6,931,885	8,546,931	8,219,709	11,287,386	17,872,337	17,766,055
Gas oil and diesel oil	2,748,894	1,257,391	584,957	346,209	320,888	381,996	394,453
Unfinished distillates and topped oils	150	3,325	18,135	24,954	617,395	1,051,685	737,116
Lubricating oil, etc.	920	12,661	6,321	14,316	30	105	37
Road oil, etc.	3,526	22,425	19,695	30,526	16,674	12,785	17,699
Paraffin wax, etc.	832	131	435	3,445	106	85	27
Ozokerite and ceresin	—	—	10	85	8	47	36
Petroleum jelly	—	1	43	1	—	—	1
Asphalt (petroleum)	127,502	86,789	163,714	220,693	174,028	275,856	377,094
Asphalt and bitumen (natural)	4,595	3,962	5,181	5,951	3,669	5,235	5,629
Natural gas (1,000 cu. ft.)	—	—	—	1,188	—	—	—
Argentina—							
Crude petroleum	140,937	896,493	1,149,061	1,714,192	1,476,604	2,907,050	2,773,100
Motor spirit	308	14,596	105,782	211,621	137,372	116,721	32,000
Kerosene	172	11,512	(a)	10,000	42,000	(a)	(a)
Gas oil	2,411	2,450	6,083	14,180	12,700	(a)	(a)
Fuel oil	317,115	2,017,763	2,374,103	2,575,078	2,368,788	2,017,229	2,705,977
Diesel oil	60,282	190,191	77,555	76,374	85,035	61,710	45,077
Lubricating oil	2,400	7,778	13,248	20,221	24,458	42,949	41,325
Petroleum jelly	499	441	} (a)	(a)	(a)	(a)	(a)
Grease	53	99					
Paraffin wax	180	868					
Ozokerite and ceresin	4	175					
Asphalt for paving	5	10					
Asphalt for roofing	75	220					
Other asphalt and bitumen	—	265					
Pitch	25	22					
Bolivia—							
Crude petroleum, etc.	65,000	58,040	71,867	65,846	(a)	(a)	(a)
Aviation spirit	2,400	(a)	4,634	4,699	(a)	(a)	(a)
Motor spirit	16,800	15,742	18,180	31,987	(a)	(a)	(a)
Kerosene	3,500	2,051	2,291	3,499	(a)	(a)	(a)
Lubricating oil and grease	2,400	2,950	2,898	2,715	(a)	(a)	(a)
Paraffin wax	960	961	1,190	1,276	(a)	(a)	(a)
Tar, pitch, etc.	2,460	778	1,342	985	(a)	(a)	(a)

(a) Information not available.

(b) Total imports.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Brazil (total imports)—							
Crude petroleum ..	9,823	36,135	8,558	—	—	58,000	(a)
Motor spirit ..	405,083	613,996	918,182	1,114,523	1,392,507	1,592,454	1,944,858
Kerosene ..	53,311	105,775	135,548	189,081	205,018	232,748	(a)
Gas oil ..	13,083	14,718	7,654	10,761	9,901	565,000	2,706,826
Diesel oil ..	98,587	137,651	252,608	420,784	422,156		
Fuel oil ..	296,112	659,726	1,034,537	1,278,901	1,363,200	1,703,000	(a)
Lubricating oil ..	67,475	51,011	88,523	94,193	75,304	113,701	180,534
Transformer oil ..	1,154	1,021	2,480	1,339	2,102	(a)	(a)
Petroleum jelly ..	2,133	855	586	493	683	(a)	(a)
Greases ..	604	854	1,159	550	503	(a)	(a)
Paraffin wax ..	1,681	1,418	2,873	3,166	2,817	(a)	(a)
Asphalt and bitumen ..	9,230	6,331	13,585	19,217	30,297	53,037	(a)
Chile—							
Motor spirit ..	101,249	160,420	202,076	222,788	246,377	249,900	267,000
Kerosene ..	16,097	22,187	24,436	30,000	35,636	42,000	61,000
Diesel oil ..	90,248	66,672	76,715	160,683	103,025	86,610	129,915
Fuel oil ..	78,895	22,186	732,083	760,229	585,812	(a)	781,000
Residual fuel oil ..	571,083	831,739	790,453	866,970	824,765	488,166	890,707
Lubricating oil ..	14,314	14,027	18,200	16,940	18,900	14,700	26,000
Petroleum jelly ..	114	58	(a)	274	314	(a)	(a)
Greases ..	641	660	1,289	1,163	924	800	1,694
Ozokerite ..	3	7	(a)	(a)	(a)	(a)	(a)
Natural asphalt ..	85	485	(a)	(a)	(a)	(a)	(a)
Paraffin wax ..	6,687	4,377	5,750	5,482	8,590	5,739	7,947
Tar and pitch ..	6,401	6,371	3,163	3,438	(a)	(a)	(a)
Colombia—							
Aviation spirit ..	(a)	(a)	(a)	(a)	17,000	32,000	(a)
Motor spirit ..	24,773	66,222	100,410	172,820	133,000	123,000	(a)
Kerosene ..	24	36	(a)	25	45	(a)	(a)
Fuel oil and gas oil ..	15,375	23,206	19,429	57,585	21,930	40,000	(a)
Diesel oil ..	—	247	3,000	4,281	4,290		
Lubricating oil ..	6,093	6,011	9,240	7,797	9,163	1,260	(a)
Petroleum jelly ..	140	148	(a)	(a)	163	(a)	(a)
Paraffin wax ..	5,910	6,285	6,158	9,117	10,590	(a)	(a)
Asphalt ..	409	294	(a)	(a)	(a)	(a)	(a)
Ecuador—							
Aviation spirit ..	1,951	3,442	4,800	8,555	7,444	(a)	(a)
Motor spirit ..				1,377	(a)	(a)	(a)
Lubricating oil and greases ..	1,680	2,240	2,240	2,240	2,508	(a)	(a)
Asphalt and bitumen ..	590	665	(a)	2,377	3,461	(a)	(a)
French Guiana—							
Motor spirit ..	329	380	1,405	1,671	(a)	772	(a)
Kerosene ..	142	253				373	
Fuel oil, etc. ..	183	373				804	
Paraguay—							
Motor spirit ..	4,980	8,721	(a)	(a)	(a)	(a)	(a)
Kerosene ..	1,038	2,673					
Fuel oil, etc. ..	—	437					
Gas oil ..	426	269	(a)	(a)	(a)	(a)	(a)
Lubricating oil ..	140	280					
Paraffin wax ..	9,448	98					
Asphalt, tar, etc. ..	608	(a)					
Peru—							
Crude petroleum ..	6	4	—	(a)	(a)	—	(a)
Motor spirit and gas oil ..	2,292	5,499	23,087			30,266	
Kerosene ..	—	1	—			6,445	
Lubricating oil ..	3,954	5,912	6,003			46	
Petroleum jelly ..	173	265	122			3,963	
Paraffin wax ..	3,144	1,851	2,760			16	
Asphalt and bitumen ..	301	74	21			5	
Greases ..	204	356	317			—	
Ozokerite ..	16	9	18				

(a) Information not available.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Uruguay—							
Crude petroleum ..	241,056	257,399	302,757	372,166	537,439	325,189	} (a)
Motor spirit, etc. ..	18,440	16,660	22,180	25,312	29,000	30,059	
Kerosene	—	—	8,341	1,481	—	(a)	
Gas oil	—	—	—	2,147	985	—	
Diesel oil	16,005	15,521	1,921	3,951	6,319	6,274	
Fuel oil	84,038	195,859	181,608	45,055	19,691	438	
Lubricating oil and greases	7,185	10,823	22,166	9,204	8,561	9,367	
Paraffin wax	(a)	(a)	(a)	229	87	406	
Venezuela—							
Motor spirit	1,418	6,453	20,698	45,071	} (a)	(a)	
Turpentine substitute ..	34	22	17	29			
Kerosene	—	—	669	39,930			
Gas oil	20	239	799	6,304			
Fuel oil	—	—	1	20,996			
Lubricating oil	9,660	10,080	(a)	(a)			
Paraffin wax	781	2,231	3,202	3,101			
Petroleum jelly	115	80	256	157			
Natural gas	1,579	1,720	(a)	(a)			
Asphalt, bitumen, etc. ..	3,248	630	812	3,013			
Afghanistan—							
Motor spirit	(b) 4,900	(d) 3,400	(a)	18,820	15,033	(a)	(a)
Kerosene	(b) 1,000	(d) 400	(a)	1,782	636	(a)	(a)
Diesel oil	(b) 120	(d) 80	(a)	1,500	3,800	(a)	(a)
Lubricating oil	(b) 140	(d) 280	(a)	2,100	840	(a)	(a)
China—							
Motor spirit	5,164	(a)	(a)	(a)	(a)	(a)	(a)
Kerosene	1,782	234,308	303,824	(a)	(a)	(a)	(a)
Fuel oil and diesel oils ..	1,413	337,750	1,249,208	(a)	(a)	(a)	(a)
Lubricating oil	560	56,009	55,970	(a)	(a)	(a)	(a)
Paraffin wax	—	5,096	5,623	(a)	(a)	(a)	(a)
Asphalt	(a)	12,699	17,076	(a)	(a)	(a)	(a)
French Indo-China—							
Motor spirit	} (a)	7,700	20,000	35,751	62,381	68,769	99,542
Kerosene		1,600	10,000	20,277	22,782	23,449	30,145
Fuel oil		5,000	11,000	12,846	20,331	19,595	} 57,434
Gas oil		(a) 5,000	5,000	4,383	9,280	7,010	
Lubricating oil		1,400	(a)	5,326	6,484	5,226		5,647
Indonesia—							
Crude petroleum	} (a)	(a)	(a)	904,000	1,634,000	1,379,000	695,000
Motor spirit		64,834	37,524	28,574	1,500	2,300	(a)
Kerosene		7,000	16,163	7,636	8,400	3,000	(a)
Fuel and gas oils		54,824	8,194	4,662	3,700	(a)	(a)
Lubricating oil		4,340	17,640	28,840	20,860	29,000	(a)
Asphalt		(a)	20,464	30,147	43,540	21,780	(a)
Iran (b) (c)—							
Crude petroleum	} (a)	(a)	(a)	(a)	(a)	(a)	(a)
Motor spirit		6,500	6,100	1,300	(a)	(a)	(a)
Kerosene		28,200	13,900	5,979	(a)	(a)	(a)
Gas oil		7,300	5,200	1,441	(a)	(a)	(a)
Fuel oil		9,800	3,800	465	4	170	(a)
Lubricating oil		4,000	2,400	3,645	1,629	3,628	(a)
Greases		(a)	(a)	(a)	(a)	(a)	(a)
Paraffin wax		390	850	288	887	(a)	(a)
Petroleum jelly		98	280	123	226	206	(a)
Asphalt, tar and bitumen		—	—	1,000	3	—	—

(a) Information not available.

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

(c) Total imports.

(d) March 21 to December 22 only.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Iraq—							
Crude petroleum ..	131,234	(a)	(a)	(a)	(a)	(a)	(a)
Motor spirit	9,546	14,918	15,262	(a)	(a)	(a)	(a)
Kerosene	17,284	(a)	(a)	(a)	(a)	(a)	(a)
Fuel oil	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Lubricating oil ..	6,307	7,840	9,100	(a)	(a)	(a)	(a)
Greases	70	(a)	(a)	(a)	(a)	(a)	(a)
Asphalt and bitumen ..	1,315	(a)	(a)	(a)	(a)	(a)	(a)
Israel—							
Crude petroleum ..	(b)	(b)	(b)	(b)	137,346	192,966	(a)
Aviation spirit					—	9,373	
Motor spirit					92,547	115,088	
Kerosene					61,730	67,566	
Fuel oils					316,511	325,524	
Lubricating oils ..					8,694	9,121	
Paraffin wax					624	437	
Petroleum jelly .. .					58	14	
Asphalt					4,015	23,814	
Turpentine substitute ..	328	208					
Japan—							
Crude petroleum ..	718,857	—	—	—	1,797	120,155	(a)
Motor spirit	—	48,224	145,467	227,557	(a)	1,108,691	
Kerosene	3,182	18,152	13,584	—	(a)	2	
Other refined products ..	18,725	260,285	327,323	1,000,000	(a)	(a)	
Jordan—							
Motor spirit	(a)	(a)	9,225	18,169	18,006	21,341	(a)
Kerosene	(a)	(a)	9,802	8,180	15,518	24,058	
Diesel oil, etc	(a)	(a)	(a)	(a)	(a)	9,531	
Lubricating oil .. .	(a)	(a)	(a)	(a)	(a)	1,181	
Petroleum jelly .. .	(a)	(a)	(a)	(a)	(a)	1,230	
Macao—							
Motor spirit	65	827	3,470	5,696	(a)	(a)	(a)
Kerosene	261	3,583	12,375	26,758	(a)	(a)	(a)
Philippine Republic—							
Motor spirit	—	84,485	284,000	436,000	413,000	(a)	(a)
Kerosene	—	44,992	81,000	110,000	127,000	(a)	(a)
Diesel oils	—	81	182,000	233,000	243,000	(a)	(a)
Fuel oil	—	10,019	103,600	233,000	259,000	(a)	(a)
Lubricating oils ..	23	9,762	36,900	29,000	31,000	(a)	(a)
Grease	—	729	2,115	2,419	2,800	(a)	(a)
Petroleum jelly .. .	258	1,684	1,015	2,289	1,629	(a)	(a)
Paraffin wax	153	991	2,354	3,516	3,926	(a)	(a)
Asphalt	60	23,641	3,211	24,657	27,096	(a)	(a)
Portuguese India—							
Motor spirit	984	1,328	1,258	1,633	2,867	(a)	(a)
Kerosene	1,693	2,360	2,797	2,105	2,851	(a)	(a)
Lubricating oils ..	325	281	302	337	209	(a)	(a)
Other oils	1,128	1,338	1,777	1,982	2,362	(a)	(a)
Syria and Lebanon—							
Crude petroleum ..	2,093,127	—	(a)	(a)	(a)	(a)	(a)
Motor spirit	17,327	8,951	29,720	39,500	98,100	(a)	(a)
Kerosene	24,089	13,967	19,000	22,000	56,800	(a)	(a)
Fuel oil and diesel oil ..	40,968	30,794	33,979	38,181	190,392	(a)	(a)
Lubricating oil .. .	3,277	2,548	5,600	6,300	8,500	(a)	(a)
Paraffin wax	57	70	(a)	(a)	(a)	(a)	(a)
Petroleum jelly .. .	11	48	(a)	(a)	(a)	(a)	(a)
Asphalt and bitumen ..	13	3,334	10,815	4,789	9,653	(a)	(a)

(a) Information not available.

(b) See "Palestine" under British Countries.

IMPORTS OF PETROLEUM AND ALLIED PRODUCTS (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Turkey—							
Motor spirit	38,383	65,518	94,369	138,877	190,234	192,568	241,227
Kerosene	41,732	44,906	63,223	79,800	109,298	122,956	168,315
Fuel oil	57,137	56,116	74,261	81,081	133,605	150,342	197,627
Heavy oils	9,846	18,396	25,186	24,721	37,075	24,201	34,906
Paraffin wax and petroleum jelly	640	1,125	1,273	656	559	458	1,724
Ozokerite and ceresin	1	—	4	1	5	18	16
Asphalt	(a)	(a)	(a)	(a)	(a)	(a)	7,717
French Oceania—							
Motor spirit	} 3,334	3,718	4,289	6,010	5,587	7,659	7,156
Kerosene							
Other oils							
New Caledonia—							
Motor spirit	2,295	3,756	6,833	5,314	5,298	2,716	6,795
Kerosene	764	498	1,674	942	835	867	2,040
Fuel oil	1,504	1,894	5,361	6,722	3,444	119	6,364
Lubricating oil, etc.	140	163	436	487	560	377	46

(a) Information not available.

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

Producing Country	Estimated Tribasic Phosphate of Lime Content or equivalent.													
	1945	1946	1947	1948	1949	1950	1951	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES														
Seychelles (exports) (b)	6,867	20,726	14,061	21,237	13,727	9,691	4,404	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Southern Rhodesia	—	—	9	—	66	36	—	(a)	(a)	(a)	(a)	(a)	(a)	(a)
South West Africa (b)	27	1,638	2,188	1,022	942	571	772	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Tanganyika (c)	9	275	217	309	128	460	340	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Uganda	8,511	7,099	6,495	—	—	—	2,207	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Union of South Africa	26,911	37,096	41,171	39,030	55,579	51,025	80,548	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Canada	267	51	—	—	18	115	—	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Christmas Island (c)	(d) 6,000	32,750	104,451	174,765	243,475	315,361	333,343	(a)	(a)	(a)	(a)	(a)	(a)	(a)
India	524	243	853	1,114	589	3,025	416	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Sarawak (guano)	(a)	(a)	(a)	420	500	643	649	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Australia	9,197	20	5,317	2,135	11	1,627	7,929	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Nauru Island (c)	—	57,650	174,800	535,700	789,400	1,053,450	928,050	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Ocean Island (c)	—	29,200	209,100	124,850	260,900	247,250	252,400	(a)	(a)	(a)	(a)	(a)	(a)	(a)
New Zealand	7,956	11,047	200	—	—	—	—	(a)	(a)	(a)	(a)	(a)	(a)	(a)
TOTAL	66,000	199,000	559,000	901,000	1,366,000	1,683,000	1,611,000	13,300	5,500	5,100	—	(a)	(a)	(a)
Irish Republic	21,761	11,545	10,610	—	(a)	(a)	(a)	13,300	5,500	5,100	—	(a)	(a)	(a)
FOREIGN COUNTRIES														
Belgium (f)	70,154	52,468	97,761	89,779	26,584	49,993	110,493	(a)	(c)	(a)	(a)	(a)	(a)	(a)
France	74,267	95,749	102,424	83,249	64,602	91,279	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Germany (d)	500	—	—	—	—	—	—	(c)	(c)	(a)	(a)	(a)	(a)	(a)
Norway	1,296	—	—	—	—	—	—	(c)	(c)	(a)	(a)	(a)	(a)	(a)
Poland (d)	5,000	10,000	—	—	—	—	—	(c)	(c)	(a)	(a)	(a)	(a)	(a)
Spain	20,031	18,318	19,884	22,652	22,728	23,707	24,499	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Sweden	168,424	49,929	7,574	1,418	1,579	2,012	1,017	(a)	(a)	(a)	(a)	(a)	(a)	(a)
U.S.S.R. (d)	1,600,000	1,600,000	2,000,000	2,300,000	2,500,000	2,500,000	2,750,000	1,070,000	1,060,000	1,320,000	1,500,000	1,600,000	1,600,000	1,760,000

(f) Including Phosphatic chalk.

(a) Information not available.

(b) Phosphatic guano.

(c) Exports.

(d) Estimated by International Superphosphate Manufacturers' Association.

(e) Bat guano.

PRODUCTION OF PHOSPHATE-ROCK (Cont.)

Producing Country	Estimated Tribasic Phosphate of Lime Content or equivalent.										
	1945	1946	1947	1948	1949	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)											
Algeria	395,000	575,600	702,517	660,000	638,000	666,400	764,300	482,000	415,000	433,000	482,000
Egypt	343,698	289,403	365,363	371,051	344,945	390,934	492,956	306,000	274,000	254,000	306,000
French West Africa (f) ..	..	..	..	..	..	..	..	..	..	..	..
Morocco (French)	1,627,995	2,739,675	2,913,966	3,175,300	3,634,635	3,811,084	4,642,300	3,342,000	2,617,000	2,744,000	3,342,000
Tunis	695,200	1,377,700	1,727,500	1,834,300	1,419,200	1,500,700	1,652,400	1,008,000	894,000	946,000	1,008,000
Netherlands West Indies ..	10,256	77,432	77,978	57,900	111,230	90,500	(b) 106,896	79,000	82,000	67,000	79,000
United States	5,399,739	7,168,839	9,110,989	9,388,160	8,877,474	11,114,159	10,775,032	7,441,000	6,264,000	7,790,000	7,441,000
Brazil	(d) 4,000	(d) 4,000	36,468	33,786	12,142	(d) 12,500	2,300	7,000	7,000	7,000	7,000
Chile	12,994	(a)	48,460	58,587	48,531	45,730	36,595	22,800	29,600	27,800	22,800
China (d)	(a)	(a)	(a)	20,000	20,000	20,000	20,000	14,000	14,000	14,000	14,000
Indonesia	2,000	(a)	(d) 175,000	108,918	d 240,271	d 240,000	142,161	—	160,000	160,000	95,000
Japanese Islands	(a)	(d) 100,000	(d) 175,000	108,918	d 240,271	(a)	(c) 10,000	—	(a)	(a)	(a)
Jordan	(b) 4,867	(b) 4,024	(b) 6,038	(d) 4,000	(a)	(a)	(c) 10,000	—	(a)	(a)	(a)
Angaur Island	(a)	(e)	(e)	(c)	(e)	(e)	(e)	—	(e)	(e)	(e)
French Oceania	255,000	237,300	193,330	184,385	260,913	266,027	248,000	203,000	214,000	218,000	203,000
TOTAL	10,700,000	14,430,000	17,500,000	18,350,000	18,230,000	20,830,000	21,880,000	—	160,000	160,000	95,000
WORLD'S TOTAL	10,790,000	14,640,000	18,100,000	19,300,000	19,596,000	22,520,000	23,490,000	—	160,000	160,000	95,000

(a) Information not available.

(b) Exports.

(c) Estimated.

(d) Estimated by International Superphosphate Manufacturers' Association.

(e) Included with "Japanese Islands."

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

PRODUCTION OF SUPERPHOSPHATES

(Long tons)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom	906,600	962,200	966,400	1,103,646	1,123,679	1,048,188	782,058
Union of South Africa*	221,430	275,686	288,395	305,992	403,511	517,857	399,302
Canada (c)	210,797	205,000	228,922	222,857	215,625	(e) 220,000	(e) 210,000
India	—	—	5,000	21,358	46,724	51,708	61,018
Australia (c)	829,453	1,105,304	1,170,489	1,186,062	1,423,137	1,483,458	1,547,823
New Zealand (d)	426,826	534,224	553,889	557,653	616,382	635,955	595,792
Irish Republic	(b) 82,840	(b) 129,795	(b) 141,648	149,100	138,925	162,255	160,199
FOREIGN COUNTRIES							
Belgium	307,800	448,717	603,107	381,019	335,995	366,817	394,946
Czechoslovakia*	390	78,864	199,897	207,926	(e) 200,000	(e) 250,000	(e) 230,000
Denmark	62,884	296,533	369,247	413,979	426,107	410,787	411,305
Finland	19,359	111,762	97,404	127,168	193,275	225,831	235,914
France	125,005	1,095,761	1,392,116	1,653,085	1,182,605	1,175,813	1,243,000
Germany*	(h) 15,445	(e) 160,000	(e) 345,000	(e) 500,000	(e) 600,000	(e) 650,000	(e) 650,000
Greece (g)*	21,629	73,236	71,758	69,860	97,473	70,666	152,308
Hungary*	853	2,136	(e) 16,000	37,283	(e) 40,000	(e) 40,000	(e) 75,000
Italy	173,661	616,148	1,018,765	1,179,924	1,458,019	1,454,554	1,668,678
Netherlands (g)	83,175	580,525	623,565	780,458	836,029	869,588	863,544
Norway	11,299	18,278	25,456	34,006	35,135	65,146	74,294
Poland	(e) 25,000	(f) 156,633	(f) 188,387	(f) 275,215	(f) 392,034	(f) 382,183	270,000
Portugal	289,492	235,564	239,763	298,062	298,661	308,783	390,998
Spain	527,503	283,180	351,780	696,913	822,683	924,713	1,040,343
Sweden	297,969	332,388	295,871	383,962	428,893	461,649	485,239
Switzerland	12,043	24,297	21,751	20,400	17,960	(e) 18,000	15,800
U.S.S.R. (e)*	1,600,000	1,600,000	2,000,000	2,300,000	2,500,000	2,500,000	3,000,000
Yugoslavia (e)*	17,000	40,000	40,000	40,000	40,000	25,000	30,000
Canary Islands	10,202	5,088	3,822	9,813	16,000	16,000	15,956
Egypt*	15,835	14,972	21,707	37,365	58,306	67,634	87,088
Algeria	48,500	90,482	97,669	107,029	81,475	83,756	108,072
Morocco (French)	26,430	48,059	52,000	54,000	54,100	68,900	82,700
Tunis	8,810	24,428	40,429	31,528	42,900	48,800	53,199
Cuba*	(a)	(a)	(a)	(e) 18,000	23,276	25,000	30,000
Mexico*	(a)	(a)	9,000	7,938	(e) 16,003	(e) 16,000	21,000
United States (g)*	7,289,326	7,769,053	9,209,566	9,424,474	9,387,564	9,720,537	9,497,770
Brazil*	27,060	30,692	39,929	25,000	26,000	26,000	71,000
Israel*	12,500	14,100	3,300	(e) 3,000	5,531	10,198	11,283
Japan	10,830	168,512	697,739	939,476	1,142,485	1,385,759	1,481,813
Turkey	5,277	3,744	4,397	5,482	8,457	12,926	18,518
World's Total (g)	13,724,000	17,539,000	21,434,000	23,609,000	24,735,000	25,800,000	26,466,000

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

(e) Estimated.

(f) Including bone meal.

(g) Including Triple superphosphate converted to ordinary superphosphate.

(h) P₂O₅ content for Western Germany only. Comparable figures for later years are as follows (long tons):—1946—19,379; 1947—43,207; 1948—54,566; 1949—62,559; 1950—73,290; 1951—71,553.

PRODUCTION OF BASIC SLAG

(Long tons)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Great Britain (b)	537,685	587,156	538,546	577,215	634,956	658,908	622,195
FOREIGN COUNTRIES							
Belgium	100,776	395,194	536,333	(a)	(a)	(a)	(a)
France	165,522	578,268	686,490	961,254	1,230,219	1,150,106	1,123,200
Germany	(a)	(a)	(a)	601,000	1,053,000	1,339,000	1,442,000
Luxemburg	61,000	258,000	426,000	550,000	525,000	488,000	597,000
Sweden	12,972	12,780	13,324	13,953	12,277	(a)	(a)

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

(a) Information not available.

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

EXPORTS OF PHOSPHATES, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Superphosphates	10,869	1,436	4,052	18,655	1,936	3,186	1,564
Basic slag	196	1,621	1,053	2,043	(a)	(a)	(a)
Seychelles—							
Phosphatic guano	6,867	20,726	14,061	21,237	13,727	9,691	4,404
South West Africa—							
Phosphatic guano	27	1,638	2,191	1,022	938	568	772
Uganda—							
Phosphates	—	—	—	—	—	—	2,207
Union of South Africa—							
Superphosphates	(a)	15,076	15,628	22,088	25,413	(a)	(a)
Canada—							
Phosphatic fertilizer	144,016	126,019	145,867	120,249	130,815	108,224	127,276
Christmas Island (d)—							
Phosphate-rock	(b) 6,000	32,750	104,451	174,765	243,475	315,361	333,343
Palestine—							
Phosphatic fertilizer	4,537	4,347	(a)	(a)	(a)	(a)	(a)
Australia—							
Superphosphates	80	202	566	858	1,221	356	987
New Zealand—							
Superphosphates	—	—	—	1	1	1	2
Nauru Island—							
Phosphate-rock	—	57,650	174,800	535,700	789,400	1,053,450	928,050
Ocean-Island—							
Phosphate-rock	—	29,200	209,100	124,850	260,900	247,250	252,400
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Phosphate-rock	4,435	(a)	(a)	33,441	1,648	9,609	6,579
Superphosphates	(a)	(a)	(a)	339,470	360,089	329,202	323,484
Di-calcium superphosphate	(a)	(a)	(a)	77,000	50,784	50,720	80,210
Basic slag	(a)	(a)	618,082	817,718	899,624	818,302	1,094,598
Czechoslovakia—							
Superphosphates	(a)	—	30	(c) 9,994	(a)	(a)	(a)
Denmark—							
Superphosphates	—	152	54	12,231	17,362	12,031	7,928
France—							
Phosphate-rock	1,156	3,384	2	45	24	599	2,816
Superphosphates	298	21,448	36,034	82,128	160,775	118,577	122,842
Basic slag	5,804	56,076	65,192	91,919	292,776	334,492	235,241
Di-calcium phosphates	(a)	(a)	(a)	834	818	628	810
Germany (Federal)—							
Phosphate-rock	(a)	(a)	(a)	—	257	—	3,445
Superphosphates	(a)	(a)	(a)	—	—	7,374	16,491
Italy—							
Superphosphates, including bone superphosphates	(a)	(a)	995	83,281	218,511	54,778	15,840
Netherlands—							
Superphosphates	(a)	27,207	207,627	321,927	364,360	468,995	464,120
Basic slag	(a)	36	—	5	—	—	—
Portugal—							
Superphosphates	43,688	44,087	1,575	144	29,128	51,512	52,236

(a) Information not available.

(b) Estimated.

(c) January to October only.

(d) Including exports to the Federation of Malaya.

EXPORTS OF PHOSPHATES, ETC. (Cont.)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Spain—							
Superphosphates, etc. ..	11,887	87,395	5,944	5,569	35,760	29,222	88,439
Sweden—							
Phosphate-rock	—	308	1,200	1,069	1,476	—	—
Superphosphates	11,318	2,953	—	—	—	—	—
Switzerland—							
Basic slag	—	36	5	—	5	—	—
U.S.S.R.—							
Apatite	} (c)	(c)	(c)	(c)	(c)	(c)	(c)
Other phosphate-rock ..							
Algeria—							
Phosphate-rock	311,405	501,945	667,894	599,419	560,965	598,188	684,414
Superphosphates	8,691	8,467	5,192	13,908	4,900	7,087	18,423
Egypt—							
Phosphate-rock	267,352	307,092	337,589	329,440	143,323	492,000	(a)
French West Africa—							
Aluminium phosphates	—	—	—	—	5,202	9,385	30,215
Morocco (French)—							
Phosphate-rock	1,431,793	2,338,278	3,125,347	3,081,944	3,483,382	4,076,890	4,379,922
Morocco (Spanish)—							
Superphosphates	155	168	40	(a)	(a)	(a)	(a)
Tunis (including re-exports)—							
Phosphate-rock	566,106	1,650,368	1,677,595	1,858,003	1,764,127	1,547,000	2,064,594
Hyperphosphates	—	—	—	—	114,373	142,274	140,900
Netherlands West Indies—							
Phosphate-rock	8,631	72,431	77,978	57,900	91,546	90,500	106,895
United States—							
Phosphate-rock	493,591	633,340	753,317	1,141,364	1,257,962	1,832,048	1,726,979
Superphosphates (b) ..	184,961	241,335	232,586	382,840	315,988	242,562	266,689
Angaur Island—							
Phosphate-rock	(a)	(a)	175,000	109,000	240,000	150,000	142,161
French Oceania—							
Phosphate-rock	228,064	228,134	205,027	180,212	235,749	250,802	224,259
Japan—							
Superphosphates	—	—	109,110	72,899	(a)	(a)	(a)
Jordan—							
Phosphate-rock	4,867	3,960	5,962	—	—	(a)	(a)

(a) Information not available.

(b) Including concentrated superphosphate.

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

	1945	1946	1947	1948	1949	1950	1951
United Kingdom	29,339	—	—	—	—	—	—
Belgium	(a)	(a)	87,359	—	(a)	—	—
France	(a)	(a)	—	—	—	—	—
Germany	(a)	(a)	(a)	(a)	—	—	—
Netherlands	(a)	—	47,954	33,667	—	—	—
Norway	25,116	15,979	26,866	23,812	16,277	34,243	(a)
Sweden	7,693	14,742	35,873	53,156	31,156	(a)	(a)
United States	12,804	—	—	—	—	—	(a)

IMPORTS OF PHOSPHATES, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Phosphate-rock	642,702	864,035	905,730	983,869	1,086,653	1,109,294	1,030,083
Superphosphates	70,672	204,203	37,126	91,443	87,829	168,573	294,457
Basic slag	—	10,152	60,821	97,423	219,551	258,173	171,190
Kenya—							
Superphosphates, basic slag, etc.	(a)	(a)	(a)	(b) 2,949	3,782	10,940	7,202
Mauritius—							
Phosphatic guano	2,067	2,934	2,996	2,575	2,842	2,775	2,921
Superphosphates	—	—	1,000	12	100	100	256
Southern Rhodesia—							
Superphosphates	12,486	17,078	14,198	22,427	21,364	28,910	46,404
South West Africa—							
Superphosphates	(a)	840	873	642	655	(a)	(a)
Tanganyika—							
Superphosphates, basic slag, etc.	(a)	(a)	(a)	68	132	2,741	1,383
Uganda—							
Superphosphates, basic slag, etc.	(a)	(a)	(a)	(c)	4	7	39
Union of South Africa—							
Phosphate-rock	190,710	188,380	212,969	168,868	237,435	308,306	(a)
Superphosphates	—	5,000	45,638	35,830	22,526	45	(a)
Canada—							
Phosphate-rock	283,656	333,641	433,385	430,365	554,293	438,416	446,170
Superphosphates	59,740	85,297	126,764	106,592	149,618	163,234	167,779
Basic slag	21,567	41,001	44,614	49,740	33,433	30,900	36,139
British West Indies—							
Jamaica—							
Phosphatic fertilizers..	370	546	275	231	251	720	1,184
Trinidad and Tobago—							
Superphosphates	142	1,466	3,742	498	102	10	1,315
Basic slag	(a)	(a)	(a)	(a)	—	75	—
British Guiana—							
Superphosphates, basic slag, etc.	(d) 180	384	1,727	4,839	(a)	(a)	1,070
Ceylon—							
Phosphate-rock	19,196	17,959	16,842	22,335	24,609	31,548	38,346
Superphosphates	—	1,211	3,414	108	493	716	474
Basic slag	—	100	99	433	322	99	124
Cyprus—							
Superphosphates	(a)	(a)	8,862	14,321	17,290	20,881	24,805
Hong Kong (total imports)—							
Superphosphates, basic slag, etc.	(a)	(a)	(a)	(a)	1,968	1,176	30
India—							
Superphosphates	901	60	330	350	948	—	2,965
Ammonium phosphate	1,786	4,504	6,002	4,737	18,666	—	—
Other phosphates	1,500	2,505	995	21,844	9,608	53,445	45,070
Malaya (total imports)—							
Phosphate-rock	(a)	165	75	—	—	—	6,689
Phosphatic fertilizers ..	(a)	—	1,001	12,833	529	1,784	1,371
Palestine—							
Phosphate-rock	6,530	7,628	3,883	(a)	(e)	(e)	(e)
Australia—							
Phosphate-rock	575,353	689,098	746,518	738,139	1,016,291	1,224,779	1,050,462
Superphosphates	—	—	3,965	700	—	12,267	2,017
New Zealand—							
Phosphate-rock	214,788	310,502	281,365	309,902	402,425	206,050	397,190
Phosphatic guano	46	—	—	8,000	8,330	267	—
Basic slag	—	9,930	15,785	13,430	42,096	65,319	69,190
Other phosphates	26,557	26,432	71,646	51,380	37,719	69,115	55,938

(a) Information not available.

(d) Including Sulphate of potash.

(b) Including Uganda.

(e) See "Israel" under Foreign Countries.

(c) Included with Kenya.

IMPORTS OF PHOSPHATES, ETC. (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES (Cont.)							
Irish Republic—							
Phosphate-rock	18,240	79,224	73,300	112,746	127,865	140,791	136,394
Superphosphates	106	11	2,507	19,675	37,849	48,092	93,838
Basic slag	89	8,587	12,014	23,229	27,038	27,306	33,279
FOREIGN COUNTRIES							
Austria—							
Phosphate-rock	(a)	9,547	—	—	493	60	315
Superphosphate	(a)	(a)	28,515	40	74,181	67,873	79,939
Basic slag	(a)	(a)	3,826	15,668	125,178	92,699	142,749
Belgium-Luxemburg E.U.—							
Phosphate-rock	(a)	304,194	488,086	398,679	347,861	391,601	450,827
Superphosphates	(a)	(a)	(a)	2	1	2	5
Di-calcium superphosphates	(a)	(a)	(a)	60	35	139	220
Basic slag	(a)	(a)	(a)	1,554	—	5,398	1,287
Czechoslovakia—							
Phosphate-rock	(a)	13,838	65,642	(b) 52,516	(a)	(a)	(a)
Superphosphates		3,974	—	—	(a)	(a)	(a)
Denmark—							
Phosphate-rock	67,693	192,640	208,475	227,971	275,344	233,917	244,863
Superphosphates	—	—	—	—	1,952	62,536	49,426
Finland (total imports)—							
Phosphate-rock	27,398	71,351	150,356	177,295	219,809	194,099	302,360
Superphosphates	5,390	14,766	57,657	29,722	16,871	7,081	42,527
Basic slag	—	2	14,755	—	—	3	—
Di-calcium phosphates	(a)	(a)	(a)	14,673	4,105	7,209	6,965
France—							
Phosphate-rock	428,975	1,013,742	1,153,345	1,396,256	940,907	1,096,400	1,319,089
Superphosphates	156	78	1	357	1,397	1,905	196
Basic slag	23	12,965	438	—	—	—	59
Di-calcium phosphates	(a)	(a)	(a)	(a)	(a)	8,496	7,875
Germany (Federal)—							
Phosphate-rock, etc. ..	(a)	259,159	(d) 445,000	554,451	461,189	586,147	642,381
Superphosphates	(a)	(a)	(c)(d) 52,000	396,461	318,583	62,349	—
Basic slag	(a)	(a)	(a)	31,007	145,624	144,217	248,235
Greece—							
Phosphate-rock	(a)	57,778	38,477	55,496	60,000	42,000	75,000
Hungary—							
Phosphate-rock	(a)	—	15,413	25,934	27,000	61,000	47,000
Iceland—							
Superphosphates	—	1,072	1,422	633	2,165	2,388	2,925
Italy—							
Phosphate-rock	(a)	439,940	581,120	702,584	761,511	862,295	1,104,346
Superphosphates		—	—	—	492	677	—
Basic slag		(a)	21,345	22,899	29,151	29,500	46,509
Netherlands—							
Phosphate-rock	(a)	335,498	476,152	508,130	558,975	542,673	589,560
Superphosphates		11,251	2,744	9,747	12,645	51,262	249
Basic slag		141,533	247,400	231,134	156,728	309,203	297,658
Norway—							
Phosphate-rock	21,807	16,074	26,866	23,812	22,460	67,907	66,705
Superphosphates	20,274	87,037	66,422	71,272	122,246	90,292	65,610
Basic slag	—	10,416	4,824	7,801	4,782	3,899	7,745
Poland—							
Phosphate-rock	(a)	92,155	131,411	176,675	227,000	192,000	284,000
Portugal—							
Phosphate-rock	124,735	247,518	167,726	197,068	173,984	178,700	198,889
Basic slag	(a)	4,851	6,312	2,444	—	1,026	4,671
Spain—							
Phosphate-rock	266,244	153,362	246,350	429,220	414,953	410,596	579,166
Superphosphates, etc. ..	2,761	365	—	20	10	—	—
Basic slag	—	—	4,892	—	—	—	—

(a) Information not available.

(b) January to October only.

 (c) P₂O₅ content.

(d) Bizonal area only.

IMPORTS OF PHOSPHATES, ETC. (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Sweden—							
Phosphate-rock	51,183	178,580	186,785	217,015	253,732	335,675	422,285
Superphosphates	—	—	—	—	10,202	68,859	33,353
Basic slag	—	1	3,547	2,224	—	932	7,483
Switzerland—							
Phosphate-rock (b)	13,076	47,568	41,120	17,327	9,535	22,344	60,749
Superphosphates, etc.	1,783	8,132	5,291	6,240	7,190	11,470	11,768
Basic slag	12,961	106,732	137,057	116,497	114,707	122,385	111,563
Yugoslavia—							
Phosphates	(a)	(a)	(a)	(a)	(a)	13,562	35,720
Algeria—							
Phosphate-rock	1,057	—	—	—	—	1	—
Superphosphates	—	113	1,084	1,151	49	394	1,202
Basic slag	—	—	507	—	3,711	1,850	3,189
Egypt—							
Superphosphates	—	—	40,747	8,434	51,000	42,701	(a)
Tunis—							
Superphosphates	8,670	8,331	2,715	12,068	(a)	(a)	(a)
Cuba—							
Superphosphates	18,590	(a)	(a)	18,452	10,989	15,488	(a)
Calcium phosphate	(a)	(a)	(a)	6,138	19,741	(a)	(a)
Mexico—							
Superphosphates	—	61	127	1,265	(a)	39	684
United States—							
Phosphate-rock	141,658	59,739	43,477	48,104	64,891	87,173	89,823
Superphosphates	1,773	2,495	6,066	3,229	1,273	4,508	2,615
Basic slag	—	—	—	29	93	179	96
Ammonium phosphates	82,819	81,351	93,919	96,632	112,745	95,215	120,575
Brazil—							
Phosphate-rock	1,640	14,309	10,051	4,398	16,815	(a)	(a)
Superphosphates	20,378	17,064	44,696	42,548	50,660	127,401	(a)
Chile—							
Superphosphates	107	619	(a)	862	1,432	10	44
Colombia—							
Superphosphates	(a)	1,598	(a)	(a)	4,710	1,490	(a)
Di-calcium phosphates	(a)	2,110	(a)	(a)	(a)	(a)	(a)
French Indo-China—							
Phosphate-rock	(a)	(a)	6,053	(a)	12,185	9,762	(a)
Israel—							
Phosphate-rock	(c)	(c)	(c)	(c)	4,924	4,985	7,100
Japan (total imports)—							
Phosphate-rock	(a)	193,930	1,116,402	406,433	466,000	986,788	1,057,000
Superphosphates	(a)	(a)	2,644	(a)	(a)	(a)	(a)
Syria and Lebanon—							
Phosphates	1,626	803	(a)	(a)	(a)	(a)	(a)
Turkey—							
Phosphate-rock	(a)	3,050	4,444	3,937	5,905	4,528	18,873

(a) Information not available.

(b) Estimated on imports from producing countries.

(c) See "Palestine" under British Countries.

PLATINUM

PRODUCTION OF PLATINUM METALS

(Troy ounces)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Sierra Leone—							
Crude platinum ..	16	105	431	109	38	—	—
Union of South Africa—							
Crude (<i>Pt</i> metals content)	22,884	21,877	23,332	22,549	30,470	61,845	58,323
Matte (<i>Pt</i> metals content)	52,030	50,575	55,508	46,374	56,904	94,140	132,575
Osmiridium (crude) (<i>b</i>) ..	6,259	6,100	6,071	5,520	6,031	6,450	6,359
Canada—							
Recovered from Ontario nickel-copper ores (<i>c</i>)—							
Platinum	208,234	121,771	94,570	121,404	153,784	124,571	154,956
Other platinum metals	458,674	117,566	110,332	148,343	182,233	148,741	162,480
Australia—							
New South Wales—							
Concentrates(<i>Pt</i> content)	2	—	—	—	—	16	8
Tasmania—							
Osmiridium	109	95	99	92	39	46	33
New Zealand—							
Crude platinum ..	—	14	—	—	—	—	8
FOREIGN COUNTRIES							
Finland—							
Platinum and palladium	(a)	(a)	(a)	39	—	—	—
U.S.S.R.—							
Crude platinum (<i>d</i>) ..	150,000	175,000	150,000	125,000	100,000	100,000	100,000
Belgian Congo—							
Palladium	—	—	—	209	106	—	—
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) :—

	1945	1946	1947	1948	1949	1950	1951
Osmium	1,976	1,970	1,859	1,679	2,213	1,710	1,774
Iridium	1,768	1,691	1,677	1,483	1,964	1,594	1,692
Ruthenium	881	876	826	717	993	792	864
Platinum	847	853	785	671	891	724	802
Rhodium	49	47	42	37	56	52	57

(c) From 1945 inclusive the figures refer to the metal content of concentrates produced from nickel-copper ores. Prior to that year the figures represented 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	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
United States (b)—							
Crude platinum	26,551	22,949	13,836	13,741	17,169	22,346	25,965
Ore (<i>Pt metals content</i>) ..	—	—	—	—	—	—	—
New platinum metals recovered by refineries from gold and copper ores of domestic origin—							
Platinum	1,068	555	1,098	1,251	1,844	3,722	5,825
Palladium	3,396	2,735	3,471	4,261	5,794	11,533	5,161
Iridium, osmiridium, etc.	31	73	1	—	—	254	195
Colombia—							
Crude platinum	34,758	43,835	43,035	40,047	20,797	26,445	(c) 32,000
Bolivia—							
Platinum	(a)	253	—	—	—	—	—
Japan—							
Platinum	(a)	(a)	(a)	31	34	1,938	245
WORLD'S TOTAL (c)	998,000	567,000	505,000	532,000	578,000	605,000	687,000

(a) Information not available.

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

	1945	1946	1947	1948	1949	1950	1951
Platinum	58,942	40,385	54,190	58,527	41,734	33,894	22,799
Palladium	32,968	27,856	27,492	28,418	37,209	21,167	28,073
Iridium	812	2,002	2,089	2,214	1,101	1,064	} 2,904
Other platinum metals	3,400	2,394	3,317	4,742	3,403	1,988	

(c) Estimated.

(d) Exports.

EXPORTS OF PLATINUM*

(Domestic Produce)

(Troy ounces)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Platinum—							
Ingots, grain and powder	3,078	17,504	17,306	57,476	102,417	158,257	129,871
Other kinds, including alloys	1,623	33,939	30,790	25,939	23,245	31,725	26,156
Other platinum metals and alloys	119,477	21,273	9,940	111,501	221,644	265,774	202,012
Sierra Leone—							
Unrefined platinum ..	8	59	319	104	—	—	—
Union of South Africa—							
Osmiridium	6,341	6,142	5,958	5,081	6,351	6,368	5,960
Crude platinum metals ..	56,729	61,310	56,288	64,579	85,820	105,251	145,395
Canada—							
Concentrates, etc. (b) ..	(£2,988,238)	(£3,634,264)	(£2,893,008)	(£4,162,961)	(£4,791,495)	(£6,973,943)	(£10,284,817)
Scrap	407	933	325	537	634	192	185
Australia—							
Platinum and platinum group metals	—	159	402	12	492	31	582
New Zealand—							
Platinum, etc. (jewellers' sweepings)	29	31	11	339	73	175	66
FOREIGN COUNTRIES							
Czechoslovakia—							
Unwrought platinum and scrap	(a)	237	96	—	(a)	(a)	(a)
Denmark—							
Rods, sheets, wire, scrap, etc.	—	96	547	547	3,762	514	3,633
France—							
Unwrought platinum and scrap	—	611	1,350	675	1,833	1,382	997
Drawn or rolled platinum	225	257	129	32	—	—	836
Germany (Federal)—							
Platinum metals and alloys	(a)	(a)	(a)	—	900	4,088	2,986
Italy—							
Sheets, bars, dust, scrap, etc.	(a)	—	—	—	—	27	—
Netherlands—							
Unwrought platinum ..	(a)	482	2,604	4,533	7,363	2,792	17,458
Portugal—							
Bars	—	64	—	—	—	—	(a)
Sweden—							
Unwrought platinum ..	418	386	354	611	546	1,479	1,447
Switzerland—							
Unwrought platinum ..	32	—	643	707	161	2,636	739

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

(a) Information not available.

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

EXPORTS OF PLATINUM (Cont.)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
U.S.S.R.	(b)	(b)	(b)	(b)	(b)	(b)	(b)
Cuba—							
Platinum	418	(a)	(a)	(a)	(a)	(a)	(a)
Palladium	193	(a)	(a)	(a)	(a)	(a)	(a)
United States—							
Ores, etc. (<i>Pt. content</i>) ..	—	134	42	5	165	82	732
Ingots, sheets, wire, etc.	7,781	15,468	17,766	15,471	18,150	12,753	8,760
Palladium, rhodium, etc., and alloys	10,951	4,294	7,783	20,994	22,628	24,946	52,088
Colombia—							
Platinum	30,883	43,854	38,715	40,047	20,797	24,452	17,157

(a) Information not available.

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

	1945	1946	1947	1948	1949	1950	1951
United Kingdom ..	—	14,136	12,636	3,201	—	(a)	(a)
United States ..	77,741	106,851	94,367	67,705	—	45,896	16,075

IMPORTS OF PLATINUM*

(Less Re-exports)

(Troy ounces)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom (b)—							
Ingots, grain and powder	363	14,936	12,790	2,926	695	2,360	6,963
Other kinds, including alloys	1,294	2,439	1,271	412	275	24	62
Other platinum metals and alloys	150	1,646	3,054	(c) 796	68	13,056	332
Union of South Africa—							
Platinum	(a)	2,230	608	973	977	(a)	(a)
Canada—							
Platinum, palladium and iridium	(£912,664)	(£2,031,358)	(£1,869,090)	(£2,664,532)	(£2,846,300)	(£7,019,709)	(£5,789,129)
Palestine—							
Platinum	(£8,267)	(£56,860)	(a)	(a)	(f)	(f)	(f)
Palladium	(£12,460)	(£24,139)	(a)	(a)	(f)	(f)	(f)
Australia—							
Platinum bars, rods, etc.	} (d) 484	(d) 51	(d) 347	{ 544	202	355	515
Other platinum metals ..								1,181	377	520	(a)
New Zealand—							
Bars, sheets, wire, etc. ..	187	1,022	1,518	2,158	851	1,150	876
FOREIGN COUNTRIES							
Austria—							
Ingots, sheets, wire, etc.	(a)	(a)	96	1,415	(a)	(a)	(a)
Czechoslovakia—							
Unwrought platinum and scrap	} (a)	{ —	675	(e) 642	(a)	(a)	(a)
Bars, plates, sheets and wire			—	(e) 1,445	(a)	(a)	(a)
Denmark—							
Rods, sheets, wire and scrap	96	804	289	1,832	707	1,125	1,190
Finland (total imports)—							
Unwrought platinum ..	19	167	84	138	—	3	6
France—							
Unwrought platinum and scrap	12,314	11,446	3,183	129	1,768	482	3,729
Drawn or rolled platinum	—	932	643	—	—	—	514
Germany (Federal)—							
Platinum metals and alloys	(a)	(a)	(a)	1,929	37,423	76,742	57,539
Italy—							
Bars, dust and scrap ..	—	64	75	280	97	2,739	4,565
Sheets and foil and wire	—	64	32	305	39	163	707
Netherlands—							
Unwrought platinum ..	(a)	1,640	2,476	2,861	4,951	6,912	4,501
Norway—							
Unwrought platinum ..	—	3,582	1,645	2,020	644	855	1,689
Sheets, rolled and wire	257	409	1,439	845	1,166	903	(a)

* 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:—1945—£1,213,179; 1946—£2,058,786; 1947—£1,793,731; 1948—£2,763,196; 1949—£3,182,112; 1950—£3,799,238; 1951—£5,193,010.

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

	1945	1946	1947	1948	1949	1950	1951
Crude platinum metals	56,729	61,310	56,288	64,579	85,820	105,750	145,395
Osmiridium	6,341	6,142	5,958	5,081	6,351	5,892	6,883

(c) Excess of re-exports.

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

(e) January to October only.

(f) See "Israel" under Foreign Countries.

IMPORTS OF PLATINUM (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Portugal—							
Sheets, wire, etc. ..	27	144	385	227	107	206	260
Palladium	—	804	739	—	675	96	(a)
Spain—							
Bars, sheets, wire etc. ..	—	180	225	10	449	379	—
Sweden—							
Unwrought platinum ..	535	640	765	407	144	478	(a)
Switzerland—							
Unwrought platinum ..	547	450	1,222	322	1,254	2,218	2,251
Yugoslavia—							
Unwrought platinum ..	(a)	(a)	(a)	(a)	(a)	129	32
Egypt—							
Ingots, bars, sheets, etc.	1,772	7,592	1,374	316	311	(a)	(a)
Cuba—							
Ingots and bars	(a)	(a)	(a)	707	457	(a)	(a)
Palladium	(a)	(a)	(a)	—	103	(a)	(a)
Mexico—							
Ingots and bars	164	763	156	18	(a)	(a)	(a)
Sheets and wire	947	2,616	(a)	(a)	(a)	(a)	(a)
United States—							
Ore (b)	138,089	26,614	4,486	1,943	505	628	197
Grains and nuggets (b)	33,875	51,330	51,116	28,263	27,728	35,793	34,425
Sponge and scrap (b) ..	2,368	49,929	50,980	68,907	69,768	106,663	135,177
Ingots, bars, sheets (b) ..	70,849	65,801	55,929	40,295	28,180	105,910	158,876
Iridium	6,197	12,402	5,011	5,472	4,221	6,457	3,144
Osmium and osmiridium	982	2,645	2,588	1,995	2,857	4,759	3,603
Palladium	118,267	195,555	133,962	119,949	73,770	142,673	239,151
Rhodium and ruthenium	13,028	9,419	5,749	8,604	11,255	19,506	26,724
Argentina—							
Platinum	922	5,496	(a)	(a)	(a)	(a)	(a)
Brazil (total imports)—							
Ingots, sheets and wire	734	1,455	—	33	23	(a)	(a)
Chile—							
Ingots, bars, scrap, etc.	233	613	(a)	(a)	(a)	(a)	(a)
Uruguay—							
Ingots	} (a)	(a)	(a)	1,480	1,767	820	(a)
Palladium							
Venezuela—							
Unwrought platinum ..	64	(a)	129	32	(a)	(a)	(a)
Israel—							
Platinum	(c)	(c)	(c)	(c)	754	1,267	(a)
Palladium	(c)	(c)	(c)	(c)	2,635	22,323	(a)
Syria and Lebanon—							
Unwrought platinum	379	843	(a)	(a)	(a)	(a)	(a)
Turkey—							
Sheets	161	—	—	64	—	—	198

(a) Information not available.

 (b) *Platinum content.*

(c) See "Palestine" under British Countries.

POTASH MINERALS
PRODUCTION OF POTASH

(Long tons)

Producing Country and Description	K ₂ O Content or Equivalent													
	1945	1946	1947	1948	1949	1950	1951	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES														
Palestine— Muriate (chloride) ..	92,146	89,141	121,218	9,570	—	—	—	46,100	44,600	59,870	5,742	—	—	—
India— Nitrate	(b) 7,467	(b) 3,457	4,144	2,972	6,354	5,501	6,384	3,700	1,700	2,000	1,500	3,000	2,700	3,200
Australia— Alumite	22,259	35,852	34,731	39,832	32,694	1,301	449	455	574	1,725	1,830	1,480	60	34
TOTAL (estimated)								50,300	46,900	64,000	9,000	5,500	2,760	3,234
FOREIGN COUNTRIES														
France (c)— Sylvinite, 12-22% K ₂ O Fertilizer salts 30-40% K ₂ O ..	842,215	3,502,554	4,102,886	4,409,508	4,886,091	5,747,803	5,687,329	73,969	168,580	361,735	386,986	345,301	340,576	499,660
Chloride 50% K ₂ O and over Germany (Federal)— Kainite, sylvinite, etc.															47,931	369,870	198,232	206,177	365,894	459,240	303,583
	(a)	2,607,000	3,401,000	5,193,000	7,175,400	8,786,200	10,676,168	(e)	284,000	337,000	530,000	877,000	1,077,000	1,303,000

(a) Information not available.

(b) Exports plus consumption in tea gardens.

(c) Crude salts as mined.

PRODUCTION OF POTASH (Cont.)

Producing Country and Description	K ₂ O Content or equivalent													
	1945	1946	1947	1948	1949	1950	1951	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES(Cont.)														
Spain—														
Carnallite, sylvinite, etc.	699,275	780,791	612,327	977,064	903,655	997,430	1,042,156						174,890	193,054
Eritrea—														
Chloride	(a)	(a)	(a)	115	-420	546	(a)					200	260	
United States—														
Muriate (chloride)—														
60-62% K ₂ O (c) ..	1,123,511	1,117,043	1,244,823	1,360,658	1,351,007	1,648,624	1,828,387							
48-50% K ₂ O ..	105,069	109,158	111,714	130,067	153,996	135,310	139,104							
Fertilizer salts ..	103,391	87,797	155,487	232,446	158,317	19,225	17,656							
Sulphate, etc. (b) ..	86,159	192,908	189,562	186,198	172,938	199,204	224,558							
Chile—														
Chloride	(a)	(a)	(a)	6,550	4,941	(a)	(a)					1,400	1,419	(a)
China—														
Nitrate	(a)	(a)	(a)	(a)	(a)	(a)	(a)					(a)	(a)	(a)
Japan—														
Alumite	(a)	(a)	(a)	(a)	3,488	3,342	(a)					210	200	(a)
Korea (Southern)—														
Alumite (impure) ..	—	—	—	—	(a)	(a)	(a)					(a)	(a)	(a)
TOTAL (d)														
	2,100,000	2,500,000	2,990,000	3,600,000	3,900,000	4,500,000	4,800,000						4,500,000	4,800,000
WORLD'S TOTAL (d)	2,150,000	2,650,000	3,054,000	3,610,000	3,910,000	4,500,000	4,800,000						4,500,000	4,800,000

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

(a) Information not available.

(b) Including sulphate of potash-magnesia.

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

(d) Estimated.

EXPORTS OF POTASH SALTS

(Domestic Produce)

(Long tons)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951		
BRITISH COUNTRIES									
United Kingdom—									
Chromate and bichromate	238	460	24	424	697	653	200		
Nitrate	546	2,752	2,133	2,854	1,195	1,868	2,364		
Sulphate	6	35	86	25	34	50	68		
Other compounds ..	950	2,393	2,232	1,741	1,515	2,014	2,251		
Hong Kong (re-exports)—									
Nitrate	(a)	120	2,275	(a)	(a)	(a)	(a)		
Chlorate		630	1,529	1,927	2,500	2,709	2,065		
India—									
Nitrate	143	1,135	816	36	15	64	227		
Malaya (including re-exports)—									
Fertilizer salts	(a)	3	8	91	246	19	157		
Nitrate	(a)	—	5	1	1	5	14		
Palestine—									
Fertilizer salts	5,100	201	(a)	(a)	—	—	—		
Chloride	88,260	67,315	117,888	14,548	—	—	—		
Chlorate	36	3	(a)	(a)	—	—	—		
FOREIGN COUNTRIES									
Belgium-Luxemburg E.U.—									
Fertilizer salts	(a)	(a)	(a)	46,094	97,984	125,205	42,768		
Carbonate				2,793	2,782	2,790	1,657		
Caustic potash				5,367	2,566	3,641	3,748		
Chloride				167,388	280,323	401,263	380,217		
Chlorates				(a)	30	6	238		
Chromates, including those of sodium ..						215	124	387	712
Nitrate						998	1,729	1,111	1,328
Sulphate			92,828	92,684	80,317	123,994			
Czechoslovakia—									
Carbonate	(a)	33	1	(c) 40	(a)	(a)	(a)		
Manganate and permanganate, including those of sodium	(a)	411	100	(c) 77	(a)	(a)	(a)		
Finland—									
Chlorate	—	—	689	953	488	983	1,475		
France—									
Sylvinite, etc.	123,378	539,694	326,953	379,272	522,693	535,502	366,385		
Chloride	28,179	363,184	360,215	(e) 246,635	(e) 333,599	(e) 501,244	(e) 485,526		
Carbonate	4	3,478	6,831	5,362	4,534	6,065	7,676		
Caustic potash	835	3,228	7,555	2,932	4,061	5,541	10,140		
Chlorate	303	1,970	2,788	1,595	2,436	2,095	3,515		
Nitrate	46	1,144	4,310	3,165	4,157	4,551	3,705		
Sulphate	1,170	20,343	43,491	(b)	(b)	(b)	(b)		
Germany (Federal)—									
Fertilizer salts	(a)	(a)	(d)22,000	33,614	113,834	343,806	331,546		
Carbonate and wool grease ash				(a)	—	645	5,619	4,124	
Caustic potash				(a)	127	579	4,398	3,165	

(a) Information not available.

(c) January to October only.

(d) K₂O content.

(b) Included with chloride.

(e) Including other fertilizer salts.

EXPORTS OF POTASH SALTS (Cont.)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Germany (Cont.)—							
Chlorate	(a)	(a)	(a)	(a)	55	491	(b) 207
Manganates				—	65	236	(b) 48
Nitrate				—	88	946	1,784
Chloride				(a)	36,965	263,031	389,762
Sulphates				69,439	46,410	98,482	175,732
Netherlands—							
Caustic potash	(a)	1	3	—	61	165	723
Chloride		370	580	1,188	994	1,206	920
Nitrate		—	—	1	5	17	25
Sulphate		75	489	409	589	547	539
Spain—							
Fertilizer salts	124,470	146,726	193,462	205,827	235,929	184,160	246,093
Chlorate	17	16	52	43	22	23	116
Sweden—							
Carbonate	4	18	25	—	—	30	34
Caustic potash	368	493	999	1,579	1,837	1,210	2,316
Switzerland—							
Nitrate (crude)	41	271	298	14,172	1,256	15,449	8,686
United States—							
Chloride	76,200	69,872	76,587	75,214	82,235	82,024	84,245
Sulphate	8,055	—	(a)	(a)	(a)	(a)	(a)
Other fertilizer salts	9,215	16,576	15,322	17,800	17,011	14,380	13,200
Chromates	665	1,745	1,000	1,147	1,270	372	1,611
Caustic potash	7,468	7,980	8,315	9,704	2,380	1,801	3,578
Carbonates, etc.	2,559	11,619	10,302	10,482	10,277	6,010	8,305
Chlorates, etc.	1,439						
Nitrates, etc.	3,363						
Other compounds	1,125						
Chile—							
Chloride	2,283	2,590	2,174	—	(a)	(a)	(a)
Nitrate	715	701	165,669	103,177	52,655	73,619	52,388
Chlorate	155	101	169	551	(a)	(a)	(a)

(a) Information not available.

(b) January to September only.

IMPORTS OF POTASH SALTS

(Less Re-exports)

(Long tons)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Fertilizer salts	—	—	—	—	664	691	9,321
Carbonate	—	148	215	354	476	3,946	6,660
Caustic potash and lyes	2,471	1,834	834	1,213	229	1,356	2,554
Chlorate	3	265	532	607	859	815	794
Chloride	164,685	223,281	315,675	438,036	394,192	396,847	445,047
Nitrate	(c) 5	297	110	25	(c) 37	244	489
Sulphate	—	2,964	17,315	18,177	20,901	13,850	13,681
Other compounds	47	277	531	278	1,201	489	1,123
Kenya—							
Fertilizer salts	(a)	(a)	(a)	(a)	123	178	109
Mauritius—							
Nitrate	—	500	—	1,976	991	988	1,482
Northern Rhodesia—							
Compounds	91	52	62	74	11	44	68
Southern Rhodesia—							
Compounds	52	35	56	65	109	56	95
Tanganyika—							
Fertilizer salts	(a)	(a)	(a)	6	60	50	146
Uganda—							
Fertilizer salts	(a)	(a)	(a)	(a)	1	12	46
Union of South Africa—							
Fertilizer salts	(b) 4,696	3,404	8,760	3,846	129	(a)	(a)
Nitrate	—	112	22	60	65	(a)	(a)
Caustic potash	(b) 159	210	261	265	244	219	(a)
Other compounds	(b) 377	461	3,153	1,285	1,141	(a)	(a)
Canada—							
Fertilizer salts	10,328	6,611	7,141	7,634	6,181	2,043	1,545
Caustic potash	1,178	1,951	2,335	3,156	1,578	2,141	2,168
Chlorate	1	147	40	24	26	32	71
Crude chloride	62,693	69,863	86,366	92,150	90,136	87,954	92,650
Nitrate	655	366	261	355	439	448	634
Crude sulphate	3,522	3,809	2,596	4,634	5,635	7,195	10,012
Other compounds	809	765	772	687	1,046	1,124	1,436
British West Indies—							
Barbados—							
Fertilizer salts	332	2,783	5,167	3,250	3,687	6,289	4,396
Jamaica—							
Fertilizer salts	508	342	406	1,305	2,083	1,624	3,584
St. Vincent—							
Chloride	—	10	—	10	(a)	(a)	(a)
Sulphate	—	(a)	—	—	(a)	(a)	(a)
Trinidad and Tobago—							
Chloride and sulphate	271	160	1,062	960	1,241	630	1,467
Ceylon—							
Chloride	3,893	6,740	7,484	5,540	12,966	18,535	24,081
Nitrate of potash refuse	—	—	—	—	—	3	—
Sulphate	—	10	38	675	124	149	50
Hong Kong (total imports)—							
Nitrate	(a)	202	446	(a)	(a)	(a)	(a)
Chlorate	(a)	1,560	3,526	1,571	3,541	3,283	2,681
India—							
Bichromate	7	—	50	3	—	—	2
Chlorate	185	12	435	930	523	574	860
Chloride	1,530	1,108	2,933	1,528	4,561	4,613	13,561
Other compounds	558	800	889	2,288	4,148	1,133	2,825
Malaya (total imports)—							
Fertilizer salts	(a)	136	3,815	280	4,824	2,078	4,808
Nitrate	(a)	53	4	—	41	10	84
Palestine—							
Chlorate	—	20	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

(b) Total imports.

(c) Excess of re-exports.

IMPORTS OF POTASH SALTS (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951		
BRITISH COUNTRIES (Cont.)									
Australia—									
Bichromate	125	61	5	37	78	(c) 53	(a) 894		
Carbonate	229	831	494	665	454	569	605		
Caustic potash	196	660	686	1,503	222	230	23		
Chlorate	130	—	104	3	17	6	6		
Chloride	(c) 3,329	(c) 7,245	(c) 6,356	(c) 10,707	13,423	12,992	9,716		
Nitrate	95	124	139	35	218	269	805		
Sulphate	—	—	—	(c) 150	196	734	865		
New Zealand—									
Caustic potash and pearl-ash	39	5	70	146	50	33	81		
Chlorate	55	23	40	32	259	45	47		
Chloride	5,558	3,661	7,941	2,146	5,272	10,599	13,217		
Nitrate	2	1	22	11	10	94	64		
Sulphate	215	223	645	550	2,476	1,854	1,408		
Other fertilizer salts ..	17	36	17	4	—	130	190		
Compounds other than fertilizer (£N.Z.) ..	(£8,226)	(£9,070)	(£16,968)	(a)	147	4	44		
Irish Republic—									
Kainite	—	—	1	2,668	—	—	—		
Fertilizer salts (20-40% K ₂ O)	1	—	1	1,367	6,039	3,002	—		
Chlorate	52	21	45	68	81	101	80		
Chloride	1,538	2,662	13,414	11,490	9,108	22,512	29,935		
Nitrate	55	46	55	40	141	215	95		
Sulphate	1	—	370	421	535	845	530		
Other compounds ..	33	35	43	87	48	77	126		
FOREIGN COUNTRIES									
Austria—									
Fertilizer salts	(a)	(a)	{	8,135	66,639	43,037	88,257		
Caustic potash				37					
Carbonate				64					
Chromates				33					
Nitrate				37					
Belgium-Luxemburg E.U.—									
Fertilizer salts	19,715	(a)	(a)	253,135	447,221	408,726	161,523		
Carbonate	{	(a)	{	1,131	1,179	3	1,025		
Caustic potash				1,323	946	3,188	1,142		
Chlorates				2,049	631	820	4,718		
Chloride				304,640	414,390	574,478	773,902		
Chromates, including those of sodium ..				(a)	(a)	(a)	250	610	784	813
Manganate and permanganate	{	(a)	{	59	(a)	160	214		
Nitrate				41	27	113	124		
Sulphate				4,168	6,340	3,396	7,249		
Bulgaria—									
Carbonate	14	55	{	(a)	(a)	(a)	(a)		
Caustic potash	42	13							
Chloride	41	216							
Chromates	—	19							
Nitrate	103	118							
Czechoslovakia—									
Kainite	(a)	{	(b)	—	(a)	(a)	(a)		
Fertilizer salts (38-44% K ₂ O)				20					
Fertilizer salts (other) ..				86,157				100,146	(b) 80,770
Carbonate and nitrate ..				4,921				—	(b) —
Chloride				—				690	(b) 515
Sulphate	—	13,759	(b) 10,837						
		2,953	(b) —						

(a) Information not available.
 (c) Years ended June 30 of that stated.

(b) January to October only.

IMPORTS OF POTASH SALTS (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Denmark—							
Kainite	2,160	—	—	—	—	—	—
Fertilizer salts	26,398	65,290	207,374	150,203	190,275	223,091	228,889
Carbonate	35	311	138	456	558	931	602
Caustic potash	253	919	605	1,161	1,194	1,557	825
Chlorate	78	99	80	139	187	170	154
Chloride	—	533	82	921	213	43	523
Chromates	52	46	—	45	36	30	54
Nitrate	12	462	380	335	587	739	939
Sulphate	—	1	4	2	11	10	10
Finland (total imports)—							
Fertilizer salts	4,898	36,106	73,791	82,373	91,991	55,000	72,166
Carbonate	17	103	139	186	303	178	218
Caustic potash	39	65	31	62	79	34	134
Chloride	295	758	1,461	591	1,446	2,108	1,973
Nitrate	—	17	33	37	55	30	100
France—							
Fertilizer salts	(a)	(a)	(a)	—	3,935	2,724	10,969
Carbonate	4	22	—	—	—	—	—
Caustic potash	33	7	15	15	14	5	12
Chlorate	—	—	—	—	—	37	—
Chloride	—	—	—	1	—	—	(a)
Sulphate	1,170	—	—	—	6	4	(a)
Germany (Federal)—							
Fertilizer salts				—	11,508	—	—
Carbonate and wool grease ash				761	358	4	26
Caustic potash	(a)	(a)	(a)	153	2	197	(b) 199
Chlorate				(a)	421	596	(b) 1,022
Manganates				26	157	30	406
Nitrate				—	34	—	10
Greece—							
Carbonate	263	8	146	618	393	2,162	481
Caustic potash	102	20	13	83	63	22	11
Nitrate	(a)	125	55	10	31	126	123
Iceland—							
Fertilizer salts	246	450	(a)	(a)	886	1,561	1,783
Carbonate	13	8	(a)	(a)	(a)	(a)	(a)
Caustic potash	22	29	(a)	(a)	38	10	54
Italy—							
Fertilizer salts	(a)	(a)	18,098	26,471	44,751	48,562	67,695
Carbonate	(a)	(a)	1,216	683	1,294	1,986	2,986
Caustic potash	(a)	(a)	1,346	2,813	2,813	2,861	4,082
Netherlands—							
Kainite				62,622	18,393	47,147	48,657
Fertilizer salts (20% K ₂ O)		30,829	42,699	22,482	61,143	44,896	36,458
do. (40% K ₂ O)		98,429	162,614	181,379	274,008	298,199	282,331
do. (50% K ₂ O)		22,673	1,614	2,036	166	—	—
Caustic potash	(a)	590	649	6,129	1,619	3,958	4,992
Chloride		7,281	11,851	24,762	16,551	3,263	5,484
Nitrate		156	198	220	169	1,891	1,647
Sulphate		3,228	13,429	31,907	24,806	48,370	10,420
Patent potash		—	—	1,716	—	—	41,724
Norway—							
Fertilizer salts	2,282	52,150	55,991	83,492	113,532	78,255	109,794
Carbonate	343	353	291	396	486	377	417
Caustic potash and lyes	400	704	979	1,406	2,188	1,077	1,554
Chloride	10	7,251	3,569	8,403	16,551	10,700	7,480
Nitrate	210	122	115	93	169	106	(a)
Portugal—							
Carbonate	14	53	111	51	15	42	86
Caustic potash	2	47	44	70	19	15	97
Chlorate	177	171	231	240	138	290	305
Chloride	20,488	9,858	11,850	4,639	10,139	7,910	9,803

(a) Information not available.

(b) January to September only.

IMPORTS OF POTASH SALTS (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Portugal (Cont.)—							
Chromate	6	140	28	3	3	1	(a)
Nitrate	278	198	249	122	173	—	(a)
Sulphate	(a)	(a)	(a)	(a)	(a)	(a)	1,821
Sweden—							
Fertilizer salts (20% K ₂ O)	—	10	—	—	—	—	—
do. (40% K ₂ O)	1,821	93,274	130,075	102,966	120,443	142,827	159,250
do. (other) ..	—	17,945	197	156	10	43	499
Carbonate	238	804	1,052	1,065	761	934	1,367
Caustic potash ..	247	857	510	346	59	91	144
Chloride	—	7,087	16,631	13,958	7,516	9,609	14,726
Nitrate	108	592	412	223	610	542	(a)
Switzerland—							
Fertilizer salts	52,811	42,365	46,013	44,617	43,519	58,434	64,886
Carbonate	88	746	649	628	676	948	1,231
Caustic potash ..	599	1,435	2,395	2,234	1,105	2,230	2,389
Chloride	433	2,150	2,566	2,721	1,264	2,183	3,181
Nitrate, crude ..	—	49	—	—	—	—	—
Nitrate, purified, including sodium nitrate ..	39	707	737	878	319	932	547
Yugoslavia—							
Fertilizer salts	}	(a)	(a)	(a)	(a)	}	4,921
Carbonate							26
Caustic potash ..							54
Chlorate and chloride ..							159
Nitrate							98
Sulphate							69
Algeria—							
Fertilizer salts	7,314	22,666	21,489	31,579	21,306	24,214	24,282
Carbonate	2	50	—	77	7	6	29
Caustic potash ..	61	45	40	83	35	39	27
Nitrate	12	20	15	100	16	38	22
Sulphate	—	3,495	9,058	182	(a)	(a)	(a)
Egypt—							
Fertilizer salts	—	—	—	1	45	449	(a)
Carbonate	2	83	37	113	163	(a)	(a)
Caustic potash ..	146	59	144	87	4	(a)	(a)
Chlorate	93	124	77	166	124	(a)	(a)
Chromates, including those of sodium ..	193	632	600	572	293	(a)	(a)
Manganates	8	26	23	40	20	(a)	(a)
Madagascar—							
Fertilizer salts	(a)	611	373	530	(a)	(a)	(a)
Caustic potash ..	1	5	1	24	(a)	(a)	(a)
Mozambique—							
Carbonate	—	15	15	—	30	6	1
Tunis—							
Carbonate	4	1	3	5	(a)	(a)	(a)
Caustic potash ..	—	16	—	3	(a)	(a)	(a)
Chlorate	8	1	1	53	(a)	(a)	(a)
Chloride	37	2,121	632	1,979	(a)	(a)	(a)
Nitrate	1	6	12	16	(a)	(a)	(a)
Sulphate	1	492	251	1,476	(a)	(a)	(a)
Cuba—							
Nitrate, including nitrate of soda	22,190	(a)	(a)	18,954	13,143	(a)	(a)
Chlorate	86	(a)	(a)	309	169	(a)	(a)
Chloride	(a)	(a)	(a)	2,944	8,037	(a)	(a)
Sulphate	(a)	(a)	(a)	2,713	8,323	(a)	(a)
Mexico—							
Nitrate	15,694	11,236	(a)	(a)	(a)	(a)	(a)
Caustic potash ..	369	3,015	3,084	9,227	(a)	(a)	(a)
Chlorate	712	830	(a)	(a)	(a)	(a)	(a)
Carbonate	35,568	24,693	(a)	(a)	(a)	(a)	(a)
Sulphate	2	2	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

IMPORTS OF POTASH SALTS (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
United States—							
Fertilizer salts	—	—	71	476	912	1,287	520
Carbonate	—	2	8	3	2	4,710	1,987
Caustic potash	18	40	30	81	32	726	1,469
Chlorates	333	469	179	37	140	306	330
Chloride	6,126	3,082	31,504	31,789	26,005	264,216	439,850
Cyanide	—	—	20	22	—	636	835
Nitrate	—	—	—	—	6	175	5,866
Potassium-sodium nitrate mixtures	—	3,929	2,232	—	6,074	18,240	7,365
Sulphate	—	—	8,956	10,540	563	38,388	46,746
Argentina—							
Bichromate	2	87	} (a)	(a)	(a)	(a)	(a)
Carbonate	—	134					
Caustic potash	167	570					
Chlorate	374	273					
Cyanide	17	28					
Nitrate	757	124					
Sulphate	—	—					
Brazil (total imports)—							
Caustic potash	91	217	881	167	84	(a)	(a)
Nitrate	975	703	906	1,168	881	(a)	(a)
Chloride	3,266	3,655	16,466	11,462	16,448	(a)	(a)
Sulphate	132	441	1,396	1,626	1,002	(a)	(a)
Carbonate	204	211	375	91	316	(a)	(a)
Chlorate	415	1,149	656	1,064	857	(a)	(a)
Chile—							
Bichromate	10	86	(a)	(a)	(a)	(a)	(a)
Carbonate	17	46	(a)	(a)	(a)	(a)	(a)
Caustic potash	31	61	(a)	(a)	(a)	(a)	(a)
Chlorate	108	81	(a)	(a)	(a)	(a)	(a)
Nitrate	—	—	(a)	(a)	(a)	(a)	(a)
Colombia—							
Carbonate	8	4	} (a)	(a)	(a)	(a)	(a)
Caustic potash	13	19					
Chlorate	134	259					
Nitrate	79	249					
Sulphate	—	57					
					158	289	
Peru—							
Caustic potash	19	8	(a)	(a)	(a)	(a)	(a)
Other salts	303	355	(a)	(a)	(a)	(a)	(a)
Uruguay—							
Nitrate	(a)	(a)	(a)	234	609	321	(a)
Caustic potash	(a)	(a)	(a)	31	11	52	(a)
Venezuela—							
Carbonate	(a)	1	(a)	13	} (a)	(a)	(a)
Caustic potash	38	42	78	45			
Chlorate	(a)	49	(a)	21			
Nitrate	31	66	51	427			
Japan—							
Fertilizer salts	(a)	56,454	62,525	52,657	(a)	(a)	(a)
Syria and Lebanon—							
Fertilizer salts	592	898	(a)	(a)	(a)	(a)	(a)
Caustic potash	3	1	(a)	(a)	(a)	(a)	(a)
Turkey—							
Carbonate	855	164	623	231	1,150	826	871
Caustic potash	1	86	27	97	72	89	106
Chlorates	—	165	291	3	25	7	129
Chromates	43	18	80	43	89	89	59
Nitrate	2	263	105	50	356	287	16
Other salts	15	42	47	25	25	65	161

(a) Information not available.

PYRITES

PRODUCTION OF PYRITES*

(including Cupreous Pyrites)

(Long tons)

Producing Country	Estimated Sulphur Content													
	1945	1946	1947	1948	1949	1950	1951	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES														
Great Britain	23,069	20,628	9,946	3,862	16,919	13,288	13,288	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Kenya	—	407	—	—	—	—	—	14,500	10,600	7,500	5,700	7,300	6,000	—
Southern Rhodesia	32,937	24,117	16,873	13,016	16,701	13,592	27,822	16,480	16,292	14,927	15,212	15,033	15,377	12,200
Union of South Africa	37,947	37,443	34,271	35,424	34,966	35,457	32,851	16,480	16,292	14,927	15,212	15,033	15,377	14,245
Canada (sales) (c)	203,324	180,299	199,164	164,348	223,639	279,120	(a)	98,396	86,195	73,783	77,791	104,983	134,363	(a)
Cyprus (saleable)	26,365	191,948	427,879	407,662	660,162	596,736	624,569	12,919	95,014	210,944	196,901	320,179	293,981	306,799
Australia	116,000	117,800	117,800	89,412	88,060	118,078	151,388	55,200	55,000	55,300	41,564	40,373	50,900	71,619
TOTAL	440,000	573,000	766,000	714,000	1,040,000	1,056,000	1,130,000							
FOREIGN COUNTRIES														
Austria	(a)	3,768	6,163	7,747	11,440	13,315	10,075	(a)	(a)	(a)	2,896	4,000	3,157	2,703
Czechoslovakia	(a)	7,700	(a)	(a)	(a)	(a)	(a)	48,000	55,000	66,000	78,000	79,000	(a)	(a)
Finland (b)	108,578	124,315	149,863	174,708	177,197	159,491	228,873	67,400	86,000	76,200	80,560	83,900	69,000	97,000
France (c)	167,000	216,821	195,434	178,814	202,149	243,774	276,400	67,400	86,000	76,200	80,560	83,900	104,857	115,000
Germany (Federal)	(a)	d 208,900	d 315,800	d 377,000	423,600	516,900	524,758	(a)	(a)	126,400	151,000	174,000	188,500	191,524
Greece	(a)	63,177	57,256	19,022	20,654	86,293	178,400	(a)	30,300	27,300	(a)	(a)	(a)	87,400
Italy	101,710	394,193	618,868	821,839	852,499	881,316	883,840	(a)	190,000	300,000	382,000	392,000	415,000	415,000
Norway	243,557	531,324	708,643	723,412	733,000	736,967	685,056	(a)	229,035	305,418	309,565	312,956	312,846	290,692
Poland	(a)	27,807	39,033	(f) 54,000	(f) 54,000	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Portugal	168,267	310,000	382,686	552,274	613,092	603,801	718,103	75,720	139,501	172,209	248,524	275,892	271,710	323,145

* See also Sulphur (page 293).

(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):—1945—5,771; 1946—5,839; 1947—6,496; 1948—7,351; 1949—9,240.

1950—11,116; 1951—(a).

(f) Estimated.

PRODUCTION OF PYRITES (Cont.)

Producing Country	Estimated Sulphur Content													
	1945	1946	1947	1948	1949	1950	1951	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)														
Spain	885,538	1,157,403	995,014	1,359,532	1,234,991	1,509,564	1,775,045	429,000	561,000	483,000	659,000	599,000	732,000	861,000
Sweden	257,846	275,783	305,666	385,841	417,310	400,384	400,507	129,026	134,621	145,271	179,113	201,846	199,105	199,200
Yugoslavia .. .	(a)	48,000	75,000	90,000	72,000	115,317	151,350	(a)	20,000	31,000	37,000	32,000	(a)	(a)
Algeria	28,818	39,723	34,780	33,690	32,180	24,700	30,950	11,738	16,244	14,000	13,500	13,220	10,250	12,850
Morocco (French) ..	—	—	—	—	197	1,450	1,920	—	—	—	—	(a)	700	870
Tunis	453	2,731	6,570	3,164	2,884	1,130	—	200	1,255	3,000	1,400	1,380	538	—
United States (b) ..	722,596	813,372	940,652	928,531	888,388	931,163	1,017,769	296,364	337,549	392,252	388,126	378,453	392,788	432,819
Japan	397,598	474,557	819,588	1,119,909	1,510,950	1,898,286	2,215,232	175,000	202,000	348,000	476,000	623,000	790,000	930,000
Korea	61,084	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
TOTAL*	3,151,000	4,700,000	5,658,000	6,800,000	7,247,000	8,180,000	9,150,000	1,589,000	2,284,000	2,858,000	3,380,000	3,691,000	4,110,000	4,590,000
World's TOTAL* ..	3,591,000	5,273,000	6,419,000	7,544,000	8,287,000	9,235,000	10,280,000	1,589,000	2,284,000	2,858,000	3,380,000	3,691,000	4,110,000	4,590,000

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

(a) Information not available.

(b) Includes by-product pyrites.

EXPORTS OF PYRITES

(Domestic Produce)

(Long tons)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Southern Rhodesia—							
Iron pyrites	30,465	26,437	17,308	12,246	16,665	12,329	24,728
Canada—							
Pyrites (<i>S content</i>) ..	67,392	60,754	50,299	44,860	80,851	99,689	158,963
Cyprus—							
Iron pyrites	100,075	256,203	352,946	369,925	401,768	533,501	614,864
Cupreous pyrites ..	—	—	—	—	77,820	111,210	99,060
Australia	(a)	(a)	(a)	(a)	9	177	6,420
FOREIGN COUNTRIES							
Austria	(a)	(a)	(a)	(a)	7,975	20,098	95,648
Belgium-Luxemburg E.U.	(a)	(a)	(a)	3,282	—	362	3,531
Finland—							
Concentrate	75,309	—	11,731	5,462	30,222	—	—
France	9,546	—	934	33	7	—	6
Germany (Federal)—							
Pyrites, etc.	(a)	(a)	(a)	—	—	6,496	19,686
Greece	(a)	7,660	21,028	29,506	4,990	46,327	149,878
Italy	(a)	(a)	72,082	81,549	87,209	88,408	146,091
Norway—							
Iron pyrites	47,952	168,058	164,005	206,236	172,372	183,381	159,871
Cupreous pyrites ..	66,318	156,708	227,378	274,429	234,526	199,540	129,154
Portugal—							
Cupreous pyrites ..	92,678	238,798	299,110	406,116	339,390	489,370	561,922
Spain—							
Iron pyrites	491,197	622,049	987,893	1,093,550	1,054,809	1,199,493	1,516,428
Cupreous pyrites ..	(a)	(a)	(a)	—	9,499	27,495	36,463
Sweden	48,690	124,586	109,985	64,653	54,478	60,689	4,036
Yugoslavia	(a)	(a)	(a)	(a)	(a)	172,922	158,583
Algeria	(a)	(a)	3,898	5,336	—	—	610
Japan—							
Iron pyrites	41,394	(a)	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

IMPORTS OF PYRITES

(Less Re-exports)

(Long tons)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom— Iron and cupreous pyrites	132,618	161,905	175,055	212,803	230,323	191,636	347,688
Irish Republic	23,150	30,752	30,582	41,193	38,487	45,293	42,303
FOREIGN COUNTRIES							
Austria	(a)	(a)	20,981	26,766	25,480	75,649	138,835
Belgium-Luxemburg E.U.	(a)	(a)	(a)	364,691	308,543	321,129	404,554
Czechoslovakia	(a)	249,063	197,779	(b) 168,077	(a)	(a)	(a)
Denmark	29,564	72,740	110,852	136,944	128,829	144,857	148,007
France	95,277	563,243	511,270	594,057	635,144	548,091	693,161
Germany (Federal)— Pyrites, etc.	(a)	(a)	(a)	454,580	278,942	628,961	785,468
Hungary	(a)	—	11,686	(a)	(a)	(a)	(a)
Italy— Iron-pyrites	(a)	(a)	17,145	18,388	53,231	85,982	183,199
Cupreous pyrites ..	(a)	(a)	(a)	—	5,224	—	12,359
Netherlands	(a)	139,987	253,987	258,549	252,023	312,851	375,944
Sweden	20,055	108,810	101,077	79,261	95,801	97,690	73,088
Algeria	—	—	—	2,972	3,030	3,144	11,261
United States	186,507	182,893	126,553	107,411	120,937	208,766	221,512
Japan	—	(a)	(a)	(a)	(a)	11	(a)

(a) Information not available.

(b) January to October only.

SALT
PRODUCTION OF SALT
(Long tons)

Producing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Great Britain—							
Rock-salt	16,792	20,490	39,997	40,400	41,000	41,449	54,200
Brine-salt	820,409	875,281	851,625	902,537	875,020	922,720	1,003,071
Salt in brine (b)	2,396,050	2,456,779	2,247,277	2,831,917	2,807,418	3,234,475	3,577,798
Northern Ireland—							
Brine-salt	12,479	13,261	12,404	13,036	12,768	12,958	13,042
Mauritius—							
Sea-salt	2,960	3,115	3,928	3,350	5,118	2,565	3,350
South West Africa—							
Rock-salt	2,795	3,477	2,744	4,366	2,430	3,854	4,632
Other salt	10,690	10,423	9,705	10,249	13,514	12,699	39,250
Anglo-Egyptian Sudan	43,769	40,335	36,408	35,665	42,349	40,110	46,215
Kenya	15,242	15,388	13,836	16,547	18,523	18,426	19,084
Tanganyika	9,352	13,162	10,367	11,398	14,743	12,276	15,853
Uganda	(a)	5,589	6,892	2,992	7,283	7,296	7,745
Union of South Africa	(c) 138,272	(c) 141,407	(a)	(a)	160,362	104,716	147,430
Canada (sales)—							
Rock-salt	(d) 33,772	(d) 34,260	21,357	23,132	38,663	49,258	64,996
Other salt (e)	567,189	446,084	629,129	638,708	630,100	717,573	795,323
British West Indies—							
Sea-salt—							
Bahamas (exports)	33,500	82,357	72,607	31,499	54,607	22,929	48,321
Leeward Islands (exports)	7,596	5,157	6,935	4,087	4,783	5,518	6,884
Turks and Caicos Islands	19,470	29,045	—	38,000	47,000	60,000	—
Aden	139,945	113,042	194,549	271,058	303,432	255,865	304,302
Burma	(a)	43,916	51,736	(f)	(f)	(f)	(f)
Ceylon	41,695	42,920	22,791	77,000	28,211	66,859	25,835
Cyprus	—	3,375	15,375	—	—	4,068	10,752
India—							
Rock-salt	} 1,943,593	{ 259,041	4,532	4,058	4,229	5,049	5,443
Other salt			1,895,588	2,333,548	2,039,000	2,615,867	2,728,095
Pakistan—							
Rock-salt	(g)	(g)	198,110	153,988	167,700	(a)	(a)
Palestine—							
Rock-salt	2,110	1,546	(a)	(a)	(a)	(a)	(a)
Sea-salt	16,092	22,797	(a)	(a)	(a)	(a)	(a)
Australia (h)—	(a)	(a)	(a)	260,000	245,000	265,000	310,000
of which							
South Australia	171,067	158,214	155,074	173,087	168,450	190,702	218,910
Western Australia	(a)	(a)	(a)	7,000	6,000	7,000	6,000
Total*	6,400,000	6,370,000	6,600,000	8,000,000	7,500,000	8,700,000	9,500,000
FOREIGN COUNTRIES							
Austria—							
Rock-salt	83	545	4,278	1,724	708	1,068	681
Evaporated salt	52,079	77,752	80,958	80,052	74,569	90,058	93,815
France—							
Rock-salt	262,208	387,448	471,794	543,976	447,629	347,653	} 2,291,000
Salt in brine	370,024	1,103,103	1,642,419	1,905,749	1,296,446	1,678,943	
Sea-salt	505,919	469,220	460,028	439,487	730,989	595,000	

* See page 279.

(a) Information not available.

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

(c) Years ended June 30 of that stated.

(d) Including a small amount of other salt.

(e) Including salt in brine.

(f) Included under Foreign Countries.

(g) Included with India.

(h) Estimated.

PRODUCTION OF SALT (Cont.)

Producing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Germany (Federal) ..	(a)	1,593,536	1,796,232	2,003,537	1,770,600	2,429,000	2,714,266
Greece—							
Sea-salt	(a)	(b) 75,000	(b) 85,000	(b) 55,000	85,405	100,713	81,132
Italy—							
Rock-salt and brine-salt	150,836	440,450	711,719	715,600	791,730	705,930	(a)
Sea-salt	969,912	780,320	937,070	870,085	(a)	(a)	(a)
Netherlands (brine-salt) ..	57,625	191,630	247,454	251,534	326,507	406,054	473,526
Poland—							
Rock-salt and brine-salt	} (a)	{ 269,758	333,723	412,968	443,326	654,000	(a)
Salt in brine			(a)	276,226	301,343	(a)	(a)	(a)
Portugal—							
Rock-salt	70	45	68	48	40	41	38
Sea-salt (exports) ..	7,646	81,663	24,675	10,492	16,636	30,279	28,911
Spain—							
Rock-salt	224,423	258,508	261,059	288,255	284,333	269,562	349,106
Sea-salt	553,570	502,064	560,350	685,598	538,248	897,998	899,002
Switzerland	81,352	90,635	106,055	107,106	(a)	(a)	112,000
Yugoslavia	(a)	(a)	(a)	(a)	(a)	129,000	94,000
Algeria—							
Brine-salt and sea-salt ..	49,181	65,519	80,759	71,884	95,369	75,054	95,593
Angola	48,769	60,683	38,170	58,902	40,634	39,834	48,451
Belgian Congo	875	629	756	(a)	800	540	540
Canary Islands (sea-salt) ..	16,044	13,443	6,846	13,000	5,200	5,976	15,481
Cape Verde Islands	7,761	14,149	9,100	13,417	18,996	(a)	(a)
Egypt	(b) 350,000	(b) 350,000	(b) 350,000	(b) 350,000	344,352	530,503	597,452
Eritrea (sea-salt)	26,629	40,320	45,000	60,000	79,040	53,070	(a)
Ethiopia (b)	10,000	10,000	10,000	10,000	10,000	10,000	10,000
French Somaliland	45,400	31,700	47,000	58,700	67,000	79,000	54,300
Morocco (French)—							
Rock-salt, etc.	6,092	8,345	9,864	10,602	} 33,531	59,052	44,266
Brine-salt	27,499	40,328	33,557	23,902			
Morocco (Spanish)—							
Sea-salt (b)	250	250	250	250	250	250	250
Mozambique—							
Rock-salt	} 5,723	{ 70	74	76	76	61	87
Sea-salt			6,919	9,936	9,865	10,755	9,724	(a)
Tunis (sea-salt)	60,322	91,925	112,979	103,578	96,535	92,616	144,193
Cuba (sea-salt)	51,508	55,885	50,416	54,465	(a)	(a)	49,473
Dominican Republic—							
Rock-salt	(a)	2,732	2,051	2,328	2,373	2,267	2,238
Sea-salt	14,900	15,497	14,682	12,872	8,012	12,398	7,964
Haiti (b)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Honduras	(a)	(a)	(a)	(a)	(a)	4,327	4,577
Mexico (b)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Netherlands West Indies ..	2,549	876	214	475	(a)	(a)	(a)
Nicaragua—							
Sea-salt	(b) 6,000	(b) 6,000	(b) 6,000	9,455	11,342	11,152	12,044
Panama (sea-salt)	4,796	15,664	8,722	3,320	4,278	9,826	11,689
Porto Rico (sea-salt) (b) ..	15,000	15,000	15,000	15,000	15,000	15,000	15,000
Salvador	17,852	68,135	16,452	21,172	(a)	(a)	(a)
United States (sales)—							
Rock-salt	3,130,125	3,046,436	3,352,101	3,434,684	3,075,304	3,506,488	4,162,673
Salt in brine	7,773,063	7,563,107	8,236,878	8,347,361	7,895,994	8,368,977	10,616,187
Evaporated salt	2,841,580	2,901,301	2,820,284	2,863,753	2,932,465	2,972,579	3,263,221
Argentina—							
Rock-salt	3,221	(a)	(a)	(a)	(a)	(a)	(a)
Brine-salt	426,276	(a)	(a)	(a)	(a)	(a)	(a)
Bolivia	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Brazil (sea-salt)	423,368	599,577	553,685	768,993	792,000	860,000	(a)
Chile	47,324	61,738	58,472	52,905	38,905	46,676	48,145

(a) Information not available.

(c) Exports.

(b) Estimated.

PRODUCTION OF SALT (Cont.)

Producing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Colombia—							
Rock-salt	89,196	91,000	89,126	93,027	100,376	105,229	108,346
Sea-salt	14,217	31,403	25,708	24,258	22,925	34,492	27,623
Costa Rica	6,000	8,000	6,153	6,500	8,100	8,300	5,359
Ecuador (sea-salt)	27,200	34,500	24,500	22,300	14,900	15,500	(a)
Guatemala—							
Sea-salt	(a)	(a)	(a)	(a)	(a)	11,300	11,800
Peru—							
Rock-salt	10,238	9,064	10,207	9,618	9,344	7,865	(a)
Sea-salt	35,404	37,101	43,300	47,430	42,476	52,105	(a)
Brine-salt	8,631	9,556	5,650	4,897	3,264	5,481	(a)
Venezuela (sea-salt)	56,552	89,125	35,229	34,972	70,790	55,547	38,305
Afghanistan	(a)	(a)	(a)	(a)	(a)	(a)	17,248
Burma—							
Sea-salt	(e)	(e)	(e)	42,705	29,609	18,020	60,675
Brine-salt	(e)	(e)	(e)	2,140	1,582	(b) 3,000	2,496
China (c)	1,900,000	1,656,000	1,975,000	2,440,000	2,000,000	(a)	(a)
Formosa	66,682	213,709	161,007	360,026	249,937	172,297	270,000
French Indo-China	99,388	(d) 14,502	40,900	63,100	111,786	74,526	92,425
Indonesia (g)	128,391	29,385	(a)	350,414	313,863	160,169	473,000
Iraq	13,982	9,362	12,435	13,120	9,025	11,673	15,413
Japan—							
Government-licensed plants	(f) 181,385	(f) 209,000	113,097	287,491	389,500	413,000	431,000
Others	(f) 18,633	(f) 143,759	(f) 130,460	(f) 47,012	(a)	(a)	(a)
Jordan (brine-salt)	(a)	(a)	(a)	100	(b) 5,000	(b) 10,000	(b) 10,000
Korea (Southern)	(a)	(a)	(a)	(a)	185,830	(a)	(a)
Lebanon (sea-salt)	(a)	(a)	(a)	(b) 5,000	(b) 2,500	(b) 6,500	(b) 7,000
Macao (exports)	38,784	7,446	4,695	4,104	(a)	(a)	(a)
Philippine Republic—							
Sea-salt	(a)	(a)	(a)	(a)	51,450	55,394	51,454
Portuguese India	(a)	(a)	20,000	(a)	(a)	(a)	(a)
Siam	40,739	135,427	(b) 150,000	(b) 200,000	(b) 150,000	(b) 200,000	(b) 400,000
Syria	1,064	15,193	20,401	20,000	20,809	20,000	5,306
Turkey—							
Rock-salt	} (a)	19,896	26,552	27,742	17,637	20,009	22,474
Lake and spring salt		30,176	74,296	70,979	105,064	101,149	84,531
Sea-salt		152,973	171,622	164,005	188,647	179,263	159,518
TOTAL*	27,000,000	30,000,000	33,000,000	35,000,000	34,000,000	36,000,000	40,000,000
WORLD'S TOTAL*	33,000,000	36,000,000	39,500,000	43,000,000	41,500,000	44,700,000	49,500,000

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

- (a) Information not available.
- (b) Estimated.
- (c) U.S. Bureau of Mines.
- (d) Cochin-China only.
- (e) Included under British Countries.
- (f) Years ended March 31 following that stated.
- (g) Government production of brine-salt.

EXPORTS OF SALT

(Domestic Produce)

(Long tons)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Rock-salt	3,415	7,332	5,550	7,692	6,716	9,507	5,451
Other salt	135,579	170,315	142,413	194,817	209,118	250,988	274,906
Anglo-Egyptian Sudan	3,770	20,768	46,745	5,755	6,645	14,042	12,321
Gold Coast	1	1	1,579	403	1,214	727	1,099
Kenya	457	176	60	83	16	9	365
Southern Rhodesia	157	132	201	292	387	321	454
South West Africa—							
Rock salt	(b)	(b)	(a)	—	215	463	1,167
Coarse salt					214	2,781	22,847
Other					148	413	927
Tanganyika	2,648	3,427	3,110	2,937	2,952	3,874	3,811
Uganda	1,455	1,823	1,556	1,309	1,489	2,131	2,295
Union of South Africa	2,626	15,119	16,603	17,819	20,031	16,093	7,665
Canada	4,745	5,236	10,010	5,026	3,100	3,660	4,073
British West Indies—							
Bahamas (c)	33,500	82,357	72,607	31,499	54,607	22,929	48,321
Leeward Islands	7,596	5,157	6,935	4,087	4,783	5,518	6,884
Turks and Caicos Islands	11,892	19,541	70,340	70,685	52,718	9,553	(a)
Aden	62,305	84,187	317,740	278,649	228,048	235,516	337,569
Ceylon	260	27	213	2	83	158	1
Hong Kong (including re-exports)	(a)	10,504	14,638	11,850	10,236	5,946	2,461
India (d)	38,975	32,696	7,635	8,590	270	7,838	17,659
Malaya (including re-exports)	(a)	18,236	51,297	39,124	10,726	8,354	7,943
Australia—							
Rock-salt	7	108	3	85	6	353	24
Refined salt (£ Australian)	(£14,288)	(£8,022)	(£111,825)	543	10,311	2,126	856
Other salt	24,718	14,574	10,969	22,771	14,048	19,228	13,389
FOREIGN COUNTRIES							
Austria	1,281	6,705	7,604	5,597	3,379	6,428	6,048
Belgium-Luxemburg E.U.—							
Common salt	(a)	(a)	(a)	1	39	14	132
Refined salt	(a)	(a)	(a)	17	31	57	21
Denmark—							
Refined salt, etc.	11	54	240	71	417	178	81
France	30,635	128,670	183,614	295,342	190,394	108,341	122,452
Germany (Federal)—							
Rock-salt, sea-salt, etc.	(a)	(a)	(a)	388,138	534,310	583,574	691,434
Italy—							
Rock-salt and sea-salt	(a)	(a)	302,033	534,310	567,300	121,378	260,205
Netherlands—							
Rock-salt and sea-salt	(a)	—	85	—	—	—	—
Refined salt and waste	(a)	65,288	129,539	150,963	180,371	255,799	293,483
Norway—							
Common salt	—	3,271	6	59	2,298	1,552	(a)
Refined salt	5	4	30	4	1	18	(a)

(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) :—1945—92 ; 1946—122.

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

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

EXPORTS OF SALT (Cont.)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Poland	(a)	(a)	28,956	70,999	(a)	(a)	(a)
Portugal	7,646	81,663	24,675	10,492	16,636	30,279	28,911
Spain	192,991	327,412	339,195	360,177	263,985	176,004	362,638
Sweden	13,959	2,437	2,218	658	947	2,801	2,342
Algeria	1,828	10,022	15,629	43,004	42,891	22,288	14,213
Angola	22,110	17,173	21,732	(a)	16,471	18,370	(a)
Egypt—							
Common salt	251,373	222,519	613,263	354,397	455,817	201,042	341,404
French Somaliland	23,112	25,324	48,016	58,200	110,246	52,069	60,502
French West Africa	353	2,023	3,225	(a)	(a)	(a)	(a)
Madagascar	1,522	583	18	246	(a)	(a)	(a)
Mozambique	2,857	860	128	995	1,403	1,742	1,047
Morocco (French)	—	6,294	65	(a)	(a)	(a)	(a)
Morocco (Spanish)	347	800	398	(a)	(a)	(a)	(a)
Tunis (including re-exports)							
Rock-salt and sea-salt	65,062	14,909	60,436	175,797	152,609	(a)	(a)
Cuba	(a)	(a)	(a)	453	363	(a)	(a)
Mexico	1	—	1,939	10	2,050	45	(a)
Netherlands West Indies	1,564	876	214	475	248	(a)	933
Salvador	415	871	1,538	1,729	(a)	(a)	1,208
United States	170,111	199,488	168,131	327,394	321,229	169,979	392,068
Argentina	38,551	34,404	(a)	(a)	(a)	(a)	(a)
Brazil	1,188	482	209	238	41	(a)	(a)
Chile	166	148	99	—	(a)	(a)	(a)
Ecuador	(a)	(a)	(a)	(a)	(a)	(a)	(a)
China—							
Refined salt	244,301	24,048	9,842	(a)	(a)	(a)	(a)
Other salt		220,252	164,477	31,974	(a)	(a)	(a)
Formosa	(a)	91,180	98,617	28,050	233,672	140,062	237,253
French Indo-China	(a)	(a)	—	22,699	39,640	(a)	(a)
Iran (including re-exports)(b)	(a)	1,255	1,035	1,180	930	2,039	(a)
Japan	(a)	(a)	3,248	(a)	(a)	(a)	304
Macao	38,784	7,446	4,695	4,104	(a)	(a)	(a)
Portuguese India	9,072	7,863	11,026	11,177	9,551	(a)	(a)
Siam (including re-exports)	2,373	(a)	(a)	(a)	(a)	(a)	(a)
Turkey	—	52,723	35,093	28,738	48,058	(a)	76,576

(a) Information not available.

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

IMPORTS OF SALT

(Less Re-exports)

(Long tons)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Rock-salt	923	—	—	1	—	} 23,572	26,347
Other salt	7	15,808	104,252	42,420	39,968		
Malta—							
Refined salt	(£2,068)	(£1,772)	(£1,189)	(£1,464)	(£2,007)	(£1,618)	(£1,925)
Other salt	687	2	1	—	(£228)	(£202)	1
Anglo-Egyptian Sudan	286	259	217	269	194	223	57
Gambia	175	2	147	869	648	924	270
Gold Coast—							
Refined salt	14	15	36	20	26	38	75
Other salt	8	406	471	850	1,099	2,127	3,823
Kenya (c)	(b) 182	2,117	7,030	6,436	688	778	694
Mauritius	500	—	—	—	—	—	804
Nigeria	56,560	67,723	79,364	77,410	75,806	63,417	94,801
Northern Rhodesia	3,543	4,475	3,677	5,083	5,711	6,116	6,468
Nyasaland	4,698	5,552	2,735	3,233	5,202	4,474	3,608
Seychelles	187	—	86	312	157	706	84
Sierra Leone	2,968	3,868	2,988	4,160	6,159	2,875	5,047
Somaliland	1,320	1,310	(a)	(a)	(a)	(a)	5
South West Africa	372	488	986	536	442	451	(a)
Southern Rhodesia	10,270	4,853	11,044	12,494	15,191	13,377	19,272
Tanganyika	814	584	194	577	3,209	1,568	1,614
Uganda	(d)	(d)	(d)	(d)	5,585	4,753	6,158
Union of South Africa—							
Rock-salt	29	76	205	117	197	196	(a)
Common salt and refined salt	841	1,891	767	2,173	2,791	2,890	(a)
Zanzibar	665	£3,078	822	2,298	1,220	1,187	1,717
Canada (total imports) (e)—							
Salt for use of fisheries	21,164	44,516	45,663	26,172	74,334	51,410	52,750
Refined salt	—	1,365	36	—	—	—	17
Other salt	96,843	157,959	150,622	139,611	136,994	161,303	178,324
Newfoundland (f)—							
Salt in bulk	56,960	60,819	60,328	59,608	(f)	(f)	(f)
Refined salt	737	731	848	682	(f)	(f)	(f)
British Honduras	298	453	457	403	323	382	409
British West Indies—							
Barbados	1,538	2,957	2,069	2,237	2,416	2,294	2,348
Bermuda	174	118	156	134	174	158	(a)
Dominica	301	247	342	398	212	415	144
Grenada	284	707	836	1,109	340	680	781
Jamaica—							
Rock-salt	(b) 1	16	116	20	18	45	27
Other salt	8,088	9,937	8,880	10,836	6,028	9,654	9,531
Leeward Islands	2	264	409	197	242	264	469
St. Lucia—							
Common salt	384	476	482	420	375	469	1,040
Refined salt	—	17	3	11	13	15	32
St. Vincent—							
Unrefined salt	660	360	537	310	363	(a)	(a)
Refined salt	60	28	113	18	(a)	(a)	(a)
Trinidad and Tobago—							
Rock and coarse salt	885	147	606	207	545	732	581
Refined salt	1,750	2,598	4,752	3,739	4,365	4,489	4,690
British Guiana—							
Rock-salt	102	543	608	409	597	496	688
Refined salt, etc.	455	1,432	1,307	1,840	1,318	1,870	1,793

(a) Information not available.

(b) Excess of re-exports.

(c) Including Uganda up to 1948 inclusive.

(d) Included with Kenya.

(e) Including Newfoundland from April 1, 1949.

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

IMPORTS OF SALT (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES (Cont.)							
Aden	—	1	5	7	8	7	12
Brunei	(a)	(a)	70	97	153	178	(a)
Burma	(a)	(b) 1,548	(a)	(a)	(a)	(a)	(a)
Ceylon—							
Refined salt	4	2	1	3	14	8	18
Other salt	12,011	15	10	24	21	30	22
Cyprus	1	15	6	44	25	17	56
Hong Kong (total imports)	(a)	25,249	55,086	49,412	76,371	45,072	29,174
India	278,093	85,505	306,349	345,576	248,865	146,875	2,351
Malaya (total imports)—							
Refined salt	(a)	{ 477	52	59	83	110	135
Other salt	(a)	{ 80,866	80,441	91,629	66,350	77,332	66,399
North Borneo	(a)	(a)	(a)	175	2,017	2,012	2,242
Palestine	—	814	(a)	(a)	(a)	(a)	(a)
Sarawak	(a)	(c) 2,617	2,413	3,359	3,416	3,356	3,489
Australia—							
Rock-salt	1,918	2,850	2,669	3,865	5,020	6,332	4,049
Refined salt	(£A5,818)	1,012	1,562	2,562	1,880	1,951	4,561
Other salt	979	26	115	220	1,830	3,420	7,678
Fiji	785	1,240	1,524	1,621	890	867	1,179
New Zealand	41,577	41,614	57,329	50,774	53,226	43,069	39,236
Solomon Islands (d)	1	2	6	8	5	7	9
Western Samoa	(a)	(a)	(a)	142	80	119	(a)
Irish Republic							
Refined salt	2,764	3,489	3,346	3,148	3,748	2,815	2,558
Other salt	25,249	29,581	29,109	26,377	27,186	26,222	26,857
FOREIGN COUNTRIES							
Austria—							
Common salt	(a)	(a)	—	2,667	636	91	—
Belgium-Luxemburg E.U.—							
Common salt	(a)	(a)	(a)	382,398	295,409	310,443	428,049
Refined salt	(a)	(a)	(a)	68,606	70,012	96,271	68,113
Bulgaria—							
Rock-salt	5,229	8,893	(a)	(a)	(a)	(a)	(a)
Sea-salt	—	—	(a)	(a)	(a)	(a)	(a)
Czechoslovakia—							
Common salt	(a)	{ 113,358	141,848	(e) 201,510	(a)	(a)	(a)
Refined salt	(a)	{ 137,225	94,350	(e) 160,267	(a)	(a)	(a)
Denmark—							
Rock-salt	208	166	58	146	796	1,511	1,050
Refined salt	49,774	98,341	119,121	84,781	82,481	96,396	102,387
Finland (total imports)—							
Common salt	43,885	108,594	112,431	128,815	65,823	91,617	104,594
France	1,144	1,464	9,181	16,058	11,112	16,510	14,440
Germany (Federal)—							
Rock-salt, sea-salt, etc.	(a)	(a)	(a)	141	255	16	—
Hungary	(a)	51,971	89,438	(a)	(a)	(a)	(a)
Iceland—							
Common salt	5,803	19,879	42,623	20,734	20,977	55,611	27,068
Refined salt	68	30	75	109	54	94	129
Netherlands—							
Rock-salt	(a)	21,694	37,099	58,802	30,537	57,101	59,037
Sea-salt, etc.	(a)	28,296	42,704	45,799	9,150	3,452	4,447
Refined salt	(a)	1	(a)	(a)	(a)	4	41

(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.

IMPORTS OF SALT (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Norway—							
Common salt	123,162	199,335	231,580	234,160	209,449	217,484	219,295
Refined salt	10,130	15,504	14,968	20,240	19,703	29,012	34,992
Portugal	1	9	176	26	8	44	(a)
Sweden—							
Common salt	76,795	243,671	290,643	287,745	324,243	348,228	338,812
Switzerland	—	472	246	382	259	269	295
Yugoslavia	(a)	(a)	(a)	(a)	(a)	104,356	41,320
Algeria	5,482	3,089	2,486	1,391	518	127	133
Belgian Congo	21,152	31,846	25,050	22,995	31,141	31,349	(a)
Cameroon (French) ..	6,526	4,851	10,059	10,173	6,047	9,937	5,625
Egypt—							
Common salt	213	197	135	271	216	317	(a)
Ethiopia (b)	45,306	42,752	45,000	42,000	49,595	48,663	50,200
French Equatorial Africa	9,673	5,027	5,318	7,003	10,695	5,909	5,734
French Togoland	3,385	3,493	7,154	957	2,905	4,023	(a)
French West Africa ..	(a)	1,299	929	3,095	5,985	9,446	8,447
Madagascar	(a)	519	4,201	9,032	2,452	621	182
Morocco (French)	7,583	7,409	3,702	(a)	(a)	(a)	(a)
Morocco (Spanish) ..	5,488	8,067	5,092	(a)	(a)	(a)	(a)
Mozambique	2,963	5,121	3,332	3,801	3,247	5,438	2,636
Portuguese Guinea ..	1,528	1,131	808	908	761	(a)	(a)
Réunion	778	969	(a)	1,037	1,347	(a)	(a)
S. Thomé and Príncipe	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Costa Rica	104	191	(a)	189	125	(a)	(a)
Cuba (total imports) ..	5,213	(a)	(a)	6,526	8,270	(a)	(a)
French West Indies—							
Guadeloupe	1,796	1,518	(a)	(a)	(a)	1,809	1,822
Martinique	1,909	1,216	2,341	1,916	1,212	2,369	(a)
Guatemala	(a)	(a)	1,478	954	3,865	1,771	(a)
Honduras (d)	(a)	(a)	543	755	1,450	286	951
Mexico	4,418	6,063	5,133	3,629	(a)	(a)	(a)
Netherlands West Indies	226	229	248	270	353	(a)	(a)
Nicaragua (total imports)	152	370	251	(a)	(a)	(a)	(a)
St. Pierre and Miquelon ..	8,053	3,296	4,120	7,143	4,815	4,006	(a)
United States	4,065	3,797	1,704	5,019	5,633	7,026	3,865
Argentina—							
Rock-salt	—	217	(a)	(a)	(a)	(a)	(a)
Sea-salt	—	—	(a)	(a)	(a)	(a)	(a)
Refined salt	100	129	(a)	(a)	(a)	(a)	(a)
Brazil (total imports)—							
Common salt	29,845	23,463	15,303	177	—	(a)	(a)
Refined salt	5,474	1,040	890	66	—	(a)	(a)
Chile	—	147	(a)	(a)	(a)	(a)	(a)
Colombia	(a)	291	(a)	(a)	(a)	(a)	(a)
Dutch Guiana	761	925	932	769	(a)	(a)	(a)
French Guiana	294	364	(a)	(a)	(a)	360	(a)
Peru	69	209	(a)	(a)	(a)	(a)	(a)
Uruguay—							
Refined salt	—	—	—	—	—	—	—
Rock-salt	—	150	230	50	8,811	10,586	(a)
Sea-salt	—	—	—	—	—	—	—
French Indo-China	(a)	3,622	9,507	9,505	1,217	755	712
Iran (c)—							
Common salt	(a)	1,535	2,261	24	2	—	(a)
Refined salt	(a)	33	13	14	38	7	(a)
Iraq	5	25	(a)	(a)	(a)	(a)	(a)
Japan	444,589	264,555	773,586	1,182,229	1,798,736	621,231	1,783,059
Korea	(a)	11,747	95,430	114,261	(a)	(a)	(a)
Syria and Lebanon	3,609	4,098	4,918	(a)	(a)	(a)	(a)
New Caledonia	(a)	907	201	424	523	47	592

(a) Information not available.

(b) Years ended September 10 of that stated.

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

(d) Years ended June 30 of that stated.

SILVER

PRODUCTION OF SILVER ORE

(In terms of metal)

(Fine troy ounces)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Great Britain	27,517	23,285	23,522	15,942	13,996	18,153	26,777
Bechuanaland Protectorate	1,237	1,704	1,081	233	27	39	70
Gold Coast (b)	36,666	54,526	41,250	45,553	40,051	43,317	52,542
Kenya	16,659	5,493	3,859	3,184	2,279	2,586	2,150
Nigeria	1,106	666	2,130	4,269	484	304	213
Northern Rhodesia	2,269	(c) 634,392	(c) 73,277	(c) 145,865	(c) 134,920	(c) 173,304	(c) 100,702
Southern Rhodesia	95,975	95,168	91,901	81,404	84,495	85,549	79,731
South West Africa	(a)	(a)	(f) 390,000	(d) 400,000	659,000	887,000	867,000
Swaziland	—	—	211	124	120	60	18
Tanganyika	21,689	21,682	21,131	25,340	26,886	(e) 51,674	(e) 113,544
Uganda (b)	275	205	87	56	42	35	14
Union of South Africa	1,243,426	1,207,373	1,147,694	1,170,951	1,154,454	1,133,645	1,162,586
Canada	12,942,906	12,544,100	12,504,018	16,109,982	} 17,641,493	23,221,431	24,244,949
Newfoundland	1,076,129	1,107,827	956,052	882,263			
Cyprus	—	—	87	—	—	—	—
India	14,154	9,821	12,422	12,797	11,275	15,676	14,612
Australia	8,076,740	9,045,280	9,527,140	10,057,519	9,849,213	10,677,456	10,792,032
Fiji	29,398	26,351	33,238	29,187	29,755	37,740	24,869
New Guinea (h)	(a)	(a)	(a)	(a)	41,911	36,189	38,556
New Zealand	244,544	224,341	221,984	232,563	232,599	199,701	133,291
Total	23,830,000	25,002,000	25,051,000	29,217,000	29,920,000	36,636,000	37,654,000
FOREIGN COUNTRIES							
Austria	—	—	—	(a)	1,318	868	6,108
Czechoslovakia	(g) 300,000	(g) 600,000	(g) 1,400,000	(g) 1,600,000	(a)	(a)	(a)
Finland	33,115	140,209	188,821	167,602	168,026	115,936	157,281
France	350,025	535,214	474,320	494,414	570,901	719,855	(a)
Germany (Federal)	(a)	(a)	(a)	867,459	1,601,782	1,637,116	1,819,957
Greece	(a)	(a)	(a)	(a)	(a)	(a)	74,590
Italy	29,700	311,900	512,300	596,000	635,395	836,000	(a)
Norway	132,374	201,926	226,679	216,667	169,981	168,181	164,000
Portugal	(a)	(a)	7,395	35,366	31,958	68,288	65,427
Roumania	190,000	(a)	481,200	(a)	(a)	(a)	(a)
Spain	(a)	668,993	638,192	371,547	514,283	585,938	609,320
Sweden	1,135,178	1,294,935	1,088,656	1,137,943	1,140,708	1,275,709	(a)
Yugoslavia (refined)	(a)	(a)	(a)	(a)	(a)	2,386,000	3,032,000
Algeria	14,661	39,996	48,226	29,740	(a)	(a)	(a)
Belgian Congo	4,147,000	5,048,000	4,051,000	3,805,619	4,549,300	4,459,300	3,795,070
Morocco (French)	107,609	117,157	375,782	487,598	491,906	1,007,900	1,569,000
Mozambique	997	804	707	616	244	71	96
Tunis	34,369	60,122	53,852	16,011	68,320	71,825	61,119
Costa Rica	1,400	600	1,500	3,000	700	200	(a)

(a) Information not available.

(b) Exports.

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

(d) Estimated.

(e) Including silver in lead concentrates exported amounting to 21,635 and 80,030 fine troy ounces in 1950 and 1951 respectively.

(f) Estimated content of ores sorted ex dumps.

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

(h) Years ended June 30 of that stated.

PRODUCTION OF SILVER ORE (Cont.)

Producing Country	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Cuba	(b) 107,195	127,222	146,932	185,216	(b) 157,411	(b) 221,779	(a)
Honduras	3,003,495	2,682,910	2,403,500	3,171,027	3,378,000	3,514,976	3,182,502
Mexico	61,097,728	43,263,132	58,843,864	57,519,704	49,454,883	49,141,445	43,797,735
Nicaragua	236,000	257,000	215,293	214,628	206,604	187,953	206,882
Panama	(a)	(a)	(a)	(a)	(a)	(a)	5,026
Salvador	221,144	291,689	285,893	216,342	250,259	462,840	(a)
United States	29,024,197	22,914,604	35,823,563	38,096,031	34,674,952	42,459,014	39,463,661
Argentina (f)	2,760,000	3,090,000	2,435,400	1,201,900	1,249,421	1,150,000	(a)
Bolivia (c)	6,683,561	6,106,165	6,265,505	7,562,208	6,637,296	6,566,918	7,172,220
Brazil	28,383	21,965	20,291	23,084	21,041	21,155	20,319
Chile	825,438	557,333	763,130	861,962	799,674	742,489	983,491
Colombia	168,699	152,651	110,830	108,716	106,674	116,104	130,028
Ecuador	255,965	254,271	134,100	205,800	276,900	273,200	(a)
Peru	12,997,845	12,334,249	10,782,995	9,288,703	10,609,649	13,367,700	14,856,194
Burma	(a)	(a)	(a)	(d) 700,000	75,200	(a)	(a)
Formosa	(a)	(a)	(a)	7,269	2,778	2,098	1,640
Japan	2,069,479	1,244,620	1,792,082	2,185,608	2,736,382	3,964,572	4,505,862
Korea	(a)	(a)	(e) 66,956	(e) 38,504	(e) 18,937	(a)	(a)
Philippine Republic	17,208	913	44,816	150,760	218,433	216,034	274,602
Saudi Arabia	24,144	31,307	49,805	67,819	81,295	124,287	109,912
Turkey	(a)	(a)	(a)	(a)	580,000	(a)	(a)
Total*	130,000,000	107,000,000	140,000,000	143,000,000	133,000,000	145,000,000	140,000,000
WORLD'S TOTAL* ..	154,000,000	132,000,000	165,000,000	172,000,000	163,000,000	182,000,000	178,000,000

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

(a) Information not available.

(b) Imports into the United States.

(c) Exports.

(d) Year ended June 30 following that stated.

(e) South Korea only.

(f) U.S. Bureau of Mines.

EXPORTS OF SILVER*

(Including re-exports)

(In terms of metal)

(Fine troy ounces)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Refined bullion	5,733	19,319,584	30,239,428	11,176,381	18,814,049	21,582,042	18,111,753
Malta—							
Bullion and scrap	(a)	3,400	—	1,900	—	1,300	1,400
Anglo-Egyptian Sudan—							
Bullion	—	—	—	—	—	1,200	(a)
Gold Coast—							
Bullion	36,666	54,526	41,250	45,553	40,051	43,317	52,542
Northern Rhodesia—							
Bullion	10	40	—	—	—	—	—
Southern Rhodesia—							
Bullion	96,152	95,645	90,370	81,001	81,308	84,227	78,935
Tanganyika—							
Concentrates	—	—	—	—	—	21,635	80,030
Bullion	21,594	21,336	20,854	25,010	27,631	31,014	36,271
Uganda—							
Bullion	275	205	87	56	42	35	14
Union of South Africa—							
Bullion	200	408,651	222	603,626	1,102,479	506,959	30
Zanzibar—							
Bullion	—	—	2,100	—	—	—	—
British West Indies—							
Trinidad and Tobago—							
Bullion	—	129	—	1,700	(a)	40,000	—
Canada—							
Ore, concentrates, etc. ..	2,232,405	1,863,817	2,722,261	3,294,691	4,054,614	3,494,107	2,413,288
Bullion	2,723,698	3,116,146	7,913,730	5,814,573	6,211,912	8,355,183	16,183,364
Burma—							
Bullion	(a)	(d) 78,257	(a)	(a)	(a)	(a)	(a)
Hong Kong—							
Bullion	(a)	6,442,000	10,002,000	4,366,000	(a)	5,021,000	2,139,000
India—							
Bullion	(c) 3,400	(c) 20,800	(c) —	(c) 200	—	—	—
Malaya—							
Bullion	(a)	1,600	36,700	98,700	(a)	354,300	215,600
Australia—							
Ores and concentrates ..	(b)1,402,076	(b) 358,779	(b) 726,627	(b)1,235,056	640,000	1,350,000	1,400,000
Silver-lead bullion	(a)	(a)	(a)	(b)1,675,920	2,905,518	2,623,638	2,446,983
Bullion (refined)	19,000	228,149	2,896,826	5,385,887	4,555,738	7,488,141	7,180,541
Fiji—							
Bullion	25,700	16,700	34,933	40,222	32,481	29,065	31,408
New Guinea (b)—							
Bullion	(a)	(a)	(a)	(a)	38,691	36,326	38,639
New Zealand—							
Scrap, sweepings, etc. ..	1,068	2,229	7,951	1,737	3,918	12,630	2,106
Bullion, etc.	66,000	55,000	(e) 101,485	(e) 145,436	(e) 85,721	93,000	2,000
FOREIGN COUNTRIES							
Czechoslovakia—							
Bullion	(a)	(a)	290,000	(a)	(a)	(a)	(a)

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

(a) Information not available.

(b) Years ended June 30 of that stated.

(c) Sea-borne trade only.

(d) February to September only.

(e) Gross Weight.

EXPORTS OF SILVER (Cont.)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Denmark—							
Bullion	—	52,000	22,500	64,000	61,000	56,000	47,000
Beaten, rolled or drawn	37,000	40,000	93,000	79,800	1,453,000	5,000	2,400
France—							
Bullion	(a)	(a)	(a)	(a)	(a)	(a)	278,000
Beaten, rolled or drawn	13,500	250,000	100,000	260,000	135,000	197,000	190,000
Italy—							
Bullion, etc.	(a)	(c) 980,000	(c) 300	(c) 3,000	(c) 16,000	(c) 3,600	2,000
Netherlands—							
Bullion and scrap ..	(a)	420,000	459,000	360,000	(a)	256,000	6,912,000
Sweden—							
Bullion	200,000	300,000	250,000	110,000	135,000	250,000	233,000
Switzerland—							
Bullion	1,000	8,000	130,000	530,000	560,000	551,000	112,000
Honduras (b)—							
Bullion	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Mexico—							
Bullion, etc.	20,730,000	36,300,000	44,000,000	42,000,000	44,900,000	42,700,000	29,000,000
Nicaragua—							
Concentrates	226,000	235,000	(a)	(a)	(a)	(a)	(a)
Salvador—							
Bullion	223,700	313,200	265,100	216,300	(a)	(a)	(a)
United States—							
Ore and base bullion ..	—	10,070	} 40,000,000	(a)	(a)	(a)	(a)
Refined bullion	98,517,009	39,793,263		(a)	(a)	(a)	(a)
Argentina—							
Bullion	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Bolivia—							
Ores, etc.	6,684,000	6,106,000	6,233,000	7,562,000	6,635,000	6,567,000	7,172,000
Chile—							
Ore	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Peru—							
Ores, concentrates, etc. . .	2,025,000	1,000,000	2,680,000	1,347,000	(a)	4,500,000	(a)
Bullion	6,070,000	6,006,000	5,000,000	2,857,000	(a)	7,200,000	(a)
China—							
Bullion	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Philippine Republic—							
Bullion	(a)	(a)	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

(b) Years ended July 31 of year stated.

(c) Gross weight.

TOTAL IMPORTS OF SILVER*

(In terms of metal)

(Fine troy ounces)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Ores	259,000	553,000	2,486,000	1,786,000	(a)	3,075,000	2,805,000
Unrefined bullion	50	838,000	1,028,000	870,917	1,906,000	2,601,654	1,590,915
Refined bullion	24,035,000	32,675,000	33,711,000	7,617,058	12,965,000	7,287,943	10,191,575
Malta—							
Bullion	(a)	6,600	9,300	8,200	(a)	1,900	3,700
Anglo-Egyptian Sudan—							
Bullion	—	—	6,300	—	(a)	320	(a)
Gold Coast—							
Bullion	—	2	2,440	1,437	31,528	28,870	59,954
Kenya and Uganda—							
Bullion	—	—	1,800	800	(a)	700	300
Nigeria—							
Bullion	—	10,388	17,901	10,538	16,816	6,601	47,575
Sierra Leone—							
Bullion	—	195	186	—	—	381	1,251
Union of South Africa—							
Bullion	148,000	129,559	116,066	115,796	240,303	25,302	(a)
Zanzibar—							
Bullion	—	—	2,100	—	(a)	—	50
Canada—							
Bullion	1,796	1,927,922	71,499	717,817	1,332,713	341,605	1,050,299
British Guiana—							
Bullion	—	780	150	—	—	—	90
British West Indies—							
Trinidad and Tobago—							
Bullion	—	2,000	2,700	200	(a)	100	—
Ceylon—							
Bullion	9,000	23,000	26,000	124,000	(a)	23,000	37,000
Cyprus—							
Bullion	6,000	1,300	19,300	5,800	(a)	2,800	4,800
Hong Kong—							
Bullion	(a)	11,000	1,000	147,000	(a)	1,055,000	893,000
India (b)—							
Bullion	62,974,702	46,945,674	d 39,956,850	(d) 4,234,531	(d) 100,921	(d) 112,207	(d) 135,395
Malaya—							
Bullion	(a)	700	30,600	—	(a)	1,800	5,400
Palestine—							
Bullion	62,300	19,300	(a)	(a)	(a)	(a)	(a)
Australia—							
Bullion	6,000	19,000	44,000	40,327	30,081	74,688	79,186
Fiji—							
Bullion	—	2,800	530	122	125	119	233
New Zealand—							
Bullion	11,100	3,000	2,800	3,700	{ (e) 400	40	674
Beaten, rolled drawn					{ (e) 152,350	—	2,800
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Bullion and scrap	(a)	(a)	1,590,000	(a)	(a)	(a)	4,557,000
Beaten, rolled or drawn							

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

(a) Information not available.

(b) Includes trade by land as recorded.

(c) Years ended June 30 of that stated.

(d) Sea-borne trade only.

(e) Gross weight.

IMPORTS OF SILVER (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Czechoslovakia—							
Bullion and scrap ..	(a)	—	60,000	—	(a)	(a)	(a)
Denmark—							
Bullion	64,000	2,155,000	749,000	809,000	1,189,000	1,260,000	836,000
Beaten, rolled or drawn	38,000	1,200,000	494,000	379,000	577,000	688,000	1,032,000
Finland—							
Bullion, etc.	11,000	15,000	14,000	15,000	(b) 46,000	112,000	1,360,000
France—							
Bullion	(a)	(a)	150,000	(a)	(a)	(a)	(b) 969,000
Beaten, rolled or drawn	6,000	10,000	37,000	54,000	(b) 64,000	153,000	597,000
Italy—							
Bullion, etc. (b)	—	12,900	1,121,000	532,000	1,213,000	653,000	1,218,000
Netherlands—							
Bullion and scrap ..	(a)	504,000	629,000	915,000	(a)	1,528,000	(b) 1,247,000
Norway—							
Bullion	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Beaten, rolled or drawn	20	568,000	804,000	507,000	600,000	700,000	577,000
Sweden—							
Bullion	900,000	4,000,000	1,500,000	2,100,000	2,300,000	3,800,000	1,800,000
Switzerland—							
Bullion	3,000,000	3,000,000	1,500,000	836,000	750,000	1,020,000	3,110,000
Algeria—							
Bullion, etc.	8,600	6,200	13,400	83,000	69,000	63,000	76,000
Egypt—							
Bullion and scrap ..	510,000	280,000	—	366,000	880,000	(a)	(a)
Tunis—							
Beaten, rolled or drawn	—	—	—	100	(a)	(a)	(a)
Guatemala—							
Bullion	(a)	(a)	(a)	8,200	2,300	10,000	—
United States—							
Ore and base bullion ..	33,050,441	28,738,365	} 91000,000	(a)	(a)	(a)	(a)
Refined bullion	17,560,165	32,954,607		(a)	(a)	(a)	(a)
Brazil—							
Bullion	1,344,000	1,360,000	384,000	481,000	(b) 626,000	(a)	(a)
Colombia—							
Bullion	(a)	1,390,000	(a)	(a)	(a)	(a)	(a)
Turkey—							
Bullion, etc.	—	60	1,500	2,700,000	(a)	(a)	7,600

(a) Information not available.

(b) Gross weight.

STRONTIUM MINERALS
PRODUCTION OF STRONTIUM MINERALS

(Long tons)

Producing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Celestite	—	—	5,012	7,407	4,794	6,653	16,350
Pakistan—							
Celestite	—	—	—	(a)	(a)	(a)	136
FOREIGN COUNTRIES							
France—							
Celestite	(a)	(a)	(a)	276	(a)	(a)	(a)
Spain—							
Strontianite	—	—	—	—	(a)	(a)	(a)
Tunis—							
Celestite	} 59	{ 44	44	15	—	—	24
Strontianite			185	103	—	148	399
Mexico (c)—							
Celestite	2,051	1,614	3,440	869	1,142	1,705	(d) 1,816
United States (b)—							
Celestite	2,846	217	—	—	—	—	—

Strontianite is also produced in Germany.

(a) Information not available.

(b) Shipments.

(c) Exports.

(d) Imports into the United States from Mexico.

EXPORTS OF STRONTIUM MINERALS, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Celestite (b)	—	2,259	3,879	5,395	4,378	5,942	10,689
FOREIGN COUNTRIES							
France—							
Strontium compounds ..	3	13	9	(a)	(a)	(a)	(a)
Germany (Federal)							
Strontianite and witherite	(a)	(a)	(a)	15	20	18	(c) 49
Strontium compounds ..	(a)	(a)	(a)	—	—	11	15
Italy—							
Strontianite and celestite	(a)	(a)	(a)	(a)	(a)	(d) 159	962
Spain—							
Strontianite (b) ..	602	—	5,211	13,048	2,913	—	(a)
Tunis—							
Strontium minerals ..	(a)	(a)	(a)	103	(a)	(a)	(a)
Mexico—							
Celestite	2,051	1,614	3,440	869	1,142	1,705	(b) 1,816
United States—							
Strontium nitrate ..	199	—	(a)	(a)	(a)	(a)	(a)
Other compounds ..	13	—	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

(d) July to December only.

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

(c) January to September only.

IMPORTS OF STRONTIUM MINERALS, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES							
France—							
Celestite	—	15	10	(a)	(a)	(a)	(a)
Strontium compounds ..	—	13	11	(a)	(a)	(a)	(a)
Mexico—							
Strontium carbonate ..	43	—	(a)	(a)	(a)	(a)	(a)
United States—							
Strontianite and celestite	3,296	4,024	12,604	19,438	8,379	7,706	12,539
Strontium compounds ..	—	—	13	1	20	16	—
Chile—							
Strontium compounds ..	(9 cwt.)	(12 cwt.)	(a)	(a)	(a)	(a)	(a)
Turkey—							
Strontium compounds ..	1	—	1	10	1	—	1

(a) Information not available.

SULPHUR
PRODUCTION OF SULPHUR*
 (Long tons)

Producing Country and Description	Estimated Sulphur Content						1951	1950	1949	1948	1947	1946	1945
	1945	1946	1947	1948	1949	1950								1951
BRITISH COUNTRIES													
United Kingdom—													
Spent oxide (b)	218,100	217,700	223,000	238,300	218,300	244,000	304,804						
Canada—													
Smelter gas	(a)	(a)	(a)	(a)	(a)	(a)	(a)						
Australia—													
Sulphur recoverable from zinc concentrates	(a)	(a)	(a)	(a)	(a)	(a)	(a)						
Spent oxide	(a)	(a)	(a)	(a)	(a)	12,000	12,000						
Irish Republic													
Spent oxide (c)	(£1,491)	(£1,513)	(£557)	(a)	(a)	(a)	(a)						
FOREIGN COUNTRIES													
France—													
Sulphur rock	(d)31,775	(d)11,756	105,079	139,122	115,784	140,245	265,000						
Greece—													
Sulphur rock	—	1,835	—	(a)	(a)	(a)	(a)						
Italy—													
Sulphur rock	625,742	1,036,587	1,073,142	1,342,311	1,520,588	1,646,110	(a)						
Crude sulphur (e)—													
Fused	(a)	140,764	146,088	170,904	185,566	209,766	197,382						
Ground	(a)	12,592	18,716	15,176	19,213	15,778	22,120						
Norway—													
Sulphur recovered from pyrites	21,428	70,751	81,121	77,985	79,901	94,671	96,856						
Poland—													
Sulphur	(a)	6,432	(a)	(a)	(a)	(a)	(a)						
Portugal—													
Sulphur recovered from pyrites	12,756	12,403	7,522	9,671	10,706	14,202	13,903						

* See also Pyrites (page 273).

(c) Consumed by the sulphuric acid industry.

(a) Information not available.

(d) Sales of concentrates.

(b) Estimated.

(e) Derived from sulphur rock above.

PRODUCTION OF SULPHUR (Cont.)

Producing Country and Description	Estimated Sulphur Content													
	1945	1946	1947	1948	1949	1950	1951	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)														
Spain—														
Sulphur rock	35,821	29,396	26,302	18,494	37,679	50,277	39,683	(a)	(a)	(a)	(a)	10,000	12,600	10,800
Refined sulphur (e)	21,950	37,521	23,204	33,648	32,985	37,085	38,998	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Sweden—														
Sulphur	24,291	21,395	13,982	12,138	11,769	14,354	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Egypt—														
Sulphur	285	—	—	—	—	—	—	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Mexico—														
Mined	(a)	(a)	3,100	2,100	9,600	9,600	10,904	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Refined sulphur (f)	—	—	—	—	—	—	19,444	(a)	(a)	(a)	(a)	(a)	(a)	(a)
United States—														
Crude sulphur	3,753,188	3,859,642	4,441,214	4,869,210	4,745,014	5,192,184	5,278,249	3,753,188	3,859,642	4,441,214	4,869,210	4,745,014	5,192,184	5,278,249
Smelter gas (b)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	275,000	234,000	237,000	187,000	167,000	216,000	240,800
By-product sulphur (c)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	25,184	34,990	43,427	44,369	56,781	142,475	184,013
Hydrogen sulphide (c)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	19,308	18,366	20,631	25,792	37,935	41,963	59,613
Argentina—														
Refined sulphur	11,488	10,070	10,871	8,388	10,048	7,622	7,560	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Bolivia (exports)—														
Refined sulphur	607	464	2,251	2,685	4,329	4,239	8,960	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Ecuador—														
Sulphur	(a)	(a)	23	43	16	27	1	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Chile—														
Refined sulphur	20,431	30,672	29,617	(a)	(a)	(a)	(a)	20,411	30,641	29,587	13,124	7,599	22,065	29,672
Colombia—														
Sulphur	—	—	—	—	—	1,461	2,274	—	—	—	—	—	(a)	(a)
Peru—														
Sulphur	1,197	363	778	911	248	98	2,145	(a)	(a)	(a)	(a)	(a)	(a)	(a)
China—														
Sulphur	2,000	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Iran—														
Sulphur (d)	600	600	600	600	1,500	1,500	1,500	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Japan—														
Refined sulphur	37,333	21,046	28,735	40,120	61,493	90,900	139,400	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Turkey—														
Refined sulphur	4,088	2,970	2,620	2,556	2,995	6,502	7,273	4,047	2,940	2,594	2,530	2,992	6,495	7,266

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

EXPORTS OF SULPHUR

(Domestic Produce)

(Long tons)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom	678	2,553	4,383	3,893	2,617	6,057	430
Union of South Africa ..	165	281	455	751	46	27	(a)
Hong Kong (re-exports)	(a)	419	778	1,300	2,648	5,065	638
Malaya (including re-exports)	(a)	278	54	32	85	54	16
Palestine	—	—	778	(a)	(a)	(a)	(a)
Australia— Zinc concentrates (S content) (b) ..	43,700	29,600	(a)	(a)	40,500	47,500	42,075
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.	(a)	(a)	(a)	1,668	1,847	2,740	4,741
France— Rock	4,876	863	16	(a)	(a)	(a)	(a)
Crude	1,738	1,772	1,230	1,733	1,764	916	2,618
Unrefined ground	(a)	(a)	(a)	2,025	1,664	1,405	3,277
Refined lump	2,145	7,995	4,767	9,243	12,789	10,000	10,796
Flowers of sulphur	—	857	8,023	1,073	317	57	313
Precipitated sulphur ..	—	549	1,737	700	321	6	8
Germany (Federal)— Sulphur, etc.	(a)	(a)	(a)	19	30	7,127	1,323
Italy	(a)	(a)	21,481	81,705	71,938	235,934	105,923
Norway	18,623	60,761	71,223	53,385	61,356	74,959	69,062
Portugal	385	199	8	40	208	59	6,685
Spain— Flowers of sulphur, etc.	2,564	2,020	1,982	183	2,301	1,331	5,704
Sweden	2,492	291	180	128	29	112	157
Algeria— Rock	—	4,557	—	—	1	—	9
Refined and flowers of sulphur	116	57	—	—	1	1	—
Mexico	1,234	3,033	1,154	1,691	325	630	6,835
United States— Crude	918,691	1,189,072	1,299,060	1,262,913	1,443,540	1,440,996	1,283,073
Refined and flowers of sulphur	23,964	56,748	50,477	32,630	30,051	37,526	24,044
Argentina	—	—	(a)	(a)	(a)	(a)	(a)
Bolivia	607	464	2,251	2,685	4,398	(a)	8,956
Chile	10,706	4,646	251	(a)	—	(a)	(a)
Peru	541	369	787	973	248	98	(a)
Japan	2,094	2,437	1,962	650	(a)	542	(a)
Turkey	(a)	(a)	(a)	(a)	(a)	(a)	1,104

(a) Information not available.

(b) Estimated amount recoverable.

IMPORTS OF SULPHUR

(Less Re-exports)

(Long tons)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom	198,154	246,436	304,701	347,735	392,012	438,551	377,220
Malta—							
Flowers of sulphur ..	—	(£5,223)	(£2,511)	(£3,902)	(£1,857)	(£6,259)	215
Kenya (b)	(a)	(a)	(a)	719	129	526	(g) 204
Mauritius	—	40	409	(a)	5	(g) 32	—
Northern Rhodesia ..	3	28	167	193	2	2	2
South West Africa ..	89	166	29	37	45	9	(a)
Southern Rhodesia ..	(a)	5	13	17	15	17	17
Uganda	(c)	(c)	(c)	(c)	214	450	208
Union of South Africa ..	33,728	29,438	36,397	44,892	61,438	67,246	57,687
British Guiana	2	2	1	8	1	7	8
Canada (d)	222,184	244,198	322,665	316,627	250,497	348,511	353,404
Newfoundland (e) ..	11,072	5,379	11,444	13,041	(c)	(e)	(e)
Ceylon	612	884	951	639	380	71	382
Cyprus	501	423	799	936	1,222	118	1,188
Hong Kong (total imports)	(a)	829	1,291	2,185	3,003	10,026	33
India (total imports) ..	10,728	37,909	37,520	37,224	39,426	56,488	38,507
Malaya (total imports) ..	(a)	235	257	61	225	529	180
Palestine	2,083	1,167	(a)	(a)	(h)	(h)	(h)
Australia	67,074	72,939	110,634	144,084	144,037	191,790	99,382
New Zealand	51,872	43,632	79,006	54,393	64,846	62,499	73,759
Irish Republic	131	164	229	148	232	284	238
FOREIGN COUNTRIES							
Austria	(a)	(a)	7,788	2,559	17,829	30,713	18,911
Belgium-Luxemburg E.U.	(a)	(a)	(a)	85,241	87,241	62,444	59,211
Bulgaria	112	647	(a)	(a)	(a)	(a)	(a)
Czechoslovakia—							
Crude and ground ..	(a)	12,731	7,004	(f) 16,818	(a)	(a)	(a)
Flowers of sulphur ..	(a)	10	188	(f) 91	(a)	(a)	(a)
Denmark	88	1,014	877	1,625	802	1,182	785
Finland (total imports) ..	2,992	20,635	16,111	20,691	19,264	22,281	35,936
France—							
Rock	—	31,995	38,472	(a)	(a)	(a)	(a)
Crude	123,549	155,617	136,823	115,676	162,460	139,715	119,814
Unrefined ground ..	(a)	(a)	(a)	280	1	11	32
Refined lump	2,441	445	398	—	9	—	—
Flowers of sulphur ..	89	1	85	—	200	21	—
Precipitated	8	—	4	8	9	9	7
Germany (Federal)—							
Sulphur, etc.	(a)	(a)	(a)	12,306	24,196	30,457	20,231
Greece	6,193	3,412	1,732	10,478	2,766	16,555	11,808
Iceland	1	1	1	2	—	—	—
Netherlands	(a)	1,665	5,688	4,993	4,078	2,653	3,274
Norway	47	60	43	47	71	183	(a)
Portugal—							
Crude	4,871	1	300	700	200	200	195
Flowers of sulphur ..	12	32	153	113	64	52	2
Other sulphur	—	4	15	21	20	7	6
Spain—							
Crude	9,801	5,021	20,692	1,968	2,399	11,522	2,801
Flowers of sulphur ..	—	57	44	79	3,536	30	50
Sweden	9,414	49,654	54,458	54,795	49,919	52,206	60,229

(a) Information not available.

(b) Including Uganda up to 1948 inclusive.

(c) Included with Kenya.

(d) Including Newfoundland from April 1, 1949.

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

(f) January to October only.

(g) Excess of re-exports.

(h) See "Israel" under Foreign Countries.

IMPORTS OF SULPHUR (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Switzerland—							
Crude and ground ..	15,033	18,280	23,780	44,136	8,685	27,579	16,280
Flowers of sulphur ..	4	259	190	130	177	270	329
Yugoslavia	(a)	(a)	(a)	(a)	(a)	4,351	2,397
Algeria—							
Rock	28	98	—	98	2	34	42
Crude	19,509	24,793	14,584	8,211	18,809	14,969	16,073
Unrefined, ground ..							
Refined	1,902	8,932	3,208	7,096	7,085	2,291	5,109
Flowers of sulphur ..	—	7	5,212	1,027	251	34	182
Precipitated	6	1,433	1,625	637	48	2	5
Angola	50	50	(a)	(a)	(a)	(a)	(a)
Belgian Congo	93	—	164	(a)	(a)	90	(a)
Egypt	2,746	2,337	2,725	3,995	4,716	9,324	(a)
Madagascar	226	15	72	75	(a)	(a)	(a)
Morocco (French)—							
Crude	149	221	220	(a)	(a)	(a)	(a)
Refined	242	1,871	1,082	(a)	(a)	(a)	(a)
Morocco (Spanish) ..	105	50	55	(a)	(a)	(a)	(a)
Mozambique	639	344	419	302	278	612	1,025
Tunis—							
Crude	6,574	15,151	3,173	8,225	8,862	(a)	(a)
Refined and flowers of sulphur	—	560	209	5	214	(a)	(a)
Costa Rica	44	6	(a)	53	(a)	(a)	(a)
Cuba (total imports) ..	1,301	(a)	(a)	3,659	5,679	(a)	(a)
Guatemala	(a)	(a)	(a)	121	113	124	113
Mexico	4,071	3,229	3,008	4,718	7,045	11,227	9,934
United States	33	35	15	38	32	25	2,376
Argentina—							
Crude	30,114	23,561	47,289	28,348	26,900	22,684	10,999
Refined and flowers of sulphur	444	232	(a)	(a)	(a)	(a)	(a)
Brazil (total imports) ..	19,070	26,868	41,944	31,353	44,572	66,704	(a)
Chile	1	3	(a)	(a)	(a)	(a)	(a)
Colombia	(a)	1,277	(a)	(a)	669	2,042	(a)
Peru	341	472	(a)	(a)	(a)	(a)	(a)
Uruguay	5,330	14,537	1,212	4,165	4,548	14	(a)
Venezuela	59	134	108	287	(a)	(a)	(a)
China	(a)	2,530	3,112	(a)	(a)	(a)	(a)
Iran (b)	(a)	1,037	39	(a)	(a)	(a)	(a)
Israel	(c)	(c)	(c)	(c)	3,608	2,138	(a)
Syria and Lebanon ..	546	473	626	(a)	(a)	(a)	(a)
Turkey—							
Refined and flowers of sulphur	994	3,741	6,579	2	2,247	130	—

(a) Information not available.

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

(c) See "Palestine" under British Countries.

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

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Great Britain	2,136	3,383	3,326	4,000	3,000	1,700	2,500
Kenya (b)	66	(a)	20	10	83	10	—
Union of South Africa	1,916	3,622	2,655	4,820	5,301	3,915	5,573
Canada (shipments)	24,186	26,208	23,847	25,096	} 24,038	29,111	22,184
Newfoundland (c)	700	650	216	—			
India	22,511	23,472	23,240	18,096	21,195	25,485	32,378
Pakistan	(a)	(a)	(a)	(a)	58	(a)	(a)
Australia—							
Talc	} 4,790	5,745	{ 5,733	5,690	8,029	9,047	12,597
Pyrophyllite .. ..									102	411	550	648	552
FOREIGN COUNTRIES							
Austria	3,869	22,184	25,252	48,742	55,165	57,754	71,634
France	40,008	62,349	68,683	90,070	98,475	86,035	105,800
Germany	(a)	(a)	(a)	(a)	(f) 8,707	(f) 13,104	(f) 18,886
Greece	—	500	200	1,033	1,673	2,500	(a)
Italy	39,231	35,782	47,613	69,031	59,259	65,683	74,629
Norway	(d) 15,277	41,648	53,785	56,322	53,447	63,081	(a)
Portugal	—	—	—	21	3	2	1
Spain	15,330	19,227	20,505	18,332	20,551	11,326	20,515
Sweden	9,212	13,788	10,541	11,518	11,115	11,784	(a)
Egypt	3,807	4,684	4,557	5,434	5,485	3,675	3,698
United States—							
Talc	300,656	323,919	364,289	375,587	328,950	446,321	571,836
Pyrophyllite	69,389	87,290	96,830	96,326	81,179	104,286	107,171
Argentina	2,639	3,701	(a)	(a)	(a)	(a)	(a)
Brazil	2,665	4,117	9,350	10,573	17,501	12,432	(a)
Chile	469	(a)	(a)	257	108	140	(a)
Uruguay	(a)	1,789	2,633	2,937	650	670	944
Japan—							
Talc	(a)	(a)	12,791	13,677	12,385	12,200	10,003
Pyrophyllite	196,499	109,800	160,552	220,919	245,609	265,901	(a)
Korea (c)	(d) 11,960	(a)	(a)	(a)	(e) 307	(a)	(a)
TOTAL*	776,000	808,000	961,000	1,108,000	1,066,000	1,231,000	1,430,000

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

(a) Information not available.

(b) In addition the following amounts of Kisii stone were produced (long tons): 1945—133; 1946—482; 1947—272; 1948—312; 1949—497; 1950—318; 1951—332.

(c) Pyrophyllite.

(d) Incomplete.

(e) Southern Korea only.

(f) Bizonal area.

EXPORTS OF TALC

(Domestic Produce)

(Long tons)

Exporting Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom	62	(a)	(a)	(a)	(a)	(a)	(a)
Canada (b)	6,574	5,716	5,185	4,511	3,770	3,989	3,342
Newfoundland (c) ..	80	261	206	—	(c)	(c)	(c)
India	7,463	5,354	3,623	3,683	2,802	3,188	5,344
Malaya (incl. re-exports) ..	(a)	158	256	471	508	613	651
Australia	(a)	51	1	5	11	—	22
FOREIGN COUNTRIES							
Austria	(a)	(a)	6,178	19,657	22,720	27,150	34,984
Belgium-Luxemburg E.U.	(a)	(a)	(a)	68	36	33	120
Czechoslovakia	(a)	148	165	(d) 153	(a)	(a)	(a)
France	11,467	24,628	26,633	23,324	21,053	30,115	35,081
Germany (Federal) ..	(a)	(a)	(a)	(a)	43	169	424
Greece	(a)	(a)	(a)	54	128	1,771	(a)
Italy	(a)	(a)	22,974	31,925	23,489	27,055	32,021
Norway	16,435	24,845	35,010	37,624	35,317	44,274	50,562
Egypt	680	—	—	1,656	1,819	(a)	(a)
United States	10,102	14,619	15,676	14,578	14,143	18,432	20,449
Uruguay	(a)	(a)	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

(b) Including Newfoundland from April 1, 1949.

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

(d) January to October only.

IMPORTS OF TALC

(Less Re-exports)

(Long tons)

Importing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Unground	2,015	657	1,069	814	1,271	513	1,135
Ground	6,361	12,120	22,101	19,585	23,367	27,028	34,944
Canada	5,704	6,015	7,565	6,947	6,490	8,003	8,289
Cyprus	—	(£401)	10	11	37	30	21
India	—	—	1	—	—	—	—
Malaya (total imports) ..	(a)	373	177	319	573	430	558
Australia	287	33	240	290	370	287	359
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.	(a)	(a)	(a)	6,409	4,936	6,165	8,234
Czechoslovakia	(a)	1,360	595	(b) 320	(a)	(a)	(a)
Denmark	3,545	5,064	5,657	5,545	5,858	6,842	7,979
Finland (total imports) ..	630	1,283	2,961	2,430	3,218	3,810	5,048
France	6	110	827	3,092	357	725	1,938
Germany (Federal)	(a)	(a)	(a)	12,589	11,755	17,434	18,583
Netherlands	(a)	(a)	(a)	14,417	9,629	12,049	11,582
Portugal	44	733	349	190	431	622	553
Sweden	(a)	(a)	(a)	(a)	1,981	1,044	(a)
Yugoslavia	(a)	(a)	(a)	(a)	(a)	123	93
Algeria	—	—	945	1,451	823	950	1,546
Belgian Congo	3	46	14	(a)	(a)	66	(a)
Egypt (c)	26	19	119	90	191	(a)	(a)
Morocco (French)	213	45	10	(a)	(a)	(a)	(a)
Morocco (Spanish)	11	6	40	(a)	(a)	(a)	(a)
Tunis	113	315	434	127	(a)	(a)	(a)
Mexico	708	1,429	1,639	903	(a)	(a)	(a)
United States	5,982	16,472	15,808	16,408	16,800	20,872	18,430
Argentina	45	175	(a)	(a)	(a)	(a)	(a)
Brazil	189	79	527	202	31	(a)	(a)
Chile	38	52	(a)	(a)	(a)	(a)	(a)
Colombia	(a)	189	(a)	(a)	169	169	(a)
Peru	80	24	(a)	(a)	(a)	(a)	(a)
Venezuela	100	200	249	251	(a)	(a)	(a)
Japan (total imports) ..	(a)	583	2,473	958	886	(a)	4,518
Syria and Lebanon	10	71	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

(b) January to October only.

(c) Total imports.

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

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Nigeria—							
Tantalite	13	1	4	4	2	1	3
Columbite	1,571	1,550	1,286	1,096	888	864	1,078
Southern Rhodesia—							
Tantalite	7	8	12	8	5	1	—
South West Africa—							
Tantalite and columbite	—	—	(500 lbs.)	(17 lbs.)	3	6	2
Uganda—							
Tantalite	} 8	{ —	} (b) 2	(b) 1	{ —	(b) —	(b) —
Columbite							
Bismutotantalite							
(c)(670 lbs.)	—	—	—	—	—	—	—
Union of South Africa—							
Tantalite	(776 lbs.)	—	—	—	—	2	3
Malaya—							
Columbite	—	—	—	—	—	8	25
Australia—							
Tantalite concentrates ..	(1,050 lbs.)	(806 lbs.)	(112 lbs.)	5	2	7	2
FOREIGN COUNTRIES							
Belgian Congo—							
Tantalite and columbite concentrates	195	165	155	143	114	133	94
Tin-tantalite-columbite	—	—	286	513	867	1,086	1,159
French Equatorial Africa—							
Tantalite and columbite	2	1	1	2	6	2	—
Madagascar—							
Columbite	—	—	—	—	—	—	4
Mozambique—							
Columbite	2	(400 lbs.)	—	—	(570 lbs.)	5	5
United States—							
Tantalite	2	2	1	(500 lbs.)	} (1,020 lbs.)	(1,000 lbs.)	(1,000 lbs.)
Columbite	1	—	—	(100 lbs.)			
Argentina—							
Tantalite and columbite	(1,000 lbs.)	(a)	(a)	(a)	(a)	(a)	(a)
Bolivia (exports)—							
Columbite	—	3	—	—	—	—	(a)
Brazil (exports)—							
Tantalite	30	44	32	4	41	(a)	(a)
Columbite	(a)	7	—	5	12	(a)	(a)

(a) Information not available.

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

(c) Exports.

EXPORTS OF TANTALITE AND COLUMBITE

(Domestic Produce)

(Long tons)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Tantalum	—	(5 lbs.)	(1 lb.)	4	—	(a)	(a)
Nigeria—							
Tantalite	14	7	3	2	—	3	2
Columbite	1,975	1,438	1,290	1,239	945	916	1,092
South West Africa—							
Tantalite	—	—	—	—	1	4	3
Southern Rhodesia—							
Tantalite	5	7	7	11	4	4	—
Uganda—							
Tantalite	2	} 4	} 2	} 1	} 2	} 5	} 19
Columbite	4						
Bismutotantalite	(670 lbs.)	—	—	—	—	—	—
Union of South Africa—							
Tantalite	—	—	—	—	—	2	3
Australia—							
Tantalite and columbite	(c) 12	1	4	4	1	6	2
FOREIGN COUNTRIES							
Belgian Congo—							
Tantalite and columbite	208	(b) 117	170	125	193	488	231
French Equatorial Africa—							
Tantalite and columbite	—	—	—	2	6	2	—
United States—							
Tantalite	(11 lbs.)	(21 lbs.)	—	(60 lbs.)	1	—	143
Columbite	2	4	5	(660 lbs.)	8	49	—
Bolivia—							
Columbite	—	3	—	—	—	(a)	(a)
Brazil—							
Tantalite	30	44	32	4	41	(a)	(a)
Columbite	—	7	—	5	12	(a)	(a)

(a) Information not available.

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

(c) Year ended June 30 of year stated.

IMPORTS OF TANTALITE AND COLUMBITE

(Less Re-exports)

(Long tons)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Tantalite and columbite	(a)	(a)	292	329	387	586	538
Tantalum powder, sheet, etc.	(226 lbs.)	(265 lbs.)	(170 lbs.)	(317 lbs.)	(131 lbs.)	(187 lbs.)	(377 lbs.)
FOREIGN COUNTRIES							
United States—							
Tantalite	281	162	187	52	61	147	106
Columbite	1,887	1,083	1,260	878	695	771	681

(a) Information not available.

TIN
PRODUCTION OF TIN ORE

(In terms of metal)

(Long tons)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Great Britain	993	849	820	862	898	889	809
Nigeria	11,224	10,333	9,133	9,237	8,825	8,258	8,539
Northern Rhodesia	18	6	1	—	7	4	2
Southern Rhodesia	125	100	122	114	74	66	59
South West Africa	184	177	146	111	119	90	75
Swaziland	53	37	24	20	32	37	32
Tanganyika	137	127	93	95	109	94	66
Uganda	203	202	156	176	174	139	120
Union of South Africa	501	487	483	457	471	643	747
Canada (smelter)	379	390	319	309	276	355	356
Burma	(d) 775	342	1,792	(e) —	(e) —	(e) —	(e) —
Malaya	3,152	8,432	27,026	44,815	54,910	57,537	57,167
Australia	2,282	2,141	2,456	1,885	1,882	1,855	1,577
TOTAL	20,000	23,600	42,570	58,080	67,777	69,967	69,549
FOREIGN COUNTRIES							
France	10	10	43	76	78	117	(b) 170
Germany (b)	—	—	—	—	120	120	120
Italy	35	100	50	—	—	—	—
Portugal	581	409	555	706	1,039	947	1,211
Spain	1,141	921	303	261	666	(b) 575	(b) 716
Belgian Congo	17,524	14,634	12,752	13,215	13,963	13,796	13,917
Cameroon (French)	116	113	115	102	72	66	72
Egypt	13	25	—	—	—	—	—
French West Africa	—	—	—	—	26	50	18
Morocco (French)	8	9	—	—	—	—	13
Mozambique	3	2	1	1	1	1	8
Mexico	174	263	171	182	358	440	366
United States	—	—	1	5	68	94	90
Argentina	974	923	522	273	268	267	242
Bolivia (exports)	42,487	37,618	32,663	37,336	34,115	31,213	33,133
Brazil	122	269	272	172	206	180	(b) 240
Peru	1	2	51	64	51	38	40
Burma	(c) —	(c) —	(c) —	1,147	1,781	1,520	1,624
China (smelter)	3,268	1,930	3,907	4,800	4,200	4,000	4,800
French Indo-China	86	—	—	30	40	60	92
Indonesia	948	6,426	15,915	30,562	29,033	32,102	30,986
Japan	56	82	102	118	190	326	427
Siam	1,775	1,056	1,401	4,240	7,815	10,366	9,503
Total	69,300	64,780	68,800	93,300	94,100	96,300	97,800
WORLD'S TOTAL (excl. U.S.S.R.)	89,300	88,400	111,400	151,400	161,900	166,300	167,300

(a) Information not available.

(b) Estimated.

(c) Included under British Countries.

(d) Average annual production during Japanese occupation.

(e) Included under Foreign Countries.

SMELTER PRODUCTION OF TIN

(Long tons)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom (b) ..	27,549	29,121	28,083	31,002	28,384	28,500	27,650
Southern Rhodesia ..	117	79	121	127	75	80	63
Union of South Africa ..	1,032	858	601	554	595	718	829
Canada	379	390	319	309	276	355	356
Malaya	(c) 3,500	11,533	29,318	49,707	62,737	68,747	65,914
Australia	2,359	2,225	2,371	1,885	1,955	2,014	1,459
TOTAL	34,936	44,206	60,813	83,584	93,962	100,400	96,271
FOREIGN COUNTRIES							
Belgium	—	1,405	12,059	10,469	8,996	9,512	8,360
Italy	6	75	46	—	—	—	—
Netherlands	—	945	8,981	16,402	19,247	21,027	20,977
Portugal	101	187	373	282	218	209	313
Spain	712	1,267	622	565	640	896	884
Belgian Congo	8,530	3,533	3,076	3,875	3,247	3,238	3,011
Mexico	160	263	161	170	(c) 325	(c) 425	(c) 350
United States	40,475	43,468	33,292	36,703	35,834	33,118	31,526
Argentina	631	777	433	254	235	253	206
Bolivia (exports)	1	—	22	105	—	392	39
Brazil	169	178	220	185	157	118	(c) 180
China	3,268	1,930	3,907	4,800	4,200	4,000	4,800
French Indo-China	14	—	—	31	—	—	—
Indonesia	844	—	—	—	—	—	—
Japan	120	106	52	149	290	389	574
Siam	1,652	389	141	—	—	2	—
TOTAL	56,700	54,500	63,400	74,000	73,400	73,600	71,200
WORLD'S TOTAL	91,600	98,700	124,200	157,600	167,400	174,000	167,500

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

	Long tons			Long tons	
1945	31,369		1949	22,233	
1946	24,706		1950	31,680	
1947	26,834		1951	30,745	
1948	26,896				

(a) Information not available.

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

(c) Estimated.

EXPORTS OF TIN

(Domestic Produce)

(Long tons)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Blocks, ingots, bars and slabs	9,803	20,600	3,909	2,216	4,204	15,460	4,912
Soft solder	1,122	1,840	831	1,256	1,362	2,053	2,618
Tin-foil	116	365	395	278	210	255	120
Nigeria—							
Ore	15,166	13,929	14,090	12,169	12,676	11,417	11,753
Southern Rhodesia—							
Ore and concentrates ..	22	38	28	43	—	82	—
Blocks, ingots and bars	65	23	12	12	3	5	5
South West Africa—							
Ore (c)	229	262	224	146	91	67	47
Tanganyika—							
Ore and concentrates ..	187	181	129	133	140	142	93
Uganda—							
Ore	287	296	189	283	185	260	155
Union of South Africa—							
Bars, sheet, etc. ..	31	148	154	—	—	—	(a)
Burma—							
Ore and concentrates (c)	(a)	{ (b) 96	(a)	(a)	(a)	(a)	(a)
Blocks, ingots, etc. ..		{ (b) 1	(a)	(a)	(a)	(a)	(a)
Hong Kong (re-exports)—							
Slabs and ingots ..	(a)	2,006	2,588	2,080	4,193	1,136	101
India—							
Blocks, ingots, bars, slabs and scrap	104	—	1	242	—	—	—
Malaya—							
Ore	(a)	{ 344	—	40	—	9	1
Ingots, blocks, bars, slabs		{ 7,619	32,072	47,215	54,783	81,805	64,956
Australia—							
Ore and concentrates (d)	1	(a)	(a)	25	12	(e) 5	(e) 41
Ingots	468	103	14	—	1	—	—
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Crude	40	2,780	12,562	{ 10,356	9,809	10,193	8,484
Scrap				{ 24	63	57	68
Sheets, wire, etc. ..				{ 10	—	7	4
Denmark—							
Crude	1	8	109	218	117	399	11
Scrap	—	—	3	2	—	—	(a)
France—							
Ore	—	—	2	(a)	(a)	(a)	(a)
Pigs, bars, etc.	22	129	73	108	77	174	172
do. (alloys)	3	21	126	218	265	503	320
Scrap	—	—	1	—	9	25	12
Sheets and wire	1	10	66	123	115	62	82

(a) Information not available.

(b) February to September only.

(c) Excluding tin-tungsten ore.

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

(e) Sn content during calendar years.

EXPORTS OF TIN (Cont.)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Germany (Federal)—							
Crude, scrap and alloys	}	(a)	(a)	{	371	931	302
Sheets and wire					—	26	23
Tin-foil					—	—	1
Italy—							
Ingots, bars, scrap, sheets, alloys, etc.	—	—	—	13	100	2	5
Netherlands—							
Ore	(a)	—	—	4	—	—	—
Blocks	(a)	267	4,771	12,252	19,248	17,847	19,383
Sheets, wire, etc.	(a)	2	25	6	(a)	2	1
Norway—							
Ingots and bars	25	93	119	111	116	152	(a)
Portugal—							
Ore	—	181	317	636	1,214	1,156	(a)
Bars	649	244	248	199	51	3	14
Spain—							
Ingots and bars	2	9	8	440	5	176	35
Sweden—							
Crude and scrap	—	10	—	—	54	5	12
Switzerland—							
Pigs, bars, slabs, sheets, etc.	—	6	9	8	7	36	9
Tin-foil	—	—	18	24	2	3	6
Scrap	—	—	19	1	19	133	288
Algeria—							
Ingots, scrap and alloys	5	974	6	—	37	34	44
Belgian Congo—							
Ore	11,483	17,629	19,623	14,394	13,474	15,755	13,501
Ingots	6,861	4,383	4,311	3,860	4,517	3,921	2,670
Cameroon (French)—							
Ore	187	85	212	113	143	110	102
Morocco (French)—							
Ore	—	—	20	(a)	—	—	—
Mozambique—							
Ore	4	1	—	—	—	—	—
Mexico—							
Ores and concentrates	38	—	28	34	94	13	1,663
Sn content	11	—	10	12	33	5	582
Crude and scrap	6	1	3	239	(a)	(a)	(a)
United States—							
Ingots, pigs, etc.	708	859	414	78	76	287	264
Scrap	3,453	6,864	6,678	9,138	9,225	2,801	5,519
Tubes, sheets, foil	103	94	93	45	36	27	24
Argentina—							
Ore	637	79	}	(a)	(a)	(a)	(a)
Slag and ashes	489	2,016					
Ingots and bars	—	—					
Bolivia—							
Ores, concentrates, etc. (Sn content)	42,487	37,618	32,663	37,336	34,115	31,424	33,000
Metal	1	—	26	81	405	269	(a)
Peru—							
Slag (Sn content)	—	2	50	64	51	45	(a)
Burma—							
Ore and concentrates (Sn content)	(b)	(b)	(b)	1,833	1,511	1,416	(a)
China—							
Ingots and slabs	1,560	1,535	4,050	3,850	(c) 3,000	(c) 3,000	(c) 3,000
French Indo-China—							
Ore (Sn content)	—	—	11	33	286	259	92
Ingots and scrap	(a)	(a)	134	94	274	259	182
Indonesia—							
Ore	(a)	(a)	16,285	45,559	43,097	43,231	44,220
Siam—							
Ore (Sn content)	69	—	5,277	5,651	7,977	10,955	8,809

(a) Information not available.

(b) See under British Countries.

(c) Estimated.

IMPORTS OF TIN

(Less Re-exports)

(Long tons)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Ore and concentrates ..	44,861	47,152	39,348	48,440	46,655	46,130	50,610
Blocks, ingots, bars and slabs	57	634	230	158	538	} 4,069	9,927
Soft solder	—	21	3	7	5		
Anglo-Egyptian Sudan—							
Unwrought incl. scrap ..	73	15	16	24	12	8	(a)
Kenya (g)—							
Unwrought incl. scrap ..	(a)	(a)	(a)	(e) 190	26	35	37
Bars, plates and sheets ..	36	55	6	17	10	—	—
Solder	(a)	(a)	(a)	78	94	65	64
Southern Rhodesia—							
Blocks, ingots and bars	—	—	—	10	3	26	33
South West Africa—							
Bars, sheets, etc. ..	—	—	—	1	1	—	(a)
Tanganyika—							
Unwrought incl. scrap ..	(a)	(a)	(a)	9	1	(e) 1	7
Bars, plates and sheets ..	—	1	—	1	22	5	—
Solder	(a)	(a)	(a)	30	30	38	57
Uganda—							
Solder	(h)	(h)	(h)	(h)	16	11	11
Union of South Africa—							
Blocks, ingots, bars and rods	6	93	48	568	635	773	1,236
Tin-foil	23	26	8	15	8	14	(a)
Canada (c)—							
Blocks, pigs and bars ..	3,212	3,751	3,961	3,598	3,676	4,817	6,135
Tin-foil	61	3	4	1	3	15	4
Newfoundland (d)—							
Bars, sheets, ingots, etc.	219	254	402	154	(d)	(d)	(d)
Aden—							
Blocks, ingots, etc. ..	38	—	—	12	(e) 5	386	—
Burma—							
Blocks, ingots, etc. ..	(a)	(j) 10	(a)	(a)	(a)	(a)	(a)
Ceylon—							
Ingots, slabs, etc. ..	56	—	50	44	6	15	33
Tin solder	81	10	17	32	23	26	23
Cyprus—							
Ingots and bars	11	10	9	19	1	13	6
Hong Kong (total imports)—							
Slabs and ingots	(a)	2,069	2,567	2,969	3,182	595	205
India—							
Blocks, ingots, bars and slabs	(e) 676	341	575	582	} 3,876	4,737	2,905
do. (Government stores)	5	50	757	200			
Malaya (b)—							
Ore	} (a)	{ 654	4,559	4,848	9,053	13,559	10,539
Ingots, blocks, bars, slabs								106	180	167	30	28	2
Palestine—							
Ingots and bars	70	103	(a)	(a)	(j)	(j)	(j)
Tin-foil	1	11	(a)	(a)	(j)	(j)	(j)
Australia—							
Ingots	—	—	300	276	270	249	2,723
Rods, sheets, tubes, etc.	(a)	(i) 2,103	(i) —	(i) 1	(i) 9	1	—
Foil (i)	105	66	556	237	164	171	(a)
New Zealand—							
Ingots, etc.	621	74	266	425	310	136	450

(a) Information not available.

(b) Total imports.

(c) Including Newfoundland from April 1, 1949.

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

(e) Included with Canada from April 1, 1949.

(f) Excess of re-exports.

(g) February to September only.

(h) Including Uganda up to 1948 inclusive.

(i) Included with Kenya.

(j) Years ended June 30 of that stated.

(k) See "Israel" under Foreign Countries.

IMPORTS OF TIN (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES (Cont.)							
Irish Republic—							
Ingots, bars, slabs, etc.	15	31	40	47	63	84	79
Soft solder	95	60	144	166	114	131	155
Tin-foil	2	9	54	33	3	26	19
FOREIGN COUNTRIES							
Austria—							
Crude and alloys ..	(a)	(a)	(a)	(a)	630	581	894
Belgium-Luxemburg E.U.—							
Ore	(a)	(a)	15,669	14,987	11,885	12,844	12,097
Crude	} 2,287	} 3,612	} 2,553	} 1,783	} 1,243	} 1,431	} 1,959
Scrap							
Sheets, wire, etc. ..							
Bulgaria—							
Crude, bars, sheets, scrap, etc.	104	9	(a)	(a)	(a)	(a)	(a)
Czechoslovakia—							
Crude, scrap and alloys	(a)	138	1,336	(b) 1,203	(a)	(a)	(a)
Denmark—							
Crude	228	659	662	706	344	1,036	1,010
Scrap	—	—	—	—	—	18	107
Sheets, wire, etc. ..	—	12	7	5	3	28	44
Tin-foil	—	23	22	6	8	26	18
Finland (total imports)—							
Ingots, bars and scrap ..	17	353	376	437	418	430	719
Tin solder	—	24	32	46	46	123	135
France—							
Ore	—	—	327	(a)	(a)	(a)	(a)
Pigs, bars, etc.	3,193	6,910	9,300	7,618	4,410	5,664	9,635
do. (alloyed with antimony)	1	51	35	563	47	50	272
Scrap	—	116	209	215	85	28	54
Sheets and wire	6	1	3	8	21	5	3
Germany (Federal)—							
Ore	(a)	(a)	(a)	—	1,085	4,899	1,862
Crude and scrap	(a)	(a)	(a)	1,844	3,999	8,614	8,164
Sheets and wire	(a)	(a)	(a)	1	—	—	—
Greece	—	104	338	52	246	291	166
Italy—							
Ingots, bars, scrap and alloys	—	581	2,729	1,161	1,646	4,174	4,391
Sheets, tubes, wire and alloys	—	—	22	17	9	6	—
Netherlands—							
Ore	(a)	1,325	15,852	24,339	23,990	29,702	26,966
Blocks	(a)	777	859	359	462	118	2,313
Sheets, wire, etc. ..	(a)	2	—	—	—	—	—
Norway—							
Crude	82	549	253	443	197	441	506
Bars, sheets, filings, etc.	214	105	219	200	138	51	46
Portugal—							
Sheets, wire, etc. ..	6	1	1	—	—	—	1
Spain—							
Ingots and bars	90	278	1	99	178	213	(a)
Sweden—							
Crude	364	666	1,512	1,402	283	1,285	1,171
Switzerland—							
Pigs, bars and slabs ..	59	920	851	787	370	1,208	1,220
Sheets, wire, foil, etc. ..	—	6	3	7	2	5	4
U.S.S.R.—							
Blocks, ingots, etc. (c) ..	—	1,474	—	—	(a)	(a)	(a)
Yugoslavia—							
Ingots	(a)	(a)	(a)	(a)	(a)	378	550

(a) Information not available.

(b) January to October only.

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

IMPORTS OF TIN (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Algeria—							
Crude, sheets and alloys, etc.	101	188	305	251	139	119	158
Egypt—							
Crude and scrap	358	678	239	555	263	501	664
Madagascar—							
Bars, sheets, etc.	20	43	31	29	(a)	(a)	(a)
Morocco (French)—							
Ingots, etc.	19	100	160	(a)	(a)	(a)	(a)
Mozambique—							
Bars, sheets, etc.	7	3	6	6	1	1	1
Tunis—							
Pigs, bars and sheets	59	106	104	61	56	74	(a)
Cuba (total imports)—							
Ingots	70	(a)	(a)	49	28	(a)	(a)
Bars, sheets, etc.	129	(a)	(a)	14	17	(a)	(a)
Mexico—							
Ingots	7	91	289	167	(a)	(a)	302
United States—							
Ore (<i>Sn content</i>)	33,479	38,070	30,510	37,388	38,311	26,027	29,628
Blocks, pigs, bars, etc.	8,320	15,509	24,899	48,797	60,224	82,916	27,784
Scrap	—	—	49	86	48	148	147
Argentina—							
Ingots and sheets	2	395	876	1,659	630	968	(a)
Brazil (total imports)—							
Ingots and bars	362	779	848	1,203	946	1,552	3,313
Colombia—							
Ingots, bars, sheets, etc.	(a)	25	(a)	(a)	32	92	(a)
Chile—							
Ore	98	50	99	150	(a)	(a)	(a)
Ingots	88	163	162	142	} 100	590	290
Bars and sheets	—	—	(a)	(a)			
Peru—							
Bars, sheets, etc.	44	33	(a)	(a)	(a)	60	(a)
Uruguay—							
Ingots, etc.	(a)	(a)	(a)	82	34	163	(a)
Venezuela—							
Crude	64	35	45	63	(a)	(a)	(a)
China—							
Ingots and slabs	} (a)	860	26	(a)	(a)	(a)	(a)
Tin and lead foils							
Iran (total imports) (b)—							
Ingots, sheets and wire	(a)	473	579	(a)	(a)	(a)	(a)
Iraq—							
Crude, etc.	3	(a)	(a)	(a)	(a)	(a)	(a)
Sheets, wire, etc.	145	(a)	(a)	(a)	(a)	(a)	(a)
Israel—							
Ingots, blocks and slabs	(c)	(c)	(c)	(c)	49	44	(a)
Japan—							
Ingots and slabs	4,255	(a)	(a)	(a)	2,462	856	2,073
Syria and Lebanon—							
Ingots and sheets	42	106	102	36	40	(a)	(a)
Turkey—							
Ingots, bars and sheets	885	199	350	743	566	1,093	787

(a) Information not available.

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

(c) See "Palestine" under British Countries.

TITANIUM MINERALS
PRODUCTION OF TITANIUM MINERALS
(Long tons)

Producing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Canada (shipments)—							
Titanium ore	12,631	1,255	6,343	3,965	482	89,732	333,736
India—							
Ilmenite	172,086	185,023	260,955	229,416	308,180	212,663	219,568
Rutile	610	258	157	127	—	36	45
Malaya (exports)—							
Ilmenite ("Amang") ..	(a)	—	13,081	13,566	19,718	24,915	43,493
Australia—							
Ilmenite concentrates ..	5,403	5,789	9,773	11,498	10,875	13,554	12,996
Estimated ilmenite content of all ilmenite-bearing concentrates (b)	8,360	6,610	10,310	11,273	9,728	12,221	11,900
Rutile concentrates ..	3,960	4,906	8,464	13,387	13,094	18,312	35,188
Estimated rutile content of all rutile-bearing concentrates (c) ..	9,744	8,152	13,194	15,007	13,738	17,701	34,973
FOREIGN COUNTRIES							
Norway—							
Ilmenite	27,865	51,744	68,610	88,595	97,449	103,489	103,696
Rutile (d)	75	62	50	—	16	31	18
Portugal—							
Ilmenite	573	380	239	151	904	65	166
Tin-titanium ore ..	43	11	4	44	57	42	29
Spain—							
Ilmenite	213	126	147	178	370	627	430
Cameroon (French)—							
Rutile	1,417	1,240	744	567	396	25	104
Egypt—							
Ilmenite	45	144	—	2,593	635	256	321
French Equatorial Africa—							
Rutile	—	—	—	—	—	6	—
French West Africa—							
Ilmenite	3,149	4,125	11,104	3,632	8,206	776	3,740
Rutile	—	—	—	—	—	—	3
United States—							
Ilmenite	275,461	252,185	300,476	342,629	359,227	418,143	456,866
Rutile	6,410	6,654	7,645	6,589	10,704	(a)	(a)
Brazil (exports)—							
Ilmenite	4,921	—	—	7,775	(a)	(a)	(a)
Rutile	157	28	5	—	(a)	(a)	(a)

(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	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Ferro-titanium	(a)	193	310	309	490	568	535
Canada—							
Titanium ore	12,631	1,207	1,116	(a)	(a)	(a)	(a)
Malaya—							
Ilmenite ("Amang") ..	(a)	—	13,081	13,566	19,718	24,915	43,493
India—							
Ilmenite	159,229	202,404	284,703	247,221	266,063	240,783	243,811
Rutile sand	164	50	131	(a)	(a)	36	45
Australia—							
Rutile	(a)	4,857	8,880	13,270	11,623	15,292	35,040
Rutile-Ilmenite	(a)	10	75	916	194	—	980
Zircon-Rutile	(a)	5,768	10,370	4,160	2,964	1,564	—
Zircon-Rutile-Ilmenite	(a)	2,458	2,063	180	—	4	—
FOREIGN COUNTRIES							
Belgium-Luxemburg E.U.—							
Titanium white	(a)	(a)	(a)	504	9	144	31
Czechoslovakia—							
Titanium white	(a)	636	596	(b) 414	(a)	(a)	(a)
France—							
Titanium oxide, etc. ..	24	167	223	169	310	740	1,109
Italy—							
Titanium oxide	(a)	(a)	127	242	287	667	1,037
Norway—							
Ilmenite (c)	24,726	51,508	65,944	91,428	79,640	119,885	(a)
Rutile	75	50	25	24	26	224	(a)
Titanium white	957	930	1,429	1,813	2,527	3,247	(a)
Portugal—							
Ilmenite	5	222	144	—	297	—	(a)
Cameroon (French)—							
Rutile	1,023	1,663	451	612	754	568	705
French West Africa (Senegal)—							
Ilmenite	658	5,147	12,764	2,690	6,300	1,413	3,921
United States—							
Ores and concentrates ..	544	1,237	1,130	1,298	1,344	535	577
Ferro-titanium	664	491	455	429	160	152	157
Titanium oxide and pig- ments	11,450	14,566	18,903	23,950	26,447	29,161	35,037
Titanium compounds ..	67	(a)	(a)	(a)	(a)	(a)	(a)
Brazil—							
Ilmenite	4,921	—	—	7,775	—	(a)	(a)
Rutile	157	28	5	—	—	(a)	(a)

(a) Information not available.

(b) January to October only.

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

IMPORTS OF TITANIUM MINERALS, ETC.*

(Less Re-exports)

(Long tons)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Ilmenite	} 26,532	37,830	71,250	57,242	{ 69,400	94,652	78,113
Rutile .. .. .								6,514	6,686	9,102
Canada—							
Titanium oxide, etc. ..	9,536	10,683	12,193	17,541	18,565	(a)	26,471
Australia—							
Titanium white and oxide	(e) 819	(e) 1,450	(e) 590	(e) 734	1,634	2,780	1,689
FOREIGN COUNTRIES							
Austria—							
Titanium white	(a)	(a)	10	114	296	527	585
Belgium-Luxemburg E.U.—							
Titanium white	(a)	(a)	(a)	731	850	968	1,303
Czechoslovakia—							
Titanium white	(a)	—	20	—	(a)	(a)	(a)
France—							
Titanium oxide, etc. ..	142	316	496	140	1,123	2,100	1,651
Iceland—							
Titanium white	1	12	(a)	(a)	182	103	—
Italy—							
Ferro-titanium	—	—	1	10	63	14	52
Titanium oxide	(a)	(a)	—	—	13	300	259
Netherlands—							
Titanium oxide	(a)	91	424	2,002	1,895	(a)	(a)
Titanium white	(a)	206	603	64	93	(a)	(a)
Portugal—							
Ore	—	15	3	—	40	9	—
Sweden—							
Ore	(a)	(a)	(a)	(a)	(a)	1,482	(a)
Titanium white	(a)	(a)	(a)	(a)	1,696	2,864	(a)
Mexico—							
Titanium oxide	183	294	3.8	591	(a)	(a)	(a)
United States—							
Ilmenite (b)	186,461	215,136	(d) 273,547	216,177	289,425	193,267	168,821
Rutile (b)	2,950	3,936	(d) 6,765	7,831	2,755	3,050	9,842
Ferro-titanium	—	3	40	25	34	116	222
Titanium compounds ..	—	11	11	11	2	608	233
Brazil—							
Titanium oxide	182	103	277	412	1,151	(a)	(a)
Chile—							
Titanium oxide	147	128	(a)	(a)	(a)	(a)	(a)
Japan—							
Ilmenite	(a)	—	1,443	—	(a)	(a)	25,015

* 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 records the following amounts of Ilmenite and Rutile contained in "zirconium ores" imported from Australia (long tons) :—

	ilmenite	Rutile
1945	(c) 1,104	6,516
1946	1,239	1,300

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

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

(e) Year ended June 30 of that stated.

TUNGSTEN

PRODUCTION OF TUNGSTEN ORE AND CONCENTRATES (Long tons)

Producing Country	Estimated WO ₃ Content													
	1945	1946	1947	1948	1949	1950	1951	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES														
Great Britain—														
Concentrates	110	89	66	39	65	61	51	71	64	53	27	48	45	36
Nigeria—														
Concentrates	5	5	3	3	5	5	20	3	3	2	2	3	3	13
South West Africa—														
Wolfram	—	—	3	4	1	13	18	—	—	2	3	1	9	12
Scheelite	—	—	5	6	4	4	11	4	—	4	4	3	3	8
Tin-wolfram concentrates	—	—	—	—	90	94	59	—	—	—	—	13	13	9
Southern Rhodesia—														
Concentrates	261	48	24	70	24	58	210	188	34	17	50	17	42	151
Tanganyika—														
Wolfram	—	—	—	1	51	31	(c) 39	—	—	—	1	32	19	23
Uganda—														
Wolfram	53	79	131	164	174	144	161	36	53	88	115	121	101	109
Union of South Africa—														
Concentrates	411	126	79	140	374	86	172	269	84	53	89	247	56	111
Canada (b)—														
Concentrates	(10 cont.)	—	298	629	149	(g) 842	(a)	(7 cont.)	—	221	467	113	127	9
Burma—														
Tungsten concentrates ..	(e) 743	73	349	(f)	(f)	(f)	(f)	475	50	237	(f)	(f)	(f)	(f)
Tin-wolfram concentrates	(e) 1,109	(a)	(a)	(f)	(f)	(f)	(f)	320	(a)	(a)	(f)	(f)	(f)	(f)
Hong Kong	—	—	—	—	—	—	20	—	—	—	—	—	—	13
India—														
Concentrates	20	3	—	—	—	—	14	12	2	—	—	—	—	9
Malaya—														
Wolfram	15	9	33	46	28	13	28	10	6	23	32	20	9	20
Scheelite	10	—	11	29	30	10	18	7	—	8	20	21	7	13
Australia—														
Wolfram (d)	521	321	388	428	385	282	697	335	206	248	292	264	198	467
Scheelite	609	693	664	651	809	801	1,031	397	452	433	445	550	530	632
New Zealand—														
Scheelite	34	27	22	25	25	22	32	22	18	14	16	16	14	21

(a) Information not available.

(b) Shipments (chiefly scheelite).

(c) Exports.

(d) Includes some mixed wolfram-scheelite concentrates.

(e) Average annual production during the Japanese occupation.

(f) Included under Foreign Countries.

(g) Revised.

PRODUCTION OF TUNGSTEN ORE AND CONCENTRATES (Cont.)

Producing Country	Estimated WO ₃ Content													
	1945	1946	1947	1948	1949	1950	1951	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES														
Finland— Concentrates	—	—	—	3	37	15	6	—	—	—	2	29	11	4
France— Concentrates	171	224	354	488	634	402	697	109	169	240	335	468	280	480
Italy— Ore	13	15	19	8	3	2	6	3	4	5	4	2	1	4
Norway— Wolfram	5	—	—	—	—	—	—	3	—	—	—	—	—	—
Portugal (c)— Scheelite	—	1	17	2	9	46	123	—	1	11	1	6	31	80
Wolfram	—	260	2,640	2,576	2,368	2,358	4,337	—	169	1,699	1,674	1,539	1,532	2,820
Tin-tungsten ores	4	44	174	261	375	402	564	(a)	11	43	65	94	100	141
Spain— Concentrates	284	390	418	794	806	792	1,677	185	254	272	516	524	515	1,090
Tin-tungsten ores	(a)	(a)	(a)	(a)	(a)	110	390	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Sweden— Concentrates	563	691	506	527	678	528	553	244	289	190	187	285	214	(a)
Algeria	—	—	—	—	—	—	30	—	—	—	—	—	—	(a)
Belgian Congo— Concentrates	427	384	174	215	327	194	390	278	250	113	140	206	126	254
Tin-tungsten ore	—	—	553	391	68	439	540	—	—	137	96	4	28	35
Egypt— Concentrates	—	—	—	15	—	—	7	—	—	—	9	—	—	4
Morocco (French)— Concentrates	—	—	—	—	—	7	41	—	—	—	—	—	4	22
Mexico	(a)	(a)	(a)	(a)	73	62	633	63	44	45	80	39	40	192
United States— Concentrates	5,055	4,382	2,839	3,784	2,717	3,720	5,548	3,033	2,629	1,703	2,270	1,630	2,232	3,329
Argentina— Concentrates (b)	954	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Bolivia (exports)— Concentrates	3,498	2,351	2,909	2,240	2,261	2,422	2,675	2,275	1,252	1,556	1,467	1,502	1,467	1,605
Brazil (exports)— Concentrates	2,006	1,452	1,208	1,039	558	690	(a)	(a)	(a)	(a)	(a)	340	414	(a)
Chile— Concentrates	—	—	—	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(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% WO₃ were produced in 1947.

PRODUCTION OF TUNGSTEN ORE AND CONCENTRATES (Cont.)

Producing Country	Estimated WO ₃ Content													
	1945	1946	1947	1948	1949	1950	1951	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)														
Peru— Concentrates	472	421	566	364	470	508	(a)	309	301	342	208	268	305	(a)
Burma— Tungsten concentrates ..	(d)	(d)	(d)	356	278	269	483	(d)	(d)	(d)	231	181	175	314
Tin-wolfram concentrates	(d)	(d)	(d)	(a)	(a)	901	1,207	(d)	(d)	(d)	(a)	(a)	(a)	(a)
China— Concentrates	—	2,224	6,303	9,180	(e) 5,000	(e) 5,300	(e) 5,600	—	1,400	4,100	5,500	3,000	3,200	3,400
French Indo-China— Concentrates	7	—	—	—	—	—	—	5	—	—	—	—	—	—
Japan— Concentrates	(a)	(a)	(a)	7	17	21	150	(a)	(a)	(a)	5	12	15	105
Korea— Concentrates	1,365	(b) 1,161	(b) 2,167	(b) 1,160	(b) 1,321	(a)	(a)	820	700	1,300	735	855	(a)	(a)
Siam— Concentrates	419	182	441	449	674	776	923	272	119	287	292	438	504	600
Tin-tungsten concentrates	(a)	(a)	(a)	(a)	327	349	(c) 398	(a)	(a)	(a)	(a)	(a)	(a)	(a)

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

(a) Information not available.

(b) South Korea only.

(c) Includes some Tungsten concentrates.

(d) Included under British Countries.

(e) Estimated.

EXPORTS OF TUNGSTEN, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Tungsten ore	—	18	10	66	158	1	—
Ferro-tungsten	159	277	960	1,082	911	1,171	394
Tungsten powder, wire, etc.	(2 cwt.)	30	54	110	92	149	83
Nigeria—							
Tungsten ore	10	2	5	3	3	5	19
Southern Rhodesia—							
Tungsten ores	393	132	13	75	21	30	169
South West Africa—							
Tungsten ore	84	4	17	18	9	21	11
Tin-tungsten ore	—	—	—	—	98	99	49
Tanganyika—							
Tungsten ore	—	—	—	1	29	52	34
Uganda—							
Tungsten ore	79	84	131	104	139	189	159
Union of South Africa—							
Tungsten ore	909	169	104	127	312	253	199
Burma—							
Tungsten ore and concen- trates (b)	(a)	(d)	15	(a)	(a)	(a)	(a)
Hong Kong (re-exports)—							
Tungsten ore	(a)	656	992	3,307	3,714	2,530	192
India—							
Tungsten and tin-tung- sten ores	65	12	5	—	—	—	5
Malaya (c)—							
Wolfram	(a)	{ (a)	83	375	87	111	213
Scheelite			8	36	29	11	12
Australia—							
Wolfram	587	545	345	345	273	147	289
Scheelite	(e) 44	592	949	879	906	253	1,234
Tungsten ore and concen- trates (f)	—	—	(e) 19	(e) 99	120	578	
New Zealand—							
Scheelite	75	21	16	28	28	29	39
FOREIGN COUNTRIES							
Portugal—							
Tungsten ore	—	1,974	3,005	2,650	2,500	2,597	4,082
Spain—							
Tungsten ore	1,636	52	1,431	558	478	706	1,402
Sweden—							
Ore	—	—	10	—	—	36	141
Ferro-tungsten	5	288	1,024	704	759	758	347
Belgian Congo—							
Tungsten ores	(a)	(a)	564	252	176	598	464
Mexico—							
Tungsten ore and concen- trates	157	56	173	390	111	111	290
WO ₃ content	63	45	46	80	39	40	(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.

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

EXPORTS OF TUNGSTEN, ETC. (Cont.)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
United States—							
Ore and concentrates ..	2	35	139	370	91	6	—
Ferro-tungsten	385	81	37	560	277	149	127
Tungsten metal, wire and alloys	116	62	109	81	48	68	111
Argentina—							
Tungsten ore	934	474	(a)	81	(a)	(a)	(a)
Bolivia—							
Tungsten ore (WO ₃ content) ..	2,275	1,252	1,556	1,467	1,502	1,467	1,605
Brazil—							
Tungsten ore	2,006	1,452	1,208	1,039	558	690	(a)
Peru—							
Tungsten ore and concentrates (WO ₃ content) ..	196	412	222	139	131	393	(a)
China—							
Tungsten ore	—	4,855	6,012	12,848	(a)	(a)	(a)
French Indo-China—							
Tungsten ore	(a)	165	(a)	—	—	—	—
Korea—							
Tungsten ore (b) ..	1,500	(a)	(a)	1,800	(a)	(a)	(a)
Siam—							
Tungsten ore	(a)	(a)	(a)	(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	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Tungsten ores	3,067	2,085	7,070	7,676	5,616	5,778	4,743
Tungsten powder, wire, etc.	—	1	1	1	1	3	3
Canada—							
Tungsten ore	2	1	44	74	25	25	25
Ferro-tungsten	—	26	306	172	135	96	450
Hong Kong ()—							
Tungsten ore	(a)	799	1,707	2,402	4,810	47	—
Malaya (b)—							
Wolfram	(a)	—	—	56	15	11	84
FOREIGN COUNTRIES							
Austria—							
Tungsten ore	(a)	(a)	(a)	(a)	(a)	(a)	180
Ferro-tungsten	(a)	(a)	(a)	(a)	(a)	698	398
Germany (Federal)—							
Tungsten ore	(a)	(a)	(a)	4,475	678	1,790	2,872
Italy—							
Ferro-tungsten	—	93	74	197	252	83	77
Sweden—							
Tungsten ore	255	1,058	2,555	2,169	2,135	1,581	984
Ferro-tungsten	—	20	—	5	24	72	(a)
United States—							
Tungsten ore	4,709	8,019	5,924	7,496	5,876	12,831	5,316
WO ₃ content	2,877	4,790	4,079	4,770	3,764	8,879	3,595
Tungsten metal (WO ₃ content)	2	5	6	—	8	119	48
Ferro-tungsten	—	—	—	—	28	785	901
Japan—							
Tungsten ore	1,900	(a)	5	(a)	(a)	(a)	144

(a) Information not available.

(b) Total imports.

URANIUM MINERALS
PRODUCTION OF URANIUM MINERALS
(Cwt.)

Producing Country	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES							
Belgian Congo (exports)— Uranium minerals ..	196,189	(a)	(a)	(a)	(a)	(a)	(a)

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

(a) Information not available.

EXPORTS OF URANIUM MINERALS, ETC.
(Domestic Produce)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom— Radium compounds Grains	(£814)	(£705)	5	8	1	294	118
Canada— Radium and salts £	270,289	84,122	381,102	216,439	43,920	—	—
FOREIGN COUNTRIES							
France— Radium and radium products Lb.	64	44	—	—	—	—	—
Portugal— Uranium ore .. Cwt.	(a)	—	—	1	—	—	(a)
Belgian Congo— Uranium minerals Cwt.	196,189	(a)	(a)	(a)	(a)	(a)	(a)
United States— Radium metals (Ra content) Mgrams.	361	1,616	68	546	428	250	8,892
Mozambique— Uranium minerals Cwt.	—	—	—	—	787	—	1,838

(a) Information not available.

IMPORTS OF URANIUM MINERALS, ETC.

(Less Re-exports)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Uranium minerals Cwt.	—	—	—	—	—	4	(a)
Radium compounds Grains	138	65	520	747	621	191	401
Canada (b)—							
Radium £	89	4,062	54,990	90,694	18,300	115,182	125,378
Newfoundland (c)—							
Radium salts and compounds Mgrams.	406	—	(a)	(a)	(c)	(c)	(c)
FOREIGN COUNTRIES							
France—							
Uranium oxide .. Cwt.	10	10	4	(a)	(a)	(a)	(a)
Radium and radium products Lb.	—	496	86	4	2	—	—
Egypt—							
Radium £	—	284	73	6	2	—	(a)
United States—							
Uranium oxide and salts Cwt.	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Radium salts Mgrams.	67,342	16,596	76,681	77,018	98,032	80,969	(£437,701)
Brazil—							
Radium and radium products Mgrams.	30	1,663	834	1,265	221	(a)	(a)
Chile—							
Uranium and compounds Lb.	22	7	(a)	(a)	(a)	(a)	(a)
Radium compounds Grams.	—	50	(a)	(a)	(a)	(a)	(a)
Peru—							
Radium salts .. Lb.	—	265	(a)	(a)	(a)	(a)	(a)
Turkey—							
Uranium salts .. Lb.	15	15	8	4	—	—	—

(a) Information not available.

(b) Including Newfoundland from April 1, 1949.

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

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

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Northern Rhodesia ..	216	67	56	171	151	—	86
South West Africa ..	435	457	222	180	160	290	521
FOREIGN COUNTRIES							
Argentina	3	6	7	(a)	(a)	(a)	(a)
United States (Shipments)	1,323	568	946	(a)	(a)	(a)	(a)
Peru	661	317	428	503	(b) 414	425	(a)

Vanadium ore is also produced in Mexico.

(a) Information not available.

(b) Revised.

EXPORTS OF VANADIUM
(Domestic Produce)
 (Long tons)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom— Ferro-vanadium ..	(a)	(a)	57	131	87	209	58
Northern Rhodesia— Oxide, fused	597	22	146	159	131	213	120
South West Africa— Concentrates	1,331	900	2,753	(b) 460	(b) 639	(b) 414	(b) 794
FOREIGN COUNTRIES							
Mexico— Concentrates	(a)	(a)	—	56	163	89	(a)
Flue dust (<i>V content</i>) ..	(a)	(a)	(a)	(a)	—	61	(a)
United States— Ore and concentrates (<i>V content</i>)	51	3	6	11	10	1	1
Metal, alloys and scrap	—	—	11	1	1	2	1
Ferro-vanadium ..	76	51	80	107	87	37	55
Peru— Ore and concentrates (<i>V content</i>)	677	327	417	443	293	641	(a)

(a) Information not available.

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

IMPORTS OF VANADIUM

(Less Re-exports)

(Long tons)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Ore	1,331	914	1,006	1,550	1,006	1,270	602
Oxide	(a)	20	46	42	121	173	68
Other compounds ..	(a)	3	94	—	3	—	(940 lbs.)
FOREIGN COUNTRIES							
France—							
Oxide	222	609	70	(a)	(a)	(a)	(a)
Italy—							
Oxide	(a)	(a)	(a)	(a)	(a)	(a)	5
Ferro-vanadium ..	—	—	17	14	52	53	59
Sweden—							
Ore	8	26	159	—	3	25	20
Ferro-vanadium ..	2	1	42	114	3	21	(a)
United States—							
Ore	3,918	1,243	1,462	1,801	906	2,281	1,738
(V content)	697	353	439	534	246	650	439
Flue dust (V content) ..	12	10	32	—	—	—	—
Japan—							
Ore	(a)	(a)	21	(a)	(a)	(a)	(a)

(a) Information not available.

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

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Great Britain	3,562	—	—	—	—	35	191
Kenya	—	—	—	—	—	—	40
Nigeria	—	—	6	357	73	—	—
Northern Rhodesia (b) ..	15,576	17,568	21,600	23,940	27,180	37,668	36,259
South West Africa	—	—	(d) 5,300	11,343	12,962	11,787	14,582
Canada (b)	230,899	210,098	185,592	209,075	} 257,377	279,667	299,157
Newfoundland	50,597	48,653	39,481	38,633		—	(e) 300	1,050
India	—	—	—	—	—	202,384	194,718
Australia	150,313	171,910	182,258	190,469	181,998	—	—
TOTAL	451,000	448,200	434,200	473,800	479,600	531,800	546,030
FOREIGN COUNTRIES							
Austria	(a) 900	900	1,450	3,104	3,770	3,960	4,613
Finland (b)	1,363	1,880	1,901	2,447	2,435	2,142	3,001
France	3,282	4,770	5,730	5,935	10,735	11,986	(e) 12,000
Germany (Federal)	24,000	22,186	24,689	33,335	50,906	68,206	71,790
Greece	(a) 485	1,239	2,624	2,960	3,134	8,302	8,302
Italy	9,700	28,800	56,900	72,400	70,800	83,868	94,169
Norway	1,806	4,243	5,548	6,220	6,499	4,657	5,383
Poland	(a) 55,720	(c) 70,623	(c) 85,714	(a) 85,714	(a) 85,714	(a) 85,714	(a) 85,714
Spain (f)	29,137	36,212	39,125	43,349	51,168	61,450	74,353
Sweden	33,069	37,224	35,358	34,925	34,603	36,535	34,242
U.S.S.R. (smelter) (e) ..	85,000	90,000	105,000	145,000	175,000	210,000	240,000
Yugoslavia	(e) 10,000	22,000	34,000	35,000	43,000	37,491	38,798
Algeria	1,876	3,800	5,760	6,030	6,396	7,064	7,116
Angola	—	—	—	—	—	—	350
Belgian Congo	23,319	34,981	39,519	44,894	55,919	75,107	88,138
French Equatorial Africa ..	612	—	—	—	43	566	512
Morocco (French)	965	1,660	1,722	2,290	2,707	11,232	19,140
Tunis	755	1,529	2,540	2,342	3,263	2,886	3,460
Mexico	206,624	137,331	192,721	176,202	175,585	220,000	177,220
United States (b)	548,534	513,244	569,293	562,479	529,646	556,585	599,577
Argentina	12,927	14,492	15,974	11,996	10,748	12,498	15,230
Bolivia (exports)	20,644	18,885	14,381	20,789	17,388	19,269	30,053
Peru (b)	60,188	58,793	57,262	57,913	70,899	86,491	99,699
French Indo-China	374	—	—	—	—	—	—
Japan	22,325	20,716	29,068	32,904	43,616	51,210	63,269
TOTAL	1,100,000	1,100,000	1,300,000	1,390,000	1,450,000	1,660,000	1,780,000
WORLD'S TOTAL	1,550,000	1,550,000	1,730,000	1,864,000	1,930,000	2,192,000	2,326,030

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

METAL PRODUCTION OF ZINC

(Long tons)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom	62,028	65,517	68,296	71,983	64,115	70,290	69,734
Northern Rhodesia	15,240	17,184	21,140	22,170	22,850	22,715	22,590
Canada	163,676	165,788	159,164	175,513	183,969	182,471	195,709
Australia	83,773	76,316	69,421	81,312	80,956	83,652	77,010
TOTAL	324,717	324,805	318,021	350,978	351,890	359,128	365,043
FOREIGN COUNTRIES							
Belgium	5,453	71,266	126,323	143,881	171,335	174,525	197,713
France	8,281	30,524	42,300	53,024	59,643	70,401	73,378
Germany (Federal) (b)	(a)	14,620	20,396	40,704	85,547	120,854	138,416
Italy	1,600	15,021	23,697	25,981	26,033	37,517	46,481
Netherlands	—	1,979	9,381	13,373	15,368	19,440	22,284
Norway	9,082	29,733	34,034	41,337	40,441	42,491	40,180
Poland	(a)	55,720	70,623	85,714	(a)	(a)	(a)
Spain	17,031	17,291	19,511	20,869	19,242	20,675	20,940
Sweden	2,882	—	—	—	—	—	—
U.S.S.R. (c)	85,000	90,000	105,000	145,000	175,000	210,000	240,000
Yugoslavia	(a)	3,242	6,396	6,340	6,682	10,673	13,014
Mexico	49,196	41,319	55,853	47,560	52,651	48,294	51,777
United States (d) (e)	682,644	650,234	716,513	703,361	727,484	753,096	787,172
Argentina	1,517	1,785	2,600	1,577	2,606	(c) 7,400	(c) 8,500
Peru	1,558	921	997	680	587	1,242	896
China	323	a)	(a)	(a)	(a)	(a)	(a)
Japan	25,373	11,078	14,598	20,845	31,806	48,234	55,450
TOTAL	920,000	1,050,000	1,250,000	1,350,000	1,510,000	1,650,000	1,780,000
WORLD'S TOTAL	1,245,000	1,375,000	1,568,000	1,701,000	1,862,000	2,010,000	2,145,000

(a) Information not available.

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

(c) Estimated.

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

1945	321,825	1949	212,333
1946	268,466	1950	291,098
1947	277,494	1951	280,694
1948	289,856		

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

	1945	1946	1947	1948	1949	1950	1951
A—High grade—Special	196,644	210,879	213,637	221,737	205,871	242,570	251,403
Ordinary	171,106	161,041	170,026	175,430	184,510	171,496	156,696
B—Intermediate grade	43,845	28,834	32,868	34,725	19,208	19,260	18,512
C and D—Brass special	67,633	67,229	54,557	41,023	50,346	41,723	54,028
Selected	15,506	12,229	11,468	4,217	2,290	3,590	12,048
E—Prime Western	231,876	209,769	287,120	281,871	314,402	334,252	337,929

PRODUCTION OF ELECTROLYTIC ZINC*

(Long tons)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
Northern Rhodesia	10,531	7,176	14,753	15,114	15,372	14,923	10,676
Canada	163,676	165,788	159,164	175,513	183,969	182,471	195,709
Australia (Tasmania)	83,773	76,316	69,421	81,312	80,956	83,652	77,010
FOREIGN COUNTRIES							
Belgium	955	11,338	14,271	15,649	(a)	(a)	(a)
France	6,693	17,726	20,147	23,610	(a)	(a)	(a)
Italy	1,400	14,310	18,621	22,457	22,174	30,972	(a)
Norway	9,082	29,733	34,034	41,337	40,441	42,491	39,597
Poland	(a)	10,391	14,265	(a)	(a)	(a)	(a)
United States	241,004	251,156	263,857	278,997	291,207	305,433	300,078
Japan	(b) 12,000	(b) 5,000	(b) 7,000	(a)	19,813	(a)	(a)

*This production is already included in the Metal table and is not additional.

(a) Information not available.

(b) Estimated.

PRODUCTION OF ZINC DUST

(Long tons)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom	5,892	6,180	5,319	6,976	7,468	8,872	9,579
Northern Rhodesia	(a)	6	30	29	15	24	5
Canada (estimated)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Australia (sales)	(a)	(a)	(a)	(a)	317	(a)	(a)
FOREIGN COUNTRIES							
Belgium	157	1,486	3,376	4,232	(a)	(a)	(a)
France	156	826	137	1,093	(a)	(a)	(a)
Germany (Federal)	(a)	(a)	(a)	1,753	2,482	4,876	6,976
Poland	(a)	1,198	2,148	(a)	(a)	(a)	(a)
United States	23,104	25,512	27,323	28,765	20,336	25,823	28,299

(a) Information not available.

PRODUCTION OF ROLLED ZINC SHEETS, PLATES AND STRIPS

(Long tons)

Producing Country	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom	24,120	26,424	26,098	27,685	25,196	28,196	21,349
FOREIGN COUNTRIES							
Belgium	7,726	36,435	46,769	35,303	32,317	(a)	(a)
Poland	9,565	27,503	(c) 34,000	(c) 37,000	(a)	(a)	(a)
United States (b)	86,587	81,297	63,569	69,347	51,774	62,567	59,007
Japan	2,338	1,736	5,019	8,941	6,023	4,205	(a)

(a) Information not available.

(b) Excluding strip and ribbon zinc re-rolled from scrap originating in fabricating plants operated in connection with zinc rolling-mills, as follows:—

	Long tons		Long tons
1945	28,543	1949	8,015
1946	16,670	1950	12,358
1947	13,350	1951	10,381
1948	13,421		

(c) Estimated.

EXPORTS OF ZINC

(Domestic Produce)

(Long tons)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Ore and concentrates ..	—	—	—	6,078	1	311	15
Ingots, bars etc. ..	2,084	1,840	308	1,044	358	71	10
Sheets, plates, etc. ..	1,299	4,353	2,556	2,909	3,545	3,745	2,097
Oxide	11,817	22,845	11,216	14,174	12,444	13,490	775
Lithopone, etc. ..	7,634	7,003	3,969	4,854	8,061	7,360	4,435
Northern Rhodesia—							
Ores and concentrates ..	—	—	—	—	5,275	—	—
Ingots	13,995	17,217	19,178	23,253	22,704	22,670	22,269
South West Africa—							
Ores and concentrates (b)	(a)	(a)	(a)	9,402	24,163	31,308	23,015
Southern Rhodesia—							
Fume, dust and shavings	19	10	8	—	—	—	—
Union of South Africa—							
Bars, sheets, etc. ..	} 381	{ 347	378	481	535	(a)	(a)
Fume, dust, shavings, etc.			51	98	88	(a)	(a)
Canada (c)—							
Ore (Zn content) ..	81,946	51,965	36,228	48,417	95,254	115,680	138,030
Spelter	108,893	129,372	122,525	129,363	150,274	131,143	130,475
Dross, scrap and ashes ..	6,148	3,346	4,214	6,445	5,379	4,540	4,027
Newfoundland (d)—							
Concentrates	102,746	93,580	69,360	76,175	(d)	(d)	(d)
Hong Kong (re-exports)—							
Spelter	(a)	37	64	} 1,446	1,336	1,912	1,392
Sheets etc.	(a)	1,197	3,991				
India—							
Concentrates, etc. ..	—	—	2	10	102	3,555	1,790
Malaya (e)—							
Sheets, etc.	(a)	19	104	164	430	182	148
Australia—							
Ores and concentrates							
(Zn content)	(f) 94,957	(f) 95,144	(f) 90,114	(f) 84,309	76,675	89,819	80,500
Dust	(£.495)	(£.42,448)	122	46	58	37	2
Blocks	58,021	49,821	28,408	33,715	33,595	43,001	20,529
Scrap and shavings ..	(a)	(f) 283	(f) 617	(f) 325	245	48	87
Plates and strips ..	172	1,223	1,871	1,535	339	1,265	228
FOREIGN COUNTRIES							
Austria—							
Ore	} (a)	(a)	6,430	2,337	5,399	5,963	302
Spelter and alloys ..			2	98	—	—	262
Scrap			192	965	2,475	1,763	1,198
Zinc-white and zinc-grey			298	—	—	—	—
Lithopone			98	177	—	30	1,225
Belgium-Luxemburg E.U.—							
Ore	} (a)	(a)	32,301	41,690	41,914	35,144	45,511
Spelter				76,847	106,641	112,021	93,688
Scrap				778	3,476	1,823	73
Sheets, tubes and wire ..				12,564	8,277	12,701	20,914
Dust				(a)	2,454	5,406	4,440
Oxide				7,760	5,934	5,207	6,585
Lithopone				8,693	6,921	12,020	15,159

(a) Information not available.

(b) Excluding zinc contained in lead concentrates.

(c) Including Newfoundland from April 1, 1949.

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

(e) Including re-exports.

(f) Years ended June 30 of year stated.

EXPORTS OF ZINC (Cont.)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Czechoslovakia—							
Ore	(a)	(a)	—	(b) 2,993	(a)	(a)	(a)
Spelter, scrap and alloys		53	877	(b) 72	(a)	(a)	(a)
Sheets and plates ..		653	181	(b) 267	(a)	(a)	(a)
Zinc-white and zinc-grey		1,379	1,071	(b) 333	(a)	(a)	(a)
Lithopone		783	2,593	(b) 1,025	(a)	(a)	(a)
Denmark—							
Spelter	—	184	189	238	2	958	1,841
Scrap	390	1,099	597	759	1,240	1,520	329
Finland—							
Concentrates	—	3,486	4,029	10,785	8,168	5,505	6,815
Spelter and scrap ..	3	—	—	—	—	—	—
France—							
Ore	—	3,432	1,677	—	—	334	2
Spelter, bars and scrap	4	54	113	37	698	3,695	535
Sheets	118	853	1,808	1,835	3,915	3,734	2,720
Oxide	77	398	1,163	1,614	1,699	2,450	2,075
Lithopone, etc. .. .	3	150	153	393	1,128	1,563	1,755
Germany (Federal)—							
Ore	(a)	(a)	(a)	—	3	591	—
Spelter, dust and alloys..				—	688	10,474	9,469
Scrap				—	432	98	
Sheets and wire .. .				—	187	4,580	3,771
Zinc-white, zinc-grey and lithopone .. .				—	—	16 844		51,526
				33,295	47,019		
Greece—							
Ore	—	(a)	—	7,042	6,446	(a)	4,422
Italy—							
Ore	—	24,802	68,143	90,304	81,970	87,439	74,414
Spelter, scrap and alloyed	—	4,331	604	7,082	1,678	8,077	6,334
Sheets, wire and alloyed, etc.	—	305	96	113	49	10	—
Oxide	(a)	(a)	246	161	204	985	5,203
Lithopone	(a)	(a)	169	1,647	1,972	3,656	5,307
Netherlands—							
Spelter	(a)	3,338	4,731	785	5,179	10,098	17,134
Scrap				1,103	1,172	1,446	1,398
Sheets				758	704	2,105	927
Norway—							
Ore	2,053	5,659	7,379	640	167	1,787	(a)
Electrolytic zinc ..	7,044	23,868	23,579	29,859	28,900	32,625	28,754
Bars, sheets, wire, etc. ..	86	361	6	2	4	345	(a)
Ashes and scrap .. .	134	507	236	360	460	844	1,934
Poland—							
Spelter, dust and scrap	(a)	(a)	13,968	(a)	(a)	(a)	(a)
Sheets, tubes and wire ..	6,916	26,066	18,448	(a)	(a)	(a)	(a)
Oxide	(a)	(a)	7,994	(a)	(a)	(a)	(a)
Lithopone	(a)	(a)	638	(a)	(a)	(a)	(a)
Portugal—							
Bars	14	27	10	139	54	72	291
Zinc-white	23	18	27	33	21	21	33
Spain—							
Ore (Blende)	6,148	45,074	52,043	49,897	38,294	80,352	77,244
Bars, scrap, sheets, wire, etc.	1,049	783	1,022	917	1,285	2,057	2,927
Sweden—							
Ore	49,887	95,030	75,337	73,506	66,244	65,932	63,003
Spelter	8	63	—	10	5	2	269
Scrap	—	332	158	2,123	1,640	2,576	2,366
Zinc-white	1	4	13	—	—	1	34

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

EXPORTS OF ZINC (Cont.)

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Switzerland—							
Spelter and scrap	—	522	1,514	1,319	1,077	2,903	4,406
Zinc-white, etc.	2	7	46	89	82	66	210
Yugoslavia—							
Concentrates	(a)	(a)	(a)	(a)	(a)	33,798	14,615
Spelter	(a)	(a)	(a)	(a)	(a)	1,392	2,183
Dust	(a)	(a)	(a)	(a)	(a)	1,257	1,394
Oxide	(a)	(a)	(a)	(a)	(a)	153	240
Lithopone	(a)	(a)	(a)	(a)	(a)	690	711
Algeria—							
Ore	197	983	17,244	12,752	18,039	16,691	18,338
Spelter, plates and scrap	287	90	1,784	329	619	396	751
Oxide	2	—	13	40	—	23	9
Belgian Congo—							
Ores and concentrates	27,494	(a)	84,662	111,061	107,647	127,570	165,971
French Equatorial Africa—							
Ore	—	—	—	—	—	4,429	5,907
Morocco (French)—							
Ore	(a)	(a)	3,346	3,248	9,252	16,633	33,819
Tunis (including re-exports)							
Ore	492	2,810	6,939	5,281	5,908	5,822	(a)
Mexico—							
Ores and concentrates	318,453	228,571	285,780	238,167	254,706	223,075	257,458
Refined	38,880	41,162	38,723	42,376	37,695	47,695	41,400
Zn content (c)	200,075	128,143	184,672	170,146	160,756	203,671	(a)
Zinc oxide (metallurgical)	67	207	4,059	4,981	3,089	11,513	13,497
United States—							
Ore and dross (b)	—	79	1,253	3,167	2,612	1,017	2,759
Spelter	6,947	42,164	95,241	58,712	52,419	11,533	32,598
Scrap (b)	—	—	(a)	(a)	1,401	5,546	4,119
Sheets, strips, etc.	4,838	10,675	7,099	5,696	5,488	2,937	4,346
Dust	295	326	1,470	796	616	451	645
Oxide	6,341	9,781	17,037	7,716	4,500	2,762	7,942
Lithopone	10,336	8,617	12,190	18,763	12,910	8,354	18,280
Argentina—							
Ore	—	45,636	} (a)	(a)	(a)	(a)	(a)
Spelter, bars and sheets	—	5					
Bolivia—							
Ores (Zn content)	20,644	18,885	14,381	20,789	17,388	19,269	30,053
Chile—							
Bars	187	126	188	81	(a)	(a)	(a)
Peru—							
Ores, etc. (Zn content)	44,797	57,385	57,981	47,523	58,467	71,705	(a)
Bars (Zn Content)	1,558	921	825	680	587	1,853	(a)
French Indo-China—							
Spelter, sheets and scrap	(a)	247	48	109	56	(a)	(a)
Japan—							
Spelter	—	2,461	18,149	16,512	(a)	339	(a)
Oxide	(a)	(a)	98	(a)	(a)	171	248
Turkey—							
Ore	—	72	7,005	103	165	—	1,715

(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	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom—							
Ore and concentrates ..	153,566	165,497	130,384	156,538	197,872	196,422	179,986
Ingots, bars, etc. ..	88,288	49,394	148,720	167,733	143,043	141,914	121,879
Sheets, plates, etc. ..	4	(b) 14	13	14	227	414	1,045
Oxide	—	—	—	49	25	51	1,982
Lithopone, etc.	—	70	270	1,202	10,630	12,067	14,693
Anglo-Egyptian Sudan							
Unwrought incl. scrap ..	13	19	34	6	7	11	(a)
Kenya (c)—							
Bars, plates, sheets, etc. . .	11	13	11	20	13	18	22
Southern Rhodesia—							
Sheets, dust, etc. ..	275	352	315	289	250	249	141
South West Africa—							
Spelter, sheets, etc. ..	—	2	7	3	13	1	(a)
Tanganyika—							
Bars, sheets, etc. ..	—	—	—	14	9	8	13
Union of South Africa—							
Bars, rods, and ingots ..	9,413	9,582	9,844	13,300	11,218	14,978	19,502
Sheets and strips	47	376	689	463	392	151	(a)
Lithopone	765	536	1,136	1,318	1,744	(a)	(a)
Oxide	2,250	2,164	3,556	1,216	208	(a)	(a)
Dust and shavings	10	21	89	265	6	(a)	(a)
Canada (d)—							
Dust	21	16	155	213	325	185	198
Sheets, plates, bars, etc. . .	1,761	1,933	1,704	2,633	1,916	1,586	2,870
Zinc-white	1,043	826	1,968	1,547	977	989	594
Lithopone	9,078	7,909	11,372	13,203	7,269	7,280	6,171
Newfoundland (e)—							
Bars, sheets, etc. ..	51	47	19	22	(e)	(e)	(e)
Ceylon—							
Blocks, ingots, etc. ..	—	1	—	—	5	—	—
Sheets and plates	—	9	76	16	29	25	29
Hong Kong (total imports)—							
Spelter	(a)	108	339	} 1,097	1,656	1,835	2,841
Sheets	(a)	2,095	3,130				
India—							
Spelter	6,045	42,148	35,823	32,723	31,769	30,583	17,167
Sheets, etc.	1,076	1,335	1,586	1,722	1,902	2,826	2,842
Zinc-white	185	938	968	1,558	823	91	16
Lithopone	1,124	723	719	1,462	1,349	1,425	2,873
Malaya (total imports)—							
Sheets	(a)	254	958	538	781	1,039	1,053
Palestine—							
Spelter and sheets	104	783	(a)	(a)	(f)	(f)	(f)
Lithopone	109	163	(a)	(a)	(f)	(f)	(f)
Australia—							
Dust	—	(£A1)	—	(£A3)	—	—	9
Blocks, sheets, scrap, etc. . .	20	71	73	115	165	131	196
Oxides	608	1,102	105	20	428	(g) 401	33
Lithopone	999	1,257	1,149	2,088	4,069	2,467	3,666
New Zealand—							
Spelter, bars and sheets	134	493	1,236	943	985	1,214	1,480
Irish Republic—							
Sheets and plates	144	387	622	435	509	444	132
Zinc-white	(a)	(a)	(a)	(a)	614	740	864

(a) Information not available.

(b) Excess of re-exports.

(c) Includes Uganda up to 1948 inclusive.

(d) Includes Newfoundland from April 1, 1949.

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

(f) See "Israel" under Foreign Countries.

(g) Year ended June 30 of that stated.

IMPORTS OF ZINC (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951	
FOREIGN COUNTRIES								
Austria—								
Spelter and alloys ..	(a)	(a)	{	2,189	1,722	8,146	5,954	7,021
Sheets, bars, etc. ..				22	29	11	4	24
Zinc-white and zinc-grey				32	—	599	115	202
Lithopone				11	8	676	297	—
Belgium-Luxemburg E.U.—								
Ore	50,912	216,456	284,114	363,685	370,939	397,316	445,478	
Spelter	} 2,961	{	(a)	1,981	346	2,253	6,409	
Scrap				778	3,476	350	424	
Sheets, tubes and wire ..				17	7	156	52	
Dust				(a)	236	25	3	
Oxide				(a)	64	190	543	973
Lithopone				(a)	270	759	2,386	1,467
Bulgaria—								
Spelter, bars, sheets and scrap	201	261	} (a)	(a)	(a)	(a)	(a)	
Zinc-white	12	—						
Lithopone	24	131						
Czechoslovakia—								
Spelter and alloys	(a)	1,998	22,944	(b) 19,879	(a)	(a)	(a)	
Scrap	(a)	—	408	(b) —	(a)	(a)	(a)	
Zinc-white, zinc-grey, etc.	(a)	96	44	(b) 1,006	(a)	(a)	(a)	
Denmark—								
Spelter	2,308	4,803	5,293	5,636	7,441	6,503	7,394	
Scrap	23	10	37	127	95	34	45	
Plates and sheets	527	6,425	7,299	5,078	3,368	5,403	4,538	
Zinc-white	1,019	3,369	2,911	3,129	2,191	3,029	1,966	
Lithopone	177	710	998	2,325	1,942	3,420	3,343	
Finland (total imports)—								
Spelter	107	1,700	4,309	1,684	3,201	4,251	4,236	
Scrap	1	—	1	50	1	7	1	
Sheets	—	131	307	461	1,104	618	643	
Zinc-white	5	266	767	1,049	1,766	1,708	1,845	
France—								
Ore	55,094	67,819	92,014	56,946	75,086	151,871	127,807	
Spelter, bars and scrap ..	8,770	51,554	59,490	37,890	49,429	29,437	38,876	
Sheets	12	29	4	161	—	6	183	
Oxide	1,340	3,059	5,295	2,107	3,278	839	5,668	
Lithopone	100	356	2,046	2,021	3,142	5,028	10,920	
Germany (Federal)—								
Ores	} (a)	(a)	(a)	—	—	31,319	77,103	
Spelter, dust, scrap and alloys				10,866	12,125	6,346	10,059	
Sheets and wire				(a)	364	1	157	
Zinc-white and zinc-grey				(a)	(a)	205	52	
Lithopone				12	—	—	30	
Greece—								
Spelter, etc.	2	138	231	411	1,059	860	477	
Iceland—								
Zinc-white	284	85	(a)	(a)	81	100	10	
Lithopone	63	16	(a)	(a)	(a)	(a)	(a)	
Italy—								
Ore and ashes	(a)	(a)	1	—	—	24	—	
Spelter, matte, scrap and alloyed	—	59	2,987	1,513	3,495	4,684	2,780	
Sheets, wire, etc., and alloyed	—	—	284	295	662	102	—	
Oxide	(a)	(a)	118	346	608	775	730	
Lithopone	(a)	(a)	46+	145	—	10	30	

(a) Information not available.

(b) January to October only.

IMPORTS OF ZINC (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Netherlands—							
Ore	(a)	22,840	18,478	24,676	50,761	45,260	53,518
Spelter	}	(a)	6,460	6,951	8,042	9,017	10,809
Scrap .. .. .								101	24	63
Sheets	(a)	325	411	585	1,135	3,576	3,878
Oxide and zinc-white ..	(a)	5,682	6,675	3,983	3,696	4,334	2,584
Lithopone	(a)	—	242	134	480	1,403	484
Norway—							
Ore	18,975	72,200	81,645	61,013	74,106	70,112	88,475
Ashes and scrap	591	434	329	300	443	685	(a)
Spelter	1,489	348	76	15	—	472	(a)
Bars and sheets	14	187	81	86	96	60	(a)
Zinc-white	136	951	4,235	1,232	1,746	172	793
Lithopone	24	276	770	452	544	98	818
Poland—							
Ores and slag	—	1,945	39,030	(a)	(a)	(a)	(a)
Portugal—							
Sheets, etc.	817	1,791	1,561	1,069	1,289	1,432	676
Oxide	701	1,975	1,590	1,260	1,370	1,094	841
Lithopone	98	162	411	586	610	835	928
Spain—							
Bars and scrap	3	2,225	656	98	915	897	14
Sweden—							
Ore	—	—	—	—	—	—	(a)
Spelter	6,464	25,037	19,209	19,484	21,292	19,888	20,264
Scrap	—	258	282	59	58	90	(a)
Sheets	214	3,538	3,091	3,036	2,248	2,316	3,775
Zinc-white	6,404	10,496	11,076	7,150	5,038	8,221	(a)
Lithopone, etc.	630	3,464	3,703	5,634	4,430	6,851	(a)
Switzerland—							
Spelter and scrap	1,860	10,873	11,981	14,903	7,596	7,292	17,224
Dust	529	417	1,086	605	596	1,071	1,170
Bars, sheets, pipes and wire	235	1,664	1,921	1,432	965	1,546	2,409
Zinc-white, lithopone, etc.	1,245	5,177	5,115	4,987	4,231	7,055	7,668
Algeria—							
Spelter, sheets and scrap	11	571	929	557	831	776	696
Oxide	202	379	741	614	469	601	692
Lithopone, etc.	24	—	49	284	227	455	513
Angola—							
Bars, sheets and tubes ..	5	51	36	(a)	(a)	(a)	(a)
Egypt—							
Spelter, sheets and scrap	125	545	859	408	726	190	(a)
Zinc-white	1,447	626	572	1,366	646	(a)	(a)
Lithopone	139	63	49	154	1,042	(a)	(a)
Madagascar—							
Spelter, bars and sheets	32	65	200	65	(a)	(a)	(a)
Oxide	14	8	2	44	(a)	(a)	(a)
Morocco (French)—							
Spelter, sheets and wire	18	54	26	(a)	(a)	(a)	(a)
Lithopone	144	198	225	(a)	(a)	(a)	(a)
Morocco (Spanish)—							
Spelter and sheets	43	22	164	(a)	(a)	(a)	(a)
Lithopone	2	1	3	(a)	(a)	(a)	(a)
Mozambique—							
Spelter, bars and sheets	13	24	8	19	16	13	11
Oxide	14	33	23	30	20	25	13
Tunis—							
Sheets	76	187	396	88	(a)	(a)	(a)
Oxide	(a)	(a)	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

IMPORTS OF ZINC (Cont.)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
FOREIGN COUNTRIES (Cont.)							
Cuba (total imports)—							
Sheets	101	(a)	(a)	106	68	(a)	(a)
Mexico—							
Spelter, sheets and scrap	521	474	607	473	(a)	(a)	(a)
Zinc-white	95	104	(a)	(a)	(a)	(a)	(a)
United States—							
Ore (Zn content)	301,375	190,557	278,903	166,829	148,844	221,982	214,085
Spelter	86,133	92,915	64,411	82,631	112,111	138,665	78,557
Dross and scrap	6,517	3,650	4,490	9,172	3,332	2,530	5,895
Sheets	—	—	60	107	28	189	133
Dust	324	69	—	36	15	421	138
Oxide	—	37	105	24	213	4,549	1,591
Lithopone	—	—	—	—	11	1,073	709
Argentina—							
Spelter and bars	2,971	7,558	8,579	11,460	10,598	1,406	1,170
Sheets and plates	1,454	3,695					
Zinc-white	322	1,018	(a)	(a)	(a)	(a)	(a)
Lithopone, etc.	86	509					
Brazil (total imports)—							
Bars, sheets and plates ..	2,016	4,103	3,139	4,875	9,598	10,394	(a)
Zinc-white	4,040	4,126	7,412	3,873	3,378	(a)	(a)
Chile—							
Spelter	520	1,572	900	1,123	1,475	1,451	2,916
Bars, sheets, etc.	22	329	(a)	(a)	(a)	(a)	(a)
Zinc-white and lithopone	1,553	1,289	(a)	(a)	(a)	(a)	(a)
Colombia—							
Spelter, sheets, alloys, etc.	174	120	(a)	(a)	340	339	(a)
Zinc-white, etc.	291	331	(a)	(a)	446	593	(a)
Peru—							
Spelter, bars, sheets and powder	134	50	(a)	(a)	(a)	78	(a)
Zinc-white and lithopone	381	505	(a)	(a)	(a)	(a)	(a)
Uruguay—							
Spelter				268	418	500	(a)
Lithopone	(a)	(a)	(a)	812	297	305	(a)
Zinc-oxide				318	216	351	(a)
Venezuela—							
Spelter	4	1	3	100	(a)	(a)	(a)
Zinc-white	272	198	210	265	(a)	(a)	(a)
Lithopone	20	3	62	54	(a)	(a)	(a)
China—							
Spelter and dust	(a)	6,174	5,054	(a)	(a)	(a)	(a)
Zinc-white	(a)	2,541	2,520	(a)	(a)	(a)	(a)
Iran (total imports) (b)—							
Spelter, sheets and wire	(a)	38	177	(a)	(a)	(a)	(a)
Iraq—							
Spelter, sheets, etc.	11	(a)	(a)	(a)	(a)	(a)	(a)
Israel—							
Spelter and sheets	(c)	(c)	(c)	(c)	1,362	1,096	(a)
Lithopone	(c)	(c)	(c)	(c)	—	218	(a)
Japan—							
Ore	(a)	—	1,149	1,746	(a)	607	22,520
Spelter	5	(a)	742	(a)	(a)	1,397	12,153
Syria and Lebanon—							
Spelter	7	—	(a)	(a)	(a)	(a)	(a)
Sheets	7	143	(a)	(a)	(a)	(a)	(a)
Turkey—							
Spelter	3	218	328	113	196	38	169
Bars, tubes, and wire	207	2,355	2,154	1,239	2,396	2,237	1,341
Oxide	65	391	1,023	1,050	1,325	637	566
Lithopone	—	264	417	463	883	1,199	1,322

(a) Information not available.

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

(c) See Palestine under British Countries.

ZIRCONIUM MINERALS
PRODUCTION OF ZIRCONIUM MINERALS
(Long tons)

Producing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
India	1,020	466	(a)	(a)	(a)	(a)	(a)
Malaya—							
Zircon	(b)	—	—	—	—	—	—
Zircon-monazite	(c)	—	—	—	—	—	—
Australia—							
Zircon (d)	15,180	12,403	21,576	21,889	20,675	21,535	43,816
Zircon concentrates (e)	6,417	8,313	15,391	19,063	18,873	21,805	42,410
FOREIGN COUNTRIES							
Egypt	10	4	—	93	126	93	3
French West Africa	—	—	38	188	241	—	21
Madagascar	3	—	—	—	—	—	—
Brazil (exports)	746	4,382	3,915	3,581	2,243	950	(a)

Zircon is also produced in the United States.

(a) Information not available.

(b) Total production during Japanese occupation amounted to 741 tons.

(c) Total production during Japanese occupation amounted to 207 tons.

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

(e) Zircon content included above and not additional.

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

Exporting Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
India—							
Zircon sand	—	279	6,499	(a)	(a)	(a)	(a)
Australia—							
Zircon concentrates	(a)	7,571	8,832	12,887	17,783	19,609	38,485
Zircon-rutile	(a)	5,768	10,370	4,160	2,964	1,564	—
Zircon-rutile-ilmenite	(a)	2,458	2,063	180	—	4	—
FOREIGN COUNTRIES							
French West Africa—							
Zircon	—	—	26	70	—	69	21
Brazil	746	4,382	3,915	3,581	2,243	950	(a)
United States—							
Ores and concentrates	97	232	295	278	273	468	330

(a) Information not available.

IMPORTS OF ZIRCONIUM MINERALS

(Less Re-exports)

(Long tons)

Importing Country and Description	1945	1946	1947	1948	1949	1950	1951
BRITISH COUNTRIES							
United Kingdom— Zirconium ores	345	814	598	2,654	2,495	2,769	5,690
Canada— Zirconium oxide	(£9,240)	(£12,783)	(£15,444)	(£8,541)	(£14,725)	(£11,222)	(£7,834)
Zirconium silicate	(£4,375)	(£6,203)	(£9,271)	(£12,239)	(£20,516)	(£26,319)	(£29,950)
FOREIGN COUNTRIES							
United States— Zirconium ore (b)	23,634	15,013	27,407	14,973	18,601	15,023	24,367
Zircon (c)	15,307	10,303	20,492	12,587	1,780	(a)	(a)
Baddeleyite (d)	707	2,171	4,124	3,172	—	(a)	(a)

(a) Information not available.

(b) As recorded in official trade returns. The zircon and baddeleyite shown are *not* additional but have been separated by the U.S. Bureau of Mines from this item.

(c) Zircon content of zirconium ore, rutile and ilmenite concentrates imported from Australia.

(d) Imported from Brazil. May include some zircon.

MISCELLANEOUS MINERALS

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

Country and Description	1945	1946	1947	1948	1949	1950	1951
SELENIUM							
PRODUCTION—							
Northern Rhodesia .. Lb.	—	(b) 108,889	11,826	21,132	20,958	27,056	9,772
Canada Lb.	379,187	521,867	501,090	390,894	318,225	261,973	369,000
Australia Lb.	(a)	1,566	1,603	1,656	1,362	2,394	1,924
Finland Lb.	(a)	(a)	(a)	2,075	2,793	1,517	3,146
Sweden (exports) Lb.	750	122,246	89,098	50,521	21,305	83,776	90,390
Mexico Lb.	—	—	(a)	(a)	(a)	1,458	—
United States .. Lb.	458,486	291,103	512,648	551,156	468,502	511,325	457,004
Japan Lb.	(a)	(a)	6,548	10,053	20,163	(a)	(a)
EXPORTS—							
Canada (d) .. Lb.	442,084	723,490	673,588	447,885	343,784	542,401	370,473
Belgium-Lux. E.U. Lb.	(a)	(a)	(a)	(a)	(a)	(a)	24,251
Sweden Lb.	750	122,246	89,098	50,521	21,305	83,776	90,390
Mexico Lb.	—	—	(a)	(a)	(a)	(a)	(a)
IMPORTS—							
United Kingdom Lb.	142,816	168,004	142,932	150,350	137,791	197,873	191,656
Czechoslovakia .. Lb.	(a)	4,850	12,346	(c) 2,205	(a)	(a)	(a)
Portugal Lb.	(a)	2,020	(a)	(a)	(a)	—	(a)
Sweden Lb.	—	2,017	1,105	1,241	2,513	—	(a)
United States .. Lb.	219,215	475,881	529,175	267,118	171,581	363,312	246,552
Brazil Lb.	3,100	5,723	5,384	9,270	7,496	(a)	(a)
Peru (d) Lb.	110	617	187	(a)	(a)	(a)	(a)
TELLURIUM							
PRODUCTION—							
Canada Lb.	484	15,848	9,194	11,425	11,692	10,075	68,500 8,913
United States .. Lb.	80,750	3,765	45,248	48,806	109,021	59,713	160,933
Peru Lb.	1,020	(a)	(a)	(a)	(a)	(a)	(a)
LITHIUM MINERALS							
PRODUCTION—							
Southern Rhodesia—							
Amblygonite .. Ton	—	—	—	—	—	179	170
Lepidolite .. Ton	—	—	—	—	—	—	1,567
South West Africa—							
Amblygonite .. Ton	—	—	30	157	116	261	516
Lepidolite .. Ton	1,135	1,680	2,950	1,215	799	8,320	9,902
Petalite .. Ton	—	—	100	160	120	161	155
Uganda—							
Amblygonite .. Ton	—	—	—	—	200	260	19
Union of South Africa—							
Amblygonite .. Ton	—	—	—	—	—	13	—
Australia—							
Petalite .. Ton	—	—	—	—	5	—	—
Portugal—							
Amblygonite .. Ton	2	—	—	—	18	10	17
Lithium phyllite Ton	—	—	—	—	—	6	49
Spain	—	—	—	—	—	(a)	(a)
Sweden—							
Spodumene .. Ton	20	48	—	—	—	(a)	(a)
Mozambique—							
Lepidolite .. Ton	—	—	—	—	590	218	275
United States (e) Ton	2,184	2,737	2,179	3,465	4,320	8,309	10,700

(a) Information not available.

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

(c) January to October only.

(d) Including salts.

(e) Shipments. Including compounds.

MISCELLANEOUS MINERALS (Cont.)

Country and Description	1945	1946	1947	1948	1949	1950	1951
LITHIUM MINERALS							
<i>(Cont.)</i>							
Brazil (exports)—							
Amblygonite .. Ton	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Spodumene .. Ton	(a)	(a)	(a)	(a)	(a)	(a)	(a)
EXPORTS—							
Southern Rhodesia—							
Amblygonite .. Ton	—	—	—	—	—	187	3,312
South West Africa—							
Amblygonite .. Ton	—	—	—	—	245	85	94
Lepidolite .. Ton	1,458	2,263	2,023	1,454	1,084	6,947	7,412
Petalite .. Ton	—	—	50	163	4	230	284
Uganda—							
Amblygonite .. Ton	—	—	—	—	200	265	19
Belgian Congo—							
Spodumene .. Ton	—	—	—	—	—	—	5
Brazil—							
Amblygonite	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Spodumene	(a)	(a)	(a)	(a)	(a)	(a)	(a)
VERMICULITE							
PRODUCTION—							
Kenya Ton	10	—	(4 cwt.)	—	5	4	3
Southern Rhodesia Ton	—	—	—	16	947	700	494
Tanganyika .. Ton	—	50	—	—	—	—	—
Union of South Africa							
.. Ton	2,469	4,942	14,085	12,329	20,861	41,753	24,120
Australia .. Ton	59	204	82	151	162	120	55
India Ton	—	—	—	—	—	52	232
United States (sales) Ton	57,864	77,134	117,308	123,781	150,731	185,800	185,700
EXPORTS—							
Union of South Africa							
.. Ton	593	1,551	7,921	7,636	10,342	25,442	19,069
Southern Rhodesia							
.. Ton	—	—	—	—	206	374	234
IMPORTS—							
Canada £	7,977	3,402	32,256	31,970	52,408	86,368	103,505

(a) Information not available.

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TURKEY

Statistique Annuelle du Commerce Extérieur de la Turquie.
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