

*E. Warley*

COLONIAL GEOLOGICAL SURVEYS  
MINERAL RESOURCES DIVISION

STATISTICAL SUMMARY  
OF THE  
MINERAL INDUSTRY

PRODUCTION, EXPORTS AND IMPORTS

1948-1953

MINERAL RESOURCES DIVISION

COLONIAL GEOLOGICAL SURVEYS

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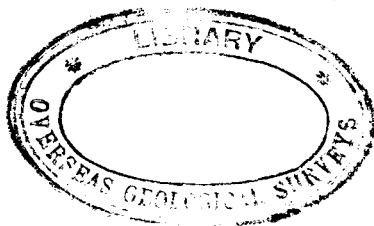
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**This publication is prepared by the Statistical Section of the Mineral Resources Division of Colonial Geological Surveys which was transferred from the Imperial Institute to the Colonial Office in April, 1949.**

**All communications should be addressed to :—**

**Mineral Resources Division,  
Colonial Geological Surveys,  
Imperial Institute Building,  
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## EXPLANATORY NOTES

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

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

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

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

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

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

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

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

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

(10) The 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) Figures for the latest year are very often preliminary and therefore subject to revision.

(12) 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	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Kenya—						
Corundum .. ..	—	—	2	—	—	—
Nyasaland—						
Corundum .. ..	—	88	184	106	46	—
Southern Rhodesia—						
Corundum .. ..	112	—	—	—	—	753
South West Africa—						
Corundum .. ..	—	—	10	—	—	—
Union of South Africa—						
Corundum .. ..	2,497	2,425	3,151	4,491	3,731	1,665
Canada—						
Corundum (shipments)	—	—	—	—	—	(a)
Grindstones .. ..	196	174	89	54	38	13
Garnet .. ..	2	—	—	—	—	(a)
India—						
Corundum .. ..	280	194	299	554	637	273
Garnet sand .. ..	—	10	(a)	(a)	(a)	(a)
Malaya—						
Corundum .. ..	—	—	—	25	—	—
Australia—						
Corundum .. ..	—	—	—	—	54	—
Garnet .. ..	9	—	5	22	70	35
New Zealand—						
Pumice .. ..	6,863	13,124	9,716	8,774	9,612	2,013
<b>FOREIGN COUNTRIES</b>						
Belgium—						
Grindstones .. ..	(a)	32	36	63	66	55
France—						
Pumice .. ..	16,800	14,800	17,700	15,000	11,280	12,000
Tripoli .. ..	226	86	(a)	(a)	(a)	(a)
Millstones .. ..	16,730	12,530	3,196	5,229	2,868	(a)
Sharpening stones ..	344	50	394	198	192	(a)
Greece—						
Emery .. ..	9,025	9,783	5,000	6,500	6,000	10,000
Pumice .. ..	7,000 cu.m.	12,000 cu.m.	19,500 cu.m.	20,000 cu.m.	12,437 cu.m.	(a)
Italy—						
Pumice .. ..	31,003	75,663	101,961	121,927	132,620	(a)
Millstones .. ..	344	295	—	148	157	(a)
Sharpening stones ..	1,912	1,845	1,412	1,781	1,417	(a)
Whetstones .. ..	305	228	335	1,030	786	(a)
Norway (exports)—						
Millstones, grindstones, etc. .. ..	2,416	2,371	(a)	(a)	(a)	(a)
Portugal—						
Tripoli .. ..	3,506	1,216	1,224	1,034	1,011	972
Spain—						
Pumice .. ..	209	968	415	1,097	654	(a)
Tripoli .. ..	6,671	7,161	3,854	10,262	7,543	6,496
Garnet .. ..	188	177	133	125	185	(a)
Sweden—						
Grindstones and whetstones .. ..	1,512	964	517	833	(a)	(a)
Egypt—						
Pumice .. ..	787	443	354	40	394	(a)
Garnet .. ..	143	85	159	1	18	(a)

\*See also Aluminium, Diamonds and Diatomaceous earth.

(a) Information not available.

PRODUCTION OF NATURAL ABRASIVES (cont.)

Producing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
Madagascar—						
Corundum .. .. .	4	7	—	—	—	—
Garnet .. .. .	131	411	510	727	465	11
Mozambique—						
Corundum .. .. .	6	—	16	—	—	1
United States (sales)—						
Emery .. .. .	4,826	4,383	5,312	10,387	9,243	9,430
Garnet .. .. .	7,178	5,873	8,307	12,545	10,170	9,393
Pumice .. .. .	542,630	639,948	642,282	669,591	(b) 533,075	(a)
Tripoli .. .. .	23,969	22,790	39,036	33,461	31,660	32,306
Grindstones .. .. .	7,072	3,991	3,960	4,954	3,537	2,231
Pulpstones .. .. .	29	25	29	20	11	—
Turkey—						
Emery .. .. .	7,737	8,771	1,399	7,247	8,110	1,117

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

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

	1948	1949	1950	1951	1952	1953
Silicon carbide .. .. .	47,229	41,427	39,965	62,752	52,926	47,235
Fused alumina .. .. .	129,320	101,071	113,324	174,441	135,791	219,310

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

	1948	1949	1950	1951	1952	1953
Silicon carbide .. .. .	56,279	60,303	58,039	89,730	81,724	55,626
Aluminium oxide .. .. .	138,368	112,327	125,314	193,151	161,049	217,979
Metallic abrasives .. .. .	131,445	93,552	128,869	147,445	140,209	143,304

(U.S. plants only).

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

(a) Information not available.

(b) Revised.



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

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Abrasives, natural ..	1,716	1,923	1,923	2,674	1,836	1,746
do. artificial ..	1,091	1,702	1,232	1,184	713	642
Grinding wheels of—						
Artificial corundum, etc. . . . .	742	970	944	1,515	1,442	1,198
Carborundum ..	693	1,375	2,034	2,208	1,372	1,050
Emery ..	275	341	279	415	265	135
Other hard abrasives	717	901	1,051	1,618	901	412
Grindstones and whetstones (b) ..	4,001	3,000	2,196	2,049	2,198	1,098
Other manufactured abrasives ..	742	411	667	1,136	714	364
Nyasaland—						
Corundum ..	—	79	184	99	46	—
Southern Rhodesia—						
Corundum ..	112	—	—	—	—	807
Union of South Africa—						
Corundum ..	3,006	1,918	2,917	4,649	3,583	1,689
Canada—						
Natural abrasives, including diatomaceous earth ..	15	7	6	19	17	19
Artificial abrasives ..	178,780	140,997	167,006	241,259	189,171	270,581
Artificial abrasive wheels, etc. ..	(£42,076)	(£25,599)	(£20,850)	(£20,770)	(£5,898)	(£4,193)
Grindstones ..	(£5,365)	(£5,649)	(£18,095)	(£24,450)	(£7,342)	(£8,202)
Cyprus—						
Pumice ..	4	(a)	(a)	(a)	(a)	(a)
India—						
Garnet sand ..	(a)	(a)	(a)	(a)	(a)	(a)
New Zealand—						
Pumice ..	1,735	1,419	1,329	1,238	791	803
<b>FOREIGN COUNTRIES</b>						
Austria—						
Emery and other natural abrasives ..	105	460	1,012	691	470	525
Grindstones, natural ..	—	—	28	2	—	1
do. artificial ..	(a)	359	389	391	447	238
Millstones ..	362	568	413	427	185	133
Artificial abrasives ..	(c)	(c)	(c)	826	1,580	1,705
Belgium-Luxemburg						
E.U.—						
Corundum, artificial ..	40	2	3	11	22	19
Millstones and grindstones, natural and artificial ..	485	478	396	567	362	390
Other abrasives ..	138	175	124	155	3	93
Denmark—						
Emery ..	9	17	16	20	31	7
Millstones and grindstones, natural ..	72	34	239	534	365	180
do. artificial ..	212	166	14	80	54	36

\*See also Aluminium, Diamonds and Diatomaceous earth.

(a) Information not available.

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

(c) Included with Emery, etc.

## EXPORTS OF ABRASIVES (cont.)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
Finland—						
Grindstones, etc. . .	433	629	316	352	149	(a)
France—						
Corundum and emery . .	146	217	254	271	249	200
Pumice . . . . .	77	51	59	47	49	32
Tripoli (c) . . . . .	(a)	(a)	(a)	(a)	(a)	(a)
Millstones and grindstones . . . . .	3,187	3,013	2,186	3,423	2,196	2,078
Whetstones . . . . .	976	1,753	1,562	105	80	56
Carborundum . . . . .	98	26	47	33	115	440
Germany (Federal)—						
Emery . . . . .	12	42	205	(b) 170	} 5,159	3,391
Carborundum, etc. . . . .	3	1,692	3,871	(b) 4,744		
Other abrasives . . . . .	1,400	1,065	3,873	(b) 4,422		
Millstones, grindstones, etc. . . . .	447	1,162	1,464	4,801	2,799	2,112
Greece—						
Emery . . . . .	5,274	5,016	8,021	9,917	7,711	5,490
Pumice . . . . .	1,980	3,881	22,474	9,999	9,690	29,853
Italy—						
Pumice . . . . .	16,328	20,880	26,781	24,465	21,937	34,129
Emery and corundum . . . . .	7	106	8	7	5	1
Tripoli . . . . .	(a)	(a)	40	87	51	116
Artificial abrasives . . . . .	113	597	100	292	268	351
Netherlands—						
Emery . . . . .	1,795	1,876	2,961	3,030	2,044	1,454
Norway—						
Emery, etc. . . . .	5	94	195	95	86	51
Millstones, grindstones, etc. . . . .	2,416	2,371	(a)	(a)	(a)	(a)
Whetstones . . . . .	7	9	21	20	56	12
Other artificial abrasives . . . . .	224	289	301	225	224	67
Sweden—						
Emery . . . . .	—	1	15	4	9	2
Other natural abrasives . . . . .	15	5	37	5	1	51
Carborundum, etc. . . . .	67	124	343	440	290	216
Millstones, grindstones, etc. . . . .	1,174	549	639	840	704	374
Switzerland—						
Carborundum, emery, etc., crude . . . . .	52	28	52	24	17	39
do. do. ground . . . . .	1,956	1,912	1,541	2,176	1,652	1,187
Grindstones . . . . .	179	12	29	45	10	2
Millstones . . . . .	—	25	4	16	—	—
Madagascar—						
Corundum . . . . .	11	—	—	—	—	—
Garnet . . . . .	125	443	559	667	380	115
Mozambique—						
Corundum . . . . .	—	—	—	32	(a)	(a)
Costa Rica—						
Millstones . . . . .	105	(a)	(a)	(a)	(a)	(a)
Mexico—						
Pumice . . . . .	11	128	3	—	4	48
Emery, etc. . . . .	—	—	—	—	—	—
Millstones, whetstones, etc. . . . .	1	—	5	—	—	—

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

(c) See under "Diatomaceous earth."

EXPORTS OF ABRASIVES (cont.)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
United States—						
Corundum .. .. .	—	164	183	177	140	213
Emery powder .. ..	124	515	508	686	682	1,013
Wheels of emery and corundum .. .. .	57	—	—	—	—	—
Grindstones .. .. .	1,289	628	459	600	353	386
Whetstones, etc. .. .	—	40	72	133	83	71
Other natural abrasives	26,901	34,154	36,466	42,019	32,117	49,849
Aluminium oxide, fused		17,822	14,250	15,185	8,915	8,454
Silicon carbide .. .		5,638	4,815	6,593	6,856	4,704
Unfused alumina .. .	21,669	93	113	79	79	232
Other crude artificial abrasives .. .. .		733	43	101	31	22
Artificial abrasive wheels	3,017	2,375	1,709	2,776	2,017	1,601
Artificial hones, whetstones, etc. .. .. .	435	839	902	1,303	974	896
Turkey—						
Emery and carborundum .. .	9,575	8,445	8,205	10,717	6,139	(a)

(a) Information not available.

**IMPORTS OF ABRASIVES\***

*(Less Re-exports)*

*(Long Tons)*

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Emery .. .. .	6,348	5,453	6,227	6,926	4,163	3,049
Garnet concentrates—						
Unground .. .. .	511	525	674	1,051	677	336
Ground .. .. .	230	197	465	252	261	202
Other natural abrasives	2,679	5,449	6,439	6,707	5,755	4,054
Aluminium oxide .. .. .	18,050	20,418	23,077	30,226	25,055	12,307
Carborundum—						
Unground .. .. .	174	142	98	10,753	11,491	3,268
Ground .. .. .	5,441	9,112	9,524			
Grinding wheels of—						
Artificial corundum, etc. . . . .	54	24	14	43	782	36
Carborundum .. .. .	12	16				
Emery .. .. .	—	—				
Other hard abrasives	112	55				
Grindstones and whetstones .. .. .	7	5	13	9	7	2
Other manufactured abrasives .. .. .	6,286	3,028	1,625	1,165	439	15
Anglo-Egyptian Sudan—						
Grindstones .. .. .	38	68	22	22	22	(a)
Kenya and Uganda—						
Grindstones, etc. .. .. .	28	33	30	28	35	34
Mauritius—						
Grindstones, etc. .. .. .	(a)	(£1,537)	(£1,115)	14	43	49
Tanganyika—						
Grindstones, wheels, etc. . . . .	13	20	14	13	16	17
Union of South Africa—						
Emery .. .. .	36	20	20	20	21	(a)
Pumice .. .. .	54	94	103	70	92	(a)
Other abrasives (£S.A.)	(£21,049)	(£15,928)	(£26,715)	(£122,594)	(a)	(a)
Abrasive wheels and discs (£S.A.) .. .. .	(£125,635)	(£147,742)	(£221,133)	(£169,727)	(a)	(a)
Grindstones, millstones, etc. (£S.A.) .. .. .	(£4,989)	(£2,385)	(£2,719)	(£6,891)	(a)	(a)
Canada (c)—						
Pumice, etc. (d) .. .. .	(£26,969)	(£28,185)	(£42,067)	(£43,714)	(£40,428)	(£59,823)
Emery, ground (d) .. .. .	(£35,367)	(£30,940)	(£35,161)	(£54,276)	(£48,874)	(£60,236)
Artificial abrasives, ground .. .. .	(£367,103)	(£396,744)	(£623,363)	(£686,134)	(£549,546)	(£638,104)
Buhrstones .. .. .	(£86)	(£460)	(£477)	(£424)	(£538)	(£356)
Emery and artificial abrasives manufactures	(£25,148)	(£29,144)	(£37,833)	(£52,812)	(£62,959)	(£78,204)
Grindstones and wheels	(£177,795)	(£213,555)	(£357,063)	(£554,959)	(£596,337)	(£739,486)
Newfoundland (b)—						
Grindstones .. .. .	(£3,393)	(b)	(b)	(b)	(b)	(b)
Whetstones, etc. .. .. .	(£344)	(b)	(b)	(b)	(b)	(b)
British West Indies—						
Jamaica—						
Natural abrasives .. .. .	(£10)	(£194)	(£345)	(£131)	(£177)	(£422)
Grindstones .. .. .	(£1,129)	(£1,081)	(£850)	(£941)	(£3,364)	(£2,756)

\* 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) Total imports.

IMPORTS OF ABRASIVES (cont.)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b> (cont.)						
<b>British West Indies</b> (cont.)—						
Trinidad and Tobago—						
Grindstones and wheels	395	16	22	25	15	21
Ceylon—						
Grindstones .. .. .	(£1,785)	(£1,814)	(£7,896)	(£6,774)	(£8,020)	(£8,935)
Cyprus—						
Grindstones and millstones .. .. .	(£4,208)	(£3,809)	(£3,041)	(£2,176)	(£1,122)	(£2,900)
Australia (c)—						
Emery, etc. .. .. .	379	349	627	(d) 455	(d) 409	(d) 152
Corundum .. .. .				26	1,097	2
Pumice (£ Aust.) .. .	(£8,561)	(£12,946)	(£8,129)	(d)(£18,026)	(d)(£11,149)	(d)(£16,734)
Grindstones, etc. .. .	90	86	91	122	167	(a)
Artificial abrasives ..	1,499	1,459	(d) 1,141	(d) 2,500	(d) 1,430	1,284
New Zealand—						
Pumice .. .. .	1	117	263	212	159	47
Corundum, emery, etc.	(a)	22	24	27	23	8
Grindstones, etc. (£N.Z.) .. .	(£14,064)	(£14,740)	(£15,746)	(£21,555)	(£19,703)	(£8,947)
Irish Republic—						
Grindstones, oilstones, etc. .. .. .	140	127	142	145	127	108
<b>FOREIGN COUNTRIES</b>						
<b>Austria—</b>						
Emery and other natural abrasives .. .. .	627	1,121	1,269	786	48	48
Artificial abrasives ..				1,172	908	703
Pumice, etc. .. .. .	53	165	202	764	204	125
Grindstones, natural ..	292	116	170	169	184	139
do. artificial .. .. .	430	262	129	137	67	56
Millstones .. .. .	58	53	91	125	78	83
<b>Belgium-Luxemburg</b>						
<b>E.U.—</b>						
Corundum, artificial ..	371	746	861	1,129	921	705
Millstones and grindstones, natural and artificial .. .. .	1,731	1,146	1,080	1,464	1,207	845
Silicon carbide .. .. .	646	1,040	617	1,150	1,399	918
Other abrasives .. .. .	1,378	1,477	4,460	7,892	5,775	12,034
<b>Czechoslovakia—</b>						
Emery .. .. .	(b) 10	(a)	(a)	(a)	(a)	(a)
Pumice .. .. .	(b) —	(a)	(a)	(a)	(a)	(a)
Carborundum .. .. .	(b) 142	(a)	(a)	(a)	(a)	(a)
Grindstones, etc., natural .. .. .	(b) 296	(a)	(a)	(a)	(a)	(a)
do. carborundum .. .	(b) 22	(a)	(a)	(a)	(a)	(a)
do. emery, etc. .. .. .	(b) 55	(a)	(a)	(a)	(a)	(a)
Millstones .. .. .	(b) 163	(a)	(a)	(a)	(a)	(a)
Other abrasives .. .. .	(b) 2	(a)	(a)	(a)	(a)	(a)
<b>Denmark—</b>						
Emery, etc. .. .. .	419	322	448	610	527	351
Pumice .. .. .	358	667	242	581	713	1,505
Carborundum .. .. .	238	301	227	310	202	276

(a) Information not available.

(b) January to October only.

(c) Years ended June 30 of that stated.

(d) Calendar year.

## IMPORTS OF ABRASIVES (cont.)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b> (cont.)						
<b>Denmark (cont.)</b>						
Millstones and grindstones, natural .. ..	191	240	415	315	148	208
do. artificial .. ..	361	344	330	543	415	344
<b>Finland (total imports)—</b>						
Emery, pumice, etc. ..	482	446	635	706	414	428
Carborundum, etc. ..	92	100	78	154	65	52
Millstones, etc. . . .	13	—	15	20	27	16
Whetstones, grindstones, etc. . . .	2,075	1,787	1,050	1,676	2,207	479
<b>France—</b>						
Corundum .. ..	314	34	5	15	18	9
Emery .. ..	2,448	820	1,948	2,733	1,714	262
Pumice .. ..	2,336	1,325	5,638	8,327	13,275	31,671
Tripoli (d) .. ..	(a)	(a)	(a)	(a)	(a)	(a)
Millstones and grindstones .. ..	184	176	151	846	548	517
Whetstones .. ..	305	329	556	172	81	130
Carborundum .. ..	946	2,105	2,016	3,012	2,233	1,015
Artificial corundum ..	951	3,000	532	1,141	754	490
<b>Germany (Federal)—</b>						
Emery .. ..	80	722	2,025	} 8,083	} 5,932	} 4,579
Pumice, etc. .. ..	(a)	4,256	6,740			
Carborundum, etc. ..	196	590	686			
Other abrasives .. ..	—	125	80			
Millstones, grindstones, etc. . . .	131	234	62	117	432	187
<b>Iceland—</b>						
Millstones, etc. . . .	(a)	18	19	38	(a)	(a)
<b>Italy—</b>						
Emery and corundum ..	1,012	1,110	1,740	910	1,117	1,748
Tripoli .. ..	(a)	(a)	(a)	23	58	19
Corundum, artificial ..	(a)	(a)	(b) 324	1,194	1,057	1,279
Artificial abrasives ..	1,474	2,042	(c) 1,257	(a)	(a)	(a)
<b>Netherlands—</b>						
Emery .. ..	3,686	1,821	4,261	4,141	2,886	1,523
Other natural abrasives	614	989	888	998	580	1,392
Millstones and grindstones, natural ..	602	328	337	432	226	229
do. artificial .. ..	724	769	767	1,091	825	822
Other artificial abrasives	251	436	591	1,130	708	693
<b>Norway—</b>						
Emery, etc. .. ..	599	782	662	876	410	284
Millstones, grindstones, etc. . . .	1,254	754	(a)	(a)	(a)	(a)
Whetstones .. ..	15	—	12	9	2	2
Other artificial abrasives	38	45	58	58	63	64
<b>Portugal—</b>						
Emery, etc. .. ..	168	223	221	339	405	213
Pumice .. ..	10	40	43	5	199	182
Millstones .. ..	182	89	136	228	198	95
<b>Spain—</b>						
Emery powder .. ..	31	161	186	15	128	(a)
Carborundum .. ..	66	96	135	109	509	(a)
<b>Sweden—</b>						
Emery .. ..	713	520	730	947	418	312
Pumice .. ..	209	532	178	208	116	138
Other natural abrasives	2,862	2,426	2,556	3,590	2,293	717

(a) Information not available.

(c) January to June only.

(b) July to December only.

(d) See under "Diatomaceous earth"

## IMPORTS OF ABRASIVES (cont.)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b> (cont.)						
<b>Sweden (cont.)—</b>						
Carborundum, etc. ..	1,165	1,565	1,784	1,728	1,484	920
Grindstones, etc. ..	1,329	1,065	1,482	2,022	1,879	1,067
Millstones .. ..	1,267	923	782	1,410	858	491
<b>Switzerland—</b>						
Emery, crude .. ..	755	690	458	816	649	232
Carborundum, emery, etc., ground .. ..	1,478	777	915	1,339	1,155	721
Millstones .. ..	47	70	54	47	73	40
Grindstones .. ..	450	326	297	338	256	258
Whetstones .. ..	25	25	16	22	15	18
<b>Yugoslavia—</b>						
Corundum, etc. ..	(a)	(a)	668	314	567	1,030
Grindstones, artificial ..	(a)	(a)	291	163	165	45
<b>Algeria—</b>						
Emery, corundum, etc.	132	9	70	93	16	3
Pumice .. ..	138	210	454	68	331	6,284
Millstones and grind- stones .. ..	424	469	378	387	326	283
<b>Egypt—</b>						
Emery, pumice, etc. ..	(b) 1,978	(b) 5,746	5,912	1,631	1,980	1,882
Millstones .. ..	(b) 104	(b) 64	1	71	19	29
Grindstones .. ..	(b) 235	(b) 174	196	207	149	94
Whetstones .. ..	(b) 44	(b) 11	12	14	10	17
<b>Madagascar—</b>						
Millstones, grindstones and whetstones ..	27	(a)	(a)	(a)	(a)	(a)
<b>Morocco (French)—</b>						
Millstones and grind- stones .. ..	76	108	59	(a)	104	(a)
<b>Tunis—</b>						
Emery and pumice ..	49	(a)	(a)	(a)	(a)	(a)
Millstones and grind- stones .. ..	50	(a)	(a)	(a)	(a)	(a)
<b>Cuba (total imports)—</b>						
Grindstones .. ..	615	326	413	1,214	(a)	(a)
<b>Mexico—</b>						
Emery and carborundum	1,418	1,328	1,324	1,252	1,322	1,256
Pumice .. ..	47	3	8	8	3	3
Millstones and grind- stones .. ..	197	228	313	435	453	450
<b>United States—</b>						
Corundum, crude ..	3,225	1,797	3,163	4,369	4,081	2,388
Emery, crude .. ..	984	1,350	1,541	2,509	(a)	(a)
Corundum and emery, ground .. ..	56	2	9	9	11	29
Pumice, crude .. ..	7,567	7,896	17,203	14,064	19,630	29,208
do. manufactured ..	696	675	877	670	427	842
Tripoli, etc. .. ..	(a)	(a)	(a)	10	1,461	332
Grindstones .. ..	274	128	265	190	174	6,412
Buhrstones, hones, etc.	39	23	20	26	21	157
Crude artificial abrasives	155,930	115,604	141,204	208,406	164,960	255,862
<b>Argentina—</b>						
Emery .. ..	344	62	231	(a)	1,508	235
Grindstones .. ..	(a)	(a)	(a)	(a)	5	—
Oil stones .. ..	(a)	(a)	(a)	(a)	78	—
<b>Brazil—</b>						
Millstones, grindstones, etc. .. ..	299	480	(a)	1,451	961	109
Other abrasives ..	157	166	(a)	706	232	158

(a) Information not available.

(b) Total imports.

## IMPORTS OF ABRASIVES (cont.)

Importing Country and Description	1948	1949	1950	1951	1952	1953
FOREIGN COUNTRIES (cont.)						
Chile—						
Grindstones, natural ..	49	149	103	29	95	120
Colombia—						
Emery and pumice ..	(a)	66	51	(a)	(a)	(a)
Millstones and grindstones ..	(a)	(a)	(a)	(a)	(a)	(a)
Peru—						
Emery and pumice ..	9	21	10	35	27	(a)
Millstones, grindstones, etc. ..	37	91	66	91	81	(a)
Venezuela—						
Emery and pumice ..	35	145	(a)	(a)	(a)	(a)
Iran—						
Emery, etc. ..	10	11	17	42	(a)	(a)
Iraq—						
Emery, pumice, etc.	3	5	46	3	(a)	(a)
Grindstones, whetstones, etc. ..	63	24	24	45	(a)	(a)
Philippine Republic—						
Pumice	(a)	(a)	6	9	(a)	(a)
Japan—						
Emery, corundum, etc.	(a)	(a)	(a)	9	248	493
Grindstones, natural, etc. ..	(a)	(a)	28	14	(a)	7,375
Other natural abrasives	(a)	(a)	(a)	10	29	—
Artificial abrasives ..	(a)	(a)	(a)	(a)	(b) 575	700
Lebanon—						
Emery ..	(d)	(d)	1	3	(a)	(a)
Pumice ..	(d)	(d)	7	29	(a)	(a)
Syria (c)—						
Emery ..	4	5	100	23	(a)	(a)
Pumice ..	15	8	15	123	(a)	(a)
Turkey—						
Emery and carborundum, crude	9	9	14	—	—	(a)
Millstones and grindstones ..	483	345	344	1,025	710	(a)
Whetstones, etc. ..	6	4	12	42	4	(a)
Grinding powder ..	45	68	72	17	1	(a)

(a) Information not available.

(b) Including natural grindstones.

(c) Including Lebanon up to 1949 inclusive.

(d) Included with Syria.



**ALUMINIUM**  
(Including Bauxite and Cryolite)

**PRODUCTION OF BAUXITE**

(Long tons)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Gold Coast (b) .. ..	130,953	145,013	114,948	129,328	74,368	115,075
Jamaica .. ..	—	—	—	—	410,720	1,154,172
British Guiana (c) .. ..	1,944,966	1,796,409	1,642,036	2,087,079	2,387,938	2,257,747
India .. ..	20,663	42,541	64,399	67,047	63,505	70,848
Malaya .. ..	—	—	—	—	21,796	152,170
Australia .. ..	5,645	5,292	3,467	5,084	7,235	4,052
<b>TOTAL .. ..</b>	<b>2,102,000</b>	<b>1,989,000</b>	<b>1,825,000</b>	<b>2,288,500</b>	<b>2,965,560</b>	<b>3,754,064</b>
<b>FOREIGN COUNTRIES</b>						
Austria .. ..	5,240	6,452	2,960	8,877	14,940	17,932
France .. ..	790,844	772,918	795,083	1,106,719	1,097,270	1,146,800
Germany (Federal) .. ..	2,100	2,400	4,100	5,243	5,851	5,163
Greece .. ..	43,539	44,813	76,225	161,072	280,413	323,057
Hungary (e) .. ..	472,000	552,000	(d) 640,000	(d) 700,000	(d) 900,000	(d) 1,000,000
Italy .. ..	150,728	103,196	150,961	171,266	282,346	267,929
Spain .. ..	6,698	11,773	11,994	10,414	11,512	(d) 11,000
U.S.S.R. (estimated) .. ..	600,000	600,000	700,000	800,000	900,000	1,000,000
Yugoslavia .. ..	134,321	340,489	197,719	446,197	568,080	455,007
French West Africa .. ..	—	10,200	13,660	—	108,017	322,957
Mozambique .. ..	1,340	2,247	4,268	4,187	2,449	3,058
United States (f) .. ..	1,457,148	1,148,792	1,334,527	1,848,676	1,667,047	1,579,739
Brazil .. ..	13,822	15,957	18,277	18,731	14,093	(a)
Dutch Guiana .. ..	2,165,481	2,095,205	2,013,058	2,657,347	3,172,833	3,224,618
Indonesia .. ..	430,907	667,428	522,754	632,172	338,325	147,190
<b>TOTAL (d) (e) .. ..</b>	<b>6,270,000</b>	<b>6,270,000</b>	<b>6,500,000</b>	<b>8,570,000</b>	<b>9,360,000</b>	<b>9,520,000</b>
<b>WORLD'S TOTAL (d) (e) ..</b>	<b>8,370,000</b>	<b>8,260,000</b>	<b>8,300,000</b>	<b>10,860,000</b>	<b>12,330,000</b>	<b>13,270,000</b>

Bauxite is also produced in Roumania and China.

(a) Information not available.

(b) Exports.

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

	1948	1949	1950	1951	1952	1953
Metallurgical .. ..	1,764,387	1,598,350	1,432,369	1,829,828	2,102,109	1,816,983
Chemical .. ..	31,754	38,906	68,385	71,151	30,843	52,090
Refractory .. ..	—	17,748	17,362	31,068	49,312	103,487
Abrasive .. ..	69,152	101,189	64,513	70,687	103,681	141,635

Exports of calcined ore are shown on page 13.

(d) Estimated.

(e) Revised.

(f) Dried bauxite equivalent.

PRODUCTION (EXPORTS) OF CRYOLITE IN GREENLAND

Year	Long tons
1948 .. .. .	26,062
1949 .. .. .	44,623
1950 .. .. .	44,046
1951 .. .. .	65,196
1952 .. .. .	72,995
1953 .. .. .	44,922

PRODUCTION OF ALUMINIUM  
(Long tons)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom (b) ..	30,028	30,345	29,468	27,725	28,006	30,916
Canada .. .. .	327,749	329,880	354,359	399,192	446,212	484,991
India .. .. .	3,368	3,492	3,596	3,848	3,566	3,759
<b>TOTAL .. .. .</b>	<b>361,145</b>	<b>363,717</b>	<b>387,423</b>	<b>430,765</b>	<b>477,784</b>	<b>519,666</b>
<b>FOREIGN COUNTRIES</b>						
Austria .. .. .	12,814	14,563	17,706	25,965	36,128	42,788
France .. .. .	62,695	53,091	59,761	89,665	104,452	111,278
Germany (Federal) (c) ..	7,421	28,593	27,398	72,963	98,887	105,251
Hungary .. .. .	9,300	14,000	(a)	26,200	30,370	(a)
Italy .. .. .	32,080	25,467	33,691	45,398	51,996	54,586
Norway .. .. .	30,551	35,113	46,313	51,283	52,014	52,330
Spain .. .. .	515	1,193	2,132	4,092	4,046	4,068
Sweden .. .. .	3,227	3,867	3,974	6,608	8,115	8,512
Switzerland .. .. .	18,660	20,668	18,900	27,000	27,000	29,000
U.S.S.R. (d) .. .. .	140,000	160,000	190,000	210,000	(f) 240,000	280,000
Yugoslavia .. .. .	1,854	2,454	1,901	2,783	2,523	2,748
United States (e) .. .. .	556,657	538,805	641,627	747,215	836,902	1,117,869
Brazil .. .. .	—	—	—	396	1,068	1,180
Formosa .. .. .	2,469	1,291	1,793	2,937	3,795	4,837
Japan .. .. .	6,855	20,883	24,377	36,329	41,986	44,775
<b>TOTAL .. .. .</b>	<b>880,000</b>	<b>920,000</b>	<b>1,080,000</b>	<b>1,350,000</b>	<b>1,540,000</b>	<b>1,900,000</b>
<b>WORLD'S TOTAL .. .</b>	<b>1,240,000</b>	<b>1,284,000</b>	<b>1,467,000</b>	<b>1,781,000</b>	<b>2,018,000</b>	<b>2,420,000</b>

(a) Information not available.

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

1948 .. .. .	80,165 long tons
1949 .. .. .	75,228 " "
1950 .. .. .	86,372 " "
1951 .. .. .	87,029 " "
1952 .. .. .	93,248 " "
1953 .. .. .	89,999 " "

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

1948 .. .. .	34,318 long tons
1949 .. .. .	35,656 " "
1950 .. .. .	47,855 " "
1951 .. .. .	45,460 " "
1952 .. .. .	41,497 " "
1953 .. .. .	38,066 " "

(d) Estimated.

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

1948 .. .. .	256,051 long tons
1949 .. .. .	161,395 " "
1950 .. .. .	217,559 " "
1951 .. .. .	261,257 " "
1952 .. .. .	271,895 " "
1953 .. .. .	329,077 " "

(f) Revised.

EXPORTS OF ALUMINIUM, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Alumina .. .. .	3,841	4,087	13,479	17,924	4,787	15,788
Ingots, etc., including alloyed .. .. .	6,543	5,689	5,429	2,053	1,757	11,357
Bars, sheets, tubes and wire .. .. .	47,067	31,817	22,170	16,807	12,705	12,974
do. alloyed .. .. .						
Foil and alloyed .. .. .	3,046	2,941	3,605	3,848	2,992	2,748
Scrap, including alloyed .. .. .	10	—	342	—	3	150
Aluminium sulphates .. .. .	38,695	37,568	38,350	33,025	31,921	29,542
Gold Coast—						
Bauxite .. .. .	130,953	145,013	114,948	129,328	74,368	115,075
Southern Rhodesia—						
Ingots, blocks and rods .. .. .	9	45	49	25	23	41
Union of South Africa—						
Aluminium sulphates .. .. .	705	574	628	922	(a)	(a)
Canada—						
Blocks, bars and ingots .. .. .	292,060	265,095	299,755	316,441	368,383	410,439
Sheets, rods, etc. .. .. .	5,507	9,443	10,219	13,218	21,087	15,515
Scrap .. .. .	20,393	3,914	4,146	3,528	3,119	12,012
Wire .. .. .	(£1,370,092)	(a)	(a)	(a)	(a)	(a)
Foil .. .. .	(a)	795	636	1,440	1,126	437
Jamaica—						
Bauxite .. .. .	—	2	—	—	239,978	1,054,978
Alumina .. .. .	—	—	—	—	225	28,731
British Guiana—						
Bauxite, dried .. .. .	1,804,014	1,682,389	1,502,142	1,905,691	2,140,472	1,870,562
do. calcined .. .. .	69,152	75,261	81,275	97,053	145,485	244,900
Hong Kong (re-exports)—						
Unwrought .. .. .	(a)	(a)	(a)	(a)	17	—
Scrap .. .. .	(a)	(a)	(a)	(a)	11	6
Plates and sheets .. .. .	(a)	(a)	(a)	(a)	4	—
Foil .. .. .	(a)	(a)	(a)	(a)	—	198
India—						
Bauxite .. .. .	448	948	344	808	4,036	2,807
Malaya (including re-exports)—						
Bauxite .. .. .	—	—	15,891	20,660	26,984	136,161
Unwrought, including alloyed .. .. .	253	266	187	413	462	2 371
Plates and sheets, alloyed .. .. .						
Bars, rods, wire, foil, alloyed .. .. .						
Aluminium sulphates .. .. .	1,706	1,386	2,164	3,137	928	731
Australia—						
Bauxite .. .. .	134	176	102	—	—	51
Figs, ingots, etc. .. .. .	194	6	—	—	489	659
Scrap .. .. .	4,360	3	102	—	31	680
Aluminium sulphates .. .. .	134	74	106	53	37	18
<b>FOREIGN COUNTRIES</b>						
Austria—						
Bauxite .. .. .	(a)	(a)	—	2,963	9,313	8,559
Alumina .. .. .	903	149	253	391	103	757
Crude, including alloys .. .. .	14,839	9,389	13,400	6,968	10,591	25,823
Scrap .. .. .	1,159	1,212	648	853	644	2,309
Sheets, rods, wire, foil, etc. .. .. .	—	7	49	3,152	2,894	4,043

(a) Information not available.

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

Exporting Country and Description	1948	1949	1950	1951	1952	1953
FOREIGN COUNTRIES						
(cont.)						
Belgium-Luxemburg						
E.U.—						
Bauxite, etc. . . . .	—	—	—	—	—	—
Alumina and hydrates . .	4	59	—	—	38	4
Crude . . . . .	1,900	3,640	3,287	356	762	521
Scrap . . . . .	666	370	733	166	124	200
Sheets, wire, etc. . . .	630	516	1,475	4,338	3,567	3,060
Aluminium sulphates . .	6,593	7,473	7,262	25,042	9,587	16,275
Czechoslovakia—						
Crude and scrap . . . .	(b) 1,255	(a)	(a)	(a)	(a)	(a)
Bars, sheets, rods and wire . . . . .	(b) 2	(a)	(a)	(a)	(a)	(a)
Denmark—						
Refined cryolite . . . .	18,639	18,697	23,962	28,063	27,279	22,828
Crude . . . . .	41	272	235	22	288	85
Scrap . . . . .	309	306	48	10	134	505
Sheets, wire and foil . .	1	37	232	383	339	305
France—						
Bauxite . . . . .	114,645	187,751	257,726	359,976	333,219	272,540
Cryolite . . . . .	1	10	—	1	20	7
Alumina . . . . .	71,821	56,407	67,320	70,034	63,620	61,703
Aluminium hydrates . . .	3,271	5,950	5,405	8,336	278	4,466
Ingots . . . . .	1,201	8,666	16,507	8,771	8,959	38,018
Scrap . . . . .	3	27	42	27	11	13
Sheets, wire, etc. . . . .	2,579	3,456	3,104	3,812	1,988	2,746
Powder . . . . .	(a)	(a)	(a)	148	384	81
Aluminium sulphates . .	4,550	4,783	7,466	11,848	4,074	9,355
Germany—						
Bauxite and cryolite . . .	3,938	—	1,059	20	49	11
Alumina . . . . .	(a)	(a)	(a)	11,586	49,389	62,478
Aluminium hydrates . . .	(a)	(a)	(a)	(d) 7,501	4,623	9,508
Crude and alloys . . . .	—	15,743	33,797	} 6,025	7,251	25,019
Scrap . . . . .	—	2,097	712			
Sheets, wire, castings etc. . . . .	19	554	8,840	10,064	2,652	1,764
Foil . . . . .	58	185	2,024	4,887	4,706	5,370
Aluminium sulphates, etc. including refined bauxite . . . . .	133	4,315	29,335	(d) 16,258	(c) 2,865	(c) 2,820
Greece—						
Bauxite . . . . .	39,762	39,772	64,117	177,312	296,269	309,447
Hungary—						
Bauxite . . . . .	(a)	(a)	(a)	(a)	(a)	(a)
Italy—						
Bauxite . . . . .	—	—	—	1	1,045	—
Alumina . . . . .	21,671	13,591	10,999	35,923	24,532	32,220
Aluminium hydrates . . .	—	2	35	2	—	1
Crude, scrap and alloyed .	18,810	5,005	3,090	6,959	4,422	3,082
Aluminium sulphates . .	209	583	624	4,585	6,921	3,562
Netherlands—						
Crude and alloys . . . .	149	587	169	218	321	537
Scrap . . . . .	3,497	1,371	2,836	1,186	2,677	2,311
Foil . . . . .	23	28	42	21	62	93
Norway—						
Alumina . . . . .	41	354	6	1	32	—
Crude . . . . .	21,541	21,585	39,714	41,220	34,501	47,811
Scrap . . . . .	521	292	562	405	426	(a)
Bars . . . . .	1,193	995	1,390	1,963	1,578	1,275

(a) Information not available.

(b) January to October only.

(c) Alum only.

(d) January to September only.

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

Exporting Country and Description	1948	1949	1950	1951	1952	1953
FOREIGN COUNTRIES						
(cont.)						
Spain—						
Powder .. .. .	(a)	200	203	84	82	(a)
Sweden—						
Alumina .. .. .	(a)	893	98	—	8	—
Crude, sheets and strips	47	7	852	534	220	212
Scrap .. .. .	84	100	292	230	795	1,873
Aluminium sulphates ..	6,915	7,976	11,254	9,037	8,381	6,562
Switzerland—						
Alumina .. .. .	265	1,720	311	—	127	37
Blocks, ingots, etc. and						
scrap .. .. .	10,617	6,360	9,412	2,208	3,365	8,324
do. (alloys) .. .. .	1,282	1,108	2,436	1,316	1,769	2,270
Bars, sheets, tubes and						
wire .. .. .	3,684	3,053	1,547	4,002	3,114	3,753
do. (alloys) .. .. .	1,094	1,313	1,561	1,859	2,304	3,015
Yugoslavia—						
Bauxite .. .. .	(a)	(a)	150,576	441,421	603,039	458,178
Alumina .. .. .	(a)	(a)	(a)	(a)	1,465	2,725
Scrap .. .. .	(a)	(a)	62	162	675	1,292
Algeria—						
Ingots .. .. .	401	337	11	72	26	—
Scrap .. .. .	584	240	249	619	218	261
French West Africa—						
Bauxite .. .. .	—	—	9,965	—	58,186	357,119
Mozambique—						
Bauxite .. .. .	748	846	3,705	3,021	2,175	(a)
Greenland—						
Cryolite .. .. .	26,062	44,623	44,046	(b) 65,196	(b) 72,995	(b) 44,922
United States—						
Bauxite, etc. .. .. .	54,113	34,902	45,209	85,565	41,329	27,907
Cryolite, natural .. .. .	637	323	1,850	1,426	74	117
do. artificial .. .. .	72					
Ingots and alloys .. .. .	1,107	7,159	591	857	1,239	2,121
Scrap .. .. .	390	354	713	5,607	917	4,090
Plates, sheets, bars, etc.	62,674	25,682	17,698	9,816	7,006	6,932
Foil .. .. .	1,765	1,305	743	142	136	229
Aluminium sulphates ..	12,805	13,131	11,615	17,737	17,628	12,833
Brazil—						
Bauxite .. .. .	11,808	9,891	11,850	8,709	98	591
Dutch Guiana—						
Bauxite .. .. .	2,131,305	2,095,205	2,050,661	2,630,109	3,102,757	3,224,617
China—						
Aluminium sulphates ..	605	(a)	(a)	(a)	(a)	(a)
Formosa—						
Ingots .. .. .	(a)	(a)	(a)	(a)	787	(a)
Indonesia—						
Bauxite .. .. .	443,105	670,339	540,853	601,824	216,575	159,918
Japan—						
Ingots, etc. .. .. .	(a)	(a)	22,152	7,144	6,597	9,465
Bars, rods, plates, tubes			4,353	6,113	6,329	2,834
and wire .. .. .						
Scrap .. .. .						
Aluminium sulphates ..	889	1,463	840	1,933		

(a) Information not available.

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

IMPORTS OF ALUMINIUM, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Bauxite .. .. .	308,328	326,603	198,607	345,447	282,626	268,764
Cryolite .. .. .	2,280	2,590	3,403	3,630	3,270	2,262
Alumina .. .. .	—	—	6	146	4	3
Ingots, etc. .. .	139,084	165,397	141,205	175,626	237,131	178,799
do. alloyed .. .						
Bars, sheets, tubes, etc., including alloyed .. .	138	30	150	1,513	2,192	108
Foil and alloyed .. .	222	146	185	921	648	228
Scrap, including alloyed .. .	3,516	1,810	836	990	1,307	526
Kenya (e)—						
Unwrought and scrap	(b) 126	(b) 204	(b) 149	(b) 56	191	59
Bars, sheets, rods, etc.	2,754	1,669	826	1,295	901	1,079
Northern Rhodesia—						
Ingots, bars and sheets	(a)	629	275	230	469	374
Southern Rhodesia—						
Ingots, bars and sheets	1,505	372	198	233	221	5
Foil .. .. .	21	13	28	31	25	31
South West Africa—						
Ingots, bars, sheets, etc.	132	138	30	34	45	(a)
Tanganyika—						
Bars, sheets, rods, etc.	691	962	627	553	420	369
Uganda—						
Bars, sheets, rods, etc.	(f)	574	433	1,222	944	1,281
Union of South Africa—						
Ingots, blocks, and pigs	434	387	1,211	1,945	2,124	2,471
Sheet, wire, foil, etc. .. .	5,629	1,883	1,125	1,515	1,267	(a)
Aluminium sulphates .. .	799	457	114	2,239	1,060	(a)
Barbados—						
Sheets .. .. .	(a)	(£6,308)	(£10,636)	(£4,216)	(£14,317)	(£345)
Canada (d)—						
Bauxite (g) .. .. .	1,793,298	1,600,572	1,662,167	2,144,428	2,191,847	2,400,415
Cryolite .. .. .	5,974	1,364	3,334	5,818	2,005	75
Alumina .. .. .	132	182	214	245	287	269
Ingots, rods, sheets, etc.	2,880	3,189	1,965	4,859	3,367	5,789
Scrap .. .. .	185	51	379	40	459	111
Leaf and foil .. .. .	(£41,056)	(£36,311)	(£43,122)	(£61,509)	(£68,501)	(£135,113)
Aluminium sulphates .. .	2,347	3,744	3,518	7,989	9,262	13,513
Newfoundland—						
Sheets, plates, foil, etc.	36	(c)	(c)	(c)	(c)	(c)
Aluminium sulphates .. .	1,589	(c)	(c)	(c)	(c)	(c)
Trinidad and Tobago—						
Aluminium sulphates .. .	95	1,128	460	833	411	147
Aden—						
Aluminium sulphates .. .	2	—	—	—	—	—
Ceylon—						
Sheets .. .. .	(a)	(a)	(a)	(a)	(a)	132
Foil .. .. .	421	433	593	475	196	352
Hong Kong (total imports)—						
Unwrought .. .. .	(a)	(a)	(a)	(a)	104	727
Scrap .. .. .	(a)	(a)	(a)	(a)	27	49
Plates, sheets, and wire	(a)	(a)	(a)	(a)	575	715
Foil .. .. .	(a)	(a)	(a)	(a)	(a)	411

(a) Information not available.

(b) Excess of re-exports.

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

(d) Including Newfoundland from April 1, 1949.

(e) Including Uganda up to 1948 inclusive.

(f) Included with Kenya.

(g) May include some alumina.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
<i>(cont.)</i>						
<b>India—</b>						
Ingots, blocks, bars, etc.	830	—	1,836	3,189	1,523	617
Sheets and circles	6,023	7,873	3,691	3,349	1,745	658
Aluminium sulphates	810	575	1,433	1,522	121	742
<b>Malaya (total imports)—</b>						
Unwrought, including alloyed						9
Plates and sheets, alloyed	2,363	2,547	3,195	6,475	4,528	1,733
Bars, rods, pipes, tubes and wire, alloyed						100
Foil, alloyed						116
Aluminium sulphates	2,228	1,628	3,451	5,383	1,180	1,564
<b>Pakistan (c)—</b>						
Ingots, blocks, bars, etc.	(a)	(a)	(a)	123	(a)	1,818
Sheets and circles	(a)	(a)	(a)	1,595	2,073	351
Aluminium sulphates	(a)	(a)	(a)	2,524	985	1,272
<b>Australia—</b>						
Bauxite	10	—	6	98	—	—
Cryolite	23	17	(b) 34	62	2,038	138
Pigs, ingots and blocks	4,726	7,185	5,916	11,389	7,899	7,525
Scrap						
Sheets, wire, rods, etc.	1,438	3,847	3,139	3,588	3,682	1,890
Pipes and tubes ( <i>£ Aust.</i> )	(£18,314)	69	422	423	228	163
Foil (b)	440	450	653	1,092	1,485	706
Aluminium sulphates	93	36	464	452	102	(b) 72
<b>New Zealand—</b>						
Ingots, etc.	(a)	248	249	173	141	458
Bars, sheets, tubes, etc.	2,262	2,952	3,504	2,514	3,850	803
do. (alloyed)						
Wire, including alloyed	(a)	15	148	49	57	49
Leaf and foil	(a)	128	207	221	357	165
Aluminium sulphates	(a)	627	665	129	635	677
<b>Irish Republic—</b>						
Ingots and sheets, etc.	596	1,101	933	621	2,110	1,105
Foil	76	123	186	207	246	464
Aluminium sulphates	1,500	1,614	2,175	3,137	2,239	2,313
<b>FOREIGN COUNTRIES</b>						
<b>Austria—</b>						
Bauxite	(a)	2,933	4,972	7,719	5,870	1,011
Cryolite	475	1,434	2,005	1,800	1,983	1,787
Alumina	23,309	71,855	77,934	86,767	124,571	(d) 80,601
Aluminium hydrates	28,610	33	1,067	1,585	1,570	2,382
Crude, scrap and alloys	50	66	13	45	86	80
Sheets, rods, wires, etc.	518	889	1,178	1,272	263	11
Foil	—	—	—	—	—	—
Aluminium sulphates	2,662	4,656	2,339	133	60	90
<b>Belgium-Luxemburg</b>						
<b>E.U.—</b>						
Bauxite	1,922	574	890	2,192	1,514	1,448
Alumina	4,519	522	124	1,245	88	149
Aluminium hydrates						
Crude	5,392	7,448	8,545	14,148	13,048	12,309
Scrap	1,215	847	2,028	852	685	560
Bars, sheets, wire, foil, etc.	1,350	1,463	1,646	1,753	717	1,110
Aluminium sulphates	240	755	1,174	1,158	1,011	901

(a) Information not available.

(b) Years ended June 30 of that stated.

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

(d) Calcined only

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Czechoslovakia—</b>						
Bauxite .. .. .	(b) 5,586	(a)	(a)	(a)	(a)	(a)
Cryolite .. .. .	(b) 138	(a)	(a)	(a)	(a)	(a)
Alumina .. .. .	(b) 1,403	(a)	(a)	(a)	(a)	(a)
Crude and scrap ..	(b) 10,876	(a)	(a)	(a)	(a)	(a)
Aluminium sulphates ..	(b) 165	(a)	(a)	(a)	(a)	(a)
<b>Denmark—</b>						
Crude cryolite .. ..	24,013	27,153	25,484	30,664	40,029	27,602
Crude .. .. .	2,527	2,975	3,063	3,138	3,565	2,937
Scrap .. .. .	208	27	155	62	261	228
Bars, sheets, plates and wire .. .. .	1,383	1,412	1,914	3,042	1,933	1,164
Leaf .. .. .	256	145	305	405	388	479
Aluminium sulphates ..	2,992	2,596	3,304	3,494	2,706	2,794
<b>Finland (total imports)—</b>						
Alumina .. .. .	28	24	25	17	27	58
Crude .. .. .	508	522	630	1,579	1,485	1,606
Bars and sheets .. ..	1,700	1,446	1,358	2,110	2,310	2,422
Aluminium sulphates ..	6,662	7,195	8,154	16,003	8,326	11,150
<b>France—</b>						
Bauxite .. .. .	—	94	69	89	2,494	3,623
Cryolite .. .. .	3,008	787	1,243	1,679	2,902	1,768
Alumina .. .. .	213	—	50	96	107	2
Aluminium hydrates ..	—	63	1	77	12	27
Ingots .. .. .	25,389	5,268	786	1,438	3,721	345
Scrap .. .. .	3,080	500	267	934	700	115
Sheets, bars and wire ..	10	4	13	113	194	111
Aluminium sulphates ..	10	10	521	12	5	—
<b>Germany (Federal)—</b>						
Bauxite .. .. .	87,812	96,375	210,779	610,212	1,020,673	867,328
Cryolite .. .. .	(a)	(a)	(a)	(a)	5,199	2,362
Crude and alloys .. ..	15,891	15,500	4,973	11,364	9,537	22,066
Scrap .. .. .	1,109	2,099	1,074			
Sheets, wire, castings, etc. .. .. .	696	12	39	308	47	37
Aluminium sulphates, etc. including refined bauxite .. .. .	—	29	13	(a)	182	—
<b>Greece—</b>						
Aluminium .. .. .	798	962	2,581	1,268	1,171	651
Foil .. .. .	288	410	515	147	63	116
Aluminium sulphates ..	1,218	329	166	55	3	295
<b>Iceland—</b>						
Aluminium sulphates ..	(a)	5	3	1	(a)	(a)
<b>Italy—</b>						
Bauxite .. .. .	118,234	83,212	81,246	86,776	192,313	93,922
Cryolite .. .. .	(a)	(a)	(c) 614	2,070	2,851	2,505
Alumina .. .. .	—	96	21	27	11	46
Crude, scrap and alloys ..	8,880	7,241	19,487	6,497	6,415	15,419
Aluminium sulphates ..	—	39	490	59	74	330
<b>Netherlands—</b>						
Bauxite .. .. .	295	297	298	266	443	104
Cryolite .. .. .	(a)	(a)	430	420	108	81
Crude and alloys .. ..	9,522	3,925	4,331	5,781	6,665	6,114
Foil .. .. .	497	378	1,203	1,139	756	1,116
Aluminium sulphates ..	6,182	7,191	8,376	9,355	7,219	8,958
<b>Norway—</b>						
Bauxite .. .. .	39,238	24,087	36,570	19,832	40,747	26,239
Cryolite .. .. .	2,605	2,578	3,177	2,928	5,491	5,371

(a) Information not available.  
 (c) July to December only.

(b) January to October.



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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Norway (cont.)—</b>						
Alumina .. .. .	45,184	64,216	79,732	74,462	71,359	76,670
Crude .. .. .	238	472	998	1,667	1,561	2,250
Bars, sheets, etc. ..	611	692	434	874	1,210	612
Aluminium sulphates ..	5,981	6,942	7,707	8,367	7,017	6,369
<b>Poland—</b>						
Bauxite .. .. .	(a)	(a)	(a)	(a)	(a)	(a)
Crude, scrap, sheets and wire .. .. .	(a)	(a)	(a)	(a)	(a)	(a)
<b>Portugal—</b>						
Cryolite .. .. .	33	19	28	36	—	8
Powder .. .. .	74	96	74	104	107	104
Ingots, sheets and wire	807	1,204	1,620	1,245	1,242	1,294
Aluminium sulphates ..	673	501	835	993	648	916
<b>Spain—</b>						
Bauxite .. .. .	—	—	—	—	—	5,759
Alumina .. .. .	2,370	1,931	4,854	8,693	10,711	8,728
Ingots and scrap .. ..	2,106	2,786	1,634	1,449	864	2,720
Sheets, tubes and wire ..	14	26	18	257	184	(a)
Powder .. .. .	—	322	564	1,873	3,441	(a)
<b>Sweden—</b>						
Bauxite .. .. .	19,785	17,357	9,299	7,240	8,690	16,597
Cryolite (including artificial) .. .. .	313	713	901	735	923	769
Alumina .. .. .	6,925	7,506	12,454	21,012	13,718	17,572
Crude .. .. .	13,350	13,149	8,228	11,503	14,880	14,448
Scrap .. .. .	1,315	720	428	333	257	216
Sheets, tubes and wire	4,768	3,067	1,582	3,677	3,651	1,970
Aluminium sulphates ..	167	637	113	772	2,807	66
<b>Switzerland—</b>						
Alumina, etc. .. .. .	45,327	46,844	40,118	54,679	60,242	54,966
Blocks, ingots, etc., and scrap .. .. .	6,921	8,918	2,702	5,039	4,870	3,306
do. (alloyed) .. .. .	235	39	87	159	95	73
Bars, sheets, tubes and wire .. .. .	276	6	116	344	210	95
do. (alloyed) .. .. .	164	9	45	61	96	24
Aluminium sulphates ..	243	134	401	273	178	136
<b>Yugoslavia—</b>						
Crude .. .. .	(a)	(a)	64	—	71	(a)
Sheets, tubes, wire, etc.	(a)	(a)	1,071	598	1,476	262
<b>Algeria—</b>						
Bauxite .. .. .	424	199	22	521	2,980	6,889
Ingots, sheets, wire, etc.	170	284	824	856	446	610
Aluminium sulphates ..	401	148	368	330	387	731
<b>Belgian Congo—</b>						
Ingots, bars, etc. ..	(a)	(a)	965	1,362	(a)	(a)
Aluminium sulphates ..	(a)	(a)	405	1,075	1,319	1,064
<b>Egypt—</b>						
Crude and scrap .. ..	(b) 8,363	(b) 1,450	(b) 94	5	45	12
Bars, sheets, tubes and wire .. .. .	340	411	427	536	581	732
Foil .. .. .	294	211	172	531	168	134
Aluminium sulphates ..	8,142	5,609	6,447	12,870	7,947	209
<b>Madagascar—</b>						
Aluminium sulphates ..	27	(a)	(a)	(a)	(a)	(a)
<b>Mozambique—</b>						
Bars, sheets, wire ..	210	222	155	52	35	(a)

(a) Information not available.

(b) Excess of re-exports.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b> (cont.)						
Tunis—						
Ingots and scrap ..	9	(a)	(a)	(a)	(a)	(a)
Aluminium sulphates ..	60	(a)	(a)	(a)	(a)	(a)
Costa Rica—						
Bars, sheets, foil, etc. ..	207	89	(a)	(a)	(a)	(a)
Cuba (total imports)—						
Ingots and bars ..	420	238	392	352	(a)	(a)
Aluminium sulphates ..	1,509	1,522	2,161	4,757	(a)	(a)
Guatemala—						
Aluminium sulphates ..	202	639	1,472	856	547	(a)
Mexico—						
Alumina .. .. .	635	705	1,275	1,334	1,937	1,257
Ingots .. .. .	1,031	2,350	2,550	3,308	1,974	4,969
Bars, sheets and wire ..	3,178	1,848	2,272	3,025	1,595	1,443
Foil .. .. .	133	106	89	100	28	61
United States—						
Bauxite, crude .. .. .	2,488,915	2,688,164	2,476,686	2,829,929	3,508,146	4,388,623
Refined bauxite .. .. .	6	157	194	18,642	29,212	91,606
Cryolite .. .. .	2,101	18,309	15,298	34,688	34,262	26,301
Crude and alloys .. .. .	74,254	69,056	157,838	109,289	114,494	268,685
Scrap .. .. .	64,055	35,822	60,678	17,865	6,248	23,769
Sheets, bars, etc. .. .. .	5,344	7,021	9,781	17,324	13,846	28,510
Foil (b) .. .. .	16	176	265	724	848	812
Aluminium sulphates ..	4,962	1,313	2,763	4,627	6,588	1,801
Argentina—						
Bauxite .. .. .	(a)	(a)	(a)	(a)	12,220	—
Ingots, sheets and wire ..	12,430	7,064	12,717	5,541	2,543	2,774
Aluminium sulphates ..	(a)	(a)	(a)	(a)	715	75
Brazil (total imports)—						
Cryolite .. .. .	148	107	(a)	805	246	105
Ingots .. .. .	} 6,667	} 9,001	} 6,739	10,719	5,827	} 1,083
Bars, sheets and wire ..				3,707	3,627	
Scrap .. .. .				(a)	(a)	
Aluminium sulphates ..				677	328	
Aluminium sulphates ..	1,514	1,968	3,184	6,788	4,691	(a)
Chile—						
Bars and sheets .. .. .	533	953	542	421	408	360
Colombia—						
Ingots, bars, sheets, etc. ..	(a)	(a)	(a)	(a)	(a)	(a)
Aluminium sulphates ..	(a)	2,775	4,647	(a)	(a)	(a)
Ecuador—						
Sheets, etc. .. .. .	206	83	122	(a)	(a)	(a)
Aluminium sulphates ..	7	21	37	(a)	(a)	(a)
Peru—						
Ingots, scrap and alloys ..	—	5	3	10	2	(a)
Aluminium sulphates ..	1,117	952	905	1,439	1,486	(a)
Uruguay—						
Bauxite .. .. .	—	1,998	—	984	(a)	(a)
Ingots, sheets, etc. ..	810	320	1,669	2,815	(a)	(a)
Aluminium sulphates ..	3,866	2,467	3,184	3,960	(a)	(a)
Venezuela—						
Crude .. .. .	42	28	(a)	(a)	(a)	(a)
Aluminium sulphates ..	1,236	1,487	894	1,845	(a)	(a)
China—						
Sheets and wire .. .. .	2,153	(a)	(a)	(a)	(a)	(a)
Foil, including inter- leaved with paper .. .. .	1,565	(a)	(a)	(a)	(a)	(a)
Formosa—						
Bauxite .. .. .	(a)	(a)	(a)	(a)	22,706	(a)

(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	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b> (cont.)						
Iran (b)—						
Ingots, sheets, scrap, etc.	(a)	(a)	(a)	251	(a)	(a)
Aluminium sulphates ..	(a)	(a)	(a)	9	(a)	(a)
Iraq—						
Bars, sheets, wire, etc. . .	635	405	532	442	(a)	(a)
Aluminium sulphates ..	341	388	858	562	(a)	(a)
Israel—						
Ingots and sheets ..	(a)	2,777	6,832	(a)	(a)	(a)
Foil .. .. .	(a)	69	81	(a)	(a)	(a)
Japan—						
Bauxite .. .. .	94,200	86,594	106,515	329,095	112,864	243,450
Ingots, blocks, etc. ..	(a)	(a)	—	—	—	727
Scrap .. .. .	(a)	(a)	1,116	394	246	3,965
Philippine Republic—						
Foil .. .. .	(a)	(a)	638	1,102	(a)	(a)
Aluminium sulphates ..	(a)	(a)	1,402	295	(a)	(a)
Syria and Lebanon—						
Aluminium sulphates ..	7	156	(a)	(a)	(a)	(a)
Turkey—						
Bars, sheets, wire and alloys .. .	243	173	275	1,490	601	(a)
Aluminium sulphates ..	1,188	1,215	1,057	1,981	2,017	(a)

(a) Information not available.

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

## ANTIMONY

### PRODUCTION OF ANTIMONY ORE

(In terms of metal)

(Long tons)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Southern Rhodesia ..	10	42	25	78	131	30
Union of South Africa ..	4,040	4,290	8,179	15,607	7,097	2,687
Canada (b) .. .. .	—	—	—	—	—	—
Sarawak .. .. .	3	1	2	—	—	—
Australia (d) .. ..	187	195	226	413	239	214
New Zealand .. ..	(e) 5	(e) 2	—	—	(e) 6	(e) 12
<b>FOREIGN COUNTRIES</b>						
Austria .. .. .	265	371	402	490	383	485
Czechoslovakia (f) ..	4,000	(a) 333	2,000	(a) 601	(a) 544	(a) 300
France .. .. .	271	333	406	601	544	300
Greece (e) .. .. .	—	90	600	680	330	600
Italy .. .. .	550	495	661	781	767	394
Portugal .. .. .	40	21	15	19	139	1
Spain .. .. .	235	270	210	174	272	259
Yugoslavia .. .. .	1,949	2,745	3,154	1,942	2,202	(e) 1,810
Algeria .. .. .	840	1,376	1,230	1,440	1,299	1,783
Morocco (French) ..	443	611	695	942	827	57
Morocco (Spanish) ..	118	153	284	201	407	292
Honduras .. .. .	10	(a) 10	(a) 10	(a) 10	—	—
Mexico .. .. .	7,264	5,662	5,776	6,717	5,444	3,628
United States (g) ..	5,794	1,461	2,229	3,100	1,929	330
Bolivia (exports) ..	12,066	10,113	8,630	11,629	9,651	5,693
Peru .. .. .	1,610	728	2,238	2,575	2,116	(e) 1,700
Burma (e) .. .. .	119	70	6	200	37	(a) 37
China (f) .. .. .	3,200	4,000	6,000	8,000	8,000	8,000
Japan .. .. .	133	184	158	220	206	316
Siam .. .. .	105	229	85	64	69	45
Turkey .. .. .	650	570	1,585	2,664	1,138	849
<b>TOTAL* .. .. .</b>	<b>43,800</b>	<b>37,000</b>	<b>44,800</b>	<b>61,500</b>	<b>45,200</b>	<b>32,000</b>

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

(a) Information not available.

(b) The following figures represent the antimony content of antimonial lead (long tons): 1948—138; 1949—71; 1950—287; 1951—2,992 (including antimony in flue dust produced in previous years); 1952—1,041; 1953—683.

(c) Revised.

(d) In addition the antimony content of antimonial slag obtained as a by-product of lead refining, was as follows (long tons): 1948—388; 1949—265; 1950—288; 1951—333; 1952—502; 1953—

(e) Estimated.

(f) United States Bureau of Mines' estimate.

(g) Secondary metal was recovered as follows (long tons): 1948—19,279; 1949—16,126; 1950—19,520; 1951—21,378; 1952—20,615; 1953—19,600.

EXPORTS OF ANTIMONY, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Regulus and refined ..	660	807	1,595	1,220	1,243	1,049
Southern Rhodesia—						
Ore .. .. .	5	76	87	164	89	28
Union of South Africa—						
Ore .. .. .	6,475	6,975	12,009	22,356	9,381	7,786
Canada—						
Antimonial lead						
<i>(Sb content)</i>	370	1	256	204	368	167
Hong Kong (re-exports)—						
Crude and regulus ..	1,435	1,491	1,816	7	—	1
Sarawak—						
Ore .. .. .	2	2	5	—	—	—
Australia—						
Ore and concentrates (b)	464	59	53	(d) —	(d) 36	(d) 139
<b>FOREIGN COUNTRIES</b>						
Austria—						
Ore .. .. .	365	496	558	307	406	709
Belgium-Luxemburg						
E.U.—						
Regulus .. .. .	1,714	1,419	2,394	2,321	1,068	(a)
Oxide .. .. .	(a)	257	637	759	418	683
Czechoslovakia—						
Regulus .. .. .	(c) 989	(a)	(a)	(a)	(a)	(a)
Denmark—						
Regulus .. .. .	13	10	10	—	—	—
France—						
Ore .. .. .	21	5	136	8	3	11
Crude and regulus ..	139	48	238	433	131	722
Oxide .. .. .	3	18	53	214	4	37
Germany (Federal)—						
Ore, including arsenical						
ores .. .. .	15	20	232	(a)	(a)	(a)
Regulus, scrap, etc.	—	—	10	—	—	2
Oxide .. .. .	—	14	193	333	20	151
Greece—						
Ore .. .. .	(a)	(a)	(a)	59	196	(a)
Italy—						
Regulus .. .. .	152	99	—	173	—	—
Netherlands—						
Regulus and scrap ..	24	6	6	3	2	31
Portugal—						
Ore .. .. .	69	59	21	24	36	—
Spain—						
Regulus .. .. .	—	—	46	59	—	(a)
Sweden—						
Crude .. .. .	16	28	29	33	25	42
Regulus .. .. .	3	2	6	—	8	—
Yugoslavia—						
Regulus .. .. .	1,277	1,502	1,630	1,097	1,101	1,214
Waste .. .. .	(a)	(a)	—	1,798	1,033	(a)

(a) Information not available.

(b) Years ended June 30 of that stated.

(c) January to October only.

(d) Calendar year.

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

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b> (cont.)						
Algeria—						
Ore .. .. .	1,445	3,116	2,965	3,030	3,431	5,895
Morocco (French)—						
Ore .. .. .	805	794	1,279	1,831	883	195
Regulus .. .. .	—	—	(a)	(a)	22	—
Morocco (Spanish)—						
Ore .. .. .	534	295	694	607	239	(a)
Honduras—						
Ore (Sb content) .. .. .	10	(a)	(a)	(a)	(a)	(a)
Mexico—						
Ore .. .. .	26,865	9,308	9,381	13,986	8,712	7,184
Concentrates .. .. .	245	47	—	96	—	—
Regulus .. .. .	79	739	1,274	1,067	953	837
Sb content (b) .. .. .	6,462	4,041	3,439	4,733	3,328	2,499
United States—						
Ore .. .. .	61	31	6	5	22	(a)
Metal and alloys .. .. .	230	402	132	145	122	23
Compounds .. .. .	(a)	199	164	311	191	106
Bolivia—						
Ore (Sb content) .. .. .	12,066	10,113	8,630	11,629	9,651	5,693
Peru—						
Ore and metal (Sb content) .. .. .	1,335	676	992	1,223	466	(a)
China—						
Crude .. .. .	376	(a)	(a)	(a)	(a)	(a)
Regulus .. .. .	4,249	(a)	(a)	(a)	(a)	(a)
Oxide .. .. .	(a)	(a)	(a)	(a)	(a)	(a)
Japan—						
Regulus (Sb content) .. .. .	(a)	(a)	2	(a)	(a)	(c) 17
Siam—						
Ore .. .. .	(a)	342	273	(a)	(a)	(a)
Turkey—						
Ore .. .. .	1,497	268	1,434	1,589	400	(a)
Regulus .. .. .	(a)	171	95	248	—	(a)

(a) Information not available.

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

(c) Gross weight.

IMPORTS OF ANTIMONY, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Ore and concentrates (d)	14,791	11,694	14,172	25,744	17,541	7,495
Refined and regulus .. (b)	1	5	(a)	(a)	(a)	(a)
Southern Rhodesia—						
Refined and regulus ..	5	6	14	11	13	14
Union of South Africa—						
Refined and regulus ..	116	101	176	373	64	(a)
Canada—						
Regulus .. .. .	488	1,153	1,434	608	769	772
Oxide .. .. .	(a)	(a)	(a)	45	77	58
Hong Kong (total imports)—						
Ore .. .. .	2,142	1,954	168	—	—	—
Crude and regulus ..						
Australia—						
Concentrates .. ..	1,062	551	709	1,054	510	599
Crude and regulus ..	1	11	339	61	14	15
Sulphide .. .. .	—	—	—	—	—	—
New Zealand—						
Regulus .. .. .	167	86	109	135	58	57
Oxide .. .. .	(a)	62	77	98	94	53
<b>FOREIGN COUNTRIES</b>						
Austria—						
Regulus .. .. .	70	204	129	44	97	137
Belgium-Luxemburg						
E.U.—						
Regulus .. .. .	35	16	27	80	13	12
Denmark—						
Regulus .. .. .	231	132	406	174	120	32
France—						
Ore .. .. .	3,004	3,017	2,851	3,361	4,482	3,502
Crude and regulus ..	211	65	259	389	300	2
Oxide and sulphide ..	11	11	28	32	16	13
Germany (Federal)—						
Ore and matte .. ..	654	490	1,197	(e) 1,048	(a)	(a)
Regulus and scrap ..	949	679	458	1,236	260	1,054
Oxide, etc. .. .. .	16	19	236	184	97	68
Italy—						
Ore .. .. .	(a)	(a)	45	89	2	6
Regulus .. .. .	38	51	246	24	77	252
Oxide .. .. .	12	51	339	57	151	308
Netherlands—						
Regulus and scrap ..	332	(c) 533	(c) 448	313	102	354
Oxide .. .. .	(a)	(a)	494	500	167	351
Norway—						
Regulus .. .. .	136	22	139	88	29	100
Portugal—						
Crude and alloys ..	25	8	23	16	31	27
Oxide .. .. .	29	15	12	6	5	4
Sulphide .. .. .	1	—	4	—	—	—
Spain—						
Regulus .. .. .	—	—	—	25	—	(a)
Sulphide .. .. .	7	2	6	1	—	(a)
Sweden—						
Crude .. .. .	63	50	95	170	15	91
Regulus .. .. .	366	184	327	315	147	209

(a) Information not available.

(b) Excess of re-exports.

(c) Scrap only.

(d) Including crude.

(e) January to September only.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
Switzerland—						
Regulus .. ..	249	169	263	290	108	152
Algeria—						
Regulus .. ..	74	6	3	17	23	20
Tunis—						
Regulus and sulphide ..	13	(a)	(a)	(a)	(a)	(a)
Mexico—						
Oxide and sulphide ..	3	6	4	8	1	11
United States—						
Ore ( <i>Sb content</i> ) ..	12,083	6,673	8,717	10,629	7,094	6,944
Regulus, crude, etc. ..	3,312	1,727	4,153	1,992	3,016	2,347
Oxide .. ..	—	50	1,035	1,821	1,577	1,157
Argentina—						
Ore .. ..	(a)	(a)	(a)	(a)	59	241
Regulus and crude ..	(a)	(a)	(a)	(a)	871	—
Brazil—						
Regulus .. ..	43	124	(a)	280	107	133
Oxide .. ..	51	112	(a)	158	52	(a)
Sulphide .. ..	76	68	(a)	229	128	(a)
Chile—						
Regulus .. ..	53	(a)	(a)	(a)	(a)	(a)
Peru—						
Regulus and sulphides	2	6	1	9	2	(a)
Uruguay—						
Regulus .. ..	1	12	10	11	(a)	(a)
Oxide .. ..	21	4	10	6	(a)	(a)
Japan—						
Ore and concentrates ..	(a)	(a)	169	1,698	452	2,642
Regulus .. ..	(a)	(a)	238	10	10	6
Turkey—						
Regulus .. ..	10	4	—	—	—	(a)

(a) Information not available.



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

Producing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Southern Rhodesia—						
White arsenic .. ..	279	146	112	75	507	371
Union of South Africa—						
White arsenic .. ..	9	—	—	—	—	—
Canada—						
White arsenic (b) ..	519	235	354	1,051	763	636
Australia—						
White arsenic .. ..	512	(c) 253	(c) 200	(c) 120	(c) 120	—
New Zealand—						
White arsenic .. ..	8	19	10	—	—	—
<b>FOREIGN COUNTRIES</b>						
Belgium (exports)—						
White arsenic .. ..	149	519	1,879	320	987	1,699
Finland—						
Concentrates ( <i>As content</i> )	—	30	67	162	138	156
France—						
White arsenic .. ..	3,148	2,424	3,450	5,218	6,482	(a)
Germany (exports)—						
White arsenic, etc. ..	36	1,064	1,106	3,449	109	603
Greece—						
White arsenic .. ..	19	20	32	55	87	—
Italy—						
Mispickel ( <i>As content</i> ) ..	710	915	990	1,140	1,190	760
White arsenic .. ..	1,700	1,420	715	1,741	2,110	1,146
Portugal—						
Arsenic oxide (d) .. ..	1,590	960	598	735	1,343	1,145
Spain—						
Arsenic oxide (e) .. ..	1,338	513	343	400	508	733
Sweden—						
White arsenic (f) .. ..	14,791	6,316	12,517	16,973	14,207	—
Mexico—						
Ores ( <i>As<sub>2</sub>O<sub>3</sub> content</i> ) ..	7,452	3,520	8,845	12,561	2,820	1,967
United States—						
White arsenic .. ..	17,292	11,424	11,851	14,455	13,994	9,708
Brazil—						
White arsenic .. ..	1,003	943	1,050	1,300	948	367
Peru—						
White arsenic .. ..	995	—	—	—	—	(a)
Iran—						
Ore .. ..	(a)	(a)	750	(a)	(a)	(a)
Japan—						
White arsenic (f) .. ..	1,879	1,970	1,306	1,352	1,380	1,408

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

- (a) Information not available.
- (b) Excluding arsenic contained in gold ores exported.
- (c) Estimated.
- (d) Content of pyrites mined.
- (e) Content of ore.
- (f) Revised.

EXPORTS OF ARSENIC, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
White arsenic and other compounds of arsenic	146	146	4,554	3,583	4,746	1,120
Southern Rhodesia—						
White arsenic .. ..	—	—	—	—	—	—
Canada—						
White arsenic, etc. (c)	1,809	1,732	1,593	2,166	1,594	418
Australia						
White arsenic .. ..	14	24	16	9	—	—
Other compounds ..	(b) 35	68	64	25	174	(b) 76
<b>FOREIGN COUNTRIES</b>						
Belgium-Luxemburg						
E.U.—						
Sulphide .. ..	109	50	124	142	94	76
White arsenic .. ..	149	519	1,879	320	987	1,699
Arsenates .. ..	940	223	877	615	1,110	84
France—						
White arsenic .. ..	27	64	834	4,941	2,564	1,576
Arsenate of lead ..	132	19	44	49	20	4
Other arsenates ..	1,533	439	497	240	236	125
Germany (Federal)—						
Ore, including antimony ore .. ..	15	20	232	(a)	(a)	(a)
White arsenic, etc. ..	36	1,064	1,106	3,449	109	603
Arsenates and arsenites	(a)	(a)	(a)	(a)	1,131	1,259
Italy—						
White arsenic .. ..	964	345	35	12	20	108
Portugal—						
Ore .. ..	299	—	50	—	225	—
White arsenic .. ..	1,104	732	1,225	794	1,200	1,140
Sweden—						
White arsenic .. ..	12,633	6,200	9,922	16,511	10,721	3,959
Mexico—						
White arsenic, pure ..	6,104	4,610	7,628	4,760	3,490	3,907
do. crude .. ..	1,657	106	3,505	4,445	262	113
Ores and concentrates ..	83	—	—	180	—	—
As <sub>2</sub> O <sub>3</sub> content (d) ..	7,152	3,368	8,429	11,572	2,236	2,906
United States—						
Arsenate of lead ..	910	384	464	280	114	135
Arsenate of lime ..	2,040	1,807	1,722	2,391	2,503	1,737
Peru—						
White arsenic .. ..	570	366	7	358	15	(a)
Turkey—						
Ore .. ..	1	2	5	2	2	(a)

(a) Information not available.

(b) Years ended June 30 of that stated.

(c) Including arsenic contained in gold ores exported.

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

IMPORTS OF ARSENIC, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
White arsenic .. ..	7,387	2,965	5,803	6,780	8,308	1,450
Other compounds .. ..	—	(d) 1	—	8	(d) 4	(a)
Union of South Africa—						
Arsenate of soda (b) ..	—	—	—	—	1	(a)
Canada—						
Sulphide and white arsenic .. ..	38	115	7	16	9	14
Arsenate of lead .. ..	—	—	—	2	33	20
Arsenate of lime .. ..	—	—	—	26	60	106
India—						
Arsenic and its oxides ..	135	64	73	185	83	295
Pakistan (e)—						
Arsenic and its oxides	(a)	(a)	(a)	3	18	16
Australia—						
White arsenic .. ..	1,227	1,271	2,149	1,974	2,609	2,146
Other compounds .. ..	156	147	122	190	92	17
New Zealand—						
White arsenic, etc. ..	16	70	29	76	176	81
<b>FOREIGN COUNTRIES</b>						
Belgium-Luxemburg						
E.U.—						
White arsenic .. ..	394	104	97	15	2	39
Czechoslovakia—						
Sulphide .. ..	(c) 33	(a)	(a)	(a)	(a)	(a)
Metallic arsenic .. ..	(c) 13	(a)	(a)	(a)	(a)	(a)
White arsenic .. ..	(c) 138	(a)	(a)	(a)	(a)	(a)
France—						
Sulphide .. ..	68	2	1	—	1	5
Metallic arsenic .. ..	4	25	11	22	13	8
White arsenic .. ..	1,057	434	65	12	—	10
Arsenate of lead .. ..	—	—	—	—	—	8
Germany (Federal)—						
White arsenic .. ..	} (f) 3,004	(f) 51	(f) 1,696	(f) 2,459	{ 2,044	1,734
Sulphide .. ..						
Italy—						
White arsenic .. ..	456	381	213	303	375	284
Metallic arsenic .. ..	1	—	2	3	12	6
Netherlands—						
White arsenic .. ..	10	19	76	144	291	438
Arsenates .. ..	300	207	400	265	789	126
Portugal—						
Metallic arsenic .. ..	1	—	—	—	1	—
White arsenic .. ..	1	—	1	—	—	1
Arsenate of soda .. ..	—	2	3	1	1	—
Algeria—						
White arsenic .. ..	3	49	17	17	17	16
Sulphide .. ..	—	2	5	1	1	4
Arsenates .. ..	27	18	25	30	29	9
Madagascar—						
Arsenates .. ..	10	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

(b) Includes arsenite of soda.

(c) January to October only.

(d) Excess of re-exports.

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

(f) Includes other compounds.

## IMPORTS OF ARSENIC, ETC. (cont.)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b> (cont.)						
Tunis—						
Sulphide .. ..	1	(a)	(a)	(a)	(a)	(a)
Arsenates .. ..	1	(a)	(a)	(a)	(a)	(a)
Mexico—						
Arsenates .. ..	300	207	627	2,384	1,066	379
United States—						
Metallic arsenic .. ..	16	20	62	99	27	63
White arsenic .. ..	8,336	4,193	13,191	12,963	4,003	4,212
Sulphide .. ..	40	20	66	66	(a)	9
Arsenates of lime and soda .. ..	—	—	151	774	115	(b) 35
Argentina—						
Sulphide .. ..	(a)	(a)	(a)	(a)	—	2
White arsenic .. ..	(a)	(a)	(a)	(a)	1,748	1,097
Brazil—						
White arsenic .. ..	360	367	(a)	96	912	(a)
Arsenate of lead .. ..	177	1,271	(a)	137	2	(a)
Uruguay—						
White arsenic .. ..	179	266	311	200	(a)	(a)
Arsenate of lead .. ..	56	36	135	130	(a)	(a)
Venezuela—						
White arsenic .. ..	16	13	(a)	(a)	(a)	(a)
Japan—						
Sulphide .. ..	(a)	(a)	(a)	13	6	27
Turkey—						
Arsenic compounds ..	15	22	11	36	29	(a)

(a) Information not available.

(b) Arsenate of soda only.

**ASBESTOS**  
**PRODUCTION OF ASBESTOS**  
(Long tons)

Producing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Bechuanaland .. .. .	—	—	—	36	398	455
Kenya (anthophyllite) ..	502	705	225	373	348	149
Southern Rhodesia .. ..	61,355	71,105	63,863	69,342	75,745	78,338
Swaziland .. .. .	28,956	30,328	29,167	31,218	31,044	26,878
Union of South Africa—						
Amosite .. .. .	27,127	37,615	37,851	48,262	56,500	34,159
Blue .. .. .	9,735	18,695	27,320	30,053	39,942	33,667
Chrysotile .. .. .	3,962	6,796	12,798	17,419	22,295	16,821
Anthophyllite .. .. .	12	137	79	131	762	11
Canada (b)—						
Chrysotile .. .. .	639,972	513,309	781,557	868,927	829,767	813,595
Crude .. .. .	872	581	807	668	662	697
Fibre .. .. .	216,029	173,735	272,495	297,322	313,968	291,375
Shorts and waste .. .. .	423,071	338,992	508,255	570,937	515,137	521,523
Stone and gravel (waste rock only) (c) .. .. .	39,433	31,510	42,863	30,145	31,533	18,855
Cyprus .. .. .	7,978	12,358	14,752	16,909	16,294	14,255
India .. .. .	28	146	208	518	865	569
Australia—						
Chrysotile .. .. .	356	412	585	1,159	1,119	1,174
Crocidolite .. .. .	647	1,173	1,031	1,399	2,940	3,795
Anthophyllite .. .. .	284	—	—	—	—	—
Amphibole .. .. .	40	59	1	—	—	—
New Zealand .. .. .	—	—	41	813	682	—
<b>Total .. .. .</b>	<b>781,000</b>	<b>693,000</b>	<b>969,400</b>	<b>1,086,600</b>	<b>1,078,700</b>	<b>1,023,900</b>
<b>FOREIGN COUNTRIES</b>						
Finland .. .. .	10,647	10,320	10,776	12,049	10,266	8,613
France .. .. .	1,288	1,073	7,338	6,977	7,445	10,000
Greece .. .. .	9	9	30	33	25	—
Italy .. .. .	12,838	15,122	21,094	22,255	23,560	20,075
Portugal .. .. .	407	99	253	307	165	93
Spain .. .. .	34	40	41	40	30	(a)
Yugoslavia .. .. .	737	1,093	943	1,499	2,466	3,689
Egypt .. .. .	1,599	115	256	1,227	59	(a)
Madagascar .. .. .	—	2	—	17	3	7
Morocco (French) .. .. .	394	396	503	591	567	535
United States—						
Chrysotile .. .. .	33,247	38,320	36,927	46,187	48,114	51,741
Amphibole .. .. .						
Bolivia (exports) .. .. .	145	204	163	311	457	723
Brazil .. .. .	1,283	1,393	831	1,300	1,284	(a)
Chile .. .. .	148	582	169	(a)	(a)	(a)
Venezuela .. .. .	189	194	187	256	387	39
Formosa .. .. .	(a)	(a)	(a)	34	24	—
Japan—						
Chrysotile .. .. .	4,517	5,126	5,575	5,787	2,994	4,014
Amphibole .. .. .	216	244				
Turkey .. .. .	200	246	241	79	—	—
<b>Total* .. .. .</b>	<b>68,000</b>	<b>74,000</b>	<b>85,000</b>	<b>99,000</b>	<b>98,000</b>	<b>101,000</b>
<b>WORLD'S TOTAL* ..</b>	<b>849,000</b>	<b>767,000</b>	<b>1,055,000</b>	<b>1,186,000</b>	<b>1,177,000</b>	<b>1,125,000</b>

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

(a) Information not available.

(b) Sales and shipments.

(c) Not included in total.

**EXPORTS OF ASBESTOS**

*(Domestic Produce)*

*(Long tons)*

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Unmanufactured—						
Crude and fibre ..	1,136	1,923	2,434	2,665	3,159	3,229
Waste, incl. asbestic	638	920	1,163	1,021	1,184	866
Packing, etc. ..	12,624	11,388	10,683	13,581	12,176	9,718
Cement products ..	107,790	116,393	107,978	123,078	133,878	130,039
Yarn and cloth ..	1,887	2,002	1,995	2,290	2,311	2,539
Other manufactures ..	8,908	8,593	7,851	12,818	9,994	5,998
Kenya and Uganda (c)—						
Manufactured ..	5	(a)	3	—	(a)	(a)
Southern Rhodesia—						
Unmanufactured ..	60,503	65,007	65,874	61,012	74,228	63,954
Cement sheets ..	(£29,734)	(£122,052)	(£134,635)	(£136,254)	(£216,646)	(£220,286)
Other manufactures ..	(£10,446)	(£26,581)	(£40,487)	(£52,560)	(£47,371)	(£35,448)
Union of South Africa—						
Unmanufactured ..	57,127	82,244	90,695	112,946	122,448	90,581
Sheets .. (£ S.A.)	(£42,876)	(£61,032)	(£91,071)	(£100,582)	(a)	(a)
Other manufactures	(£ S.A.)	(£109,976)	(£138,367)	(£192,918)	(a)	(a)
Canada—						
Crude ..	779	563	754	589	618	570
Fibre ..	211,676	162,179	258,748	289,816	303,409	282,668
Shorts and waste ..	404,012	314,927	481,550	550,946	501,382	501,164
Manufactured ..	(£143,960)	(£96,969)	(£237,958)	(£507,794)	(£463,419)	(£211,278)
India—						
Crude ..	(a)	—	8	25	40	58
Manufactured ..	(a)	—	(£3,328)	(£2,104)	(£5,475)	(£27,974)
Malaya (incl. re-exports)—						
Sheets ..	854	1,966	3,061	3,963	3,667	3,402
Other manufactures ..	25	93	59	104	112	17
Cyprus—						
Unmanufactured ..	7,980	11,098	15,471	15,088	18,187	9,200
Hong Kong (re-exports)—						
Unmanufactured ..	(£12,984)	(£44,188)	(£114,977)	(£326,041)	44	—
Manufactures ..					(£208,317)	(£344,971)
Australia—						
Crude and fibre ..	278	346	385	588	1,170	2,303
Packing (£ Australian)	(£4,493)	(£8,112)	(£15,636)	(£19,799)	(£12,316)	(£17,602)
(d) ..						
New Zealand—						
Unmanufactured ..	9	—	—	4	—	—
<b>FOREIGN COUNTRIES</b>						
Austria—						
Unmanufactured ..	29	61	21	29	5	—
Manufactured ..	48	50	136	233	128	2,288
Belgium-Luxemburg						
E. U.—						
Unmanufactured ..	36	685	626	692	1,016	213
Spun and woven ..	200	205	291	203	279	291
Paper and board ..	540	386	340	838	344	402
Cement sheets and tiles	25,275	35,614	58,229	82,011	72,848	95,504
Other manufactures ..	63	25	32	221	30	81
Czechoslovakia—						
Unmanufactured ..	(b)	(a)	(a)	(a)	(a)	(a)
Spun and woven ..	(b) 44	(a)	(a)	(a)	(a)	(a)
Paper and board ..	(b) 51	(a)	(a)	(a)	(a)	(a)
Other manufactures ..	(b) 21	(a)	(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	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Denmark—</b>						
Cement sheets .. ..	128	169	10	873	1,304	689
<b>Finland—</b>						
Unmanufactured .. ..	2,472	1,798	2,264	2,880	2,451	2,968
Manufactured .. ..	1,054	980	800	860	556	432
<b>France—</b>						
Unmanufactured .. ..	264	445	2,062	2,504	2,802	3,013
Spun and woven .. ..	124	135	174	209	118	449
Paper and board .. ..	346	306	287	433	279	193
<b>Germany—</b>						
Unmanufactured .. ..	—	—	15	40	51	163
Spun and woven .. ..	—	9	48	} 2,045	858	1,708
Paper and board .. ..	—	2	360			
Other manufactures .. ..	8	54	261			
<b>Italy—</b>						
Unmanufactured .. ..	3,283	3,962	2,840	1,384	1,552	2,314
Manufactured .. ..	7,269	15,369	31,779	27,189	33,080	16,811
<b>Netherlands—</b>						
Unmanufactured .. ..	8	41	8	27	29	5
Cement sheets, tiles, etc.	262	450	862	1,811	4,568	6,985
<b>Portugal—</b>						
Unmanufactured .. ..	172	35	166	78	71	23
<b>Spain—</b>						
Unmanufactured .. ..	9	1	2	10	8	65
Manufactured .. ..	35	35	252	498	687	5
<b>Sweden—</b>						
Unmanufactured .. ..	—	1	240	43	14	4
Manufactured .. ..	20	14	19	31	12	11
<b>Switzerland (including mica)—</b>						
Unmanufactured .. ..	49	61	91	38	106	1
Manufactured .. ..	399	262	281	397	278	236
<b>Yugoslavia—</b>						
Unmanufactured .. ..	(a)	(a)	34	204	40	99
<b>Egypt—</b>						
Unmanufactured .. ..	15	3	43	15	6	(a)
<b>Madagascar—</b>						
Unmanufactured .. ..	—	—	1	17	—	5
<b>Morocco (French)—</b>						
Unmanufactured .. ..	—	6	154	177	20	63
<b>United States—</b>						
Unmanufactured .. ..	5,830	15,733	16,876	12,766	9,166	2,482
Spun, woven and packing .. ..	1,406	1,079	1,085	1,051	1,119	899
Paper and board .. ..	1,463	—	—	—	—	—
Brake linings .. ..	(£655,638)	(£954,219)	(£1,223,801)	(£2,628,549)	(£1,821,697)	(£1,354,483)
Clutch facings .. ..	(£136,709)	(£141,575)	(£206,083)	(£334,255)	(£519,934)	(£485,183)
Pipe covering and cement .. ..	1,428	3,872	1,021	1,809	2,075	1,929
Other manufactures .. ..	3,319	19,073	11,540	13,176	14,904	13,222
<b>Argentina—</b>						
Manufactured .. ..	(a)	(a)	(a)	(a)	1	1
<b>Bolivia—</b>						
Unmanufactured .. ..	145	204	163	311	457	723
<b>Brazil—</b>						
Unmanufactured .. ..	—	—	(a)	(a)	(a)	(a)
<b>Peru—</b>						
Manufactured .. ..	(a)	54	18	298	143	(a)
<b>Japan—</b>						
Unmanufactured .. ..	(a)	(a)	108	99	57	89
Manufactured .. ..	(a)	(a)	80	1,372	427	778
<b>Turkey—</b>						
Unmanufactured .. ..	171	372	28	15	1	2

(a) Information not available.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
<b>United Kingdom—</b>						
<b>Unmanufactured—</b>						
Crude and fibre ..	86,227	92,827	109,498	121,894	125,260	98,958
Waste, including asbestic .. ..	5,526	3,231	10,208	10,490	6,331	10,380
Packing, etc. .. ..	9	7	(a)	(a)	(a)	(a)
Cement products .. ..	1,030	3,328	6,521	5,291	2,480	3,671
Other manufactures ..	145	103	150	117	228	507
<b>Channel Islands—</b>						
Manufactures .. ..	1,071	1,315	1,203	1,224	700	582
<b>Anglo-Egyptian Sudan—</b>						
Sheets, pipes, etc. ..	3,097	3,485	2,249	3,889	2,729	11,544
<b>Kenya (e)—</b>						
Manufactured .. ..	3,149	3,399	3,020	3,797	3,434	2,953
<b>Mauritius—</b>						
Manufactured .. ..	(£1,748)	26	16	178	488	324
<b>Northern Rhodesia—</b>						
Cement sheets, pipes, etc. .. ..	(a)	(£165,022)	(£224,620)	(£293,559)	(£401,250)	(£397,595)
<b>Nyasaland—</b>						
Cement sheets, etc. ..	1,231	1,199	1,817	726	1,289	657
<b>Seychelles—</b>						
Cement sheets .. ..	269	272	131	415	557	25
<b>Southern Rhodesia (total imports)—</b>						
Cement sheets .. ..	(£8,524)	(£26,307)	(£20,274)	(£49,753)	(£95,051)	(£55,096)
Cement pipes .. ..	2,583	3,667	4,083	3,400	5,543	4,881
<b>South West Africa—</b>						
Packing (£S.A.) .. ..	(£2,293)	(£4,467)	(£2,309)	(£1,352)	(a)	(a)
Cement sheets (£S.A.)	(£18,286)	(£14,882)	(£15,692)	(£22,492)	(a)	(a)
Other manufactures (£S.A.) .. ..	(£16,777)	(£18,276)	(£11,129)	(£15,883)	(a)	(a)
<b>Tanganyika—</b>						
Manufactured .. ..	1,389	2,765	3,575	3,316	3,805	2,077
<b>Uganda—</b>						
Manufactured .. ..	(f)	1,284	1,220	1,315	1,375	2,109
<b>Union of South Africa—</b>						
Packing (£S.A.) .. ..	(£98,720)	(£93,059)	(£111,953)	(£170,484)	(a)	(a)
Cement products (£S.A.) .. ..	(£21,690)	(£9,266)	(£9,124)	(£15,542)	(£16,526)	(a)
Other manufactures (£S.A.) .. ..	(£140,419)	(£200,162)	(£57,057)	(£19,257)	(a)	(a)
<b>Zanzibar—</b>						
Manufactured .. ..	198	64	422	121	236	331
<b>Canada (c)—</b>						
Packing .. ..	79	114	149	184	137	131
Other manufactures ..	(£896,673)	(£643,344)	(£797,705)	(£1,056,859)	(£1,131,518)	(£1,036,599)
<b>Newfoundland (b)—</b>						
Asbestos and manufactures .. ..	(£21,103)	(b)	(b)	(b)	(b)	(b)
<b>British West Indies—</b>						
<b>Barbados—</b>						
Cement sheets .. ..	(£13,040)	(£14,268)	(£17,238)	(£24,155)	(£15,177)	(£7,132)
<b>Bermuda—</b>						
Sheets, etc. .. ..	(£8,228)	(£7,114)	(£2,400)	(£12,527)	(£6,455)	(£26,092)
<b>Grenada—</b>						
Manufactured .. ..	(£4,446)	(d) (£264)	(£829)	(£1,357)	(£1,387)	(£1,102)
<b>Jamaica—</b>						
Unmanufactured .. ..	(£835)	(£436)	(£631)	(£705)	(£1,096)	(£441)
Manufactured .. ..	(£47,525)	(£35,150)	(£55,789)	(£108,549)	(£95,330)	(£77,898)

(a) Information not available.

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

(c) Including Newfoundland from April 1, 1949.

(d) Excess of re-exports.

(e) Including Uganda up to 1948 inclusive.

(f) Including with Kenya up to 1948 inclusive.



## IMPORTS OF ASBESTOS (cont.)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
<i>(cont.)</i>						
Trinidad and Tobago—						
Cement products ..	2,176	1,730	856	2,051	1,196	785
Other manufactures ..	254	174	215	258	456	99
British Guiana—						
Cement sheets, etc. ..	704	339	(a)	542	(£19,662)	(£5,174)
Other manufactures ..	11	340	(a)	255	(£16,783)	(£22,447)
Aden—						
Cement sheets ..	—	—	—	—	—	—
Other manufactures ..	—	—	—	—	—	—
Ceylon—						
Cement sheets, etc. ..	(a)	(a)	(a)	(a)	(a)	12,994
Other manufactures ..	(a)	(a)	(a)	(a)	(a)	76
Cyprus—						
Sheets, pipes, etc. ..	998	711	540	3,680	1,159	3,049
Other manufactures ..	(£2,313)	(£813)	(£1,691)	(£411)	(£1,854)	(£2,819)
Hong Kong (total imports)—						
Unmanufactured Manufactures ..	(£17,261)	(£71,024)	(£155,009)	(£477,201)	{ 25 (£244,699)	{ — (£133,014)
India—						
Unmanufactured ..	3,644	7,645	10,783	10,925	11,148	2,849
Cement products ..	1,041	9,958	6,213	4,391	914	178
Packing ..	(£74,421)	(£91,540)	(£24,652)	(£32,291)	(£73,062)	(£111,620)
Other manufactures ..	(£60,146)	(£202,061)	(£88,121)	(£217,788)	(£220,634)	(£259,657)
Malaya (c)—						
Unmanufactured ..	(a)	(a)	(a)	(a)	(a)	1,077
Sheets ..	12,042	6,429	8,267	12,536	17,209	13,608
Other manufactures ..	1,156	1,341	2,402	4,921	5,810	250
North Borneo—						
Sheets, etc. ..	(a)	(a)	(a)	806	1,213	598
Pakistan (b)—						
Cement sheets ..	(a)	(a)	(a)	6,766	6,265	3,714
Sarawak—						
Sheets ..	138	124	233	224	420	485
Australia—						
Crude ..	14,857	14,767	29,536	25,789	27,726	26,516
Packing (£ Australian) ..	(£343,230)	(£363,820)	(£244,018)	(£197,333)	(£341,079)	(£241,887)
(e) ..						
New Zealand—						
Unmanufactured ..	1,884	1,520	3,785	2,348	4,749	1,823
Sheets ..	(d) 367,329	(d) 312,774	(d) 456,577	(d) 1,035,661	(d) 649,534	(d) 44,707
Other manufactures ..	(£98,706)	(£95,876)	(£93,780)	(£114,686)	(£161,268)	(£117,431)
Irish Republic—						
Unmanufactured ..	(a)	(a)	(a)	(a)	2,931	1,887
Manufactured ..	2,184	6,426	5,763	8,764	6,272	5,501
<b>FOREIGN COUNTRIES</b>						
Austria—						
Unmanufactured ..	1,563	1,989	3,441	8,458	6,311	5,410
Manufactured ..	65	105	75	87	115	86
Belgium-Luxemburg E.U.—						
Unmanufactured ..	17,111	14,563	21,510	32,018	32,272	29,504
Spun and woven ..	175	160	148	271	513	153
Paper and board ..	535	749	466	511	367	518
Cement sheets and tiles ..	624	25	128	62	151	530
Other manufactures ..	173	188	389	801	664	557

(a) Information not available.

(b) Years ended March 31 following that stated.

(c) Total imports.

(d) Square yards.

(e) Years ended June 30 of that stated.

## IMPORTS OF ASBESTOS (cont.)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
Czechoslovakia—						
Unmanufactured ..	(c) 5,501	(a)	(a)	(a)	(a)	(a)
Spun and woven ..	(c) 4	(a)	(a)	(a)	(a)	(a)
Paper and board ..	(c) 304	(a)	(a)	(a)	(a)	(a)
Other manufactures ..	(c) 75	(a)	(a)	(a)	(a)	(a)
Denmark—						
Unmanufactured ..	6,083	4,930	9,828	8,257	11,853	10,041
Spun and woven ..	128	114	107	113	171	136
Paper and board ..	335	454	326	502	314	331
Packing, etc. ..	219	174	270	58	27	109
Cement sheets ..	19	20	5,338	52	48	218
Finland (b)—						
Unmanufactured ..	517	548	972	1,132	1,245	878
Manufactured ..	287	218	210	587	333	195
France—						
Unmanufactured ..	20,369	24,923	33,028	39,815	55,149	32,341
Spun and woven ..	102	36	8	4	7	20
Paper and board ..	122	48	142	136	142	134
Germany (Federal)—						
Unmanufactured ..	3,233	7,527	13,638	24,928	36,574	28,260
Spun and woven ..	12	153	405	} 679	445	427
Paper and board ..	133	623	348			
Other manufactures ..	2	10	28			
Greece ..	102	191	175	89	410	211
Iceland—						
Unmanufactured ..	(a)	34	31	34	(a)	(a)
Manufactured ..	(a)	69	124	27	(a)	(a)
Italy—						
Unmanufactured ..	2,065	2,755	6,166	9,285	9,436	10,214
Manufactured ..	366	340	612	1,107	634	749
Netherlands—						
Unmanufactured ..	4,118	2,608	6,825	6,140	8,737	10,077
Cement sheets, tiles, etc.	4,890	13,618	26,343	32,142	19,981	32,546
Other manufactures ..	1,209	1,336	1,283	1,342	1,675	2,094
Norway—						
Unmanufactured ..	1,312	2,023	2,634	3,302	2,827	2,376
Manufactured ..	1,048	1,065	745	1,406	1,496	(a)
Portugal—						
Unmanufactured ..	1,510	2,548	2,286	1,454	2,210	1,516
Manufactured ..	122	48	50	121	98	49
Spain—						
Unmanufactured ..	315	1,168	4,315	4,615	8,693	5,881
Manufactured ..	96	324	253	236	192	140
Sweden—						
Unmanufactured ..	3,563	8,957	10,084	5,197	11,076	10,645
Manufactured ..	1,923	1,496	1,811	2,146	1,494	1,443
Switzerland (including mica)—						
Unmanufactured ..	2,062	3,454	4,230	5,908	5,057	4,323
Manufactured ..	1,473	1,002	1,491	2,157	1,722	1,830
Yugoslavia—						
Unmanufactured ..	(a)	(a)	3,893	295	1,886	1,929
Manufactured ..	(a)	(a)	195	142	276	222
Algeria—						
Unmanufactured ..	448	488	1,527	1,652	2,932	1,755
Manufactured ..	188	141	153	173	40	32
Belgian Congo—						
Unmanufactured ..	(a)	(a)	1,323	1,981	2,939	2,513
Egypt—						
Unmanufactured (b) ..	470	316	854	962	1,740	1,563
Paper and board ..	(b) 93	(b) 188	95	183	102	35
Other manufactures ..	(b) 179	(b) 205	366	248	328	115

(a) Information not available.

(b) Total imports.

(c) January to October only..

## IMPORTS OF ASBESTOS (cont.)

Importing Country and Description	1948	1949	1950	1951	1952	1953
FOREIGN COUNTRIES						
(cont.)						
Mozambique—						
Unmanufactured ..	2	7	272	674	1,183	(a)
Manufactured .. ..	1	1	1	8	11	(a)
Costa Rica—						
Unmanufactured ..	14	20	(a)	(a)	(a)	(a)
Honduras—						
Manufactured .. ..	(a)	(a)	(a)	(a)	(a)	(a)
Mexico—						
Unmanufactured ..	3,853	3,485	5,343	2,943	5,358	4,883
Manufactured .. ..	1,001	1,283	1,780	1,247	1,064	833
Netherlands						
West Indies—						
Manufactured .. ..	5,113	4,497	3,401	(a)	(a)	(a)
United States—						
Unmanufactured—						
Crude .. ..	34,008	41,035	25,919	31,518	34,487	44,460
Mill fibre .. ..	157,954	113,172	157,571	201,137	189,860	152,404
Other .. ..	386,504	305,884	446,128	447,589	409,062	430,671
Manufactured .. ..	545	375	3,310	851	452	445
Argentina—						
Spun and woven ..	1,100	305	341	1,019	96	576
Paper and board ..	7,577	5,825	9,152	18,043	4,340	9,569
Brazil (total imports)—						
Unmanufactured ..	4,893	4,208	8,301	10,925	10,919	7,996
Manufactured .. ..	1,586	1,587	(a)	3,081	2,360	538
Chile—						
Manufactured .. ..	2,412	2,444	2,624	2,481	3,651	(a)
Colombia—						
Unmanufactured ..	(a)	(a)	(a)	(a)	(a)	(a)
Manufactured .. ..	(a)	(a)	(a)	(a)	(a)	(a)
Ecuador—						
Manufactured .. ..	1,688	377	1,791	(a)	(a)	(a)
Peru—						
Unmanufactured ..	475	725	798	1,169	1,949	(a)
Manufactured .. ..	321	145	192	252	283	(a)
Uruguay .. ..	979	1,518	1,708	1,385	(a)	(a)
Venezuela—						
Unmanufactured ..	905	500	983	865	(a)	(a)
Manufactured .. ..	20,159	20,051	10,439	5,575	(a)	(a)
China .. ..	712	(a)	(a)	(a)	(a)	(a)
Iraq—						
Unmanufactured ..	190	10	23	104	(a)	(a)
Israel—						
Manufactured .. ..	(a)	(£38,048)	(£35,670)	(a)	(a)	(a)
Japan—						
Unmanufactured ..	(a)	1,181	6,584	22,432	13,142	18,606
Manufactured .. ..	(a)	(a)	57	164	236	415
Philippine Republic—						
Unmanufactured ..	(a)	(a)	647	361	(a)	(a)
Manufactured .. ..	(a)	(a)	644	146	(a)	(a)
Syria and Lebanon—						
Cement sheets, etc. ..	(a)	(a)	(a)	(a)	(a)	(a)
Other manufactures ..	(a)	(a)	(a)	(a)	(a)	(a)
Turkey—						
Manufactured .. ..	216	487	1,541	2,119	1,982	110

(a) Information not available.

## BARIUM MINERALS

### PRODUCTION OF BARIUM MINERALS\*

(Long tons)

Producing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Great Britain—						
Barytes, unground ..	} 88,228	92,389	73,813	58,234	43,276	42,914
Witherite, unground ..						
Barytes—						
Ground, bleached ..	3,655	19	—	—	—	—
do. unbleached ..	29,881	24,925	22,796	29,185	26,834	25,992
Antigua (Leeward Islands) ..	—	—	—	—	—	—
Canada ..	85,488	42,088	68,908	87,601	121,430	222,297
Southern Rhodesia ..	50	480	257	83	267	239
South West Africa ..	—	47	—	—	—	—
Swaziland ..	97	102	434	469	397	406
Union of South Africa ..	1,706	2,209	2,232	2,006	1,691	1,868
India ..	23,143	21,118	11,963	10,471	10,030	4,057
Australia ..	3,770	5,464	5,933	6,178	4,944	5,677
Irish Republic—						
Barytes, refined ..	3,197	3,597	2,482	1,393	313	—
do. unrefined ..	3,727	2,277	2,263	6,715	1,480	—
<b>FOREIGN COUNTRIES</b>						
Austria ..	3,781	8,130	9,959	9,493	5,079	547
France ..	55,826	29,817	(b) 28,157	37,032	(b) 41,986	30,000
Germany (Federal) ..	(c) 18,767	178,600	305,985	410,884	340,378	377,790
Greece ..	18,411	15,359	20,471	29,365	21,162	26,478
Italy ..	64,625	50,768	53,566	75,332	55,384	68,224
Portugal ..	400	420	126	708	611	310
Spain ..	13,929	7,544	7,034	12,252	15,617	11,976
Sweden (sales) ..	1,884	908	49	148	—	—
Yugoslavia (exports) ..	(a)	(a)	11,880	9,695	26,391	61,149
Algeria ..	13,885	18,570	19,580	20,690	9,690	16,804
Egypt ..	—	30	—	40	29	30
Morocco (French) ..	—	—	4,834	3,205	3,062	49
Tunis ..	224	619	25	10	25	—
Cuba (d) ..	322	—	—	—	(a)	(a)
Mexico ..	(a)	(d) 2,758	(d) 2,407	(d) 1,377	(d) 11,090	(d) 56,288
United States ..	694,501	652,954	(b) 619,129	(b) 754,981	(b) 904,296	843,046
Argentina ..	(a)	(a)	(a)	(a)	(e) 13,000	(a)
Brazil ..	(e) 10,000	5,915	6,752	(a)	(a)	(a)
Chile ..	2,107	1,437	1,246	1,053	2,200	(a)
Colombia ..	118	57	309	2,000	4,000	7,628
Peru ..	1,759	6,250	2,983	22,652	8,960	(a)
Japan ..	3,350	9,686	14,014	16,442	14,006	17,277
<b>TOTAL†</b> ..	<b>1,180,000</b>	<b>1,220,000</b>	<b>1,330,000</b>	<b>1,640,000</b>	<b>1,690,000</b>	<b>1,850,000</b>

\*Barytes unless otherwise stated.

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

(a) Information not available.

(d) Exports.

(b) Revised.

(e) Estimated.

(c) French Zone only.

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

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Unground barytes ..	185	—	(a)	(a)	(a)	(a)
Ground barytes ..	4,718	6,727	466	191	115	218
Dioxide ..	31	44	} 3,221	3,251	2,254	2,060
Barium compounds, excluding blanc fixe ..	3,653	2,381				
Southern Rhodesia—						
Barytes ..	135	570	177	222	415	152
South West Africa—						
Barytes ..	—	36	—	—	—	—
Antigua (Leeward Is.)—						
Barytes ..	—	—	—	—	—	—
Canada—						
Unground barytes ..	34,461	35,470	29,867	43,983	75,929	} 217,000
Ground barytes ..	51,063	8,688	33,116	40,829	43,826	
Hong Kong (re-exports)—						
Barytes ..	(a)	9	13	—	—	—
India—						
Unground barytes ..	14,231	14,535	8,268	5,085	2,306	2,510
Australia—						
Unground barytes ..	326	952	190	119	223	80
Ground barytes ..	1,280	1,046	2,334	1,408	1,209	877
Sulphate (b) ..	22	1	3	(c) 2	(c) 3	(c) 2
Irish Republic—						
Unground barytes ..	594	(a)	(a)	(a)	5,035	1,200
Ground barytes ..	2,504	2,277	2,241	766	(a)	19
<b>FOREIGN COUNTRIES</b>						
Belgium-Luxemburg						
E.U.—						
Barytes and witherite ..	83	252	1	5	25	21
Barytes, ground	} 21,890	} 1,128	168	96	101	160
Sulphate ..			723	998	1,449	423
Carbonate ..	(a)	(a)	(a)	523	261	264
Chloride ..	717	512	140	1,338	100	344
Sulphide ..	17	71	15	10	—	—
Czechoslovakia—						
Barytes ..	(d) 52	(a)	(a)	(a)	(a)	(a)
Sulphate ..	(d) 77	(a)	(a)	(a)	(a)	(a)
France—						
Barytes ..	942	168	694	2,033	757	252
Witherite ..	161	344	269	454	38	66
Precipitated carbonate ..	1,677	1,561	2,286	1,965	1,187	3,004
Precipitated sulphate ..	439	479	239	583	156	354
Barium compounds ..	935	1,801	1,305	1,296	525	1,296
Germany (Federal)—						
Barytes and celestite ..	18,156	23,527	109,748	} 130,752	70,798	77,121
Witherite and strontianite ..	185	20	18			
Carbonate ..	205	645	3,934	7,694	5,645	8,247
Chloride ..	225	1,405	2,668	3,642	2,256	3,537
Nitrate ..	45	28	37	(e) 199	(a)	(a)
Sulphate ..	234	2,174	7,480	(e) 6,924	(a)	(a)

\*For Lithopone, see "Zinc", pages 334-336.

(a) Information not available.

(b) Years ended June 30 of that stated.

(c) Calendar year.

(d) January to October only.

(e) January to September only.

## EXPORTS OF BARIUM MINERALS, ETC. (cont.)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
Greece—						
Barytes .. .. .	18,349	23,396	19,793	25,728	4,805	29,027
Italy—						
Barytes .. .. .	1,296	3,158	11,145	36,824	16,722	13,908
Witherite .. .. .	(a)	(a)	(a)	140	110	—
Precipitated carbonate ..	(a)	(a)	(a)	148	212	300
Chloride .. .. .	10	—	—	288	66	64
Sulphate .. .. .	8,886	11,651	1,097	823	1	13
Netherlands—						
Barytes .. .. .	132	148	—	—	—	11
Sweden—						
Barytes and witherite ..	10	5	—	—	—	—
Yugoslavia—						
Unground barytes ..	(a)	(a)	11,865	6,860	23,717	58,826
Ground barytes ..	(a)	(a)	15	2,835	2,674	2,323
Algeria—						
Barytes .. .. .	13,956	11,037	18,099	10,124	8,671	9,142
Morocco (French)—						
Barytes .. .. .	—	—	591	811	1,063	531
Tunis—						
Barytes .. .. .	37	(a)	(a)	(a)	(a)	(a)
Cuba—						
Barytes .. .. .	322	—	—	—	(a)	(a)
Mexico—						
Barytes .. .. .	—	2,758	2,407	1,377	11,090	56,288
Japan—						
Barytes .. .. .	(a)	(a)	(a)	(a)	(a)	49
Chloride .. .. .	(a)	(a)	(a)	—	—	4
Sulphate .. .. .	(a)	(a)	57	(a)	(a)	16

(a) Information not available.

IMPORTS OF BARIUM MINERALS, ETC.\*

(Less Re-exports)

(Long tons)

Importing Country and Description	1948	1949	1950	1951	1952	1953	
<b>BRITISH COUNTRIES</b>							
United Kingdom—							
Unground barytes ..	10,131	14,973	17,390	38,673	11,745	2,344	
Ground barytes ..	9,934	14,385	17,493	19,616	11,150	16,012	
Barium compounds, excluding blanc fixe ..	1,340	573	279	1,179	762	1,193	
Union of South Africa—							
Barytes ..	601	868	254	788	616	(a)	
Carbonate and dioxide ..	95	195	127	124	157	(a)	
Canada—							
Barytes ..	1,128	838	1,865	954	1,290	1,078	
Blanc fixe ..	624	747	644	331	189	234	
British West Indies—							
Trinidad and Tobago—							
Ground barytes ..	22,898	21,573	20,167	24,687	19,914	25,293	
Hong Kong (total imports)—							
Barytes ..	(a)	176	167	147	(a)	(a)	
India—							
Barytes ..	11	—	6	101	38	31	
Pakistan (d)—							
Barytes ..	(a)	(a)	(a)	1,818	3,519	875	
Australia—							
Barytes ..	—	3	57	43	49	18	
Carbonate ..	(b) 299	55	326	328	192	(b) 63	
Chloride ..	(b) 104	84	128	115	168	(b) 42	
Sulphate ..	(b) 68	27	213	747	563	(b) 89	
Other compounds ..	(b) 19	12	21	50	94	(b) 73	
New Zealand—							
Barytes ..	1,474	668	1,207	999	819	810	
Irish Republic—							
Ground barytes, including blanc fixe ..	26	20	235	675	(a)	(a)	
<b>FOREIGN COUNTRIES</b>							
Austria—							
Barytes ..	1,769	5,490	6,725	9,817	3,063	4,820	
Carbonate ..	90	180	373	400	570	230	
Chloride ..	(a)	122	64	131	—	17	
Belgium-Luxemburg E.U.—							
Barytes and witherite ..	33,836	2,679	21,314	29,444	7,236	3,519	
Barytes, ground ..	10,671	5,743	6,083	5,904	5,370	5,784	
Sulphate ..		359	707	796	492	672	
Carbonate ..		1,458	738	2,334	3,188	1,515	2,382
Chloride ..		186	347	842	560	544	1,325
Sulphide ..		11	51	1	5	5	588
Czechoslovakia—							
Unground barytes ..	(c) 1,079	(a)	(a)	(a)	(a)	(a)	
Ground barytes ..	(c) —	(a)	(a)	(a)	(a)	(a)	
Carbonate ..	(c) 500	(a)	(a)	(a)	(a)	(a)	
Chloride ..	(c) 397	(a)	(a)	(a)	(a)	(a)	
Sulphate ..	(c) 246	(a)	(a)	(a)	(a)	(a)	

\*For Lithopone, see "Zinc", pages 337-340.

(a) Information not available.

(b) Years ended June 30 of that stated.

(c) January to October only.

(d) Years ended March 31 of that following.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Denmark—</b>						
Barytes .. .. .	37	—	357	205	52	—
Witherite .. .. .	172	73	125	299	49	(a)
Chloride .. .. .	54	113	105	190	40	(a)
Sulphate .. .. .	1,281	716	915	1,937	1,685	1,040
<b>Finland (total imports)—</b>						
Barytes .. .. .	181	191	233	642	153	322
Chloride .. .. .	20	—	5	25	2	10
Carbonate .. .. .	23	—	15	59	38	29
Sulphate .. .. .	79	230	135	247	76	67
<b>France—</b>						
Barytes .. .. .	12,272	21,099	41,567	37,399	24,416	20,233
Witherite .. .. .	—	—	170	675	494	(a)
Chloride .. .. .	—	—	5	109	7	—
Hydrate .. .. .	—	15	27	10	5	25
Precipitated carbonate	104	—	2	—	47	—
Sulphate .. .. .	238	210	339	340	235	408
Sulphide .. .. .	—	—	—	41	—	—
<b>Germany (Federal)—</b>						
Barytes and celestite ..	—	—	220	1,254	5	—
Witherite and strontianite ..	—	2	—			
<b>Italy—</b>						
Barytes .. .. .	2	—	13	27	21	130
Witherite .. .. .	(a)	(a)	(a)	501	493	1,980
Precipitated carbonate ..	(a)	(a)	(a)	197	1,028	1,488
Chloride .. .. .	45	152	489	205	201	298
Precipitated sulphate ..	21	1	33	234	354	552
<b>Netherlands—</b>						
Barytes .. .. .	9,202	10,500	26,236	20,384	15,668	13,403
Carbonate .. .. .	592	568	700	1,044	534	1,516
Sulphate .. .. .	2,711	2,230	3,752	5,388	3,120	4,595
Blanc fixe .. .. .	653	596	615	660	1,150	1,537
<b>Portugal—</b>						
Barytes .. .. .	—	—	—	—	—	—
Carbonate .. .. .	3	—	—	2	16	—
Chloride .. .. .	27	30	77	67	86	117
Sulphate .. .. .	32	49	30	76	130	70
<b>Sweden—</b>						
Barytes and witherite ..	1,883	812	1,966	2,705	1,231	1,818
Sulphate .. .. .	(a)	927	903	1,099	866	938
<b>Algeria—</b>						
Barytes (including precipitate) ..	86	1	357	75	60	4
Witherite (including precipitate) ..	15	25	45	35	43	66
<b>Cuba—</b>						
Sulphate .. .. .	148	357	394	500	(a)	(a)
<b>Mexico—</b>						
Barytes .. .. .	123	75	2,864	1,778	4,241	2,055
Witherite .. .. .	(a)	(a)	(a)	(a)	(a)	(a)
Chloride .. .. .	(a)	(a)	(a)	(a)	(a)	(a)
<b>United States—</b>						
Unground barytes .. .. .	47,504	23,373	52,126	47,103	96,355	298,918
Ground barytes .. .. .	—	188	605	143	5,911	231
Witherite .. .. .	2,205	1,886	1,865	1,800	4,620	4,400
Sulphate .. .. .	(a)	1	47	11	29	897
Barium compounds .. .. .	135	85	419	2,079	1,173	4,499
<b>Argentina—</b>						
Barytes .. .. .	(a)	(a)	(a)	(a)	288	252
Sulphate .. .. .	(a)	(a)	(a)	(a)		
Barium compounds .. .. .	(a)	(a)	(a)	(a)		

(a) Information not available.



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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Brazil—</b>						
Carbonate .. ..	(a)	(a)	(a)	(a)	150	(a)
Chloride .. ..	26	110	(a)	340	115	(a)
Sulphate .. ..	250	488	(a)	882	536	(a)
<b>Colombia—</b>						
Sulphate .. ..	(a)	594	103	(a)	(a)	(a)
<b>Peru—</b>						
Barytes .. ..	39	6	467	454	17	(a)
Witherite .. ..	(a)	16	5	20	25	(a)
Carbonate .. ..	5	5	22	25	2	(a)
Sulphate .. ..	5	2	3	4	3	(a)
Other compounds ..	31	57	42	6	—	(a)
<b>Uruguay—</b>						
Oxides .. ..	23	50	44	77	(a)	(a)
Sulphate .. ..	432	250	681	639	(a)	(a)
<b>Venezuela—</b>						
Barytes .. ..	25,218	11,718	(a)	(a)	(a)	(a)
Sulphate .. ..	488	30	(a)	(a)	(a)	(a)
<b>Japan—</b>						
Barytes .. ..	—	—	3	—	1,481	337
<b>Turkey—</b>						
Barytes .. ..	20	32	28	50	27	(a)
Sulphate .. ..	25	8	(a)	(a)	(a)	(a)
Barium compounds ..	70	48	72	71	102	(a)

(a) Information not available.

**BERYL**  
**PRODUCTION OF BERYL**  
(Long tons)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Kenya .. .. .	—	—	—	—	1	—
Northern Rhodesia ..	—	—	5	4	8	5
Southern Rhodesia ..	—	—	832	991	1,060	1,584
South West Africa ..	88	235	648	741	529	527
Tanganyika .. .. .	2	1	—	—	—	—
Uganda .. .. .	44	16	70	2	—	50
Union of South Africa ..	—	220	830	583	369	474
India .. .. .	(a)	(a)	(a)	211	(a)	(a)
Australia (b) .. .. .	55	35	23	112	87	125
<b>FOREIGN COUNTRIES</b>						
Portugal .. .. .	(a)	3	51	100	92	370
Belgian Congo .. .. .	—	—	—	—	—	7
Madagascar .. .. .	9	27	478	522	391	461
Morocco (French) .. ..	50	157	55	83	127	32
Mozambique .. .. .	16	133	260	226	205	215
United States (shipments)	89	424	499	432	460	671
Argentina .. .. .	(c) 49	(c) —	(c) —	(c) —	(c) 491	(c) 1,351
Brazil .. .. .	1,422	2,239	2,166	1,713	2,836	(d) 3,000
Dutch Guiana .. .. .	—	—	—	—	—	2
<b>TOTAL .. .. .</b>	<b>2,000</b>	<b>3,700</b>	<b>6,100</b>	<b>5,720</b>	<b>6,900</b>	<b>9,100</b>

(a) Information not available.

(b) All exported to the United Kingdom.

(c) Imports into the United States.

(d) Estimated.

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

Exporting Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Southern Rhodesia ..	—	22	743	1,244	793	1,468
South West Africa ..	57	165	360	395	588	528
Uganda .. .. .	39	33	16	—	—	33
Union of South Africa ..	—	279	808	801	247	472
India .. .. .	(a)	(a)	(a)	351	(a)	(a)
<b>FOREIGN COUNTRIES</b>						
Portugal .. .. .	(a)	(a)	25	115	75	331
Madagascar .. .. .	6	9	359	465	304	110
Morocco (French) .. ..	(a)	(a)	118	87	125	44
Mozambique (b) .. .. .	49	96	116	155	275	366
Argentina (b) .. .. .	49	—	—	—	491	1,351
Brazil .. .. .	1,755	3,030	2,584	1,508	2,440	1,926

(a) Information not available.

(b) Imports into the United States.

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

Importing Country	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
United States .. .. .	1,194	3,403	4,181	3,854	5,337	7,360

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

**BISMUTH**  
**PRODUCTION OF BISMUTH ORE, ETC.\***  
(Cwt.)

Producing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Southern Rhodesia— Bismuth .. ..	2	—	—	—	—	—
South West Africa— Ore .. ..	—	19	286	4	—	1
Uganda— Ore ( <i>Bi content</i> ) ..	78	148	57	57	55	10
Union of South Africa— Ore ( <i>Bi content</i> ) ..	9	119	142	64	35	14
Canada— Metal and content of bullion exported ..	2,145	919	1,711	2,056	1,450	882
Australia— Concentrates ( <i>Bi content</i> ) .. ..	80	13	18	23	28	8
<b>FOREIGN COUNTRIES</b>						
France— Mispickel ( <i>Bi content</i> )	1,100	1,161	1,535	1,772	1,693	1,417
Spain— Ore ( <i>Bi content</i> ) ..	153	294	185	222	160	492
Yugoslavia— Bismuth .. ..	1,004	750	1,191	1,728	1,943	1,938
Belgian Congo— Ore ( <i>Bi content</i> ) ..	9	11	13	4	9	—
Mozambique— Ore ( <i>Bi content</i> ) ..	—	8	23	14	100	63
Mexico— Ore ( <i>Bi content</i> ) ..	3,161	6,089	5,192	6,656	7,993	6,600
Bolivia (exports)— Ore, etc. ( <i>Bi content</i> ) ..	692	160	480	1,358	314	1,239
Peru— Lead-tin-antimony bars ( <i>Bi content</i> ) .. ..	930	—	—	—	62	} 5,643
Metal .. ..	4,052	4,246	4,465	5,170	6,321	
Anode residues ( <i>Bi content</i> ) .. ..	—	—	2,841	4,396	2,505	(a)
Korea (South)— Bismuth .. ..	2,047	3,405	(a)	246	2,165	4,724

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

(a) Information not available.

**EXPORTS OF BISMUTH, ETC.**

*(Domestic Produce)*

*(Cwt.)*

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom						
Bismuth .. .. .	2,208	3,553	3,830	3,572	3,634	6,329
Bismuth salts .. .. .	(a)	(a)	3,064	2,326	2,437	2,661
South West Africa—						
Ore .. .. .	—	—	230	3	—	4
Uganda .. .. .						
Ore ( <i>Bi content</i> ) .. .. .	53	97	72	33	21	37
Union of South Africa—						
Bismuth .. .. .	—	166	387	44	—	18
Canada—						
Metal .. .. .	1,411	1,589	1,018	786	300	—
Hong Kong (re-exports)						
Ore .. .. .	—	—	—	—	—	—
Australia—						
Concentrates .. .. .	80	80	20	—	109	98
<b>FOREIGN COUNTRIES</b>						
Belgium-Luxemburg						
E.U.—						
Bismuth .. .. .	571	472	216	79	20	217
Salts .. .. .	—	708	—	40	—	—
France—						
Bismuth and alloys including scrap .. .. .	—	—	187	1,203	1,325	986
Bismuth nitrate .. .. .	35	417	254	187	87	179
Germany (Federal)—						
Bismuth salts .. .. .	2	4	756	(b) 681	(a)	(a)
Yugoslavia—						
Bismuth .. .. .	(a)	(a)	740	1,352	1,838	1,826
Mexico—						
Bismuth, refined .. .. .	—	—	—	—	—	652
do. impure bars .. .. .	4,626	9,637	8,196	5,277	7,492	6,187
( <i>Bi content</i> ) (c) .. .. .	(a)	2,332	3,618	3,643	6,825	715
United States—						
Matte, residues, etc. .. .. .	(a)	(a)	70	106	262	378
Metal and alloys .. .. .	3,143	1,704	1,779	1,312	2,186	1,048
Bolivia—						
Ore, etc. ( <i>Bi content</i> ) .. .. .	692	160	480	1,358	314	1,240
Chile—						
Bismuth .. .. .	(a)	(a)	(a)	(a)	(a)	(a)
Salts .. .. .	29	(a)	(a)	(a)	(a)	(a)
Peru—						
Bars, etc. ( <i>Bi content</i> ) .. .. .	5,336	4,376	4,495	5,067	6,122	(a)
Korea (South)—						
Bismuth .. .. .	(a)	(a)	39	654	366	2,809

(a) Information not available.

(b) January to September only.

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

**IMPORTS OF BISMUTH, ETC.**

*(Less Re-exports)*

*(Cwt.)*

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Bismuth .. .. .	3,938	3,227	3,383	4,977	4,561	4,697
Unwrought alloys (e) ..	5,219	3,965	1,217	3,080	3,495	4,120
Canada—						
Bismuth .. .. .	(c) 1,489	(c) 2,435	—	5	22	9
Bismuth salts .. .. .	(£3,497)	(£6,411)	(£7,623)	(£8,261)	(£9,814)	(£6,852)
Hong Kong (total imports)—						
Ore .. .. .	—	—	—	—	—	—
Australia—						
Bismuth .. .. .	463	263	125	188	295	326
Bismuth salts .. .. .	120	124	43	48	61	55
New Zealand—						
Bismuth and its salts ..	(£NZ10,738)	92	120	66	230	56
<b>FOREIGN COUNTRIES</b>						
Belgium-Luxemburg						
E.U.—						
Bismuth .. .. .	20	—	20	39	39	157
Bismuth salts .. .. .	511	157	276	128	138	196
Denmark—						
Bismuth salts .. .. .	(a)	(a)	335	173	244	270
France—						
Bismuth and alloys including scrap ..	2,140	3,295	2,764	2,411	3,027	3,653
Bismuth salts .. .. .	10	—	—	4	26	—
Germany (Federal)—						
Bismuth salts .. .. .	(a)	(a)	4	(b) 2	(a)	(a)
Italy—						
Bismuth .. .. .	(a)	(a)	(d) 108	215	217	220
Bismuth salts .. .. .	8	6	28	128	1,008	47
Spain—						
Bismuth .. .. .	—	—	—	79	79	(a)
Bismuth salts .. .. .	59	—	—	2	154	(a)
Algeria—						
Bismuth salts .. .. .	14	8	—	2	6	6
Mexico—						
Bismuth .. .. .	(a)	(a)	(a)	(a)	(a)	(a)
Bismuth salts .. .. .	24	4,096	105	(a)	73	55
United States—						
Bismuth .. .. .	2,677	4,838	6,979	4,589	6,324	5,727
Argentina—						
Bismuth and its salts ..	(a)	(a)	(a)	(a)	396	607
Chile—						
Bismuth .. .. .	18	(a)	(a)	(a)	(a)	(a)
Peru—						
Bismuth salts .. .. .	146	52	75	87	64	(a)
Venezuela—						
Bismuth salts .. .. .	39	69	(a)	(a)	(a)	(a)
Japan—						
Bismuth .. .. .	(a)	(a)	38	55	(a)	359
Turkey—						
Bismuth .. .. .	7	1	1	2	32	(a)
Bismuth salts .. .. .	154	77	148	124	203	(a)

(a) Information not available.

(b) January to September only.

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

(d) July to December only.

(e) Containing more than 50% by weight of bismuth.

## BORATES

### PRODUCTION OF CRUDE BORATES

(Long tons)

Producing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
Italy— Boric acid .. ..	4,796	4,792	4,713	4,542	4,283	4,142
United States— Borates .. .. .	402,618	417,493	578,335	770,354	521,275	638,596
Argentina— Borate of calcium ..	(a)	(a)	(a)	(a)	(a)	(a)
Chile— Borax .. .. .	(a)	(a)	(a)	(a)	(a)	(d) 2,000
Peru— Borax .. .. .	—	—	—	5	25	(a)
Iran— Borate of calcium ..	(a)	(d) 300	(d) 300	(a)	(a)	(a)
Tibet (b)— Borax .. .. .	(c) 39	(c) 94	(c) 89	(a)	(a)	(a)
Turkey— Borates .. .. .	5,238	6,982	9,628	11,825	13,513	6,285

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

(a) Information not available.

(c) Years ended March 31 following that stated.

(b) Imports into India from Tibet.

(d) Estimated.

EXPORTS OF BORATES

(Domestic Produce)

(Long tons)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Borax .. .. .	797	919	1,742	1,455	953	1,065
Boric acid .. .. .	90	246	491	236	(a)	(a)
Hong Kong (re-exports)—						
Borax .. .. .	513	873	3,315	476	170	2
India—						
Borax .. .. .	—	2	—	9	7	4
<b>FOREIGN COUNTRIES</b>						
Austria—						
Boric acid .. .. .	(a)	(a)	59	12	—	—
Perborate of sodium ..	(a)	131	414	628	600	1,116
Belgium-Luxemburg						
E. U.—						
Borax .. .. .	298	66	478	1,047	246	37
Borates and perborates	94	—	30	3	2	113
France—						
Borax .. .. .	136	436	760	634	474	681
Boric acid .. .. .	121	232	426	113	126	180
Perborate of sodium ..	332	756	242	255	103	59
Germany (Federal)—						
Borates .. .. .	} 15	} 12	} 326	} 959	} 739	} 2,228
Boric acid .. .. .						
Italy—						
Boric acid, crude .. ..	361	471	117	27	185	—
do. refined .. .. .	418	803	427	324	1,007	858
Borax and borates .. ..	381	847	145	181	508	1,425
Perborates .. .. .	—	151	665	1,030	726	1,344
Netherlands—						
Borax .. .. .	91	20	18	41	31	1,070
Sweden—						
Borax and boric acid ..	8	—	1	1	1	3
Perborate of sodium ..	(a)	(a)	98	—	69	103
Switzerland—						
Borax .. .. .	21	1	—	338	44	482
United States—						
Borax and borates .. ..	63,339	} 97,760	} 127,304	} 190,576	} 92,225	} 124,390
Boric acid .. .. .	6,988					
Argentina—						
Borates of calcium and sodium .. .. .	(a)	(a)	(a)	(a)	—	50
Tibet (b)—						
Borax .. .. .	(c) 39	(c) 94	(c) 89	(a)	(a)	(a)
Turkey—						
Borates .. .. .	5,967	8,377	9,991	12,354	11,969	(a)

(a) Information not available.

(c) Years ended March 31 following that stated.

(b) Imports into India from Tibet.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953	
<b>BRITISH COUNTRIES</b>							
United Kingdom—							
Borates .. .. .	15,224	12,846	14,981	18,739	13,309	13,511	
Borax .. .. .	12,414	10,890	14,028	22,005	12,109	17,026	
Boric acid .. .. .	3,133	3,141	4,722	5,804	2,971	3,664	
Anglo-Egyptian Sudan—							
Borax .. .. .	32	3	—	—	1	(a)	
Kenya—							
Borax, refined .. .. .	(a)	13	11	15	88	6	
Southern Rhodesia—							
Borax .. .. .	89	113	86	18	74	57	
Boric acid .. .. .	—	7	4	4	3	5	
Tanganyika—							
Borax, refined .. .. .	15	13	12	8	5	4	
Uganda—							
Borax, refined .. .. .	(a)	3	3	2	1	3	
Union of South Africa—							
Borax .. .. .	634	590	559	525	415	(a)	
Boric acid .. .. .	134	259	163	252	208	(a)	
Canada—							
Borax .. .. .	6,161	6,666	7,966	8,132	7,443	8,554	
Boric acid .. .. .	1,429	1,832	1,616	2,242	1,562	1,698	
Aden—							
Borax .. .. .	—	—	—	—	—	—	
Hong Kong (total imports)—							
Borax, crude .. .. .	770	2,509	5,530	971	1,060	47	
do. refined .. .. .							2,490
India—							
Borax .. .. .	3,114	836	2,284	7,422	491	903	
Pakistan (b)—							
Borax .. .. .	(a)	(a)	(a)	248	261	438	
Australia—							
Borates, crude (d) .. .. .	120	33	—	100	58	70	
Boron salts .. .. .	1,388	1,456	1,834	3,447	2,253	1,581	
Boric acid (d) .. .. .	1,228	800	675	1,209	1,194	591	
New Zealand—							
Borax .. .. .	146	50	13	10	18	22	
do. fertilizer .. .. .							366
Boric acid .. .. .							104
Boric acid .. .. .	38	104	80	147	143	141	
Irish Republic—							
Borax .. .. .	300	553	989	553	775	771	
Boric acid .. .. .	92	116	136	118	71	(a)	
<b>FOREIGN COUNTRIES</b>							
Austria—							
Borax, crude .. .. .	544	1,276	1,603	2,686	1,871	1,850	
do. refined .. .. .	3	2	1	3	—	—	
Boric acid .. .. .	—	1	—	—	—	3	
Perborate of sodium .. .. .	(a)	40	3	80	—	28	
Belgium-Luxemburg							
E.U.—							
Borax .. .. .	1,100	923	2,462	2,171	1,446	143	
Boric acid .. .. .	190	239	289	252	217	302	
Borates and perborates .. .. .	(a)	920	1,194	1,886	568	1,582	
Czechoslovakia—							
Borax .. .. .	(c) 1,303	(a)	(a)	(a)	(a)	(a)	
Boric acid .. .. .	(c) 188	(a)	(a)	(a)	(a)	(a)	

(a) Information not available.

(b) Years ended March 31 of that following.

(c) January to October only.

(d) Years ended June 30 of that stated.



## IMPORTS OF BORATES (cont.)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b> (cont.)						
<b>Denmark—</b>						
Borax .. .. .	94	109	11	78	134	36
Boric acid .. .. .	20	67	185	84	58	76
Borates and perborates	386	876	864	1,418	854	1,196
<b>Finland (total imports)—</b>						
Borax .. .. .	302	85	566	415	119	552
Boric acid .. .. .	28	33	60	59	88	46
<b>France—</b>						
Boron minerals .. .. .	5,452	15,918	6,641	21,999	11,017	8,562
Borax .. .. .	15	2,460	2,705	2,160	2,655	4,962
Boric acid .. .. .	49	109	289	226	143	—
Borates and perborates	1	—	1,368	333	221	678
<b>Germany (Federal)—</b>						
Boron minerals .. .. .	890	8,369	22,302	23,013	18,757	11,658
Boric acid .. .. .	120	2,135	2,337	11,141	1,043	1,664
Borates .. .. .					2,157	3,690
<b>Greece—</b>						
Borax .. .. .	114	162	71	44	72	58
<b>Italy—</b>						
Boron mineral .. .. .	(a)	(a)	(b) 147	1,962	1,117	3,267
Boric acid .. .. .	1	—	4	178	365	139
Borax and borates .. .. .	—	16	1,277	3,322	3,109	1,770
Perborates .. .. .	4	30	145	161	367	637
<b>Netherlands—</b>						
Borax .. .. .	2,447	5,047	6,461	8,270	4,502	6,727
Boric acid .. .. .	237	504	236	554	393	310
Perborates .. .. .	—	128	310	823	632	911
<b>Norway—</b>						
Borax .. .. .	243	385	449	698	365	267
Boric acid .. .. .	127	49	154	243	292	267
<b>Portugal—</b>						
Boric acid .. .. .	40	143	63	90	166	58
Borates .. .. .	317	574	287	295	869	279
<b>Spain—</b>						
Boric acid .. .. .	25	12	6	—	3	(a)
Borates .. .. .	59	99	307	238	274	(a)
<b>Sweden—</b>						
Borax .. .. .	1,164	1,267	2,148	3,027	2,098	1,231
Boric acid .. .. .	72	311	472	524	375	223
Perborates .. .. .	(a)	1,176	1,545	2,125	831	(a)
<b>Switzerland—</b>						
Borax .. .. .	1,583	1,144	3,453	6,380	275	1,764
<b>Yugoslavia—</b>						
Borax .. .. .	(a)	(a)	278	333	563	(a)
<b>Algeria—</b>						
Borax and boric acid .. .. .	14	19	39	37	22	17
<b>Egypt—</b>						
Borax .. .. .	284	167	208	407	253	191
Boric acid .. .. .	44	23	15	9	39	11
<b>Mozambique—</b>						
Borax .. .. .	4	3	1	2	6	(a)
Boric acid .. .. .	1	—	1	1	1	(a)
<b>Tunis—</b>						
Borax .. .. .	16	(a)	(a)	(a)	(a)	(a)
Boric acid .. .. .	2	(a)	(a)	(a)	(a)	(a)
<b>Cuba—</b>						
Borax .. .. .	94	96	74	104	(a)	(a)
Boric acid .. .. .	763	220	225	313	(a)	(a)
<b>Mexico—</b>						
Borax .. .. .	(a)	(a)	(a)	(a)	(a)	(a)
Boric acid .. .. .	(a)	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

(b) July to December only.

## IMPORTS OF BORATES (cont.)

Importing Country and Description	1948	1949	1950	1951	1952	1953
FOREIGN COUNTRIES (cont.)						
Brazil (total imports)—						
Boron minerals.. ..	1,403	1,569	(a)	648	883	912
Boric acid .. ..	114	222	(a)	421	249	(a)
Borates .. ..	10	91	(a)	3,016	1,406	(a)
Colombia—						
Perborate of sodium ..	(a)	551	350	(a)	(a)	(a)
Ecuador—						
Borax .. ..	7	2	9	(a)	(a)	(a)
Boric acid .. ..	5	4	4	(a)	(a)	(a)
Peru—						
Borax .. ..	123	208	117	233	125	(a)
Boric acid .. ..	32	30	18	22	7	(a)
Uruguay—						
Borate of calcium ..	273	79	163	301	(a)	(a)
Venezuela—						
Borax .. ..	23	38	75	51	(a)	(a)
Boric acid .. ..	46	40	(a)	(a)	(a)	(a)
Iran—						
Borax .. ..	121	134	337	155	(a)	(a)
Boric acid .. ..	3	11	3	7	(a)	(a)
Israel—						
Borax .. ..	(a)	—	73	(a)	(a)	(a)
Japan (total imports)—						
Borax .. ..	3,636	2,020	2,269	13,967	2,009	7,460
Boric acid .. ..	(a)	(a)	247	803	717	1,108
Turkey—						
Borax .. ..	143	118	144	173	181	(a)
Boric acid .. ..	5	—	—	29	19	(a)

(a) Information not available.

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

Producing Country	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
France (b) .. ..	2,200,000	1,933,000	2,339,000	2,297,000	1,574,000	1,764,000
Italy .. ..	(a)	516,790	863,846	930,560	1,149,439	(a)
United States (c) .. ..	76,047,551	88,725,709	98,502,300	129,563,073	156,201,577	164,143,348
Israel (c) .. ..	—	—	—	—	—	—
Japan (d) .. ..	132,000	450,000	714,000	1,058,000	952,000	1,667,000

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

(a) Information not available.

(c) Includes bromine content of compounds.

(b) Sales.

(d) Revised.

**EXPORTS OF BROMINE, ETC.**  
(Domestic Produce)  
(lb. advp.)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Bromine .. ..	6,500	7,700	9,400	15,700	5,200	6,000
Bromides .. ..	179,900	75,700	131,200	699,200	441,500	308,100
<b>FOREIGN COUNTRIES</b>						
Belgium-Luxemburg						
E.U.—						
Bromine .. ..	(a)	(a)	6,614	—	—	—
Bromides .. ..	165,347	2,205	660	—	—	—
France—						
Bromine .. ..	637,577	349,433	289,246	561,517	251,768	62,170
Bromides .. ..	300,490	542,337	346,346	822,765	375,888	619,940
Germany (Federal)—						
Bromine .. ..	233,470	57,541	459,223	(b) 459,443	(a)	(a)
Bromides .. ..	11,244	127,868	1,030,661	789,255	185,850	(a)
Italy—						
Bromine .. ..	—	—	—	—	—	882
Bromides .. ..	419	4,674	198	61,289	220	15,653
Spain—						
Bromine .. ..	—	—	—	343	—	(a)
Bromides .. ..	6	1,167	—	2,220	—	(a)
Sweden—						
Bromine .. ..	—	—	—	4,409	—	—
United States—						
Bromine and compounds	1,054,523	925,639	869,816	2,587,421	2,789,749	3,414,065
Israel—						
Bromine .. ..	122,797	—	—	—	—	—
Bromides .. ..	5,512	—	—	—	—	—

(a) Information not available.

(b) January to September only.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Bromine .. .. .	312,600	244,300	(b) 400	1,120,300	121,200	2,500
Bromides .. .. .	(b) 20,700	(b) 12,800	11,100	897,100	20,900	16
Union of South Africa—						
Bromine .. .. .	454	425	335	609	2,146	(a)
Canada—						
Bromine .. .. .	20,720	16,594	18,231	26,302	7,406	10,956
Bromides .. .. .	41,884	58,055	72,961	45,560	38,280	66,814
Australia (years ended June 30)—						
Bromine (£ Aust.) ..	(£450)	(£6,548)	(£269)	(£3,251)	(£75)	(£78)
Bromates and bromides	225,578	151,762	(d)352,553	(d)780,807	(d)303,986	(d)221,982
New Zealand—						
Bromine (£ N.Z.) ..	(a)	(£157)	(£44)	(£106)	(£61)	(£73)
Bromide of soda ..	(a)	10,640	13,888	13,440	12,880	4,592
Bromates and bromide of potash .. .. .	(a)	10,864	16,016	22,624	19,040	4,480
<b>FOREIGN COUNTRIES</b>						
Belgium-Luxemburg E.U.—						
Bromine .. .. .	(a)	17,637	4,409	41,888	19,842	66,139
Bromides .. .. .	(a)	(a)	238,099	282,240	242,511	416,674
Czechoslovakia—						
Bromine .. .. .	(c) 25,133	(a)	(a)	(a)	(a)	(a)
Denmark—						
Bromide of potash ..	(a)	(a)	26,912	9,480	22,267	19,621
Bromide of soda ..	(a)	(a)	21,826	23,149	47,179	27,337
Other bromides ..	(a)	(a)	45,415	12,125	12,566	6,173
France—						
Bromides .. .. .	—	1,102	—	2,646	441	—
Germany—						
Bromides .. .. .	—	—	2,425	—	6,834	(a)
Italy—						
Bromine .. .. .	2	7	271,633	325,182	219,360	307,104
Bromides .. .. .	2,269	24,317	61,555	166,890	4,189	13,007
Netherlands—						
Bromine .. .. .	(a)	(a)	4,409	55,116	112,436	127,868
Norway—						
Bromine .. .. .	1,274	1,060	1,041	1,210	1,362	489
Portugal—						
Bromine .. .. .	644	1,382	922	974	1,045	1,878
Bromide of soda ..	448	1,861	448	919	1,005	1,100
Bromide of potash ..	1,803	2,738	3,175	2,857	2,493	2,806
Bromide of ammonium	375	952	154	476	628	337
Spain—						
Bromine .. .. .	—	—	—	—	—	(a)
Bromides .. .. .	22,406	35,111	50,023	6,504	18,958	(a)
Sweden—						
Bromine .. .. .	(a)	3,042	6,614	30,865	10,134	2,205
Algeria—						
Bromine .. .. .	661	220	—	220	—	220
Bromides .. .. .	441	1,102	1,323	1,764	1,764	1,102
Cuba—						
Bromine .. .. .	25,481	190	123	53	(a)	(a)
Mexico—						
Bromine .. .. .	(a)	(a)	(a)	(a)	(a)	(a)
Bromides of potash and soda .. .. .	17,952	7,485	29,269	74,816	26,464	26,037

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

IMPORTS OF BROMINE, ETC. (cont.)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
United States—						
Bromine and compounds	102	87	96	2,624	2,387	575
Argentina—						
Bromine and bromides	(a)	(a)	(a)	(a)	3,560	31,559
Peru—						
Bromine .. ..	489	454	(a)	600	485	(a)
Bromides .. ..	9,248	15,415	7,228	7,181	8,631	(a)
Iran—						
Bromine .. ..	26	2	(a)	(a)	(a)	(a)
Japan—						
Bromine compounds ..	(a)	(a)	(a)	(a)	1,766	1,000
Turkey—						
Bromine .. ..	423	639	225	567	284	(a)
Bromides .. ..	6,944	13,436	9,061	19,293	18,902	(a)

(a) Information not available.

# CADMIUM

## PRODUCTION OF CADMIUM

(lb. avdp.)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom ..	255,226	226,240	262,125	326,278	346,752	380,419
South West Africa (b) ..	1,140,000	1,662,000	1,344,000	1,434,000	1,112,000	1,194,000
Canada .. ..	766,090	846,541	848,406	1,326,920	948,587	1,315,989
Australia .. ..	646,733	581,280	659,500	517,400	641,500	665,840
<b>FOREIGN COUNTRIES</b>						
Belgium .. ..	661,000	794,000	805,000	805,000	1,213,000	1,323,000
France .. ..	103,600	128,000	159,000	185,400	194,708	282,000
Germany .. ..	(c) 7,700	(c) 11,000	26,500	154,300	144,100	227,000
Italy .. ..	104,000	161,616	166,151	444,919	290,450	398,003
Norway .. ..	136,700	157,400	173,500	221,035	162,869	197,360
Poland .. ..	(a)	(a)	(a)	(a)	(a)	(a)
Spain .. ..	11,834	11,279	9,586	8,600	12,073	16,300
Belgian Congo ..	39,700	55,100	65,407	52,900	45,208	70,500
Mexico (d) ..	1,997,280	1,808,824	1,474,251	1,970,476	1,618,391	2,113,342
United States (e)—						
Metal .. ..	7,582,961	8,023,616	8,849,690	8,114,238	8,387,824	9,682,197
Compounds (metal content) .. ..	192,696	203,001	340,704	197,099	179,335	85,000
Peru .. ..	3,510	—	3,005	—	37,635	(a)
Japan .. ..	41,610	115,707	199,183	259,455	366,624	458,824
<b>TOTAL*</b> .. ..	<b>10,800,000</b>	<b>11,600,000</b>	<b>12,800,000</b>	<b>12,800,000</b>	<b>13,400,000</b>	<b>15,600,000</b>

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

(a) Information not available.

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

(c) Bizonal area only.

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

(e) In addition secondary (metal and cadmium content of compounds) produced was as follows:

1948	..	..	..	121,159 lb.
1949	..	..	..	384,398 "
1950	..	..	..	427,052 "
1951	..	..	..	167,957 "
1952	..	..	..	80,000 "
1953	..	..	..	70,000 "

EXPORTS OF CADMIUM, ETC.

(Domestic Produce)

(lb. avdp.)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Metal .. .. .	5,141	5,520	(a)	(a)	(a)	(a)
Compounds .. .. .	66,100	60,700	77,000	57,200	76,000	62,300
South West Africa (b) ..	782,000	1,688,000	1,584,000	752,000	1,024,000	1,008,000
Canada .. .. .	596,098	633,607	676,005	824,850	620,344	969,563
Australia .. .. .	194,880	389,760	383,040	297,920	306,880	633,920
<b>FOREIGN COUNTRIES</b>						
Belgium-Luxemburg						
E.U. .. .. .	(a)	(a)	1,003	324,079	121,254	167,551
France—						
Cadmium .. .. .	—	—	220	1,102	441	882
Cadmium salts .. .. .	220	61,730	441	22,716	13,007	661
Italy—						
Cadmium (incl. scrap) ..	(a)	(a)	(c) 16,314	31,967	3,086	107,145
Cadmium salts .. .. .	(a)	(a)	(a)	33,069	1,102	13,007
Poland .. .. .	(a)	(a)	(a)	(a)	(a)	(a)
Belgian Congo .. .. .	(a)	(a)	70,303	54,793	43,100	70,405
Mexico (d) .. .. .	1,997,280	1,732,776	1,518,359	1,970,476	1,618,391	2,113,342
United States—						
Metal .. .. .	955,701	566,135	352,927	606,233	} 300,918	65,865
Alloys .. .. .	1,506	3,000	9,106	5,639		
Dross, flue dust, etc. ..	92,847	500	—	200,579		
Peru .. .. .	3,510	1,711	3,003	—	—	(a)

(a) Information not available.

(b) Cadmium content of concentrates exported for treatment.

(c) July to December only.

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

IMPORTS OF CADMIUM, ETC.

(Less Re-exports)

(lb. avdp.)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Metal .. .. .	1,043,665	685,511	1,073,454	1,485,056	1,381,838	767,177
Compounds .. .. .	300	1,000	(a)	(a)	(a)	(a)
Australia—						
Cadmium salts .. .. .	(b) 3,469	(b) 930	857	803	2,387	(b) 466
New Zealand—						
Cadmium and salts .. .. .	(a)	896	336	224	224	336
<b>FOREIGN COUNTRIES</b>						
Belgium-Luxemburg						
E.U. .. .. .	(a)	26,455	39,683	33,069	22,046	28,660
France—						
Cadmium .. .. .	351,858	483,694	372,581	620,160	199,959	225,533
Cadmium salts .. .. .	36,155	44,313	33,510	21,825	7,937	5,732
Germany—						
Cadmium oxide .. .. .	(a)	(a)	(a)	(c) 1,102	13,228	17,417
Italy—						
Cadmium .. .. .	(a)	(a)	—	—	35,053	21,164
Cadmium sulphide .. .. .	(a)	(a)	3,086	16,976	11,244	11,464
Sweden .. .. .	192,693	290,516	235,895	213,848	248,525	174,165
Yugoslavia .. .. .	(a)	(a)	4,630	1,323	4,275	10,194
United States—						
Cadmium .. .. .	9,809	157,204	724,334	90,065	1,478,770	1,555,138
Flue dust (cadmium content) .. .. .	1,828,139	1,789,667	1,507,417	1,606,775	1,991,549	1,863,538
Argentina (cadmium and salts) .. .. .	—	(a)	(a)	(a)	4,081	11,184
Turkey—						
Cadmium .. .. .	37	86	68	26	51	(a)
Cadmium salts .. .. .	271	49	128	157	203	(a)

(a) Information not available.

(b) Years ended June 30 of that stated.

(c) October to December only.



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

Producing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Great Britain .. ..	660,246	634,205	734,648	908,840	789,908	809,288
Kenya .. .. .	764	1,319	1,286	1,908	877	—
Southern Rhodesia .. ..	—	23,341	13,696	9,569	3,573	—
Tanganyika .. .. .	134	162	59	156	293	1,278
Union of South Africa .. ..	4,752	5,679	8,323	10,526	7,361	7,785
Hong Kong .. .. .	7,722	2,797	1,701	5,589	4,330	5,934
India .. .. .	41,243	42,396	53,583	69,096	85,963	109,370
Malaya .. .. .	923	1,173	1,435	1,719	1,128	1,241
Australia (e) .. .. .	30,021	23,261	(c) 41,415	40,233	36,057	39,722
<b>FOREIGN COUNTRIES</b>						
Austria (crude) .. ..	127,955	159,349	182,814	208,204	198,652	193,743
Belgium .. .. .	(d) 18,237	8,962	17,471	23,061	26,270	(a)
Czechoslovakia (estimated) .. .. .	150,000	(a)	(a)	(a)	(a)	(a)
Denmark—						
Crude .. .. .	3,633	7,683	12,495	13,022	14,177	(a)
Washed and pressed .. ..	6,966	6,485	2,881	7,103	7,423	(a)
Washed and unpressed .. ..	578	—	3,615	(a)	(a)	(a)
Washed waste .. .. .	9,085	9,572	8,456	5,671	7,184	(a)
France .. .. .	127,092	121,530	99,596	104,741	153,314	157,000
Germany (Federal) .. .. (f)	135,674	(f) 180,618	288,825	292,825	278,564	267,357
Greece .. .. .	2,603	4,972	6,240	8,000	8,624	(a)
Italy—						
Crude .. .. .	86,629	60,251	57,928	55,835	74,747	(a)
Kaolinic earth .. .. .	8,297	19,650	21,513	23,961	5,616	(a)
Portugal—						
Crude .. .. .	12,154	12,500	16,602	11,025	20,717	24,137
Washed .. .. .	13,287	7,426	10,364	26,168	10,064	12,653
Kaolinic sand (g) .. .. .	318	242	301	243	76	279
Spain (crude) .. .. .	35,104	31,202	37,937	49,691	60,195	53,415
Sweden (washed) (b) .. ..	7,955	6,910	6,078	1,339	2,401	1,553
Algeria .. .. .	1,178	2,903	750	1,450	1,999	381
Egypt .. .. .	168	199	69	236	(a)	286
Eritrea .. .. .	2,985	2,850	1,000	(a)	(a)	(a)
Madagascar .. .. .	40	82	126	75	70	50
Morocco (Spanish) .. .. (a)	—	(a)	(a)	44	73	143
Mozambique .. .. .	—	—	53	—	—	—
United States (b) .. ..	1,400,757	1,263,872	1,563,266	1,666,338	1,633,127	1,629,000
Chile .. .. .	12,769	11,516	8,586	8,798	4,320	(a)
Peru (b) .. .. .	1,395	767	460	465	156	(a)
Japan .. .. .	6,410	7,178	(a)	(a)	12,703	14,907
Korea (South) .. .. .	7,601	9,958	5,177	7,577	1,738	14,391
Portuguese India (exports) .. .. .	87	—	(a)	(a)	(a)	(a)

China clay is also produced in Bulgaria, Roumania, U.S.S.R., Argentina, Brazil, China, Indonesia and Siam.

(a) Information not available.

(b) Sales.

(c) Including Pottery clay produced in Victoria.

(d) Including "Eurite".

(e) Excluding South Australia up to and including 1951.

(f) Bizonal area.

(g) Kaolin content.

EXPORTS OF CHINA CLAY

(Domestic Produce)

(Long tons)

Exporting Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom .. .. .	335,506	295,233	405,225	471,666	458,409	475,956
Tanganyika .. .. .	102	46	18	46	161	1,230
Union of South Africa .. .. .	10	—	—	485	12	56
Hong Kong .. .. .	(a)	(a)	(a)	(a)	2,024	2,491
Malaya (b) .. .. .	3	29	158	258	250	130
<b>FOREIGN COUNTRIES</b>						
Austria .. .. .	9,522	12,135	12,292	14,074	15,407	14,904
Belgium-Luxemburg .. .. .						
E.U. .. .. .	522	446	1,042	168	2,283	38
Czechoslovakia .. .. .	(c) 56,808	(a)	(a)	(a)	(a)	(a)
Denmark .. .. .	10	—	33	34	15	499
France—						
China clay .. .. .	6,491	5,045	4,890	6,753	3,575	3,241
Kaolinic earth .. .. .	2,246	4,004	1,349	1,666	1,310	1,242
Germany (Federal) .. .. .	983	4,150	10,037	15,382	15,345	16,482
Italy .. .. .	403	—	24	49	79	21
Portugal .. .. .	4,322	773	2,024	9,938	5,125	5,821
Spain .. .. .	47	55	174	205	2,666	(a)
Sweden .. .. .	941	8	60	907	359	39
Algeria .. .. .	918	562	536	633	507	461
Morocco (Spanish) .. .. .	(a)	(a)	(a)	115	20	(a)
United States .. .. .	17,030	19,499	25,233	32,531	35,985	38,920
Portuguese India .. .. .	87	—	(a)	(a)	(a)	(a)

(a) Information not available.

(b) Including re-exports.

(c) January to October only.

# IMPORTS OF CHINA CLAY

(Less Re-exports)

(Long tons)

Importing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom (b) ..	396	276	(a)	(a)	(a)	(a)
Union of South Africa (c)	584	613	538	712	610	(a)
Canada (f) .. ..	80,024	75,447	83,062	96,097	89,295	100,769
Newfoundland (e) ..	1,027	(e)	(e)	(e)	(e)	(e)
Hong Kong .. ..	(a)	(a)	(a)	(a)	(a)	86
India .. .. .	1,510	3,314	2,664	6,470	7,394	11,675
Malaya (total imports) ..	106	30	5	3	19	2
Australia .. ..	(d) 487	721	2,108	644	2,709	129
New Zealand .. ..	(a)	649	875	580	774	741
<b>FOREIGN COUNTRIES</b>						
Austria .. .. .	1,281	1,134	858	1,725	1,431	1,079
Belgium-Luxemburg ..						
E.U. .. .. .	40,887	34,763	36,386	48,376	31,038	34,927
Czechoslovakia .. ..	—	(a)	(a)	(a)	(a)	(a)
Denmark—						
Crude .. .. .	736	968	} 18,478	} 20,876	} 21,780	} 19,041
Washed .. .. .	11,563	14,883				
Finland (total imports)	35,764	15,486	18,405	29,720	26,995	22,186
France—						
China clay .. ..	13,858	9,510	30,655	55,002	33,520	36,069
Kaolinic earth ..	798	1,631	1,716	1,288	1,211	1,255
Germany (Federal) ..	32,438	44,725	61,002	70,964	90,623	89,087
Italy .. .. .	18,037	25,878	33,266	41,010	51,717	51,217
Netherlands (g) .. .	42,284	43,511	54,092	53,925	49,030	57,931
Norway .. .. .	19,500	17,628	19,410	25,747	23,917	24,449
Poland .. .. .	(a)	(a)	(a)	(a)	(a)	(a)
Portugal .. .. .	82	14	48	28	59	62
Spain .. .. .	119	242	184	1,082	105	(a)
Sweden .. .. .	44,291	35,310	41,610	50,208	45,589	53,023
Yugoslavia .. .. .	(a)	(a)	741	305	119	186
Algeria .. .. .	360	1,409	1,545	3,149	1,068	2,518
United States .. ..	89,223	68,952	109,798	98,638	92,801	106,049
Argentina .. .. .	(a)	(a)	(a)	(a)	400	95
Peru .. .. .	(a)	88	125	70	174	(a)
Uruguay .. .. .	346	1,006	1,707	1,271	(a)	(a)
Iran .. .. .	(a)	(a)	(a)	2	(a)	(a)
Japan .. .. .	(a)	(a)	(a)	2,967	4,368	7,197
Turkey .. .. .	77	62	4	88	101	(a)

(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 <sub>2</sub> O <sub>3</sub> content*											
	1948	1949	1950	1951	1952	1953	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>												
Sierra Leone ..	7,761	21,752	7,399	16,165	23,493	24,354	3,300	9,100	3,100	6,800	9,900	10,200
Southern Rhodesia ..	227,061	239,662	286,922	295,527	317,571	413,420	109,000	115,000	136,000	142,000	152,000	198,000
Union of South Africa ..	406,266	397,967	488,487	536,399	570,866	713,006	183,433	179,000	219,000	240,000	256,000	321,000
Canada ..	1,531	322	—	—	—	—	700	140	—	—	—	—
Cyprus (b) ..	10,847	13,862	16,371	12,349	11,594	6,829	5,093	6,511	7,792	5,938	5,461	3,178
India ..	22,555	19,416	16,729	16,702	35,187	64,770	11,000	9,700	8,000	8,000	17,400	31,100
Pakistan ..	17,427	15,673	18,125	17,498	17,230	23,439	8,360	7,500	8,700	8,400	8,300	11,200
Australia ..	555	632	891	1,380	1,398	2,741	(a)	(a)	(a)	(a)	576	1,131
<b>TOTAL</b> ..	<b>694,000</b>	<b>709,300</b>	<b>834,900</b>	<b>895,100</b>	<b>977,300</b>	<b>1,248,600</b>						
<b>FOREIGN COUNTRIES</b>												
Greece ..	1,500	3,666	12,627	24,933	31,654	36,178	440	1,300	4,500	9,000	11,400	16,000
Portugal ..	173	87	44	32	106	5	69	34	18	13	42	2
U.S.R. (estimated) ..	(a)	(a)	450,000	550,000	600,000	600,000	(a)	(a)	(a)	(a)	(a)	(a)
Yugoslavia ..	61,624	107,400	112,924	98,065	105,529	124,956	29,000	41,000	(a)	(a)	(a)	(a)
Egypt ..	188	49	—	—	—	78	80	20	—	—	—	—
Cuba ..	114,782	95,830	64,780	77,812	60,832	68,933	(a)	(a)	(a)	(a)	(a)	(a)
Guatemala ..	467	300	142	1,120	60	(a)	230	(a)	(a)	(a)	(a)	(a)
United States ..	3,231	387	361	6,300	19,021	52,515	1,600	180	150	3,100	9,000	21,500
Brazil ..	(c) 1,600	(c) 3	3,176	2,378	2,607	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Japan ..	9,194	26,682	32,438	40,302	46,406	36,981	3,850	9,800	11,900	14,400	16,400	13,000
Philippine Republic ..	252,796	242,847	246,555	329,287	534,930	548,292	113,000	102,000	108,000	147,000	239,000	241,000
Turkey ..	281,812	445,382	415,030	588,343	763,065	637,581	135,000	214,000	199,000	282,000	366,000	306,000
New Caledonia ..	73,834	87,585	83,462	87,390	105,960	119,672	38,400	45,600	43,400	45,400	55,100	64,000
<b>TOTAL</b> ..	<b>1,250,000</b>	<b>1,370,000</b>	<b>1,420,000</b>	<b>1,800,000</b>	<b>2,270,000</b>	<b>2,230,000</b>						
<b>World's Total</b> ..	<b>1,943,000</b>	<b>2,080,000</b>	<b>2,255,000</b>	<b>2,700,000</b>	<b>3,250,000</b>	<b>3,480,000</b>						

\*Only approximate estimates can be given owing to the wide variation in the chromium content of the ore produced in several of the countries concerned.

(a) Information not available.

(b) Figures relate to saleable production.

(c) Exports.

EXPORTS OF CHROME ORE, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Chromium metal .. .. .	83	128	161	86	331	275
Ferro-chrome .. .. .	21	29	(a)	(a)	(a)	(a)
Chromates of potash .. ..	424	697	653	200	454	361
Chromates of soda .. .. .	1,232	1,599	2,057	1,964	1,467	1,422
Sierra Leone—						
Ore .. .. .	8,411	17,656	13,909	11,930	23,970	26,096
Southern Rhodesia—						
Ore .. .. .	222,454	202,468	237,976	300,593	263,496	422,827
Union of South Africa—						
Ore .. .. .	287,362	303,890	483,923	494,195	400,904	485,345
Canada—						
Ferro-chrome .. .. .	20,103	16,204	29,389	39,046	39,545	30,200
Cyprus—						
Ore and concentrates .. ..	6,790	14,640	18,150	12,453	13,274	7,277
India (b)—						
Ore .. .. .	9,250	6,382	3,864	8,113	(d) 8,936	(d) 15,357
Pakistan—						
Ore .. .. .	(a)	(a)	12,154	19,351	16,400	19,853
Australia—						
Ore .. .. .	2	—	—	—	—	—
<b>FOREIGN COUNTRIES</b>						
Belgium-Luxemburg						
E.U.—						
Chromates of potash and soda .. .. .	215	144	391	712	132	97
France—						
Ferro-chrome .. .. .	25	172	2,370	4,338	4,599	6,232
Chromates, chrome alum, etc. .. .. .	303	1,814	786	930	797	276
Germany (Federal)						
Chromates of potash and soda, and oxides of chromium .. .. .	295	1,905	5,030	3,208	(a)	(a)
Greece—						
Ore .. .. .	984	—	9,389	23,414	29,677	27,506
Italy—						
Ferro-chrome .. .. .	—	20	195	528	200	67
Chromates and bichromates .. .. .	(a)	(a)	(c) 197	1,577	345	448
Netherlands—						
Chromium compounds	12	16	32	35	—	6
Norway—						
Ferro-chrome .. .. .	15,464	14,559	16,152	21,624	19,414	14,293
Portugal—						
Ore .. .. .	49	786	689	—	—	—
Sweden—						
Ore .. .. .	—	—	—	15	—	—
Ferro-chrome .. .. .	271	1,079	4,624	5,150	6,488	5,694
Chromates and chrome alum .. .. .	2,478	1,168	1,615	1,736	664	882

(a) Information not available.

(b) Including chrome ore mined in British India, but exported via the Portuguese port of Mormugao as follows: 1948—4,773 tons, 1949—610 tons, 1950—1,100 tons, 1951—Nil, 1952—(a), 1953—(a).

(c) July to December only.

(d) Sea-borne trade only.

EXPORTS OF CHROME ORE, ETC. (cont.)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
Switzerland—						
Ferro-chrome, including ferro-silicon .. ..	1,728	1,569	1,289	3,724	3,235	1,369
U.S.S.R.—						
Ore (b) .. ..	357,906	102,758	71,959	20,957	10,226	21,472
Yugoslavia—						
Ore .. ..	(a)	(a)	39,677	52,113	50,388	54,039
Cuba—						
Ore .. ..	160,446	72,383	115,505	89,568	83,963	75,000
United States—						
Ore .. ..	2,584	2,127	1,825	1,813	1,367	1,041
Ferro-chrome .. ..	6,030	1,964	309	214	1,138	542
Chromates of potash .. ..	1,147	1,270	372	1,611	706	172
Chromates of soda .. ..	5,405	5,100	1,828	7,862	2,930	2,142
Brazil—						
Ore .. ..	1,600	3	(a)	(a)	(a)	—
Japan—						
Ferro-chrome .. ..	(a)	(a)	1,319	251	14	49
Bichromates .. ..	(a)	(a)	85	440	7	810
Philippine Republic—						
Ore .. ..	238,158	231,441	245,977	336,656	480,437	436,223
Turkey—						
Ore .. ..	304,716	347,667	348,018	496,639	616,514	667,742
New Caledonia—						
Ore .. ..	69,066	101,287	72,799	91,670	101,037	110,379

(a) Information not available.

(b) Exports are not available. Figures are imports as recorded in the trade returns of the United Kingdom, Germany, Sweden and the United States.

IMPORTS OF CHROME ORE, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Ore .. .. .	114,415	131,710	105,879	131,802	167,561	160,375
Chromium metal ..	59	5	—	—	—	1
Ferro-chrome ..	15,773	10,054	12,117	22,279	33,729	16,821
Chromates of potash ..	53	—	—	14	2	25
Chromates of soda ..	108	—	1	88	110	1,281
Canada—						
Ore .. .. .	61,771	59,148	106,540	131,249	132,449	105,439
Bichromate of potash ..	77	143	137	211	170	116
Bichromate of soda ..	2,048	1,400	2,004	3,138	1,655	2,234
India (total imports)—						
Bichromate of potash ..	3	—	—	2	—	—
Bichromate of soda ..	132	2	—	—	—	104
Pakistan (c)—						
Bichromate of potash ..	(a)	(a)	(a)	23	7	27
Bichromate of soda ..	(a)	(a)	(a)	255	257	(a)
Australia—						
Ore .. .. .	2,606	6,848	3,091	3,654	6,243	4,080
Ferro-chrome .. ..	(a)	(a)	495	755	1,514	1,154
Bichromate of potash (d)	5	81	53	26	8	2
Bichromate of soda (d)	2	256	312	124	60	19
New Zealand—						
Bichromate of potash ..	(a)	38	24	40	35	15
Bichromate of soda ..	(a)	103	132	223	142	52
<b>FOREIGN COUNTRIES</b>						
Austria—						
Ore .. .. .	(a)	(a)	(a)	48,183	49,197	59,695
Ferro-chrome .. ..	2,111	3,271	4,686	3,249	3,933	3,391
Chromates .. .. .	225	325	662	393	569	673
Belgium-Luxemburg						
E.U.—						
Ore .. .. .	(a)	1,426	1,036	3,421	2,334	341
Chromates of potash and soda .. ..	258	652	786	813	649	1,229
Czechoslovakia—						
Ore .. .. .	(b) 2,043	(a)	(a)	(a)	(a)	(a)
Chromates of potash and soda .. ..	(b) 711	(a)	(a)	(a)	(a)	(a)
Denmark—						
Chromates of potash and soda .. ..	321	286	233	437	209	188
Finland (total imports)—						
Ferro-chrome .. ..	206	410	410	607	628	715
Chromates of potash and soda .. ..	68	414	224	608	551	353
Chrome sulphate ..	381	271	166	300	98	57
France—						
Ore .. .. .	37,647	46,559	21,218	67,833	82,871	63,362
Ferro-chrome .. ..	659	501	5	1	—	4
Chromates .. .. .	1,125	731	472	2,222	1,022	1,676

(a) Information not available.

(b) January to October only.

(c) Years ended March 31 of that following.

(d) Years ended June 30 of that stated.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
FOREIGN COUNTRIES (cont.)						
Germany (Federal)—						
Ore .. .. .	7,308	49,137	72,788	104,944	103,426	96,870
Italy—						
Ore .. .. .	(a)	(a)	(b) 6,180	17,028	18,465	13,618
Ferro-chrome .. .. .	524	1,534	1,924	907	1,407	2,198
Chromates .. .. .	(a)	(a)	(b) 116	50	564	996
Chrome alum .. .. .	13	55	313	138	74	255
Netherlands—						
Ore .. .. .	(a)	(a)	(a)	189	141	231
Chromium compounds	1,328	1,246	1,375	2,164	1,322	2,077
Norway—						
Ore .. .. .	50,524	39,242	51,634	49,130	49,716	47,317
Portugal—						
Chromates of potash and soda .. .. .	3	5	1	1	46	33
Chrome alum .. .. .	—	3	1	—	7	—
Spain—						
Chromates .. .. .	91	28	228	2	(a)	(a)
Sweden—						
Ore .. .. .	26,273	30,917	54,319	40,843	47,441	56,863
Ferro-chrome .. .. .	2,140	2,255	2,035	2,462	1,612	1,310
Chrome alum .. .. .	10	—	1	—	1	14
Chromates .. .. .	606	598	854	843	1,428	185
Switzerland—						
Ferro-chrome and ferro- silicon .. .. .	4,434	1,321	1,280	8,037	3,070	1,375
Egypt—						
Chromates of potash and soda .. .. .	572	293	(a)	(a)	416	365
Mexico—						
Chromates .. .. .	(a)	—	387	1,442	780	369
United States—						
Ore .. .. .	1,376,853	1,074,920	1,161,087	1,275,911	1,517,944	1,984,600
(Cr <sub>2</sub> O <sub>3</sub> content) .. .. .	607,765	476,420	517,305	545,300	636,272	839,888
Ferro-chrome (Cr content) .. .. .	4,209	3,515	11,375	14,671	10,808	18,396
Metal and alloys .. .. .	—	—	53	83	135	158
Argentina—						
Bichromate of potash ..	(a)	(a)	(a)	(a)	351	46
Bichromate of soda ..	(a)	(a)	(a)	(a)	1,095	551
Chromate of lead .. ..	(a)	(a)	(a)	(a)	1	—
Chrome alum .. .. .	(a)	(a)	(a)	(a)	119	20
Brazil—						
Chromates of potash and soda .. .. .	500	1,571	(a)	318	1,362	(a)
Other chromium salts	50	109	(a)	25	8	(a)
Chile—						
Ferro-chrome .. .. .	—	(a)	(a)	(a)	(a)	(a)
Peru—						
Chromium compounds	(a)	108	54	151	127	(a)
Japan—						
Ore .. .. .	(a)	(a)	6,986	27,902	13,282	19,789
Turkey—						
Chromates .. .. .	43	89	89	59	90	(a)
Chrome alum .. .. .	25	14	26	53	58	(a)

(a) Information not available.

(b) July to December only.



# COAL, COKE AND BY-PRODUCTS

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

(Long tons)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
<b>Great Britain—</b>						
<b>Mined—</b>						
Anthracite .. .. .	3,794,100	3,724,200	3,654,900	3,731,500	3,707,800	3,672,200
Bituminous .. .. .	193,851,600	198,964,500	200,484,500	208,151,100	210,615,900	208,818,400
Opencast (b) .. .. .	11,782,200	12,482,100	12,185,400	11,009,800	12,167,100	11,704,100
<b>Northern Ireland—</b>						
Bituminous .. .. .	1,420	650	570	1,296	890	2,180
Lignite .. .. .	70	—	—	—	—	—
Nigeria .. .. .	607,757	550,517	583,238	550,281	581,048	700,264
Southern Rhodesia .. .. .	1,668,454	1,887,513	2,094,501	2,263,794	2,518,947	2,577,172
Union of South Africa .. .. .	23,645,052	25,093,379	26,055,179	26,211,876	27,621,036	28,009,840
<b>Canada—</b>						
Bituminous .. .. .	12,206,893	12,613,095	12,155,639	11,931,686	11,320,895	10,245,468
Sub-bituminous .. .. .	2,847,140	2,788,297	2,965,690	2,678,587	2,514,406	2,142,834
Lignite .. .. .	1,418,904	1,670,078	1,967,163	1,985,105	1,860,237	1,804,729
India .. .. .	30,124,175	31,695,375	32,307,481	34,432,396	36,303,589	35,979,167
Pakistan .. .. .	240,077	331,964	435,149	504,703	600,026	583,727
Malaya .. .. .	375,460	385,502	415,777	382,539	314,922	286,364
<b>Australia—</b>						
Bituminous (c) .. .. .	14,783,031	14,107,442	16,548,377	16,112,041	17,796,168	16,849,241
Sub-bituminous .. .. .				1,496,387	1,608,930	1,563,567
Lignite .. .. .	6,692,413	7,375,559	7,327,119	7,836,056	8,103,764	8,257,299
<b>New Zealand—</b>						
Anthracite .. .. .	1,705	1,885	1,959	672	808	1,944
Bituminous .. .. .	950,901	934,802	919,029	677,258	860,898	772,242
Sub-bituminous .. .. .	1,508,045	1,577,908	1,468,397	1,470,465	1,658,353	1,543,492
Lignite .. .. .	315,195	298,680	280,066	287,110	229,749	201,037
<b>TOTAL .. .. .</b>	<b>306,786,000</b>	<b>316,470,000</b>	<b>321,850,000</b>	<b>331,714,000</b>	<b>340,385,000</b>	<b>335,715,000</b>
<b>Irish Republic—</b>						
Anthracite .. .. .	39,197	28,465	47,522	54,799	51,536	71,724
do. dust .. .. .	48,033	19,213	49,250	49,679	56,836	41,440
Semi-bituminous .. .. .	81,956	65,556	53,460	53,329	41,989	37,132
Other .. .. .		13,369	18,945	18,449	12,717	13,704

(a) Information not available.

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

1948—Anthracite	223,200,	Bituminous	11,559,300
1949—	610,800	”	11,871,300
1950—	902,300	”	11,283,100
1951—	617,600	”	10,392,000
1952—	475,700	”	11,691,400
1953—	527,800	”	11,176,300

(c) Including semi-anthracite.

## PRODUCTION OF COAL (cont.)

Producing Country	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
Albania—						
Lignite (estimated) ..	16,000	16,000	16,000	16,000	16,000	16,000
Austria—						
Bituminous .. ..	177,674	180,166	180,053	192,581	187,323	159,014
Brown coal .. ..	3,285,184	3,755,635	4,239,706	4,909,890	5,097,162	5,486,021
Belgium .. ..	26,269,581	27,414,085	26,889,325	29,182,900	29,904,481	29,585,530
Bulgaria—						
Anthracite (estimated)	(b)	} 4,647,746	5,621,449	6,021,387	7,293,400	8,284,000
Bituminous (estimated)	295,487					
Lignite .. ..	(c) 3,514,141					
Czechoslovakia—						
Bituminous .. ..	17,465,474	16,879,000	18,159,000	18,010,000	19,800,000	20,020,000
Brown coal .. ..	23,217,014	25,983,000	27,072,000	30,500,000	32,000,000	32,250,000
Denmark—						
Lignite .. ..	2,362,000	1,575,000	758,000	1,557,000	1,255,000	(a)
France—						
Anthracite (e) .. ..	515,410	} 50,395,681	50,032,260	52,135,000	54,491,000	51,757,000
Bituminous .. ..	42,094,665					
Lignite .. ..	1,812,655					
Germany—						
Federal Republic—						
Bituminous .. ..	87,020,000	103,155,000	110,542,800	118,776,000	123,089,000	124,163,000
Brown coal .. ..	63,949,000	71,085,000	74,643,000	81,808,000	82,049,000	83,219,000
East Germany—						
Bituminous .. ..	2,803,000	2,971,000	2,763,000	3,363,000	3,469,000	(d) 3,500,000
Brown coal .. ..	109,100,000	122,000,000	136,100,000	151,200,000	157,800,000	173,500,000
Greece—						
Lignite .. ..	124,600	177,000	157,000	188,000	212,000	437,464
Hungary—						
Bituminous .. ..	1,206,000	1,360,000	} 13,100,000	15,000,000	18,500,000	21,000,000
Brown coal and lignite	9,229,000	10,271,000				
Italy—						
Anthracite .. ..	85,186	74,064	67,537	80,762	80,326	67,083
Bituminous .. ..	871,983	1,012,669	947,012	1,067,803	991,687	1,046,199
Brown coal .. ..	886,646	849,590	768,479	864,764	828,469	759,185
Netherlands—						
Bituminous .. ..	10,858,086	11,520,099	12,053,935	12,227,944	12,334,371	12,103,000
Brown coal .. ..	274,554	195,278	191,011	245,122	231,208	248,495
Poland—						
Bituminous .. ..	69,152,000	73,306,000	76,769,000	d80,697,000	d83,103,000	d87,197,000
Brown coal .. ..	4,960,000	4,554,000	4,764,000	5,800,000	6,100,000	(d) 5,200,000
Portugal—						
Anthracite .. ..	380,661	436,458	412,208	410,225	435,081	470,766
Brown coal .. ..	101,622	113,006	92,107	83,799	75,627	70,275
Roumania—						
Anthracite .. ..	} 200,000	200,000	300,000	300,000	} 4,200,000	6,000,000
Bituminous .. ..						
Brown coal .. ..						
Lignite .. ..		2,200,000				
Saar .. ..	12,368,800	14,038,000	14,853,000	16,027,000	15,979,000	16,160,000
Spain—						
Anthracite .. ..	1,439,634	1,416,487	1,480,368	1,575,618	1,807,414	1,913,000
Bituminous .. ..	9,019,408	9,244,921	9,461,785	9,795,249	10,262,853	10,051,000
Lignite .. ..	1,378,062	1,311,135	1,294,892	1,473,434	1,574,742	1,760,000
Spitzbergen—						
Norwegian mines ..	429,242	449,332	358,158	462,571	446,242	419,764
Russian mines .. ..	80,000	121,000	(f) 183,705	(f) 244,862	(f) 248,895	(a)

(a) Information not available.

(b) Included with Lignite.

(c) Including Anthracite.

(d) Estimated.

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

(f) Exports.

PRODUCTION OF COAL (cont.)

Producing Country	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b> (cont.)						
Sweden .. .. .	368,532	311,612	304,411	274,364	341,515	280,152
U.S.S.R. (b) .. .. .	203,700,000	230,000,000	256,000,000	280,000,000	300,000,000	316,000,000
Yugoslavia—						
Bituminous .. .. .	957,000	1,268,000	1,136,000	976,000	995,000	910,000
Brown coal and lignite	9,597,000	10,661,000	11,527,000	10,875,000	10,912,000	10,158,000
Algeria—						
Bituminous .. .. .	219,070	261,000	253,700	242,700	265,122	289,906
Belgian Congo .. .. .	115,638	149,964	157,441	214,459	248,891	310,220
Madagascar .. .. .	—	16	1,870	5,380	3,504	4,493
Morocco (French)—						
Anthracite .. .. .	285,700	336,025	362,058	387,730	452,700	556,100
Mozambique .. .. .	8,938	12,899	55,087	87,554	113,143	159,120
Tunis—						
Lignite .. .. .	69,283	46,500	40,500	8,040	—	—
Greenland .. .. .	8,000	7,000	8,000	7,000	8,000	7,000
Mexico .. .. .	1,040,528	1,012,000	927,000	1,087,000	1,296,069	
United States—						
Anthracite .. .. .	51,017,811	38,126,539	39,354,199	38,098,212	36,234,427	27,633,171
Bituminous .. .. .	532,528,877	388,192,773	457,983,113	473,547,882	414,128,109	402,862,000
Lignite .. .. .	2,755,255	2,760,830	3,008,898	2,938,486	2,694,018	2,496,000
Argentina .. .. .	17,200	17,600	25,700	38,900	111,000	118,000
Brazil .. .. .	1,993,007	2,100,147	1,951,743	1,918,759	1,930,321	1,997,687
Chile—						
Bituminous .. .. .	2,198,774	2,043,892	2,146,478	2,176,371	2,411,378	2,299,077
Colombia .. .. .	506,000	492,000	(a)	(a)	(b)1,000,000	1,206,000
Peru—						
Anthracite .. .. .	41,620	27,552	32,384	62,755	78,421	(b) 70,000
Bituminous .. .. .	140,797	139,454	160,133	120,032	143,387	(b) 151,000
Venezuela .. .. .	20,291	23,403	24,985	27,100	24,796	28,979
Afghanistan .. .. .	(a)	(a)	(a)	13,306	(a)	(a)
China (c) .. .. .	18,000,000	16,000,000	b29,000,000	b38,000,000	b47,000,000	b50,000,000
Formosa .. .. .	(b)1,500,000	1,623,000	1,412,000	1,631,000	2,250,000	2,354,000
French Indo-China—						
Anthracite .. .. .	349,413	370,274	486,607	632,100	824,568	819,057
Indonesia .. .. .	531,241	651,990	791,730	854,012	943,556	883,159
Iran (b) .. .. .	150,000	200,000	250,000	250,000	250,000	250,000
Japan—						
Anthracite .. .. .	839,000	768,000	674,000	933,000	992,000	1,075,000
Bituminous .. .. .	32,491,000	36,695,000	37,179,000	41,703,000	41,679,000	44,714,000
Lignite .. .. .	2,512,000	2,055,000	1,264,000	1,382,000	1,515,128	1,462,322
Korea (South)—						
Anthracite .. .. .	703,300	965,400	554,900	232,700	566,808	852,749
Lignite .. .. .	67,000	62,500	23,000	3,100	2,219	263
Lebanon—						
Lignite .. .. .	354	(a)	(a)	(a)	(a)	(a)
Philippine Republic .. .. .	86,361	121,388	156,314	148,311	137,238	152,458
Turkey—						
Bituminous .. .. .	3,959,283	4,116,645	4,291,728	4,654,892	4,769,801	5,067,653
Lignite .. .. .	994,140	1,251,848	1,184,501	1,234,997	1,365,120	1,299,791
<b>TOTAL .. .. .</b>	<b>1,370,000,000</b>	<b>1,300,000,000</b>	<b>1,460,000,000</b>	<b>1,560,000,000</b>	<b>1,550,000,000</b>	<b>1,580,000,000</b>
<b>WORLD'S TOTAL .. .. .</b>	<b>1,698,000,000</b>	<b>1,670,000,000</b>	<b>1,782,000,000</b>	<b>1,892,000,000</b>	<b>1,890,000,000</b>	<b>1,915,000,000</b>

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

(c) United States Bureau of Mines' estimates in 1948 and 1949.  
(d) Revised.

**PRODUCTION OF COKE**  
(Long tons)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
<b>Great Britain—</b>						
Gas-works—coke (b) ..	10,875,800	11,318,900	11,768,200	12,354,300	12,532,100	12,254,000
breeze (b) ..	2,621,200	2,546,700	2,705,000	2,689,400	2,770,500	2,693,900
Coke-ovens—coke ..	15,422,800	15,491,000	15,381,400	16,096,200	17,091,800	17,481,200
breeze ..	858,000	930,400	1,017,000	1,000,700	1,039,900	1,085,300
<b>Northern Ireland—</b>						
Gas-works .. ..	160,000	167,300	164,000	173,700	170,400	169,820
<b>Southern Rhodesia .. ..</b>						
Union of South Africa ..	78,109	79,969	94,357	92,786	108,605	133,462
<b>Canada—</b>						
Gas-works—coke .. ..	236,029	235,254	216,497	212,723	153,366	} 171,249
breeze .. ..	2,326	1,783	1,996	1,691	1,063	
Coke-ovens—coke .. ..	3,067,502	2,989,983	3,103,922	3,072,097	3,236,852	} 3,812,372
breeze .. ..	217,157	223,518	217,474	223,869	230,732	
<b>India—</b>						
Gas-works .. ..	78,337	80,004	75,440	74,606	89,011	98,284
Hard .. ..	1,750,954	2,006,019	2,215,089	2,201,641	2,177,221	2,011,560
Soft .. ..	850,517	1,025,122	1,268,870	1,250,165	1,289,411	1,472,517
<b>Australia (d)—</b>						
Gas-works—coke .. ..	1,170,545	1,181,516	988,336	1,041,715	1,203,602	1,071,106
breeze .. ..	60,556	69,160	75,606	118,231	123,231	62,965
Coke-ovens—coke .. ..	1,384,238	1,150,039	1,164,401	1,586,461	1,636,982	1,858,428
breeze .. ..	111,062	83,439	87,394	108,658	119,288	90,135
<b>New Zealand (e)—</b>						
Gas-works .. ..	94,355	93,419	95,523	69,158	88,533	(a)
<b>Irish Republic—</b>						
Gas-works (c) .. ..	77,867	86,392	83,975	89,902	89,065	88,188
<b>FOREIGN COUNTRIES</b>						
<b>Austria—</b>						
Gas-works .. ..	309,700	555,519	547,520	449,830	447,170	402,467
Coke-ovens .. ..	581,700	844,963	971,705	1,068,540	1,210,285	1,198,236
<b>Belgium—</b>						
Gas-works .. ..	39,400	33,400	27,959	22,569	20,763	19,452
Coke-ovens .. ..	5,540,373	4,955,270	4,525,440	6,000,110	6,306,015	5,853,988
<b>Bulgaria—</b>						
Coke-ovens .. ..	8,341	(a)	(a)	(a)	(a)	(a)
<b>Czechoslovakia—</b>						
Gas-works .. ..	(f)4,542,100	{ (a)	(a)	(a)	(a)	(a)
Coke-ovens .. ..		{ 4,612,000	4,799,000	(a)	(a)	(a)
Denmark (gas-works) (g)	553,200	574,100	(j) 363,300	(j) 401,600	(j) 410,400	(a)
Finland (gas-works) ..	62,961	66,684	66,622	74,806	113,264	117,110
<b>France—</b>						
Gas-works (sales) ..	2,071,800	2,243,300	2,061,100	2,787,000	2,586,000	2,398,000
Coke-ovens .. ..	6,148,199	6,793,603	6,915,490	7,950,000	9,069,000	8,763,000
Semi-coke .. ..	198,787	232,303	248,270	268,000	273,000	263,000
<b>Germany (Federal)—</b>						
Gas-works .. ..	2,211,200	(i)2,661,800	2,094,000	3,242,000	3,350,000	3,967,000
Coke-ovens—Hard coke (i)	19,487,000	24,743,000	26,901,700	33,102,000	36,679,000	37,231,000
do. Brown-coal coke (h)	444,000	594,400	654,300	680,000	690,000	713,000

- (a) Information not available.  
 (b) Excluding coke used for heating retorts.  
 (c) Including coke-breeze.  
 (d) Years ended June 30 of that stated.  
 (e) Sales for years ended March 31 of the year following that stated.  
 (f) January to October only.

- (g) Years ended March 31 of the year following that stated.  
 (h) British and American Zones.  
 (i) Western Zones.  
 (j) Calendar year.

PRODUCTION OF COKE (cont.)

Producing Country	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
Greece (gas-works) ..	11,300	15,300	(a)	30,818	29,707	30,020
Italy—						
Gas-works .. ..	971,515	966,708	1,049,857	1,074,681	1,095,760	1,029,134
Coke-ovens .. ..	1,287,972	1,487,304	1,486,469	2,146,135	2,435,241	2,406,994
Netherlands—						
Gas-works .. ..	988,000	998,600	980,000	943,000	913,000	811,000
Coke-ovens .. ..	2,205,000	2,435,300	2,759,600	2,926,000	3,177,000	3,153,000
Norway (gas-works) ..	58,540	71,198	60,031	60,154	64,270	62,488
Poland—						
Gas-works .. ..	} 5,011,000	5,662,000	5,952,000	6,250,000	7,234,000	7,800,000
Coke-ovens .. ..						
Semi-coke .. ..	84,071	84,079	(a)	(a)	(a)	(a)
Portugal (gas-works)—						
Coke .. ..	23,432	20,096	24,498	26,383	27,784	(a)
Breeze .. ..	6,997	6,775	(a)	(a)	(a)	(a)
Coke dust .. ..	7,165	4,191	(a)	(a)	(a)	(a)
Saar—						
Gas-works .. ..	2,200	2,000	600	—	—	} 3,615,000
Coke-ovens .. ..	2,700,785	3,275,026	3,176,023	3,706,056	3,825,831	
Semi-coke .. ..	47,343	37,413	50,222	85,323	92,105	
Spain—						
Gas-works .. ..	186,900	211,067	197,056	212,783	218,807	218,500
Coke-ovens .. ..	834,976	952,217	931,158	979,136	1,169,871	1,152,500
Sweden (including breeze) ..	685,197	659,471	618,604	557,931	(a)	(a)
Switzerland—						
Gas-works .. ..	400,600	393,700	406,500	459,000	451,000	441,000
Algeria (gas-works) ..	91,546	41,795	75,242	94,815	89,614	92,267
Canary Islands (gas-works) ..	2,029	1,158	1,343	364	(a)	(a)
Tunis (gas-works) ..	10,680	18,448	12,732	12,633	12,331	15,605
United States—						
Coke-ovens—						
Coke .. ..	57,884,486	50,512,936	56,314,174	60,993,882	54,571,748	63,603,534
Breeze and screenings	4,825,671	4,061,587	4,299,431	4,290,490	3,923,677	4,505,913
Coke-ovens (gas-works) ..						
Coke .. ..	3,466,047	3,257,137	3,409,592	3,280,379	2,437,283	2,104,973
Breeze and screenings	361,827	339,383	319,103	286,147	218,617	184,700
Beehive—						
Coke .. ..	5,872,831	3,049,061	5,203,054	6,556,723	3,932,137	4,681,544
Breeze and screenings	96,667	53,120	80,993	78,262	57,376	74,514
Gas-works—						
Coke .. ..	472,655	338,769	155,734	113,070	40,102	211,800
Breeze and screenings	69,479	52,139	22,192	17,326	4,185	2,155
Brazil .. ..	261,556	267,419	282,069	281,000	295,000	327,000
Chile .. ..	123,506	122,468	119,582	117,128	111,211	107,814
Colombia (b) .. ..	2,000	2,000	2,000	2,000	2,000	2,000
Uruguay (gas-works)—						
Coke .. ..	26,271	27,728	32,116	33,408	35,874	35,101
Breeze .. ..	3,483	3,253	4,139	4,926	5,743	5,797
Formosa—						
Gas-works .. ..	(a)	(a)	(a)	(a)	2,275	4,568
Coke-ovens .. ..	(a)	(a)	(a)	149,299	160,521	140,884
Japan—						
Gas-works .. ..	1,064,000	1,287,000	1,311,000	1,661,905	1,853,375	2,107,836
Coke-ovens .. ..	984,000	1,559,000	2,055,000	2,738,209	2,967,068	3,726,254
Beehive, etc. .. ..	921,000	980,000	614,000	1,060,035	962,574	968,444
Turkey—						
Gas-works .. ..	55,137	52,857	54,932	(a)	(a)	(a)
Coke-ovens .. ..	266,210	288,680	299,052	302,990	393,552	540,034
Semi-coke .. ..	65,300	70,221	(a)	(a)	(a)	(a)
Coke dust .. ..	888	(a)	(a)	(a)	(a)	(a)
Korea (South) .. ..	(a)	(a)	4,821	3,246	3,090	1,756

(a) Information not available.

(b) Estimated.

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

PRODUCTION OF BRIQUETTES

(Long tons)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Great Britain .. ..	1,466,100	1,512,000	1,397,000	1,747,000	1,776,000	1,576,000
Canada .. .. .	318,031	452,646	403,742	353,571	634,904	632,583
Australia (b)—						
Brown-coal briquettes..	545,236	558,899	588,564	511,404	568,252	544,973
New Zealand .. .. .	12,906	13,715	11,132	11,078	11,240	11,760
Irish Republic .. ..	6,126	1,823	1,050	2,755	1,317	1,795
<b>FOREIGN COUNTRIES</b>						
Belgium .. .. .	954,857	770,946	1,003,617	1,781,542	1,459,436	1,301,991
Denmark—						
Brown-coal briquettes..	16,282	38,317	19,217	26,902	19,249	(a)
France .. .. .	5,735,974	6,170,954	6,212,006	7,920,000	7,816,000	6,874,000
Germany (Federal)—						
Coal briquettes .. ..	2,925,000	3,529,500	3,662,900	4,039,000	4,883,000	4,822,000
Brown-coal briquettes..	12,694,000	14,024,600	14,676,900	15,672,500	16,144,000	16,317,000
Italy—						
Anthracite briquettes ..	2,982	8,370	2,366	492	—	(a)
Brown-coal briquettes..	1,565	—	—	—	—	(a)
Netherlands—						
Coal briquettes .. ..	921,084	976,134	1,032,524	1,045,571	929,533	890,102
Brown-coal briquettes..	61,993	60,204	55,541	71,358	72,238	82,268
Poland—						
Coal briquettes .. ..	704,520	681,826	619,100	(a)	(a)	(a)
Brown-coal briquettes..	111,839	168,570	166,700	(a)	(a)	(a)
Portugal .. .. .	72,655	70,476	77,952	89,923	92,791	60,774
Spain .. .. .	989,408	1,117,919	1,112,509	1,142,213	1,130,306	1,032,000
Sweden .. .. .	109,571	58,558	3,168	57,006	(a)	(a)
Switzerland (estimated)	100,000	100,000	100,000	100,000	100,000	100,000
Algeria .. .. .	76,591	49,328	64,553	65,765	51,064	39,465
Morocco (French) .. ..	31,234	14,380	34,027	24,364	15,300	17,759
Tunis .. .. .	45,024	43,444	41,481	36,347	14,552	10,979
United States (c) .. ..	2,793,283	2,146,403	2,473,232	2,131,446	2,035,496	1,589,340
Korea (South) .. .. .	(a)	(a)	36,700	27,000	46,400	56,200
Turkey .. .. .	7,205	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

(b) Years ended June 30 of that stated.

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

1948, 140,190; 1949, 112,454; 1950, 121,145; 1951, 106,728; 1952, 85,953; 1953, 71,189.

PRODUCTION OF COAL BY-PRODUCTS\*

(Long tons)

Producing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Great Britain—						
Tar (quantity distilled)	2,447,000	2,481,000	2,530,000	2,700,000	2,710,000	2,710,000
Road tar (incl. refined)	742,000	648,000	616,000	608,000	610,000	593,000
Pitch .. .. .	624,000	643,000	599,000	639,000	646,000	632,000
Motor benzol .. .. .	215,700	230,600	216,900	195,700	225,900	197,600
Other motor spirits, etc.	111,000	134,000	134,300	119,700	117,700	117,700
Other refined light oils	99,100	94,100	116,100	138,800	138,000	171,400
Creosote-pitch mixture	310,000	425,000	580,000	632,000	647,000	664,000
Creosote oil .. .. .	490,500	504,800	452,400	490,500	485,700	542,900
White naphthalene .. .. .	11,800	11,800	12,000	13,200	6,500	7,500
Hot-pressed do. .. .. .	14,000	13,600	13,900	15,400	18,600	18,500
Crude do. .. .. .	13,700	12,200	14,000	12,600	16,900	9,100
Pyridine bases .. .. .	700	700	750	930	840	890
Natural phenol .. .. .	10,000	9,100	11,500	11,200	10,700	11,300
Refined cresylic acid .. .. .	45,600	32,200	45,650	53,600	47,400	46,800
Anthracene 40-50% .. .. .	2,700	2,600	2,550	2,590	2,820	2,480
Ammonium sulphate (b)	901,000	924,500	960,700	968,100	1,015,400	1,047,000
Canada—						
Tar (crude) .. .. .	193,544	194,118	207,325	207,756	210,359	(a)
Tar (refined) .. .. .	12,532	18,169	22,178	22,447	20,394	24,323
Pitch .. .. .	78,227	82,403	101,348	100,126	117,627	118,515
Creosote oils .. .. .	52,592	59,795	55,848	55,841	55,277	65,477
Ammonium sulphate .. .. .	37,168	35,105	36,516	34,001	34,559	(a)
Benzol .. .. .	24,038	26,161	28,748	30,242	32,497	(a)
Ammonia liquor (NH <sub>3</sub> content) .. .. .	622	650	(a)	(a)	(a)	(a)
Toluol, naphthalene, etc. .. .. .	5,670	5,841	6,695	7,177	7,305	(a)
India (coke-ovens)—						
Tar .. .. .	59,183	66,587	80,521	82,909	90,355	86,953
Benzol (crude) .. .. .	4,353	4,070	4,741	4,130	4,951	4,370
Pitch .. .. .	1,299	1,143	971	1,224	1,554	1,200
Naphthalene (crude) .. .. .	120	133	144	205	123	76
Ammonium sulphate .. .. .	16,212	19,328	22,104	25,713	25,699	8,866
Australia (gas-works) (c)—						
Tar (crude) .. .. .	193,853	192,932	178,745	154,430	165,205	209,218
Tar (refined) .. .. .	43,985	40,315	35,324	36,275	35,371	80,505
Tar oils (crude) .. .. .	19,150	15,537	13,772	14,807	16,205	17,497
Ammonia liquor .. .. .	75,756	85,172	80,731	107,740	104,374	99,773
Ammonium sulphate .. .. .	(a)	(a)	760	(a)	(a)	(a)
New Zealand (d)—						
Tar (gas-works) .. .. .	13,223	13,822	13,713	12,058	13,616	(a)
Irish Republic (gas-works)—						
Tar .. .. .	10,276	12,917	14,102	14,405	15,078	15,219
Ammonium sulphate .. .. .	338	312	277	240	241	40
<b>FOREIGN COUNTRIES</b>						
Austria—						
Tar .. .. .	} (e) 21,235	(e) 20,831	{ 27,356	21,341	21,845	21,419
Benzol .. .. .						

\* See page 76 for conversion rates. Some of the products are derived from the crude products shown. Duplication, therefore, is involved in many cases.

(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	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Belgium—</b>						
Tar (crude) .. ..	189,588	178,682	164,273	201,150	210,643	198,469
Benzol, crude .. ..	21,672	38,088	36,213	49,088	54,539	(a)
do. motor .. ..	24,895	20,474	10,052	(a)	20,691	25,958
do. industrial .. ..	10,563	7,082	16,175	28,700	14,829	5,376
Benzene .. ..	5,678	8,716	6,156	15,498	14,597	14,408
Toluol and xylol .. ..	3,128	4,327	3,913	5,524	5,319	6,050
Solvent naphtha .. ..	672	844	814	1,091	689	930
Ammonium sulphate .. ..	66,424	61,513	56,270	(a)	74,516	(a)
Pitch .. ..	(a)	19,067	21,780	25,237	27,404	(a)
<b>Denmark (b)—</b>						
Tar (gas-works) .. ..	36,748	39,370	41,274	44,185	42,116	(a)
Benzol (crude) .. ..	(a)	(a)	(a)	998	880	(a)
<b>Finland—</b>						
<b>Gas-works—</b>						
Tar .. ..	2,744	2,742	2,984	3,583	4,669	4,994
Benzol .. ..	176	161	455	621	575	634
Ammonia .. ..	198	211	228	251	249	315
<b>France—</b>						
Tar (crude) .. ..	428,269	462,570	468,132	532,200	576,970	554,604
Ammonium sulphate .. ..	75,823	86,265	81,566	100,100	97,891	88,873
Benzol (crude) .. ..	60,956	67,823	71,477	89,692	91,337	86,479
Pitch .. ..	139,856	157,282	153,899	(a)	(a)	(a)
Phenol (crude) .. ..	4,992	6,388	6,651	(a)	(a)	(a)
Naphthalene .. ..	27,811	28,309	24,399	(a)	(a)	(a)
<b>Germany (Federal)—</b>						
Tar (crude) .. ..	806,600	1,036,452	1,159,835	1,378,353	1,539,390	1,589,428
Pitch .. ..	409,600	544,929	610,660	707,181	798,420	819,609
Tar oils .. ..	220,000	311,084	350,075	392,406	448,031	462,832
Naphthalene .. ..	(a)	(a)	53,945	55,511	66,538	69,435
Benzol (crude) .. ..	207,900	272,365	309,534	383,174	428,481	437,183
Refined benzols .. ..	189,600	243,814	268,149	344,209	400,413	422,003
Phenol, cresol, etc. .. ..	7,500	7,144	17,067	15,577	15,327	21,621
Anthracene .. ..	(a)	(a)	18,061	26,631	30,251	34,846
<b>Italy—</b>						
Tar .. ..	94,843	106,300	109,862	135,246	144,593	140,268
Ammonium sulphate .. ..	13,675	15,263	15,735	29,665	38,451	(a)
Benzol (crude) .. ..	13,471	14,221	14,852	19,277	21,999	25,488
Naphthalene (crude) .. ..	5,462	5,433	5,925	8,077	5,108	4,186
Distillates .. ..	43,002	44,391	56,589	60,885	72,483	76,336
Benzol (refined) .. ..	9,700	11,304	14,721	16,077	21,256	19,754
Toluol and xylol .. ..	1,911	1,727	2,413	4,523	4,775	6,175
Pitch .. ..	30,504	29,826	38,603	41,829	45,980	50,569
Solvents .. ..	4,686	2,298	3,283	3,576	4,800	5,054
<b>Netherlands—</b>						
Tar (crude) .. ..	135,968	140,040	146,424	150,684	152,984	143,000
<b>Norway—</b>						
Tar (gas-works) .. ..	4,580	4,351	5,682	5,016	6,137	6,111
<b>Poland—</b>						
Tar (crude) .. ..	118,171	} (a)	(a)	(a)	(a)	(a)
Pitch .. ..	19,199					
Ammonium sulphate .. ..	29,707					
Benzol (crude) .. ..	38,712					
<b>Portugal (gas-works)—</b>						
Tar (crude) .. ..	2,058	1,826	2,484	(a)	(a)	(a)
Tar (refined) .. ..	1,341	425	2,938	(a)	(a)	(a)
Benzol .. ..	24	11	144	(a)	(a)	(a)
Phenol .. ..	28	20	176	(a)	(a)	(a)

(a) Information not available.

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



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

Producing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Portugal (gas-works)—</b>						
<i>(cont.)</i>						
Anthracene .. ..	—	—	747	(a)	(a)	(a)
Creosote .. ..	494	153	1,836	(a)	(a)	(a)
Naphthalene (crude) ..	4	3	—	(a)	(a)	(a)
Pitch .. ..	714	190	873	(a)	(a)	(a)
<b>Spain—</b>						
Tar .. ..	34,893	48,787	49,536	52,166	57,658	(a)
Pitch .. ..	10,930	8,551	10,959	10,882	10,060	(a)
Benzol .. ..	6,636	7,101	4,212	10,664	11,339	(a)
Naphthalene .. ..	1,702	1,787	2,321	2,613	2,310	(a)
Ammonium sulphate ..	9,255	10,300	13,566	28,548	89,325	(a)
Creosote .. ..	3,778	2,557	5,443	5,163	5,295	(a)
<b>Sweden—</b>						
Tar (crude) .. ..	33,822	35,745	28,768	28,971	(a)	(a)
Other tar .. ..	28,814	25,727	30,758	31,670	(a)	(a)
Pitch .. ..	1,646	3,439	1,725	2,121	(a)	(a)
Benzol, toluol, etc. ..	4,067	3,825	3,847	3,537	(a)	(a)
Distillates, etc. ..	1,247	2,790	2,345	2,785	(a)	(a)
<b>Switzerland—</b>						
Tar (crude) (gas-works)	(a)	(a)	(a)	24,328	25,085	25,166
<b>Algeria—</b>						
Tar (gas-works) ..	6,214	5,550	5,511	5,669	6,137	5,704
<b>Tunis—</b>						
Tar (gas-works) ..	1,281	1,388	1,392	1,302	1,250	(a)
<b>United States—</b>						
<b>Coke-ovens—</b>						
Tar .. ..	3,157,073	2,873,536	3,161,832	3,398,766	3,008,075	3,541,576
Pitch .. ..	657,960	481,965	639,028	755,746	666,388	786,759
Sulphate equivalent of ammonia produced (b) .. ..	830,083	756,970	825,503	890,869	795,224	933,496
Benzol .. ..	499,996	409,138	514,888	576,164	517,048	591,976
do. motor .. ..	24,232	56,247	20,772	13,720	(c)	3,118
Naphthalene (crude) ..	47,240	31,618	44,522	58,534	47,725	50,418
Toluol and xylol ..	116,776	114,167	126,574	141,825	126,197	150,211
Solvent naphtha ..	18,406	16,016	19,240	19,347	15,003	20,145
Creosote .. ..	138,828	96,740	149,642	170,524	156,438	148,121
Phenol .. ..	3,760	2,818	3,544	3,556	3,429	4,311
Other light products	26,872	23,742	22,727	23,069	20,630	20,325
<b>All sources (c)—</b>						
Coal tar .. ..	3,218,205	2,920,782	3,201,547	3,411,261	3,011,987	(a)
Water gas and oil gas tar .. ..	1,149,701	990,555	1,022,457	572,692	377,274	(a)
Crude light oil (d) ..	890,680	792,390	897,033	979,443	856,447	(a)
Benzol, motor .. ..	28,263	62,798	38,177	13,720	(a)	(a)
do. other .. ..	579,533	444,193	586,743	777,197	767,377	(a)
Toluol .. ..	110,778	109,709	125,533	149,369	134,827	(a)
Xylol .. ..	26,118	26,680	31,163	36,755	33,245	(a)
Solvent naphtha ..	48,077	16,016	19,240	19,346	15,003	(a)
Other light oil derivatives .. ..	60,427	50,760	51,070	43,127	36,923	(a)
Naphthalene (crude) ..	146,230	105,339	128,800	158,813	112,210	(a)
Creosote oil .. ..	575,123	525,437	564,754	597,687	550,484	(a)

(a) Information not available.

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

1948—769,135; 1949—728,244; 1950—755,103; 1951—802,020; 1952—716,440; 1953—844,762.

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

(d) Including some material produced from petroleum.

(e) Included with "Other light products".

PRODUCTION OF COAL BY-PRODUCTS (cont.)

Producing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>United States (cont.)—</b>						
<b>All sources (c)—</b>						
<i>(cont.)</i>						
Coal tar (d) .. ..	42,838	39,534	40,577	37,645	46,564	(a)
Tar, refined (e) ..	91,739	120,312	2,013	206,697	117,594	(a)
Tar, road .. ..	554,081	644,530	644,538	612,598	477,321	(a)
Distillate products,						
others .. ..	93,746	150,802	143,635	161,059	164,036	(a)
Pitch of tar .. ..	1,528,000	1,055,000	1,333,000	1,562,000	1,463,000	(a)
Pitch of tar coke ..	58,000	52,000	57,000	40,000	32,000	(a)
<b>Brazil (b)—</b>						
Tar (crude) .. ..	13,898	(a)	(a)	(a)	(a)	(a)
Road tar .. ..	9,111	(a)	(a)	(a)	(a)	(a)
Benzol, motor .. ..	2,405	(a)	(a)	(a)	(a)	(a)
do. other .. ..	334	(a)	(a)	(a)	(a)	(a)
Toluol and xylo ..	469	(a)	(a)	(a)	(a)	(a)
Solvent naphtha ..	44	(a)	(a)	(a)	(a)	(a)
Naphthalene .. ..	566	(a)	(a)	(a)	(a)	(a)
Creosote oil .. ..	78	(a)	(a)	(a)	(a)	(a)
Ammonium sulphate ..	4,209	(a)	(a)	(a)	(a)	(a)
Pitch .. ..	98	(a)	(a)	(a)	(a)	(a)
Carbolic acid .. ..	301	(a)	(a)	(a)	(a)	(a)
<b>Chile—</b>						
Tar .. ..	16,153	17,006	16,378	17,561	17,397	17,788
<b>Uruguay (gas-works)—</b>						
Tar .. ..	1,806	1,847	2,020	1,979	2,141	2,078
Benzol .. ..	54	56	33	99	95	69
Tar oil .. ..	46	74	127	87	75	91
Pitch .. ..	169	307	422	253	239	242
<b>Japan—</b>						
Tar .. ..	168,051	235,997	288,955	390,513	378,561	426,276
Benzol (crude) .. ..	27,566	45,423	58,757	81,610	74,453	88,720
do. (other) .. ..	14,411	21,826	27,520	38,892	36,896	44,525
Toluol and xylo ..	1,783	3,437	5,031	5,622	5,492	7,937
Solvent naphtha ..	1,878	3,520	4,984	5,374	3,744	4,512
Creosote oil .. ..	47,277	64,544	69,032	82,484	94,484	130,010
Carbolic acid (crude) ..	1,606	2,362	3,260	4,701	4,559	4,736
Pitch .. ..	87,126	119,309	157,658	(a)	(a)	(a)
Naphthalene (crude) ..	7,134	12,118	14,362	18,708	22,369	27,129
do. (refined) .. ..	3,366	5,752	7,228	11,173	11,303	12,436
Anthracene .. ..	1,453	2,575	2,622	3,212	3,118	4,027
Ammonium sulphate ..	18,283	36,105	49,368	68,087	77,170	88,779
<b>Turkey—</b>						
<b>Coke-ovens—</b>						
Tar (crude) .. ..	(a)	(a)	15,405	14,929	(a)	(a)
Benzol (crude) .. ..	(a)	(a)	3,161	4,136	(a)	(a)
Naphthalene (crude) ..	—	—	748	(a)	(a)	(a)
Pitch .. ..	7,636	(a)	(a)	(a)	(a)	(a)
Naphthalene (refined) ..	526	449	340	159	(a)	(a)
<b>Gas-works—</b>						
Tar .. ..	3,127	2,967	2,985	(a)	(a)	(a)

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

(a) Information not available.

(b) Volta Redonda only.

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

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

(e) Used for paints, etc.

EXPORTS OF COAL, COKE AND BY-PRODUCTS\*

(Domestic Produce)

(Long tons)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
<b>United Kingdom—</b>						
<b>Anthracite—</b>						
smalls and graded ..	398,669	606,185	823,628	622,884	773,423	809,829
large .. .. .	133,001	309,404	410,923	296,822	309,543	269,591
other .. .. .	4,478	17,119	32,944	171,489	149,029	191,094
<b>Bituminous—</b>						
smalls and graded ..	5,335,887	6,230,309	5,432,948	1,780,410	4,100,898	6,354,353
unscreened .. .. .	1,524,371	2,065,545	2,076,200	1,239,079	1,874,759	1,673,388
large .. .. .	3,108,931	4,395,078	4,279,327	2,288,274	3,456,920	3,556,436
other .. .. .	(a)	292,276	494,662	1,407,611	1,086,278	1,117,233
<b>Bunkers .. .. .</b>	<b>5,430,574</b>	<b>5,043,692</b>	<b>4,020,158</b>	<b>3,722,969</b>	<b>3,296,202</b>	<b>2,834,974</b>
<b>Coke, gas .. .. .</b>	<b>634,752</b>	<b>795,616</b>	<b>865,630</b>	<b>222,727</b>	<b>507,690</b>	<b>568,175</b>
do. other .. .. .	227,004	873,003	1,339,709	672,810	887,432	858,490
<b>Manufactured fuel ..</b>	<b>199,795</b>	<b>370,995</b>	<b>384,898</b>	<b>427,607</b>	<b>546,660</b>	<b>257,991</b>
Tar .. .. .	160,485	88,094	141,138	74,127	87,276	83,900
Pitch .. .. .	232,196	241,269	282,128	352,109	357,515	265,765
Creosote oil .. ..	170,359	161,173	129,802	122,685	139,313	146,092
Other heavy coal-tar oils	3,250	3,861	3,201	6,473	4,106	3,331
Naphthalene .. ..	3,045	3,512	4,780	1,991	9,316	7,166
<b>Carbolic acid—</b>						
Crude .. .. .	14	6	} 965	233	1,320	8,061
Crystals .. .. .	36	1,563				
Cresylic acid .. ..	11,988	6,756	15,807	17,041	7,794	11,337
Benzol .. .. .	213	90	44,564	163,639	123,742	37,639
Anthracene .. .. .	—	3	1	—	2	(a)
Other coal-tar products	9,340	6,715	(a)	(a)	(a)	(a)
<b>Gibraltar—</b>						
Coal (bunkers) (b) ..	280,000	290,000	200,000	170,000	70,000	41,000
<b>Malta—</b>						
Coal (bunkers on merchant ships) (b) ..	8,717	2,888	1,853	1,445	1,033	762
<b>Kenya—</b>						
Coal (bunkers) (b) ..	24,141	27,688	18,076	2,949	1,305	—
<b>Mauritius—</b>						
Coal (bunkers) (b) ..	10,206	7,295	5,342	4,852	4,786	3,193
<b>Nigeria—</b>						
Coal .. .. .	83,120	63,332	1,480	89,872	1,132	4,338
do. (bunkers) .. ..	14,186	(a)	1,238	8,733	340	733
<b>Sierra Leone—</b>						
Coal (bunkers) (b) ..	45,433	33,571	18,491	(a)	—	—
<b>Southern Rhodesia—</b>						
Coal .. .. .	704,595	728,547	784,478	877,776	956,091	872,657
Coke .. .. .	62,397	47,622	53,996	58,736	69,024	79,179
<b>Union of South Africa—</b>						
Coal .. .. .	1,689,238	1,824,716	2,527,299	1,688,834	832,438	1,181,510
do. (bunkers) .. ..	560,678	580,432	372,504	239,628	153,239	77,686
Coke .. .. .	11,462	14,443	42,401	41,410	42,906	13,181
Tar and pitch .. ..	5,742	2,891	2,766	2,856	2,995	(a)
<b>Canada—</b>						
Coal .. .. .	1,127,631	379,468	340,071	374,983	335,046	216,054
do. (bunkers) (c) ..	105,885	107,029	85,871	93,053	71,546	58,613
do. do. (d) .. .. .	365,705	321,379	261,720	246,771	292,872	325,326
Lignite .. .. .	9,210	6,285	12,573	13,484	12,239	11,870
Coke .. .. .	149,374	243,850	308,071	144,377	270,503	145,206
Tar and pitch .. ..	344	18	14	3,185	3,390	4,644
Creosote oil .. .. .	3	—	41	32	8,397	—
Other coal tar oils ..	18,804	19,854	14,940	11,252	13,534	12,726

\*For Ammonium sulphate, etc. see Nitrogen Compounds, pages 207-209.

(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	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
<i>(cont.)</i>						
<b>British West Indies—</b>						
<b>Bermuda—</b>						
Coal (bunkers) (c) ..	3,425	1,240	900	(a)	(a)	800
<b>British Guiana—</b>						
Coal (bunkers) (c) ..	—	3	3	10	6	—
<b>Jamaica—</b>						
Coal (bunkers) (b) ..	34,966	38,732	14,973	20,819	5,407	7,827
<b>Trinidad and Tobago—</b>						
Coal (bunkers) (c) ..	55,742	33,483	18,482	16,769	18,736	10,406
<b>Aden—</b>						
Coal (bunkers) (c) ..	193,397	202,488	130,794	88,516	55,528	35,219
<b>India—</b>						
Coal (by sea) .. ..	934,521	1,360,315	910,645	1,878,834	2,488,294	1,271,399
do. (by land) (e) ..	(a)	(a)	(a)	407,316	586,949	736,425
do. (bunkers— domestic produce)	382,122	410,861	231,257	291,685	286,329	163,671
do. (bunkers— foreign produce) ..	—	—	—	—	515	450
<b>Coke (by sea) .. ..</b>						
do. (by land) (e) ..	13,767	2,304	7,699	22,937	59,030	10,364
do. (by land) (e) ..	(a)	(a)	(a)	250	10,100	17,834
<b>Malaya (including re-exports)—</b>						
Coal .. .. .	323	105	1	1,209	357	259
do. (bunkers) (c) ..	71,974	66,307	44,286	37,297	32,593	14,549
Coke .. .. .	351	348	273	658	316	185
Tar .. .. .	272	247	254	1,222	270	167
<b>Ceylon—</b>						
Coal (bunkers) (c) ..	112,400	109,111	80,644	68,803	32,859	21,985
<b>Cyprus—</b>						
Coal (bunkers) (c) ..	638	560	225	329	295	1
<b>Hong Kong (re-exports)—</b>						
Coal .. .. .	2,768	19,406	53,107	10,974	4,468	8,365
Coke .. .. .	1,361	356	398	431	74	119
<b>Australia—</b>						
Coal .. .. .	49,904	48,247	67,391	110,043	176,828	376,779
do. (bunkers) (d) ..	283,354	293,707	135,059	69,299	54,207	42,623
Coke .. .. .	5,348	2,523	2,920	741	7,432	25,929
Carbolic acid (d) ..	23	353	652	403	651	44
Other coal tar oils ..	(d) 2,746	3,579	2,460	3,255	2,911	2,349
<b>New Zealand—</b>						
Coal .. .. .	2,420	7,032	2,983	3,176	8,730	16
do. (bunkers) .. ..	16,493	14,543	2,083	2,889	5,975	1,649
Coke .. .. .	19	323	1,134	292	344	21
Tar .. .. .	17	13	138	59	6	3
<b>Irish Republic—</b>						
Coal (bunkers) (c) ..	3,711	1,843	1,042	399	164	238
Coal and coke .. ..	1,454	—	—	—	—	13,219
Creosote, etc. .. ..	—	—	450	1,976	1,140	142
<b>FOREIGN COUNTRIES</b>						
<b>Austria—</b>						
Bituminous .. .. .	(a)	(a)	—	11	650	—
Brown coal .. .. .	(a)	(a)	1,084	2,207	64	4,924
Coke .. .. .	18,663	14,586	15,944	168	—	—
Tar .. .. .	—	—	8,302	2,250	7,558	2,236
Naphthalene .. .. .	(a)	976	1,318	1,756	657	1,997
Carbolic acid .. ..	(a)	(a)	(a)	(a)	1,432	1,630

(a) Information not available.

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

(c) Foreign coal (*see* imports).

(d) Years ended June 30 of that stated.

(e) Years ended March 31 of that following.

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

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Austria (cont.)—</b>						
Light tar oils .. ..	—	—	—	—	3,942	—
Heavy tar oils .. ..	—	—	—	—	189	—
Pitch .. ..	—	—	—	—	5,252	4,223
<b>Belgium-Luxemburg</b>						
<b>E. U.—</b>						
Coal .. ..	606,776	1,262,332	2,727,791	1,861,427	2,390,310	3,959,456
do. (bunkers) (b) ..	163,999	80,823	(a)	(a)	(a)	(a)
Coke .. ..	692,408	392,126	334,631	348,915	840,964	724,582
Briquettes .. ..	45,440	12,648	15,126	273,945	290,201	266,886
Brown coal briquettes	261	46	—	—	20	40
Tar .. ..	1,573	4,758	5,064	1,592	332	826
Naphthalene .. ..	8,659	5,739	9,109	9,870	11,440	11,564
Distillates .. ..	2,265	3,019	20,176	27,314	26,016	10,146
<b>Czechoslovakia—</b>						
Coal .. ..	(c) 438,250	}	(a)	(a)	(a)	(a)
Brown coal .. ..	(c) 942,665					
Coke .. ..	(c) 840,114					
Briquettes .. ..	(c) 20					
Tar and pitch .. ..	(c) 19,412					
Benzol, etc. .. ..	(c) 2,830					
Crude naphthalene ..	(c) 5,794					
Crude carbolic acid ..	(c) 3,261					
Cresol .. ..	(c) 418					
Creolin, etc. .. ..	(c) 1,498					
<b>Denmark—</b>						
Tar and pitch .. ..	24	124	6,486	5,691	11,785	22,696
<b>France—</b>						
Anthracite .. ..	14,570	9,959	16,554	17,211	3,790	1,726
Bituminous .. ..	3,430,876	5,248,884	6,167,968	5,816,503	5,491,531	7,014,838
Brown coal .. ..	1,061	381	253	2,526	1,277	1,284
Coke .. ..	419,514	404,811	277,346	254,439	151,621	236,926
Briquettes .. ..	12,698	25,082	47,265	70,833	54,981	30,236
Brown coal briquettes	2,058	718	2,289	5,268	1,236	322
<b>Coal, coke and briquettes—</b>						
<b>Bunkers (domestic produce) .. ..</b>						
do. (foreign produce)	95,346	38,043	24,314	53,385	18,047	15,808
Tar and pitch .. ..	361,709	352,912	258,088	184,083	137,635	78,448
Benzol, etc. .. ..	25,051	5,500	3,901	33,159	4,903	2,521
Naphthalene .. ..	2,696	320	1,542	10,055	18,559	15,566
Carbolic acid .. ..	1,025	2,178	10,101	8,264	10,545	9,650
Carbolineum .. ..	5	155	358	272	129	361
Anthracene .. ..	265	292	491	420	420	354
Coal tar oils .. ..	1	1	206	258	203	390
Coal tar oils .. ..	531	244	931	15,208	22,674	12,825
<b>Germany (Federal)—</b>						
Coal .. ..	9,173,908	12,654,798	15,144,844	12,856,466	11,877,025	13,391,354
do. (bunkers) (b) ..	129,674	326,037	346,182	351,720	359,454	189,965
Coke .. ..	6,736,716	7,663,176	8,018,510	9,734,545	10,474,924	8,959,411
Coal briquettes .. ..	123,036	98,492	244,842	241,086	262,915	363,053
Brown-coal briquettes	1,528,237	1,575,199	1,565,681	1,573,720	1,465,537	1,518,457
Tar and pitch .. ..	390	34,123	107,453	132,076	164,052	129,570
Naphthalene .. ..	3,349	7,040	30,302	15,881	20,774	26,688
Carbolic acid .. ..	—	124	1,599	178	353	476
Cresol .. ..	1	103	2,831	(d) 1,249	(a)	(a)
Light coal-tar oils, etc.	3,152	792	1,092	14,394	2,405	15,769
Heavy coal-tar oils, etc.	17,299	18,430	86,630	75,675	106,219	114,612

(a) Information not available.

(b) Bunkers for foreign ships only.

(c) January to October only.

(d) January to September only.

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

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Italy—</b>						
Coal (incl. bunkers) ..	7,130	8,149	3,167	2,495	3,799	2,573
Coke ..	50,413	116,846	58,983	14,839	222,635	101,104
Tar and tar oils ..	2	4,004	821	198	4	762
Pitch ..	(a)	(a)	(d) 8,384	20,394	21,714	17,922
Naphthalene ..	—	—	2	102	3	149
<b>Netherlands—</b>						
Coal ..	35,173	17,903	22,550	11,607	16,053	291,107
do. (bunkers) (b) ..	255,415	326,771	371,147	342,807	261,980	195,136
Brown coal ..	35,685	2,772	266	23,074	11,306	1,681
Coke ..	881,927	941,912	1,093,039	1,177,088	1,376,333	1,260,529
Briquettes ..	439	—	317	355	241	17,981
Brown coal briquettes ..	4,390	5,620	9,894	10,989	25,830	59,217
Tar ..	677	1,486	1,685	1,039	467	305
Creosote ..	17,791	(a)	29,423	26,865	36,881	31,875
Naphthalene ..	5,320	8,286	7,865	8,515	5,201	11,170
Anthracene ..	1,175	1,115	1,799	3,871	3,386	3,296
Carbolic acid ..	—	—	1,549	1,947	1,537	2,638
Benzol ..	11,782	16,900	13,813	12,981	14,664	21,097
Toluol and xylol ..	394	—	727	22	1,690	124
Solvent naphtha ..	35	9	101	195	380	336
<b>Norway—</b>						
Coal ..	4,951	—	14	(a)	(a)	(a)
Tar ..	1	—	—	1,279	1,441	781
Pitch ..	5	19	191	268	356	615
<b>Poland—</b>						
Bituminous ..	24,361,553	}	(a)	(a)	(a)	(a)
Brown coal ..	4,193,280					
Coal (bunkers) (c) ..	563,560					
Coke ..	1,542,382					
Briquettes ..	1,674					
Naphthalene ..	3,393					
Benzol ..	10,386					
<b>Portugal—</b>						
Coal ..	116	1,227	152	589	476	302
do. (bunkers) (c) ..	21,541	15,364	8,266	6,784	2,835	1,966
Tar and pitch ..	97	194	76	150	172	101
<b>Spain—</b>						
Anthracite ..	7,878	3,407	21,234	14,763	20,237	(a)
Bituminous (incl. bunkers) ..	84,048	16,952	40,449	96,766	88,680	86,000
Other coal ..	443	—	858	37	18	(a)
Coke ..	733	858	1,206	381	484	—
Briquettes ..	—	—	59	695	261	—
Carbolic acid, naphthalene, etc. ..	97	171	62	72	82	(a)
Tar and pitch ..	6	27	119	28	11	(a)
<b>Spitzbergen—</b>						
Coal (including bunkers)	413,686	522,922	505,544	707,877	702,654	(a)
<b>Sweden—</b>						
Coal ..	—	—	30	43	47	57
Coke ..	—	—	26,469	1,373	452	30,315
Tar, pitch, etc. ..	10,893	4,690	18,301	9,512	9,921	6,356
Benzol ..	1,550	106	2,595	979	372	803
Carbolic acid, etc. ..	5	—	—	1	6	56
Toluol and xylol ..	113	237	4,958	1,609	1,705	1,093
<b>Switzerland—</b>						
Coal ..	34	334	322	217	1	2,783
Coke ..	—	976	25	—	788	2,230
Briquettes ..	309	197	546	573	1,107	219

(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	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
Switzerland <i>(cont.)</i> —						
Tar and pitch .. ..	5,098	4,679	2,561	2,391	2,176	4,517
Creosote, etc. .. ..	991	976	55	801	—	679
Naphthalene, etc. ..	1,129	1,295	3,016	2,978	733	1,421
Yugoslavia—						
Bituminous .. ..	(a)	(a)	104,077	60,429	60,169	90,823
Brown coal .. ..	(a)	(a)	26,204	186,582	93,237	49,034
Lignite .. ..	(a)	(a)	—	1,823	509	3,778
Algeria—						
Coal .. ..	30,019	40,873	44,407	78,077	73,318	89,756
do. (bunkers) .. ..	68	482	176	1,181	214	86
do. do. (b) .. ..	51,435	60,435	(a)	114,518	64,218	37,896
Coke .. ..	—	90	10	74	64	285
Briquettes .. ..	98	—	—	9	—	—
do. (bunkers) (b) ..	163	400	21	307	75	24
Tar .. ..	524	853	—	159	407	346
Canary Islands—						
Coal .. ..	1	2,143	41	—	15	(a)
do. (bunkers) (b) ..	78,776	87,847	61,831	49,497	30,378	(a)
Ceuta—						
Coal .. ..	8,179	1,388	3,314	2,328	2,813	(a)
do. (bunkers) (b) ..	112,247	127,371	147,240	80,505	60,279	(a)
Egypt—						
Coal (bunkers for foreign ships) (b) ..	69,437	53,347	37,332	28,837	7,596	(a)
Coke .. ..	1	3	—	99	—	1
Tar and Pitch .. ..	5	15	—	2	108	(a)
Madagascar—						
Coal (bunkers) .. ..	3,289	56	3,142	88	—	—
Morocco (French)—						
Anthracite .. ..	127,745	153,222	144,512	234,369	195,963	161,331
Other coal .. ..	(a)	454	—	(a)	—	(a)
Briquettes .. ..	7,236	3,896	2,590	(a)	18,932	(a)
Mozambique—						
Coal (incl. bunkers) ..	8,184	3,096	5,834	24,707	27,565	(a)
Mexico—						
Coal and coke .. ..	327	342	173	130	211	1
Tar .. ..	—	—	4,181	1,571	440	—
Creosote .. ..	—	—	224	—	(a)	(a)
United States—						
Anthracite .. ..	5,960,638	4,413,098	3,474,615	5,320,692	4,100,054	2,432,404
Bituminous .. ..	41,009,047	24,858,979	22,739,646	50,648,353	42,532,919	30,143,092
do. (bunkers) .. ..	943,855	780,383	640,614	794,693	649,107	(a)
Coke .. ..	630,527	489,514	355,220	916,723	707,259	464,511
Briquettes .. ..	185,612	149,232	156,936	150,696	118,559	91,888
Tar and pitch .. ..	159,124	149,762	49,646	76,867	70,182	58,281
Benzol .. ..	5,760	4,332	4,307	1,121	666	4,130
Creosote .. ..	3,189	2,879	1,593	1,590	3,702	2,405
Toluol and xylol .. ..	(c) 13,106	—	—	—	—	11,844
Carbolic acid .. ..	13,419	10,242	6,272	9,418	9,951	6,768
Chile—						
Coal (including bunkers)	33,708	61,284	80,705	50,151	69,000	(a)
Coke .. ..	59	—	(a)	(a)	(a)	(a)
Peru—						
Coal .. ..	24,820	16,076	56,587	40,646	40,675	(a)
do. (bunkers) .. ..	14	50	43	—	—	(a)
China—						
Coal (including bunkers)	18,976	(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	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
Formosa—						
Coal (including bunkers)	(a)	(a)	63,683	18,399	12,703	(a)
French Indo-China—						
Coal (including bunkers)	67,884	71,469	57,596	199,320	209,612	341,648
Indonesia—						
Coal .. .. .	27,250	27,538	61,206	114,339	(a)	(a)
Japan—						
Coal .. .. .	1,086,564	767,681	499,666	15,587	463,439	477,531
Coke .. .. .	(a)	(a)	59	1,657	1,449	713
Tar and pitch .. .. .	148	(a)	16,437	2,449	20,839	419
Korea (South)—						
Coal .. .. .	(a)	(a)	—	—	4,641	51,448
Syria and Lebanon—						
Coal .. .. .	25	63	767	335	(a)	(a)
Coke .. .. .	—	18	288	433	(a)	(a)
Tar .. .. .	31	(a)	14	5	(a)	(a)
Turkey—						
Coal .. .. .	1,109	1,458	335	25,207	130,742	7,177

(a) Information not available.



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

(Less Re-exports)

(Long tons)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
<b>United Kingdom—</b>						
Coal .. .. .	80,224	476	4,834	1,225,544	319,552	550,715
Coke .. .. .	—	—	1	4	19,223	—
Manufactured fuel .. .. .	10	—	2	2	135	310
Tar and pitch .. .. .	1,689	2,854	3,033	2,016	2,021	3,164
Other heavy coal-tar oils .. .. .	14	(d) 4	(a) —	(a) —	(a) —	(a) —
Naphthalene .. .. .	22	—	—	16	4	1,258
Carbolic acid .. .. .	5,670	918	1,506	2,223	2,722	56
<b>Channel Islands—</b>						
Anthracite .. .. .	8,599	15,165	13,996	12,665	14,798	14,095
Bituminous .. .. .	175,425	193,859	220,061	237,292	220,999	254,719
Coke .. .. .	8,111	21,883	27,577	24,548	21,306	14,938
Creosote .. .. .	19	37	18	18	21	20
<b>Gibraltar—</b>						
Coal and coke (b) .. .. .	294,000	305,350	208,120	179,500	78,505	48,274
<b>Malta—</b>						
Coal (c) .. .. .	18,997	17,262	20,501	17,613	12,085	11,264
<b>Anglo-Egyptian Sudan—</b>						
Coal .. .. .	71,072	71,260	53,353	59,174	45,552	66,882
Coke .. .. .	1,892	498	888	410	2,125	(a) —
Pitch .. .. .	2	1	—	—	—	(a) —
Tar .. .. .	481	117	48	7	35	(a) —
Tar oils .. .. .	1,033	510	515	368	928	(a) —
<b>Gambia—</b>						
Coal, coke and patent fuel .. .. .	800	—	5	173	—	5
Tar and pitch .. .. .	252	5	9	9	4	5
<b>Gold Coast—</b>						
Coal .. .. .	98,710	129,767	61,892	160,675	147,060	97,219
Coke .. .. .	246	450	298	696	648	332
Patent fuel .. .. .	56	—	—	—	—	180
Tar and pitch .. .. .	3,566	4,627	3,880	1,805	2,845	2,078
<b>Kenya (e)—</b>						
Coal (c) .. .. .	159,960	59,288	41,640	19,001	26,225	12,181
Coke .. .. .	659	1,205	1,523	1,440	2,079	1,581
Tar .. .. .	166	146	9	31	41	—
Tar oils .. .. .	(a) —	37	37	44	26	40
<b>Mauritius—</b>						
Coal (c) .. .. .	63,799	40,520	48,261	24,232	26,659	27,557
Coke .. .. .	486	520	289	628	362	129
Tar .. .. .	(a) —	13	6	36	502	174
<b>Nigeria—</b>						
Coal (c) .. .. .	1,179	153	60,495	3	26,356	26,041
Coke .. .. .	869	547	1,197	840	364	1,165
Patent fuel .. .. .	—	—	1	1	2	1
Tar and pitch .. .. .	2,216	509	859	1,737	2,160	1,655
<b>Northern Rhodesia—</b>						
Coal .. .. .	565,608	562,737	637,988	696,181	756,379	795,439
Coke .. .. .	5,762	6,366	6,025	7,692	12,839	14,396
Tar and creosote oil .. .. .	23	28	53	56	42	58
Tar and pitch .. .. .	157	197	253	468	737	491

\*For ammonium sulphate, etc., see Nitrogen Compounds, pages 210–215.

(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	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
<i>(cont.)</i>						
Nyasaland—						
Coal .. .. .	14,842	12,950	24,010	23,132	30,860	36,362
Coke .. .. .	109	120	144	152	400	250
Tar and pitch .. .. .	81	627	1,667	784	1,009	2,961
St. Helena—						
Coal .. .. .	293	202	214	61	20	60
Sierra Leone—						
Coal (h) .. .. .	69,455	61,820	39,722	9,985	—	—
Coke .. .. .	118	215	5	—	4	4
Tar and pitch .. .. .	328	116	286	4,954	666	425
Southern Rhodesia—						
Coal .. .. .	2,196	2,642	3,582	6,902	6,347	8,262
Coke .. .. .	40	57	—	—	440	563
Tar and pitch .. .. .	3,621	2,273	1,233	2,113	1,564	38
South West Africa—						
Coal .. .. .	23,448	16,529	25,896	26,311	40,879	(a)
Coke .. .. .	15	70	53	13	54	(a)
Tanganyika—						
Coal .. .. .	53,555	45,284	56,605	50,917	71,662	56,842
Coke .. .. .	518	770	207	986	12	445
Tar .. .. .	233	126	37	42	31	34
Tar oils .. .. .	8	3	1	11	31	5
Uganda—						
Coal .. .. .		42	25	11	16	8
Coke .. .. .		213	132	198	132	143
Tar .. .. .	(b)	41	8	6	14	52
Tar oils .. .. .		11	9	10	6	18
Union of South Africa—						
Coal .. .. .	62,869	66,041	37,557	48,148	82,864	(a)
Coke .. .. .	11	—	55	—	2	(a)
Naphthalene .. .. .	21	4	49	24	21	(a)
Tar and creosote .. .. .	2,214	2,648	2,155	2,358	3,548	(a)
Zanzibar—						
Coal .. .. .	15,537	10,057	6,866	100	5,552	5,308
Canada (c)—						
Anthracite .. .. .	4,656,084	3,507,892	3,822,422	3,439,390	3,476,922	2,667,778
do. dust .. .. .	26,806	14,550	4,705	1,173	634	1,021
Bituminous .. .. .	22,495,936	15,956,586	19,970,159	20,233,343	18,483,427	17,775,246
do. (f) .. .. .	365,705	321,379	261,720	246,771	292,872	325,326
Brown coal .. .. .	13,064	14,774	6,671	8,165	6,685	2,734
Briquettes .. .. .	275,672	166,938	170,655	151,926	138,926	114,887
Coke .. .. .	485,975	373,446	301,715	538,521	480,632	324,669
Cresylic acid .. .. .	274	79	206	915	224	263
Benzol .. .. .	116	2,551	4,110	2,224	134	2,434
Tar .. .. .	10,068	3,344	30,101	37,084	22,024	28,828
Pitch .. .. .	29,696	20,199	15,732	36,672	29,626	39,287
Naphthalene .. .. .	519	660	758	489	814	844
Carbolic acid, etc. .. .. .	22,596	11,777	23,227	20,420	17,876	29,484
Newfoundland (d)—						
Anthracite .. .. .	20,321					
Other coal .. .. .	416,313					
Coke .. .. .	68,764	(d)	(d)	(d)	(d)	(d)
Tar .. .. .	396					
Pitch .. .. .	117					
Creosote .. .. .	856					
British Guiana—						
Coal (g) .. .. .	5,250	3,998	291	3,281	1,894	1,898
Coke .. .. .	192	144	126	309	141	—
Patent fuel .. .. .	1,000	321	3,050	2,007	3,000	1,014
Tar and pitch .. .. .	288	248	344	309	281	244

- (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 shops' stores". See exports.  
 (g) Includes coal imported for bunkering purposes. See exports.  
 (h) Imported chiefly for bunkering purposes. See exports.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953		
<b>BRITISH COUNTRIES</b>								
<i>(cont.)</i>								
<b>British West Indies—</b>								
Bahamas—								
Coal .. .. .	29	32	16	3	10	2		
Barbados—								
Coal, coke, and patent fuel .. .. .	2,134	1,491	2,009	2,093	1,105	878		
Bermuda—								
Bituminous (f) ..	3,795	4,363	1,389	1,081	2,480	1,588		
Coke .. .. .	—	—	40	(a)	(a)	(a)		
Grenada—								
Coal .. .. .	4	10	3	—	—	—		
Coke .. .. .	11	—	—	5	10	7		
Jamaica—								
Coal (b) .. .. .	39,085	44,993	14,966	24,237	9,657	16,166		
Coke .. .. .	445	479	706	583	353	377		
Tar and pitch ..	19	11	20	18	48	136		
Leeward Islands—								
Coal, coke and patent fuel .. .. .	21	5,201	(d) 13	5,747	1,397	1,570		
St. Lucia—								
Coal .. .. .	79	56	57	38	25	27		
Coke .. .. .	—	—	—	—	—	—		
Tar .. .. .	25	4	5	4	5	8		
St. Vincent—								
Coal .. .. .	14	(a)	(a)	(a)	(a)	(a)		
Trinidad and Tobago—								
Coal (b) .. .. .	58,960	38,676	26,007	9,583	13,924	13,767		
Coke .. .. .	214	228	39	227	236	68		
Patent fuel .. ..	5	1,080	6	—	(e) 1	82		
Tar and pitch ..	90	135	84	(a)	(a)	(a)		
British Honduras—								
Coal and coke ..	21	42	13	18	22	11		
Tar and pitch ..	9	4	13	31	4	2		
Falkland Islands—								
Coal .. .. .	2,500	1,471	1,796	2,793	779	521		
Coke .. .. .	41	40	26	83	—	91		
Aden—								
Coal (b) .. .. .	227,349	230,077	109,061	115,186	67,677	40,375		
Coke .. .. .	29	50	—	220	56	31		
Naphthalene .. ..	457	522	297	309	413	145		
India (total imports)—								
Coal .. .. .	10	4	1,425	13	423	31		
Coke .. .. .	750	—	—	—	—	—		
Tar and pitch ..	657	1,162	386	712	149	338		
Naphthalene .. ..	39	106	15	19	19	—		
Carbolic acid .. ..	27	163	46	19	130	242		
Malaya (total imports)—								
Anthracite .. .. .	125,820	135,648	93,627	152,475	176,882	9,319		
Bituminous (b) ..							78,007	
Coke .. .. .								2,221
Tar and pitch ..								
Ceylon—								
Coal (c) .. .. .	343,928	310,655	367,792	237,639	370,552	383,139		
Coke .. .. .	1,104	1,474	654	918	723	934		
Tar and pitch ..	277	158	46	94	55	152		
Cyprus—								
Coal (c) .. .. .	7,390	3,851	1,492	647	3,235	1,641		
Coke and briquettes ..	353	497	413	645	435	623		
Tar and pitch ..	2	13	18	14	15	5		
Naphthalene .. ..	41	14	41	9	25	(a)		

(a) Information not available.

(b) Imported chiefly for bunkering purposes.

See exports.

(c) Including imports for bunkering purposes.

See exports.

(d) Incomplete.

(e) Excess of re-exports.

(f) Includes coal imported for bunkering purposes.

See exports.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
<i>(cont.)</i>						
Hong Kong (total imports)—						
Anthracite .. .. .	} 325,573	421,718	317,124	277,623	305,594	206,883
Bituminous .. .. .						
Coke .. .. .						
Pakistan (b)—	12,720	6,472	2,753	3,664	2,608	2,558
Coal .. .. .	} (a)	(a)	(a)	{ 58,339	(f) 128	(f) 442
do. (g) .. .. .						
Coke .. .. .						
do. (g) .. .. .						
Tar and pitch .. .. .				407,316	586,949	736,425
Naphthalene .. .. .				—	4,658	—
Australia—				250	10,100	17,834
Coal .. .. .	32,927	442,226	636,219	352,734	272,352	22,200
Coke (e) .. .. .	862	—	21,269	37,655	6,508	(h) 8,910
Naphthalene .. .. .	10	2	35	48	47	6
Toluol .. .. .	—	1	33	—	64	70
Tar and pitch .. .. .	(e) 6	(e) 19	(e) 36	50	767	1,363
Tar oils .. .. .	56	(c) 746	(e) 118	83	90	(e) 54
Fiji—						
Coal .. .. .	21,498	25,828	9,750	18,659	22,889	18,291
Coke .. .. .	418	354	381	355	540	300
Tar and bitumen .. .. .	746	686	1,447	292	1,343	843
New Guinea (e)—						
Coal and coke .. .. .	(a)	478	336	1,866	425	174
New Zealand—						
Coal .. .. .	62,657	78,626	45,186	27,563	1,345	101
Coke .. .. .	2,633	4,263	2,750	1,431	3,821	781
Tar .. .. .	2,650	1,504	229	398	547	426
Pitch .. .. .	751	579	794	86	1,595	539
Benzol, toluol, etc. .. .. .	37	187	214	110	246	211
Naphthalene .. .. .	(£ N.Z. 921)	8	8	9	103	186
North Borneo—						
Coal and coke .. .. .	21	32	21	87	121	28
Papua (e)—						
Coal, coke and charcoal .. .. .	(a)	342	(£ 11,893)	218	529	(a)
Solomon Islands—						
Coal .. .. .	50	8	1	516	(a)	(a)
Sarawak—						
Coal and coke .. .. .	1	10	11	11	16	4
Tar .. .. .	63	67	132	114	754	114
Western Samoa—						
Coal and coke .. .. .	12	15	11	23	9	
<b>Irish Republic—</b>						
Anthracite .. .. .	55,248	54,323	42,910	48,479	65,126	39,036
Bituminous (d) .. .. .	1,640,783	1,578,023	1,785,759	1,988,273	1,633,652	1,599,507
Coke .. .. .	23,699	23,463	40,455	24,897	18,869	15,128
Patent fuel .. .. .	68,646	95,523	93,365	106,580	95,946	84,886
Tar and pitch .. .. .	4,949	6,191	5,934	13,893	14,640	11,664
Creosote, etc. .. .. .	2,592	4,838	5,267	4,368	4,481	6,652
Tar and bitumen mixture .. .. .	36,390	19,488	21,327	26,421	18,613	49,855
Benzol .. .. .	23	47	40	27	19	(a)
<b>FOREIGN COUNTRIES</b>						
<b>Austria—</b>						
Coal .. .. .	3,034,767	4,277,651	4,215,494	4,110,296	3,699,899	3,376,640
Brown coal .. .. .	781,899	705,065	438,968	537,548	356,956	208,489
Coke .. .. .	212,449	359,378	252,588	290,082	250,828	274,926

(a) Information not available.

(b) Trade by sea for 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.

(f) Excluding imports on Government account.

(g) Exports from India to Pakistan by land.

(h) Calendar year.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Austria (cont.)—</b>						
Briquettes .. ..	543,974	664,162	558,109	799,435	646,110	578,740
Light coal-tar oils ..	121	62	778	1,299	73	80
Heavy coal-tar oils ..	850	3,061	3,275	1,531	235	2,599
Carbolic acid .. ..	(a)	390	787	546	604	688
Tar, pitch, etc. ..	1,981	4,012	6,113	10,945	4,357	5,828
<b>Belgium-Luxemburg</b>						
<b>E.U.—</b>						
Coal .. ..	3,054,434	1,158,456	886,162	2,340,353	1,973,699	2,393,722
do. coke .. ..	2,742,373	2,240,111	2,410,940	3,048,096	3,168,959	2,977,215
do. briquettes .. ..	338	875	2,151	5,509	2,083	9,295
Brown coal .. ..	4,712	2,345	67	1,171	136	1,914
do. do. coke .. ..	99	(a)	5,170	7,362	86	132
do. do. briquettes ..	203,629	207,761	189,091	242,938	216,334	207,797
Tar .. ..	14,726	6,451	11,024	34,174	10,937	20,341
Naphthalene .. ..	373	1,092	8,365	4,144	4,553	6,303
Asphalt .. ..	2,671	3,156	5,043	5,182	6,866	9,480
<b>Czechoslovakia—</b>						
Coal .. ..	(b)1,722,477	} (a)	(a)	(a)	(a)	(a)
Brown coal .. ..	(b) 10,798					
Coke .. ..	(b) 3,558					
Briquettes .. ..	(b) —					
Tar and pitch .. ..	(b) 109					
Benzol, etc. .. ..	(b) —					
Carbolic acid .. ..	(b) 31					
<b>Denmark—</b>						
Coal .. ..	2,685,293	3,052,421	3,941,613'	4,478,486	4,025,661	4,148,710
Brown coal .. ..	—	—	—	15	—	20
Coke .. ..	790,244	1,274,402	1,489,984	1,037,681	1,594,416	1,610,602
Briquettes .. ..	—	—	37,460	20,896	83,514	14,368
Brown coal briquettes	2,520	233,479	256,164	104,503	221,576	113,827
Tar .. ..	514	—	15	10	43	32
Pitch .. ..	89	28	142	264	167	262
Carbolineum .. ..	2	—	26	5	4	5
Benzol .. ..	637	625	1,096	977	896	1,237
Toluol .. ..	830	915	1,374	1,090	954	1,561
Carbolic acid .. ..	268	233	85	368	135	103
<b>Finland (total imports)—</b>						
Anthracite .. ..	2,492	4,600	1,906	46,378	12,849	120,567
Other coal .. ..	1,968,346	929,867	1,435,277	1,959,906	2,206,097	1,675,007
Coke .. ..	405,989	246,569	461,645	339,783	341,362	198,031
Tar .. ..	1,541	1,440	1,284	1,084	4,095	3,140
Carbolic acid, creosote and cresol .. ..	1,543	2,778	2,844	4,158	3,684	2,688
Naphthalene .. ..	17	83	140	51	44	55
Benzol .. ..	1	293	391	192	87	1
Carbolineum .. ..	323	212	455	464	206	168
<b>France—</b>						
Anthracite .. ..	1,032,610	1,162,367	559,958	1,347,206	1,257,824	722,202
Bituminous .. ..	12,303,462	12,983,962	6,814,248	8,478,873	9,006,031	6,279,061
Lignite .. ..	40,848	2,886	—	302	226	—
Coke .. ..	3,075,239	3,918,850	2,604,172	3,502,508	4,229,711	3,504,521
Coal briquettes .. ..	23,061	2,686	246	108,158	140,744	282,902
Brown-coal briquettes..	261,321	285,856	378,057	448,153	390,834	496,835
Tar and pitch .. ..	455,308	413,964	464,243	381,885	466,023	453,679
Naphthalene .. ..	709	11	—	68	—	1,524
Carbolic acid .. ..	215	424	40	2	354	33
Cresol .. ..	55	254	545	248	324	158
Anthracene .. ..	934	1,112	321	176	328	707
Benzol, etc. .. ..	7,992	2,402	96	2,507	8,396	3,432
Heavy coal-tar oils ..	3,148	6,255	10,494	1,187	95	388

(a) Information not available.

(b) January to October only.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Germany (Federal)—</b>						
Coal .. .. .	1,140,531	2,103,064	4,002,434	9,498,417	11,605,594	9,310,007
Brown coal .. .. .	785,480	947,129	1,005,889	486,472	586,230	585,233
Coke .. .. .	47,486	69,270	235,000	200,992	430,798	317,848
Coal briquettes .. .. .	—	483	95	—	—	—
Brown-coal briquettes .. .. .	—	5,160	5,348	2,676	19,438	48,579
Tar and pitch .. .. .	—	161	16,225	11,750	17,352	30,818
Naphthalene .. .. .	526	41	2,779	5,905	484	867
Carbolic acid .. .. .	679	2,211	1,245	2,285	455	552
Cresol .. .. .	4	393	651	(b) 258	(a)	(a)
Light coal-tar oils, etc.	118	2,286	29,956	10,435	29,783	37,708
Heavy coal-tar oils, etc.	22	—	273	5,745	2,690	522
<b>Greece—</b>						
Coal .. .. .	243,521	285,363	279,624	376,040	273,160	264,460
Coke .. .. .	7,444	12,870	17,436	12,817	14,067	15,640
Naphthalene .. .. .	848	842	581	835	511	1,036
Pitch .. .. .	330	355	845	(a)	(a)	(a)
Benzol .. .. .	37	134	77	66	114	135
Tar .. .. .	(a)	8,229	845	374	367	29
<b>Hungary—</b>						
Coal .. .. .	} 773,000	(a)	(a)	(a)	(a)	(a)
Coke .. .. .						
<b>Iceland—</b>						
Coal .. .. .	125,622	96,630	93,362	67,327	(a)	(a)
Coke .. .. .	790	562	892	708	(a)	(a)
Tar .. .. .	268	59	64	97	(a)	(a)
<b>Italy—</b>						
Anthracite .. .. .	44,093	150,015	305,036	465,493	590,618	594,523
Bituminous .. .. .	8,088,874	8,273,364	7,773,243	9,886,991	8,522,315	8,355,157
Lignite .. .. .	77,629	156,600	91,927	60,786	49,142	74,098
Coke .. .. .	33,413	12,436	7,120	44,116	41,260	35,554
Briquettes .. .. .	85	2,121	(d) 16,362	92,356	60,604	103,882
Tar and tar oils .. .. .	5,789	13,175	4,514	400	1,165	3,891
Benzol .. .. .	25,593	5,678	1,383	10,369	5,804	7,587
Toluol and xylol .. .. .	2,605	3,381	7,854	6,401	6,822	5,341
Naphthalene .. .. .	3,342	6,247	2,801	5,211	7,115	6,374
<b>Netherlands—</b>						
Coal (c) .. .. .	3,325,545	3,917,395	4,367,030	4,991,478	5,402,839	5,231,061
Coke .. .. .	9	6,798	161,553	181,864	189,916	305,153
Briquettes .. .. .	38,380	24,582	128,868	219,839	287,959	256,238
Brown-coal briquettes .. .. .	232,272	194,640	218,868	236,349	228,387	230,756
Tar .. .. .	6,640	5,899	12,179	8,162	6,048	19,493
Creosote .. .. .	25	5	3,990	2,206	5,774	5,416
Naphthalene .. .. .	70	40	1,968	1,056	1,904	5,687
Carbolic acid .. .. .	324	124	905	1,640	1,832	4,106
Benzol .. .. .	68	30	2,524	97	108	1,821
Toluol and xylol .. .. .	426	2,124	1,211	398	17	659
Carbolineum .. .. .	21	132	411	404	204	262
Solvent naphtha .. .. .	83	58	225	443	289	548
Asphalt .. .. .	763	879	1,088	1,147	1,023	779

(a) Information not available.

(b) January to September only.

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

Year	long tons	
1948	..	104,903
1949	..	111,998
1950	..	78,990
1951	..	62,051
1952	..	33,684
1953	..	179,798

(d) July to December only.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Norway—</b>						
Coal .. .. .	1,481,437	1,384,675	1,280,793	1,798,884	1,031,877	(b) 752,792
Coke .. .. .	228,332	172,010	388,125	190,480	280,097	298,447
Briquettes .. .. .	(a)	(a)	(a)	(a)	(a)	12,806
Tar and pitch, etc. .. .. .	9,769	12,461	9,173	10,466	12,368	13,053
Benzol .. .. .	(a)	(a)	100	101	72	(a)
Toluol and xylol .. .. .	(a)	(a)	1,468	2,099	1,881	1,692
Pitch coke .. .. .	21,327	28,012	14,166	1,194	2	306
Creosote, etc. .. .. .	7,960	9,227	7,733	10,347	9,736	8,115
<b>Portugal—</b>						
Anthracite .. .. .	20,267	13,603	26,295	21,873	14,774	16,772
Other coal .. .. .	755,104	856,901	743,197	563,492	420,127	526,883
Coke .. .. .	42,881	21,454	23,766	37,004	21,889	22,304
Briquettes .. .. .	851	1,306	11,100	9,717	79	5,262
Tar and pitch .. .. .	6,816	4,363	7,599	9,746	3,663	5,813
Carbolic acid .. .. .	27	39	6	2	42	16
Creosote .. .. .	(a)	(a)	(a)	539	1,253	1,661
Carbolineum .. .. .	(a)	(a)	(a)	610	174	254
Naphthalene .. .. .	71	136	173	76	110	132
<b>Spain—</b>						
Anthracite .. .. .	98	113	—	—	276	(a)
Bituminous .. .. .	467,237	898,993	571,667	325,133	712,920	920,783
Coke .. .. .	31,963	83,140	143,203	82,427	131,577	215,849
Briquettes .. .. .	3,346	944	—	13,937	50,140	11,759
Tar and pitch .. .. .	63,076	68,073	39,208	69,751	54,526	64,877
Benzol, toluol, xylol, etc. .. .. .	1,230	62	865	1,338	2,993	821
<b>Sweden—</b>						
Anthracite .. .. .	33,517	32,288	48,045	71,934	29,235	44,855
Other coal .. .. .	5,282,205	3,869,809	4,705,734	5,166,522	4,736,801	3,550,030
Coke .. .. .	1,590,353	1,953,920	2,272,868	2,481,633	2,580,928	1,982,273
Briquettes .. .. .	211,467	5,274	23,617	595,978	541,422	171,672
Tar, pitch, etc. .. .. .	13,587	4,619	2,998	8,624	12,557	5,934
Benzol, etc. .. .. .	10,033	6,543	8,817	10,274	8,929	9,967
Carbolic acid, etc. .. .. .	2,150	2,168	2,228	1,202	2,017	2,407
Naphthalene .. .. .	(a)	1,430	2,169	1,602	3,779	2,565
<b>Switzerland—</b>						
Coal .. .. .	1,761,207	1,325,390	1,760,585	2,342,328	1,867,741	1,420,311
Lignite .. .. .	3,057	854	805	5,204	770	438
Coke .. .. .	634,952	429,264	576,340	558,599	635,620	592,420
Briquettes .. .. .	197,597	233,268	294,595	418,336	256,718	294,642
Tar and pitch .. .. .	43,463	37,524	54,113	66,932	47,101	76,896
Creosote, etc. .. .. .	2,528	1,465	1,091	3,141	1,345	522
Naphthalene, etc. .. .. .	17,208	8,842	10,514	15,464	9,369	13,349
<b>Yugoslavia—</b>						
Anthracite .. .. .	}	(a)	40,671	53,057	69,468	49,925
Other coal .. .. .			4,395	3,703	64,533	391,127
Coke .. .. .			336,229	466,981	446,041	230,525
Coke dust .. .. .			29,309	10,365	12,432	6,057
Benzol, toluol, etc. .. .. .			1,860	2,240	2,010	1,199
Naphthalene .. .. .			168	184	372	353
<b>Algeria—</b>						
Coal .. .. .	382,926	353,808	383,028	360,666	473,945	225,748
Coke .. .. .	3,783	948	4,660	—	—	986
Briquettes .. .. .	17,138	1,067	13,143	3,520	2,154	2,186
Tar and pitch .. .. .	6,693	2,104	9,913	6,289	6,326	4,836
Benzol, toluol, etc. .. .. .	98	128	211	215	333	243
Naphthalene .. .. .	27	95	48	56	75	70
Heavy oils .. .. .	337	40	83	135	94	123
<b>Angola—</b>						
Coal .. .. .	(a)	25,015	19,972	29,887	36,344	25,893
Coke .. .. .	(a)	(a)	(a)	3,428	(a)	(a)

(a) Information not available.

(b) Excluding coal imported from Spitzbergen.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
Belgian Congo—						
Coal .. .. .	117,259	157,933	148,517	107,835	183,871	130,365
Coke .. .. .	54,225	44,302	56,648	52,215	62,747	73,864
Briquettes .. .. .	10,191	32,081	—	23,948	6,238	246
Tar .. .. .	(a)	(a)	254	600	621	348
Cameroun (French)—						
Coal .. .. .	18,073	38,101	7,921	14,670	23,143	8,811
Canary Islands—						
Coal (b) .. .. .	94,127	106,356	63,363	72,928	58,256	(a)
Ceuta—						
Coal (b) .. .. .	208,902	247,339	213,228	99,535	68,974	(a)
Egypt—						
Coal .. .. .	251,910	257,329	143,840	223,415	178,258	67,171
Coke .. .. .	13,184	7,068	7,869	8,266	7,962	5,637
Briquettes .. .. .	24,690	52,353	24,296	7,195	6,980	2,293
Tar and pitch .. .. .	31	59	43	67	61	5
Naphthalene .. .. .	129	43	98	110	109	117
Coal-tar residues .. .. .	256	900	195	80	7	2
Ethiopia—						
Coal .. .. .	(a)	(a)	(a)	5,916	3,452	(a)
Naphthalene .. .. .	(a)	(a)	(a)	339	184	(a)
French Equatorial Africa—						
Coal and briquettes .. .. .	24,876	51,218	7,249	3,099	10,302	3,505
French Somaliland—						
Coal .. .. .	40,446	21,172	12,536	17,300	10,895	10,574
French Togoland—						
Coal and briquettes .. .. .	2,100	2,367	(a)	964	752	393
French West Africa—						
Coal .. .. .	78,709	158,064	91,433	86,413	155,332	21,428
Briquettes .. .. .		46,061	70,174	135,427		30,955
Other .. .. .		1,673	1,181	4,429		—
Madagascar—						
Coal .. .. .	27,463	24,818	60,644	25,657	49,846	17,677
Melilla—						
Coal .. .. .	12,355	9,854	17,764	15,694	23,235	(a)
Morocco (French)—						
Coal .. .. .	148,861	103,468	89,585	77,900	88,956	(a)
Coke .. .. .	5,022	3,034	3,300	3,193	5,693	5,495
Tar .. .. .	2,534	3,796	5,503	(a)	6,760	(a)
Mozambique—						
Coal .. .. .	180,457	191,844	216,598	209,957	221,409	207,424
Coke .. .. .	48	167	381	512	464	(a)
Tar, pitch and asphalt .. .. .	961	852	1,388	2,296	2,810	1,912
Naphthalene .. .. .	4	2	33	6	1	(a)
Reunion—						
Coal .. .. .	11,887	12,750	(a)	10,031	16,380	(a)
Tunis—						
Coal .. .. .	189,601	204,369	157,337	200,824	165,050	71,666
Coke .. .. .	4,686	(a)	13,038	10,322	(a)	11,747
Briquettes .. .. .	—	(a)		1,732	(a)	(a)
Tar .. .. .	757	(a)		2,399	(a)	(a)
Costa Rica (c)—						
Coal .. .. .	2,951	100	(a)	(a)	(a)	(a)
Cuba (c)—						
Coal .. .. .	29,040	24,305	9,518	55,980	(a)	(a)
Coke .. .. .	16,993	18,622	15,408	7,441	(a)	(a)
Cresote oil .. .. .	152	75	131	144	(a)	(a)
Tar and pitch .. .. .	113	123	159	121	(a)	(a)

(a) Information not available.

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

(c) Total imports.



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

Importing Country and Description	1948	1949	1950	1951	1952	1953				
<b>FOREIGN COUNTRIES</b>										
<i>(cont.)</i>										
Dominican Republic (b)— Coal, coke, briquettes, etc. . . . .	5,400	454	175	400	396	214				
French West Indies— Guadeloupe— Coal . . . . .	3,615	1,379	59	2,358	2,925	(a)				
Martinique— Coal . . . . .	3,764	8,108	} 5,703	2,591	2,960	(a)				
Coke . . . . .	1	1								
Guatemala— Coal . . . . .	82	120	44	136	106	(a)				
Coke . . . . .	330	638	1,124	162	203	(a)				
Haiti— Coal (c) . . . . .	14	23	42	(a)	(a)	(a)				
Mexico— Coal . . . . .	1,349	1,628	763	976	26,097	25,071				
Coke . . . . .	32,947	77,491	29,345	13,540	18,564	6,841				
Tar and pitch . . . . .	17	74	21	76	156	212				
Benzol, etc. . . . .	176	423	518	877	1,404	1,330				
Creosote . . . . .	4,483	73	171	213	158	2,181				
St. Pierre and Miquelon— Coal . . . . .	18,221	12,098	11,772	6,606	11,668	9,725				
United States— Anthracite . . . . .	844	—	16,329	23,939	26,223	28,074				
Bituminous . . . . .	213,885	222,793	227,641	193,138	173,136	155,657				
Lignite . . . . .	1,066	1,196	1,999	1,282	574	462				
Slack and culm . . . . .	45,171	57,243	79,919	65,879	60,434	46,471				
Coke . . . . .	144,107	247,774	390,699	144,321	279,035	140,482				
Briquettes . . . . .	294	326	718	110	150	87				
Tar and pitch . . . . .	9,918	8,223	13,762	14,164	14,601	13,746				
Benzol . . . . .	7,672	9,712	77,572	228,285	145,694	68,592				
Cresylic acid . . . . .	11,558	4,853	13,570	15,518	4,655	8,944				
Creosote oil . . . . .	164,534	132,415	165,143	196,271	265,451	214,216				
Naphthalene . . . . .	16,778	22,359	50,101	34,359	41,346	37,813				
Carbolic acid . . . . .	11	69	69	34	61	121				
Argentina— Coal . . . . .	2,142,842	1,319,660	1,424,232	2,167,638	1,712,803	1,165,222				
Coke . . . . .	61,165	38,753	19,895	50,195	42,850	43,588				
Briquettes . . . . .	15,112	—	—	—	—	—				
Tar and pitch . . . . .	} (a)	(a)	(a)	(a)	301	38				
Naphthalene . . . . .					28	400				
Carbolic acid . . . . .					981	868				
Creolin . . . . .					—	20				
Heavy coal-tar oils . . . . .					212	1,004				
Bolivia— Coal . . . . .	6,888	11,458	1,765	12,303	11,569	4,723				
Brazil (total imports)— Coal . . . . .	1,043,406	755,257	1,065,622	989,493	870,589	(a)				
Coke . . . . .	22,457	22,030	35,835	53,218	30,323	(a)				
Briquettes . . . . .	—	24,349	(a)	11,031	38,899	(a)				
Carbolic acid . . . . .	163	327	(a)	265	537	(a)				
Benzol, toluol, etc. . . . .	234	512	(a)	1,252	500	(a)				
Naphthalene . . . . .	243	181	(a)	15	4	(a)				
Chile— Anthracite . . . . .	2,273	2,650	} 76,768	193,889	174,205	196,841				
Other coal . . . . .	90,248	(a)								
Coke . . . . .	7,935	7,312					5,905	1,960	984	984
Naphthalene . . . . .	70	63					(a)	(a)	(a)	(a)
Carbolic acid and cresol	1,569	1,428	474	1,513	1,199	1,084				

(a) Information not available.

(b) Total imports.

(c) Years ended September 30 of that stated.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
Dutch Guiana—						
Coal .. .. .	4,276	128	(a)	(a)	(a)	(a)
French Guiana—						
Coal .. .. .	10	(a)	—	—	—	—
Peru—						
Coal .. .. .	(a)	—	210	3,327	3,326	(a)
Coke .. .. .	(a)	564	461	963	984	(a)
Tar .. .. .	(a)	1	—	12	5	(a)
Naphthalene .. .. .	(a)	83	14	8	9	(a)
Uruguay—						
Coal .. .. .	112,732	109,021	126,030	136,958	(a)	(a)
Coke .. .. .	5,602	4,227	847	3,363	(a)	(a)
Naphthalene .. .. .	95	63	25	—	(a)	(a)
Venezuela—						
Coal .. .. .	756	855	707	694	(a)	(a)
Naphthalene .. .. .	17	30	(a)	(a)	(a)	(a)
China—						
Coal .. .. .	135,974	(a)	(a)	(a)	(a)	(a)
Coke .. .. .	1,183	(a)	(a)	(a)	(a)	(a)
Tar and pitch .. .. .	107	(a)	(a)	(a)	(a)	(a)
French India—						
Coal .. .. .	(a)	(a)	(a)	8,077	6,041	(a)
French Indo-China—						
Coal .. .. .	10,244	9,488	11,490	10,457	(a)	(a)
Iraq—						
Coal .. .. .	1,764	1,260	1,873	1,782	} (a)	(a)
Coke .. .. .	482	353	335	883		
Tar and pitch .. .. .	7,617	4,531	7,509	10,925		
Israel—						
Anthracite .. .. .	(a)	20,001	13,500	(a)	(a)	(a)
Other coal .. .. .	(a)	4,766	7,920	(a)	(a)	(a)
Coke .. .. .	(a)	1,033	12,319	(a)	(a)	(a)
Japan (total imports)—						
Anthracite .. .. .	} 1,169,237	1,677,088	83,350	140,890	187,756	408,243
Other coal .. .. .			735,694	1,763,465	3,114,615	4,434,705
Tar and pitch .. .. .			32	50	1,020	33
Benzol .. .. .			293	73	—	27
Toluol .. .. .			907	246	—	1,242
Naphthalene .. .. .	(a)	(a)	33	98	—	446
Carbolic acid .. .. .			63	—	—	771
Cresol .. .. .			559	398	248	2,601
Korea (total imports)—						
Coal .. .. .	963,481	651,000	430,000	831,000	861,000	923,000
Portuguese India—						
Coal .. .. .	4,296	2,779	(a)	(a)	(a)	(a)
Coke .. .. .	61	153	(a)	(a)	(a)	(a)
Syria and Lebanon—						
Anthracite .. .. .	1,849	344	1,000	156	2,000	(a)
Coke .. .. .	2,243	705	1,900	1,600	874	(a)
Turkey—						
Coal .. .. .	35	—	20	3	—	53
Cresol and naphthalene	169	40	122	44	114	(a)
French Oceania—						
Coal .. .. .	2,907	3,852	5,941	3,410	5,307	(a)
New Caledonia—						
Coal .. .. .	28,079	125,541	67,481	87,197	156,837	127,475

(a) Information not available.

# COBALT

## PRODUCTION OF COBALT

(In terms of metal)

(Cwt.)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Northern Rhodesia ..	7,759	10,237	13,177	13,985	9,901	16,828
Canada (b) .. ..	(c) 13,793	5,527	5,213	8,496	12,696	15,664
Australia (d) .. ..	198	181	208	165	214	211
<b>FOREIGN COUNTRIES</b>						
Belgian Congo .. ..	84,600	86,670	101,334	112,494	134,462	162,945
Morocco (French) .. ..	5,252	4,901	8,346	14,251	19,782	11,850
Mexico .. ..	—	—	—	35	316	—
United States .. ..	6,138	4,658	7,226	8,059	12,172	11,240
<b>TOTAL .. ..</b>	<b>117,740</b>	<b>112,174</b>	<b>135,504</b>	<b>157,485</b>	<b>189,543</b>	<b>218,738</b>

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	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Cobalt and cobalt alloys	606	751	602	849	653	379
Cobalt oxide .. .. .	951	882	2,450	421	1,547	3,046
Other compounds .. ..	6,917	9,683	12,376	7,940	6,939	6,471
Northern Rhodesia—						
Cobalt .. .. .	—	—	—	—	536	5,536
Cobalt alloy .. .. .	21,214	28,268	35,750	34,589	26,589	22,357
Canada—						
Cobalt ore ( <i>Co content</i> )	7,777	440	149	315	—	331
Cobalt .. .. .	280	107	—	1,717	2,817	6,869
Cobalt alloys .. .. .	792	305	9	7	183	106
Cobalt oxides and salts	7,829	5,273	3,466	5,888	7,018	8,326
Australia—						
Cobalt .. .. .	—	80	—	—	—	—
<b>FOREIGN COUNTRIES</b>						
Belgium-Luxemburg						
E. U.—						
Cobalt ( <i>b</i> ) .. .. .	15,399	19,470	24,595	27,570	30,150	31,904
Finland—						
Cobalt ore .. .. .	—	—	2,479	80	—	—
Cobalt .. .. .	98	—	—	—	—	—
Cobalt oxide .. .. .	217	—	—	—	—	—
France—						
Matte and speiss .. ..	—	4	—	94	175	2
Ingots and scrap .. ..	—	6	476	543	654	1,028
Cobalt salts .. .. .	4	14	4	356	215	89
Sweden—						
Cobalt .. .. .	—	—	—	—	—	39
Belgian Congo—						
Cobalt .. .. .	37,277	37,690	45,952	49,950	66,415	91,529
Cobalt-copper ingots ..	123,833	109,778	130,608	139,813	162,079	173,101
Morocco (French)—						
Cobalt ore .. .. .	106,294	35,628	62,596	131,687	177,433	133,577
United States—						
Cobalt ore, etc. .. ..	1,203	—	—	—	} 22,641	3,373
Cobalt alloys and scrap	435	1,472	1,422	92		

(a) Information not available.

(b) Exports of cobalt metal are not separately recorded. Figures relate to imports into the United States from Belgium.

## IMPORTS OF COBALT, ETC.

(Less Re-exports)

(Cwt.)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Rondels, pellets and squares .. ..	8,688	6,705	5,836	5,587	9,264	7,740
Other kinds, including alloys .. ..	20,082	24,419	30,117	25,507	20,758	23,432
Cobalt oxide .. ..	7,177	5,635	5,111	8,305	10,371	11,806
Other compounds .. ..	2,734	688	2	453	4	(a)
Canada—						
Ore .. ..	7,572	727	34,933	32,927	133,423	38,286
Cobalt oxide .. ..	1	9	231	—	—	254
Hong Kong—						
Cobalt oxide .. ..	(a)	(a)	(a)	(a)	(a)	419
Australia—						
Cobalt ores, etc. .. ..	(a)	(a)	(a)	(a)	(a)	(c) 53
Cobalt ingots, etc. .. ..	480	322	290	(a)	(a)	(c) 171
Cobalt salts .. ..	(c) 592	(c) 853	800	640	900	500
<b>FOREIGN COUNTRIES</b>						
Czechoslovakia—						
Zaffre and smalt .. ..	(b) 108	(a)	(a)	(a)	(a)	(a)
France—						
Cobalt ore .. ..	22,643	20,286	30,756	79,882	106,048	60,442
Matte and speiss .. ..	7,624	4,027	567	2	6	—
Ingots and scrap .. ..	230	449	413	18	230	167
Cobalt oxide .. ..	116	22	297	167	203	108
Cobalt chloride .. ..	—	—	4	21	60	—
Italy—						
Metal and alloys, crude and scrap .. ..	(a)	(a)	(e) 211	423	1,783	1,250
Cobalt oxide .. ..	226	691	(f) 448	(f) 526	(f) 1,228	(f) 1,358
Portugal—						
Cobalt oxide .. ..	(a)	(a)	(a)	5	105	32
Sweden—						
Cobalt .. ..	1,630	2,543	2,067	1,791	2,491	728
United States—						
Cobalt ore (d) .. ..	107,760	32,466	30,734	37,682	56,535	50,847
Co content .. ..	22,769	14,579	17,081	16,066	25,608	22,001
Cobalt metal .. ..	47,182	49,896	60,240	75,856	105,880	138,071
Cobalt oxide .. ..	6,922	3,217	8,368	3,898	3,455	5,447
Cobalt salts .. ..	12	3	42	28	116	2,440
Argentina—						
Cobalt .. ..	(a)	(a)	(a)	(a)	638	441
Brazil—						
Cobalt oxide .. ..	78	235	(a)	3	220	(a)
Japan—						
Cobalt ore .. ..	(a)	(a)	—	758	(a)	(a)
Ingots, slabs and grains .. ..	(a)	(a)	20	244	3,453	4,657
Cobalt oxide .. ..	(a)	(a)	89	343	(a)	1,466
Turkey—						
Cobalt metal .. ..	—	7	—	—	—	(a)
Cobalt salts .. ..	1	—	—	4	4	(a)

(a) Information not available.

(b) January to October only.

(c) Years ended June 30 of that stated.

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

(e) July to December only.

(f) Including molybdenum oxide.

**COPPER**  
**PRODUCTION OF COPPER ORE**

(In terms of metal)

(Long tons)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Great Britain .. .. .	(a)	(a)	(a)	27	16	11
Kenya (exports) .. .. .	—	—	—	100	306	531
Northern Rhodesia (d) ..	222,900	254,988	292,788	314,329	324,275	366,795
Southern Rhodesia .. ..	129	79	115	94	107	450
South West Africa .. .. .	8,150	9,514	10,823	12,417	13,970	12,047
Tanganyika .. .. .	—	—	27	135	252	485
Union of South Africa ..	28,809	30,821	33,446	33,198	34,558	35,575
Canada (d) .. .. .	214,939	} 235,229	235,901	241,046	230,039	224,654
Newfoundland .. .. .	4,061					
Cyprus (e) .. .. .	14,900	23,600	20,500	21,600	24,900	22,100
India .. .. .	6,460	6,440	7,180	7,580	6,670	(b) 5,000
Australia .. .. .	12,368	13,462	14,905	16,607	20,088	36,495
New Zealand .. .. .	—	75	—	19	—	—
<b>TOTAL .. .. .</b>	<b>513,000</b>	<b>575,000</b>	<b>616,000</b>	<b>647,000</b>	<b>655,000</b>	<b>704,000</b>
<b>FOREIGN COUNTRIES</b>						
Austria .. .. .	857	1,339	1,651	1,813	2,710	3,080
Finland (d) .. .. .	18,089	18,422	15,203	18,018	18,386	18,477
France (d) .. .. .	93	66	42	51	44	15
Germany (Federal) .. ..	(f) 358	854	1,340	1,643	2,320	2,020
Italy .. .. .	370	400	410	390	400	440
Norway .. .. .	14,873	14,640	15,374	13,782	13,417	12,823
Portugal .. .. .	2,500	2,900	2,585	2,963	2,720	(c) 737
Spain (b) .. .. .	9,000	10,000	12,000	13,000	17,000	14,000
Sweden .. .. .	14,601	16,016	15,846	14,219	13,554	13,652
U.S.S.R. (estimated) ..	192,000	231,000	251,000	285,000	329,000	340,000
Yugoslavia .. .. .	41,000	38,000	42,609	35,382	36,386	34,759
Angola .. .. .	388	730	1,259	1,140	1,112	1,451
Belgian Congo (smelter)	153,025	139,166	173,142	188,927	202,499	210,734
Morocco (French) .. .. .	433	354	20	28	797	1,129
Cuba .. .. .	15,000	17,000	20,235	20,873	17,059	15,184
Mexico (d) .. .. .	58,143	56,342	60,724	66,287	57,540	59,198
United States (d) .. .. .	745,369	672,098	811,913	828,866	826,229	827,186
Bolivia (exports) .. .. .	6,512	4,994	4,630	4,769	4,629	4,393
Chile (d) .. .. .	437,922	365,233	357,028	373,729	402,179	357,400
Ecuador .. .. .	333	698	518	—	—	—
Peru .. .. .	17,784	27,517	29,797	31,794	30,687	33,836
Japan .. .. .	25,322	32,366	38,806	42,085	52,706	57,953
Formosa .. .. .	(a)	(a)	(a)	(a)	193	257
Korea (South) .. .. .	65	28	27	5	(b) 500	(b) 500
Philippine Republic ..	3,300	6,896	10,220	12,511	13,032	12,514
Saudi Arabia .. .. .	66	48	41	(a)	(a)	(a)
Turkey (smelter) .. .. .	10,806	11,105	11,515	12,889	22,962	26,913
<b>TOTAL .. .. .</b>	<b>1,770,000</b>	<b>1,670,000</b>	<b>1,880,000</b>	<b>1,970,000</b>	<b>2,060,000</b>	<b>2,050,000</b>
<b>WORLD'S TOTAL ..</b>	<b>2,280,000</b>	<b>2,250,000</b>	<b>2,490,000</b>	<b>2,620,000</b>	<b>2,720,000</b>	<b>2,750,000</b>

(a) Information not available.

(b) Estimated.

(c) Not strictly comparable with previous years.

(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): 1948—11,200; 1949—18,500; 1950—14,800; 1951—17,100; 1952—18,000; 1953—15,500.

(f) British Zone only.

METAL PRODUCTION OF COPPER

(Long tons)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Northern Rhodesia ..	213,638	259,108	276,463	309,159	312,409	362,651
Union of South Africa ..	28,536	29,248	32,816	32,403	33,663	34,443
Canada (b) .. ..	190,015	200,377	206,465	210,746	199,458	184,382
India .. .. .	5,863	6,390	6,614	7,083	6,079	4,920
Australia .. ..	11,389	9,858	13,509	12,483	18,841	14,679
<b>TOTAL .. ..</b>	<b>449,400</b>	<b>505,200</b>	<b>535,800</b>	<b>571,900</b>	<b>570,450</b>	<b>601,075</b>
<b>FOREIGN COUNTRIES</b>						
Austria (c) .. ..	2,109	3,735	5,284	6,348	6,330	9,177
Finland .. .. .	23,612	21,052	17,322	21,146	22,342	23,153
France .. .. .	273	(a)	(a)	(a)	(a)	(a)
Germany (Federal) (d)	25,100	38,400	47,700	51,700	41,700	47,400
Italy .. .. .	164	29	54	59	(a)	(a)
Norway .. .. .	8,794	9,159	8,892	8,519	9,851	11,913
Portugal .. .. .	—	—	—	19	—	—
Spain (e) .. .. .	8,740	11,574	9,567	6,260	6,803	6,118
Sweden .. .. .	16,909	14,132	16,247	13,784	13,220	17,796
U.S.S.R. (estimated) (f)	192,000	231,000	251,000	285,000	329,000	340,000
Yugoslavia .. ..	36,288	33,841	39,447	31,505	32,301	30,697
Angola .. .. .	—	732	1,258	1,082	972	1,105
Belgian Congo ..	153,025	139,166	173,142	188,927	202,499	210,734
Mexico .. .. .	51,136	53,454	55,311	54,028	54,352	56,589
United States (f) ..	826,295	767,525	900,472	925,563	914,662	935,529
Chile .. .. .	418,897	345,197	340,004	354,412	377,230	331,916
Peru .. .. .	11,637	20,785	22,860	23,932	20,214	23,038
China .. .. .	(g) 1,000	(a)	(g) 4,000	(g) 6,000	(a)	(a)
Formosa .. .. .	(a)	(a)	354	496	815	563
Japan (h) .. .. .	28,664	37,935	36,589	43,155	48,531	62,609
Korea (South) .. ..	506	303	(a)	18	34	(a)
Turkey .. .. .	10,806	11,105	11,515	12,889	22,962	26,913
<b>TOTAL (i) .. ..</b>	<b>1,816,000</b>	<b>1,741,000</b>	<b>1,937,000</b>	<b>2,029,000</b>	<b>2,104,000</b>	<b>2,135,000</b>
<b>WORLD'S TOTAL (i)</b>	<b>2,265,000</b>	<b>2,243,000</b>	<b>2,473,000</b>	<b>2,601,000</b>	<b>2,674,000</b>	<b>2,736,000</b>

(a) Information not available.

(b) Copper content of blister and anode copper.

(c) Includes secondary metal.

(d) Revised. Previous figures included copper derived from foreign blister copper and from secondary metal.

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

(f) In addition, secondary metal was recovered as follows (long tons): 1948—868,561; 1949—636,735; 1950—872,535; 1951—832,395; 1952—806,426; 1953—855,771.

(g) Estimated.

(h) In addition, secondary metal was recovered as follows (long tons): 1948—24,818; 1949—34,936; 1950—46,805; 1951—46,356; 1952—44,380; 1953—27,011.

(i) Revised. See Germany.

(j) May include secondary metal.

EXPORTS OF COPPER, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Ore, matte, etc. ..	—	143	(a)	(a)	(a)	(a)
Bars and ingots ..	21,247	32,113	23,470	3,174	7,034	20,735
Scrap .. ..	331	1,640	3,084	678	2,808	824
Plates, sheets, etc. ..	12,531	12,598	10,738	9,255	8,182	6,981
Rods and wire .. ..	28,143	33,533	30,141	11,157	9,902	7,892
Tubes .. ..	5,742	6,089	4,769	4,848	4,383	3,747
Sulphate .. ..	24,524	38,267	54,839	40,104	41,944	45,255
Kenya—						
Concentrates .. ..	—	—	—	524	1,614	3,002
Northern Rhodesia—						
Ore and concentrates ..	(a)	(a)	—	—	6,037	—
Blister .. ..	156,656	180,765	217,481	186,886	229,591	227,470
Electrolytic .. ..	59,179	62,653	73,288	103,847	109,754	144,581
Southern Rhodesia—						
Ore and concentrates ..	(a)	(a)	(a)	(a)	46	493
South West Africa—						
Copper-lead ore ( <i>Cu content</i> ) (b) .. ..	6,322	9,486	10,515	11,272	14,554	12,284
Tanganyika—						
Lead concentrates ( <i>Cu content</i> ) .. ..	—	—	27	135	251	485
Union of South Africa—						
Copper-gold concentrates .. ..	597	(e) 172	(e) 82	(e) 21	(e) 32	(e) 31
Copper matte .. ..	971	(e) 362	(e) 347	(e) 680	(e) 877	(e) 928
Ingots, bars and blocks	22,918	29,662	33,988	29,078	31,726	31,065
Canada (c)—						
Ore, matte, etc. ( <i>Cu content</i> ) .. ..	25,496	33,087	28,839	32,904	30,748	45,677
Ingots, etc. .. ..	103,723	113,536	119,861	90,921	101,496	117,852
Scrap, slag, etc. .. ..	4,684	3,139	5,566	887	1,550	9,507
Rods, sheets and strips	24,972	27,727	13,627	11,088	16,631	5,150
Tubes .. ..	599	424	607	779	3,750	971
Wire (excl. insulated) ..	(£265,564)	(£84,869)	(£444,133)	(£495,707)	(£2,058,254)	(£704,916)
Newfoundland (d)—						
Concentrates .. ..	14,580	(d)	(d)	(d)	(d)	(d)
Cyprus—						
Concentrates, cement copper and cupreous pyrites ( <i>Cu content</i> )	15,486	23,558	22,933	22,451	26,396	21,372
Hong Kong (including re-exports)—						
Crude and refined, unwrought (incl. alloyed) } (a)	1,322	2,863	5,195	21	—	
Scrap .. ..				267	179	
Bars, sheets, tubes and wire (incl. alloyed) ..	770	3,587	5,821	237	14	40
India—						
Ingots, etc. .. ..	23	68	74	164	2,013	345
Malaya (including re-exports)—						
Ingots, sheets, wire, etc.	38	107	112	85	137	117
Sulphate .. ..	(a)	(a)	(a)	(a)	(a)	28

(a) Information not available.

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

(c) Including Newfoundland from April 1, 1949.

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

(e) *Cu content*.



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

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
<i>(cont.)</i>						
Australia—						
Ore, etc. ( <i>Cu content</i> ) (c)	930	285	455	(d) 610	(d) 959	(d) 1,098
Matte (c)	331	—	300	—	2,001	—
Blocks and ingots	32	6	1	12	649	9,979
Scrap	—	34	69	65	78	749
Bars, sheets, wire, etc.	62	54	120	69	120	1,681
Irish Republic—						
Scrap	649	914	1,512	717	1,339	1,338
<b>FOREIGN COUNTRIES</b>						
Austria—						
Ore	(a)	2,487	—	1,978	—	—
Rough copper	237	12	1,353	1,394	843	1,422
Scrap	15	65	468	32	3	6
Bars, sheets and wire	(a)	232	8	49	74	34
Sulphate	(a)	1,484	477	38	99	451
Belgium-Luxemburg						
E.U.—						
Ore	65	—	—	—	—	—
Rough copper	88,181	126,808	116,966	104,000	120,046	128,978
Scrap	6,945	5,819	8,452	2,812	993	940
Bars, sheets, wire, etc.	18,038	14,314	19,123	22,226	17,944	16,292
Tubes and pipes	2,061	1,549	1,848	1,637	1,928	1,949
Sulphate	4,731	8,336	8,126	19,856	25,211	13,810
Czechoslovakia—						
Rough copper	(b) 1,508	(a)	(a)	(a)	(a)	(a)
Sheets, rods, wire, etc.	(b) 185	(a)	(a)	(a)	(a)	(a)
Sulphate	(b) 11	(a)	(a)	(a)	(a)	(a)
Denmark—						
Rough copper	5	28	123	378	1,351	721
Scrap and alloyed	174	1,557	2,028	1,534	1,762	2,504
Bars, sheets, wire, etc.	30	51	57	15	52	168
Finland—						
Ore	—	—	3	—	—	—
Rough copper and scrap	5,287	3,447	4,257	4,203	1,698	2,373
Sheets and wire	525	652	564	860	670	1,281
France—						
Ore, matte, etc.	271	403	167	167	—	—
Ingots	170	75	732	2,836	34	84
Scrap	180	204	1,924	563	106	1,260
Bars, sheets and wire	2,016	2,220	2,570	3,502	1,288	1,276
Sulphate	7,886	5,966	5,751	8,835	2,327	6,803
Germany (Federal)—						
Ore	—	—	—	295	—	12,594
Rough copper	9,738	22,193	36,106	35,209	55,621	47,297
Scrap	—	—	47	1,043	455	1,366
Bars, sheets, wire, etc.	377	1,429	5,626	4,997	11,192	10,103
Sulphate, including ferrous sulphate	—	274	1,278	692	2,126	2,957
Greece—						
Ore	—	—	1,526	—	—	—
Italy—						
Ore	—	19	3	668	19	—
Ingots and alloys	197	499	163	261	98	324
Scrap	1,050	136	19	2	45	—
Bars, sheets, wire, etc. and alloys	6,714	4,031	1,986	1,368	1,173	374

(a) Information not available.

(b) January to October only.

(c) Years ended June 30 of that stated.

(d) Calendar year.

EXPORTS OF COPPER, ETC. (cont.)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Netherlands—</b>						
Ingots and bars ..	578	175	453	326	1,296	288
Scrap .. .. .	1,951	2,125	15,205	15,701	11,924	12,085
Sheets, tubes and wire	575	313	234	175	1,811	4,949
Sulphate .. .. .	—	—	28	92	4	40
<b>Norway—</b>						
Ore .. .. .	588	6,125	6,289	11,259	7,114	9,414
Matte .. .. .	12,054	12,598	16,147	13,571	15,202	14,008
Burnt cupreous pyrites	2,810	—	817	2,756	(a)	(a)
Rough and refined copper	7,939	7,050	8,910	6,432	7,505	10,850
Scrap, including alloyed	1,370	1,568	2,116	1,756	2,044	2,282
<b>Portugal—</b>						
Ore .. .. .	—	—	1,126	—	—	—
Rough copper, sheets, etc. .. .. .	24	14	23	23	12	7
Sulphate .. .. .	32	83	113	153	90	17
<b>Spain—</b>						
Ore .. .. .	(a)	3,175	—	—	—	(a)
Ingots, bars and alloyed	9	9	39	9	119	4
Sheets, tubes, wire and alloyed	679	505	36	28	129	21
Sulphate .. .. .	296	352	185	432	187	1
<b>Sweden—</b>						
Rough copper .. ..	3,882	4,212	5,485	5,115	11,724	15,455
Scrap, including brass	9	131	1,940	551	394	7,108
Sheets, tubes, wire, etc.	10,694	9,945	14,506	12,137	13,477	15,952
Sulphate .. .. .	—	1	1	67	3	—
<b>Switzerland—</b>						
Ore, filings and turnings	87	266	3,048	2,385	1,421	1,207
Bars, ingots, etc. ..	101	114	1,276	191	933	1,894
Scrap .. .. .	10	308	844	162	84	506
Sheets, tubes, wire, etc.	3,695	2,806	4,755	2,361	4,123	9,192
<i>(b)</i>						
<b>Yugoslavia—</b>						
Concentrates .. ..			640	—	(a)	(a)
Blister .. .. .			15,734	7,672	5,262	9
Electrolytic .. ..	(a)	(a)	492	4,782	12,454	14,487
Scrap .. .. .			—	203	255	101
Sulphate .. .. .			1,212	881	7,899	4,516
<b>Algeria—</b>						
Ore .. .. .	—	77	320	169	242	128
Bars, sheets and wire ..	489	365	707	1,002	1,463	538
Scrap .. .. .	56	395	1,196	226	76	428
Sulphate .. .. .	—	—	—	6	—	44
<b>Angola—</b>						
Ore .. .. .	1,076	207	1,770	1,125	332	(a)
Ingots .. .. .	(a)	1,773	(a)	(a)	(a)	(a)
<b>Belgian Congo—</b>						
Copper-cobalt ingots ..	6,192	5,489	6,530	6,991	8,104	8,655
Matte .. .. .						
Ingots .. .. .	154,911	149,024	164,246	180,806	201,554	205,265
Cathodes .. .. .						
<b>Egypt—</b>						
Rough copper and scrap	22	137	—	83	116	—
<b>Morocco (French)—</b>						
Ore .. .. .	1,643	2,288	154	404	1,827	4,280
Old and scrap .. ..	68	4	11	(a)	272	(a)
<b>Cuba—</b>						
Ore .. .. .	46,817	40,057	77,026	66,067	50,627	48,092
Scrap .. .. .	—	129	196	128	(a)	(a)

(a) Information not available.

(b) Including alloys.

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

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Mexico—</b>						
Ore, concentrates, etc.	32,482	26,806	17,575	26,122	25,884	38,940
Rough copper .. ..	35,042	50,945	51,499	44,976	50,957	49,860
<i>Cu content (b)</i> .. ..	48,957	48,469	50,963	51,529	33,071	37,570
<b>United States—</b>						
Ores, matte, blister, etc.						
<i>(Cu content)</i> .. ..	2,208	179	550	209	577	442
Refined ingots, etc. ..	127,319	123,060	129,073	119,022	155,476	97,777
Scrap .. ..	2,023	7,396	8,433	6,876	7,983	30,864
Sheets, rods, wire, etc. . .	19,329	19,328	15,771	8,103	8,619	8,930
Pipes and tubes .. ..	4,684	2,986	1,775	1,928	2,313	1,448
Sulphate .. ..	37,621	28,319	26,918	38,508	38,768	29,159
<b>Bolivia—</b>						
Ore, etc. <i>(Cu content)</i> ..	6,512	4,994	4,630	4,769	4,629	4,393
<b>Chile—</b>						
Ores and concentrates ..	19,881	14,960	15,944	21,062	28,247	32,577
Precipitate .. ..	—	98	295	197	591	787
<b>Ingots—</b>						
Blister and refined ..	193,102	171,350	178,830	183,751	216,500	220,700
Electrolytic .. ..	304,688	176,861	138,183	119,483	130,600	68,900
Bars and sheets .. ..	1,024	1,123	840	10,038	10,900	6,040
Sulphate .. ..	24	129	914	543	984	399
<b>Ecuador—</b>						
Concentrates .. ..	1,935	2,912	617	—	—	(a)
Blister .. ..	—	—	—	—	(a)	(a)
<b>Peru—</b>						
Ore <i>(Cu content)</i> .. ..	4,740	7,129	5,209	8,490	10,206	(a)
Matte, etc. <i>(do.)</i> .. ..	258	384	191	221	339	(a)
Bars, etc. <i>(do.)</i> .. ..	12,225	19,561	21,244	24,325	21,008	(a)
Precipitate <i>(do.)</i> .. ..	213	328	137	193	430	(a)
<b>Japan—</b>						
Ingots and blocks .. ..	—	20,586	48,802	6,471	382	1,782
Bars, rods and tubes ..	106	(a)	27,774	4,122	3,047	1,296
Plates, sheets and wire			6,332	13,590	16,620	1,379
Scrap .. ..	(a)	(a)	4,867	—	455	—
Sulphate .. ..	(a)	(a)	666	—	108	299
<b>Philippine Republic—</b>						
Ore .. ..	5,314	22,630	15,551	105	(a)	(a)
Copper-gold-silver concentrates ..	(a)	(a)	41,672	66,314	(a)	(a)
Scrap .. ..	(a)	(a)	1,488	10,485	(a)	(a)
<b>Turkey—</b>						
Ingots .. ..	1,224	7,116	6,216	7,413	16,404	(a)

(a) Information not available.

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

IMPORTS OF COPPER, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
<b>United Kingdom—</b>						
Bars, ingots, etc.—						
Electrolytic .. ..	202,484	175,565	209,858	219,166	207,214	211,138
Other refined .. ..	21,994	14,688	1,516	5,532	4,832	6,828
Blister .. ..	132,247	120,449	105,998	130,931	170,572	100,124
Scrap .. ..	522	2,004	301	1,113	1,814	1,180
Plates, sheets, etc. ..	85	39	22	13	31	13
Rods .. ..	12,653	12,335	1,106	—	271	6
Tubes .. ..	44	11	46	8	61	10
Wire .. ..	125	22	160	42	286	37
<b>Anglo-Egyptian Sudan—</b>						
Sulphate .. ..	110	96	53	246	39	(a)
<b>Kenya (b)—</b>						
Crude, refined, alloys and scrap .. ..	(a)	25	52	(d) 202	(d) 222	(d) 248
Bars, sheets, tubes and wire .. ..	337	202	289	79	123	1,006
Sulphate .. ..	—	4	22	92	137	5
<b>Mauritius—</b>						
Bars, rods, sheets, wire, etc. .. ..	38	95	49	(d) 13	69	79
<b>Southern Rhodesia—</b>						
Ingots, bars and rods ..	265	329	355	624	827	395
<b>South West Africa—</b>						
Bars, sheets, pipes, wire, etc. .. ..	90	231	193	402	(a)	(a)
<b>Tanganyika—</b>						
Ore .. ..	(a)	(a)	(a)	(a)	(a)	(a)
Crude, refined, alloys and scrap .. ..	8	24	14	30	2	21
Sheets, tubes, wire, etc. ..	120	321	76	94	224	228
Sulphate .. ..	1	41	48	104	51	44
<b>Uganda—</b>						
Sheets, tubes, wire, etc. ..	(c)	74	19	12	5	135
<b>Union of South Africa—</b>						
Bars, ingots and slabs ..	14,126	13,592	17,149	16,281	19,337	11,268
Plates, sheets and tubes ..	3,290	2,104	1,236	1,046	1,080	(a)
Wire .. ..	4,712	1,412	805	886	322	(a)
<b>Canada—</b>						
Blocks, pigs and ingots ..	1	8	109	1,349	11,583	4,924
Bars, sheets, wire, etc. ..	2,666	1,794	1,917	2,384	1,429	1,881
Scrap .. ..	38	340	413	1,129	1,829	8,110
Sulphate .. ..	203	461	632	33	1,372	1,782
<b>British West Indies (Barbados)—</b>						
Bars and sheets .. ..	(£2,522)	(£1,835)	(£1,926)	(£2,847)	(£2,196)	(d) (£619)
<b>Cyprus—</b>						
Bars, sheets, wire, etc. ..	247	81	199	180	97	61
<b>Hong Kong (total imports)—</b>						
Crude and refined, unwrought incl. alloys ..	(a)	379	1,736	6,546	171	55
Scrap .. ..					271	98
Bars, sheets, tubes and wire incl. alloys ..	1,905	5,600	7,470	249	2,359	1,368
Sulphate .. ..	2	11	120	35	—	—

(a) Information not available.

(b) Including Uganda up to 1948 inclusive.

(c) Included with Kenya.

(d) Excess of re-exports.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953			
<b>BRITISH COUNTRIES</b>									
<i>(cont.)</i>									
<b>India—</b>									
Ingots, cakes, blocks, etc. . . . .	26,264	20,449	29,054	3,224	6,324	5,110			
Scrap . . . . .	6,883	4,780	6,564	1,032	175	246			
Sheets, tubes, wire, etc. . . . .	2,789	1,216	170	344	749	1,742			
Sulphate . . . . .	834	721	1,418	1,592	1,531	1,123			
Copper (government stores) . . . . .	550	(a)	(a)	(a)	(a)	(a)			
<b>Malaya (total imports)—</b>									
Ingots, sheets, wire, etc. . . . .	1,393	1,032	972	1,029	1,570	1,582			
Sulphate . . . . .	(a)	(a)	(a)	(a)	(a)	109			
<b>Pakistan (d)—</b>									
Ingots, cakes, blocks, etc. . . . .	}	(a)	(a)	}	2	49			
Scrap . . . . .					752	686			
Sheets, tubes, wire, etc. . . . .					73	333			
Sulphate . . . . .					20	45			
<b>Australia—</b>									
Ore and concentrates . . . . .	—	22	626	2	16	19			
Matte . . . . .	11	—	—	—	8	—			
Blocks and ingots . . . . .	9,264	23,033	13,948	20,142	24,206	1,666			
Scrap . . . . .	(c) 45	165	99	39	42	6			
Rods and bars . . . . .	}	}	}	}	6,026	2,173			
Sheets, tubes, etc. . . . .					4,939	1,387	1,486	1,940	934
Sulphate (c) . . . . .					623	1,367	1,541	1,367	2,134
<b>New Zealand—</b>									
Bars, sheets, pipes, etc. . . . .	2,508	2,092	3,417	3,195	3,994	2,943			
Wire (£ N.Z.) . . . . .	(£507,400)	1,439	1,537	914	1,249	638			
Sulphate . . . . .	201	398	404	368	1,409	22			
<b>Irish Republic—</b>									
Bars, sheets, wire, etc. . . . .	2,858	2,285	2,025	1,717	2,284	1,434			
Sulphate . . . . .	4,338	2,730	2,369	2,071	2,239	2,481			
<b>FOREIGN COUNTRIES</b>									
<b>Austria—</b>									
Ore . . . . .	(a)	(a)	8,547	—	—	—			
Rough copper . . . . .	1,426	3,808	4,396	4,658	7,840	8,276			
Scrap . . . . .	238	511	1,258	1,527	911	1,890			
Bars, sheets, wire, etc. . . . .	411	3,227	2,179	3,700	2,390	737			
Sulphate . . . . .	1,001	—	—	76	1,134	—			
<b>Belgium-Luxemburg</b>									
<b>E.U.—</b>									
Ore . . . . .	13,388	5,222	5,540	6,699	1,201	581			
Matte and rough copper . . . . .	143,956	148,871	152,720	144,663	167,452	153,131			
Scrap . . . . .	10,922	9,948	18,652	20,660	11,671	12,116			
Bars, sheets, wire, etc. . . . .	790	734	2,117	596	540	1,794			
Tubes . . . . .	497	541	546	512	478	627			
Sulphate . . . . .	27	47	30	5	6	26			
<b>Czechoslovakia—</b>									
Crude, refined and scrap . . . . .	(b) 36,610	(a)	(a)	(a)	(a)	(a)			
Sheets, rods, wire, etc. . . . .	(b) 327	(a)	(a)	(a)	(a)	(a)			
<b>Denmark—</b>									
Rough copper . . . . .	3,271	2,318	4,607	3,403	3,611	3,821			
Scrap, including alloyed . . . . .	1,649	473	735	491	317	309			
Bars, sheets, wire, etc. . . . .	8,344	9,981	10,754	10,137	8,196	8,715			
Sulphate . . . . .	2,579	1,250	1,967	1,220	1,165	1,143			

(a) Information not available.

(b) January to October only.

(c) Years ended June 30 of that stated.

(d) Years ended March 31 following that stated.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Finland (total imports)—</b>						
Rough .. .. .	1,072	112	395	218	1,468	1,880
Scrap .. .. .	32	4	651	200	4	—
Bars, sheets, tubes and wire .. .. .	2,992	1,427	2,038	1,805	4,759	1,732
Sulphate .. .. .	1	—	10	71	23	24
<b>France—</b>						
Ore .. .. .	138	1	1	1	51	—
<b>Rough copper—</b>						
Unrefined .. .. .	1,775	13,361	6,470	12,125	14,295	6,362
Refined .. .. .	77,281	106,189	97,420	95,609	122,742	89,052
Alloyed .. .. .	20,617	20,212	3,232	68	210	23
Scrap .. .. .	2,002	2,565	1,016	849	2,910	823
Bars, sheets and wire ..	338	594	322	262	13,359	271
Sulphate .. .. .	14,067	7,406	2,614	8,153	18,550	7,757
<b>Germany (Federal)—</b>						
<b>Ore and burnt cupreous pyrites</b> .. .. .	590,485	745,340	1,031,613	1,080,319	1,190,402	(e) 138,682
Matte .. .. .	(a)	(a)	(a)	(d) 3,058	20,898	8,255
Rough copper .. .. .	14,970	42,036	59,128	62,147	78,613	95,820
Scrap .. .. .	183	3,733	11,668	20,848	21,702	37,255
Bars, sheets, wire, etc. ..	146	233	33	4,888	5,791	304
Sulphate, including ferrous sulphate .. .. .	—	—	75	603	852	581
<b>Greece—</b>						
Rough copper and alloys	2,072	185	444	279	61	86
Sheets, tubes, alloys, etc.	359	393	577	146	444	419
Sulphate .. .. .	24	492	3,705	5,172	1,965	2,038
<b>Iceland—</b>						
Bars, tubes, wire, etc. ..	(a)	201	103	88	(a)	(a)
<b>Italy—</b>						
Ore .. .. .	—	13,179	4,483	—	2,082	—
Ingots and alloys .. .. .	56,299	44,204	60,459	62,874	62,752	69,581
Scrap .. .. .	2,835	5,051	11,408	9,063	8,176	8,887
Bars, sheets, wire, etc., and alloys .. .. .	10,462	6,999	4,791	4,717	3,359	2,184
Sulphate .. .. .	693	12,494	10,993	1,965	1,326	8,385
<b>Netherlands—</b>						
Ingots and bars .. .. .	15,823	21,574	19,440	14,746	12,412	16,711
Scrap .. .. .	3	51	946	1,898	562	1,469
Sheets, tubes and wire ..	9,895	6,011	9,108	6,761	10,327	10,329
Sulphate .. .. .	1,352	975	1,242	819	412	781
<b>Norway—</b>						
Rough copper .. .. .	2,172	3,196	2,390	1,682	2,836	3,452
Copper-nickel matte .. ..	16,771	19,006	16,362	20,634	26,119	29,576
Scrap .. .. .	4	13	—	69	34	34
Sheets and foil .. .. .	865	954	1,044	698	772	901
Bars, tubes and wire (b) ..	7,896	7,749	9,156	7,664	8,882	7,773
Sulphate .. .. .	258	320	117	373	36	112
<b>Portugal—</b>						
Ore and concentrates .. ..	1,076	—	165	—	—	55
Ingots, wire, alloys, etc. ..	7,352	4,529	(c) 2,963	(c) 3,044	(c) 4,099	(c) 4,409
Sulphate .. .. .	414	658	1,046	1,760	2,378	6,101
<b>Spain—</b>						
Ore .. .. .	—	93	—	31	78	(a)
Precipitate and scrap (b) ..	4,606	2,968	1,466	2,722	4,121	(a)
Ingots and bars (b) .. ..	5,359	5,538	3,413	1,553	8,848	9,630
Sheets, tubes and wire (b) ..	1,040	127	65	59	733	883
Sulphate .. .. .	1,365	6,978	8,192	10,788	6,953	2,021

(a) Information not available.

(b) Including alloys.

(c) Excluding alloys.

(d) October to December only.

(e) Excluding burnt cupreous pyrites.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
FOREIGN COUNTRIES						
(cont.)						
Sweden—						
Ore .. .. .	—	4,993	3,985	12,181	36,225	41,029
Rough copper .. ..	34,124	38,156	37,219	37,704	43,620	29,855
Scrap, including brass	6,319	5,091	4,165	7,543	10,923	7,081
Sheets, rods, wire, etc. . .	1,331	669	511	564	1,314	575
Sulphate .. .. .	126	135	488	519	574	531
Switzerland—						
Ore, filings and turnings	1,426	318	343	416	23	347
Bars, ingots, etc. (b) ..	32,928	16,411	17,474	24,801	24,926	13,761
Scrap (b) .. .. .	2,323	173	54	732	267	42
Sheets, tubes, wire, etc. (b) .. .. .	9,210	3,287	5,697	13,677	7,075	3,506
Algeria—						
Ore .. .. .	989	181	—	—	—	—
Rough copper .. .. .	2,793	5,207	2,097	3,510	4,950	2,363
Scrap .. .. .	37	—	—	—	1	1
Bars, sheets, wire, etc. . .	1,262	466	326	316	307	218
Sulphate .. .. .	7,289	7,973	6,039	5,958	6,958	4,151
Egypt—						
Crude and scrap .. .. .	558	2,043	3,325	2,303	627	166
Bars, sheets, tubes, etc.	690	1,463	678	773	505	924
Sulphate .. .. .	1,207	1,864	2,800	2,247	1,030	1,446
Madagascar—						
Crude, sheets, wire, etc.	312	(a)	(a)	(a)	(a)	(a)
Morocco (French)—						
Ingots, sheets and wire (b) .. .. .	25	902	876	(a)	895	(a)
Mozambique—						
Bars, sheets, wire and alloys .. .. .	179	239	152	62	142	(a)
Tunis—						
Bars, sheets and wire (b)	425	548	551	320	(a)	247
Costa Rica—						
Bars, sheets and wire ..	28	40	(a)	(a)	(a)	(a)
Sulphate .. .. .	8,274	6,828	(a)	(a)	(a)	(a)
Cuba (total imports)—						
Ingots and bars .. .. .	268	247	252	140	(a)	(a)
Sheets, tubes and wire	2,585	1,421	1,401	1,271	(a)	(a)
Guatemala—						
Sheets and wire .. .. .	315	238	245	205	191	(a)
Sulphate and carbonate	8,883	4,554	5,353	7,931	6,952	(a)
Mexico—						
Ingots .. .. .	488	55	4	4	11	26
Bars, sheets, alloys, etc.	1,344	978	1,327	1,672	845	438
Sulphate .. .. .	—	—	691	1,513	4,569	804
United States—						
Cu content of—						
Ore and concentrates	55,353	113,862	84,791	87,643	95,717	91,606
Matte, precipitate, etc. . . . .	1,522	1,791	1,141	1,929	3,600	5,895
Blister .. .. .	143,079	137,093	128,393	160,370	154,844	249,354
Refined ingots, bars and plates .. .. .	223,337	246,671	288,373	219,780	310,123	245,324
Scrap .. .. .	8,334	6,040	34,443	9,378	4,618	6,989
Sulphate .. .. .	30	—	210	95	—	—
Argentina—						
Ingots, electrolytic ..	7,549	3,898	8,945	(a)	14,668	12,108
Sulphate .. .. .	1,446	1,097	2,900	(a)	735	—

(a) Information not available.

(b) Including alloys.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
Brazil (total imports)—						
Electrolytic .. .. .	7,396	18,328	17,254	19,177	16,877	18,693
Rough .. .. .	3,341	3,411	3,844	2,303	2,449	(a)
Plates and sheets .. .. .	716	1,020	982	984	1,197	(a)
Tubes, pipes and wire .. .. .	849	1,201	(a)	1,616	2,201	(a)
Sulphate .. .. .	1,815	2,068	(a)	3,441	2,278	(a)
Chile—						
Bars, sheets and wire .. .. .	2	(a)	(a)	(a)	(a)	(a)
Colombia—						
Ingots, sheets, etc. .. .. .	(a)	209	375	(a)	(a)	(a)
Sulphate .. .. .	(a)	1,366	4,573	(a)	(a)	(a)
Peru—						
Bars, sheets, etc. .. .. .	310	406	395	536	688	(a)
Sulphate .. .. .	484	311	583	399	416	(a)
Uruguay—						
Bars and sheets .. .. .	603	418	620	259	(a)	(a)
Venezuela—						
Sheets .. .. .	270	146	(a)	(a)	(a)	(a)
Sulphate .. .. .	43	65	(a)	(a)	(a)	(a)
China—						
Ingots and blocks .. .. .	1,977	(a)	(a)	(a)	(a)	(a)
Bars, sheets, wire, rods and tubes .. .. .	4,111	(a)	(a)	(a)	(a)	(a)
Iran (total imports) (b)—						
Ingots, bars, sheets and alloys .. .. .	(a)	(a)	(a)	534	(a)	(a)
Iraq—						
Sheets .. .. .	242	32	200	71	(a)	(a)
Japan—						
Ore and concentrates .. .. .	(a)	(a)	10,317	1,829	20,014	40,139
Refined copper .. .. .	—	(a)	(a)	3	154	555
Scrap .. .. .	(a)	(a)	2	89	1,181	16,960
Turkey—						
Ingots, bars, and sheets .. .. .	457	595	797	131	222	(a)
Sulphate .. .. .	436	886	705	544	971	1,434

(a) Information not available.

(c) Including alloys.

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



**DIAMONDS**  
**PRODUCTION OF DIAMONDS\***  
(Metric carats)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Gold Coast (c)—						
Gem diamonds ..	320,356	} 963,435	1,187,915	1,752,879	2,189,557	2,180,728 <sup>3/4</sup>
Bort .. .. . 1,447	297,516					
Diamond sand ..	260,220					
Sierra Leone ..	465,698	494,119	655,485	474,821	452,618	481,709 <sup>3/4</sup>
Southern Rhodesia ..	—	6	—	40	48	6
South West Africa ..	200,691	280,501	504,604	502,983	537,450	610,332
Tanganyika .. ..	149,926	194,874	164,996	108,625	143,023	172,304
Union of South Africa ..	1,382,327	1,264,795	1,731,510	2,228,911	2,383,211	2,717,620
British Guiana ..	36,563	34,790	37,462	43,260	38,305	35,306
India .. .. .	2,426	1,632	2,769	1,674	2,054	2,207
Australia (Industrial) ..	—	5	130	129	49	736
<b>TOTAL .. .. .</b>	<b>3,115,700</b>	<b>3,231,050</b>	<b>(d)4,284,871</b>	<b>(d)5,113,322</b>	<b>(d)5,746,315</b>	<b>6,200,948</b>
<b>FOREIGN COUNTRIES</b>						
Angola .. .. .	795,509	769,981	538,867	734,324	743,302	729,376
Belgian Congo—						
Gem diamonds ..	550,814	550,423	543,342	537,652	594,988	564,072
Industrial do. ..	5,273,753	9,099,545	9,604,128	10,027,103	11,013,840	12,016,198
French Equatorial Africa	118,800	122,928	111,407	147,791	156,708	140,143
French West Africa ..	77,970	94,996	124,568	100,980	136,080	179,850
Liberia .. .. .	(a)	(a)	(a)	(a)	(a)	(e) 1,187
Brazil (b) .. ..	250,000	250,000	250,000	250,000	250,000	250,000
Venezuela .. ..	75,512	56,662	60,389	63,226	92,291	84,790
<b>TOTAL .. .. .</b>	<b>7,142,000</b>	<b>10,945,000</b>	<b>11,233,000</b>	<b>11,861,000</b>	<b>12,987,000</b>	<b>13,965,000</b>
<b>WORLD'S TOTAL ..</b>	<b>10,258,000</b>	<b>14,176,000</b>	<b>d15,518,000</b>	<b>d16,974,000</b>	<b>d18,733,000</b>	<b>20,166,000</b>

\* For Values see next page.

(a) Information not available.

(b) Estimated.

(c) Figures for the years 1948 and 1949 relate to exports. Subsequent figures have been revised to show production which was shared by Companies and African diggers as follows:—

	Companies	African diggers
1950 ..	573,725	614,190
1951 ..	876,116	876,763
1952 ..	680,295	1,509,262
1953 ..	930,793	1,249,935

(d) Revised.

(e) Exports during May to August only.

PRODUCTION OF DIAMONDS\*

(£ sterling)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Gold Coast (e)—						
Gem diamonds ..	616,513	} 1,390,636	2,312,000	5,930,000	5,921,000	3,677,000
Bort .. .. .	107,287					
Diamond sand ..	252,260					
Sierra Leone ..	1,106,032	1,173,532	1,884,519	1,367,805	1,584,163	1,685,982
Southern Rhodesia ..	—	26	—	200	478	50
South West Africa ..	2,369,104	3,512,700	6,631,551	9,586,261	10,494,864	10,861,923
Tanganyika (b) ..	1,083,215	1,679,976	2,042,703	1,313,383	1,731,768	1,858,146
Union of South Africa (d)	8,719,356	7,646,727	10,854,496	14,043,432	14,013,544	13,913,979
British Guiana ..	295,679	243,350	(b) 287,259	(b) 385,706	(b) 308,738	(b) 288,591
India .. .. .	31,311	20,630	31,347	40,087	35,881	42,132
Australia .. ..	—	12	216	206	94	3,850
<b>TOTAL .. .. .</b>	<b>14,480,800</b>	<b>15,638,000</b>	<b>24,044,000</b>	<b>32,667,000</b>	<b>34,091,000</b>	<b>32,332,000</b>
<b>FOREIGN COUNTRIES</b>						
Angola .. .. .	1,864,000	2,524,000	2,138,000	3,422,000	4,009,000	4,405,000
Belgian Congo—						
Gem diamonds ..	617,455	631,454	(b) 766,000	782,000	949,000	934,000
Industrial do. ..	836,013	2,022,243	(b) 2,920,000	3,474,000	4,807,000	5,231,000
French Equatorial Africa	388,000	558,000	727,000	501,000	905,000	898,000
French West Africa ..	72,000	207,000	408,000	351,000	580,000	610,000
Liberia .. .. .	(a)	(a)	(a)	(a)	(a)	(f) 1,642
Brazil (c) .. ..	(a)	(a)	(a)	(a)	(a)	(a)
Venezuela .. ..	119,000	566,000	586,000	518,000	737,000	510,000
<b>TOTAL .. .. .</b>	<b>4,900,000</b>	<b>7,509,000</b>	<b>8,545,000</b>	<b>10,048,000</b>	<b>12,987,000</b>	<b>13,590,000</b>
<b>WORLD'S TOTAL ..</b>	<b>19,380,000</b>	<b>23,150,000</b>	<b>32,589,000</b>	<b>42,715,000</b>	<b>47,078,000</b>	<b>45,922,000</b>

\* For *Quantities* in Metric Carats see previous page.

(a) Information not available.

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

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

(d) Estimated.

(e) Figures for the years 1948 and 1949 relate to exports. Subsequent figures have been revised to show value of production based on the ruling f.o.b. prices.

(f) Exports during May to August only.

**EXPORTS OF DIAMONDS**  
(Domestic Produce)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Gold Coast—						
Gem diamonds.. Ct.	320,356	} 963,435 1,390,636	944,103	1,768,013	2,133,873	2,164,262
£	616,513		1,837,452	5,981,816	5,399,885	3,924,755
Bort .. .. Ct.	297,516					
£	107,287					
Diamond sand Ct.	260,220					
£	252,260					
Sierra Leone .. Ct.	461,685	537,397	638,312	477,130	423,327	416,742
£	923,368	1,097,816	1,555,994	1,371,749	1,217,059	1,198,133
South West Africa (uncut) .. Ct.	208,907	251,611	455,288	431,954	543,712	621,562
£ (S.A.)	2,586,560	3,089,814	6,704,978	9,671,800	12,064,457	13,584,782
Tanganyika—						
Gem diamonds.. Ct.	61,213	83,757	40,771	4,423	201,106	(e) 91,044
£	790,939	1,289,856	713,716	67,616	3,504,502	(e) 1,325,061
Industrial diamonds Ct.	86,891	107,947	29,796	4,165	130,237	(e) 73,966
£	278,830	362,551	110,159	21,337	541,689	(e) 251,613
Union of South Africa—						
Uncut (d) .. Ct.	896,901	1,079,565	2,919,842	4,483,279	810,699	915,838
£ (S.A.)	6,211,448	5,891,819	12,014,868	15,379,386	7,625,887	8,253,036
Cut and polished Ct.	77,399	79,305	113,591	116,819	110,277	92,750
£ (S.A.)	5,205,515	4,859,699	8,118,920	9,832,098	9,274,728	7,076,218
British Guiana (f) Ct.	34,879	35,306	38,037	40,759	39,214	35,531
£	276,047	247,747	284,038	353,849	307,841	281,162
Hong Kong (re-exports)—						
Gem diamonds £	(a)	(a)	(a)	(a)	491,004	71,397
Malaya (re-exports) £	9,921	12,398	44,506	55,591	120,535	18,100
Australia—						
Gem diamonds (b) Ct.	(a)	617	—	—	—	—
£ (A.)	(a)	1,288	—	—	—	—
<b>FOREIGN COUNTRIES</b>						
Belgium-Luxemburg						
E.U.—						
Cut and polished Ct.	264,426	244,166	436,414	519,363	478,000	540,690
£	9,381,362	7,475,482	15,860,101	20,058,474	18,410,000	19,584,539
Industrial diamonds Ct.	855,631	1,200,354	1,600,524	1,130,214	682,000	1,197,469
£	1,355,520	2,403,948	2,949,692	3,698,520	2,418,000	4,770,569
Czechoslovakia—						
Glaziers' diamonds £	(c) 10	(a)	(a)	(a)	(a)	(a)
France—						
Uncut .. .. £	351,515	298,343	321,533	478,662	90,110	160,249
Cut .. .. £	726,190	635,951	1,652,428	1,327,120	1,485,932	1,277,097
Industrial diamonds £	25,844	66,952	12,257	4,793	50,482	38,269
Netherlands—						
Unpolished .. £	(a)	(a)	(a)	(a)	(a)	(a)
Polished .. .. £	(a)	(a)	(a)	(a)	(a)	(a)
Industrial diamonds £	(a)	(a)	(a)	(a)	(a)	(a)
Angola .. .. Ct.	672,985	889,377	555,330	718,312	741,272	724,195
£	2,003,038	3,220,185	2,285,339	3,489,481	3,598,763	3,894,338

(a) Information not available.

(b) Years ended June 30 of that stated.

(c) January to October only.

(d) Figures up to and including 1951 relate to diamonds of mixed African origin, including South African diamonds, the proportion of which is unknown. The comparable figure for 1952 was 4,491,207 carats valued £17,710,235. Figures for 1952 and 1953 relate to known South African produce only.

(e) In addition 5,519 carats with an estimated value of £258,087 have not yet been classified.

(f) Revised.

EXPORTS OF DIAMONDS (cont.)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
FOREIGN COUNTRIES (cont.)						
Belgian Congo—						
Gem diamonds .. Ct.	10,841,000 £ 3,450,000	9,822,978	536,307 758,491	617,216 893,973	530,168 844,533	588,530 992,119
Industrial diamonds Ct.						
£			9,163,290	9,714,159	10,985,791	11,798,104
£			2,786,664	3,376,682	4,782,745	5,135,048
French Equatorial Africa—	124,801	132,897	135,600	147,461	145,112	137,113
£	(a)	608,000	456,000	500,600	640,000	836,000
French West Africa	34,870	85,140	128,960	112,580	117,442	183,080
£	37,056	62,170	76,122	(a)	(a)	(a)
Liberia .. .. Ct.	(a)	(a)	(a)	(a)	(a)	(c) 1,187
£	(a)	(a)	(a)	(a)	(a)	(c) 1,642
United States—						
Uncut .. .. Ct.	(a)	4,602	4,234	712	6,971	12,963
£	(a)	37,851	32,054	10,498	59,220	147,562
Cut .. .. Ct.	(a)	5,238	6,388	6,050	3,331	4,765
£	(a)	243,852	696,679	685,886	515,487	1,011,412
Industrial diamonds Ct.	47,747	25,760	(a)	9,490	653	1,556
£	77,510	51,070	(a)	27,529	7,525	4,904
Dust .. .. Ct.	52,600	55,637	58,563	60,621	79,183	65,853
£	19,938	37,204	45,032	59,478	77,461	65,067
Brazil (b)—						
Uncut .. .. Ct.	59,275	37,225	(a)	(a)	(a)	(a)
£	208,969	(a)	(a)	(a)	(a)	(a)
Cut .. .. Ct.	1,155	420	(a)	(a)	(a)	(a)
£	40,432	(a)	(a)	(a)	(a)	(a)
Carbons .. Ct.	35,070	14,300	(a)	(a)	(a)	(a)
£	108,241	(a)	(a)	(a)	(a)	(a)
Venezuela .. Ct.	75,000	15,000	(a)	(a)	95,502	(a)
£	305,000	(a)	(a)	(a)	(a)	(a)
Israel—						
Polished .. Ct.	(a)	75,668	119,510	132,450	(a)	146,856
£I	(a)	1,830,770	3,146,702	4,167,574	(a)	5,295,700
Powder .. .. Ct.	(a)	32,481	(a)	(a)	(a)	(a)
£I	(a)	33,768	(a)	(a)	(a)	(a)

(a) Information not available.

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

(c) May to August only.

IMPORTS OF DIAMONDS  
(Less Re-exports)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom (b) Ct.	13,833,486	13,542,619	14,780,625	17,144,539	16,287,131	17,088,325
£	15,685,761	17,785,060	28,293,792	37,097,275	38,927,673	36,420,677
Kenya .. .. Ct.	60	73	77	357	47	54
£	547	3,547	1,899	7,468	2,848	2,795
Northern Rhodesia—						
Uncut .. .. Ct.	301	1,800	500	200	44	—
£	242	1,689	550	270	430	—
Union of South Africa—						
Rough diamonds Ct.	(d) 1,248,627	6,771,247	4,897,767	1,106,053	6,681,525	g 14,753,829
£ (S.A.)	(d) 678,237	1,594,365	(c) 2,262,635	(c) 8,177,872	(c) 6,598,243	g 11,637,060
Cut and polished Ct.	999	96	2	—	—	—
£ (S.A.)	36,365	2,931	49	—	—	—
Canada—						
Unset .. .. Ct.	37,392	44,443	44,297	40,624	39,756	50,986
£	1,272,390	1,592,288	2,280,063	2,296,503	2,072,417	2,521,631
Dust, bort, etc. Ct.	233,188	261,769	531,561	577,838	818,749	395,441
£	358,569	437,051	944,738	1,311,390	1,884,666	954,352
Bermuda .. .. £	—	—	(a)	(a)	264,989	(d) 164,682
Ceylon—						
Gem diamonds .. Ct.	334	342	1,140	1,446	1,679	3,072
£	15,953	19,676	67,056	98,215	97,978	168,022
Industrial diamonds Ct.	(a)	(a)	(a)	(a)	(a)	86
£	(a)	(a)	(a)	(a)	(a)	5,023
Hong Kong (total imports)—						
Gem diamonds £	(a)	(a)	(a)	(a)	1,693,236	1,928,198
Industrial diamonds £	(a)	(a)	(a)	(a)	806	713
India .. .. £	562,345	325,630	893	—	2,200	6,885
Malaya (total imports) £	10,496	37,108	36,916	4,886	13,585	6,683
Australia—						
Industrial diamonds Ct.	(e) 247,344	190,694	194,588	184,024	210,487	92,874
£ A	(e) 226,348	319,558	446,356	422,648	481,626	248,157
Other diamonds Ct.	(e) 78,184	e, f 24,722	96,116	67,504	7,267	15,905
£ A	(e) 613,818	e, f 745,647	1,124,158	1,245,527	311,524	736,151
New Zealand—						
Industrial diamonds £ N.Z.	(a)	26	1,297	145	448	260
Other diamonds £ N.Z.	(a)	112,502	122,602	283,459	104,198	189,263

(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. In the case of the Union of South Africa, diamonds of other African origin may be included. A certain amount of duplication is, therefore, unavoidable. No figures are available as to the quantities re-exported from the United Kingdom.

(c) Excess of re-exports by value only. In 1950 total imports amounted to 16,620,678 carats valued £7,148,360 and re-exports to 11,722,911 carats valued £9,410,995. In 1951 total imports amounted to 13,030,077 carats valued £6,248,213 and re-exports to 11,924,024 carats valued £14,426,085. In 1952 total imports amounted to 12,815,782 carats valued £10,220,249 and re-exports to 6,134,257 carats valued £16,818,492.

(d) Excess of re-exports.

(e) Years ended June 30 of that stated.

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

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

## IMPORTS OF DIAMONDS (cont.)

Importing Country and Description	1948	1949	1950	1951	1952	1953
FOREIGN COUNTRIES						
Belgium-Luxemburg						
E.U.—						
Rough diamonds Ct.	1,332,612	1,472,603	2,782,712	2,726,285	3,297,000	3,421,498
£	7,943,656	6,213,765	16,752,013	20,481,542	19,534,000	20,307,269
Cut diamonds .. Ct.	2,374	(a)	31,441	26,461	10,600	23,449
£	57,255	(a)	1,408,852	1,297,388	552,000	992,219
Industrial diamonds Ct.	390,682	243,439	514,669	863,389	(a)	(a)
£	149,218	297,750	445,805	855,729	(a)	(a)
France—						
Uncut .. .. . £	879,532	934,330	1,073,635	1,494,206	1,286,954	1,607,929
Cut and polished £	534,007	199,618	858,773	1,623,913	1,362,827	1,433,091
Industrial diamonds £	1,673	158	1,898	2,747	160	3,557
Netherlands—						
Unpolished .. £	2,070,000	(a)	(a)	(a)	(a)	(a)
Polished .. .. £	240,500	(a)	(a)	(a)	(a)	(a)
Industrial diamonds £	546,000	(a)	(a)	(a)	(a)	(a)
Norway .. .. Ct.	5,300	7,250	15,850	8,025	2,575	17,915
£	2,835	3,522	4,689	5,939	2,087	118,269
Yugoslavia .. Ct.	(a)	(a)	2,715,000	560,000	289,000	315,000
£	(a)	(a)	(a)	(a)	54,921	10,065
Mexico—						
Industrial diamonds Ct.	136,615	(a)	231,195	320,600	(a)	(a)
£	(a)	(a)	21,826	24,278	(a)	(a)
United States—						
Uncut .. .. Ct.	912,762	670,140	673,699	697,981	725,422	733,630
£	11,032,349	8,540,372	15,570,379	17,394,578	18,745,871	20,288,480
Cut and polished Ct.	389,314	335,487	492,671	480,516	438,546	444,247
£	13,956,559	12,234,843	20,901,751	22,092,144	18,520,302	17,989,303
Industrial diamonds Ct.	10,418,316	6,331,923	11,035,061	12,051,961	13,452,819	12,765,495
£	8,069,851	5,031,520	13,461,933	16,377,068	18,228,549	16,672,352
Dust .. .. Ct.	226,430	101,300	128,715	166,760	224,429	749,290
£	153,416	67,346	74,231	168,391	284,212	749,983
Bort, manufactured Ct.	612	1,060	2,694	6,659	11,631	7,891
£	17,128	21,726	62,698	147,394	140,287	104,101
Venezuela—						
Carbons .. .. £	1,700	(a)	(a)	(a)	(a)	(a)
Israel—						
Rough diamonds Ct.	(a)	185,266	366,661	322,440	(a)	417,134
£I	(a)	1,539,845	3,211,809	3,380,000	(a)	3,870,000
Bort .. .. Ct.	(a)	52,428	81,057	(a)	(a)	(a)
£I	(a)	31,987	54,454	(a)	(a)	(a)
Powder .. .. Ct.	(a)	3,540	6,552	(a)	(a)	(a)
£I	(a)	3,127	4,860	(a)	(a)	(a)
Japan—						
Uncut .. .. Ct.	(a)	(a)	3,990	4,915	(a)	(a)
£	(a)	(a)			10,536	(a)
Cut .. .. Ct.	(a)	(a)	8,538	2,750	(a)	(a)
£	(a)	(a)			1,160	(a)
Industrial diamonds Ct.	(a)	(a)	(a)	(a)	66,900	103,545
£	(a)	(a)	(a)	(a)	(a)	290,534

(a) Information not available.

## DIATOMACEOUS EARTH

### PRODUCTION OF DIATOMACEOUS EARTH

(Long tons)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Great Britain .. ..	7,000	10,600	3,736	9,200	17,000	12,477
Northern Ireland ..	6,858	7,789	6,443	8,726	8,698	7,367
Kenya .. ..	1,019	2,189	2,572	4,218	5,932	4,378
Union of South Africa ..	1,289	1,137	429	—	1,062	107
Canada (shipments) ..	41	54	44	82	25	3
Australia .. ..	4,438	4,063	6,221	8,729	6,366	4,440
New Zealand .. ..	103	94	119	119	204	102
<b>FOREIGN COUNTRIES</b>						
Austria .. ..	4,719	3,480	3,233	3,832	3,839	3,067
Denmark—						
Diatomaceous earth ..	5,717	3,974	4,057	4,782	3,353	(a)
Moler (b) .. ..	70,000	70,000	70,000	95,000	100,000	100,000
Finland .. ..	1,067	1,434	1,009	1,324	1,103	1,773
France .. ..	47,583	37,038	(c) 35,943	70,000	61,800	51,000
Germany (Federal) ..	(a)	28,872	33,175	43,258	47,096	49,555
Italy .. ..	5,128	6,524	11,306	10,398	9,380	(b) 10,000
Sweden .. ..	1,737	1,815	1,752	1,818	1,547	(a)
Algeria .. ..	8,276	13,366	13,493	20,660	19,700	25,145
Egypt .. ..	1,343	1,159	1,045	2,709	700	104
Costa Rica .. ..	(a)	127	7	447	670	384
United States .. ..	(d) 215,080	(e) 244,700	(e) 244,700	(e) 244,700	(f) 268,000	(f) 268,000
Chile .. ..	1,044	3,261	152	(a)	9,055	(a)

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

(a) Information not available.

(b) Estimated.

(c) Revised.

(d) Average annual production 1948–1950.

(e) Average annual production 1949–1951.

(f) Average annual production 1950–1953.

EXPORTS OF DIATOMACEOUS EARTH

(Domestic Produce)

(Long tons)

Exporting Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Canada (including other natural abrasives) ..	15	7	6	19	17	19
Australia .. ..	144	85	137	88	90	152
<b>FOREIGN COUNTRIES</b>						
Belgium-Luxemburg						
E.U. .. ..	6,733	391	1,042	1,185	296	64
Denmark—						
Diatomaceous earth ..	(a)	(a)	(a)	3,907	5,170	5,287
Moler .. ..	55,712	50,742	57,120	75,599	78,890	74,825
Moler bricks .. ..	6,497	6,435	6,618	9,654	8,699	11,293
Finland .. ..	107	—	18	—	—	—
France (b) .. ..	877	875	897	1,736	1,921	1,890
Germany (Federal) ..	268	626	1,815	3,892	5,780	5,921
Italy .. ..	5	84	140	33	137	416
Norway .. ..	280	106	207	20	—	—
Portugal .. ..	26	42	18	43	74	21
Sweden .. ..	41	8	118	31	36	10
Algeria (b) .. ..	6,703	11,190	11,112	14,570	10,435	12,376
Mozambique .. ..	—	—	—	89	(a)	(a)

(a) Information not available.

(b) Including tripoli etc.



## IMPORTS OF DIATOMACEOUS EARTH

(Less Re-exports)

(Long tons)

Importing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom ..	52,114	46,087	52,183	61,347	46,006	52,683
Union of South Africa ..	361	453	224	614	331	(a)
Canada .. .. .	15,358	15,102	16,292	18,811	14,186	17,277
Australia .. .. .	572	1,275	1,652	1,430	835	2,179
New Zealand .. ..	(a)	320	409	206	394	798
<b>FOREIGN COUNTRIES</b>						
Belgium-Luxemburg						
E.U. .. .. .	2,277	3,628	5,505	11,682	11,821	9,464
Denmark .. .. .	89	134	314	104	163	280
Finland (total imports) ..	103	54	164	599	338	374
France (incl. tripoli, etc.)	3,211	4,849	5,059	6,893	6,085	6,848
Germany .. .. .	1,886	10,189	14,828	31,513	42,651	40,267
Iceland .. .. .	(a)	16	11	37	(a)	(a)
Italy .. .. .	161	129	333	520	1,390	1,824
Netherlands .. .. .	2,805	2,363	2,917	4,484	2,676	4,945
Norway .. .. .	1,540	2,761	4,396	3,126	2,946	2,026
Portugal .. .. .	73	138	96	297	101	117
Sweden .. .. .	710	468	681	747	411	882
Yugoslavia .. .. .	(a)	(a)	69	167	44	515
Algeria (incl. tripoli, etc.)	46	5	61	83	33	95
Egypt (total imports) ..	1	5	26	54	453	1,214
Tunis .. .. .	4	(a)	(a)	(a)	(a)	(a)
Cuba (total imports) ..	2,460	2,911	5,116	3,558	(a)	(a)
Mexico .. .. .	1,484	2,553	2,540	2,390	1,969	4,214
Chile .. .. .	144	(a)	(a)	(a)	(a)	(a)
Peru .. .. .	702	198	230	412	556	(a)
Venezuela (incl. tripoli, etc.) .. .. .	141	395	(a)	(a)	(a)	(a)
Japan .. .. .	(a)	(a)	(a)	37	1,078	4,018
Turkey .. .. .	107	375	403	500	547	(a)

(a) Information not available.

# FELSPAR

## PRODUCTION OF FELSPAR

(Long tons)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Great Britain—						
China stone .. ..	54,591	64,258	68,364	69,888	69,817	62,289
Kenya .. ..	10	20	—	—	—	—
Southern Rhodesia .. ..	—	—	3,464	1,129	—	—
Union of South Africa .. ..	2,533	3,493	5,096	3,290	7,361	5,480
Canada .. ..	48,974	32,989	31,739	36,383	18,096	18,361
India .. ..	987	849	1,722	3,385	2,020	3,746
Australia (including china stone) .. ..	9,613	10,730	13,066	14,842	13,589	6,883
<b>FOREIGN COUNTRIES</b>						
Austria .. ..	1,089	1,882	3,847	3,701	2,538	1,332
Belgium .. ..	(a)	1,147	600	—	275	(a)
Finland .. ..	5,968	9,915	8,899	8,069	9,635	9,156
France .. ..	54,469	46,764	41,498	58,830	85,716	(a)
Germany (Federal) (c) .. ..	(a)	47,500	75,500	70,401	117,407	114,191
Italy .. ..	15,067	13,308	17,786	28,684	25,036	23,228
Norway—						
Unground .. ..	23,008	19,048	17,534	23,024	21,704	12,514
Ground .. ..	9,586	8,000	5,787	7,602	7,131	5,896
Portugal .. ..	1,535	1,220	—	463	689	(a)
Spain (b) .. ..	7,841	(a)	8,124	10,869	10,195	10,495
Sweden (sales)—						
Unground .. ..	21,268	22,723	18,005	25,955	33,105	35,612
Ground .. ..	16,808	15,620	17,457	15,089	14,010	12,920
Madagascar .. ..	—	—	—	—	—	24
United States (sales) .. ..	460,713	369,378	407,925	400,439	420,831	452,600
Brazil .. ..	186	10,936	(a)	(a)	(a)	(a)
Chile .. ..	871	124	857	1,181	592	(a)
Peru .. ..	207	295	—	129	—	—
Uruguay .. ..	4,800	798	699	664	884	779
Japan .. ..	24,681	19,738	12,979	26,109	23,812	24,682
<b>TOTAL*</b> .. ..	<b>800,000</b>	<b>700,000</b>	<b>770,000</b>	<b>820,000</b>	<b>890,000</b>	<b>890,000</b>

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

(a) Information not available.

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

(c) Including felspathic sand obtained as a by-product of china clay washing.

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

Exporting Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom ..	1,234	1,272	(a)	(a)	(a)	(a)
Canada .. .. .	28,096	15,687	13,808	17,707	5,679	6,114
Australia .. ..	(d) 80	(d) 210	388	462	983	158
<b>FOREIGN COUNTRIES</b>						
Austria .. .. .	162	30	54	139	16	32
Czechoslovakia ..	—	(a)	(a)	(a)	(a)	(a)
Finland .. .. .	3,641	6,388	6,595	7,479	6,956	6,658
France .. .. .	4,361	5,690	6,416	8,419	5,910	6,679
Germany (Federal) ..	2,631	5,734	6,373	(c) 28,653	(c) 67,397	(c) 61,125
Italy .. .. .	(a)	(a)	(b) 303	1,711	1,370	2,048
Netherlands .. ..	2,302	2,303	1,402	2,793	2,244	2,109
Norway—						
Crude .. .. .	22,139	15,337	14,505	25,018	21,503	16,464
Ground .. .. .	7,515	6,249	6,012	5,907	3,896	4,844
Sweden .. .. .	20,463	19,165	24,971	28,573	30,534	23,701
Israel .. .. .	(a)	267	779	(a)	(a)	(a)
Japan .. .. .	(a)	(a)	(a)	366	317	393

(a) Information not available.

(b) July to December only.

(c) Including fluorspar.

(d) Years ended June 30 of that stated.

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

Importing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom ..	14,644	9,798	19,460	26,355	23,038	14,546
Canada .. .. .	185	204	129	174	138	300
Australia .. .. .	(e) 35	118	273	356	333	150
New Zealand .. ..	(a)	186	177	314	449	282
<b>FOREIGN COUNTRIES</b>						
Austria .. .. .	53	32	199	265	715	340
Czechoslovakia ..	(c) 250	(a)	(a)	(a)	(a)	(a)
Denmark .. .. .	3,195	3,429	3,137	2,806	2,772	3,117
Finland (total imports)	111	48	—	15	20	20
France .. .. .	3,751	3,633	4,148	18,441	10,107	4,101
Germany (Federal) ..	1,748	2,799	6,021	(d) 6,639	(d) 12,092	(d) 10,200
Italy .. .. .	(a)	(a)	(b) 25	1,076	950	1,420
Netherlands .. ..	8,200	6,490	10,761	14,064	8,428	10,676
Sweden .. .. .	1,094	443	15	369	165	2
Yugoslavia .. .. .	(a)	(a)	103	79	(a)	(a)
Algeria .. .. .	(a)	(a)	(a)	316	422	210
Mexico .. .. .	3,817	3,013	2,980	2,486	2,213	4,166
United States .. ..	31,047	15,826	12,367	17,128	5,576	5,999
Venezuela .. .. .	18	3	(a)	(a)	(a)	(a)
Japan .. .. .	(a)	(a)	(a)	—	2,991	1

(a) Information not available.

(b) July to December only.

(c) January to October only.

(d) Including fluorspar.

(e) Year ended June 30 of that stated.

# FLUORSPAR

## PRODUCTION OF FLUORSPAR

(Long tons)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom (b) ..	65,494	66,508	63,008	74,754	75,823	79,128
Southern Rhodesia ..	12	236	440	109	—	333
South West Africa ..	—	—	71	767	4,348	5,037
Union of South Africa ..	3,695	4,780	6,838	12,087	10,128	14,312
Canada .. .. .	10,125	} 57,569	57,333	66,260	73,381	80,427
Newfoundland .. ..	71,096					
Australia .. .. .	511	562	576	489	86	333
<b>FOREIGN COUNTRIES</b>						
Belgium .. .. .	4,153	(a)	(a)	(a)	(a)	(a)
France .. .. .	32,914	45,302	40,995	53,537	(c) 65,047	54,177
Germany (Federal) ..	48,565	46,200	88,308	141,471	154,853	166,762
Italy .. .. .	39,993	20,481	28,722	40,371	58,191	92,345
Norway .. .. .	1,102	881	825	889	669	694
Spain .. .. .	41,877	58,653	32,644	58,732	(c) 61,517	77,122
Sweden (sales) .. ..	4,235	—	4,216	5,007	4,398	6,705
Morocco (French) ..	10	492	39	1,937	3,252	2,846
Tunis .. .. .	515	346	—	—	2,435	2,009
Mexico (e) .. .. .	74,190	54,893	64,708	65,706	177,393	154,609
United States (d) ..	296,204	211,343	269,205	309,843	298,008	283,961
Argentina .. .. .	(a)	(a)	(a)	(a)	(a)	(a)
Bolivia (e) .. .. .	223	260	60	38	79	18
Brazil .. .. .	739	529	(a)	(a)	(a)	(a)
Japan .. .. .	67	945	2,386	3,933	3,890	6,434
Korea (South) .. ..	—	1,535	5,381	4,176	5,411	11,017
Turkey .. .. .	—	492	—	—	—	—
<b>TOTAL*</b> .. .. .	<b>826,000</b>	<b>706,000</b>	<b>795,000</b>	<b>976,000</b>	<b>1,130,000</b>	<b>1,170,000</b>

\* Including estimates for fluorspar produced in the U.S.S.R. and China.

(a) Information not available.

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

(c) Revised.

(d) Shipments.

(e) Exports.

## EXPORTS OF FLUORSPAR

(Domestic Produce)

(Long tons)

Exporting Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom ..	2,131	1,085	(a)	(a)	(a)	(a)
South West Africa ..	—	—	—	840	3,187	5,018
Union of South Africa ..	59	32	41	7,712	5,079	7,929
Canada .. ..	—	13,700	12,713	19,162	16,674	21,400
Newfoundland (b) ..	32,102					
<b>FOREIGN COUNTRIES</b>						
France .. ..	578	2,371	3,670	2,831	2,284	3,053
Germany (Federal) ..	16,309	20,842	53,601	(d) 79,856	(d) 67,397	(d) 61,125
Italy .. ..	(a)	(a)	(c) 3,303	21,133	34,073	48,894
Norway .. ..	724	376	169	239	195	81
Spain .. ..	(a)	(a)	(a)	(a)	(a)	53,375
Sweden .. ..	635	234	34	26	52	48
Morocco (French) ..	(a)	(a)	(a)	522	2,047	3,051
Tunis .. ..	10	(a)	708	86	2,057	1,516
Mexico .. ..	74,190	54,893	64,708	65,706	177,393	154,609
United States .. ..	663	683	614	976	603	685
Bolivia .. ..	223	260	60	38	79	18
Korea (South) .. ..	—	(a)	4,666	2,539	3,682	4,870

(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 felspar.

## IMPORTS OF FLUORSPAR

(Less Re-exports)

(Long tons)

Importing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Canada (b) .. ..	43,683	2,241	1,404	7,311	20,280	18,001
Australia .. ..	42	70	408	933	855	869
New Zealand .. ..	(a)	4	5	5	24	12
<b>FOREIGN COUNTRIES</b>						
Austria .. ..	1,937	3,735	6,665	7,229	3,667	4,987
Denmark .. ..	637	661	575	711	394	1,046
France .. ..	298	—	720	—	635	280
Germany (Federal) (c) ..	—	—	—	1,187	12,092	10,200
Netherlands .. ..	1,785	1,931	2,825	3,015	3,600	7,727
Norway .. ..	1,134	254	1,758	234	130	491
Portugal .. ..	9	35	34	32	20	40
Sweden .. ..	5,676	881	2,145	6,152	4,388	6,892
Yugoslavia .. ..	(a)	(a)	(a)	(a)	(a)	495
Algeria .. ..	50	—	—	71	83	147
Belgian Congo .. ..	(a)	(a)	30	82	(a)	(a)
Mexico .. ..	2	2	5	37	4	10
United States .. ..	99,666	85,374	146,995	161,852	314,436	322,162
Peru .. ..	(a)	5	278	790	200	(a)
Japan .. ..	842	21,932	6,152	47,683	10,424	19,500

(a) Information not available.

(b) Including Newfoundland from April 1, 1949.

(c) Including felspar.

## FULLER'S EARTH

### PRODUCTION OF FULLER'S EARTH

(Long tons)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Union of South Africa ..	(b) 715	1,549	2,079	2,504	1,704	894
India .. .. .	6,011	4,852	4,560	4,000	8,132	1,722
Pakistan .. .. .	4,814	(a)	(a)	(a)	(a)	(a)
Australia .. .. .	132	119	40	60	110	106
New Zealand .. ..	68	—	—	—	—	—
<b>FOREIGN COUNTRIES</b>						
United States (sales) ..	305,429	286,532	353,594	431,806	377,547	384,000

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

(a) Information not available.

(b) Sales.

### EXPORTS OF FULLER'S EARTH\*

(Long tons)

Exporting Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Australia .. .. .	(b) 46	136	—	—	—	3
<b>FOREIGN COUNTRIES</b>						
Italy .. .. .	(a)	(a)	(d) 85	181	56	679
United States (c) ..	9,500	10,800	14,600	31,200	23,200	(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	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Union of South Africa ..	128	182	336	669	596	(a)
Canada .. .. .	(£23,343)	(£27,578)	(£39,211)	(£45,009)	(£62,798)	(£49,756)
Ceylon .. .. .	—	—	4	36	61	58
Australia .. .. .	390	591	598	458	6	96
New Zealand .. .. .	(a)	116	196	89	126	122
<b>FOREIGN COUNTRIES</b>						
Austria .. .. .	173	480	509	587	416	(c) 732
Italy .. .. .	(a)	(a)	(b) 443	340	599	740
Belgian Congo .. ..	(a)	(a)	1,242	725	(a)	(a)
Mexico .. .. .	982	1,153	1,739	3,948	2,681	2,597
<b>United States—</b>						
Crude .. .. .	30	31	—	36	18	—
Prepared .. .. .	85	316	212	326	122	198
Peru .. .. .	(a)	207	632	437	374	(a)
Venezuela .. .. .	18	41	(a)	(a)	(a)	(a)
Philippine Republic ..	(a)	(a)	237	216	(a)	(a)

(a) Information not available.

(c) Including bentonite.

(b) July to December only.

# GOLD

## PRODUCTION OF GOLD ORE

(In terms of metal)

(Fine troy ounces)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Anglo-Egyptian Sudan	3,579	4,114	3,533	1,495	1,545	2,175
Bechuanaland Protectorate .. .. .	1,502	300	264	493	1,245	1,109
Gold Coast .. .. .	672,388	676,931	689,429	698,676	691,460	730,963
Kenya .. .. .	23,429	20,072	22,946	19,765	10,210	9,603
Nigeria .. .. .	2,899	2,515	2,237	1,588	1,079	689
Northern Rhodesia .. .. .	1,180	1,186	1,432	857	2,523	3,308
Southern Rhodesia .. .. .	514,440	528,180	511,163	486,907	496,731	501,057
Sierra Leone .. .. .	2,400	2,330	3,484	3,261	2,638	1,412
South West Africa .. .. .	469	(a)	(a)	(a)	(a)	(a)
Swaziland .. .. .	3,110	2,841	1,794	322	1	—
Tanganyika .. .. .	57,189	69,042	(e) 66,615	(e) 64,534	(e) 68,274	(e) 74,070
Uganda (b) .. .. .	1,158	648	509	184	166	429
Union of South Africa .. .. .	11,584,849	11,705,048	11,663,713	11,516,450	11,818,681	11,940,616
Canada .. .. .	3,529,608	} 4,123,518	4,441,227	4,392,751	4,471,725	4,061,205
Newfoundland .. .. .	12,252					
British Guiana .. .. .	18,583	18,988	12,366	13,485	22,237	19,247
India .. .. .	180,430	164,203	196,925	226,364	253,264	221,961
Malaya (estimated) .. .. .	9,100	13,000	17,600	16,200	18,800	17,400
Sarawak .. .. .	599	1,523	1,440	931	843	442
Australia .. .. .	890,802	889,057	867,837	895,551	980,435	1,075,450
Fiji .. .. .	93,059	104,036	103,423	95,635	78,282	76,970
New Guinea .. .. .	86,556	93,045	(c) 81,764	(c) 94,438	(c) 127,580	(c) 120,848
New Zealand .. .. .	93,903	84,874	76,527	75,115	59,151	38,656
Papua .. .. .	202	836	(d)	(d)	(d)	(d)
<b>TOTAL .. .. .</b>	<b>17,784,000</b>	<b>18,507,000</b>	<b>18,766,000</b>	<b>18,605,000</b>	<b>19,107,000</b>	<b>18,898,000</b>
<b>FOREIGN COUNTRIES</b>						
Finland .. .. .	11,317	11,417	6,559	18,069	19,741	19,483
France .. .. .	47,519	55,537	63,755	68,127	68,706	58,000
Germany .. .. .	(a)	(a)	(a)	1,479	2,025	6,430
Italy .. .. .	19,978	11,478	11,989	13,564	16,731	13,876
Portugal .. .. .	11,799	10,385	15,465	18,358	17,940	14,854
Roumania .. .. .	90,000	112,528	(a)	(a)	(a)	(a)
Sweden .. .. .	71,889	80,280	78,866	70,474	65,877	69,864
Angola .. .. .	434	319	201	61	40	20
Belgian Congo .. .. .	299,774	333,853	339,415	352,308	368,769	371,020
Cameroon (French) .. .. .	9,528	7,955	6,381	4,835	2,318	950
Egypt .. .. .	3,853	7,045	10,724	14,037	17,059	14,452
Eritrea .. .. .	2,242	2,243	1,109	675	(a)	(a)

(a) Information not available.

(b) Exports.

(c) Including Papua.

(d) Included with New Guinea.

(e) Including gold in lead concentrates exported amounting to 114 ounces in 1950, 814 ounces in 1950, 2,738 ounces in 1952 and 3,827 ounces in 1953.

PRODUCTION OF GOLD ORE (cont.)

Producing Country	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
Ethiopia (b) .. .. .	41,595	45,102	43,524	32,938	27,291	26,696
French Equatorial Africa .. .. .	56,713	50,961	48,947	47,036	45,971	48,220
French West Africa .. .. .	18,461	46,639	(f) 4,326	(f) 1,765	(f) 1,331	(f) 1,460
Liberia (c) .. .. .	13,797	13,183	12,110	9,806	949	863
Madagascar .. .. .	1,886	1,496	1,742	1,753	1,606	1,554
Morocco (French) .. .. .	—	—	119	2,058	4,051	2,537
Mozambique .. .. .	4,734	2,468	996	861	831	1,243
Costa Rica .. .. .	(e) 1,096	(e) 284	(e) 115	(e) 1	(d) 2,000	(d) 6,500
Cuba .. .. .	334	(e) 5,692	(e) 6,915	(e) 835	(e) 881	(e) 1,181
Dominican Republic .. .. .	—	(c) 1,114	(c) 534	(c) 460	332	(a)
Guatemala (e) .. .. .	16	5	397	7	4	3
Honduras .. .. .	14,265	25,832	30,380	31,216	35,040	38,988
Mexico .. .. .	367,612	405,549	408,122	393,429	459,370	483,483
Nicaragua .. .. .	218,019	218,831	231,037	251,869	254,059	261,899
Panama .. .. .	1,000	9,657	1,118	2,712	—	—
Salvador .. .. .	20,778	27,091	27,547	24,225	25,732	19,934
United States .. .. .	2,014,257	1,991,783	2,394,231	1,980,663	1,893,261	1,958,291
Argentina (d) .. .. .	8,000	8,000	8,000	8,000	8,000	8,000
Bolivia .. .. .	2,642	32,440	1,736	1,275	9,000	1,029
Brazil .. .. .	130,243	119,182	131,207	135,837	136,764	115,775
Chile .. .. .	164,130	184,770	186,474	174,964	177,054	130,693
Colombia .. .. .	335,260	385,307	406,319	430,723	422,240	437,295
Dutch Guiana .. .. .	4,177	3,794	4,546	6,494	6,129	6,482
Ecuador .. .. .	79,207	100,177	96,908	12,683	24,267	29,100
French Guiana .. .. .	12,269	13,281	12,414	9,005	5,927	(c) 4,384
Peru .. .. .	111,162	113,753	147,964	158,270	134,865	128,211
Venezuela .. .. .	49,737	61,378	34,462	2,861	4,476	27,304
Burma .. .. .	230	195	150	173	43	567
Formosa .. .. .	13,115	16,607	21,820	26,730	28,109	21,551
Japan .. .. .	69,060	84,556	135,033	177,472	200,936	228,255
Korea (South) .. .. .	2,098	3,408	25,946	7,620	18,390	15,850
Philippine Republic .. .. .	209,225	287,838	333,991	393,600	469,408	480,625
Saudi Arabia .. .. .	73,976	66,835	66,202	73,104	69,394	81,566
Turkey .. .. .	(a)	10,700	(a)	(a)	(a)	(a)
* TOTAL .. .. .	4,600,000	4,900,000	5,400,000	5,100,000	5,200,000	5,300,000
* WORLD'S TOTAL (excl. U.S.S.R.) .. .. .	22,400,000	23,400,000	24,200,000	23,700,000	24,300,000	24,200,000

\* 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.

(d) Estimated.

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

(e) Imports into the United States.

(c) Exports.

(f) European producers only.



**EXPORTS OF GOLD\***

*(Including re-exports)*

*(In terms of metal)*

*(Fine troy ounces)*

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Bullion—						
Unrefined .. ..	—	—	—	—	—	2,400
Refined .. ..	33,367,000	18,125,000	4,935,000	2,926,000	5,839,000	6,222,000
Coin .. ..	469,000	848,000	157,000	422,000	732,000	207,000
Anglo-Egyptian Sudan*						
Bullion .. ..	300	(a)	—	—	—	200
Gold Coast—						
Bullion .. ..	670,645	656,431	705,182	692,301	705,815	730,156
Kenya (d)*—						
Bullion .. ..	40,100	29,200	28,700	25,300	15,000	10,600
Nigeria—						
Bullion .. ..	41	176	15	347	5	59
Northern Rhodesia—						
Bullion .. ..	190	166	169	79	4	—
Sierra Leone*—						
Bullion (e) .. ..	3,500	(a)	2,400	1,900	2,000	3,000
Southern Rhodesia—						
Concentrates, etc.* ..	6,400	(a)	6,400	3,900	5,300	4,900
Bullion .. ..	517,135	536,011	516,361	484,354	501,835	505,558
South West Africa—						
Bullion .. ..	473	51	25	—	—	(a)
Tanganyika—						
Concentrates .. ..	—	(a)	114	814	2,738	3,837
Bullion (refined) ..	57,557	68,989	65,127	65,583	64,693	69,876
Uganda (b)—						
Bullion .. ..	1,158	648	509	184	166	429
Union of South Africa—						
Ore and concentrates ..	12,900	(a)	11,900	16,500	11,000	8,700
Bullion .. ..	} (a)	} (a)	} (a)	} (a)	} (a)	} (a)
Coin .. ..						
Zanzibar*—						
Bullion .. ..	—	—	—	—	40	—
British Guiana—						
Bullion .. ..	14,423	14,698	10,278	9,184	15,007	11,357
Aden*—						
Bullion and coin ..	—	—	1,200	—	70	60
India (c)—						
Bullion .. ..	—	405	410	1,206	805	4
Coin .. ..	—	—	—	—	—	—
Malaya—						
Bullion .. ..	8,900*	(a)	17,800*	20,700*	13,449	14,806
Coin .. ..	19	—	31	—	—	—
Hong Kong*—						
Bullion .. ..	70	(a)	1,600	4,600	2,600	106,000
Coin .. ..	—	—	60	40	—	—
Sarawak*—						
Bullion .. ..	900	(a)	1,400	1,000	800	500
Australia—						
Ores, etc. .. ..	(f) 13,137	(f) 5,592	(f) 8,257	(g) 7,387	(g) 15,469	(g) 20,141
Bullion .. ..	232	226	22	45	824,874	1,204,518

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

(a) Information not available.

(e) 1948 to 1952 revised.

(b) Also included with Kenya up to 1948 inclusive. (f) Years ended June 30 of that stated.

(c) Sea-borne trade only.

(g) Calendar year.

(d) Including Uganda up to 1948 inclusive.

## EXPORTS OF GOLD (cont.)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b> (cont.)						
Fiji—						
Bullion .. .. .	105,712	104,115	103,111	93,700	80,189	70,467
New Guinea (b)—						
Bullion .. .. .	(a)	91,295	85,052	87,593	110,214	138,694
New Zealand—						
Auriferous quartz, etc.	—	1,606	114	—	112	90
Bullion, etc. (c) ..	50,000	50,000	104,000	67,000	64,000	41,000
Sweepings and scrap ..	1,482	1,079	1,181	636	409	—
Papua (b)—						
Bullion .. .. .	(a)	28	788	248	146	(a)
Irish Republic*—						
Bullion .. .. .	4,300	(a)	500	800	1,200	1,600
<b>FOREIGN COUNTRIES</b>						
Belgium-Luxemburg						
E.U.*—						
Bullion and scrap ..	(a)	(a)	(a)	114,000	(a)	246,000
Denmark—						
Beaten, rolled or drawn	300	50	1,500	(a)	(a)	(a)
France—						
Bullion and scrap ..	2,115,000	1,412,000	3,639,000	3,202,000	2,254,000	1,391,000
Coin .. .. .	21,300	286,000	957,000	1,280,000	1,738,000	1,426,000
Beaten, rolled or drawn	13,100	143,800	947,000	1,898,000	1,276,000	109,000
Italy—						
Bullion and scrap ..	} 7,600	} 2,700	} 350	} 200	} 350	} 1,500
Beaten, rolled or drawn						
Netherlands—						
Bullion .. .. .	} (a)	} 800,000	} { 1,400,000	} (a)	} (a)	} (a)
Coin .. .. .						
} 380,000						
Sweden—						
Bullion .. .. .	19,000	69,000	50,000	90,000	142,000	102,000
Coin .. .. .	—	—	—	—	—	—
Sweepings, etc. ..	7,000	5,000	6,000	5,000	4,900	4,300
Switzerland—						
Unwrought .. .. .	(a)	(a)	(a)	(a)	7,700	10,600
Belgian Congo—						
Bullion .. .. .	320,000	359,000	343,000	365,000	400,000	384,000
Cameroon (French)—						
Bullion (c) .. .. .	(a)	6,000	4,700	4,200	2,600	1,000
Egypt—						
Bullion .. .. .	—	20,000	(a)	—	—	—
Coin .. .. .	—	—	(a)	—	—	—
Ethiopia .. .. .	(a)	(a)	16,500	(a)	10,000	(a)
French Equatorial Africa						
Bullion (c) .. .. .	120,000	90,000	46,000	45,000	39,000	30,000
French West Africa—						
Bullion (c) .. .. .	900	32,000	20,700	8,100	1,100	1,300
Liberia—						
Bullion .. .. .	13,797	13,183	12,110	9,806	949	863
Madagascar—						
Bullion (c) .. .. .	10	4,500	10	900	—	60
Mozambique—						
Bullion .. .. .	150,000	30	—	—	—	(a)
Costa Rica—						
Bullion .. .. .	800	1,000	(a)	(a)	(a)	(a)

(a) Information not available.

(b) Years ended June 30 of that stated.

(c) Revised.

## EXPORTS OF GOLD (cont.)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
Dominican Republic—						
Bullion and scrap ..	—	1,114	534	460	332	(a)
Guatemala—						
Bullion, etc. .. ..	—	5	400	—	(a)	(a)
Honduras (b)—						
Bullion, etc. .. ..	12,000	23,000	25,000	33,600	(a)	(a)
Mexico—						
Bullion .. .. .	77,000	221,000	141,000	548,000	76,000	91,000
Netherlands West Indies—						
Bullion and coin ..	(a)	(a)	(a)	(a)	(a)	(a)
Nicaragua—						
Concentrates .. ..	222,627	219,139	229,206	251,160	254,675	260,000
Precipitates .. ..						
Panama—						
Bullion .. .. .	(a)	9,657	886	945	(a)	(a)
Salvador—						
Bullion, etc. .. ..	20,778	27,091	29,053	27,097	27,682	(a)
United States—						
Ore and base bullion ..	—	2,865	725	17,549,222	1,835	(a)
Refined bullion .. ..	5,342,728	2,168,808	14,633,178		782,526	(a)
Coin .. .. .	(a)	(a)	(a)		766,000	(a)
Argentina—						
Bullion and coin .. ..	(a)	(a)	(a)	(a)	(a)	(a)
Bolivia—						
Ore .. .. .	4,051	32,440	1,737	1,275	1,175	1,032
Chile—						
Bullion .. .. .	—	(a)	(a)	(a)	(a)	(a)
Coin .. .. .	(a)	(a)	(a)	(a)	(a)	(a)
Colombia—						
Bullion .. .. .	(a)	(a)	(a)	(a)	(a)	(a)
Dutch Guiana—						
Bullion .. .. .	4,177	3,794	4,533	6,400	6,000	6,500
French Guiana—						
Bullion .. .. .	11,000	15,000	12,400	9,000	7,000	4,384
Peru—						
Ores, concentrates, etc.	6,300	8,000	11,000	17,000	19,000	(a)
Bullion, etc. .. ..	150,000	103,000	106,000	105,000	108,000	(a)
Venezuela—						
Bullion .. .. .	4,000	7,000	(a)	(a)	(a)	(a)
Saudi Arabia—						
Bullion .. .. .	(a)	(a)	10,296	(a)	(a)	(a)

(a) Information not available.

(b) Years ended June 30 of that stated.

**TOTAL IMPORTS OF GOLD\***

*(In terms of metal)*

*(Fine troy ounces)*

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Ore, etc.* .. ..	35,400	(a)	68,000	218,000	410,000	346,000
Bullion—						
Unrefined .. ..	996,000	1,027,000	1,578,000	2,603,000	3,219,000	2,419,000
Refined .. ..	44,857,000	9,535,000	6,637,000	5,765,000	9,495,000	9,275,000
Coin .. ..	2,264,000	3,000	34,000	280,000	34,000	9,000
Malta*—						
Bullion and Coin ..	200	(a)	3,300	4,600	7,300	5,600
Anglo-Egyptian Sudan*—						
Bullion .. ..	—	(a)	57	36	—	(a)
Gold Coast—						
Bullion .. ..	—	966	—	274	—	270
Kenya* (d)—						
Bullion .. ..	15,300	3,400	1,100	3,300	2,700	2,700
Southern Rhodesia*—						
Concentrates .. ..	9,100	(a)	9,100	9,500	7,800	200
Tanganyika Territory*—						
Bullion .. ..	12	(a)	194	600	160	640
Uganda*—						
Bullion .. ..	(b)	(a)	1,328	1,100	1,200	1,200
Zanzibar*—						
Bullion .. ..	450	(a)	1,000	1,400	1,100	700
Canada*—						
Bullion, etc. (c) ..	800	(a)	1,700	7,400	(a)	(a)
British West Indies—						
Jamaica*—						
Bullion .. ..	70	(a)	40	(a)	90	600
Coin .. ..	1	(a)	20	(a)	(a)	(a)
Trinidad and Tobago*—						
Bullion .. ..	500	(a)	400	20	230	530
British Guiana*—						
Bullion .. ..	—	—	—	10	(a)	(a)
Aden*—						
Bullion and coin ..	310	—	—	—	—	—
Ceylon*—						
Bullion .. ..	100	(a)	9,500	12,000	14,000	12,000
Cyprus*—						
Bullion .. ..	1,210	(a)	280	360	390	270
Hong Kong*—						
Bullion .. ..	—	(a)	60	—	—	105,000
Coin .. ..	—	—	—	—	—	—
India—						
Bullion .. ..	5,066	705	7,107	4,254	35,960	1,255
Coin .. ..	3	12	1	4	400	119
Malaya—						
Bullion .. ..	1,200	(a)	1,200	1,027	896	658
Australia—						
Bullion, etc. .. ..	136,133	116,380	158,891	108,913	286,257	158,366
Coin .. ..	10	(a)	30	—	—	—
Fiji—						
Bullion .. ..	5	8	6	—	8	40
New Zealand—						
Concentrates .. ..	700	18	25	11	16	13
Bullion .. ..		356	537	484	556	479
Beaten, rolled or drawn*		200	400	280	140	220
Irish Republic*—						
Bullion .. ..	3,500	(a)	—	7,300	—	—

\* See note on page 122.

(a) Information not available.

(b) Included with Kenya.

(c) Gold for commercial purposes only.

(d) including Uganda up to 1948 inclusive.

## IMPORTS OF GOLD (cont.)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES*</b>						
<b>Belgium-Luxemburg</b>						
E.U.—						
Bullion, scrap, etc. ..	(a)	(a)	(a)	449,600	(a)	414,000
<b>Denmark—</b>						
Beaten, rolled or drawn	9,000	10,000	17,000	(a)	(a)	(a)
<b>Finland—</b>						
Bullion .. .. .	100	(a)	30	9,200	200	—
Sheet and wire .. ..	200	(a)	700	100	20	20
<b>France—</b>						
Bullion and scrap ..	662,000	985,000	2,163,000	1,398,000	1,977,000	1,754,000
Coin .. .. .	(a)	(a)	(a)	576,000	744,000	305,000
Beaten, rolled or drawn	12,400	270,600	777,000	2,066,000	2,421,000	1,689,000
<b>Italy—</b>						
Bullion, scrap, beaten, rolled or drawn	2,700	1,463,000	918,000	36,700	24,000	31,600
Coin .. .. .	60	1,178,000	1,026,000	1,274,000	186,000	—
<b>Norway—</b>						
Bullion .. .. .	(a)	(a)	(a)	(a)	(a)	(a)
Sheets and rolled ..	300	1,000	200	150	200	1,200
<b>Sweden—</b>						
Bullion .. .. .	8,000	12,000	8,000	6,000	116,000	90,000
Coin .. .. .	20	—	—	—	(a)	(a)
Sweepings, etc. ..	500	(a)	(a)	(a)	(a)	(a)
<b>Switzerland—</b>						
Unwrought .. .. .	(a)	(a)	(a)	31,100	78,400	108,500
<b>Algeria—</b>						
Bullion .. .. .	(a)	(a)	(a)	(a)	(a)	127,000
Coin .. .. .	(a)	(a)	(a)	(a)	(a)	68,000
Beaten, rolled or drawn	7,000	7,000	8,000	10,000	16,800	17,000
<b>Egypt—</b>						
Bullion .. .. .	358,000	590,000	(a)	(a)	322,000	8,500
Coin .. .. .	308,000	156,000	(a)	(a)	(a)	(a)
<b>Mozambique—</b>						
Bullion .. .. .	103,000	129,000	82,000	82,000	98,000	(a)
<b>Mexico—</b>						
Bullion .. .. .	400	(a)	2,000	650,000	500	600
<b>United States—</b>						
Ore and base bullion ..	1,003,883	1,034,967	905,873	729,627	630,714	(a)
Refined bullion .. ..	54,254,746	21,005,995	3,745,678	1,593,053	20,508,873	(a)
Coin .. .. .	(a)	(a)	(a)	180	2,500	(a)
<b>Brazil—</b>						
Bullion .. .. .	(a)	(a)	(a)	(a)	(a)	5,000

(a) Information not available.

# GRAPHITE

## PRODUCTION OF GRAPHITE

(Long tons)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Kenya .. .. .	—	—	—	—	34	183
South West Africa (crude)	1,601	2,229	1,358	2,585	1,165	—
Tanganyika (crude) ..	—	—	—	25	—	19
Union of South Africa ..	170	105	240	323	347	369
Canada (sales) .. .. .	2,267	1,917	3,202	1,401	1,821	3,104
Ceylon (exports) .. .. .	13,970	12,241	12,844	12,621	7,659	7,218
India .. .. .	1,649	972	1,586	1,735	2,881	767
Australia .. .. .	231	124	145	46	80	15
<b>FOREIGN COUNTRIES</b>						
Austria (crude) .. .. .	10,723	13,923	14,454	17,939	19,499	14,451
Czechoslovakia (crude)	7,000	15,000	(a)	(a)	(a)	(a)
Germany (Federal) .. ..	5,076	5,016	6,517	10,687	8,821	7,341
Italy .. .. .	7,136	4,566	4,450	4,443	3,947	4,832
Norway .. .. .	1,066	2,222	2,426	3,398	4,056	2,906
Spain .. .. .	237	252	305	270	771	272
Sweden .. .. .	63	107	—	—	—	—
Egypt .. .. .	49	—	—	—	—	—
Madagascar—						
Flake .. .. .						
Powder .. .. .	7,563	5,687	9,784	12,514	14,158	9,533
Morocco (French) .. ..	279	71	4,008	5,533	4,028	3,723
Morocco (Spanish) .. ..	25	15	73	128	21	97
Mozambique .. .. .	89	108	3	—	16	(a)
Mexico .. .. .	34,704	23,437	—	239	—	—
United States .. .. .	8,883	5,448	24,238	32,761	23,772	29,852
Brazil .. .. .	7,996	547	4,555	6,371	5,005	5,608
Japan .. .. .	8,987	5,578	464	600	838	(a)
Korea (South)—						
Flake .. .. .	391	795	245	—	250	673
Other .. .. .	14,650	39,233	15,877	21,237	14,578	19,630
<b>TOTAL*</b> .. .. .	<b>146,000</b>	<b>142,000</b>	<b>129,000</b>	<b>150,000</b>	<b>133,000</b>	<b>130,000</b>

\* Excluding graphite produced in the U.S.S.R. and Argentina.

(a) Information not available.

(b) Including 31 tons of graphite shale.

EXPORTS OF GRAPHITE

(Domestic Produce)

(Long tons)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Crucibles .. .. .	3,416	3,777	2,889	3,905	3,072	1,813
South West Africa .. .. .	970	1,246	671	2,628	1,437	—
Tanganyika (crude) .. .. .	—	—	—	25	—	19
Union of South Africa .. .. .	138	106	137	595	—	23
Canada .. .. .	1,798	1,474	2,717	1,028	1,505	2,904
Ceylon .. .. .	13,970	12,241	12,844	12,621	7,659	7,218
Hong Kong (re-exports) .. .. .	565	2,828	1,185	1,838	150	119
Australia .. .. .	82	37	91	63	41	9
<b>FOREIGN COUNTRIES</b>						
Austria .. .. .	7,204	10,301	9,644	12,696	13,277	9,956
Belgium-Luxemburg .. .. .						
E.U. .. .. .	904	135	62	73	24	10
Czechoslovakia .. .. .	(c) 1,086	(a)	(a)	(a)	(a)	(a)
Denmark .. .. .	(b) 1	(b) 7	(b) 36	(b) 84	131	2
France .. .. .	709	301	435	608	532	329
Germany (Federal) .. .. .	992	1,977	4,088	4,818	5,005	4,649
Italy .. .. .	1,953	1,597	1,444	2,025	1,680	1,558
Netherlands .. .. .	179	221	366	254	241	174
Norway .. .. .	936	2,161	1,872	3,589	3,753	2,789
Sweden .. .. .	12	—	7	—	—	—
Madagascar .. .. .	8,305	10,122	11,895	17,383	17,203	13,393
Morocco (French) .. .. .	343	108	39	32	44	40
Morocco (Spanish) .. .. .	(a)	(a)	(a)	12	16	(a)
Mozambique .. .. .	40	165	—	239	25	(a)
Mexico .. .. .	34,704	23,149	25,313	32,761	23,772	29,852
United States .. .. .	935	1,207	1,248	1,344	1,594	1,572
Brazil .. .. .	82	135	(a)	59	136	—
Japan .. .. .	(a)	(a)	139	287	518	297
Korea (South)—						
Flake .. .. .	(a)	(a)	} 4,296	27,481	(a)	15,487
Other .. .. .	(a)	(a)				

(a) Information not available.

(c) January to October only.

(b) Including artificial graphite.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Natural .. .. .	9,928	9,868	10,693	13,532	9,636	7,883
Artificial .. ..	—	17	2	10	25	—
Crucibles .. ..	1	2	(a)	(a)	(a)	(a)
Mauritius—						
Crucibles .. ..	(£158)	6	3	2	4	3
Southern Rhodesia ..	18	33	71	55	20	38
Union of South Africa ..	568	952	548	2,101	1,368	(a)
Canada (b)—						
Unground .. ..	(£20,323)	(£22,155)	(£23,500)	(£32,788)	(£35,772)	(£45,394)
Ground, including manufactures ..	(£82,799)	(£77,997)	(£108,698)	(£161,529)	(£159,212)	(£174,001)
Crucibles .. ..	(£29,032)	(£34,228)	(£53,994)	(£72,982)	(£78,179)	(£78,363)
Newfoundland (c) ..	1	(c)	(c)	(c)	(c)	(c)
Cyprus .. .. .	6	—	2	2	2	(a)
Hong Kong (total imports) ..	1,454	3,597	1,419	1,434	1,768	3,298
India—						
Graphite .. ..	733	404	667	688	326	634
Crucibles .. ..	368	728	214	396	82	160
Pakistan (f)—						
Graphite .. ..	(a)	(a)	(a)	13	26	39
Crucibles .. ..	(a)	(a)	(a)	128	23	(a)
Australia .. .. .	1,162	717	808	1,140	1,098	707
New Zealand (£N.Z.)	(£4,754)	171	77	96	63	27
Irish Republic .. ..	42	26	39	50	(a)	(a)
<b>FOREIGN COUNTRIES</b>						
Austria—						
Graphite .. ..	(a)	55	220	279	274	163
Crucibles, etc. ..	109	176	202	257	184	116
Belgium-Luxemburg						
E.U.—						
Crude and ground ..	1,697	1,541	1,788	2,247	2,043	1,465
Czechoslovakia—						
Graphite .. ..	(d) 399	(a)	(a)	(a)	(a)	(a)
Denmark—						
Graphite .. ..	(e) 728	(e) 639	(e) 901	(e) 721	578	502
Crucibles .. ..	102	80	60	119	82	62
Finland (total imports) ..	131	233	214	303	197	204
France .. .. .	4,154	4,361	3,322	5,136	4,897	3,626
Germany (Federal) ..	917	2,842	3,683	5,251	5,250	5,621
Italy .. .. .	1,907	2,407	3,636	3,375	4,853	2,483
Netherlands (e) .. ..	415	449	1,006	1,531	1,184	1,047
Norway—						
Graphite .. ..	88	112	69	85	157	179
Crucibles, etc. ..	91	130	132	133	123	73
Portugal .. .. .	50	24	97	45	88	69
Sweden .. .. .	428	638	1,068	959	909	593
Yugoslavia .. .. .	(a)	(a)	1,017	1,473	1,006	933
Algeria .. .. .	52	15	16	11	14	7
Egypt (total imports) ..	172	143	163	276	93	53

(a) Information not available.

(b) Including Newfoundland from April 1, 1949.

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

(d) January to October only.

(e) Including artificial graphite.

(f) Years ended March 31 following that stated.



## IMPORTS OF GRAPHITE (cont.)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Tunis—</b>						
Graphite .. ..	9	(a)	(a)	(a)	(a)	(a)
Crucibles .. ..	50	(a)	(a)	(a)	(a)	(a)
<b>Mexico—</b>						
Graphite .. ..	64	63	193	84	266	180
Crucibles .. ..	50	50	107	175	184	110
United States (b) ..	46,556	28,358	38,827	48,564	37,899	45,572
Argentina .. ..	(a)	(a)	(a)	(a)	1,461	298
<b>Brazil—</b>						
Graphite .. ..	38	7	(a)	171	158	(a)
Crucibles .. ..	110	147	(a)	391	239	(a)
Chile .. ..	(a)	(a)	(a)	(a)	(a)	(a)
Colombia .. ..	(a)	(a)	(a)	(a)	(a)	(a)
Peru .. ..	(a)	13	10	17	16	(a)
Uruguay .. ..	11	18	31	21	(a)	(a)
<b>Israel—</b>						
Crucibles .. ..	(a)	28	37	(a)	(a)	(a)
Lebanon .. ..			29	11	(a)	(a)
Syria .. ..	10	6	33	5	(a)	(a)
Japan .. ..	26,880	35,136	4,221	33,389	25,873	14,999
Philippine Republic ..	(a)	(a)	280	82	(a)	(a)
<b>Turkey—</b>						
Graphite .. ..	37	20	124	95	52	52
Crucibles, etc. .. ..	59	46	40	164	89	(a)

(a) Information not available.

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

Year	Long tons
1948 .. ..	104
1949 .. ..	40
1950 .. ..	164
1951 .. ..	80
1952 .. ..	301
1953 .. ..	252

# GYPSUM

## PRODUCTION OF GYPSUM

(Long tons)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Great Britain—						
Gypsum .. .. .	1,053,600	1,086,000	1,167,400	1,237,200	1,358,400	1,521,600
Anhydrite .. .. .	1,033,600	1,024,400	1,038,900	1,047,200	1,035,400	1,135,000
Northern Ireland .. .. .	—	—	—	170	—	—
Anglo-Egyptian Sudan .. .. .	2,996	1,472	—	5,485	3,535	7,327
Kenya .. .. .	1,000	178	—	82	1,593	841
Tanganyika (f) .. .. .	—	—	—	—	495	1,700
Union of South Africa .. .. .	(c) 82,610	87,693	115,038	120,129	144,688	150,042
Canada (b) .. .. .	3,114,254	2,809,923	3,375,188	3,507,479	3,173,140	3,427,714
Jamaica .. .. .	—	12,000	23,000	26,744	44,900	74,093
Ceylon .. .. .	167	184	—	410	675	428
Cyprus (e) .. .. .	68,000	82,000	122,000	70,000	110,000	190,000
India .. .. .	78,948	139,944	206,366	203,612	411,204	582,713
Pakistan .. .. .	1,000	15,645	16,659	22,784	28,830	27,155
Australia .. .. .	276,416	288,580	335,484	364,347	351,678	329,992
Irish Republic .. .. .	61,703	66,205	81,362	85,026	73,467	(a)
<b>FOREIGN COUNTRIES</b>						
Austria (b) .. .. .	25,959	35,617	41,632	117,479	104,130	295,209
Belgium .. .. .	(a)	(a)	(a)	(a)	(a)	31,348
Bulgaria (e) .. .. .	5,000	5,000	5,000	5,000	5,000	5,000
France (b) .. .. .	2,136,890	2,109,309	1,959,564	1,985,000	2,548,497	2,710,000
Germany (Federal) (i) .. .. .	(d) 308,000	578,000	714,000	793,000	753,000	765,000
Greece .. .. .	571	718	807	17,665	18,700	(a)
Italy (including alabaster) .. .. .	366,029	440,862	481,448	571,343	663,824	(a)
Poland .. .. .	13,959	25,945	32,306	(a)	(a)	(a)
Portugal .. .. .	42,165	42,380	35,464	29,519	38,987	(a)
Spain (h) .. .. .	1,649,000	1,498,000	2,609,000	2,110,000	1,849,000	(a)
Algeria .. .. .	32,733	—	41,060	52,359	85,730	71,939
Angola (f) .. .. .	(a)	(a)	168	—	(a)	(a)
Egypt .. .. .	93,739	6,169	139,198	100,050	(a)	(a)
Morocco (French) .. .. .	29,660	15,181	610	—	7,829	14,143
Morocco (Spanish) .. .. .	(e) 4,000	(e) 4,000	4,379	3,520	(a)	(a)
Tunis .. .. .	18,828	22,000	22,700	24,000	23,000	22,400
Dominican Republic .. .. .	7,181	17,000	—	20,903	12,660	18,295
United States .. .. .	6,477,263	5,900,105	7,314,844	7,737,084	7,513,661	7,400,000
Chile .. .. .	30,501	59,351	(a)	61,046	34,864	(a)
Colombia .. .. .	994	1,795	2,260	2,000	2,000	7,400
Peru .. .. .	45,978	36,828	31,413	30,402	31,392	(a)
Venezuela (g) .. .. .	2,568	2,945	2,018	1,382	150	(a)
Japan .. .. .	111,957	115,261	112,864	198,261	197,475	266,819
New Caledonia .. .. .	758	16,850	15,060	15,528	5,099	18,959
Philippine Republic .. .. .	792	2,667	2,837	393	—	—
Siam .. .. .	197	152	331	77	—	—
<b>TOTAL* (j) .. .. .</b>	<b>17,300,000</b>	<b>16,800,000</b>	<b>20,100,000</b>	<b>20,600,000</b>	<b>20,700,000</b>	<b>21,700,000</b>

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

(a) Information not available.

(b) Including "Anhydrite".

(c) Sales and shipments.

(d) Bizonal area.

(e) Estimated.

(f) Exports.

(g) Production in Government quarries only.

(h) Revised. Converted from cubic metres at rate of 1 cu.m. = 2.354 tons.

(i) Crude estimated on production of calcined.

(j) Revised.

EXPORTS OF GYPSUM

(Domestic Produce)

(Long tons)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Calcined .. .. .	7,749	16,332	22,236	12,205	17,202	14,579
Tanganyika .. .. .	—	—	—	—	495	1,700
Union of South Africa ..	4,998	6,007	6,430	7,082	6,041	11,990
Canada—						
Crude .. .. .	2,336,849	2,271,979	2,651,762	2,703,871	2,467,404	2,473,205
Ground .. .. .	9,637	(a)	(a)	(a)	(a)	(a)
Calcined .. .. .	662	147	91	151	292	78
Jamaica .. .. .	—	120	10,712	24,861	36,334	56,752
Cyprus—						
Crude .. .. .	13,992	16,951	53,094	19,840	41,510	94,720
Calcined .. .. .	4,330	7,030	9,465	2,471	11,792	7,420
Hong Kong (including re-exports) .. .. .	333	210	1,437	1,631	(a)	(a)
Australia—						
Crude .. .. .	35,164	37,255	27,131	23,905	32,524	27,838
Irish Republic—						
Crude .. .. .	(a)	(a)	(a)	(a)	9,541	20,161
Calcined .. .. .	352	4,591	2,438	8,134	1,656	2,320
<b>FOREIGN COUNTRIES</b>						
Austria—						
Crude and ground ..	27,978	16,657	19,194	19,468	15,505	18,516
Calcined .. .. .	271	1,889	7,002	4,957	115	11
Belgium-Luxemburg						
E.U.—						
Crude .. .. .	1,630	233	95	771	253	542
Ground and calcined ..	5,663	3,881	1,613	2,476	3,383	5,983
Denmark—						
Crude and calcined ..	36	21	37	22	21	35
France—						
Crude .. .. .	311,924	290,188	367,691	411,456	420,487	524,166
Calcined .. .. .	53,923	68,357	82,061	69,496	56,464	60,988
Germany (Federal)—						
Gypsum and phosphatic gypsum .. .. .	27,675	34,481	94,660	114,082	125,917	153,558
Italy—						
Crude .. .. .	(a)	(a)	(b) 222	5,171	904	596
Calcined .. .. .	(a)	(a)	(b) 426	115	645	292
Netherlands						
Calcined .. .. .	255	2,461	3,100	3,048	2,462	2,683
Portugal—						
Crude .. .. .	40	123	277	437	474	470
Sweden—						
Calcined .. .. .	27	26	186	56	61	28
Switzerland—						
Ground and calcined ..	795	177	161	90	76	52
Yugoslavia—						
Crude .. .. .	(a)	(a)	39	7,821	(a)	31,952
Calcined .. .. .	(a)	(a)	1,119	1,811	20	2,747
Algeria .. .. .	608	439	568	252	191	128
Angola—						
Crude .. .. .	(a)	(a)	168	—	(a)	(a)

(a) Information not available.

(b) July to December only.

## EXPORTS OF GYPSUM (cont.)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
FOREIGN COUNTRIES (cont.)						
Egypt—						
Crude and ground ..	2,038	2,139	8,052	8,061	22,476	16,972
Calcined .. ..	351	1,076	277	4,234	2,596	(a)
Morocco (French) ..	27,885	20,846	8,520	3,238	8,755	246
Tunis (including re-exports)—						
Calcined .. ..	21	(a)	(a)	(a)	(a)	(a)
Dominican Republic ..	6,386	17,925	987	12,656	4,921	15,959
Mexico—						
Crude .. ..	118,093	63,812	170,467	256,775	222,982	250,421
Calcined .. ..	45,558	82,762	27,828	23	16	4
United States—						
Crude and ground ..	1,254	} 15,685	21,141	22,362	17,754	21,152
Calcined .. ..	8,387					
Argentina .. ..	(a)	(a)	(a)	(a)	958	55

(a) Information not available.

IMPORTS OF GYPSUM

(Less Re-exports)

(Long tons)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Crude, including						
alabaster .. .. .	36,743	53,106	69,223	46,209	50,691	75,009
Calcined .. .. .	6,642	3,587	2,330	1,537	1,298	2,009
Anglo-Egyptian Sudan ..	173	231	214	397	180	(a)
Kenya—						
Crude .. .. .	525	—	470	—	3	225
Southern Rhodesia—						
Crude and calcined ..	2,763	4,266	6,866	6,121	7,582	14,841
South West Africa .. ..	21	18	24	31	62	(a)
Uganda—						
Crude .. .. .	(a)	—	1	—	802	269
Union of South Africa—						
Crude and calcined ..	1,111	992	527	686	667	(a)
Bermuda—						
Calcined .. .. .	(a)	(a)	(a)	(a)	376	226
Canada (b)—						
Crude and ground .. ..	921	505	757	1,518	579	488
Calcined .. .. .	8,887	7,796	20,035	13,978	11,310	19,670
Newfoundland (c)—						
Crude and calcined ..	243	(c)	(c)	(c)	(c)	(c)
Hong Kong (total imports)	2,426	89	3,838	5,700	(a)	(a)
Australia (e) .. .. .	6	7	132	10	10	7
New Zealand—						
Crude .. .. .	26,956	39,318	28,310	15,214	35,098	30,509
Calcined .. .. .	4,798	9,293	8,427	7,057	18,261	11,105
Irish Republic—						
Calcined, etc. .. ..	395	667	1,015	651	(a)	(a)
<b>FOREIGN COUNTRIES</b>						
Belgium-Luxemburg						
E.U.—						
Crude .. .. .	202,419	162,416	201,587	257,752	272,383	249,113
Ground and calcined ..	33,500	30,367	42,704	39,496	34,805	38,090
Czechoslovakia—						
Crude and ground .. ..	(d) 30,291	(a)	(a)	(a)	(a)	(a)
Calcined .. .. .	(d) 15,255	(a)	(a)	(a)	(a)	(a)
Denmark—						
Crude .. .. .	25,786	14,663	35,684	32,713	35,414	35,407
Calcined .. .. .	11,820	31,663	4,970	4,235	4,348	5,184
Finland (total imports)—						
Crude .. .. .	24,597	22,389	31,907	41,207	38,667	42,048
Calcined .. .. .	4,594	8,338	15,006	18,463	14,522	18,290
France—						
Crude and calcined ..	1,052	346	279	391	484	504
Germany (Federal)—						
Gypsum and phosphatic gypsum .. .. .	52	53	904	178	4,524	8,505
Iceland .. .. .	(a)	115	16	29	(a)	(a)
Netherlands—						
Crude .. .. .	22,692	21,293	29,499	28,119	34,397	79,071
Calcined .. .. .	21,229	24,356	28,865	31,117	28,101	33,887
Ground .. .. .	8,489	8,158	8,613	8,865	4,635	204,930

(a) Information not available.

(b) Including Newfoundland from April 1, 1949.

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

(d) January to October only.

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

## IMPORTS OF GYPSUM (cont.)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
Norway—						
Crude .. .. .	15,567	21,132	20,058	26,368	28,940	28,926
Ground .. .. .	2,336	2,975	2,973	3,597	2,465	3,272
Portugal—						
Crude .. .. .	5,172	7,972	2,838	5,496	4,535	5,866
Calcined .. .. .	9	8	7	13	9	10
Sweden—						
Crude .. .. .	73,741	43,438	72,880	64,151	62,899	83,413
Calcined .. .. .	10,647	8,538	10,827	13,161	13,092	15,357
Switzerland—						
Ground and calcined ..	193	105	181	210	141	150
Algeria—						
Crude .. .. .	(a)	(a)	(a)	(a)	(a)	984
Calcined .. .. .	149	741	2,100	1,955	2,159	3,614
Egypt—						
Crude and ground .. ..	522	984	1,143	473	433	1
Calcined .. .. .	902	859	(a)	(a)	637	35
Morocco (French) .. ..	2,560	1,077	768	(a)	331	(a)
Mozambique—						
Crude .. .. .	1,767	2,431	186	1,713	2,338	(a)
Calcined .. .. .	104	85	41	52	118	(a)
Tunis—						
Calcined .. .. .	16	39	(a)	(a)	(a)	(a)
Costa Rica .. .. .	26	(a)	(a)	(a)	(a)	(a)
Cuba (total imports) ..	1,820	2,762	3,099	4,460	(a)	(a)
United States—						
Crude .. .. .	2,552,865	2,315,472	2,848,750	3,078,640	2,739,201	2,843,118
Ground .. .. .	361	547	639	514	540	534
Calcined .. .. .	10	187	212	269	222	259
Brazil—						
Crude .. .. .	155	141	(a)	248	131	24
Ground .. .. .	179	150	(a)	332	66	6
Colombia—						
Ground .. .. .	55	548	151	(a)	(a)	(a)
Peru—						
Crude .. .. .	(a)	6	16	39	20	(a)
Calcined .. .. .	(a)	—	—	1	3	(a)
Uruguay—						
Ground .. .. .	5,754	13,913	13,442	12,939	(a)	(a)
Venezuela .. .. .	1,043	1,707	(a)	(a)	(a)	(a)
Israel—						
Crude .. .. .	(a)	839	480	(a)	(a)	(a)
Calcined .. .. .		25	96	(a)	(a)	(a)
Japan .. .. .	9,165	(a)	5,000	12,090	15,715	28,386
Philippine Republic—						
Crude .. .. .	(a)	(a)	17,078	8,113	(a)	(a)
Calcined .. .. .	(a)	(a)	223	121	(a)	(a)
Lebanon .. .. .	862	757	15,764	12,904	(a)	(a)
Syria .. .. .			477	15	(a)	(a)

(a) Information not available.

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

Producing Country	ORE										Estimated Iron Content				
	1948	1949	1950	1951	1952	1953	1948	1949	1950	1951	1952	1953			
<b>BRITISH COUNTRIES</b>															
United Kingdom (b) ...	13,089,200	13,396,700	12,963,000	14,776,600	16,232,200	15,817,500	3,927,000	4,019,000	3,899,000	4,433,000	4,870,000	4,745,000			
Northern Rhodesia (c) ...	147	1,721	1,165,039	1,140,325	5,943	2,169	84	1,111	691,000	3,800	3,800	1,300			
Sierra Leone (d) ...	952,599	1,089,036	1,152,459	510,226	63,088	62,034	558,000	643,000	691,000	692,000	692,000	835,000			
Southern Rhodesia ...	29,997	50,672	56,312	51,026	63,088	62,034	17,250	29,100	32,400	29,000	36,700	35,700			
Union of South Africa ...	1,145,350	1,222,423	1,170,465	1,398,702	1,731,122	1,939,595	688,000	737,000	701,000	853,000	1,068,000	1,164,000			
Canada ...	1,104,682	3,281,336	3,218,983	4,179,027	4,707,008	5,804,518	660,000	1,805,000	1,770,000	2,298,000	2,589,000	3,193,000			
Newfoundland ...	1,468,056	59,181	169,374	160,684	127,512	123,200	33,000	33,000	90,000	75,000	60,000	61,000			
Hong Kong ...	2,284,587	2,808,522	2,965,194	3,657,105	3,844,911	3,844,911	1,460,000	1,800,000	1,900,000	2,340,000	2,510,000	2,460,000			
India ...	641	8,390	498,903	846,803	1,025,506	1,062,678	(a)	(a)	279,000	474,000	591,000	595,000			
Malaya ...	2,042,005	1,460,231	2,364,699	2,436,229	2,907,754	3,298,718	1,224,000	1,020,000	1,417,600	1,605,000	1,883,000	2,132,000			
Australia ...	4,776	4,352	3,642	2,496	1,823	2,762	(a)	(a)	(a)	(a)	(a)	(a)			
New Zealand (c) ...	22,123,000	23,383,000	24,576,000	28,649,000	31,911,000	33,325,000									
<b>TOTAL</b>															
<b>FOREIGN COUNTRIES</b>															
Austria ...	1,178,342	1,464,121	1,830,046	2,332,246	2,610,694	2,713,093	353,000	450,000	571,000	740,000	823,000	851,000			
Belgium ...	90,144	43,266	47,000	80,700	135,358	97,320	33,000	15,000	16,400	28,000	47,000	34,000			
Czechoslovakia ...	1,404,500	1,475,000	1,576,000	1,931,000	2,278,000	2,460,000	420,000	443,000	527,000	579,000	683,000	736,000			
Finland (f) ...	22,696,661	30,931,604	29,541,763	34,652,825	40,056,621	41,738,000	7,436,000	10,310,000	8,871,000	11,550,000	13,300,000	10,800			
France ...	7,160,676	8,967,900	10,711,380	12,719,000	15,161,000	14,388,000	1,880,000	2,397,000	2,893,000	3,419,000	4,032,000	3,828,000			
Germany—	300,000	301,000	395,000	481,000	761,000	1,278,000	(a)	(a)	(a)	(a)	(a)	(a)			
Eastern ...	344	2,756	7,286	55,829	160,184	86,938	(a)	(a)	(a)	(a)	(a)	(a)			
Greece ...	313,000	334,000	362,000	393,000	492,000	531,000	122,000	130,000	140,000	160,000	192,000	207,000			
Hungary ...	3,345,387	4,071,984	3,784,368	5,536,277	7,130,442	7,056,411	280,000	270,000	230,000	280,000	408,000	480,000			
Italy ...	196,151	270,944	293,705	326,578	7,537,274	1,167,557	962,000	1,118,000	1,054,000	1,537,000	1,937,000	1,891,000			
Luxembourg ...	649,000	688,000	780,000	887,000	1,011,000	1,324,000	126,000	173,000	190,000	211,000	446,000	746,000			
Norway ...							216,000	230,000	260,000	280,000	320,000	420,000			
Poland ...															

\* For detailed figures see page 139.  
 (a) Information not available.  
 (b) In addition bog ore and iron ore (not used for smelting) are produced.  
 (c) Used mainly or entirely for purposes other than iron production.  
 (d) Including washed fines.  
 (e) Estimated.  
 (f) Concentrates.

PRODUCTION OF IRON ORE (cont.)

Producing Country	ORE												
	1948	1949	1950	1951	1952	1953	1948	1949	1950	1951	1952	1953	
<b>FOREIGN COUNTRIES</b>													
Portugal (cont.)	159	217	—	21,045	87,570	142,682	80	108	—	10,523	43,785	71,341	
Roumania (b)	206,000	319,000	389,000	470,000	644,000	664,000	93,000	144,000	175,000	212,000	290,000	300,000	
Spain	1,604,972	1,846,662	2,087,792	2,351,705	2,818,139	2,909,558	720,000	830,000	945,000	1,058,000	1,370,000	1,310,000	
Sweden	13,077,566	13,512,054	13,396,062	15,139,982	16,681,063	16,715,748	8,075,000	8,292,000	8,152,000	9,089,000	9,957,000	10,000,000	
Switzerland	85,000	54,000	54,000	86,000	104,800	103,600	42,000	(a)	(a)	(a)	(a)	(a)	
U.S.S.R. (b)	31,000,000	35,000,000	44,000,000	50,000,000	55,000,000	60,000,000	383,000	365,000	324,000	257,000	300,000	350,000	
Yugoslavia	850,002	811,885	(f) 719,323	578,170	665,333	782,362	978,000	1,350,000	1,370,000	1,445,000	1,590,000	1,667,000	
Algeria	1,841,064	2,497,400	2,552,200	2,776,100	3,051,658	3,334,800	(a)	(a)	(a)	(a)	(a)	(a)	
Egypt	383	212	—	61	1,069	392,335	(a)	(a)	(a)	(a)	(a)	(a)	
French West Africa	—	—	—	(b) 170,000	(c) 876,974	1,264,974	—	—	—	116,000	596,000	204,000	
Libya	—	—	—	—	—	—	—	—	—	—	—	—	
Morocco (French)	296,500	351,183	316,001	353,911	652,425	508,641	133,000	158,000	144,000	146,000	290,000	271,000	
Morocco (Spanish)	886,281	879,754	937,666	912,415	919,694	970,613	530,000	530,000	560,000	550,000	550,000	580,000	
Tunisia	685,100	700,700	745,900	908,200	961,600	1,040,351	373,000	378,000	403,000	485,000	517,000	560,000	
Cuba	22,588	11,265	1,279	—	87,536	196,676	7,800	3,800	—	(a)	(a)	(a)	
Dominican Republic	—	—	—	—	18,408	90,216	—	—	—	—	12,500	61,300	
Mexico	332,000	357,000	413,000	500,000	557,870	538,550	225,459	242,679	281,000	307,644	334,000	325,946	
United States (c)	102,200,425	85,900,000	99,016,429	117,597,497	98,818,913	119,101,367	51,000,000	43,000,000	49,000,000	58,000,000	49,000,000	60,000,000	
Argentina (b)	33,000	40,000	40,000	50,000	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	
Brazil	1,546,844	1,857,829	1,956,036	2,368,928	3,112,325	3,500,000	1,050,000	1,260,000	1,330,000	1,590,000	2,090,000	2,350,000	
Chile	2,668,125	2,699,593	2,906,591	3,124,204	2,325,363	2,857,579	1,655,000	1,637,000	1,743,000	1,930,000	1,404,000	1,695,000	
Peru (a)	—	—	—	—	932,564	—	—	—	(a)	(a)	(a)	(a)	
Venezuela (b)	—	—	195,159	1,249,559	1,938,692	2,260,132	—	—	(a)	(a)	(a)	(a)	
China (b)	—	—	3,000,000	4,500,000	6,000,000	8,000,000	(a)	(a)	(a)	(a)	(a)	(a)	
Japan (d)	552,202	781,574	912,619	1,149,325	1,372,918	1,655,857	287,000	400,000	483,000	590,000	726,000	901,000	
Korea (South)	—	—	—	50	17,145	18,671	—	—	—	—	—	—	
Lebanon	—	—	—	—	7,000	30,000	—	—	—	—	—	—	
Philippine Republic	18,000	364,326	589,633	889,016	1,151,866	1,198,630	10,400	211,000	342,000	516,000	668,000	695,000	
Portuguese India	8,000	113,883	110,457	429,505	478,353	928,794	4,400	63,000	61,000	237,000	263,000	511,000	
Turkey	—	—	—	2,657	2,811	7,559	—	—	—	—	—	—	
Turkey (cont.)	165,170	214,599	229,902	222,244	474,215	489,428	100,000	129,000	143,000	133,000	284,000	294,000	
New Caledonia	—	—	—	15,127	—	—	—	—	8,600	—	—	—	
<b>TOTAL</b>	195,000,000	197,000,000	224,000,000	266,000,000	270,000,000	304,000,000	—	—	—	—	—	—	
<b>World's Total</b>	217,000,000	220,000,000	249,000,000	295,000,000	302,000,000	337,000,000	—	—	—	—	—	—	

(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): 1948—2,547; 1949—32,599; 1950—99,940; 1951—251,939; 1952—316,920; 1953—532,457.  
 (e) Exports.  
 (f) Revised.



DETAILS OF PRODUCTION OF IRON ORE IN CERTAIN COUNTRIES

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
West Coast hematite ..	325,200	350,100	342,700	347,400	403,100	353,800
Jurassic ironstones—						
Lower lias .. .. .	3,167,200	3,207,100	3,154,900	3,380,800	3,431,600	3,416,200
Middle lias .. .. .	2,537,400	2,665,600	2,557,600	3,393,400	3,574,800	3,738,800
Inferior oolite ..	6,967,000	7,071,200	6,804,300	7,558,200	8,717,900	8,193,500
Coal measure ironstones	200	300	200	—	—	—
Other iron ore (hematite, limonite, etc.) ..	92,200	102,400	103,300	97,300	104,800	115,200
Sierra Leone—						
Red ore .. .. .	546,084	578,592	595,140	552,160	523,852	521,644
Concentrates .. .. .	322,239	406,761	478,674	519,628	566,332	831,797
Washed fines .. .. .	84,276	103,683	91,225	68,537	62,275	13,605
Union of South Africa—						
Hematite .. .. .	1,101,854	1,161,543	1,101,560	1,336,382	1,690,208	(a)
Magnetite .. .. .	—	527	—	—	—	(a)
Carbonate .. .. .	43,496	60,353	68,905	62,320	40,914	(a)
<b>FOREIGN COUNTRIES</b>						
France—						
Phosphoric .. .. .	21,196,614	29,060,314	27,807,440	32,292,401	37,148,963	(a)
Medium phosphoric ..	1,256,801	1,594,978	1,540,670	2,131,842	2,624,825	(a)
Non-phosphoric .. ..	243,246	276,312	193,653	228,582	282,833	(a)
Italy—						
Iron ore .. .. .	534,661	512,616	439,392	544,120	777,756	918,633
Manganiferous iron ore	23,050	28,040	22,828	23,782	39,979	37,720
Luxemburg—						
Siliceous iron ore ..	1,375,086	1,535,401	1,477,261	1,877,341	2,238,363	2,190,739
Calcareous iron ore ..	1,794,503	2,403,628	2,221,572	3,499,369	4,586,210	4,425,488
Ferruginous limestone	175,998	132,955	85,535	159,567	305,869	440,184
Portugal—						
Hematite .. .. .	159	217	—	21,045	85,834	120,367
Magnetite .. .. .	—	—	—	—	1,736	22,315
Sweden—						
Manganiferous iron ore	90,482	113,964	50,096	5,015	45,300	(a)
Other iron ore .. ..	12,986,784	13,398,090	13,345,966	15,134,971	16,635,800	(a)
By phosphorus content						
(b)—						
Under 0.006% .. ..	522,682	566,187	671,284	609,967	681,332	(a)
0.006% to under						
0.04% .. .. .	2,095,515	2,049,273	2,344,547	2,574,457	2,364,320	(a)
0.04% to under 0.1%	78,933	68,217	74,797	91,968	652,432	(a)
0.1% to under 0.7%	4,305,110	4,605,595	4,796,404	5,302,119	5,903,774	(a)
0.7% to under 1%	1,037,628	976,459	1,016,174	1,468,408	1,721,315	(a)
1% and over .. ..	5,037,398	5,246,323	4,492,856	5,093,067	5,357,891	(a)
United States—						
Ore containing less than 5% Mn—						
Hematite (c) .. ..	90,686,138	76,262,577	87,156,235	101,530,954	83,515,561	102,553,404
Magnetite (c) .. ..	7,661,207	6,593,277	7,698,754	11,390,326	11,068,778	12,585,681
Limonite .. .. .	2,176,149	1,545,595	2,615,402	3,014,761	2,729,524	2,238,236
Pyrite cinder and sinter .. .. .	479,998	535,998	574,969	568,631	604,141	617,448
Ore containing 5 to under 10% Mn .. ..	1,070,110	939,492	868,150	998,001	805,992	863,082
Ore containing 10 to under 35% Mn .. ..	126,823	23,361	102,919	94,824	94,917	243,516

(a) Information not available.

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

(c) 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	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom .. .. .	601	355	585	779	564	677
Sierra Leone .. .. .	926,370	974,050	1,142,621	1,184,735	1,378,959	1,200,240
Union of South Africa .. .. .	—	—	—	22,075	—	3,588
Canada (b) .. .. .	955,604	2,277,053	1,988,817	2,880,149	3,434,820	4,303,550
Newfoundland .. .. .	1,731,828					
Hong Kong .. .. .	—	48,535	171,718	171,362	114,031	116,392
India .. .. .	—	4,300	55,322	197,005	668,986	1,094,570
Malaya .. .. .	69,539	462,431	520,899	782,665	1,007,489	1,018,336
Australia .. .. .	40	1	—	—	—	10
<b>Irish Republic—</b>						
Bog ore .. .. .	1,613	(a)	(a)	(a)	(a)	(a)
Burnt pyrites .. .. .	15,291	12,489	33,983	26,402	24,233	14,962
<b>FOREIGN COUNTRIES</b>						
Austria .. .. .	2,792	—	57,360	177,853	272,427	192,251
Belgium-Luxemburg .. .. .	—	—	—	—	—	—
E.U.—						
Iron ore .. .. .	438,022	292,167	101,601	200,160	441,302	870,086
Burnt pyrites .. .. .			2,645	156	5,002	140,563
Czechoslovakia .. .. .	(c) 126,589	(a)	(a)	(a)	(a)	(a)
<b>Denmark—</b>						
Bog ore (e) .. .. .	9,753	7,951	23,064	54,864	175,764	131,062
Burnt pyrites .. .. .	63,337	36,115	49,536	66,835	55,473	66,077
Finland .. .. .	—	—	—	816	470	8,136
France .. .. .	6,210,922	7,120,329	7,425,791	9,682,472	9,225,370	9,837,459
Germany (Federal) (d) .. .. .	231	5,830	51,259	75,223	166,310	193,379
Greece .. .. .	48,935	21,500	40,564	84,920	110,578	97,402
<b>Italy—</b>						
Iron ore .. .. .	4,407	60	9,182	69,473	6,706	4,121
Burnt iron pyrites .. .. .	281,120	309,746	497,295	411,353	384,939	426,791
<b>Netherlands—</b>						
Iron ore .. .. .	(g) 72,030	(g) 66,357	(g) 57,521	—	155	535
Burnt iron pyrites .. .. .	221,941	193,849	244,337	318,787	323,447	258,561
<b>Norway—</b>						
Iron ore .. .. .	180,093	200,313	278,563	264,830	699,578	894,424
Burnt pyrites .. .. .	26,539	36,505	32,729	63,859	117,502	57,029
<b>Portugal—</b>						
Iron ore .. .. .	10	3	1	—	118,527	132,769
Burnt pyrites .. .. .	(a)	(a)	(a)	198,736	319,465	141,968
Spain .. .. .	804,418	973,917	920,742	1,525,465	1,728,237	2,063,431
<b>Sweden—</b>						
Iron ore .. .. .	11,335,971	12,581,280	12,738,629	14,760,104	15,415,625	14,323,156
Burnt iron pyrites .. .. .	122,866	17,271	113,314	244,987	211,027	130,982
Switzerland .. .. .	122,097	90,861	53,370	98,525	109,304	104,284
Yugoslavia .. .. .	(a)	(a)	333,047	276,679	152,857	3,989
Algeria .. .. .	2,157,320	2,598,290	2,433,678	2,796,878	3,073,489	3,198,394
French West Africa .. .. .	—	6,305	68	—	3,344	346,593
Liberia .. .. .	—	—	—	170,000	876,974	1,264,000
Morocco (French) .. .. .	200,089	356,539	308,913	560,673	641,279	472,173
Morocco (Spanish) .. .. .	890,047	878,901	935,882	949,755	954,392	970,600
Tunis (f) .. .. .	739,926	726,943	690,177	896,748	976,864	1,021,119

(a) Information not available.

(b) Including Newfoundland from April 1, 1949.

(c) January to October only.

(d) Including burnt pyrites.

(e) Used for purposes other than iron making.

(f) Including re-exports.

(g) Chiefly used for gas purification.

EXPORTS OF IRON ORE (cont.)

Exporting Country	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
Cuba .. .. .	34,498	10,599	28,999	9,203	107,647	205,900
Dominican Republic .. .. .	—	—	—	—	18,408	90,216
Mexico .. .. .	157,197	170,918	189,082	174,188	112,001	239,048
United States .. .. .	3,080,666	2,424,775	2,549,704	4,295,938	5,121,243	4,251,365
Brazil .. .. .	589,824	664,905	876,067	1,309,139	1,536,163	1,522,800
Chile .. .. .	2,583,542	2,633,047	2,554,901	2,644,169	1,798,637	2,403,038
Peru .. .. .	—	—	—	—	—	932,564
Venezuela (b) .. .. .	—	—	—	635,416	1,845,776	1,949,618
China .. .. .	192,790	(a)	(a)	(a)	(a)	(a)
Lebanon .. .. .	(a)	(a)	(a)	(a)	7,000	(a)
Philippine Republic .. .. .	21,606	(a)	551,510	923,028	(a)	(a)
Portuguese India .. .. .	5,335	48,781	(a)	(a)	456,628	849,813
New Caledonia .. .. .	—	—	4,985	2,923	2,461	(a)

(a) Information not available.

(b) Imports into the United States.

IMPORTS OF IRON ORE.

(Less Re-exports)

(Long tons)

Importing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom ..	8,674,896	8,692,572	8,391,533	8,747,480	9,690,534	10,981,013
Canada .. .. .	3,839,431	2,247,531	2,741,569	3,420,909	3,810,409	3,721,046
India .. .. .	1,519	365	207	533	15	511
Australia .. ..	23	8	5,302	2,916	2,835	1
Irish Republic ..	387	—	174	576	1,000	5
<b>FOREIGN COUNTRIES</b>						
<b>Austria—</b>						
Iron ore .. ..	136,331	268,956	194,666	193,151	602,201	412,051
Burnt pyrites ..	277,502	305,344	388,111	342,553	370,690	346,266
<b>Belgium-Luxemburg</b>						
<b>E.U.—</b>						
Iron ore .. ..	} 8,602,386	{ 8,926,738	8,123,841	10,569,420	10,826,780	11,613,471
Burnt iron pyrites ..						
<b>Czechoslovakia—</b>						
Iron ore .. ..	<i>b</i> 1,570,635	( <i>a</i> )	( <i>a</i> )	( <i>a</i> )	( <i>a</i> )	( <i>a</i> )
Burnt pyrites ..	( <i>b</i> ) 20,297	( <i>a</i> )	( <i>a</i> )	( <i>a</i> )	( <i>a</i> )	( <i>a</i> )
Denmark ( <i>e</i> ) ..	2,335	1,854	1,102	3,512	3,139	3,684
Finland ( <i>c</i> ) ..	149,032	109,219	91,947	176,908	97,637	22,018
France .. .. .	251,852	389,533	165,340	315,251	430,840	973,425
<b>Germany (Federal)—</b>						
Iron ore .. ..	2,390,786	4,446,739	4,793,335	7,580,102	9,489,280	9,889,414
Burnt pyrites ..	( <i>a</i> )	( <i>a</i> )	( <i>a</i> )	( <i>a</i> )	1,613,690	1,850,692
Italy .. .. .	25,957	109,433	180,959	395,657	698,406	722,276
Netherlands ..	( <i>f</i> ) 741,352	( <i>f</i> ) 705,653	( <i>f</i> ) 799,231	987,873	1,162,968	1,247,267
Norway .. .. .	37,583	38,656	15,696	817	4,562	6,394
Poland .. .. .	1,590,827	( <i>a</i> )	( <i>a</i> )	( <i>a</i> )	( <i>a</i> )	( <i>a</i> )
Spain .. .. .	148,464	220,090	234,958	224,047	297,531	( <i>a</i> )
Sweden .. .. .	498	455	484	510	340	136
Switzerland ( <i>d</i> )	69,103	37,378	60,335	95,889	92,640	56,753
Algeria .. .. .	—	—	—	986	—	—
United States ..	6,086,070	7,394,569	8,215,865	10,145,415	9,760,329	11,084,185
Japan .. .. .	522,798	1,535,453	1,402,335	3,040,010	4,692,833	4,222,444

(*a*) Information not available.

(*b*) January to October only.

(*c*) Total imports.

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

(*e*) Bog ore and burnt pyrites.

(*f*) Including a very small amount for gas purification.

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

(Long tons)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom ..	9,276,400	9,498,500	9,632,900	9,668,800	10,727,700	11,174,800
Southern Rhodesia ..	16,434	27,268	33,453	31,641	38,588	35,233
Union of South Africa ..	640,803	697,322	721,339	791,840	1,111,000	1,203,300
Canada .. ..	2,105,780	2,104,087	2,230,018	2,517,094	2,601,520	2,823,987
India .. ..	1,464,623	1,610,822	1,680,481	1,823,946	1,852,910	1,776,269
Australia (b) (e) ..	1,253,477	1,060,346	1,114,421	1,331,176	1,447,312	1,711,599
<b>TOTAL (e) .. ..</b>	<b>14,758,000</b>	<b>14,998,000</b>	<b>15,412,600</b>	<b>16,164,500</b>	<b>17,978,500</b>	<b>18,725,200</b>
<b>FOREIGN COUNTRIES</b>						
Austria .. ..	603,527	824,517	869,145	1,032,862	1,154,309	1,299,849
Belgium .. ..	3,866,937	3,690,076	3,636,420	4,791,232	4,713,947	4,150,488
Czechoslovakia .. ..	1,624,000	1,853,000	2,020,000	2,120,000	2,376,000	2,854,000
Finland .. ..	91,110	99,619	63,259	99,919	106,718	78,236
France (d) .. ..	6,454,956	8,213,135	7,638,292	8,611,726	9,615,007	8,527,101
Germany—						
Federal Republic ..	4,589,360	7,027,400	9,323,263	10,528,000	12,673,000	11,469,668
Eastern .. ..	179,000	288,000	332,000	336,000	641,000	1,051,000
Hungary .. ..	378,000	421,000	(c) 474,000	(c) 498,000	(c) 566,000	(c) 748,000
Italy .. ..	517,763	437,970	563,827	1,032,735	1,186,591	1,288,559
Luxemburg .. ..	2,852,741	2,334,616	2,459,418	3,107,207	3,027,405	2,679,000
Netherlands .. ..	434,500	427,300	447,049	515,486	530,174	584,093
Norway .. ..	211,328	229,920	222,923	241,064	268,812	273,067
Poland (c) .. ..	1,189,000	1,343,000	1,464,000	1,552,000	1,754,000	2,263,000
Roumania (c) .. ..	188,000	270,000	330,000	344,000	384,000	449,000
Saar .. ..	1,116,460	1,557,065	1,657,205	2,332,197	2,510,086	2,344,295
Spain .. ..	528,214	619,164	661,764	659,027	771,985	808,810
Sweden .. ..	790,894	846,174	823,848	891,282	1,096,001	1,040,259
Switzerland .. ..	35,000	31,000	33,000	43,000	42,600	41,700
U.S.S.R. .. ..	13,800,000	16,400,000	19,100,000	21,800,000	24,900,000	27,100,000
Yugoslavia (e) .. ..	182,000	199,000	222,000	258,480	283,863	275,926
Mexico .. ..	278,617	350,141	240,430	196,951	234,643	256,348
United States .. ..	55,278,178	49,032,844	59,285,992	64,686,199	56,566,031	68,973,364
Brazil .. ..	543,098	500,192	717,519	759,830	802,828	864,963
Chile .. ..	14,210	18,413	107,750	236,000	265,660	281,310
China (c) .. ..	(a)	200,000	920,000	1,500,000	1,900,000	2,200,000
Japan .. ..	822,520	1,576,894	2,262,437	3,176,600	3,528,695	4,578,900
Turkey .. ..	100,419	114,862	109,462	(e) 150,969	192,988	209,166
<b>TOTAL .. ..</b>	<b>97,000,000</b>	<b>98,000,000</b>	<b>116,000,000</b>	<b>131,500,000</b>	<b>132,100,000</b>	<b>146,700,000</b>
<b>WORLD'S TOTAL ..</b>	<b>111,000,000</b>	<b>113,000,000</b>	<b>131,000,000</b>	<b>147,700,000</b>	<b>149,900,000</b>	<b>165,400,000</b>

\* For details see page 144.

(a) Information not available.

(b) Years ended June 30 of that stated.

(c) Estimated.

(d) Excluding electric furnace ferro-alloys.

(e) Revised.

**DETAILS OF PRODUCTION OF PIG-IRON AND FERRO-ALLOYS IN CERTAIN COUNTRIES**  
(Long tons)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
<b>United Kingdom—</b>						
Hematite .. .. .	1,366,400	1,437,300	1,476,800	1,333,000	1,426,100	1,391,800
Basic .. .. .	6,255,500	6,248,200	6,478,000	6,674,700	7,528,100	8,069,700
Foundry .. .. .	1,395,600	1,555,300	1,466,500	1,417,100	1,522,000	1,465,800
Forge .. .. .	92,800	87,400	60,500	69,500	74,100	52,300
Castings .. .. .	2,600	2,300	3,000	2,200	1,800	1,500
Spiegeleisen (b) .. .. .	31,500	28,800	18,100	28,800	31,100	29,600
Ferro-manganese (b) .. .. .	132,000	139,200	130,000	143,500	144,500	164,100
<b>Other ferro-alloys (c)—</b>						
Tungsten (d) .. .. .	2,600	2,000	1,700	(a)	(a)	(a)
Molybdenum (d) .. .. .	1,200	1,400	1,600			
Vanadium (d) .. .. .	300	200	300			
Ferro-chrome .. .. .	9,700	9,800	9,900			
Refined ferro-manganese .. .. .	5,300	6,400	6,000			
Ferro-phosphorus .. .. .	1,100	1,100	900			
Ferro-silicon .. .. .	7,500	5,500	4,600			
<b>Union of South Africa—</b>						
Pig-iron .. .. .	629,500	684,300	705,300	774,000	1,082,500	1,173,000
Ferro-alloys .. .. .	11,300	13,000	16,000	17,900	28,500	30,300
<b>Canada—</b>						
Basic .. .. .	1,555,012	1,598,508	1,574,500	1,775,841	1,833,653	2,176,562
Foundry .. .. .	193,077	192,650	212,735	273,450	197,102	152,162
Malleable .. .. .	149,893	132,490	281,623	230,078	363,518	360,803
Ferro-alloys .. .. .	207,798	180,439	161,160	237,725	207,247	134,460
<b>India—</b>						
Basic .. .. .	1,048,487	1,100,286	1,274,069	1,420,950	1,464,456	1,318,540
Foundry .. .. .	356,398	427,575	290,451	287,209	219,808	335,881
Direct castings .. .. .	51,959	19,478	97,594	91,881	129,778	114,934
Ferro-alloys .. .. .	7,779	63,483	18,367	23,906	38,868	6,914
<b>FOREIGN COUNTRIES</b>						
<b>Belgium—</b>						
Basic .. .. .	3,605,582	3,509,329	3,508,173	4,569,414	4,502,179	3,963,151
Forge .. .. .	59,888	16,864	10,865	42,427	30,274	
Foundry .. .. .	183,171	149,935	106,251	165,885	169,860	
Ferro-alloys .. .. .	18,296	13,948	11,131	13,505	11,634	
<b>Finland—</b>						
Pig-iron .. .. .	90,321	98,511	63,259	99,919	106,718	78,236
Ferro-alloys .. .. .	789	1,108	—	—	—	—
<b>France (e)—</b>						
<b>Phosphoric</b>						
<b>(over 1.4% P)—</b>						
Basic .. .. .	5,072,903	6,582,499	6,178,876	6,880,126	7,777,162	7,115,714
Foundry .. .. .	393,018	369,120	281,576	347,504	290,825	207,933
<b>Semi-phosphoric (from</b>						
<b>0.5% to 1.4% P)—</b>						
Foundry .. .. .	129,497	222,228	275,933	360,071	366,689	345,640
Open hearth, basic .. .. .	9,983	13,234	46,332	47,188	26,719	7,358
<b>Hematite (less than</b>						
<b>0.5% P)—</b>						
Foundry .. .. .	210,082	242,976	218,619	196,318	260,012	193,394
Open hearth .. .. .	} 319,752	337,931	193,401	262,291	316,202	166,796
Bessemer .. .. .						
Spiegeleisen .. .. .	91,657	145,520	164,128	146,169	179,115	153,827
Ferro-manganese .. .. .	64,245	83,012	107,694	112,242	111,425	131,717
Other pig-iron and ferro-alloys .. .. .	162,919	216,615	171,733	259,817	286,858	204,722

(a) Information not available.

(b) Blast furnace ferro-alloys.

(c) Excluded from totals on page 143.

(d) Metal content.

(e) Excluding electric furnace ferro-alloys.

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

Producing Country	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Germany (Federal)—</b>						
Hematite .. ..	200,000	317,000	402,000	402,000	499,000	401,728
Malleable .. ..	68,000	108,000	156,000	217,000	201,000	176,055
Basic .. ..	2,943,000	4,593,000	5,755,000	6,419,000	8,008,000	7,364,628
Foundry .. ..	382,000	511,000	732,000	776,000	873,000	594,441
Siegerland Special .. ..	25,000	40,000	66,000	86,000	108,000	85,516
Stahleisen .. ..	855,000	1,299,000	1,966,000	2,220,000	2,554,000	2,479,820
Spiegeleisen .. ..	54,000	65,000	85,000	106,000	134,000	99,970
Other pig-iron .. ..	20,000	37,000	69,000	193,000	135,000	86,487
Ferro-manganese .. ..	7,000	31,000	63,000	72,000	107,000	146,277
Ferro-silicon .. ..	28,000	26,000	30,000	37,000	54,000	34,746
<b>Italy—</b>						
Pig-iron .. ..	442,267	386,639	495,812	937,570	1,084,883	1,203,015
Spiegeleisen .. ..	20,680	17,603	13,422	18,665	10,626	14,317
Ferro-manganese .. ..	17,854	14,720	15,228	20,466	30,395	18,928
Ferro-silicon .. ..	17,550	12,167	17,267	28,455	37,400	27,472
Silico-manganese .. ..	7,273	2,711	8,552	8,641	10,996	7,887
Ferro-chrome .. ..	1,226	1,312	1,163	3,288	2,462	2,784
Ferro-titanium .. ..	61	79	85	135	100	128
Ferro-tungsten .. ..	48	18	43	78	53	17
Ferro-vanadium .. ..	—	8	6	32	64	27
Ferro-molybdenum .. ..	78	132	133	67	206	42
Silico-aluminium .. ..	322	295	414	613	528	654
Other ferro-alloys .. ..	10,404	2,286	11,682	14,725	8,878	13,288
<b>Luxemburg—</b>						
Basic .. ..	2,542,462	2,323,304	2,454,030	3,107,207	3,027,405	2,679,000
Foundry .. ..	40,279	11,312	5,388	—	—	—
<b>Norway—</b>						
Pig-iron .. ..	62,403	60,712	62,407	53,207	57,379	57,915
Ferro-silicon .. ..	43,771	63,592	62,866	67,402	81,965	93,005
Other ferro-alloys .. ..	105,154	105,616	97,650	120,455	129,468	122,147
<b>Saar—</b>						
Basic .. ..	1,011,933	1,436,680	1,553,124	2,154,999	2,311,257	2,144,518
<b>Foundry—</b>						
Hematite .. ..	18,127	30,521	17,657	30,624	16,351	} 199,777
Phosphoric .. ..	62,097	41,247	52,270	116,124	110,345	
Other pig-iron and ferro-alloys .. ..	24,303	48,617	34,154	30,450	72,133	
<b>Spain—</b>						
Pig-iron .. ..	513,319	604,909	646,257	639,892	749,068	785,609
Ferro-manganese .. ..	9,909	8,799	8,846	11,763	11,940	13,677
Ferro-silicon .. ..	4,878	5,362	5,681	6,933	10,665	9,271
Ferro-tungsten .. ..	108	94	67	74	59	32
Ferro-chrome .. ..	(a)	(a)	176	165	253	221
Silico-manganese .. ..	(a)	(a)	647	203	(b)	(b)
<b>Sweden—</b>						
Open hearth, acid .. ..	131,489	} 798,141	} 772,330	} 838,029	} 1,033,749	} 985,259
do. basic .. ..	206,466					
Bessemer, acid .. ..	13,173					
do. basic .. ..	200,024					
Foundry, hematite .. ..	64,921					
do. phosphoric .. ..	106,753					
do. other .. ..	3,388					
Forge .. ..	15,254					
Castings .. ..	12,893					
Spiegeleisen .. ..	—	129	320	1,268	947	640
Ferro-manganese .. ..	6,989	10,294	9,322	9,314	11,320	9,453
Ferro-silicon .. ..	11,902	14,186	14,108	13,862	16,503	15,155
Ferro-silico-manganese .. ..	3,708	4,489	5,431	2,879	5,455	4,897
Ferro-chrome .. ..	10,778	14,648	16,851	18,761	20,345	20,367
Ferro-titanium .. ..	37	56	53	25	86	86
Ferro-tungsten .. ..	1,482	1,525	1,217	815	445	243

(a) Information not available.

(b) Included with ferro-manganese.

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

Producing Country	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Sweden—(cont.)</b>						
Ferro-molybdenum ..	295	574	578	680	691	436
Ferro-vanadium ..	185	158	133	139	118	30
Metallic silicon etc. ..	908	1,595	3,138	3,802	4,106	3,255
Silico-chrome ..	—	13	8	1,003	1,878	124
Metallic chrome ..	2	—	—	—	—	—
Other ferro-alloys ..	147	366	359	705	368	317
<b>Yugoslavia—</b>						
Pig-iron ..	170,000	187,000	209,000	244,512	268,574	265,488
Ferro-alloys ..	12,142	11,850	13,427	13,968	15,289	10,438
<b>United States—</b>						
Basic ..	41,352,735	36,522,639	44,536,108	48,404,026	42,420,704	53,466,529
Bessemer ..	6,903,152	6,303,050	7,223,757	8,076,745	6,647,960	7,241,858
Low phosphorus ..	343,237	269,214	299,480	281,004	274,534	265,237
Foundry ..	2,472,777	2,235,636	2,505,578	2,723,773	2,384,116	2,233,032
Malleable ..	2,313,086	2,151,282	2,840,217	3,003,008	2,785,864	3,378,980
Other pig-iron ..	235,742	207,966	261,742	256,335	230,516	290,640
Ferro-manganese and spiegeleisen ..	718,762	602,705	693,643	773,040	732,864	899,329
Ferro-silicon ..	752,129	595,823	749,703	820,612	668,803	689,588
Other ferro-alloys ..	186,558	144,529	175,764	347,656	420,670	508,171
<b>Japan—</b>						
Pig-iron ..	795,262	1,524,228	2,197,645	3,077,700	3,419,400	4,446,600
Spiegeleisen ..	(a)	900	700	700	1,443	(a)
Ferro-chrome ..	146	700	2,900	3,800	4,418	(a)
Ferro-manganese ..	17,872	31,000	41,100	69,000	68,194	79,100
Ferro-molybdenum ..	—	200	100	100	160	(a)
Ferro-phosphorus ..	541	1,400	2,500	1,900	527	(a)
Ferro-silicon ..	7,320	13,600	10,500	16,500	20,487	22,400
Ferro-titanium ..	18	(a)	(a)	(a)	96	(a)
Ferro-tungsten ..	337	200	700	500	190	(a)
Ferro-nickel ..	—	(a)	(a)	(a)	1,448	(a)
Ferro-silico-manganese ..	(a)	4,700	6,300	6,300	10,955	14,200
Calcium-silicon ..	(a)	(a)	(a)	(a)	1,443	(a)
Other ferro-alloys ..	1,015	(a)	(a)	100	—	(a)

(a) Information not available.



## PRODUCTION OF STEEL INGOTS AND CASTINGS\*

(Long tons)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom ..	14,876,600	15,552,900	16,292,700	15,638,500	16,417,900	17,608,500
Southern Rhodesia ..	8,988	19,287	22,838	27,321	35,712	24,599
Union of South Africa (c)	669,375	719,018	743,125	933,131	1,183,600	1,221,300
Canada .. .. .	2,857,572	2,848,551	3,021,049	3,186,357	3,306,349	3,674,526
India .. .. .	1,255,989	1,352,696	1,437,858	1,499,703	1,578,180	1,506,538
Australia (b) (f) ..	1,372,087	1,202,369	1,242,852	1,473,123	1,551,582	1,829,356
TOTAL (f) .. .. .	21,040,600	21,694,800	22,760,400	22,758,100	24,073,300	25,864,800
<b>FOREIGN COUNTRIES</b>						
Austria .. .. .	637,943	821,397	931,636	1,011,559	1,039,912	1,250,576
Belgium .. .. .	3,858,050	3,788,322	3,717,743	4,973,797	4,987,334	4,375,197
Czechoslovakia .. ..	2,608,000	2,718,000	2,844,000	3,129,000	3,379,000	3,919,000
Finland .. .. .	96,703	107,310	100,757	130,086	146,039	144,365
France .. .. .	7,121,387	9,007,390	8,515,212	9,679,536	10,695,061	9,839,076
Germany—						
Federal Republic ..	5,473,000	9,011,000	11,929,719	13,293,000	15,556,000	15,176,422
Eastern .. .. .	327,000	593,000	979,000	1,527,000	1,863,000	2,143,000
Hungary (d) .. .. .	750,000	835,000	1,006,000	1,215,000	1,374,000	1,480,000
Italy .. .. .	2,091,583	2,023,035	2,325,119	3,014,594	3,479,289	3,443,076
Luxemburg .. .. .	2,414,105	2,235,977	2,411,984	3,028,421	2,954,297	2,617,000
Netherlands .. .. .	320,000	430,000	482,000	545,500	674,173	845,934
Norway .. .. .	72,700	76,200	79,800	86,200	96,519	108,783
Poland .. .. .	1,924,000	2,267,000	2,475,000	2,748,000	3,133,000	3,540,000
Roumania (d) .. .. .	335,000	452,000	549,000	636,000	687,000	708,000
Saar .. .. .	1,208,307	1,729,551	1,868,327	2,561,575	2,778,235	2,641,149
Spain .. .. .	614,204	708,263	802,356	805,261	892,967	890,014
Sweden .. .. .	1,237,066	1,348,735	1,414,146	1,480,170	1,639,365	1,731,077
Switzerland .. .. .	118,000	122,000	128,000	142,000	154,000	155,000
U.S.S.R. .. .. .	18,300,000	22,900,000	26,900,000	30,800,000	33,900,000	37,400,000
Yugoslavia .. .. .	361,000	395,000	421,000	426,848	435,368	506,607
Mexico .. .. .	265,298	339,692	215,107	445,916	591,980	423,163
United States (e) ..	79,143,277	69,623,371	86,460,781	93,928,436	83,185,749	99,651,535
Argentina (d) .. ..	170,000	180,000	200,000	250,000	300,000	300,000
Brazil .. .. .	475,455	595,889	767,155	828,485	881,402	986,172
Chile .. .. .	29,400	31,060	55,050	175,500	241,400	308,130
China (d) .. .. .	(a)	130,000	550,000	780,000	1,180,000	1,450,000
Japan .. .. .	1,686,762	3,062,268	4,771,633	6,399,100	6,877,800	7,541,100
Turkey .. .. .	100,119	101,367	89,351	133,270	151,041	160,032
TOTAL .. .. .	132,000,000	135,000,000	163,000,000	184,000,000	183,000,000	204,000,000
WORLD'S TOTAL ..	153,000,000	157,000,000	186,000,000	207,000,000	207,000,000	230,000,000

\* For details see page 148.

(a) Information not available.

(b) Years ended June 30 of that stated.

(c) Excluding steel castings for which the amounts produced for sale were 59,464 tons, 57,753 tons, 54,500 tons, 56,200 tons in 1950, 1951, 1952 and 1953 respectively.

(d) Estimated.

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

(f) Revised.

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

(Long tons)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
<b>United Kingdom—</b>						
<b>Ingots and castings—</b>						
Open hearth, acid ..	1,398,300	1,367,000	1,310,700	1,259,400	1,238,800	1,132,500
do. basic ..	11,589,300	12,230,000	12,981,200	12,277,400	12,922,600	14,297,600
Bessemer, acid ..	218,300	226,400	247,800	241,400	245,900	263,400
do. basic ..	786,200	818,800	845,700	862,100	887,200	797,600
Ingots, electric ..	526,100	543,700	528,800	574,800	630,000	619,300
Castings, electric ..	180,800	196,000	207,600	244,500	300,200	310,400
All other ingots and castings ..	177,600	171,000	170,900	178,900	193,200	187,700
<b>Southern Rhodesia—</b>						
Ingots ..	8,003	18,242	21,678	26,125	34,497	23,687
Castings ..	985	1,045	1,160	1,196	1,215	912
<b>Union of South Africa—</b>						
<b>Ingots—</b>						
Open hearth and bessemer ..	587,700	621,500	629,400	828,600	1,082,900	1,118,900
Electric ..	96,200	97,500	113,800	104,500	100,700	102,400
Castings (b) ..	(a)	(a)	59,464	57,753	54,500	56,200
<b>Canada—</b>						
<b>Ingots—</b>						
Open hearth, basic ..	2,340,130	2,400,032	2,474,859	2,604,469	2,694,368	3,144,682
do. electric ..	416,176	363,920	469,847	473,328	500,059	435,508
<b>Castings—</b>						
Open hearth, basic ..	30,394	25,599	20,079	27,462	30,964	27,218
Bessemer ..	353	71	207	252	338	258
Electric ..	70,519	58,929	56,057	80,846	80,620	66,860
<b>India—</b>						
<b>Ingots—</b>						
Open hearth, basic ..	1,140,567	1,225,813	1,307,518	1,387,618	1,464,867	1,381,571
do. acid ..	44,542	50,126	47,684	37,243	37,580	37,495
Electric ..	49,018	53,304	58,614	53,270	52,288	61,806
Castings ..	21,862	23,453	24,038	21,572	23,445	25,666
<b>FOREIGN COUNTRIES</b>						
<b>Belgium—</b>						
Ingots, open hearth ..	465,303	430,945	363,338	599,573	616,950	656,725
do. bessemer, basic ..	3,247,487	3,212,876	3,243,932	4,200,659	4,145,493	3,585,226
do. electric ..	79,071	78,871	66,185	110,508	159,051	84,776
Castings ..	66,188	65,630	44,288	63,057	65,840	48,470
<b>France—</b>						
<b>Ingots and castings—</b>						
Bessemer, acid ..	70,467	103,660	73,879	75,442	72,581	79,182
do. basic ..	4,196,335	5,562,293	5,363,258	5,746,954	6,502,072	5,936,789
Open hearth, acid ..	—	1,793	—	6,214	2,256	2,236
do. basic ..	2,302,878	2,713,322	2,547,001	3,093,607	3,325,258	3,143,157
Crucible ..	4,268	2,649	2,119	3,686	3,819	2,691
Electric ..	547,439	623,673	528,955	753,633	789,075	675,021
<b>Of which—</b>						
Ingots ..	6,929,211	8,742,976	8,288,339	9,450,718	10,695,060	9,604,977
Castings ..	192,176	264,414	226,873	228,818	230,341	234,099
<b>Germany (Federal)—</b>						
<b>Ingots—</b>						
Open hearth ..	2,780,000	4,733,000	6,418,000	6,958,000	7,846,000	8,211,196
Bessemer, basic ..	2,469,000	3,993,000	4,968,000	5,597,000	6,825,000	6,104,747
do. acid ..	—	—	—	—	127,000	55
Electric ..	105,000	128,000	214,000	307,000	373,000	370,974
Other ..	25,000	29,000	27,000	31,000	32,000	24,399

(a) Information not available.

(b) Produced for sale.

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

Producing Country	1948	1949	1950	1951	1952	1953
FOREIGN COUNTRIES						
(cont.)						
Germany (Federal)						
—(cont.)						
Castings—						
Open hearth .. .. .	38,000	58,000	138,000	179,000	200,000	189,587
Bessemer .. .. .	30,000	33,000	81,000	105,000	6,000	111,981
Electric .. .. .	22,000	32,000	73,000	100,000	128,000	143,145
Other .. .. .	4,000	5,000	11,000	16,000	19,000	20,338
Italy—						
Ingots .. .. .	2,011,491	1,945,573	2,239,242	2,916,630	3,369,519	3,338,051
Castings .. .. .	80,092	77,462	85,877	97,964	109,770	105,025
Luxemburg—						
Open hearth .. .. .	267	59	—	—	—	—
Bessemer, basic .. .. .	2,363,930	2,191,107	2,347,441	2,958,858	2,896,796	2,568,000
Electric .. .. .	49,908	44,811	64,543	69,563	57,501	49,000
Norway—						
Ingots .. .. .	64,300	67,900	71,000	77,200	84,064	95,371
Castings .. .. .	8,400	8,300	8,800	9,000	12,455	13,412
Saar—						
Ingots—						
Open hearth .. .. .	290,913	416,060	437,205	553,118	634,384	637,839
Bessemer, basic .. .. .	882,256	1,267,884	1,385,420	1,937,479	2,074,857	1,947,383
Electric .. .. .	20,510	25,524	23,555	46,766	43,261	29,538
Castings—						
Open hearth .. .. .	1,696	2,066	2,430	2,904	4,380	5,332
Bessemer, acid .. .. .	3,303	3,280	2,768	3,793	4,122	4,122
Electric .. .. .	9,629	14,737	16,949	17,515	17,231	16,935
Spain—						
Open hearth and						
bessemer .. .. .	561,175	657,135	715,526	706,750	784,582	750,650
Electric .. .. .	53,029	51,128	86,830	98,511	108,385	139,364
Sweden—						
Open hearth, acid .. .. .	180,043	203,661	198,884	211,038	218,949	193,726
do. basic .. .. .	486,618	472,946	496,145	494,249	535,817	505,827
Bessemer, acid .. .. .	27,563	27,317	27,857	28,236	30,646	28,238
do. basic .. .. .	117,782	129,654	115,628	143,076	125,783	205,738
Electric .. .. .	425,060	515,157	575,632	603,751	728,170	797,548
Yugoslavia—						
Open hearth .. .. .	352,000	382,000	407,000	412,821	418,668	487,607
Electric .. .. .	10,000	13,000	14,000	14,027	16,700	9,000
United States—						
Ingots—						
Open hearth, acid .. .. .	479,494	364,604	425,362	540,169	481,525	453,370
do. basic .. .. .	70,178,624	62,221,385	76,429,590	82,423,536	73,283,539	89,050,585
Bessemer .. .. .	3,788,547	3,523,800	4,048,712	4,366,916	3,146,140	6,451,812
Crucible and electric	4,440,724	3,292,033	5,292,419	6,288,720	5,985,477	3,442,594
Castings (b)—						
Open hearth, acid .. .. .	78,814	87,801	111,118	155,430	146,188	123,500
do. basic .. .. .	102,494	48,355	54,027	65,256	58,782	81,316
Electric .. .. .	74,580	85,393	99,553	88,409	84,098	48,358
Japan—						
Open hearth .. .. .	1,141,851	2,386,900	3,838,400	5,290,000	5,747,137	6,184,000
Bessemer, basic .. .. .	—	75,800	191,300	193,000	196,843	339,000
Electric .. .. .	544,911	599,000	740,500	916,100	934,007	1,018,100

(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	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
<b>United Kingdom—</b>						
<b>Pig-iron—</b>						
Forge and foundry ..	1,072	3,459	15,490	3,641	119	1,257
Refined .. .. .	429	6,401	16,574	11,986	4,410	4,825
Other .. .. .	3	21	3,355	340	196	303
Spiegeleisen and ferro-manganese .. .. .	3,236	9,267	2,530	1,437	1,785	950
Ferro-tungsten .. .. .	1,082	911	1,171	394	96	133
Ferro-molybdenum .. .. .	70	131	147	78	232	312
Ferro-titanium .. .. .	309	490	568	535	519	366
Ferro-vanadium .. .. .	131	87	209	58	73	125
Other ferro-alloys .. .. .	278	326	622	358	621	898
Iron and steel ingots .. .. .	95	134	84	130	22	64
<b>Blooms, billets and slabs—</b>						
Iron .. .. .	7	18	29	7	10	132
Steel .. .. .	3,862	2,602	5,856	4,407	87	512
Special steel .. .. .	1,734	210	761	721	40	300
Old and scrap (c) .. .. .	3,158	1,545	6,310	2,378	545	1,743
<b>Channel Islands (Jersey)—</b>						
Scrap .. .. .	2,353	2,236	1,349	1,836	1,497	2,804
<b>Southern Rhodesia—</b>						
Pig-iron .. .. .	2,792	4,490	6,135	8,162	3,666	4,671
<b>Union of South Africa—</b>						
Pig-iron .. .. .	881	287	17,701	3,163	8,507	5,353
Ferro-alloys .. .. .	615	690	969	1,900	(a)	(a)
Ingots, blooms, billets, etc. .. .. .	1,535	784	39	56	(a)	(a)
Tool and drill steel .. .. .	746	434	337	252	(a)	(a)
<b>British West Indies—</b>						
<b>Trinidad and Tobago—</b>						
Old and scrap .. .. .	2,275	4,373	3,000	600	10,407	16,058
<b>Canada—</b>						
Pig-iron .. .. .	591	11,166	173,686	199,674	335,703	308,406
Spiegeleisen .. .. .	645	500	316	—	—	508
Ferro-chrome .. .. .	20,103	16,204	29,389	39,046	39,545	30,200
Ferro-manganese .. .. .	66,517	31,507	23,724	60,275	27,937	610
Ferro-silicon .. .. .	55,095	59,310	53,271	69,262	71,574	48,578
Other ferro-alloys .. .. .	7,083	6,146	2,655	1,466	2,993	471
Billets, ingots and blooms .. .. .	31,940	60,853	152,196	34,855	50,292	113,404
Old and scrap .. .. .	4,655	35,692	55,909	35,539	78,382	366,079
Tinplate scrap .. .. .	22,359	19,688	21,483	23,266	25,347	23,301
<b>Hong Kong (including re-exports)—</b>						
Pig-iron .. .. .	25	42	34	34	—	—
Special steel .. .. .	51	347	602	1,624	2	34
Old and scrap .. .. .	27,261	13,647	39,576	57,564	42,265	41,321
Tinplate scrap .. .. .	(a)	(a)	(a)	(a)	(a)	1,372
<b>India—</b>						
Pig-iron .. .. .	39,751	68,142	30,402	51,399	8,573	17,700
Old and scrap .. .. .	53	263	—	32,439	325,315	390,795
<b>Malaya (including re-exports)—</b>						
Pig-iron .. .. .	3,160	125	93	332	169	76
Scrap .. .. .	53,074	50,531	19,556	38,878	110,739	82,955
Tinplate scrap .. .. .	312	106	52	1,080	1,986	1,613

(a) Information not available.

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

(c) Excluding ships intended for breaking up as follows (long tons):—1948—10,528; 1949—12,496; 1950—4,542; 1951—314; 1952—Nil; 1953—Nil.

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

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Australia—						
Pig-iron .. ..	61,311	17,705	11,054	5,812	64,700	211,216
Ferro-alloys .. ..	113	8	124	82	120	112
Ingots, blooms and billets .. ..	10,583	9,382	3,859	1,580	5,831	161,678
Old and scrap .. ..	14,445	9,569	(c) 10,674	(c) 17,586	(c) 9,861	118,262
New Zealand—						
Scrap .. ..	(a)	2,856	3,547	8,926	12,643	33,831
Irish Republic—						
Old and scrap .. ..	12,779	10,461	7,569	8,082	12,183	18,520
<b>FOREIGN COUNTRIES</b>						
Austria—						
Pig-iron .. ..	220,100	331,344	410,546	354,367	521,859	519,648
Iron ingots and bars .. ..	3,945	3,410	3,687	37	300	83,605
Steel ingots and bars .. ..	9,707	16,330	20,184	25,593	27,293	131
Scrap .. ..	50,560	19,332	2,667	2,382	11,372	10,072
Belgium-Luxemburg						
E.U.—						
Pig-iron .. ..	52,753	21,359	26,357	40,252	12,987	21,657
Ferro-alloys .. ..	1,112	128	268	73	154	16
Crude iron and steel ingots .. ..	3,102	12,318	3,051	27,758	6,243	10,290
Steel blooms and billets .. ..	193,327	395,014	280,496	391,171	515,372	340,015
Special steel .. ..	15,890	507	700	11,216	17,513	(a)
Old and scrap .. ..	22,036	17,229	32,686	10,315	55,661	175,848
Czechoslovakia—						
Ferro-alloys .. ..	—	(a)	(a)	(a)	(a)	(a)
Billets, blooms and bars of puddled iron .. ..	(b) 2,898	(a)	(a)	(a)	(a)	(a)
Old and scrap .. ..	(b) 623	(a)	(a)	(a)	(a)	(a)
Denmark—						
Old and scrap .. ..	61,780	15,375	29,274	9,308	12,010	19,389
Finland—						
Pig-iron .. ..	11,314	13,200	22,384	13,447	7,056	3,026
Ferro-alloys .. ..	—	424	150	265	—	—
Old and scrap .. ..	8	7	3	552	358	2,392
France—						
Pig-iron .. ..	87,570	193,061	284,400	323,062	309,954	273,959
Spiegeleisen .. ..	1,801	5,984	17,642	9,818	10,770	1,209
Ferro-manganese .. ..	102	172	34,388	28,846	18,287	42,460
Ferro-silicon .. ..	1,355	734	2,643	11,562	4,074	2,539
Ferro-chrome .. ..	25	172	2,370	4,338	4,599	6,232
Other ferro-alloys .. ..	120	335	1,170	893	917	1,631
Ingots .. ..	2,192	2,177	3,061	13,706	2,080	13,643
Blooms and billets, forged or rolled .. ..	20,496	158,910	454,965	285,788	174,808	324,682
Old, filings and scrap .. ..	58,410	177,529	457,603	160,227	87,170	468,584
Germany (Federal)—						
Pig-iron .. ..	61,888	90,301	466,565	453,823	325,678	199,823
Ferro-manganese .. ..	—	36	510	} 1,536	2,551	60,555
Ferro-silicon, etc. .. ..	18	—	85			
Other ferro-alloys .. ..	112	603	2,056			
Rough blooms, bars, ingots, etc. .. ..	4,994	15,676	93,797	26,818	67,883	146,145
Old and scrap .. ..	548,072	2,432,096	2,545,531	721,537	428,515	478,298
Greece—						
Scrap .. ..	4,389	2,373	66	14,038	26,868	9,789

(a) Information not available.

(c) Years ended June 30 of that stated.

(b) January to October only.

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

Exporting Country and Description	1948	1949	1950	1951	1952	1953
FOREIGN COUNTRIES (cont.)						
Italy—						
Pig-iron .. ..	11	301	16	1	6	—
Spiegeleisen .. ..	—	80	1	—	2,633	—
Ferro-manganese .. ..	—	597	285	466	694	1,147
Ferro-silicon .. ..	2,721	2,791	22,307	13,617	20,112	3,571
Ferro-silico-manganese .. ..	25	—	361	1,562	3,282	427
Ferro-chrome .. ..	—	20	195	528	200	67
Other ferro-alloys .. ..	—	8	172	527	183	—
Ingots, blooms and sheet bar .. ..	17	50	395	1	98	266
Scrap .. ..	3,316	169	1,157	55	109	604
Netherlands—						
Pig-iron and ferro-alloys .. ..	274,947	231,006	252,225	239,084	219,256	196,261
Ingots, blooms and billets .. ..	2,446	6,871	14,782	8,269	3,281	1,727
Old and scrap .. ..	40,288	25,964	151,967	30,308	58,728	150,240
Norway—						
Pig-iron—electric .. ..	36,135	19,098	26,095	39,665	35,614	26,579
Ferro-chrome .. ..	15,464	14,559	16,152	21,624	19,414	14,293
Ferro-manganese .. ..	58,133	52,879	82,178	79,161	83,488	64,361
Ferro-silicon .. ..	34,964	40,329	52,805	49,343	54,736	55,086
Ferro-silico-manganese .. ..	9,411	8,022	19,183	22,482	17,797	11,580
Other ferro-alloys .. ..	20	46	665	342	87	5
Steel ingots .. ..	9	28	3	1,175	537	3
Old and scrap .. ..	352	129	1,187	238	1,746	789
Poland—						
Pig-iron and ferro-alloys .. ..	(a)	(a)	(a)	(a)	(a)	(a)
Portugal—						
Old and scrap .. ..	23,576	14,193	17,311	23,509	15,497	11,946
Spain—						
Pig-iron .. ..	5,388	20,216	647	39,495	30,366	46,766
Iron and steel ingots and blooms .. ..	1	13	7	9	1	(a)
Old and scrap .. ..	1	—	38	—	18	753
Sweden—						
Pig-iron .. ..	19,544	30,835	68,208	66,657	50,559	99,360
Sponge iron .. ..	4,670	4,356	8,517	14,073	8,657	12,022
Ferro-manganese .. ..	117	725	981	369	365	364
Spiegeleisen .. ..	—	—	—	—	92	—
Ferro-silicon .. ..	1,134	1,234	5,653	4,794	5,783	3,573
Ferro-silico-manganese .. ..	20	203	878	220	82	3
Ferro-chrome .. ..	271	1,079	4,624	5,150	6,488	5,694
Ferro-tungsten .. ..	704	759	758	347	107	93
Other ferro-alloys .. ..	224	290	442	800	707	67
Steel ingots .. ..	—	—	19	9,196	8,527	4,940
Steel blooms .. ..	98	—	137	—	92	—
Tool steel .. ..	519	325	436	688	436	427
Other special steel .. ..	1,670	1,924	2,553	2,607	1,961	1,608
Old, filings and scrap .. ..	3,088	2,975	4,381	4,685	5,849	5,445
Switzerland—						
Pig-iron and steel, etc. .. ..	3,206	7,201	9,927	525	65	500
Ferro-chrome and ferro-silicon .. ..	1,728	1,569	1,289	3,724	3,235	1,369
Old, filings and scrap .. ..	3,602	998	30,781	5,852	7,266	2,630
Yugoslavia—						
Ferro-chrome .. ..	(a)	(a)	2,216	3,206	1,689	1,853
Ferro-manganese .. ..			1,321	846	2,322	1,335
Silico-manganese .. ..			143	1,283	359	1,132
Ferro-silicon .. ..			475	845	329	30
Other ferro-alloys .. ..			—	167	20	(a)
Algeria—						
Old, filings and scrap .. ..	19,644	2,413	63,731	78,805	68,020	77,440

(a) Information not available.

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

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
Egypt (including re-exports)						
Scrap .. .. .	20	216	118	—	115	(a)
Morocco (French)—						
Old and scrap .. .. .	9,545	9,693	19,422	(a)	21,955	(a)
Mozambique—						
Scrap .. .. .	1,105	1,270	159	1,688	2,768	(a)
Tunis—						
Scrap .. .. .	(a)	46,773	24,202	68,804	44,979	34,000
Cuba—						
Old and scrap .. .. .	34,636	12,344	18,215	29,764	(a)	(a)
Mexico—						
Ferro-alloys .. .. .	—	—	1	486	918	—
Ingots .. .. .	—	—	3	—	—	—
United States—						
Pig-iron .. .. .	6,279	72,597	6,083	5,853	12,576	16,819
Ferro-manganese and spiegeleisen .. .. .	17,630	5,917	841	641	1,327	993
Ferro-chrome .. .. .	6,030	1,964	309	214	1,138	542
Ferro-molybdenum .. .. .	531	426	526	662	487	239
Ferro-vanadium .. .. .	107	87	37	55	131	70
Ferro-silicon .. .. .	2,211	2,281	1,771	2,478	6,464	1,516
Ferro-tungsten .. .. .	560	277	149	127	132	16
Ferro-titanium .. .. .	429	160	153	157	290	165
Other ferro-alloys .. .. .	47,474	4,791	38,283	49,391	39,772	21,127
Steel ingots, slabs, blooms, billets and sheet bars .. .. .	195,840	185,147	53,347	119,003	635,778	60,602
Old and scrap .. .. .	183,322	262,280	186,406	196,344	299,381	259,979
Tin plate scrap and waste .. .. .	29,246	41,865	55,309	56,765	3,570	5,195
Brazil—						
Pig-iron .. .. .	64,169	11,456	(a)	(a)	5,642	(a)
Ferro-manganese .. .. .	49	177	(a)	4,532	1,060	(a)
Ferro-nickel .. .. .	—	—	(a)	54	89	(a)
Ferro-silicon .. .. .	1,019	672	(a)	1,705	830	(a)
Chile—						
Ferro-manganese .. .. .	4,885	6,533	4,178	6,445	1,975	2,210
Ingots .. .. .	349	—	49	48,330	53,866	11,969
Iran (b)—						
Ingots, old and scrap .. .. .	(a)	(a)	(a)	(a)	(a)	(a)
Japan—						
Ferro-chrome .. .. .	} 520	} 1,252	1,319	251	14	49
Ferro-manganese .. .. .			2,496	3,630	7,972	23,573
Ferro-silicon .. .. .			451	(a)	(a)	972
Other ferro-alloys .. .. .			2,737	1,260	652	557
Ingots, blooms and billets .. .. .	(a)	(a)	77,365	37,678	175,229	115,695
Scrap .. .. .	95,665	116,924	67,863	9,754	1,840	263
Korea (South)—						
Scrap .. .. .	(a)	(a)	492	57,331	101,735	15,117
Turkey—						
Ingots and blocks .. .. .	2,710	738	—	23,319	18,849	(a)
Ferro-alloys .. .. .	(a)	(a)	(a)	1,968	—	(a)
Old and scrap .. .. .	2,784	1,130	2,658	20,686	41,730	11,707

(a) Information not available.

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

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

(Less Re-exports)

(Long tons)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Sponge-iron .. ..	200	403	335	923	678	961
Pig-iron—						
Charcoal .. ..	3,426	40	411	1,143	2,242	646
Forge and foundry .. ..	1,483	—	6,269	5,481	2,471	—
Hematite .. ..	37,373	110,827	25,300	53,282	107,982	114,924
Basic .. ..	15,574	148,931	159,454	237,785	613,389	573,941
Other pig-iron .. ..	1,500	2,021	3,149	3,440	5,402	3,122
Spiegeleisen and ferro-manganese .. ..	—	—	485	1,167	718	762
Ferro-silicon .. ..	58,832	65,148	65,608	64,136	84,433	62,752
Ferro-silicon-chrome .. ..					588	171
Ferro-chrome .. ..	15,773	10,054	12,117	22,279	33,729	16,821
Other ferro-alloys .. ..	11,794	9,125	11,246	13,074	14,302	250
Iron and steel ingots .. ..	19,180	8,188	432	1,274	352,785	137,128
Blooms, billets, slabs—						
Iron .. ..	37	112	47	2	17	1,002
Steel .. ..	162,388	299,200	160,751	102,657	387,014	394,413
Special steel .. ..	11,816	1,701	139	27	15,724	6,568
Old and scrap (b) .. ..	857,621	2,097,162	1,958,310	589,429	728,386	861,028
Anglo-Egyptian Sudan—						
Pig-iron .. ..	100	—	—	248	—	(a)
Crude iron and steel .. ..	3,402	5,358	5,022	5,673	8,341	12,220
Kenya—						
Pig-iron .. ..	379	1,000	300	201	558	923
Ingots, blooms, etc. .. ..	19	—	1	6	—	—
Mauritius—						
Pig-iron .. ..	17	20	25	20	14	4
Northern Rhodesia—						
Pig, ingots, etc. .. ..	1,760	4,116	5,484	6,580	5,122	5,607
Southern Rhodesia—						
Pig, ingots, etc. .. ..	2,436	1,070	297	698	4,340	2,520
Tool and drill steel .. ..	651	480	425	269	199	127
South West Africa—						
Pig-iron .. ..	46	1	107	3	86	(a)
Tanganyika—						
Pig-iron .. ..	105	330	189	356	209	233
Ferro-alloys .. ..	(a)	(a)	20	76	—	60
Ingots, blooms, etc. .. ..	12	21	2	1	1	2
Union of South Africa—						
Pig-iron and steel ingots .. ..	630	610	656	198	194	(a)
Ferro-silicon .. ..	9	171	11	5	—	(a)
Ferro-manganese .. ..	29	83	18	39	56	(a)
Other ferro-alloys .. ..	425	203	78	161	61	(a)
Tool and drill steel .. ..	1,324	1,146	2,487	1,891	4,492	677
British West Indies—						
Jamaica—						
Pig-iron .. ..	—	120	—	—	(a)	(a)
Trinidad and Tobago—						
Pig-iron .. ..	10	22	6	(c) 57	1	23
Ingots, etc. .. ..	—	1	3	203	153	12

(a) Information not available.

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

Year	Long tons
1948 .. ..	75,640
1949 .. ..	43,886
1950 .. ..	124,890
1951 .. ..	52,511
1952 .. ..	116,203
1953 .. ..	203,832

(c) Excess of re-exports.



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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
<i>(cont.)</i>						
Canada (b)—						
Pig-iron .. ..	6,587	18,331	26,454	19,299	1,487	22,754
Sponge iron .. ..	—	—	9	39	6	8
Ferro-manganese .. ..	484	1,327	908	261	1,454	932
Ferro-silicon .. ..	486	441	2,443	4,256	4,875	449
Ferro-tungsten .. ..	172	135	96	450	220	28
Silico-manganese .. ..	53	18	73	302	136	16
Other ferro-alloys .. ..	1,191	684	708	520	1,197	1,294
Ingots, blooms and billets .. ..	46,911	53,633	22,918	106,175	129,791	25,437
Scrap .. ..	281,944	254,353	163,525	95,953	183,685	89,404
Newfoundland (c)—						
Pig-iron and ferro-alloys	186	(c)	(c)	(c)	(c)	(c)
Ceylon—						
Pig-iron .. ..	124	1,107	707	1,482	470	398
Cyprus—						
Pig-iron .. ..	421	655	1,788	132	299	10
Old and scrap .. ..	123	305	(d) 1,075	(d) 2,076	(d) 317	(d) 926
Hong Kong (total imports)—						
Pig-iron .. ..	419	1,618	1,493	241	651	370
Ingots, blooms and billets .. ..	(a)	68	196	588	459	345
Special steel .. ..	72	124	522	673	162	664
Old and scrap .. ..	9,998	6,474	3,194	9,440	3,877	4,865
India—						
Pig-iron .. ..	294	23	322	14	20	—
Ingots, blooms and billets .. ..	321	11,912	70,857	33,322	28,047	12,134
Tool steel .. ..	51	344	155	227	737	629
Ferro-alloys .. ..	854	2,100	1,111	3,718	88	954
Old and scrap .. ..	(e) 7,241	7,029	11,664	3,861	(d) 12,883	(d) 44,511
Malaya (total imports)—						
Pig-iron .. ..	632	726	3,565	13,668	2,719	639
Scrap .. ..	718	2,466	6,032	2,209	3,383	1,549
Timplate scrap .. ..	—	—	25	3,798	25	6,074
Pakistan (f)—						
Pig-iron .. ..	(a)	(a)	(a)	5,640	615	5,956
Ferro-alloys .. ..	(a)	(a)	(a)	320	33	360
Ingots, blooms and billets .. ..	(a)	(a)	(a)	10,480	32,729	46,395
Tool steel .. ..	(a)	(a)	(a)	24	27	15
Old and scrap .. ..	(a)	(a)	(a)	3,526	303	—
Australia—						
Pig-iron .. ..	400	1,020	12,647	11,503	6,232	—
Ferro-manganese .. ..	64	709	389	80	56	111
Ferro-chrome .. ..					1,513	1,154
Ferro-molybdenum .. ..	(g) 1,161	(g) 815	1,000	2,253	56	51
Other ferro-alloys .. ..					862	331
Ingots and billets of high grade carbon alloy steels .. ..	6	585	754	220	673	21
Other high grade carbon alloy steels .. ..	79	187	1,172	1,163	1,860	206
Scrap .. ..	(d) 228	(d) 1,156	(e) 1,665	470	748	218
New Zealand—						
Pig-iron .. ..	16,237	8,117	14,298	6,709	15,398	4,341
Ferro-alloys .. ..	(a)	46	276	185	251	54
Billets and blooms .. ..	7,326	2,293	4,736	4,249	6,114	4,883
Special steel .. ..	323	893	1,576	644	1,029	1,219

(a) Information not available.

(b) Including Newfoundland from April 1, 1949.

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

(d) Excess of re-exports.

(e) Total imports.

(f) Years ended March 31 following that stated.

(g) Years ended June 30th of that stated.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
Irish Republic—						
Pig-iron .. ..	3,586	3,989	8,687	3,788	3,199	2,914
Ferro-alloys .. ..	—	30	771	692	81	99
Ingots, blooms and billets .. ..	2	552	3,670	4,780	6,412	21
Old and scrap .. ..	185	1,747	1,832	—	741	8
FOREIGN COUNTRIES						
Austria—						
Pig-iron .. ..	836	2,071	2,411	2,041	1,824	460
Ferro-manganese .. ..	1,913	3,379	5,413	4,444	6,862	2,709
Ferro-silicon .. ..	1,107	2,001	2,717	3,289	5,558	2,415
Other ferro-alloys .. ..	2,640	4,494	6,399	4,713	5,410	4,384
Iron ingots .. ..	859	430	327	2,546	12,312	1,939
Steel ingots .. ..	181	258	1,476	8,130	52,065	—
Scrap .. ..	19,178	42,826	70,438	58,968	45,379	32,463
Belgium-Luxemburg E.U.—						
Pig-iron .. ..	69,293	91,000	82,295	117,217	223,903	172,594
Ferro-manganese .. ..	84,982	52,667	47,316	78,626	81,421	49,651
Other ferro-alloys .. ..		15,209	9,705	20,800	19,597	12,673
Crude iron ingots .. ..	1,056	118	1,908	95	2,288	78,241
Steel ingots .. ..	99	110	90	148	199	79
Blooms and billets .. ..	2,759	4,654	9,636	4,221	7,450	19,214
Special steel .. ..	5,450	5,398	6,751	8,204	10,746	(a)
Old and scrap .. ..	352,515	325,061	388,790	259,073	185,112	246,111
Czechoslovakia—						
Pig-iron—						
Foundry .. ..	(b) 49,682	(a)	(a)	(a)	(a)	(a)
For refining or puddling .. ..	(b) 266	(a)	(a)	(a)	(a)	(a)
Other ferro-alloys .. ..	(b) 9,907	(a)	(a)	(a)	(a)	(a)
Ingots .. ..	(b) —	(a)	(a)	(a)	(a)	(a)
Billets, blooms, bars of puddled iron .. ..	(b) 72	(a)	(a)	(a)	(a)	(a)
Old and scrap .. ..	(b) 135,968	(a)	(a)	(a)	(a)	(a)
Denmark—						
Pig-iron .. ..	22,217	36,173	52,821	54,937	47,929	40,791
Ferro-chrome .. ..	6,988	11,745	174	235	329	8,201
Ferro-manganese, etc. .. ..			756	2,241	1,278	
Ferro-silicon .. ..			3,971	3,954	4,402	
Other ferro-alloys .. ..			422	235	29	
Old and scrap .. ..	2,769	3,050	3,214	1,658	2,536	1,723
Finland (total imports)—						
Pig-iron .. ..	18,667	23,128	7,788	7,399	21,136	6,344
Billets .. ..	18,619	19,463	13,929	33,272	38,207	16,957
Ferro-manganese and spiegeleisen .. ..	1,618	1,030	696	1,637	1,186	1,165
Other ferro-alloys .. ..	1,493	1,787	950	1,230	2,831	2,100
Old and scrap .. ..	62,631	33,301	13,385	4,118	41,728	31,673
France—						
Pig-iron—hematite .. ..	16,766	10,328	7,860	10,860	12,457	35,763
do. other .. ..	671	13	2,116	3,682	3,511	10,183
Spiegeleisen .. ..	12,048	2,568	2,406	1,915	2,736	3,140
Ferro-manganese .. ..	244	148	102	153	479	563
Ferro-silicon .. ..	250	69	1,495	18	59	60
Ferro-chrome .. ..	659	501	5	1	—	4
Other ferro-alloys .. ..	51	49	172	22	36	18
Ingots .. ..	1,675	10,339	1,993	5,039	1,425	13
Blooms and billets, rolled or forged .. ..	33,172	2,412	23,423	67,168	44,320	80,329
Old, filings and scrap .. ..	42,001	14,264	3,501	5,999	9,321	15,966

(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	1948	1949	1950	1951	1952	1953
FOREIGN COUNTRIES						
<i>(cont.)</i>						
Germany (Federal)—						
Pig-iron .. .. .	—	—	11,200	30,557	145,371	65,727
Ferro-manganese .. .. .	2,365	3,427	1,369	} 24,833	29,961	16,990
Ferro-silicon, etc. .. .. .	13,849	7,341	8,225			
Other ferro-alloys .. .. .	5,426	2,004	3,526			
Rough blooms, ingots, bars, etc. .. .. .	69	121	8,496	6,588	153,369	89,291
Old and scrap .. .. .	916	4,664	43,524	10,314	25,871	161,880
Greece—						
Pig-iron .. .. .	6,452	10,307	15,441	11,125	11,493	5,251
Italy—						
Pig-iron .. .. .	130,238	206,811	206,010	140,547	100,493	95,148
Spiegeleisen .. .. .	58	—	1,537	3,329	4,064	2,142
Ferro-chrome .. .. .	524	1,534	1,924	907	1,407	2,198
Ferro-manganese .. .. .	4,719	2,939	1,696	219	19	162
Ferro-molybdenum .. .. .	61	26	85	78	218	277
Other ferro-alloys .. .. .	705	369	299	192	329	984
Steel ingots .. .. .	32,000	24,784	61,884	28,563	28,811	22,289
Steel blooms and sheet bar .. .. .	2,060	2,514	47,312	98,871	65,809	104,371
Old and scrap .. .. .	128,034	383,802	495,083	673,368	673,744	1,009,577
Netherlands—						
Pig-iron .. .. .	996	2,696	8,302	6,688	3,412	3,470
Ferro-alloys .. .. .	3,601	5,169	6,518	7,546	7,062	5,173
Ingots, blooms, billets, etc. .. .. .	1,511	1,819	3,701	4,008	3,852	37,420
Old and scrap .. .. .	1,705	1,154	3,181	2,294	3,574	3,513
Norway—						
Pig-iron .. .. .	1,533	1,770	3,796	28,222	16,277	15,054
Ferro-tungsten and ferro-vanadium .. .. .	56	2	19	3	21	19
Other ferro-alloys .. .. .	87	6	20	45	93	76
Ingots .. .. .	102	314	29	56	289	503
Alloyed steel .. .. .	1,355	1,455	(a)	(a)	(a)	(a)
Old and scrap .. .. .	4,097	31,918	6,735	4,817	5,528	4,214
Portugal—						
Iron and steel ingots .. .. .	} 15,247	13,248	11,797	} 13,880	7,283	8,981
Ferro-alloys .. .. .						
Old and scrap .. .. .						
Spain—						
Pig-iron .. .. .	—	228	25	2,738	1,600	1,238
Ferro-manganese .. .. .	36	2	3,476	866	4,403	5,460
Other ferro-alloys .. .. .	143	697	1,147	280	448	978
Special steel .. .. .	2,108	1,549	1,906	1,208	2,729	4,324
Old and scrap .. .. .	33,325	47,105	80,270	47,726	23,885	32,756
Sweden—						
Pig-iron .. .. .	98,644	93,597	100,368	72,934	116,862	52,003
Spiegeleisen .. .. .	—	20	128	—	57	15
Ferro-manganese .. .. .	2,073	1,866	2,258	2,327	1,445	1,850
Ferro-chrome .. .. .	2,140	2,255	2,035	2,462	1,612	1,310
Ferro-silicon and ferro-silico-manganese .. .. .	968	690	401	218	392	292
Ferro-tungsten .. .. .	5	24	72	10	—	1
Other ferro-alloys .. .. .	273	495	411	679	262	786
Tool steel .. .. .	16	8	1	9	17	4
Old, filings and scrap .. .. .	93,357	147,463	172,830	78,608	92,378	34,243

(a) Information not available.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
FOREIGN COUNTRIES						
(cont.)						
Switzerland—						
Pig-iron, steel billets, blooms, etc. . . . .	143,043	55,396	85,745	91,158	103,795	53,903
Ferro-chrome and ferro-silicon . . . . .	4,434	1,321	1,280	8,037	3,070	1,375
Old, filings and scrap . .	60,792	53,013	4,950	1,890	318	8,460
Yugoslavia—						
Pig-iron . . . . .	(a)	(a)	23,712	20,374	17,643	11,576
Ferro-alloys . . . . .			206	207	144	186
Ingots, blooms and billets . . . . .			1,582	2,012	2,595	4,854
Scrap . . . . .			67,746	12,963	21,274	3,872
Algeria—						
Pig-iron . . . . .	2,531	1,748	1,555	1,282	1,738	774
Spiegeleisen and ferro-alloys . . . . .	221	291	171	456	475	418
Ingots, blooms and billets . . . . .	112	3,310	13,777	18,540	17,421	12,038
Old, filings and scrap . .	1,173	3,507	281	253	147	318
Belgian Congo—						
Pig-iron . . . . .	(a)	(a)	993	1,440	(a)	2,430
Ferro-alloys . . . . .	(a)	(a)	158	401	(a)	312
Egypt—						
Pig-iron and spiegeleisen	1,636	4,543	12,911	6,683	3,153	2,575
Ferro-alloys . . . . .	268	545	244	973	657	795
Ingots, billets, etc. . . .	514	1,190	5,588	2,549	541	8
Special steel . . . . .	1,739	1,228	1,906	746	934	1,351
Scrap (total imports) . .	3,700	3,875	2,499	4,196	3,133	2,568
Madagascar—						
Blooms, billets, etc. . . .	7,213	(a)	(a)	(a)	(a)	(a)
Morocco (French)—						
Pig-iron . . . . .	968	1,258	1,167	(a)	1,310	(a)
Ferro-alloys . . . . .	141	76	39	(a)	160	(a)
Scrap, etc. . . . .	3,458	2,253	2,259	(a)	1,573	(a)
Tunis—						
Pig-iron . . . . .	96	127	101	45	(a)	14
Steel ingots and billets . .	9,116	(a)	(a)	(a)	(a)	(a)
Old and scrap . . . . .	(a)	197	217	36	(a)	1,887
Cuba (total imports)—						
Iron ingots . . . . .	106	271	492	934	(a)	(a)
Mexico—						
Pig-iron . . . . .	—	1,933	913	1,219	1,723	1,501
Ferro-manganese . . . . .	1,337	2,395	2,372	940	894	123
Other ferro-alloys . . . .	845	1,606	1,980	2,917	2,861	1,200
Steel ingots, blooms and billets . . . . .	34	173	1,036	50	5	9
Scrap . . . . .	32,202	101,714	117,254	117,892	129,523	115,250
United States—						
Pig-iron . . . . .	195,269	89,110	710,683	952,244	366,638	526,630
Spiegeleisen . . . . .	—	1,553	7,737	—	39	701
Ferro-chrome . . . . .	8,052	6,577	19,315	24,368	19,067	29,716
Ferro-manganese . . . . .	87,697	58,048	96,691	106,932	57,227	112,963
Ferro-silicon . . . . .	6,557	6,641	13,162	26,323	11,450	12,324
Ferro-titanium . . . . .	25	34	116	222	100	154
Ferro-tungsten . . . . .	—	28	785	901	281	336
Sponge iron . . . . .	2,838	3,099	6,733	11,445	5,420	5,335
Bar-iron, slabs, blooms, etc. . . . .	170	316	345	625	284	155

(a) Information not available.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>United States—(cont.)</b>						
Steel ingots, blooms, etc. . . . .	20,790	46,706	161,178	124,665	54,566	119,363
Scrap . . . . .	370,600	977,154	621,589	320,624	94,550	116,246
Tin plate scrap . . . . .	41,084	41,028	42,394	51,571	42,659	37,478
<b>Argentina—</b>						
Pig-iron . . . . .	111,856	80,961	91,824	69,646	114,760	83,686
Ferro-manganese . . . . .	2,222	1,722	2,217	2,394	1,480	2,169
Ferro-silicon . . . . .	2,084	1,155	1,140	2,348	1,320	987
Ingots . . . . .	45,664	62,574	160,984	177,680	246,036	167,897
Old and scrap . . . . .	43,365	88,150	61,756	17,790	13,743	2,137
<b>Brazil (total imports)—</b>						
Pig-iron, etc. . . . .	993	1,694	(a)	1,652	1,591	(a)
Ferro-manganese . . . . .	49	55	(a)	13	—	59
Ferro-silicon . . . . .	93	565	(a)	28	(a)	(a)
Special steel . . . . .	221	882	(a)	107	463	(a)
Filings . . . . .	45	28	(a)	113	299	(a)
<b>Chile—</b>						
Ingots . . . . .	1,116	1,076	305	1,700	(a)	(a)
Ferro-manganese . . . . .	132	(a)	(a)	(a)	(a)	(a)
Ferro-silicon . . . . .	387	156	853	1,331	1,173	530
<b>Colombia—</b>						
Pig-iron . . . . .	(a)	1,261	1,793	98	490	(a)
<b>Peru—</b>						
Pig-iron . . . . .	(a)	1,130	1,269	681	446	(a)
Ferro-alloys . . . . .	(a)	66	100	173	110	(a)
<b>Uruguay—</b>						
Ingots . . . . .	7,741	6,332	11,222	16,137	(a)	(a)
Ferro-manganese . . . . .	172	133	66	370	(a)	(a)
Ferro-silicon . . . . .	365	231	116			
Other ferro-alloys . . . . .	15	—	14			
<b>Iran (b)—</b>						
Ingots, etc. old and scrap . . . . .	(a)	(a)	(a)	1,361	(a)	(a)
<b>Israel—</b>						
Pig-iron . . . . .	(a)	2,561	2,450	(a)	(a)	(a)
Ferro-alloys . . . . .	(a)	9	3	(a)	(a)	(a)
<b>Japan—</b>						
Pig-iron . . . . .	10,802	135,844	1,551	42,396	6,538	2,425
Ferro-alloys . . . . .	(a)	(a)	(a)	914	1,828	2,190
Old and scrap . . . . .	—	—	43,926	210,763	497,777	1,122,749
<b>Turkey—</b>						
Iron ingots and blocks	—	—	—	9	(a)	(a)
Ferro-alloys . . . . .	661	659	413	103	115	242
Steel ingots and blocks	1	—	—	—	(a)	(a)
Special steel . . . . .	400	600	951	2,878	2,613	(a)
Old and scrap . . . . .	55	16	5	13	2	45

(a) Information not available.

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

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

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Great Britain .. .. .	2,394	2,465	3,288	4,847	5,687	7,992
Nigeria .. .. .	269	28	12	4	27	35
Northern Rhodesia (b) ..	13,020	13,945	13,685	13,970	12,600	11,510
Southern Rhodesia .. ..	—	81	—	—	—	40
South West Africa .. ..	33,068	37,785	33,151	38,611	52,008	58,292
Tanganyika (f) .. .. .	—	—	642	1,537	2,371	2,755
Uganda .. .. .	10	54	30	4	7	16
Union of South Africa ..	160	165	593	879	562	483
Canada (d) .. .. .	149,331	142,656	147,944	141,278	150,752	176,097
Newfoundland .. .. .	19,745					
Hong Kong .. .. .	—	—	—	—	378	322
India (e) .. .. .	430	650	1,040	1,300	1,440	2,020
Australia .. .. .	216,955	213,491	219,176	224,799	233,040	245,164
<b>TOTAL .. .. .</b>	<b>435,000</b>	<b>411,000</b>	<b>419,600</b>	<b>427,300</b>	<b>458,900</b>	<b>504,700</b>
Irish Republic (c) .. ..	—	83	245	779	1,872	898
<b>FOREIGN COUNTRIES</b>						
Austria .. .. .	3,427	4,606	4,530	4,861	5,910	5,562
Finland .. .. .	71	128	140	213	213	214
France .. .. .	7,524	9,846	12,234	10,874	12,093	(e) 12,300
Germany (Federal) .. ..	24,087	40,298	44,230	49,581	50,782	61,948
Greece .. .. .	1,284	1,154	(a) 2,722	2,722	3,116	3,640
Italy .. .. .	30,000	34,418	37,841	38,126	38,014	36,304
Norway .. .. .	261	296	224	407	406	517
Poland (e) .. .. .	17,000	17,000	20,000	20,000	21,000	21,000
Portugal .. .. .	625	734	1,290	1,595	1,891	1,669
Roumania (e) .. .. .	4,000	4,000	4,000	4,000	5,000	6,000
Spain .. .. .	26,860	30,597	38,833	40,167	42,435	53,974
Sweden .. .. .	23,207	23,523	22,315	19,382	20,991	25,088
U.S.S.R. (smelter) (g) (h)	82,000	103,000	125,000	170,000	200,000	240,000
Yugoslavia .. .. .	55,000	71,000	84,676	77,506	77,721	83,807
Algeria .. .. .	1,030	1,118	1,379	2,785	4,153	7,734
Belgian Congo .. .. .	394	177	—	—	—	—
French Equatorial Africa	2,560	719	1,785	2,466	3,563	4,350
Morocco (French) .. ..	27,790	36,483	47,452	67,107	82,289	79,071
Morocco (Spanish) .. ..	110	95	220	420	720	660
Tunis .. .. .	13,011	14,700	18,961	20,910	22,902	24,103
Guatemala (g) .. .. .	2	685	1,892	2,731	4,132	4,181
Honduras .. .. .	125	391	275	446	530	(a)

- (a) Information not available.  
(b) Smelter.  
(c) Revised.  
(d) Amount estimated as recoverable.  
(e) Estimated.  
(f) Exports.  
(g) Imports into the United States.

**CORRECTION**—Footnotes against U.S.S.R. (smelter) should read (c) (e) not (g) (h).

PRODUCTION OF LEAD ORE (cont.)

Producing Country	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b> (cont.)						
Mexico (b) .. ..	190,264	217,277	234,318	221,907	242,142	218,049
United States (b) ..	348,639	365,989	384,667	346,575	348,358	305,183
Argentina (estimated) ..	21,000	18,000	23,000	23,600	21,000	17,800
Bolivia (exports) ..	25,205	25,895	30,684	30,076	29,539	23,412
Chile .. ..	6,125	2,814	(c) 3,266	7,678	6,534	(d) 4,000
Ecuador .. ..	265	372	221	(a)	112	59
Peru .. ..	47,771	64,325	63,888	81,049	96,520	120,958
Burma .. ..	35	(a)	1,098	5,815	3,861	(d) 9,000
Iran (estimated) ..	(a)	(a)	2,000	(a)	(a)	(a)
Japan .. ..	6,578	8,990	10,718	12,667	17,206	18,359
Korea (South) .. ..	256	141	130	130	130	130
Philippine Republic ..	71	541	865	562	2,264	2,396
Siam .. ..	(a)	180	680	1,300	1,089	3,525
Turkey .. ..	4,353	570	190	740	1,470	6,671
TOTAL (c) .. ..	966,000	1,099,000	1,220,000	1,264,000	1,368,000	1,402,000
WORLD'S TOTAL (c)	1,401,000	1,510,000	1,640,000	1,692,000	1,828,000	1,908,000

(a) Information not available.

(b) Amount estimated as recoverable.

(c) Revised.

(d) Estimated.

**METAL PRODUCTION OF LEAD**  
(Long tons)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom (b) ..	2,200	2,100	3,000	4,100	3,900	4,800
Northern Rhodesia ..	13,020	13,945	13,685	13,970	12,600	11,510
South West Africa ..	80	—	—	—	—	—
Canada .. .. .	142,879	130,490	151,806	144,643	163,342	147,993
India .. .. .	625	593	626	859	1,132	1,694
Australia (d) .. ..	189,662	184,374	198,593	198,774	197,326	209,513
<b>TOTAL .. .. .</b>	<b>348,500</b>	<b>331,500</b>	<b>367,700</b>	<b>362,300</b>	<b>378,300</b>	<b>375,500</b>
<b>FOREIGN COUNTRIES</b>						
Austria (c) .. .. .	9,201	9,426	10,738	10,971	10,240	10,984
Belgium (c) .. .. .	62,507	77,580	61,113	69,530	74,232	75,145
Czechoslovakia .. ..	5,680	(a)	(a)	(a)	(a)	(a)
France .. .. .	34,154	53,580	60,269	47,218	53,508	54,045
Germany (Federal) .. (c)	48,602	53,689	65,567	74,862	91,218	106,073
Greece .. .. .	3,419	4,019	3,324	5,261	4,356	5,640
Italy .. .. .	26,327	28,011	36,877	35,904	33,759	37,394
Poland .. .. .	16,607	(b) 17,100	(b) 20,000	(b) 20,000	(b) 21,000	(b) 21,000
Portugal .. .. .	229	299	582	713	1,048	869
Roumania (b) .. .. .	4,000	4,000	4,000	4,000	4,000	5,000
Spain .. .. .	21,708	32,499	39,928	44,005	45,808	48,021
Sweden .. .. .	6,129	10,587	16,417	9,160	10,905	15,898
U.S.S.R. (b) (f) .. ..	82,000	103,000	125,000	170,000	200,000	240,000
Yugoslavia .. .. .	48,437	55,864	56,301	59,119	66,119	69,678
Morocco (French) .. ..	—	—	—	18,100	27,800	27,000
Tunis .. .. .	17,675	19,190	23,164	22,544	25,103	26,849
Guatemala .. .. .	(a)	67	267	(a)	(a)	(a)
Mexico .. .. .	191,456	225,660	217,362	195,535	215,122	201,906
United States (e) .. ..	357,359	424,877	450,937	370,204	421,830	417,610
Argentina .. .. .	21,139	17,752	18,700	23,700	19,600	12,800
Bolivia (exports) .. ..	—	—	—	505	20	677
Peru .. .. .	34,187	36,650	31,451	43,655	49,472	59,393
Burma .. .. .	7,400	846	—	148	1,812	8,609
China (b) .. .. .	(a)	(a)	4,000	5,000	6,000	(a)
Japan .. .. .	6,862	7,476	9,826	10,570	14,917	17,444
Korea (South) .. .. .	295	98	(a)	(a)	124	(a)
<b>TOTAL .. .. .</b>	<b>1,005,000</b>	<b>1,188,000</b>	<b>1,260,000</b>	<b>1,250,000</b>	<b>1,400,000</b>	<b>1,470,000</b>
<b>WORLD'S TOTAL .. ..</b>	<b>1,353,000</b>	<b>1,520,000</b>	<b>1,628,000</b>	<b>1,612,000</b>	<b>1,778,000</b>	<b>1,845,000</b>

(a) Information not available. (b) Estimated. (c) Including secondary metal.

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

Year	Long tons	Year	Long tons
1948 .. .. .	30,165	1951 .. .. .	31,872
1949 .. .. .	32,621	1952 .. .. .	37,709
1950 .. .. .	37,021	1953 .. .. .	34,050

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

Year	Long tons	Year	Long tons
1948 .. .. .	446,492	1951 .. .. .	462,598
1949 .. .. .	368,021	1952 .. .. .	420,798
1950 .. .. .	430,603	1953 .. .. .	434,587

(f) Revised.



EXPORTS OF LEAD, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
<b>United Kingdom—</b>						
Ore .. .. .	2	—	(a)	(a)	(a)	(a)
Pig-lead .. .. .	714	770	448	1,126	9,385	663
Sheets and pipes .. .. .	2,093	1,604	2,428	2,399	1,668	1,154
White lead .. .. .	2,921	2,483	4,846	4,133	1,389	1,403
Litharge, red lead, etc.	5,684	3,276	6,067	4,802	3,304	3,036
<b>Northern Rhodesia—</b>						
Pig, bar and ingot .. .. .	13,189	12,347	12,379	11,568	10,716	11,915
<b>South West Africa—</b>						
Copper-lead-vanadate ores and concentrates (f) .. .. .	67,671	79,440	72,761	(g) 38,528	(g) 54,824	(g) 58,154
Pig-lead .. .. .	80	—	—	—	—	(a)
<b>Southern Rhodesia—</b>						
Ore .. .. .	—	—	12	—	—	63
<b>Tanganyika—</b>						
Concentrates (Pb content) .. .. .	—	—	642	1,537	2,371	2,755
<b>Union of South Africa—</b>						
Ore .. .. .	169	363	532	869	580	44
Pig, ingot and sheets .. .. .	461	151	144	76	88	(a)
<b>Canada (b)—</b>						
Ore (Pb content) .. .. .	5,006	17,760	17,210	17,543	21,399	55,074
Pig-lead, etc. .. .. .	92,645	101,369	102,828	94,407	115,840	91,857
Scrap .. .. .	(a)	1,702	1,602	1,269	4,655	467
Pipes and tubes .. .. .	(a)	242	85	62	44	56
White lead .. .. .	1,586	524	926	2,576	376	1
<b>Newfoundland (c)—</b>						
Concentrates .. .. .	37,137	(c)	(c)	(c)	(c)	(c)
<b>Hong Kong—</b>						
Ore and concentrates .. .. .	(a)	(a)	(a)	(a)	850	595
Crude and refined unwrought (incl. alloys) (d) .. .. .	(a)	2,035	247	1,022	248	154
Scrap (d) .. .. .					108	6
Bars, sheets, pipes, etc. (d) .. .. .	782	692	294	1,030	179	1
<b>Malaya (including re-exports)—</b>						
Pig-lead .. .. .	1,844	732	1,602	1,111	266	846
Sheets and pipes .. .. .	3	3	8	9	12	75
<b>Australia—</b>						
Ores and concentrates (Pb content) .. .. .	(e) 16,416	5,615	7,926	14,490	22,758	39,864
Matte (Pb content) .. .. .	49	2	1	—	—	—
Pig-lead .. .. .	116,744	104,719	125,630	106,180	141,431	148,433
Base bullion .. .. .	27,843	37,734	34,074	33,138	31,414	42,338
Scrap .. .. .	4,646	2,536	39	2	35	12,146
Sheets and pipes .. .. .	457	331	434	845	202	213
White lead .. .. .	348	442	623	781	1,181	(e) 361
<b>New Zealand—</b>						
Scrap .. .. .	(a)	526	463	369	1,143	927
<b>Irish Republic—</b>						
Ore .. .. .	207	371	502	1,573	2,762	2,413
Scrap .. .. .	(a)	(a)	(a)	(a)	1,474	1,982

(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) Including re-exports.

(e) Years ended June 30 of year stated.

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

(g) Pb content.

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

Exporting Country and Description	1948	1949	1950	1951	1952	1953	
<b>FOREIGN COUNTRIES</b>							
Austria—							
Pig-lead, alloys etc. . .	(a)	{	2,913	2,291	1,614	2,362	3,225
Scrap . . . . .			22	34	—	—	—
Red and white lead etc.			121	604	16	78	38
Belgium-Luxemburg							
E. U.—							
Pig-lead . . . . .	43,703	47,427	44,887	46,756	59,490	49,179	
Scrap . . . . .	62	105	70	148	111	68	
Sheets, bars, pipes and wire . . . . .	4,230	3,453	6,796	7,913	3,513	3,240	
Red and white lead, etc.	3,540	3,273	5,029	2,860	1,548	2,917	
Bulgaria—							
Ore and concentrates . .	(a)	(a)	(a)	(a)	(a)	(a)	
Czechoslovakia—							
Ore . . . . .	(b) —	(a)	(a)	(a)	(a)	(a)	
Pig-lead, ashes, scrap and alloys . . . . .	(b) 303	(a)	(a)	(a)	(a)	(a)	
Red and white lead, etc.	(b) —	(a)	(a)	(a)	(a)	(a)	
Denmark—							
Pig-lead . . . . .	2,604	2,978	5,205	5,640	7,026	4,330	
Scrap . . . . .	459	372	698	338	199	49	
Sheets and pipes . . . .	8	9	13	59	9	21	
France—							
Ore . . . . .	114	1,338	2,211	753	235	1,175	
Pig-lead, including argentiferous and antimonial . . . . .	1,433	17,085	20,927	2,846	6,414	11,373	
Scrap . . . . .	40	158	40	22	10	2	
Bars, sheets, alloys . . .	591	1,054	786	1,250	1,026	640	
Red and white lead, etc.	344	1,035	1,312	1,710	977	838	
Germany (Federal)—							
Ore . . . . .	1,639	886	10	—	—	—	
Pig-lead, alloys and scrap . . . . .	7	55,995	57,827	18,426	30,779	36,851	
Sheets, pipes, wire, etc.	5	110	1,500	4,099	76	199	
Red and white lead . . .	5	2,072	6,944	10,436	5,799	7,264	
Greece—							
Pig-lead . . . . .	323	71	—	363	997	783	
Italy—							
Ore . . . . .	6,289	4,362	3,081	5,433	6,918	7,690	
Pig-lead, scrap and alloys . . . . .	24,551	3,002	692	1,041	870	30	
Sheets, wire and alloys . .	41	217	219	—	375	1,558	
Red and white lead . . .	(a)	(a)	242	443	173	189	
Netherlands—							
Pig-lead . . . . .	1,421	1,816	1,512	1,907	2,986	4,480	
Scrap . . . . .	3,768	2,261	2,239	4,299	974	1,885	
Sheets and wire . . . . .	529	436	560	287	1,695	898	
Red and white lead . . .	105	380	742	698	695	543	
Norway—							
Ore . . . . .	420	544	395	804	522	1,081	
Pig-lead . . . . .	15	105	29	39	329	57	
Scrap . . . . .	1,598	549	755	741	1,085	1,275	
Portugal—							
Ore . . . . .	217	49	—	—	—	—	
Pig-lead, etc. . . . .	15	—	28	23	2	5	
Red and white lead . . .	10	(a)	11	21	29	15	
Spain—							
Ore . . . . .	1	—	—	—	—	(a)	
Pig-lead and scrap . . .	8,601	2,815	12,631	15,913	11,889	20,146	
Sheets, wire, etc. . . . .	424	403	582	1,115	2,886	1,613	

(a) Information not available.

(b) January to October only.

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

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b> (cont.)						
<b>Sweden—</b>						
Ore .. .. .	23,237	10,536	14,725	10,987	11,785	8,214
Pig-lead and scrap .. ..	546	1,696	3,757	662	1,583	5,087
Sheets and pipes .. .. .	15	30	31	39	12	16
Red and white lead, etc. ..	133	207	111	99	128	403
<b>Switzerland—</b>						
Ores, etc. .. .. .	162	176	648	839	662	652
Pig-lead, scrap, etc. .. ..	23	143	259	349	1,371	987
Sheets and pipes .. .. .	13	25	2	12	1	4
<b>Yugoslavia—</b>						
Concentrates .. .. .	(a)	(a)	5,869	—	492	(a)
Pig-lead .. .. .	(a)	(a)	52,571	50,899	61,032	60,246
Scrap .. .. .	(a)	(a)	50	163	353	680
<b>Algeria—</b>						
Ore .. .. .	2,542	1,343	2,893	3,081	7,449	6,283
Pig-lead .. .. .	95	232	72	65	13	81
Scrap .. .. .	1,324	1,194	1,442	2,670	1,251	1,497
Red and white lead .. .. .	195	—	9	3	1	3
<b>French Equatorial Africa—</b>						
Ore .. .. .	10,012	5,285	3,740	3,937	5,905	8,744
<b>Morocco (French)—</b>						
Ore, matte and slag .. .. .	8,563	55,900	55,035	52,653	67,615	71,070
Scrap, etc. .. .. .	383	339	12,213	14,357	37,095	(a)
<b>Morocco (Spanish)—</b>						
Ore .. .. .	352	138	656	648	1,281	(a)
<b>Tunis (including re-exports)—</b>						
Ore .. .. .	6	296	(a)	(a)	—	6
Pig-lead and bars .. .. .	13,705	18,600	23,043	22,273	24,425	25,809
<b>Guatemala (c)—</b>						
Ore ( <i>Pb content</i> ) .. .. .	2	685	1,892	2,731	4,132	4,181
<b>Mexico—</b>						
Ores and concentrates .. ..	14,402	20,988	6,322	8,666	4,096	15,267
Pig-lead, refined .. .. .	211,982	179,957	248,333	163,854	198,537	202,422
Base bullion .. .. .	8,770	—	1	1	93	144
Pig-lead, antimonial .. .. .	11,009	5,874	8,819	11,729	3,678	2,553
<i>Pb content</i> (b) .. .. .	176,499	175,712	241,178	154,847	231,447	204,991
<b>United States—</b>						
Ore, mattes and base bullion ( <i>Pb content</i> ) .. ..	8	1,443	119	498	746	927
Pig-lead, bars etc. .. .. .	356	866	2,442	1,144	1,573	717
Scrap .. .. .	—	667	1,407	530	67	2,416
Sheets and pipes .. .. .	849	690	316	972	1,150	450
Red and white lead, etc. ..	2,018	2,766	2,657	2,134	2,093	2,208
<b>Bolivia—</b>						
Ore, etc. ( <i>Pb content</i> ) .. ..	25,205	25,895	30,684	30,076	29,539	23,412
Metal .. .. .	—	—	—	505	20	677
<b>Ecuador—</b>						
Concentrates .. .. .	501	677	757	—	190	(a)
<b>Peru—</b>						
Ore and concentrates ( <i>Pb content</i> ) .. ..	7,857	16,569	28,164	39,023	46,326	(a)
Pig-lead ( <i>Pb content</i> )—						
Pure .. .. .	37,396	35,393	30,795	41,355	40,093	(a)
Impure .. .. .	371	401	271	347	1,552	(a)

(a) Information not available.

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

(c) Imports into the United States.

EXPORTS OF LEAD, ETC. (cont.)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b> (cont.)						
Iran—						
Ore .. .. .	837	504	(b) 3,500	(a)	(a)	(a)
Japan—						
Pig-lead .. .. .	—	24	17,735	233	138	113
Sheets and plates .. .. .	} (a)	(a)	{ 5,732 }	23	108	{ 22
Tubes .. .. .						
Philippine Republic—						
Ores and concentrates..	(a)	(a)	1,023	516	(a)	(a)
Scrap .. .. .	(a)	(a)	340	310	(a)	(a)
Siam—						
Ore .. .. .	(a)	235	850	(a)	(a)	6,528
Turkey—						
Ore .. .. .	—	492	—	953	101	1,914
Ingots .. .. .	(a)	(a)	(a)	224	492	(a)
Old and scrap .. .. .	(a)	(a)	(a)	148	—	(a)

(a) Information not available.

(b) Estimated.

**IMPORTS OF LEAD, ETC.**

*(Less Re-exports)*

*(Long tons)*

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Ore and concentrates ..	219	64	(a)	(a)	(a)	(a)
Pig-lead .. .. .	160,865	186,395	171,686	175,196	113,598	161,435
Scrap, incl. alloys ..	1,053	1,910	2,559	1,294	4,376	10,008
Sheets and pipes ..	373	—	—	3	6	3
Litharge, red lead, etc.	—	50	—	164	35	2
Anglo-Egyptian Sudan—						
Unwrought incl. scrap	7	16	(d) 1	(d) 72	(d) 63	(a)
White lead .. .. .	—	1	—	—	32	(a)
Gold Coast—						
Bars, sheets, etc. ..	184	350	515	162	119	415
Kenya (e)—						
Bars, sheets, pipes, etc.	38	17	25	36	31	5
Mauritius—						
Pig-lead, sheets, pipes, etc. .. . . .	(a)	23	28	13	17	33
Nigeria—						
Bars and sheets ..	84	169	135	153	40	103
Northern Rhodesia—						
Sheets, foils and pipes	5	31	59	30	16	77
White lead .. .. .	—	—	5	11	5	1
Sierra Leone—						
Bar and sheets ..	7	5	16	8	6	5
Southern Rhodesia—						
Pig-lead, bars, sheets and foil .. . . .	139	142	242	397	198	147
Red and white lead, etc.	204	71	28	52	42	30
South West Africa—						
Bars, sheets and pipes ..	16	28	17	11	14	(a)
Red and white lead, etc.	10	8	2	1	1	(a)
Tanganyika—						
Bars, sheets and pipes, etc. .. . . .	7	8	8	3	24	3
Uganda—						
Bars, sheets, pipes, etc.	(f)	3	5	30	2	1
Union of South Africa—						
Pig-lead and bars ..	8,355	7,120	11,161	14,949	8,428	10,139
Sheets and pipes ..	21	104	40	67	76	(a)
Foil .. .. .	1	2	1	2	2	(a)
Litharge, red and white lead .. . . .	1,432	1,022	833	323	131	(a)
British West Indies—						
Jamaica—						
Pig-lead, etc. ..	30	104	56	56	46	91
Trinidad and Tobago—						
Pig-lead .. .. .	(d) 27	(d) 72	14	(d) 8	(d) 1	1
Red and white lead, etc. .. . . .	140	475	61	99	61	139
Canada (b)—						
Pig-lead and scrap ..	68	2,317	1,257	(d) 78	433	252
Bars, sheets and pipes ..	4	6	17	2	3	27
White lead, red lead and litharge .. . . .	253	304	727	594	587	860
Newfoundland (c)—						
Bars, pipes and sheets..	39	(c)	(c)	(c)	(c)	(c)

(a) Information not available.

(b) Including Newfoundland from April 1, 1949.

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

(d) Excess of re-exports.

(e) Including Uganda up to 1948 inclusive.

(f) Included with Kenya.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
<i>(cont.)</i>						
<b>Ceylon—</b>						
Pig-lead .. .. .	30	22	19	13	13	45
Sheets and pipes .. .. .	23	6	33	25	9	29
Tea-lead .. .. .	—	4	—	2	—	6
<b>Cyprus—</b>						
Sheets and pipes, etc. .. .. .	6	10	18	122	34	36
<b>Hong Kong (total imports)—</b>						
Ore and concentrates .. .. .	(a)	(a)	(a)	(a)	58	—
Crude and refined unwrought (incl. alloys) .. .. .	(a)	674	226	375	52	147
Scrap .. .. .					98	29
Bars, sheets, pipes, etc. .. .. .	596	368	235	1,120	48	25
<b>India—</b>						
Ore .. .. .	714	6	31	214	56	83
Pig-lead, bars, etc. .. .. .	8,534	6,180	14,814	7,680	4,092	5,169
Sheets, pipes and tubes .. .. .	101	430	207	177	191	156
Tea-lead .. .. .	—	—	71	4	—	3
Litharge, red and white lead, etc. .. .. .	5	40	277	17	89	5
<b>Malaya (total imports)—</b>						
Pig-lead .. .. .	35	198	43	142	279	205
Sheets, pipes etc. .. .. .	69	46	70	136	97	78
<b>Pakistan (b)—</b>						
Pig-lead, bars, etc. .. .. .				132	416	5
Sheets, pipes and tubes .. .. .				58	(a)	(a)
Litharge, red and white lead, etc. .. .. .	(a)	(a)	(a)	85	275	451
<b>Australia—</b>						
Sheets and pipes, etc. .. .. .	—	5	19	19	43	—
Litharge, red and white lead, etc. (c) .. .. .	49	216	95	(d) 471	(d) 107	(d) 43
<b>Fiji—</b>						
Pig-lead and sheet .. .. .	10	17	20	87	26	12
<b>New Zealand—</b>						
Pig-lead and bars .. .. .	3,790	1,886	3,790	3,295	2,423	4,399
Sheets and pipes .. .. .	104	74	123	34	33	1
Litharge, red and white lead etc. .. .. .	206	3,319	3,782	3,493	2,307	1,702
<b>Irish Republic—</b>						
Pig-lead etc. .. .. .	524	844	1,445	1,174	168	985
Sheets and pipes .. .. .	1,423	587	687	1,103	330	101
Red and white lead .. .. .	530	433	427	521	116	(a)
<b>FOREIGN COUNTRIES</b>						
<b>Austria—</b>						
Ore .. .. .	3,366	2,835	2,953	2,933	4,473	4,449
Pig-lead, alloys, etc. .. .. .	(a)	3,998	1,620	6,645	2,647	5,311
Scrap .. .. .	(a)	257	218	31	15	46
<b>Belgium-Luxemburg E.U.—</b>						
Ore .. .. .	87,547	97,499	81,754	96,761	125,128	104,412
Pig-lead .. .. .	19,450	20,489	32,130	27,061	19,180	22,025
Antimonial lead .. .. .	(a)	1,341	845	198	302	150
Scrap .. .. .	3,402	10,930	3,158	7,423	1,641	536
Sheets, bars, pipes and wire .. .. .	2	—	30	—	69	8
Red and white lead, etc. .. .. .	238	442	898	765	526	891

(a) Information not available.

(b) Years ended March 31 following that stated.

(c) Years ended June 30 of that stated.

(d) Calendar year.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Czechoslovakia—</b>						
Ore .. .. .	(b) 3,471	(a)	(a)	(a)	(a)	(a)
Pig-lead, ashes, scrap and alloys .. .. .	(b) 12,625	(a)	(a)	(a)	(a)	(a)
Sheets, plates, pipes, wire, etc. .. .. .	(b) 13	(a)	(a)	(a)	(a)	(a)
Red and white lead, etc.	(b) 435	(a)	(a)	(a)	(a)	(a)
<b>Denmark—</b>						
Pig-lead .. .. .	5,959	9,342	15,976	15,396	11,403	12,244
Scrap .. .. .	3,387	1,361	1,736	3,853	3,276	4,962
Sheets, pipes and wire	31	61	28	54	152	106
Red and white lead ..	693	505	1,009	865	455	654
<b>Finland (total imports)—</b>						
Pig-lead .. .. .	2,539	4,960	5,667	6,149	7,130	6,467
Scrap .. .. .	1	—	—	219	—	—
Sheets, pipes, wire, etc.	464	432	631	1,110	616	292
Red and white lead, etc.	618	896	1,648	2,562	909	494
<b>France—</b>						
Ore .. .. .	51,908	27,436	43,414	49,593	58,209	68,138
Pig-lead, including argentiferous and antimonial .. .. .	35,906	22,685	29,106	37,640	50,933	40,108
Scrap .. .. .	3,520	1,706	1,448	3,484	2,349	2,425
Sheets, etc. .. .. .	366	16	8	145	86	3
Red and white lead, etc.	1,865	476	754	3,866	2,305	1,770
<b>Germany—</b>						
Ore .. .. .	—	2,322	29,173	39,310	55,830	56,062
Pig-lead, scrap and alloys .. .. .	881	1,327	3,791	7,077	6,687	20,346
Sheets, pipes, wire, etc.	297	32	2	—	1	—
Red and white lead, etc.	22	148	142	11	19	108
<b>Iceland—</b>						
Pig-lead .. .. .	(a)	18	9	10	(a)	(a)
Red and white lead ..	(a)	5	14	43	(a)	(a)
<b>Italy—</b>						
Ore .. .. .	53	574	1	2,321	—	194
Pig-lead, scrap and alloys .. .. .	10,740	10,003	8,768	8,816	10,055	13,622
<b>Netherlands—</b>						
Ore .. .. .	2,071	5,273	9,356	4,280	2,374	1,594
Pig-lead .. .. .	20,130	36,904	29,221	25,342	21,252	34,689
Scrap .. .. .	70	32	86	327	531	955
Sheets and wire	—	7	1,819	2,139	807	583
Red and white lead ..	4,095	5,714	6,591	4,490	2,450	2,658
<b>Norway—</b>						
Pig-lead .. .. .	4,855	5,929	7,488	7,397	7,403	7,589
Bars and sheets .. ..	672	1,007	892	608	909	931
Tubes, wire, etc. .. .	330	462	331	386	295	273
Red and white lead ..	507	760	749	587	313	511
<b>Portugal—</b>						
Pig-lead, alloys, etc. ..	2,865	2,031	1,434	1,536	947	1,752
Red and white lead, etc.	462	(a)	162	201	187	171
<b>Spain—</b>						
Ore .. .. .	8	—	549	10	(a)	(a)
Pig-lead and scrap ..	125	130	197	1,258	790	285
<b>Sweden—</b>						
Pig-lead .. .. .	13,458	10,933	11,996	16,804	11,517	13,327
Scrap .. .. .	247	389	420	79	231	531
Sheets and pipes .. .	1,100	1,075	1,737	3,530	2,008	1,490
Red and white lead ..	2,478	1,782	4,235	2,906	1,410	1,825

(a) Information not available.

(b) January to October only.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
Switzerland—						
Ores, etc. . . . .	—	—	1	—	2	3
Pig-lead, scrap, etc. . .	14,976	16,082	19,299	14,376	9,669	11,167
Sheets, pipes, wire, etc.	369	302	668	604	378	618
Red and white lead . . .	733	594	829	1,001	350	356
Algeria—						
Ore, matte and slags . .	27	29	24	24	37	6,651
Pig-lead . . . . .	4,430	2,691	2,705	2,837	3,188	3,132
Scrap . . . . .	39	35	50	23	—	122
Red and white lead, etc.	165	198	200	213	179	201
Egypt—						
Pig-lead and scrap . . .	81	345	20	100	139	208
Sheets, pipes, wire, etc.	471	739	283	109	341	212
Red and white lead . . .	482	398	547	274	203	494
Madagascar—						
Pig-lead, bars and sheets	104	(a)	(a)	(a)	(a)	(a)
Red and white lead . . .	42	(a)	(a)	(a)	(a)	(a)
Morocco (French)—						
Pig-lead, sheets and wire	212	125	91	(a)	1	(a)
Mozambique—						
Bars, sheets and wire . .	21	40	38	90	36	(a)
Tunis—						
Ore, matte and slag . . .	4,938	5,566	6,149	2,368	8,620	3,244
Pig-lead, bars and scrap	—	(a)	(a)	(a)	(a)	(a)
Sheets, etc. . . . .	284	(a)	(a)	(a)	(a)	(a)
Red and white lead, etc.	1	(a)	(a)	(a)	(a)	(a)
Cuba (total imports)—						
Pig-lead . . . . .	310	231	230	192	(a)	(a)
Sheets, pipes and wire . .	378	265	285	341	(a)	(a)
Mexico—						
Pig-lead . . . . .	25	10	14	15	12	9
Sheets and pipes . . . .	210	105	65	122	158	55
Red and white lead . . .	(a)	(a)	(a)	(a)	(a)	(a)
United States—						
Ore, matte and flue dust (Pb content) . . . . .	30,273	109,179	86,206	29,155	98,529	61,400
Bullion and base bullion (Pb content) . . . . .	9,785	1,014	1,196	41	2,635	662
Pig-lead and bars (Pb content) . . . . .	218,648	243,248	387,826	159,729	455,998	338,429
Scrap (Pb content) . . . .	25,716	12,505	20,264	7,060	10,204	3,489
Sheets, pipes, wire, etc.	161	158	185	228	10	159
Red and white lead, etc.	1,382	271	992	4,194	952	55
Argentina—						
Ore . . . . .	(a)	(a)	(a)	(a)	48	458
Pig-lead . . . . .	(a)	(a)	(a)	(a)	2,391	1,998
Brazil (total imports)—						
Pig-lead . . . . .	4,676	15,001	19,426	22,204	9,858	(a)
Sheets and pipes . . . .	204	376	(a)	464	134	(a)
Red and white lead . . .	618	990	(a)	339	491	(a)
Chile—						
Pig-lead . . . . .	1,163	998	1,499	886	422	1,183
Colombia—						
Ingots, bars, tubes and alloys . . . . .	(a)	448	773	(a)	(a)	(a)
Red and white lead . . .	(a)	116	69	(a)	(a)	(a)

(a) Information not available.



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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
Peru—						
Pig-lead, sheets, etc. ..	(a)	22	6	45	46	(a)
Red and white lead ..	61	142	204	126	101	(a)
Uruguay—						
Pig-lead .. .. .	1,721	615	2,860	1,367	(a)	(a)
Red and white lead, etc.	405	272	303	199	(a)	(a)
Venezuela—						
Pig-lead .. .. .	546	355	(a)	(a)	(a)	(a)
Red and white lead ..	95	80	(a)	(a)	(a)	(a)
China—						
Pig-lead .. .. .	686	(a)	(a)	(a)	(a)	(a)
Scrap .. .. .	(a)	(a)	(a)	(a)	(a)	(a)
Red and white lead, etc.	195	(a)	(a)	(a)	(a)	(a)
Iran (total imports) (b)—						
Ingots, sheets and wire	4	12	82	14	(a)	(a)
Israel—						
Pig-lead .. .. .	(a)	105	201	(a)	(a)	(a)
Sheets and pipes ..	(a)	91	45	(a)	(a)	(a)
Red lead .. .. .	(a)	166	90	(a)	(a)	(a)
Japan—						
Ore .. .. .	(a)	(a)	35	510	19	1,912
Pig-lead .. .. .	2,480	12,932	(a)	7,100	1,192	2,289
Scrap .. .. .	(a)	(a)	11	1,703	469	4,880
Red and white lead ..	(a)	(a)	(a)	303	(a)	4
Syria—						
Pig-lead .. .. .	315	256	37	23	(a)	(a)
Red and white lead ..	32	69	26	53	(a)	(a)
Turkey—						
Pig-lead and bars ..	623	684	2,038	320	1,696	(a)
Tubes and wire ..	23	95	200	119	638	(a)
Red and white lead ..	329	191	682	351	607	(a)

(a) Information not available.

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

**LITHIUM MINERALS**  
**PRODUCTION OF LITHIUM MINERALS**  
(Long tons)

Producing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Southern Rhodesia—						
Amblygonite .. ..	—	—	179	170	80	300
Lepidolite .. ..	—	—	—	1,567	1,101	6,859
Petalite .. ..	—	—	—	—	100	10,339
Spodumene .. ..	—	—	—	—	40	40
South West Africa—						
Amblygonite .. ..	157	116	261	516	637	302
Lepidolite .. ..	1,215	799	8,320	9,902	7,066	7,538
Petalite .. ..	160	120	161	155	1,048	1,427
Uganda—						
Amblygonite .. ..	—	200	265	19	—	16
Union of South Africa—						
Amblygonite .. ..	—	—	13	—	—	54
Australia—						
Petalite .. ..	—	5	—	—	—	—
<b>FOREIGN COUNTRIES</b>						
Portugal—						
Amblygonite .. ..	—	18	10	17	10	16
Lithium phyllite ..	—	—	6	49	—	—
Spain—						
Amblygonite .. ..	—	—	—	—	10	(a)
Mozambique—						
Lepidolite .. ..	—	590	218	275	1,083	5,622
United States (b)—						
Lithium minerals and compounds .. ..	3,465	4,320	8,309	11,515	13,938	(a)

Lithium minerals are also produced in Argentina.

(a) Information not available.

(b) Shipments.

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

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Southern Rhodesia—						
Lithium minerals ..	—	—	187	3,312	1,866	17,079
South West Africa—						
Amblygonite .. ..	—	245	85	94	459	400
Lepidolite .. ..	1,454	1,084	6,947	8,258	7,225	8,982
Petalite .. ..	163	4	230	284	1,255	1,322
Uganda—						
Amblygonite .. ..	—	200	265	19	—	16
<b>FOREIGN COUNTRIES</b>						
Portugal—						
Lithium minerals ..	(a)	(a)	(a)	(a)	27	29
Belgian Congo—						
Spodumene .. ..	—	—	—	5	—	—
Mozambique—						
Lepidolite .. ..	(a)	(a)	(a)	(a)	(a)	4,950

(a) Information not available.

Imports of Lithium minerals are not recorded separately in the trade returns of any country.

**MAGNESITE**  
**PRODUCTION OF MAGNESITE**

(Long tons)

Producing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Caustic (d) .. .. .	—	—	—	2,500	7,478	7,800
Dead-burnt (d) .. .. .	30,800	42,500	39,600	48,300	58,023	71,700
Kenya—						
Crude .. .. .	—	10	178	—	—	—
Southern Rhodesia—						
Crude .. .. .	5,632	7,519	8,479	14,580	10,779	9,664
Tanganyika—						
Crude .. .. .	—	—	82	2,673	—	—
Union of South Africa—						
Crude .. .. .	10,492	10,321	11,596	18,477	24,023	22,526
Canada—						
Calcined magnesitic dolomite (b) .. .. .	£393,972	£408,843	£565,092	£826,364	£994,603	£1,127,120
Cyprus (exports)—						
Crude .. .. .	1	20	20	20	20	20
India—						
Crude .. .. .	48,327	90,564	52,859	117,466	89,041	92,748
Australia—						
Crude .. .. .	32,442	33,590	35,392	38,134	42,137	46,397
New Zealand—						
Crude .. .. .	540	559	341	580	579	517
<b>FOREIGN COUNTRIES</b>						
Austria—						
Crude .. .. .	405,126	519,444	542,065	654,339	729,876	799,975
Caustic (c) .. .. .	52,536	76,784	73,385	76,468	69,481	72,068
Dead-burnt (c) .. .. .	131,337	176,576	179,588	211,813	244,595	231,651
Bricks (c) .. .. .	110,644	107,315	110,054	132,697	160,776	188,483
Germany (Federal) .. .. .	(a)	(a)	1,290	(a)	(a)	(a)
Greece—						
Crude .. .. .	11,021	16,820	25,841	59,917	78,137	105,249
Calcined (c) .. .. .	2,837	1,996	9,435	25,656	26,339	25,108
Italy—						
Crude .. .. .	986	723	270	1,015	1,009	(a)
Norway—						
Crude .. .. .	1,712	1,090	1,821	1,430	1,003	1,830
Calcined (c) .. .. .	979	528	844	480	575	405
Bricks (c) .. .. .	170	219	64	200	146	68
Spain .. .. .	9,741	6,585	7,511	13,516	12,426	22,889
Yugoslavia—						
Crude .. .. .	51,000	86,000	58,333	88,495	37,185	120,582
Mexico (exports)—						
Crude and calcined .. .. .	—	—	—	—	55	56
United States—						
Crude .. .. .	(a)	256,531	383,386	598,363	456,027	493,881
Caustic (sales) (c) .. .. .	29,651	29,022	37,006	44,626	33,978	38,411
Dead-burnt (sales) (c) .. .. .	294,704	223,562	299,500	385,890	345,422	356,368
Venezuela—						
Crude .. .. .	1,870	—	1,379	—	—	(a)
Turkey .. .. .	3,353	6,269	443	497	878	(a)

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

(a) Information not available.

(b) Including brucite.

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

(d) Magnesia extracted from sea-water.

EXPORTS OF MAGNESITE, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Magnesium and alloys	277	1,126	387	420	703	276
Magnesium compounds	9,947	8,572	10,469	13,415	12,111	14,875
Southern Rhodesia—						
Crude and calcined ..	5,552	3,742	2,964	11,668	13,089	8,241
Tanganyika—						
Magnesite .. .. .	—	—	82	2,651	—	57
Union of South Africa—						
Crude and calcined ..	—	—	255	304	—	—
Canada—						
Basic refractory materials .. ..	3,890	1,819	2,323	4,377	2,643	4,108
Cyprus—						
Crude .. .. .	1	20	20	20	20	20
India—						
Magnesite .. .. .	14,171	37,099	17,047	49,085	41,279	42,533
Chloride .. .. .	2,167	2,905	1,653	1,986	1,650	1,557
Australia—						
Crude and calcined ..	354	—	36	64	91	98
Sulphate .. .. .	(b) 387	317	155	113	190	(b) 74
<b>FOREIGN COUNTRIES</b>						
Austria—						
Crude .. .. .	—	78	214	420	984	118
Caustic .. .. .	15,037	32,944	48,490	61,452	59,399	70,872
Dead-burnt .. .. .	53,379	78,693	69,242	82,417	80,316	71,334
Bricks .. .. .	67,490	88,157	93,906	103,156	134,992	155,788
Belgium-Luxemburg						
E.U.—						
Crude .. .. .	1,040	162	379	431	39	21
Calcined .. .. .	2	24	263	20	20	11
Carbonate .. .. .	14	7	2	1	—	—
Chloride .. .. .	11	137	18	57	36	61
Sulphate .. .. .	144	117	203	214	38	11
Czechoslovakia—						
Crude .. .. .	(c) —	(a)	(a)	(a)	(a)	(a)
Calcined .. .. .	(c) 32,038	(a)	(a)	(a)	(a)	(a)
Bricks .. .. .	(c) 12,784	(a)	(a)	(a)	(a)	(a)
Chloride, oxide and sulphate .. .. .	(c) —	(a)	(a)	(a)	(a)	(a)
France—						
Crude and calcined ..	79	117	48	189	210	78
Magnesium (d) .. ..	—	74	720	606	167	219
Magnesium compounds	10,765	4,370	8,765	9,391	4,682	4,586
Germany—						
Crude and calcined ..	15	20	108	260	357	860
Carbonate, oxide, etc.	—	36	428	356	112	(a)
Chloride .. .. .	774	8,436	12,050	16,047	10,801	11,897
Sulphate .. .. .	4,321	18,570	17,177	22,297	19,122	27,973
Greece—						
Crude .. .. .	2,473	787	1,977	18,368	16,616	10,563
Caustic .. .. .	298	78	4,443	22,378	22,593	6,668
Italy—						
Magnesium metal .. ..	111	171	(a)	3,888	1,904	898
Crude .. .. .	282	14	3	39	1	358
Caustic .. .. .	67	129	118	87	63	21
Carbonate .. .. .	166	65	66	109	70	124

(a) Information not available.

(b) Years ended June 30 of that stated.

(c) January to October only.

(d) Including alloys and scrap.

## EXPORTS OF MAGNESITE, ETC. (cont.)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
Netherlands—						
Calcined .. ..	9,456	7,475	18,898	17,077	15,917	14,651
Sulphate .. ..	(a)	(a)	921	551	828	731
Norway—						
Crude .. ..	—	38	—	30	20	—
Bricks .. ..	165	149	83	170	119	53
Sweden—						
Crude and calcined ..	46	28	10	—	—	—
Yugoslavia—						
Crude .. ..	(a)	(a)	661	16,283	814	3,966
Ground and dead-burnt	(a)	(a)	15,820	18,781	13,560	28,352
Mexico—						
Crude and calcined ..	—	—	—	—	55	56
United States—						
Magnesium metal (b) ..	245	386	523	513	952	2,431
Bricks, etc. .. ..	8,943	(a)	(a)	(a)	(a)	(a)
Brazil .. ..	(a)	(a)	955	3,100	4,570	(a)
Peru—						
Sulphate .. ..	373	482	595	335	231	(a)
Turkey—						
Crude .. ..	1,966	3,149	591	11	12	15
Calcined .. ..	—	321	—	—	—	(a)

(a) Information not available.

(b) Including alloys and scrap.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Crude and calcined ..	34,599	28,563	21,648	22,967	21,601	22,705
Magnesium and alloys	—	87	(a)	(a)	(a)	(a)
Chloride .. .. .	7,068	8,738	5,868	8,401	6,070	7,498
Other salts .. .. .	461	(d) 1	369	2,045	2,691	(a)
Union of South Africa—						
Carbonate and sulphate	4,998	3,273	3,323	10,555	13,737	(a)
Chloride .. .. .	294	186	227	266	277	(a)
Canada—						
Calcined and dead-						
burnt .. .. .	6,887	4,182	5,337	5,821	9,177	6,072
Carbonate .. .. .	620	882	1,498	1,051	262	284
Sulphate .. .. .	2,497	2,485	2,494	2,737	1,952	2,466
Bricks .. .. .	(£107,052)	(£129,434)	(£136,294)	(£167,124)	(£240,674)	(£344,715)
Other salts .. .. .	440	383	549	853	1,200	2,995
Hong Kong—						
Magnesite .. .. .	(a)	(a)	(a)	(a)	15	5
India—						
Chloride .. .. .	1	1	—	—	—	1
Sulphate .. .. .	1	2	—	1	—	1
Other salts .. .. .	503	621	252	776	601	626
Pakistan (e)—						
Chloride .. .. .				60	43	158
Sulphate .. .. .	(a)	(a)	(a)	911	399	439
Other salts .. .. .				67	21	46
Australia—						
Crude and calcined ..	(b) 93	77	844	530	772	401
Oxide .. .. .	66	71	86	81	53	(b) 48
Carbonate .. .. .	307	169	228	237	202	(b) 14
Chloride .. .. .	207	149	94	444	168	(b) 258
Sulphate .. .. .	108	103	445	330	484	(b) 109
New Zealand—						
Magnesite .. .. .	(a)	33	44	44	48	61
Sulphate .. .. .	384	290	274	423	350	334
Other salts .. .. .	(a)	59	133	324	112	136
Irish Republic—						
Magnesium salts ..	348	353	507	523	456	695
<b>FOREIGN COUNTRIES</b>						
Austria—						
Sulphate .. .. .	7,457	5,197	6,077	7,941	5,023	5,505
Chloride .. .. .	1,307	2,007	2,492	3,030	1,380	2,155
Belgium-Luxemburg						
E.U.—						
Crude .. .. .	1,893	1,845	3,085	297	342	165
Calcined .. .. .	1,410	579	479	2,667	4,058	2,428
Bricks .. .. .	(a)	—	8,818	10,433	12,621	14,455
Magnesium .. .. .	43	190	163	181	110	105
Carbonate .. .. .	276	144	412	368	354	423
Chloride .. .. .	478	466	652	576	575	613
Sulphate .. .. .	1,457	1,748	1,697	2,372	1,772	2,643
Czechoslovakia—						
Calcined .. .. .	(c) 757	(a)	(a)	(a)	(a)	(a)
Bricks .. .. .	(c) 2,437	(a)	(a)	(a)	(a)	(a)
Chloride .. .. .	(c) 1,461	(a)	(a)	(a)	(a)	(a)
Oxide, impure .. .. .	(c) 471	(a)	(a)	(a)	(a)	(a)
Sulphate .. .. .	(c) —	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

(b) Year ended June 30 of that stated.

(c) January to October only.

(d) Excess of re-exports.

(e) Years ended March 31 following that stated.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
Denmark—						
Crude .. .. .	2,662	1,311	1,592	1,818	1,546	970
Chloride .. .. .	1,857	382	994	1,339	993	743
Oxide .. .. .	444	334	358	515	81	168
Sulphate .. .. .	447	427	521	416	498	954
Finland (total imports)—						
Crude and calcined .. .. .	1,357	955	1,475	1,189	928	1,126
Oxide .. .. .	12	13	15	68	18	20
Carbonate .. .. .	162	298	72	292	67	102
Chloride .. .. .	678	767	1,300	1,207	648	1,063
Sulphate .. .. .	77	26	144	246	39	227
France—						
Crude .. .. .	1,403	1,222	1,646	3,001	3,990	3,651
Calcined .. .. .	17,306	16,923	11,843	16,187	17,525	19,560
Magnesium (b) .. .. .	15	—	—	75	138	26
Carbonate .. .. .	303	194	329	494	252	115
Chloride .. .. .	1	—	22	232	94	141
Sulphate .. .. .	—	—	520	1,115	1,165	1,464
Germany (Federal)—						
Crude and calcined .. .. .	28,464	48,644	86,820	109,316	130,994	166,421
Magnesium, crude and scrap .. .. .	(a)	(a)	(a)	461	2,385	5,141
Italy—						
Magnesium metal .. .. .	23	25	(a)	28	76	112
Crude .. .. .	1,971	822	1,306	5,385	3,596	3,994
Caustic .. .. .	5,185	7,748	10,689	10,541	13,606	13,679
Chloride .. .. .	—	2,181	980	867	1,376	1,735
Sulphate .. .. .	500	904	2,367	2,536	3,190	3,932
Netherlands—						
Crude .. .. .	558	418	819	983	219	901
Calcined .. .. .	10,140	12,981	21,406	18,600	19,044	15,766
Magnesium metal .. .. .	6	26	84	53	98	132
Sulphate .. .. .	1,775	5,094	7,860	5,899	3,518	5,766
Chloride .. .. .	4,254	3,650	3,778	3,653	2,692	2,880
Norway—						
Calcined .. .. .	2,058	1,110	783	1,013	649	618
Chloride .. .. .	919	869	3,390	3,501	1,326	463
Portugal—						
Crude and calcined .. .. .	87	170	55	129	184	146
Carbonate .. .. .	163	74	63	102	39	71
Chloride .. .. .	50	49	44	72	69	50
Oxide .. .. .	5	13	8	309	334	421
Sulphate .. .. .	804	698	729	1,098	769	990
Sweden—						
Magnesium metal .. .. .	27	17	159	332	323	222
Crude and calcined .. .. .	2,720	2,616	2,212	2,080	2,172	1,234
Bricks .. .. .	10,402	11,192	11,364	11,260	12,140	14,507
Chloride .. .. .	1,729	1,673	1,579	1,550	982	1,130
Yugoslavia—						
Calcined and ground .. .. .	(a)	(a)	7,273	7,149	6,276	605
Bricks .. .. .	(a)	(a)	4,460	1,681	4,793	6,399
Algeria—						
Calcined .. .. .	8	13	9	8	24	8
Belgian Congo—						
Calcined .. .. .	(a)	(a)	470	417	892	1,921
Sulphate .. .. .	(a)	(a)	732	547	449	522
Chloride .. .. .	(a)	(a)	106	2	1	1
Egypt—						
Sulphate .. .. .	393	447	618	1,049	120	343
Cuba (total imports)—						
Calcined .. .. .	7	78	77	147	(a)	(a)
Carbonate .. .. .	103	36	144	107	(a)	(a)

(a) Information not available.

(b) Including alloys and scrap.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Mexico—</b>						
Crude .. .. .	2,285	3,778	4,063	3,402	6,032	5,312
Calcined .. .. .	(a)	(a)	(a)	31	62	22
Magnesium metal .. .. .	226	314	376	326	373	346
Sulphate .. .. .	(a)	(a)	(a)	50	43	27
<b>United States—</b>						
Crude .. .. .	86	—	8	—	13	—
Calcined .. .. .	823	1,324	1,898	3,743	1,803	2,422
Dead-burnt .. .. .	2,716	2,206	12,607	25,701	21,847	35,087
Bricks .. .. .	827	1,612	2,745	4,033	5,236	5,622
Magnesium metal, etc.	605	2,286	753	3,456	225	2,181
Oxide .. .. .	—	—	—	—	6	—
Carbonate, precipitated	252	171	209	173	163	226
Chloride .. .. .	5	5	7	2	1	284
Sulphate (incl. Kieserite)	—	409	3,187	2,631	5,450	8,249
<b>Argentina—</b>						
Carbonate .. .. .	(a)	(a)	(a)	(a)	479	135
Chloride .. .. .					60	129
Oxide .. .. .					10	1
<b>Brazil (total imports)—</b>						
Oxide .. .. .	209	134	(a)	27	32	(a)
Sulphate .. .. .	147	44	(a)	170	1,032	(a)
<b>Peru—</b>						
Crude and calcined .. .. .	(a)	606	1,189	1,202	602	(a)
Carbonate .. .. .		22	2	2	7	(a)
Oxide .. .. .		3	1	2	3	(a)
Hydroxide .. .. .		41	29	29	18	(a)
Sulphate .. .. .		4	19	51	28	(a)
Chloride .. .. .		1	2	—	2	(a)
<b>Venezuela—</b>						
Sulphate .. .. .	112	136	(a)	(a)	(a)	(a)
<b>Japan—</b>						
Crude and calcined .. .. .	21,726	76,355	19,040	99,479	41,367	77,960
Magnesium metal .. .. .	(a)	(a)	1	1	(a)	426
<b>Syria and Lebanon—</b>						
Ground and calcined .. .. .	26	10	10	20	(a)	(a)
<b>Turkey—</b>						
Calcined .. .. .	5	12	29	—	—	(a)
Carbonate, chloride, etc.	170	123	209	131	196	(a)
Oxide .. .. .	6	4	21	11	16	(a)
Sulphate .. .. .	30	43	197	155	219	(a)

(a) Information not available.



**MANGANESE**  
PRODUCTION OF MANGANESE ORE  
(Long tons)

Producing Country	Estimated Manganese Content						
	1948	1949	1950	1951	1952	1953	1953
<b>BRITISH COUNTRIES</b>							
Gold Coast (exports) (e) ..	629,973	741,069	711,366	806,080	794,192	745,990	309,000
Northern Rhodesia ..	3,898	3,975	1,723	1,260	3,926	7,129	510
Southern Rhodesia ..	10	164	—	6,456	1,411	—	(a)
South West Africa ..	—	—	978	26,088	26,088	36,299	3,100
Union of South Africa ..	272,029	644,831	778,449	746,888	860,828	814,588	304,000
Canada (sales) ..	3	—	—	—	—	—	—
India ..	525,876	645,825	882,929	1,292,375	1,462,264	1,897,698	258,000
Australia ..	3,447	13,087	14,869	7,969	7,069	32,943	(a)
New Zealand ..	206	305	352	402	319	289	100
Papua ..	(c)	68	22	40	(a)	42	(a)
Fiji (exports) ..	70	100	240	631	2,010	2,186	(a)
TOTAL ..	1,436,000	2,038,000	2,391,000	2,862,000	3,158,000	3,537,000	
<b>FOREIGN COUNTRIES</b>							
France ..	670	2,194	—	15,930	19,336	13,219	79
Greece ..	886	148	315	(a)	(a)	(a)	(a)
Hungary (d) ..	40,000	(a)	19,127	28,106	39,929	39,002	7,000
Italy ..	24,299	23,836	19,127	8,270	10,904	12,426	90
Portugal ..	237	516	758	—	(a)	(a)	164
Roumania (d) ..	46,000	64,000	24,000	20,461	28,043	28,510	(a)
Spain ..	18,232	18,356	18,702	17,267	18,579	11,877	8,000
Sweden ..	8,936	15,856	11,660	3,000,000	3,000,000	3,000,000	8,200
U.S.S.R. (estimated) ..	2,800,000	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	2,401
Yugoslavia ..	12,593	13,618	13,127	12,665	12,487	9,859	7,700
Angola ..	394	18,300	9,161	45,462	54,224	64,824	8,000
Belgian Congo ..	12,563	16,722	16,722	69,825	125,957	213,242	26,000
Egypt (b) ..	58,973	136,380	149,766	152,910	205,861	279,597	34,900
							51,000
							45,000
							62,000
							26,000
							63,000
							106,600
							93,000
							5,300
							(a)
							7,700
							(a)
							8,000
							11,600
							2,900
							(a)
							2,200
							(a)
							8,200
							11,200
							12,100
							2,867
							(a)
							2,806
							(a)
							(a)
							4,580
							8,400
							6,027
							41,000

(a) Information not available. (b) Ore containing 30% Mn and 10% Fe. (c) Years ended June 30 of year following that stated. (d) U.S. Bureau of Mines. (e) The estimated manganese content has been revised for all years.

PRODUCTION OF MANGANESE ORE (cont.)

Producing Country	Estimated Manganese Content						
	1948	1949	1950	1951	1952	1953	1953
<b>FOREIGN COUNTRIES</b>							
Morocco (French)	211,026	230,132	282,828	366,354	419,583	422,664	192,700
Morocco (Spanish)	500	643	50	1,104	3,577	1,054	470
Cuba (b)	28,613	61,516	77,205	142,799	247,702	347,638	(a)
Mexico	50,300	53,465	34,725	77,939	140,538	240,949	205,680
United States (c)	117,054	112,621	120,046	93,756	103,017	140,657	1,600
Brazil	161,412	227,000	192,417	200,327	245,297	e 250,000	(a)
Chile	20,174	28,414	34,960	38,483	52,997	(a)	23,988
Peru	(a)	(a)	750	931	(a)	(a)	689
Burma	(a)	(a)	(a)	(a)	6,500	8,580	(a)
Indonesia	(a)	(a)	(a)	(a)	7,709	18,111	(a)
Japan	55,468	104,354	136,876	182,091	204,101	191,327	(a)
Korea (South)	(a)	100	100	2,211	7,299	3,010	(a)
Philippine Republic	25,161	25,873	29,395	21,990	20,301	20,184	(a)
Portuguese India	6,400	15,964	d 21,644	84,073	109,312	148,417	(a)
Turkey	8,195	24,607	31,670	49,719	105,158	72,782	(a)
New Caledonia	(a)	2,070	5,307	19,817	16,377	5,503	(a)
TOTAL	3,700,000	4,200,000	4,300,000	4,740,000	5,300,000	5,600,000	
World's TOTAL	5,140,000	6,240,000	6,700,000	7,600,000	8,460,000	9,140,000	

Manganese ore is also produced in China and Iran; low-grade ore in Czechoslovakia.

(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): 1947—114,788; 1948—126,823; 1949—23,361; 1950—102,919; 1951—94,824; 1952—94,917; 1953—243,516.

(d) Exports.

(e) Estimated.

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

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Metal .. .. .	593	298	386	65	201	283
Ferro-manganese and spiegeleisen .. .. .	3,236	9,267	2,530	1,437	1,785	950
Gold Coast—						
Ore .. .. .	629,973	741,069	711,366	806,080	794,192	745,990
South West Africa—						
Ore .. .. .	—	—	—	3,604	24,169	36,298
Union of South Africa—						
Ore .. .. .	319,442	677,813	685,137	574,362	574,321	621,987
Canada—						
Spiegeleisen .. .. .	645	500	316	—	—	508
Ferro-manganese .. .. .	66,517	31,507	23,724	60,275	27,937	610
Hong Kong (re-exports)—						
Ore .. .. .	28	12,585	1,015	—	239	—
Manganese dioxide .. .. .	(a)	(a)	(a)	(a)	(a)	101
India—						
Ore (b) .. .. .	363,482	613,907	919,895	1,106,953	1,462,224	e 1,761,420
Feruginous manganese ore .. .. .	(a)	(a)	(a)	4,222	20,200	65,099
Australia—						
Ore .. .. .	5	—	6	—	110	14,152
Fiji—						
Ore .. .. .	70	100	240	631	2,010	2,186
New Zealand—						
Ore .. .. .	488	110	—	—	—	—
Papua (c)—						
Ore .. .. .	(a)	160	59	21	68	(a)
<b>FOREIGN COUNTRIES</b>						
France—						
Ore .. .. .	861	1,960	2,918	2,335	1,517	1,972
Manganese dioxide .. .. .	19	23	111	45	436	328
Ferro-manganese .. .. .	102	172	34,388	28,846	18,287	42,460
Germany (Federal)—						
Ore .. .. .	—	138	103	160	80	554
Ferro-manganese .. .. .	—	36	510	(d) 212	(a)	(a)
Greece—						
Ore .. .. .	—	—	329	14,154	18,538	16,732
Italy—						
Ore, including manganese-ferrous iron ore .. .. .	1	72	5	49	78	—
Ferro-manganese .. .. .	—	597	285	466	694	1,147
Netherlands—						
Ore, including manganese-ferrous iron ore .. .. .	2,134	2,022	2,394	2,319	4,888	4,401
Norway—						
Ferro-manganese .. .. .	58,133	52,879	82,178	79,161	83,488	64,361
Ferro-silico-manganese .. .. .	9,411	8,022	19,182	22,482	17,797	11,580
Portugal—						
Ore .. .. .	146	2,460	2,370	10,370	4,073	13,947
Spain—						
Ore .. .. .	104	103	—	6	5,708	—

(a) Information not available.

(b) Including manganese ore mined in India but exported via the Portuguese port of Mormugao as follows:—1948, 33,355 tons; 1949, 70,864 tons; 1950, 79,941 tons; 1951, 90,465 tons; 1952, 53,062 tons; 1953, (a).

(c) Years ended June 30 of that stated.

(e) Sea-borne trade only.

(d) January to September only.

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

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
Sweden—						
Ore .. .. .	335	555	1,020	584	497	403
Ferro-manganese .. .. .	117	725	981	369	365	364
Spiegeleisen .. .. .	—	—	—	—	92	—
Ferro-silico-manganese .. .. .	20	203	878	220	82	3
U.S.S.R.—						
Ore .. .. .	(b)	(b)	(b)	(b)	(b)	(b)
Yugoslavia—						
Ferro-manganese .. .. .	(a)	(a)	1,321	846	2,322	1,335
Silico-manganese .. .. .	(a)	(a)	475	845	329	1,132
Angola—						
Ore .. .. .	2,657	8,670	12,797	44,000	50,014	61,613
Belgian Congo—						
Ore .. .. .	15,601	16,717	13,866	63,665	123,117	180,806
Egypt—						
Ore .. .. .	92,426	127,298	105,282	236,410	165,245	(a)
Morocco (French)—						
Ore .. .. .	205,010	221,250	263,048	352,729	360,279	402,324
Morocco (Spanish)—						
Ore .. .. .	13	643	36	10	3,332	(a)
Cuba—						
Ore .. .. .	29,479	57,323	85,008	149,294	231,222	366,500
Mexico—						
Ore .. .. .	56,461	51,851	35,433	86,749	149,716	282,977
<i>Mn content</i> .. .. .	23,635	23,396	14,247	28,059	44,322	74,523
United States—						
Ore .. .. .	8,245	4,495	8,002	7,170	8,704	6,155
Ferro-manganese and spiegeleisen .. .. .	17,630	5,917	841	641	1,327	993
Brazil—						
Ore .. .. .	139,022	147,529	145,996	118,006	158,852	163,477
Chile—						
Ore .. .. .	17,283	10,137	18,700	20,668	33,660	43,896
Peru—						
Ore .. .. .	—	—	750	1,367	3,784	(a)
China—						
Ore .. .. .	395	(a)	(a)	(a)	(a)	(a)
Indonesia—						
Ore .. .. .	1,486	984	3,248	(a)	17,074	30,608
Japan—						
Ore .. .. .	(a)	(a)	101	79	1,673	244
Ferro-manganese .. .. .	(a)	(a)	2,496	3,630	7,972	23,573
Philippine Republic—						
Ore .. .. .	41,409	21,966	29,799	22,729	20,301	21,168
Portuguese India—						
Ore .. .. .	4,689	11,005	21,644	63,399	137,463	203,889
Turkey—						
Ore .. .. .	—	7,517	18,254	45,473	79,208	65,722
New Caledonia—						
Ore .. .. .	—	2,302	1,813	20,917	17,037	7,530

(a) Information not available.

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

	1948	1949	1950	1951	1952	1953
Netherlands .. .. .	517	(a)	—	1,968	—	2,332
Norway .. .. .	4,904	15,181	30,158	19,749	17,285	(a)
Sweden .. .. .	5,890	11,902	4,923	20,076	21,348	5,062
United States (total imports) .. .. .	381,455	179,829	58,539	2,309	—	—

IMPORTS OF MANGANESE ORE, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Ore .. .. .	449,922	470,575	401,628	381,148	430,576	493,691
Metal .. .. .	—	6	40	86	59	8
Ferro-manganese and spiegeleisen .. .. .	—	—	485	1,167	718	762
Silico-manganese .. .. .	11,057	9,100	10,464	12,568	12,322	10,821
Union of South Africa—						
Ferro-manganese .. .. .	29	83	18	39	56	(a)
Manganese dioxide .. .. .	572	744	613	1,074	971	(a)
Canada—						
Ore .. .. .	205,623	123,084	121,158	198,287	173,576	59,538
Ferro-manganese .. .. .	484	1,327	908	261	1,454	932
Silico-manganese .. .. .	53	18	73	302	136	16
Hong Kong (total imports)—						
Ore .. .. .	107	7,574	342	267	24	—
Manganese dioxide .. .. .	(a)	(a)	(a)	(a)	(a)	1,967
Malaya (total imports)—						
Ore .. .. .	528	180	—	170	1	778
Australia—						
Ore .. .. .	8,138	21,808	15,061	2,830	65	1,231
Ferro-manganese .. .. .	64	709	389	80	56	111
<b>FOREIGN COUNTRIES</b>						
Austria—						
Ore .. .. .	8,346	13,571	7,307	24,501	19,725	4,301
Belgium-Luxemburg E.U.—						
Ore .. .. .	(a)	161,295	45,102	111,874	124,575	111,155
Ferro-manganese .. .. .	(a)	52,667	47,136	78,626	81,421	49,651
Czechoslovakia—						
Ore .. .. .	(b) 70,448	(a)	(a)	(a)	(a)	(a)
Denmark—						
Ore .. .. .	896	460	1,560	2,771	1,978	2,543
Finland (total imports)—						
Ferro-manganese and spiegeleisen .. .. .	1,618	1,030	696	1,637	1,186	1,165
Manganese dioxide .. .. .	419	181	85	350	168	228
France—						
Ore .. .. .	233,937	267,065	335,173	424,438	397,596	435,005
Ferro-manganese .. .. .	244	148	102	153	479	563
Manganese dioxide .. .. .	—	5	36	3	—	31
Germany (Federal)—						
Ore .. .. .	2,759	60,624	147,677	260,978	177,512	415,656
Ferro-manganese .. .. .	2,365	3,427	1,369	2,090	(a)	(a)
Italy—						
Ore, including mangani-ferous iron ore .. .. .	49,789	46,688	21,851	54,491	97,807	37,070
Spiegeleisen .. .. .	58	—	1,537	3,329	4,064	2,142
Ferro-manganese .. .. .	4,719	2,939	1,696	219	19	162
Ferro-silico-manganese .. .. .	101	660	—	—	19	—
Netherlands—						
Ore .. .. .	5,052	17,724	8,714	6,819	32,904	47,783
Norway—						
Ore .. .. .	132,038	164,083	160,001	198,741	249,313	215,705
Spain—						
Ore .. .. .	—	3,335	2,274	6,233	9,399	1,860
Ferro-manganese .. .. .	36	2	3,476	866	4,403	5,460

(a) Information not available.

(b) January to October only.

(c) January to September only.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
FOREIGN COUNTRIES (cont.)						
Sweden—						
Ore (chemical grade) ..	814	784	1,142	1,056	584	418
do. (metallurgical grade)	14,964	32,525	28,308	49,205	49,837	30,316
Ferro-manganese ..	2,073	1,866	2,258	2,327	1,445	1,850
Spiegeleisen .. ..	—	20	128	—	57	15
Ferro-silico-manganese	453	328	121	218	392	292
Yugoslavia—						
Ore .. .. .	(a)	(a)	4,471	8,978	6,683	3,967
Algeria—						
Ore .. .. .	21	8	30	11	26	61
Mexico—						
Ferro-manganese ..	1,337	2,395	2,372	940	894	123
United States—						
Ore (b) .. .. .	1,316,743	1,297,300	1,805,050	1,852,612	2,106,491	2,958,014
<i>Mn content</i> .. ..	627,479	601,470	828,384	828,102	930,646	1,286,139
Ferro-manganese ..	87,697	58,048	96,691	106,932	57,227	112,963
<i>Mn content</i> .. ..	70,024	46,577	76,700	84,773	45,562	87,640
Argentina—						
Dioxide and borate of manganese .. ..	(a)	(a)	(a)	(a)	12	890
Ferro-manganese ..	2,222	1,722	2,217	2,394	1,480	2,169
Chile—						
Ferro-manganese ..	132	(a)	(a)	(a)	(a)	(a)
Japan (total imports)—						
Ore .. .. .	36,946	64,143	48,368	253,777	69,065	108,957

(a) Information not available.

(b) Including the following quantities of ore containing 10 to 35% Mn (*Mn content* in brackets): 1948—409 (137); 1949—24,345 (7,790); 1950—81,781 (21,671); 1951—156,483 (41,650); 1952—137,812 (36,310); 1953—165,387 (37,481).

**MERCURY**  
**PRODUCTION OF MERCURY**  
(Lb.)

Producing Country	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
Austria (c) .. ..	(a) 419	419	2,866	2,315	1,698	1,742
Czechoslovakia .. ..	(b) 60,000	(b) 60,000	(a) —	(a) —	(a) —	(a) —
Italy .. ..	2,906,000	3,384,000	4,054,000	4,094,000	4,246,000	3,900,000
Spain .. ..	1,723,433	2,454,058	3,937,217	3,380,497	2,974,306	3,154,000
Yugoslavia .. ..	830,000	970,000	1,091,000	1,113,000	1,111,000	1,085,000
Algeria .. ..	28,990	7,776	—	—	—	—
Mexico .. ..	363,015	412,639	285,505	613,670	663,662	884,852
United States .. ..	1,093,488	754,680	344,660	554,268	953,572	1,086,800
Bolivia (exports) .. ..	99	—	—	1,407	—	(a) —
Chile .. ..	35,510	57,300	24,250	8,671	13,159	(a) —
China (d) .. ..	22,000	22,000	110,200	304,000	(a) —	(a) —
Japan .. ..	128,351	187,031	99,689	140,377	234,320	486,825
Turkey .. ..	2,052	—	—	—	—	—
<b>WORLD'S TOTAL (b)</b>	<b>7,700,000</b>	<b>8,800,000</b>	<b>10,600,000</b>	<b>10,900,000</b>	<b>11,100,000</b>	<b>11,600,000</b>

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.

(d) United States Bureau of Mines' estimate.

EXPORTS OF MERCURY, ETC.

(Domestic Produce)

(Lb.)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Mercury .. ..	14,133	18,571	107,095	168,583	19,651	20,620
Chloride .. ..	36,808	20,244	51,866	94,310	(a)	(a)
Canada—						
Mercury .. ..	175	8	8,100	58,235	1,500	7,018
Hong Kong (re-exports)—						
Mercury .. ..	7,144	56,392	10,032	16,796	—	988
Malaya (b)—						
Mercury .. ..	271	2,145	169	3,381	93	329
<b>FOREIGN COUNTRIES</b>						
Belgium-Luxemburg						
E.U.—						
Mercury .. ..	6,614	4,409	41,987	4,409	2,205	24,251
Sulphide of mercury .. ..	72,753	15,432	15,432	30,865	—	6,614
Other mercury salts .. ..	11,022	—	—	—	33,059	4,409
Czechoslovakia—						
Mercury .. .. (c)	45,636	(a)	(a)	(a)	(a)	(a)
France—						
Mercury .. ..	25,353	4,630	2,866	5,952	13,889	6,173
Mercury salts .. ..	7,716	72,973	43,872	29,762	5,732	11,684
Germany (Federal)—						
Cinnabar .. ..	}	5,291	661	(d) 2,425	(a)	(a)
Mercury .. ..		1,543	39,463	3,527	1,984	11,244
Mercury salts .. ..		14,110	71,641	(d) 37,104	(a)	(a)
Italy—						
Mercury .. ..	2,406,125	642,868	6,262,891	2,090,423	2,546,559	4,191,869
Mercury salts .. ..	(a)	(a)	112,656	134,702	28,880	97,665
Portugal—						
Mercury .. ..	(a)	(a)	—	15,260	31,559	7,399
Spain—						
Mercury .. ..	5,696,744	2,101,005	7,562,736	3,689,281	3,363,240	3,318,816
Mercury salts .. ..	20,128	5,787	35,821	32,159	13,746	(a)
Sweden—						
Mercury .. ..	476	549	17,637	37,479	450	—
Switzerland—						
Mercury .. ..	196	326	192	421	448	35,230
Yugoslavia—						
Mercury .. ..	(e)	(e)	1,054,250	990,537	1,061,162	974,037
Mercury salts .. ..	(a)	(a)	(a)	(a)	62,230	39,178
Algeria—						
Mercury .. ..	9,259	—	—	—	—	—
Mexico—						
Mercury .. ..	363,139	493,297	376,164	524,771	598,500	948,779
United States—						
Mercury .. ..	59,713	43,860	33,977	18,311	30,369	41,497

(a) Information not available.

(b) Including re-exports.

(c) January to October.

(d) January to September only.

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



EXPORTS OF MERCURY, ETC. (cont.)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b> (cont.)						
Bolivia—						
Mercury .. ..	99	—	—	1,407	—	(a)
Chile—						
Mercury .. ..	4,484	(a)	(a)	(a)	(a)	(a)
Japan—						
Mercury .. ..	782,641	(a)	1,949	(a)	(a)	1,459
Turkey—						
Mercury .. ..	—	—	—	—	5,578	(a)

(a) Information not available.

IMPORTS OF MERCURY, ETC.

(Less Re-exports)

(Lb.)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Mercury .. ..	1,784,538	1,133,854	3,031,024	960,397	425,900	1,431,510
Chloride .. ..	(a)	(a)	(a)	248	41,193	74,582
Anglo-Egyptian Sudan—						
Mercury .. ..	150	207	223	201	229	(a)
Southern Rhodesia—						
Mercury .. ..	14,799	14,477	20,051	11,088	5,822	8,147
South West Africa—						
Mercury .. ..	56	179	39	108	(a)	(a)
Tanganyika—						
Mercury .. ..	3,100	(a)	(a)	(a)	(a)	(a)
Union of South Africa—						
Mercury .. ..	58,960	51,400	67,151	33,645	82,729	(a)
Canada (b)—						
Mercury .. ..	803,878	277,927	614,005	308,088	144,277	196,412
Mercury salts .. ..	(£1,072)	(£222)	(£1,436)	(£4,220)	(£9,906)	(£12,330)
Newfoundland (c)—						
Mercury .. ..	198	(c)	(c)	(c)	(c)	(c)
British Guiana—						
Mercury .. ..	632	650	936	1,259	559	(a)
Hong Kong (total imports)—						
Mercury .. ..	396,644	133,456	91,960	4,636	—	9,502
India—						
Mercury .. ..	686,126	1,080,160	2,140,362	719,582	163	(g) 276,993
Malaya (total imports)—						
Mercury .. ..	1,447	845	4,061	849	1,540	1,080
Australia—						
Mercury (d) .. ..	85,133	43,738	61,408	96,578	45,413	44,893
Mercury salts .. ..	38,655	86,482	191,589	105,522	160,122	(f) 33,160
New Zealand—						
Mercury .. ..	4,576	943	2,539	2,519	1,671	3,419
Mercury salts .. ..	(a)	3,696	48,608	2,688	5,824	4,592
<b>FOREIGN COUNTRIES</b>						
Austria—						
Mercury .. ..	12,346	22,928	40,124	41,447	34,392	30,644
Mercury salts .. ..	441	—	—	—	—	22,487
Belgium-Luxemburg E.U.—						
Mercury .. ..	127,868	94,799	218,258	61,729	83,776	72,753
Sulphide of mercury .. ..	24,251	2,205	4,409	2,205	2,205	2,205
Other mercury salts .. ..	39,666	4,409	4,409	—	2,205	13,228
Czechoslovakia—						
Mercury .. ..	(e) 53,352	(a)	(a)	(a)	(a)	(a)
Denmark—						
Mercury .. ..	26,235	20,503	54,013	11,905	3,086	13,448
Finland (total imports)—						
Mercury and amalgam .. ..	9,345	66,893	32,309	23,473	23,303	39,185
France—						
Mercury .. ..	942,917	268,743	605,830	856,716	464,514	575,627
Mercury salts .. ..	—	—	68,343	11,905	2,205	—
Germany (Federal)—						
Cinnabar .. ..	432,955	441	—	—	—	(a)
Mercury .. ..		254,193	720,912	438,940	336,425	649,261
Mercury salts .. ..		—	110	—	—	—

(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) Revised.

(e) January to October only.

(f) Years ended June 30 of that stated.

(g) Excess of re-exports.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
Greece—						
Mercury .. ..	3,799	6,837	514	86	3,468	57
Netherlands—						
Mercury .. ..	112,436	125,663	121,254	81,571	46,297	70,548
Mercury salts .. ..	50,706	41,887	48,502	(a)	24,255	50,706
Norway—						
Mercury .. ..	4,445	35,364	69,648	119,080	25,014	60,815
Portugal—						
Mercury .. ..	6,146	14,399	3,287	55,709	16,574	13,151
Mercury salts .. ..	9,121	8,142	2,216	3,931	1,393	2,910
Sweden—						
Mercury .. ..	279,667	57,818	249,122	130,073	27,891	72,753
Switzerland—						
Mercury .. ..	101,832	55,065	152,824	117,149	25,020	72,234
Algeria—						
Mercury .. ..	3,968	—	—	1,984	2,205	3,527
Mercury salts .. ..	—	—	—	—	1,102	661
Egypt—						
Mercury .. ..	558	1,537	4,901	4,442	2,950	1,876
Morocco (French)—						
Mercury .. ..	988	3,307	1,682	(a)	1,230	(a)
Mozambique—						
Mercury .. ..	152	79	179	218	53	(a)
Tunis—						
Mercury .. ..	441	(a)	(a)	(a)	(a)	(a)
Cuba (total imports)—						
Mercury .. ..	18,140	3,710	3,426	4,169	(a)	
United States—						
Mercury .. ..	2,428,248	7,838,705	4,262,056	3,637,338	5,460,998	6,337,885
Mercury salts .. ..	—	44,519	26,023	82,908	25,019	29,891
Argentina—						
Mercury salts .. ..	(a)	(a)	(a)	(a)	503	3,018
Brazil (total imports)—						
Mercury .. ..	102,268	45,226	(a)	127,385	21,451	97,160
Chile—						
Mercury .. ..	417	(a)	(a)	(a)	(a)	(a)
Dutch Guiana—						
Mercury .. ..	—	115	(a)	(a)	(a)	(a)
Peru—						
Mercury .. ..	692	1,003	578	2,059	1,881	(a)
Mercury salts .. ..	271	358	351	1,745	734	(a)
Uruguay—						
Mercury .. ..	478	73	3,157	194	(a)	(a)
Venezuela—						
Mercury .. ..	14,081	13,606	(a)	(a)	(a)	(a)
Mercury salts .. ..	6,144	8,241	8,653	4,330	(a)	(a)
Iran (total imports) (b)—						
Mercury .. ..	25,366	37	(a)	29	(a)	(a)
Japan—						
Mercury .. ..	(a)	(a)	(a)	418,049	(a)	366,313
Philippine Republic—						
Mercury .. ..	(a)	(a)	584	516	(a)	(a)
Turkey—						
Mercury .. ..	509	353	692	187	348	
Mercury salts .. ..	1,404	604	1,274	3,325	4,109	

(a) Information not available.

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

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

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Kenya .. .. .	—	4	1	1	2	—
Northern Rhodesia—						
Sheet .. .. .	—	3	2	5	16	8
Nyasaland .. .. .	—	—	—	—	(12 cwt.)	—
Southern Rhodesia—						
Block and sheet .. .. .	270	85	402	93	93	66
Crude and waste .. .. .	17	213				
South West Africa—						
Waste .. .. .	—	—	58	112	—	—
Tanganyika—						
Block and sheet .. .. .	66	55	58	74	118	80
Ground .. .. .	3	36	59	—	—	—
Waste .. .. .	—	—	25	—	—	—
Uganda .. .. .	1	2	(7 cwt.)	(3 cwt.)	(6 cwt.)	(59 lbs.)
Union of South Africa—						
Sheet .. .. .	1	1	13	5	5	5
Waste .. .. .	1,339	1,048	1,336	1,746	2,621	1,912
Canada (sales)—						
Rough mine-run or						
rified .. .. .	10	4	(20 lbs.)	123	6	28
Trimmed .. .. .	33	21	81	103	28	23
Splittings .. .. .	8	4	1	3	3	4
Sold for mechanical						
splittings .. .. .	142	4	47	49	47	75
Ground .. .. .	1,673	828	989	921	441	297
Scrap .. .. .	1,659	678	614	1,017	374	552
Ungraded .. .. .	3	19	—	—	—	1
By varieties—						
Phlogopite .. .. .	3,304	1,280	1,445	1,589	669	802
Muscovite .. .. .	224	277	287	626	230	178
Ceylon (exports) .. .. .	—	—	—	(4 cwt.)	9	6
India (exports)—						
Blocks .. .. .	679	417	764	1,617	1,456	1,714
Splittings .. .. .	10,196	9,023	11,978	13,726	5,649	5,451
Scrap .. .. .	7,273	4,098	3,679	9,180	8,244	5,104
Australia (b)—						
Block .. .. .	40	29	30	23	32	32
Scrap .. .. .	19	(34 lbs.)	23	37	—	—
<b>FOREIGN COUNTRIES</b>						
Austria .. .. .	89	249	362	302	—	—
France .. .. .	—	—	(c) 492	(c) 449	182	(a)
Italy .. .. .	23	(a)	(a)	(a)	(a)	(a)
Norway (incl. waste) .. .. .	151	326	544	969	523	980
Spain .. .. .	11	9	13	11	8	13
Sweden (sales)—						
Block .. .. .	14	11	2	41	8	3
Ground .. .. .	49	49	162	170	155	169
Angola—						
Sheet .. .. .	10	12	15	15	28	19
Waste and splittings .. .. .	96	43	151	119	197	10
Eritrea .. .. .	(13 cwt.)	(8 cwt.)	1	(a)	(a)	(a)
Madagascar—						
Phlogopite (block) .. .. .	499	944	789	943	1,052	803
Morocco (French) .. .. .	142	53	81	36	6	13

(a) Information not available.

(b) The following amounts of Damourite were also produced (long tons): 1948—362; 1949—692; 1950—696; 1951—505; 1952—461; 1953—445.

(c) Including chlorite.

PRODUCTION OF MICA (cont.)

Producing Country	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b> (cont.)						
Mozambique .. ..	—	101	41	10	2	3
Mexico (exports) ..	27	13	173	32	—	15
United States (sales)—						
Sheet (uncut) .. ..	121	229	258	266	312	(d) 377
Scrap (b) .. ..	46,569	29,336	61,929	64,171	67,175	(d) 65,400
Argentina .. ..	(a)	(c) 269	(c) 303	(a)	(c) 2	(c) 100
Brazil .. ..	1,868	1,341	1,784	2,088	(c) 1,240	(a)
Uruguay .. ..	2	1	1	1	(a) 14	(a)
Formosa .. ..	(a)	(a)	(a)	477		23
<b>TOTAL*</b> .. ..	<b>73,100</b>	<b>49,300</b>	<b>85,500</b>	<b>99,000</b>	<b>91,000</b>	<b>86,000</b>

\* Excluding mica produced in Roumania, U.S.S.R. and China.

(a) Information not available.

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

(c) Exports.

(d) Estimated.

EXPORTS OF MICA

(Domestic Produce)

(Long tons)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Splittings .. .. .	294	487	479	35	20	5
Ground and waste .. .. .				691	494	675
Southern Rhodesia—						
Block and sheet .. .. .	312	443	513	100	108	66
Waste .. .. .				337	154	277
Tanganyika—						
Block and sheet .. .. .	71	57	50	70	109	78
Ground and waste .. .. .	3	36	84	—	16	51
Uganda .. .. .	2	2	—	—	—	—
Union of South Africa (b)	1,287	892	1,050	838	1,746	2,067
Canada—						
Rough cobbled and thumb trimmed .. .. .	162	79	104	302	102	143
Splittings .. .. .	5	13	—	—	2	—
Ground .. .. .	947	192	250	346	197	143
Scrap and waste .. .. .	892	303	528	438	397	605
Ceylon .. .. .	—	—	—	(4 cwt.)	9	6
India—						
Blocks .. .. .	679	417	764	1,617	1,456	1,714
Splittings .. .. .	10,196	9,023	11,978	13,726	5,649	5,451
Scrap .. .. .	7,273	4,098	3,679	9,180	8,244	5,104
Australia—						
Block .. .. .	£A13,487	2	2	4	—	2
Ground and scrap .. .. .		11	19	6	5	4
Micanite .. .. .		—	—	—	4	5
<b>FOREIGN COUNTRIES</b>						
Austria .. .. .	93	431	78	315	77	83
Belgium-Luxemburg						
E.U.—						
Crude sheets and plates	20	43	15	21	7	14
France—						
Unmanufactured .. .. .	42	76	83	113	63	99
Sheet, plate and manufactures .. .. .	14	9	24	36	49	48
Germany (Federal)—						
Unmanufactured .. .. .	—	—	—	1	43	85
Italy—						
Sheet and manufactured	4	3	—	11	14	14
Netherlands .. .. .	7	6	6	25	11	15
Norway—						
Sheet .. .. .	89	111	562	538	498	501
Scrap .. .. .	149	20	30	30	14	325
Sweden .. .. .	(a)	(a)	1	10	48	37
Angola (b) .. .. .	(a)	(a)	23	(a)	80	(a)
Madagascar—						
Phlogopite, etc. .. .. .	700	794	822	677	725	638
Morocco (French) .. .. .	—	—	139	113	4	4
Mozambique .. .. .	2	1	—	1	4	(a)
Mexico .. .. .	27	13	173	32	—	15
United States—						
Unmanufactured .. .. .	151	51	150	178	264	20
Ground and manufactured .. .. .	1,101	938	1,231	1,514	1,943	2,124
Argentina .. .. .	(a)	269	303	(a)	2	100
Brazil .. .. .	971	550	811	1,329	1,240	(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	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Slabs .. .. .	614	94	(b) 407	292	671	301
Splittings .. .. .	1,649	1,704	1,202	3,062	1,546	492
Ground and waste .. .. .	3,300	4,225	2,031	4,138	4,197	3,263
Tanganyika .. .. .	3	—	—	—	9	(b) 1
Union of South Africa—						
Mica and micanite sheets	15	11	16	29	32	(a)
Canada—						
Mica and manufactures	(£100,904)	(£150,744)	(£249,285)	(£326,717)	(£257,667)	(£259,339)
India—						
Block .. .. .	110	62	130	72	—	3
Splittings .. .. .	29	19	125	26	12	26
Australia (e)—						
Block .. .. .	14	14	27	29	9	16
Splittings .. .. .	79	62	68	69	31	29
Ground and scrap .. .. .	17	74	79	130	46	45
Micanite .. .. .	4	(3 cwt.)	1	2	4	(a)
New Zealand—						
Powder .. .. .	(a)	5	10	17	7	15
Other (£N.Z.) .. .. .	(a)	(£7,072)	(£12,834)	(£27,810)	(£17,897)	(£14,549)
<b>FOREIGN COUNTRIES</b>						
Austria—						
Crude .. .. .	(a)	2	6	23	22	74
Sheet .. .. .	15	31	18	29	33	24
Belgium-Luxemburg						
E.U.—						
Crude sheet and crude plate .. .. .	453	204	399	649	572	841
Cut sheet and cut plate .. .. .	62	34	—	—	25	—
Czechoslovakia .. .. .	(d) 30	(a)	(a)	(a)	(a)	(a)
Denmark—						
Block .. .. .	21	23	87	550	147	232
Powder .. .. .	25	302	842	367	2,383	2,168
France—						
Unmanufactured .. .. .	652	695	1,545	1,634	1,336	998
Sheet, plate and manufactures .. .. .	11	4	5	7	8	12
Germany (Federal)—						
Unmanufactured .. .. .	—	443	951	1,367	1,924	2,406
Italy—						
Unmanufactured .. .. .	433	852	1,147	3,410	11,354	2,525
Sheet and manufactured .. .. .	6	6	21	29	141	106
Netherlands .. .. .						
Unmanufactured .. .. .	263	80	251	269	229	297
Sheet, plate and manufactured .. .. .	45	34	36	56	34	53
Portugal .. .. .	5	11	12	—	2	21
Sweden .. .. .	(a)	188	627	407	634	786
Egypt .. .. .	(b) 2	—	—	(a)	—	1
Mexico .. .. .	126	64	140	80	34	58
United States—						
Unmanufactured .. .. .	7,624	5,591	5,419	6,821	6,937	4,666
Cut, splittings and manufactured .. .. .	8,355	8,689	11,113	10,045	4,711	5,146
Japan .. .. .	130	224	80	469	605	1,407
Turkey .. .. .	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.

(e) Revised.

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

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Canada (shipments) ..	2,721	—	925	3,407	4,518	2,893
Hong Kong .. ..	—	—	—	2	7	30
Australia .. ..	60	106	86	27	2	37
<b>FOREIGN COUNTRIES</b>						
Austria .. ..	—	340	625	755	689	—
Norway .. ..	2,641	2,316	2,185	4,116	4,190	4,744
Sweden .. ..	20	98	118	—	—	—
United States .. ..	397,411	335,268	423,809	578,196	643,735	851,830
Chile .. ..	17,454	18,346	31,652	56,572	53,935	45,129
Peru .. ..	68	82	48	105	111	(a)
Japan .. ..	32	—	434	1,760	2,929	5,934
Korea (South) .. ..	34	306	185	66	214	294
<b>TOTAL*</b> .. ..	<b>420,400</b>	<b>356,860</b>	<b>460,060</b>	<b>645,000</b>	<b>710,330</b>	<b>911,000</b>

\* 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	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom— Ferro-molybdenum ..	1,400	2,620	2,940	1,560	4,640	6,240
Australia— Ore and concentrates ..	—	70	—	20	5	—
<b>FOREIGN COUNTRIES</b>						
Finland— Ore .. .. .	—	643	—	—	—	—
France— Molybdic acid and molybdates .. ..	—	43	24	12	10	30
Norway— Ore .. .. .	2,600	1,742	1	6,424	4,919	4,842
Sweden— Ore .. .. .	39	—	—	—	20	—
Ferro-molybdenum ..	1,965	4,199	4,134	20	2,357	690
United States— Ore and concentrates ( <i>MoS<sub>2</sub></i> content) ..	61,539	79,222	92,844	55,536	91,913	104,801
Metal, alloys and scrap Ferro-molybdenum ..	503	769	1,304	974	1,538	195
Chile— Ore .. .. .	10,620	8,520	10,520	13,249	9,733	5,771
Peru— Ore ( <i>MoS<sub>2</sub></i> content) ..	23,125	5,905	41,336	80,700	66,930	51,180
	79	—	130	35	183	(a)

(a) Information not available.

## IMPORTS OF MOLYBDENUM ORE, ETC.

(Less Re-exports)

(Cwt.)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Ore .. .. .	45,754	52,622	61,716	62,458	65,322	78,574
Metal .. .. .	2	6	8	32	27	7
Canada—						
Oxide ( <i>Mo content</i> ) ..	1,790	2,180	3,732 (c)	5,054	(a)	(a)
Ferro-molybdenum ( <i>Mo content</i> ) ..	1,200	960	1,143 (c)	2,821	(a)	(a)
Australia—						
Ferro-molybdenum ..	(a)	(a)	(b) 229	820	1,120	1,020
<b>FOREIGN COUNTRIES</b>						
Austria—						
Molybdic acid .. ..	(a)	22	356	317	504	137
Ferro-molybdenum ..	(a)	(a)	3,287	2,517	2,870	1,762
Finland—						
Ferro-molybdenum ..	203	245	202	359	752	1,152
France—						
Metal and alloys ..	31	22	—	51	100	45
Molybdic acid and molybdates .. ..	4	33	45	98	49	35
Italy—						
Ore .. .. .	(a)	(a)	(a)	(a)	3,911	3,799
Ferro-molybdenum ..	1,214	514	1,708	1,555	4,369	5,545
Sweden—						
Ore .. .. .	8,248	20,452	20,412	16,141	16,003	10,669
Ferro-molybdenum ..	818	3,706	2,047	394	181	1,181
United States—						
Ore ( <i>MoS<sub>2</sub> content</i> ) ..	—	—	—	63	739	—
Japan—						
Ore and concentrates ..	(a)	(a)	37	1,473	2,261	4,311

(a) Information not available.

(b) Years ended June 30 of that stated.

(c) Gross weight.

## MONAZITE AND RARE EARTH MINERALS

### PRODUCTION OF MONAZITE AND RARE EARTH MINERALS

(Long tons)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Ceylon—						
Monazite .. ..	(a)	(a)	(a)	(a)	14	50
India—						
Monazite .. ..	(a)	(a)	(a)	(a)	(a)	(a)
Australia (b)—						
High-grade concentrates .. ..	—	—	29	38	119	184
Low-grade concentrates	167	186	133	293	148	69
<b>FOREIGN COUNTRIES</b>						
Belgian Congo—						
Monazite .. ..	—	—	—	36	14	11
Bastnaesite .. ..	25	43	53	122	211	361
Egypt—						
Monazite .. ..	6	3	71	1	6	6
Madagascar—						
Bastnaesite .. ..	—	—	—	2	3	9
Brazil (exports)—						
Monazite .. ..	1,756	2,278	(a)	(a)	(a)	(a)

Monazite is also produced in Malaya, Union of South Africa and the United States. Bastnaesite is also produced in the United States.

(a) Information not available.

(b) Monazite content.

**EXPORTS OF MONAZITE, ETC.**

*(Domestic Produce)*

*(Long tons)*

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
India—						
Monazite sand .. ..	(a)	50	(a)	114	(a)	(a)
Australia—						
Concentrates .. ..	(a)	(a)	35	44	91	180
<b>FOREIGN COUNTRIES</b>						
France—						
Monazite .. ..	—	1	—	—	—	—
Madagascar—						
Bastnaesite .. ..	—	—	—	2	1	9
United States—						
Cerium ores etc. ..	(a)	(a)	(a)	38	22	37
Brazil—						
Monazite sand .. ..	1,756	2,278	(a)	(a)	(a)	(a)

(a) Information not available.

**IMPORTS OF MONAZITE, ETC.**

*(Less Re-exports)*

*(Long tons)*

Importing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Canada—						
Thorium and cerium salts .. ..	(£17,103)	(£14,586)	(£11,171)	(£23,038)	(£20,382)	(£11,455)
<b>FOREIGN COUNTRIES</b>						
France—						
Monazite .. ..	14	120	305	448	248	24
United States—						
Monazite sand and thorite .. ..	(a)	148	(a)	(a)	(a)	(a)

(a) Information not available.

**NICKEL**  
**PRODUCTION OF NICKEL ORE**

(In terms of metal)

(Long tons)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Union of South Africa (b)	451	559	829	1,120	1,289	1,688
Canada .. .. .	117,625	114,901	110,410	123,128	125,499	128,541
<b>TOTAL .. .. .</b>	<b>118,076</b>	<b>115,459</b>	<b>111,239</b>	<b>124,248</b>	<b>126,788</b>	<b>130,229</b>
<b>FOREIGN COUNTRIES</b>						
Finland (c) .. .. .	—	—	—	82	397	399
U.S.S.R. (d) (h) .. .. .	25,000	25,000	29,000	32,000	36,000	39,000
Cuba (e) .. .. .	—	—	—	—	11,463	16,300
United States (f) .. .. .	788	705	815	675	565	537
New Caledonia (g) (h) .. .. .	3,376	2,456	4,242	6,604	10,487	16,792
<b>TOTAL* (h) .. .. .</b>	<b>29,200</b>	<b>28,200</b>	<b>34,200</b>	<b>39,400</b>	<b>58,900</b>	<b>73,000</b>
<b>WORLD'S TOTAL* (h)</b>	<b>147,300</b>	<b>143,700</b>	<b>145,400</b>	<b>163,600</b>	<b>185,700</b>	<b>203,000</b>

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

(a) Information not available.

(b) Nickel content of platinum matte.

(c) Nickel content of concentrates.

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

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

Long tons				Long tons			
1948 .. .. .	—	1951 .. .. .	—	1948 .. .. .	—	1951 .. .. .	—
1949 .. .. .	—	1952 .. .. .	—	1949 .. .. .	7,968	1952 .. .. .	7,968
1950 .. .. .	—	1953 .. .. .	—	1950 .. .. .	12,361	1953 .. .. .	12,361

(f) Nickel content of salts and nickel produced as a by-product in the electrolytic refining of copper (partly from imported blister copper).

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

Long tons				Long tons			
1948 .. .. .	7,902	1951 .. .. .	7,680	1948 .. .. .	7,680	1951 .. .. .	7,680
1949 .. .. .	5,071	1952 .. .. .	6,678	1949 .. .. .	6,678	1952 .. .. .	6,678
1950 .. .. .	7,853	1953 .. .. .	7,400	1950 .. .. .	7,400	1953 .. .. .	7,400

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

Long tons				Long tons			
1948 .. .. .	2,427	1951 .. .. .	4,358	1948 .. .. .	4,358	1951 .. .. .	4,358
1949 .. .. .	3,764	1952 .. .. .	5,827	1949 .. .. .	5,827	1952 .. .. .	5,827
1950 .. .. .	4,842	1953 .. .. .	5,856	1950 .. .. .	5,856	1953 .. .. .	5,856

(h) Revised.

EXPORTS OF NICKEL

(Domestic Produce)

(Long tons)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Cubes, rondels, etc. ..	6,244	10,700	8,268	7,124	10,185	11,634
Plates, sheets, etc. ..	247	169	189	101	117	168
Ingots, sheets, wire, etc. (alloys) ..	1,864	2,336	2,530	1,729	2,087	1,431
Scrap and alloyed ..	1,600	2,600	7,431	4,513	1,468	3,274
Nickel oxide ..	19	112	176	180	194	324
Union of South Africa—						
Matte (Ni content) ..	405	607	575	1,112	1,412	1,512
Canada—						
Matte or speiss (Ni content) ..	45,358	50,806	47,402	51,680	56,922	57,062
Nickel, fine ..	63,613	61,686	59,727	64,605	68,802	71,347
Nickel oxide (Ni content) ..	8,743	1,028	1,489	843	1,081	1,160
<b>FOREIGN COUNTRIES</b>						
Belgium-Luxemburg						
E.U.—						
Ingots, scrap, etc. ..	35	9	47	57	75	66
Sheets, wire, etc. ..	24	7	10	3	4	—
Czechoslovakia—						
Crude and scrap ..	—	(a)	(a)	(a)	(a)	(a)
Plates and sheets ..	—	(a)	(a)	(a)	(a)	(a)
Denmark—						
Crude and scrap ..	21	19	102	35	66	210
Finland—						
Ore .. ..	—	—	920	—	460	416
France—						
Ore .. ..	20	20	—	27	—	20
Matte and speiss ..	10	—	625	2	—	—
Ingots .. ..	3	8	399	433	92	203
do. (alloys) ..	—	—	140	21	10	42
Sheets and wire ..	1	2	3	18	4	7
do. (alloys) ..	21	29	43	39	12	7
Germany (Federal)—						
Crude and scrap ..	—	—	827	29	74	54
Bars, sheets, wire, etc. ..	21	11	264	178	350	415
Italy—						
Ore .. ..	(a)	(a)	(a)	—	150	19
Ingots .. ..	98	—	—	1	1	2
Scrap .. ..	—	—	—	14	5	—
Sheets, tubes, wire and alloys .. ..	723	867	37	16	—	1
Netherlands—						
Crude and scrap ..	141	258	294	78	(b) 16	70
Norway—						
Ore .. ..	—	—	—	3,753	—	—
Crude .. ..	7,193	7,421	9,645	9,575	11,750	13,750

(a) Information not available.

(b) Scrap only.

## EXPORTS OF NICKEL (cont.)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
Sweden—						
Crude .. .. .	—	—	—	—	—	—
Switzerland—						
Crude, scrap and alloys	94	92	696	333	107	468
Bars, sheets, etc. and alloys .. .. .	336	402	547	136	109	277
Cuba—						
Nickel Oxide .. .. .	—	—	—	—	10,778	16,276
United States—						
Bars, rods, sheets and alloys .. .. .	1,208	719	302	172	1,011	2,937
Scrap and alloys .. .. .	5,202	2,486	2,534	3,565	5,243	10,199
Nickel-silver bars, etc.	563	457	222	198	(a)	(a)
Japan—						
Ingots, slabs and grains do. alloyed .. .. .	(a)	(a)	(a)	(a)	(a)	464
Bars, rods, plates and sheets .. .. .	(a)	(a)	(a)	(a)	(a)	21
New Caledonia—						
Ore (3% to 6% Ni) .. .. .	—	—	—	6,889	108,145	204,626
Matte (75% to 78% Ni)	3,612	5,793	5,699	4,075	3,774	5,159
Ferro-nickel (32% to 35% Ni) .. .. .	—	—	326	3,533	8,744	6,679

(a) Information not available.

IMPORTS OF NICKEL

(Less Re-exports)

(Long tons)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
<b>United Kingdom—</b>						
Ore, concentrates and matte .. .. .	26,403	32,771	25,221	34,260	33,835	33,879
Ingots, cubes, rondels, etc. .. .. .	4,685	2,292	2,480	3,225	4,578	5,879
Plates, sheets, etc. .. .. .	414	270	12	47	8	14
Ingots, sheets, etc. (alloys) .. .. .	4,296	1,243	1,111	2,288	1,941	3,503
Scrap and alloyed .. .. .	276	297	820	221	784	1,246
Nickel oxide .. .. .	221	456	539	491	653	469
<b>Canada—</b>						
Ingots or blocks incl. alloyed .. .. .	37	12	19	43	28	402
Bars, rods, sheets, etc. incl. alloyed .. .. .	1,180	1,280	1,175	1,075	1,444	2,351
<b>Hong Kong (total imports)—</b>						
Sheets, rods, wire, etc. .. .. .	3	1	2	—	8	38
<b>Australia—</b>						
Pigs and ingots .. .. .	285	1,221	407	302	613	632
Bars and rods .. .. .	32	59	57	42	10	20
Scrap .. .. .	(b) 143	15	6	161	2	(b) —
<b>New Zealand—</b>						
Ingots, bars, sheets, etc. do. (alloyed) .. .. .	(a) (a)	5 32	68 52	14 70	5 81	4 26
<b>Irish Republic—</b>						
Nickel alloys and manufactures .. .. .	8	10	6	5	3	5
<b>FOREIGN COUNTRIES</b>						
<b>Austria—</b>						
Crude .. .. .	199	462	867	663	695	923
Anodes .. .. .	2	26	32	11	13	28
Ingots, sheets, etc. .. .. .	13	31	12	16	3	5
Scrap .. .. .	10	—	—	—	—	—
<b>Belgium-Luxemburg</b>						
<b>E.U.—</b>						
Ingots, etc. .. .. .	4	21	344	357	433	506
Scrap .. .. .	358	291	13	6	7	12
Sheets, wire, etc. .. .. .	477	200	147	166	138	109
<b>Czechoslovakia—</b>						
Crude and scrap .. .. .	(c) 1,639	(a)	(a)	(a)	(a)	(a)
Plates and sheets .. .. .	(c) 29	(a)	(a)	(a)	(a)	(a)
<b>Denmark—</b>						
Crude and scrap .. .. .	101	55	89	58	61	80
<b>Finland (total imports)—</b>						
Crude and scrap .. .. .	100	24	144	210	221	201
<b>France—</b>						
Ore .. .. .	—	—	—	—	6,908	14,898
Matte and speiss .. .. .	2,633	5,734	7,142	5,448	12,167	9,831
Ingots .. .. .	1,447	3,470	190	86	986	1,196
do. (alloys) .. .. .	217	79	108	215	175	56
Bars, sheets and wire do. (alloys) .. .. .	93	71	120	65	78	73
Nickel sulphate and oxide .. .. .	868	679	448	363	649	395

(a) Information not available.

(c) January to October only.

(b) Year ended June 30 of that stated.



## IMPORTS OF NICKEL (cont.)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
Germany (Federal)—						
Ore .. .. .	—	—	581	29,587	1,045	163
Crude and scrap .. .. .	1,774	2,089	5,869	4,080	5,488	7,041
Bars, sheets, wire, etc. .. .	8	26	25	21	11	21
Italy—						
Ingots and alloyed .. .. .	577	526	961	523	961	1,470
Scrap .. .. .	98	375	533	87	104	470
Sheets, tubes, wire, etc. and alloyed .. .. .	226	366	263	96	88	121
Netherlands—						
Crude and scrap .. .. .	224	245	487	323	223	193
Norway—						
Ore .. .. .	—	—	—	—	—	148
Matte (copper-nickel) .. .. .	16,771	19,006	16,362	20,634	26,119	29,576
Crude, bars, rods, etc. .. .	2	7	51	3	9	320
Portugal .. .. .	12	38	21	6	8	29
Spain—						
Crude .. .. .	(a)	(a)	(a)	28	40	(a)
Ingots, bars, etc. .. .. .	365	144	428	230	(a)	(a)
Sweden—						
Crude .. .. .	1,929	2,718	3,342	2,737	2,556	2,881
Switzerland—						
Crude, scrap, and alloyed .. .. .	780	225	604	597	518	608
Bars, sheets, etc. and alloyed .. .. .	432	225	192	320	366	422
Algeria—						
Sheets, wire and alloys .. .. .	2	2	2	—	—	4
Egypt (total imports)—						
Crude, bars, sheets, etc. .. .	22	13	4	14	9	31
Mexico—						
Ingots .. .. .	32	15	44	29	21	20
United States—						
Ore and matte .. .. .	12,370	9,936	9,942	11,454	12,884	13,040
Crude, tubes, etc. and alloys .. .. .	63,899	65,869	62,316	69,209	71,327	76,725
Nickel oxide .. .. .	19,209	10,930	14,559	10,702	21,389	26,643
Brazil (total imports)—						
Cubes and sheets .. .. .	56	132	(a)	223	180	84
Chile—						
Ingots, bars and plates .. .. .	95	(a)	(a)	(a)	(a)	(a)
Iran (total imports) (b)—						
Ingots, bars, etc. .. .. .	—	(a)	(a)	1	(a)	(a)
Japan—						
Ore .. .. .	(a)	(a)	6	532	71,675	198,093
Matte .. .. .	—	(a)	(a)	296	838	451
Ingots, slabs, grains and alloyed .. .. .	(a)	(a)	(a)	326	329	86
Bars, rods, sheets and alloyed .. .. .	(a)	(a)	(a)	165	736	1
Turkey—						
Ingots, bars, and sheets .. .. .	8	—	11	—	7	(a)

(a) Information not available.

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

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

Producing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
India— Nitrate of potash ..	2,972	6,354	5,501	6,384	8,384	(b) 2,777
<b>FOREIGN COUNTRIES</b>						
Spain— Nitrate of potash ..	400	(a)	(a)	(a)	(a)	(a)
Chile— Nitrate of soda ..	1,758,518	1,741,957	1,588,653	1,657,804	1,405,267	1,397,812

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

(a) Information not available.

(b) Incomplete.

## ESTIMATED PRODUCTION OF MANUFACTURED NITROGEN COMPOUNDS\*

(Long tons)

Producing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom (b)— Total ammonia products basis 25% NH <sub>3</sub> .. .. .	1,648,800	1,691,100	1,803,400	1,906,300	2,012,500	2,130,900
Actual ammonium sulphate .. .. .	901,000	924,500	960,700	968,100	1,015,400	1,047,000
Canada— Ammonium sulphate .. .. .	192,062	201,741	188,870	186,749	202,379	175,311
India— Ammonium sulphate .. .. .	35,210	45,935	48,845	46,747	220,302	319,247
Australia— Ammonium sulphate (c)	39,489	53,247	48,736	57,893	63,815	71,192
<b>FOREIGN COUNTRIES</b>						
Austria— Lime ammonium nitrate	261,909	283,605	358,176	429,122	424,787	(d) 482,222
Belgium— N content— Synthetic ammonia etc. . . . .	153,495	167,776	154,867	188,639	186,447	179,426
Ammonium sulphate	12,159	11,486	10,767	15,557	15,802	15,587
Cyanamide .. .. .	5,333	(a)	(a)	(a)	(a)	(a)
Mixed fertilizers .. .. .	2,181	2,531	2,874	3,618	4,318	4,055
Technical products .. .. .	9,260	7,607	6,442	13,050	8,803	5,638
Czechoslovakia— Nitrogen fertilizers .. .. .	158,000	(a)	(a)	(a)	(a)	(a)
Finland— Cyanamide .. .. .	(a)	(a)	(a)	2,646	947	3,881
Nitrate of lime .. .. .	(a)	(a)	(a)	(a)	(a)	43,936
Ammonium nitrate .. .. .	(a)	(a)	(a)	(a)	(a)	1,481
Ammonium sulphate .. .. .	(a)	(a)	(a)	(a)	(a)	5,596
France (c)— Ammonium sulphate .. .. .	242,646	268,008	249,231	227,100	236,740	199,350
Cyanamide .. .. .	18,000	16,480	24,133	42,070	33,760	36,650
Nitrate of soda .. .. .	21,200	34,100	42,744	31,060	33,190	31,080
Nitrate of lime .. .. .	179,000	175,470	195,768	217,100	240,800	214,380
Nitrate of ammonia .. .. .	177,600	175,700	198,475	265,280	270,300	288,100
"Ammonitrate" .. .. .	102,900	133,600	178,771	187,500	269,092	294,210
Germany (Federal)— Chemical nitrogen (N content)— Fertilizer .. .. .	250,233	360,691	433,241	473,843	592,831	616,122
Technical use .. .. .	(a)	49,148	67,689	84,108	73,063	106,403
Italy— Ammonium sulphate .. .. .	300,322	397,806	321,712	459,405	561,400	} (a)
Cyanamide .. .. .	120,291	53,240	190,550	203,077	156,080	
Nitrate of soda .. .. .	553	3,087	2,486	540	1,269	
Nitrate of lime .. .. .	123,655	152,435	211,491	252,629	219,997	
Nitrate of ammonia .. .. .	20,510	24,056	48,944	73,183	41,681	
Di-ammonium phos- phate .. .. .	6,729	12,278	17,585	24,249	27,863	
Netherlands— Ammonium sulphate (N content) .. .. .	9,740	(a)	(a)	(a)	(a)	(a)
Nitrogen fertilizers (N content) .. .. .	81,773	87,172	153,783	207,301	226,514	244,000

\*Includes by-product ammonium sulphate which is separately recorded as far as available on pages 73-76.

(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) Including ammonium sulphate.

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

Producing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b> (cont.)						
<b>Norway—</b>						
Cyanamide .. .. .	37,475	39,193	47,788	33,675	14,376	28,260
Nitrate of ammonia .. .	3,010	3,227	5,679	5,308	5,662	5,238
Nitrate of lime .. .	428,361	563,632	760,087	868,765	932,421	871,708
Nitrate of soda .. .	2,638	2,524	6,640	2,348	4,210	3,378
Lime ammonium nitrate	21,605	27,285	70,864	55,428	40,372	61,769
<b>Poland—</b>						
Ammonium sulphate .. .	(b) 76,000	(a)	} 507,000	(a)	(a)	(a)
Cyanamide .. .. .	155,742	166,455				
"Saletrzak" .. .. .	} 127,739	128,018				
Nitrate of ammonia .. .						
Other nitrogen fertilizers	50,222	86,799				
<b>Portugal—</b>						
Cyanamide .. .. .	13	12	—	1	(a)	(a)
Ammonium chloride .. .	510	1,079	979	500	(a)	(a)
Nitrate of ammonia .. .	506	447	782	698	(a)	(a)
Nitrate of soda .. .. .	786	265	169	123	(a)	(a)
Ammonium sulphate .. .	744	144	219	469	42,522	(a)
<b>Spain—</b>						
Cyanamide .. .. .	(a)	(a)	(a)	(a)	6,889	(a)
Ammonium nitrate .. .	(a)	(a)	(a)	(a)	27,269	(a)
Ammonium sulphate .. .	9,255	10,300	13,566	28,548	86,325	84,634
<b>Sweden—</b>						
Compressed ammonia (100%) .. .. .	7,403	9,428	10,139	10,439	(a)	(a)
Ammonia (25%) .. .	2,919	2,944	4,134	5,708	(a)	(a)
Synthetic nitrogen fertilizer (N content)	20,529	23,502	25,203	21,788	25,003	28,220
<b>Switzerland—</b>						
Nitrogen fertilizers (N content) .. .. .	12,000	(a)	(a)	(a)	(a)	(a)
<b>United States—</b>						
Sulphate equivalent of ammonia produced (coke-ovens) .. .	830,083	756,970	825,503	890,869	795,224	933,496
Actual ammonium sul- phate (coke-ovens) .. .	769,135	728,244	741,979	802,020	716,440	844,762
Actual ammonium sul- phate (synthetic plants)	236,139	755,531	1,015,822	540,760	725,710	486,877
Anhydrous ammonia (synthetic plants) .. .	973,023	1,155,408	1,397,829	1,586,673	1,832,245	2,041,477
Ammonium nitrate, original .. .. .	882,448	909,559	1,083,849	1,202,181	1,310,126	1,397,107
<b>Brazil (Volta Redonda)—</b>						
Ammonium sulphate .. .	4,209	(a)	(a)	(a)	(a)	(a)
<b>Formosa—</b>						
Cyanamide .. .. .	(a)	(a)	(a)	46,831	67,979	72,085
Ammonium sulphate .. .	(a)	(a)	(a)	4,874	5,640	5,748
Liquid ammonia .. .	(a)	(a)	(a)	129	313	402
<b>Japan—</b>						
Ammonium sulphate .. .	931,209	1,212,893	1,545,165	1,647,963	1,921,446	2,000,612
Cyanamide .. .. .	201,723	344,109	449,105	408,820	517,476	517,169
Ammonium nitrate .. .	9,755	9,933	13,299	28,735	26,089	32,290
Ammonium chloride .. .	2,575	4,134	7,759	13,641	27,318	34,640

(a) Information not available.

(b) Estimated.

EXPORTS OF NITROGEN COMPOUNDS

(Domestic Produce)

(Long tons)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Nitrate of potash ..	2,854	1,196	1,868	2,364	1,314	1,309
Nitrate of soda ..	28	542	1,170	7,554	2,171	1,672
Ammonium sulphate ..	221,044	262,142	277,086	225,537	447,348	393,546
Ammonium chloride ..	13,431	13,023	14,725	15,283	10,315	12,922
Ammonium nitrate ..	97,075	67,614	58,572	63,756	55,762	33,481
Ammonium phosphate ..	766	578	520	720	524	568
Liquid ammonia ..	850	937	932	1,117	893	844
Anhydrous ammonia ..	1,432	1,697	3,457	3,337	1,992	3,787
Other nitrogen fertilizers	(a)	(a)	(a)	(a)	(a)	7,884
Canada—						
Ammonium sulphate ..	130,695	149,194	186,706	130,110	178,287	131,581
Nitrogen fertilizers ..	(a)	(a)	338,586	266,271	305,361	304,232
Hong Kong (re-exports)—						
Nitrate of potash ..	—	—	—	—	—	—
Nitrate of soda ..	—	—	9	—	—	15
Ammonium sulphate ..	32,992	28,668	117,170	100,751	143,391	137,606
Synthetic nitrate ..						
Ammonium chloride ..	675	385	853	1,567	1,441	4,846
Anhydrous ammonia ..	—	—	—	—	—	2,134
India—						
Nitrate of potash ..	36	15	64	227	59	40
Malaya (including re-exports)—						
Nitrate of potash ..	1	1	5	14	12	7
Other nitrogen fertilizers	200	601	1,092	1,315	862	1,263
Anhydrous ammonia ..	(a)	(a)	31	3	7	12
Australia—						
Nitrate of soda ..	—	—	57	3	—	—
Ammonium sulphate ..	106	34	158	78	31	121
<b>FOREIGN COUNTRIES</b>						
Austria—						
Lime ammonium nitrate	102,312	205,638	289,887	269,822	265,168	(a)
Ammonium nitrate ..	(a)	(a)	—	1,028	20	14
Ammonium sulphate ..	(a)	(a)	1,164	—	2,257	—
Anhydrous ammonia ..	(a)	1,383	9,227	3,528	240	206
Belgium-Luxemburg						
E. U.—						
Nitrate of potash ..	998	1,729	1,111	1,328	379	91
Nitrate of soda ..	24,329	17,108	2,252	359	445	202
Nitrate of lime ..	165	128	—	1,312	9,463	1,373
Ammonium sulphate ..	262,133	232,658	385,680	460,907	354,452	542,356
Ammonium chloride ..	18,832	8,363	1	2,347	185	30
Ammonium nitrate ..	26,158	64,004	67,481	165,817	71,509	112,729
Ammonium carbonate ..	125	34	51	23	28	29
Ammonium phosphate ..	6,021	5,830	996	1,868	2,907	8,723
Cyanamide ..	2,386	2,426	14,824	9,235	2,977	1,076
Liquid ammonia ..	369	110	45	61	83	44
Czechoslovakia—						
Nitrate of potash ..	(b) 4	(a)	(a)	(a)	(a)	(a)
Nitrate of soda ..	(b) —					
Ammonium sulphate ..	(b) —					
Ammonium chloride ..	(b) 39					
Ammonium nitrate ..	(b) 2,365					
Cyanamide ..	(b) —					

(a) Information not available.

(b) January to October only.

## EXPORTS OF NITROGEN COMPOUNDS (cont.)

Exporting and and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b> (cont.)						
<b>France—</b>						
Nitrate of potash ..	3,165	4,157	4,551	3,705	1,328	669
Nitrate of soda ..	565	169	684	1,105	1,011	3,394
Nitrate of lime ..	2,387	1,992	3,352	6,311	5,396	5,255
Ammonium sulphate (b)	36,101	39,808	106,955	95,651	161,686	63,739
Ammonium chloride ..	555	646	1,772	1,553	399	2,511
Ammonium nitrate ..	2,550	1,550	4,824	5,249	2,143	5,190
Cyanamide ..	375	148	819	667	541	221
Liquid ammonia ..	368	185	473	282	222	147
Anhydrous ammonia ..	398	441	552	563	566	667
<b>Germany (Federal)—</b>						
Nitrate of potash ..	—	88	946	1,784	2,662	5,399
Nitrate of soda ..	98	1,251	34,304	3,976	1,978	6,804
Nitrate of lime, etc. ..	355	400	114,946	99,632	91,665	157,705
Lime ammonium nitrate	(a)	(a)	(a)	(d) 17,127	333,477	390,999
Ammonium sulphate, etc. ..	—	654	87,318	219,480	236,107	302,511
Ammonium chloride ..	—	1,367	4,583	5,834	1,966	4,363
Ammonium nitrate, etc.	1	—	4,436	1,750	—	—
Cyanamide ..	—	5	4,893	(c) 4,226	(a)	(a)
Liquid ammonia ..	—	276	126	10,334	30,854	3,831
<b>Italy—</b>						
Nitrate of soda ..	—	20	23	1	249	16
Nitrate of lime ..	3,670	2,291	(a)	—	1,969	16,768
Ammonium nitrate ..	7,200	482	586	10	387	27,347
Ammonium sulphate ..	26,149	41,208	16,890	31,674	172,600	164,050
Cyanamide ..	1,584	1,874	4,721	11,683	6,330	48
<b>Netherlands—</b>						
Nitrate of potash ..	1	5	17	25	14	14
Nitrate of soda ..	(a)	(a)	17	62	26	1
Nitrate of lime ..	31	7,879	7,075	39,302	46,765	45,708
Ammonium sulphate ..	7,187	34,593	103,619	205,218	286,161	278,198
Ammonium chloride ..	121	—	41	56	10	28
Ammonium nitrate ..	(a)	(a)	(a)	(a)	—	797
Lime ammonium nitrate	31	979	(a)	49,620	149,337	198,758
Other nitrogen fertilizers	441	(a)	82	46	—	44
<b>Norway—</b>						
Nitrate of soda ..	2,474	1,807	5,895	4,531	3,957	2,793
Nitrate of lime ..	354,210	538,165	731,883	825,026	618,736	842,488
Ammonium nitrate ..	632	1,241	1,828	1,707	660	163
Cyanamide ..	30,446	40,138	42,282	14,005	17,070	26,497
<b>Spain—</b>						
Ammonium sulphate ..	166	447	709	874	378	(a)
Synthetic nitrates ..	748	1,385	158	713	1,047	—
<b>Sweden—</b>						
Nitrates of potash, soda and lime ..	59	6	34	17	67	4
Ammonium nitrate ..	—	115	297	129	17	12
<b>Switzerland—</b>						
Nitrate of potash (crude)	14,172	1,256	15,449	8,686	10,658	6,801
Nitrates of potash and soda (purified) ..	364	2,154	—	10	68	24
Ammonium sulphate, etc. ..	4,733	2,715	3,217	2,274	5,800	5,963

(a) Information not available.

(c) January to September only.

(b) May include some "Ammonium nitrate".

(d) October to December only.

## EXPORTS OF NITROGEN COMPOUNDS (cont.)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b> (cont.)						
United States—						
Nitrate of soda . . . . .	15,268	3,316	31,448	38,990	8,430	21,615
Ammonium nitrate (b) . . .	4,542	535,220	87,058	5,628	22,022	7,308
Other nitrogen fertilizers . . . . .	(c) 560,368	20,991	36,931	56,936	42,954	41,505
Ammonium sulphate . . . . .	187,934	589,940	737,156	119,732	108,650	35,215
Nitrogen phosphatic fertilizers . . . . .	30,848	179,433	151,379	97,317	54,348	41,120
Anhydrous ammonia . . . . .	3,042	3,508	9,109	5,274	13,778	13,499
Chile—						
Nitrate of soda . . . . .	1,618,919	d 1,470,601	d 1,564,199	1,520,133	1,252,000	1,173,617
Nitrate of potash . . . . .	103,177	52,655	73,619	52,388	47,800	41,715
Japan—						
Ammonium sulphate . . . . .	26,430	—	47,496	21,632	176,633	491,275

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

(c) Including ammonium nitrate fertilizer.  
(d) Revised.

## IMPORTS OF NITROGEN COMPOUNDS

(Less Re-exports)

(Long tons)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Nitrate of potash ..	25	(b) 37	244	489	343	710
Nitrate of soda ..	44,553	43,846	17,000	30,044	16,873	16,598
Cyanamide ..	1,703	1,808	3,615	3,439	7,748	6,116
Ammonium chloride ..	—	—	—	9	—	2
Ammonium nitrate ..	—	—	2	—	—	—
Ammonium phosphate ..	—	—	21	—	—	20
Ammonium sulphate ..	858	—	—	—	(b) 1	5
Anhydrous ammonia ..	2	2	6	13	15	18
Anglo-Egyptian Sudan—						
Nitrogenous fertilizers	3,448	12,576	9,654	10,560	24,201	12,648
Kenya and Uganda—						
Nitrate of soda ..	81	—	—	—	25	—
Synthetic nitrate of soda, calcium and ammonia	1,432	—	—	19	—	—
Other nitrogen fertilizers	440	1,093	707	1,315	3,915	3,089
Mauritius—						
Nitrate of potash ..	1,976	991	988	1,482	988	} 25,015
Nitrate of soda ..	5,829	4,940	6,916	6,622	7,600	
Ammonium chloride ..	—	—	—	—	—	
Ammonium sulphate ..	11,408	19,566	14,078	21,828	22,437	
Northern Rhodesia—						
Nitrates ..	—	—	8	72	119	95
Ammonium compounds	449	570	511	837	827	903
Southern Rhodesia—						
Nitrates (incl. fertilizers)	2,850	1,449	1,559	1,577	2,292	4,404
Anhydrous ammonia ..	9	11	20	19	19	33
South West Africa—						
Anhydrous ammonia ..	7	6	8	9	10	(a)
Tanganyika—						
Nitrate of soda ..	20	1	—	—	2	—
Synthetic nitrate of soda, calcium and ammonia	260	101	2	21	25	10
Other nitrogen fertilizers	26	694	813	853	4,889	—
Union of South Africa—						
Nitrate of soda ..	3,034	248	288	—	—	(a)
Ammonium sulphate ..	4,746	23,892	33,569	41,275	44,349	(a)
Ammonium chloride ..	397	777	599	1,306	317	(a)
Ammonium nitrate ..	12,482	27,484	26,396	16,136	34,489	22,137
Anhydrous ammonia ..	2	3	1	1	—	(a)
British Guiana—						
Ammonium sulphate ..	10,158	15,147	10,329	17,967	12,831	10,855
British West Indies—						
Barbados—						
Nitrate of soda ..	613	1,253	—	—	—	—
Ammonium sulphate ..	6,771	7,582	6,222	12,137	10,039	9,682
Jamaica—						
Nitrogenous fertilizers	5,812	9,313	10,844	15,954	10,909	17,370
St. Vincent—						
Ammonium sulphate	390	560	199	504	925	265
Trinidad and Tobago—						
Ammonium sulphate ..	9,136	5,715	5,275	8,916	11,503	8,615
Canada (c)—						
Nitrate of potash ..	355	439	448	634	350	539
Nitrate of soda ..	17,594	16,938	17,486	23,613	20,042	17,921
Ammonium sulphate ..	116	125	92	281	754	18,977
Ammonium chloride ..	526	388	351	1,128	262	339
Ammonium nitrate ..	93	148	652	1,279	1,251	718
Anhydrous ammonia ..	58	525	5,714	1,214	7,620	7,502

(a) Information not available.

(c) Including Newfoundland from April 1, 1949.

(b) Excess of re-exports.



## IMPORTS OF NITROGEN COMPOUNDS (cont.)

Importing Country and Description	1948	1949	1950	1951	1952	1953	
<b>BRITISH COUNTRIES</b>							
<i>(cont.)</i>							
<b>Newfoundland (b)—</b>							
Nitrogen fertilizers ..	800	(b)	(b)	(b)	(b)	(b)	
Liquid ammonia ..	9						
Anhydrous ammonia ..	5						
<b>Ceylon—</b>							
Nitrate of potash refuse	—	—	2	—	—	1	
Nitrate of soda ..	3,620	3,665	29	—	—	—	
Ammonium sulphate ..	47,298	54,345	49,790	86,306	51,372	77,428	
Cyanamide ..	709	292	160	196	281	403	
<b>Cyprus—</b>							
Ammonium sulphate ..	(a)	(a)	(a)	(a)	(a)	6,750	
Ammonium chloride ..	5	6	6	6	3	6	
Other nitrogen fertilizers	(a)	(a)	(a)	(a)	(a)	3,108	
<b>Hong Kong (total imports)—</b>							
Nitrate of potash ..	—	—	—	—	—	251	
Nitrate of soda ..	—	—	264	—	—	310	
Ammonium sulphate ..	44,055	39,447	100,329	105,195	156,594	108,185	
Synthetic nitrates ..							17
Ammonium chloride ..							1,075
Anhydrous ammonia ..	—	—	—	—	—	(a)	
<b>India—</b>							
Nitrate of soda ..	23,666	33,769	583	10,710	3,705	9,794	
Ammonium sulphate ..	140,009	121,297	410,907	84,684	33,615	77,824	
Ammonium phosphate	4,737	18,666	—	—	1,350	300	
Ammonium chloride ..	3,429	4,438	1,508	4,443	2,729	4,123	
Other ammonium salts	3,629	817	399	2,809	243	646	
Anhydrous ammonia ..	111	144	91	137	45	101	
Other nitrogen fertilizers	5,450	6,428	12,989	450	5,584	4,300	
<b>Malaya (total imports)—</b>							
Other nitrogen fertilizers	10,861	17,131	22,311	29,154	35,964	24,546	
Anhydrous ammonia ..	(a)	(a)	1,472	1,757	561	1,860	
<b>Pakistan (c)—</b>							
Nitrate of soda ..	(a)	(a)	(a)	60	5	30	
Ammonium sulphate ..							
Ammonium chloride ..							
Other ammonium salts							
Anhydrous ammonia ..							
Ammonium sulphate ..	(a)	(a)	(a)	9,448	5,593	92	
Ammonium chloride ..							
Other ammonium salts							
Anhydrous ammonia ..							
Ammonium sulphate ..							26
Ammonium chloride ..							
Other ammonium salts							
Anhydrous ammonia ..							
Ammonium sulphate ..	274	134	122				
Ammonium chloride ..							
Other ammonium salts							
Anhydrous ammonia ..							
Ammonium sulphate ..				68	59	182	
Ammonium chloride ..							
Other ammonium salts							
Anhydrous ammonia ..							
Ammonium sulphate ..	35	218	269				805
Nitrate of potash ..							
Nitrate of soda ..							
Ammonium chloride ..							
Ammonium sulphate ..				8,019	15,324	13,270	
Nitrate of soda ..							
Ammonium chloride ..							
Ammonium sulphate ..							
Ammonium nitrate ..	14	120	21				59
Ammonium sulphate ..							
Ammonium nitrate ..							
Other nitrogen fertilizers							
Ammonium sulphate ..				25,478	28,485	42,749	
Ammonium nitrate ..							
Other nitrogen fertilizers							
Ammonium sulphate ..							
Ammonium nitrate ..	(d) 799	1,218	535				3,092
Other nitrogen fertilizers							
Ammonium sulphate ..							
Ammonium nitrate ..							
Other nitrogen fertilizers				(d) 69	(d) 33	86	
Ammonium sulphate ..							
Ammonium nitrate ..							
Other nitrogen fertilizers							
Ammonium sulphate ..	11	4	91				64
Nitrate of potash ..							
Nitrate of soda ..							
Ammonium sulphate ..							
Ammonium chloride ..				2,504	3,204	3,007	
Nitrate of soda ..							
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..	2,417	3,059	4,254				4,746
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..				216	131	338	
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..	91	110	83				83
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..				—	2	—	
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..	2,719	2,989	4,573				3,508
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..				—	—	—	
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..	—	—	—				—
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..				—	—	—	
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..	—	—	—				—
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..				—	—	—	
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..	—	—	—				—
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..				—	—	—	
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..	—	—	—				—
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..				—	—	—	
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..	—	—	—				—
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..				—	—	—	
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..	—	—	—				—
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..				—	—	—	
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..	—	—	—				—
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..				—	—	—	
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..	—	—	—				—
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..				—	—	—	
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..	—	—	—				—
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..				—	—	—	
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..	—	—	—				—
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..				—	—	—	
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..	—	—	—				—
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..				—	—	—	
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..	—	—	—				—
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..				—	—	—	
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..	—	—	—				—
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..				—	—	—	
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..	—	—	—				—
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..				—	—	—	
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..	—	—	—				—
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..				—	—	—	
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..	—	—	—				—
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..				—	—	—	
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..	—	—	—				—
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..				—	—	—	
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..	—	—	—				—
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..				—	—	—	
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..	—	—	—				—
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..				—	—	—	
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..	—	—	—				—
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..				—	—	—	
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..	—	—	—				—
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..				—	—	—	
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..	—	—	—				—
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..				—	—	—	
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..	—	—	—				—
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..				—	—	—	
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..	—	—	—				—
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..				—	—	—	
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..	—	—	—				—
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..				—	—	—	
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..	—	—	—				—
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..				—	—	—	
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..	—	—	—				—
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..				—	—	—	
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..	—	—	—				—
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..				—	—	—	
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..	—	—	—				—
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..				—	—	—	
Ammonium sulphate ..							
Ammonium chloride ..							
Anhydrous ammonia ..							
Cyanamide ..	—	—	—				—

## IMPORTS OF NITROGEN COMPOUNDS (cont.)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
Austria—						
Nitrate of lime ..		(a)	(a)	2,928	5,404	2,067
Nitrate of potash ..		119	205	206	160	221
Cyanamide ..	(a)	(a)	6,941	4,886	—	884
Ammonium chloride ..		17	176	322	202	75
Belgium-Luxemburg						
E.U.—						
Nitrate of potash ..	41	27	113	124	2	1,176
Nitrate of soda ..	12,902	63	14,162	5,957	25,264	21,715
Nitrate of lime ..	1	100	—	1	318	3,361
Cyanamide ..	2	—	137	728	—	80
Ammonium sulphate ..	16	20	6,673	1,694	2,750	31,886
Ammonium chloride ..	136	597	739	546	644	1,050
Ammonium nitrate ..	—	—	3,497	478	8,205	44,850
Anhydrous ammonia ..	6	6,226	(a)	11,543	(a)	2,162
Czechoslovakia—						
Nitrate of soda ..	(c) —	(a)	(a)	(a)	(a)	(a)
Ammonium chloride ..	(c) 6,776	(a)	(a)	(a)	(a)	(a)
Cyanamide, etc. ..	(c) 84	(a)	(a)	(a)	(a)	(a)
Denmark—						
Nitrate of potash ..	335	587	738	939	567	658
Nitrate of soda ..	39,391	73,600	44,136	40,187	14,076	14,912
Nitrate of lime ..	163,366	241,030	305,619	361,281	357,961	436,668
Ammonium sulphate ..	27,603	9,501	32,182	14,436	9,685	115
Ammonium chloride ..	635	430	820	1,024	409	938
Ammonium nitrate ..	258	198	216	61,662	21,365	32,649
Cyanamide ..	5,190	2,188	3,937	787	—	143
Finland (total imports)—						
Nitrate of potash ..	37	55	30	100	100	67
Nitrate of soda ..	5,637	241	607	565	275	464
Nitrate of lime ..	22,630	38,742	40,209	29,276	62,525	32,496
Ammonium nitrate ..	17,383	10,811	7,262	6,168	31,197	25,284
Ammonium sulphate ..	608	541	23,434	61,504	36,911	24,496
Ammonium chloride ..	43	136	42	319	166	219
Liquid ammonia ..	215	450	402	555	267	30
France—						
Nitrate of soda ..	128,826	107,340	139,242	147,097	59,834	84,660
Nitrate of lime, etc. ..	11,748	22,259	—	1,699	—	—
Ammonium sulphate (b) ..	32,325	10,553	—	25,111	33,602	2,981
Ammonium nitrate ..	119,812	99,430	23,385	28,157	14,452	7,985
Ammonium chloride ..	976	158	1,063	791	616	938
Anhydrous ammonia ..	15,161	13,889	16,077	25,722	19,440	374
Cyanamide ..	6,709	7,577	25,869	—	946	—
Liquid ammonia ..	32	—	2	16	1	1
Germany (Federal)—						
Nitrate of potash ..	—	34	—	10	—	49
Nitrate of soda ..	—	—	—	3,978	—	520
Nitrate of lime, etc. ..	85,864	15	—	—	—	—
Ammonium nitrate ..	164,937	97,833	32,613	—	—	—
Ammonium sulphate ..	—	1	13	—	—	(a)
Ammonium chloride ..	1	—	—	—	25	—
Greece—						
Nitrate of potash ..	10	31	126	123	96	43
Nitrate of soda ..	9,214	3,953	16,671	46,522	20,625	679
Ammonium nitrate ..	6,569	326	26,053	27,594	8,544	3,100
Ammonium sulphate ..	16,211	47,254	23,943	58,645	16,869	65,577
Liquid ammonia ..	758	1,169	745	1,224	1,115	741
Iceland—						
Nitrate of lime ..	833	1,968	1,462	—	(a)	(a)
Nitrate of soda ..	—	492	—	—	(a)	(a)
Ammonium nitrate ..	(a)	2,391	2,705	7,135	(a)	(a)
Lime ammonium nitrate ..	4,104	4,500	4,913	2,461	(a)	(a)
Nitrophoska ..	—	(a)	(a)	295	(a)	(a)
Other nitrogen fertilizers	(a)	1,715	244	177	(a)	(a)

(a) Information not available.

(c) January to October only.

(b) May include some "ammonium nitrate".

## IMPORTS OF NITROGEN COMPOUNDS (cont.)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Italy—</b>						
Nitrate of potash ..	753	1,574	1,839	1,320	928	1,038
Nitrate of soda ..	29,557	4,496	40,564	25,666	18,688	41,794
Nitrate of lime ..	3,675	2,294	10,488	7,814	5,866	5,437
Ammonium chloride ..	279	224	487	413	408	589
Ammonium nitrate ..	642	31	906	5,038	1,613	5,470
Cyanamide ..	50	4,103	8,313	2,948	8,501	1,476
<b>Netherlands—</b>						
Nitrate of potash ..	220	718	1,891	1,647	1,537	1,075
Nitrate of soda ..	69,339	33,160	31,332	1,956	5,494	14,578
Nitrate of lime ..	14,727	13,108	28	314	2,489	15
Ammonium sulphate ..	966	2,340	6,912	285	11	6,818
Ammonium chloride ..	160	241	810	974	613	906
Ammonium nitrate ..	60,178	67,568	5,617	—	1	1
Lime ammonium nitrate	—	—	177,074	109,756	38,937	110,096
Cyanamide ..	11,704	19,501	17,178	12,795	10,260	7,028
Other nitrogen fertilizers	—	15,812	—	—	536	2,044
<b>Norway—</b>						
Nitrate of potash ..	93	169	106	203	80	129
Nitrate of soda ..	—	—	—	—	—	—
Ammonium sulphate ..	162	—	266	266	145	156
<b>Poland—</b>						
Ammonium nitrate ..	(a)	(a)	(a)	(a)	(a)	(a)
<b>Portugal—</b>						
Nitrate of potash ..	122	173	—	1	153	280
Nitrate of soda ..	50,644	29,708	26,969	22,775	32,046	22,645
Ammonium sulphate ..	39,249	37,630	84,804	104,588	60,722	79,427
Ammonium chloride ..	300	774	1,753	61	53	56
Ammonium nitrate ..	4,518	8,194	1,027	1,401	2,307	5,936
Cyanamide ..	974	2,954	6,882	14,745	4,759	6,751
Lime ammonium nitrate	3,008	4,563	1,030	2,095	15,045	25,000
<b>Spain—</b>						
Nitrate of soda ..	73,069	101,670	162,818	30,555	68,295	142,412
Cyanamide ..	975	2,341	3,742	226	5	(a)
Ammonium sulphate ..	45,549	57,751	175,223	172,194	300,471	147,637
Ammonium chloride ..	178	1,424	12,465	16	43	(a)
Synthetic nitrates ..	10,039	27,089	93,004	112,787	112,870	63,767
<b>Sweden—</b>						
Nitrate of potash ..	223	610	542	675	382	636
Nitrate of soda ..	23,520	37,944	34,370	36,174	29,706	23,713
Nitrate of lime ..	78,177	131,916	210,194	284,563	280,700	247,864
Ammonium nitrate ..	1	2,444	6,378	7	2	22
Ammonium sulphate ..	14	15	3,833	8,825	1,677	1,782
Ammonium chloride ..	890	403	634	440	285	671
Cyanamide ..	—	2,529	2,952	—	3,931	4,862
<b>Switzerland—</b>						
Nitrate of potash, crude	—	—	—	—	98	99
Nitrates of potash and soda, purified ..	878	319	932	547	513	661
Ammonium sulphate, etc. ..	105	12	1,089	419	130	558
Ammonium chloride ..	331	323	516	798	269	360
Liquid ammonia ..	—	—	49	5	14	3
<b>Yugoslavia—</b>						
Nitrate of potash ..	(a)	(a)	98	222	219	1
Nitrate of soda ..			9,399	12,210	6,097	5,843
Ammonium chloride ..			82	141	172	(a)
Ammonium sulphate ..			295	79	113	8,061
Ammonium nitrate ..			2,599	8,930	3,932	(a)
Other nitrogen fertilizers	(a)	(a)	(a)	(a)	4,441	
<b>Algeria—</b>						
Nitrate of potash ..	100	16	38	22	20	13
Nitrate of soda ..	8,494	583	345	384	340	459

(a) Information not available.

## IMPORTS OF NITROGEN COMPOUNDS (cont.)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Algeria (cont.)—</b>						
Nitrate of lime ..	1,255	537	2,216	4,104	3,269	3,279
Ammonium sulphate ..	12,666	14,183	14,401	21,608	9,949	16,937
Ammonium nitrate ..	5,304	527	3,664	2,617	1,486	3,957
Cyanamide ..	985	59	578	274	320	89
Liquid ammonia ..	75	80	123	106	95	84
<b>Egypt—</b>						
Nitrate of soda ..	369,245	339,138	348,158	246,893	274,541	171,428
Nitrate of lime ..	32,126	50,732	196,600	177,999	190,073	236,702
Ammonium sulphate ..	63,620	61,895	17,452	65,488	38,297	28,846
Ammonium chloride ..	582	569	485	486	577	433
Ammonium nitrate ..	20,854	104,467	68,278	69,838	37,938	73,810
Nitro-chalk ..	—	—	—	—	492	—
<b>Madagascar—</b>						
Nitrogenous fertilizers	1,177	(a)	(a)	(a)	(a)	(a)
<b>Morocco (French)—</b>						
Nitrate of soda ..	49	285	246	240	188	(a)
Ammonium sulphate ..	—	3,987	5,488	4,299	9,392	(a)
<b>Morocco (Spanish)—</b>						
Ammonium sulphate ..	(a)	(a)	(a)	(a)	(a)	(a)
<b>Tunis—</b>						
Nitrate of potash ..	16	(a)	(a)	(a)	(a)	(a)
Nitrate of soda ..	276	(a)	(a)	275	(a)	(a)
Nitrate of lime ..	20	(a)	(a)	39	(a)	(a)
Ammonium sulphate ..	1,256	(a)	(a)	1,111	(a)	(a)
<b>Cuba—</b>						
Nitrate of potash ..	18,954	13,143	16,842	22,066	(a)	(a)
Nitrate of soda ..	10,368	11,713	7,904	13,496	(a)	(a)
Ammonium sulphate ..	15,906	21,913	28,741	44,263	(a)	(a)
Anhydrous ammonia ..	217	198	443	148	(a)	(a)
<b>Mexico—</b>						
Nitrate of soda ..	15,441	5,628	7,962	12,334	11,007	9,352
Ammonium sulphate ..	2,415	10,947	14,543	2,842	50	23
Ammonium chloride ..	(a)	(a)	(a)	(a)	(a)	(a)
Ammonium nitrate ..	3,026	3,624	4,405	6,783	5,156	4,046
Liquid ammonia ..	1,504	1,338	1,701	2,376	1,302	1,730
<b>United States—</b>						
Nitrates of potash and soda, crude ..	—	6,074	18,240	7,365	14,696	11,175
Nitrate of potash ..	—	6	175	5,866	23,426	15,131
Nitrate of soda ..	643,717	603,163	549,709	648,196	602,972	507,922
Nitrate of lime ..	8,715	34,474	39,581	49,771	35,237	60,530
Ammonium sulphate ..	94,542	94,195	128,154	192,952	212,556	467,730
Ammonium chloride ..	821	739	5,332	2,995	1,663	1,901
Ammonium nitrate ..	89,860	123,836	198,948	306,359	406,079	681,590
Ammonium phosphates	96,632	112,745	95,215	120,575	119,032	148,658
Cyanamide ..	104,021	103,469	87,254	60,921	85,888	73,409
<b>Argentina—</b>						
Nitrate of potash ..	13,319	25,910	21,455	(a)	142	370
Nitrate of soda ..					20,908	7,183
Ammonium sulphate ..					6,855	6,346
Anhydrous ammonia ..					13	—
<b>Brazil (total imports)—</b>						
Nitrate of potash ..	1,168	881	(a)	1,988	1,354	177
Nitrate of soda ..	36,879	37,639	61,509	70,332	45,547	—
Ammonium nitrate ..	75	379	(a)	1,018	508	(a)
Ammonium sulphate ..	134	803	(a)	21,314	6,383	(a)
Cyanamide ..	143	167	(a)	61	194	—
Liquid ammonia ..	41	37	(a)	73	58	(a)
Anhydrous ammonia ..	112	234	(a)	412	201	(a)

(a) Information not available.

## IMPORTS OF NITROGEN COMPOUNDS (cont.)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Chile—</b>						
Ammonium chloride ..	1,918	6,184	2,258	4,986	4,634	(a)
Ammonium sulphate ..						
Ammonium nitrate ..						
Liquid ammonia ..						
Anhydrous ammonia ..						
<b>Colombia—</b>						
Nitrate of potash ..	(a)	158	289	(a)	(a)	(a)
Nitrate of soda ..		2,313	1,633	(a)	(a)	(a)
Ammonium chloride ..		(a)	(a)	(a)	(a)	(a)
Ammonium sulphate ..		(a)	(a)	(a)	(a)	(a)
<b>Peru—</b>						
Nitrate of potash ..	(a)	—	14	53	21	(a)
Nitrate of soda ..	(b) 31,025	10,288	7,383	8,456	9,648	(a)
Liquid ammonia ..	116	123	26	172	40	(a)
Anhydrous ammonia ..	(a)	(a)	35	183	105	(a)
Other nitrogen fertilizers	(a)	2,193	5,687	13,937	15,354	(a)
<b>Uruguay—</b>						
Nitrate of potash ..	43	106	41	9	(a)	(a)
Nitrate of soda ..	262	708	330	409	(a)	(a)
Ammonium sulphate ..	64	314	392	900	(a)	(a)
Liquid ammonia ..	87	149	168	(a)	(a)	(a)
<b>Venezuela—</b>						
Nitrate of potash ..	427	224	82	88	(a)	(a)
Nitrate of soda ..	347	259	448	400	(a)	(a)
Ammonium sulphate ..	136	676	1,786	206	(a)	(a)
Liquid ammonia ..	76	70	(a)	(a)	(a)	(a)
<b>China—</b>						
Nitrate of potash ..	28	(a)	(a)	(a)	(a)	(a)
Nitrate of soda ..	11,406	(a)	(a)	(a)	(a)	(a)
Ammonium sulphate ..	41,875	(a)	(a)	(a)	(a)	(a)
<b>Formosa—</b>						
Ammonium sulphate ..	(a)	(a)	(a)	74,950	80,540	(a)
<b>Israel—</b>						
Nitrate of soda ..	(a)	148	15	(a)	(a)	(a)
Ammonium sulphate ..		7,223	14,409	(a)	(a)	(a)
Nitrogen fertilizers ..		3,745	3,943	(a)	(a)	(a)
Anhydrous ammonia ..		33	30	(a)	(a)	(a)
<b>Japan (total imports)—</b>						
Nitrate of soda ..	(a)	(a)	—	6,854	5,572	6,658
Ammonium sulphate ..	47,215	(a)	200,643	—	—	—
Ammonium nitrate ..	276,051	195,097	73,342	—	—	—
<b>Korea (c)—</b>						
Nitrate of soda ..	(a)	(a)	(a)	(a)	12,360	—
Ammonium sulphate ..					223,345	501,945
Ammonium nitrate ..					221	—
Ammonium chloride ..					315	—
Lime ammonium nitrate					—	29,968
Cyanamide ..	217	12,474				
<b>Turkey—</b>						
Nitrate of soda ..	1,372	690	69	1,240	2,929	4,649
Ammonium chloride ..	270	304	207	406	569	(a)
Ammonium sulphate ..	3,961	—	—	1	2	(a)
Ammonium nitrate ..	150	147	169	532	—	(a)
Di-ammonium phosphate ..	906	—	—	—	—	(a)
Other nitrogen fertilizers	—	—	—	—	—	(a)
Liquid ammonia ..	33	25	111	49	34	(a)

(a) Information not available.

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

(c) Years ended July 31 of that stated.

# PETROLEUM AND ALLIED PRODUCTS

## PRODUCTION OF CRUDE PETROLEUM\*

(Long tons)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Crude petroleum .. .. .	43,600	45,600	45,700	45,200	55,500	54,800
Shale oil .. .. .	109,600	112,500	111,600	104,600	106,500	104,100
Union of South Africa—						
( <i>Shale oil</i> ) (c) .. .. .	39,016	37,581	39,569	37,514	32,997	38,403
Canada (b) .. .. .	1,496,040	2,636,443	3,626,245	6,027,283	7,751,560	10,292,599
Barbados .. .. .	11	24	—	—	—	—
Trinidad (b) .. .. .	2,872,493	2,945,246	2,947,489	2,977,531	3,036,811	3,192,275
Bahrain Islands (e) .. .. .	1,463,454	1,473,096	1,476,663	1,474,742	1,475,104	1,482,967
British Borneo—						
Brunei .. .. .	2,645,412	3,337,027	4,051,010	4,891,784	4,993,687	4,803,603
Sarawak .. .. .	46,597	56,752	56,601	51,702	49,944	49,057
India (b) .. .. .	253,313	257,572	251,804	260,400	258,752	267,245
Pakistan .. .. .	82,018	134,457	183,000	193,985	226,200	251,700
Kuwait (e) .. .. .	6,291,577	12,183,669	17,018,666	27,783,170	37,042,122	42,529,558
Qatar (e) .. .. .	—	—	1,551,853	2,332,214	3,245,343	3,997,926
Australia .. .. .	120	140	160	270	—	—
New Zealand .. .. .	339	965	948	758	1,236	1,135
<b>TOTAL .. .. .</b>	<b>15,343,000</b>	<b>23,221,000</b>	<b>31,361,000</b>	<b>46,180,000</b>	<b>58,270,000</b>	<b>67,070,000</b>
<b>FOREIGN COUNTRIES</b>						
Albania .. .. .	240,000	300,000	345,000	300,000	100,000	220,000
Austria (d) .. .. .	960,000	1,250,000	1,500,000	2,100,000	2,982,100	3,100,000
Czechoslovakia (d) .. .. .	48,000	60,000	80,000	95,000	178,000	192,000
France .. .. .	50,908	56,632	125,097	289,000	343,700	361,400
Germany (Federal) .. .. .	625,207	828,284	1,100,949	1,345,100	1,727,705	2,154,135
Hungary (d) .. .. .	476,000	500,000	502,000	500,000	512,000	835,000
Italy .. .. .	9,079	9,072	8,050	17,367	62,508	84,135
Netherlands .. .. .	487,715	611,131	693,708	703,024	703,712	807,000
Poland (d) .. .. .	133,000	150,000	175,000	180,000	230,000	240,000
Roumania (d) (f) .. .. .	4,200,000	4,600,000	5,200,000	6,400,000	8,300,000	9,200,000
U.S.S.R. (d) .. .. .	28,900,000	33,000,000	37,200,000	41,600,000	46,600,000	51,200,000
Yugoslavia .. .. .	35,922	62,241	108,600	145,793	149,144	169,358
Algeria .. .. .	108	267	3,390	8,040	45,298	88,332
Egypt .. .. .	1,860,736	2,209,287	2,305,925	2,295,343	2,315,023	2,314,111
Morocco (French) .. .. .	12,715	17,203	38,695	74,472	99,431	100,990
Cuba .. .. .	36,000	20,000	15,000	13,000	15,000	21,000
Mexico (b) .. .. .	8,243,549	8,746,100	10,156,056	10,761,000	10,854,700	10,046,000
United States (b) .. .. .	276,737,671	252,321,000	270,352,600	307,905,600	313,676,200	323,287,400
Argentina .. .. .	3,265,272	3,175,900	3,371,000	3,449,000	3,514,000	3,931,000
Bolivia .. .. .	69,888	89,173	82,000	66,000	68,000	60,300
Brazil .. .. .	18,450	14,060	37,823	88,815	96,510	119,340
Chile .. .. .	—	16,000	79,000	95,000	116,700	161,480
Colombia (b) .. .. .	3,352,300	4,186,200	4,797,091	5,520,986	5,438,193	5,553,586
Ecuador .. .. .	341,879	341,717	350,959	361,000	378,590	395,250

\*Excluding Natural Gasoline. See page 217.

(a) Information not available.

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

(c) Years ended June 25 of that stated.

(d) Estimated.

(e) British Protected State.

(f) Revised.

**PRODUCTION OF CRUDE PETROLEUM (cont.)**

Producing Country	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b> (cont.)						
Peru .. .. .	1,842,594	1,936,637	2,018,183	2,104,993	2,306,290	2,262,000
Venezuela .. .. .	70,503,375	69,343,100	78,611,400	89,456,000	94,925,000	92,623,000
Burma .. .. .	44,528	35,118	66,902	100,414	100,470	127,765
China (b) .. .. .	80,000	100,000	135,000	109,000	100,000	115,000
Formosa .. .. .	3,000	3,000	3,000	2,830	2,400	2,350
Indonesia .. .. .	4,257,638	5,839,472	6,312,315	7,327,145	8,388,780	10,063,826
Iran .. .. .	24,871,058	26,807,000	31,750,000	c 16,176,600	b 1,250,000	b 1,140,000
Iraq .. .. .	3,426,482	4,116,267	6,544,913	8,548,800	18,553,290	27,740,366
Japan .. .. .	157,000	191,400	289,000	327,000	298,000	294,000
Netherlands New Guinea (d) .. .. .	(a)	(a)	(a)	228,000	239,000	237,000
Saudi Arabia .. .. .	18,751,270	22,820,783	26,196,852	36,608,585	39,870,805	40,887,754
Turkey .. .. .	2,000	14,522	16,700	18,800	21,354	26,126
<b>TOTAL .. .. .</b>	<b>454,640,000</b>	<b>444,400,000</b>	<b>490,500,000</b>	<b>545,320,000</b>	<b>564,560,000</b>	<b>590,160,000</b>
<b>WORLD'S TOTAL .. .. .</b>	<b>469,980,000</b>	<b>467,620,000</b>	<b>521,860,000</b>	<b>591,500,000</b>	<b>622,830,000</b>	<b>657,230,000</b>

- (a) Information not available.
- (b) Estimated.
- (c) Anglo-Iranian Oil Co. only.
- (d) Exports.

**PRODUCTION OF NATURAL GASOLINE**

(Long tons)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Canada .. .. .	53,256	54,255	50,725	58,526	65,895	68,451
Trinidad (b) .. .. .	20,700	19,260	19,485	22,845	23,239	30,017
<b>FOREIGN COUNTRIES</b>						
Egypt .. .. .	(a)	(a)	11,115	12,520	9,408	(a)
Mexico .. .. .	(a)	(a)	158,000	(a)	158,500	(a)
United States .. .. .	16,837,000	17,925,000	20,881,000	23,496,000	25,649,000	27,759,000
Argentina .. .. .	9,340	8,301	(a)	(a)	(a)	(a)
Colombia .. .. .	(a)	(a)	(a)	(a)	90,646	91,615
Ecuador .. .. .	(a)	(a)	(a)	(a)	15,240	(a)
Peru .. .. .	110,675	110,884	109,696	123,278	116,471	(a)
Venezuela .. .. .	74,100	181,800	215,300	256,900	(a)	(a)
Formosa .. .. .	(a)	(a)	(a)	796	675	707
<b>WORLD'S TOTAL (c) .. .. .</b>	<b>17,400,000</b>	<b>18,600,000</b>	<b>21,600,000</b>	<b>24,300,000</b>	<b>26,400,000</b>	<b>28,600,000</b>

- (a) Information not available.
- (b) Incomplete as about half the production is blended with crude petroleum at field storage.
- (c) Totals refer only to those countries reported above.

PRODUCTION OF NATURAL GAS\*

(Million cubic feet)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Union of South Africa ..	11	12	12	13	12	11
Barbados .. .. .	57	69	74	106	154	151
Canada .. .. .	58,603	60,457	67,822	79,461	88,686	99,628
Trinidad .. .. .	30,697	32,287	32,312	31,725	31,503	34,597
Brunei (c) .. .. .	1,257	1,665	1,829	1,752	1,780	2,076
<b>FOREIGN COUNTRIES</b>						
Austria .. .. .	1,833	2,098	1,769	1,716	1,725	1,962
France .. .. .	6,170	8,059	8,690	9,969	9,408	8,722
Germany (Federal) ..	2,377	1,922	2,386	2,715	3,399	3,657
Hungary .. .. .	4,136	4,414	(a)	(a)	(a)	(a)
Italy .. .. .	4,126	8,808	17,997	34,124	50,956	81,150
Poland .. .. .	(b) 9,147	(a)	(a)	(a)	(a)	(a)
Roumania .. .. .	(a)	77,693	(a)	(a)	(a)	(a)
Yugoslavia .. .. .	293	294	511	474	489	2,581
Morocco (French) ..	—	—	—	—	13	(a)
Mexico .. .. .	37,361	41,954	59,244	83,950	93,273	94,432
United States .. .. .	5,148,020	5,419,736	6,282,060	7,457,359	8,013,457	8,425,000
Argentina .. .. .	21,371	23,793	(a)	(a)	(a)	(a)
Ecuador .. .. .	3,750	(a)	(a)	(a)	(a)	(a)
Peru .. .. .	(a)	(a)	(a)	28,885	(a)	(a)
Uruguay .. .. .	16	20	27	36	(a)	(a)
Venezuela (d) .. .. .	470,349	496,733	555,766	674,973	740,708	730,212
Formosa .. .. .	(a)	(a)	(a)	1,065	982	1,092
Indonesia .. .. .	13,031	17,777	22,088	27,930	38,007	49,356
Japan .. .. .	1,810	2,051	2,441	2,924	3,216	3,886
Saudi Arabia .. .. .	(a)	20	49	43	46	48

NOTE.—This table is necessarily incomplete owing to the fact that official statistics of production of natural gas are not published by all countries.

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

(a) Information not available.

(b) Estimated.

(c) Total production amounted to 19,837 in 1948; 20,483 in 1949 and 26,615 in 1950.

(d) Total production.

PRODUCTION OF ASPHALT ROCK

(Long tons)

Producing Country	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
France .. .. .	44,008	52,834	82,270	70,501	71,915	88,203
Germany .. .. .	(a)	(a)	97,478	114,302	111,952	127,157
Italy .. .. .	243,487	235,577	251,505	264,670	216,742	235,418
Angola .. .. .	11,958	14,764	7,301	17,482	21,281	16,967
Belgian Congo .. .. .	(a)	(a)	(a)	128	171	734
United States (sales) ..	967,861	1,027,617	1,057,746	1,230,745	1,402,409	1,286,200
Philippine Republic ..	3,050	44,500	51,983	29,842	27,923	9,793
Syria .. .. .	16,258	16,925	14,458	14,115	9,874	12,812

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

(a) Information not available.



**PRODUCTION OF NATURAL ASPHALT, ETC.**

(Long tons)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Trinidad .. ..	128,993	145,160	132,846	154,705	170,595	143,342
<b>FOREIGN COUNTRIES</b>						
Spain .. ..	4,709	7,982	10,455	7,594	6,731	(a)
Angola (Libollite) ..	200	(a)	(a)	(a)	(a)	(a)
French West Africa—						
Bitumen .. ..	—	—	—	—	200	—
Mexico (exports) ..	—	4	6	25	—	—
United States (sales)—						
Gilsonite .. ..	46,537	45,948	59,095	58,501	54,232	54,022
Wurtzilite .. ..	—	—	—	—	—	—
Argentina—						
Asphaltite .. ..	81,000	77,500	46,100	14,000	11,600	11,000

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.

**PRODUCTION OF OIL-SHALE**

(Long tons)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Great Britain .. ..	1,380,719	1,402,694	1,452,287	1,411,707	1,401,191	1,385,700
Union of South Africa (b)	205,318	203,867	212,613	196,596	191,583	276,296
Australia .. ..	136,352	120,956	98,487	78,564	21,661	—
<b>FOREIGN COUNTRIES</b>						
Austria .. ..	1,122	894	628	985	753	942
France .. ..	436,465	487,249	551,035	372,604	338,040	304,000
Italy .. ..	5	(a)	(a)	(a)	(a)	(a)
Spain .. ..	74,465	73,321	49,951	52,285	156,111	192,180
Sweden (c) .. ..	1,376,567	1,235,787	1,532,970	1,463,447	1,630,271	(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	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
<b>United Kingdom (d)—</b>						
Aviation and motor spirit	617,900	989,800	1,642,600	2,884,900	4,851,800	6,243,300
Other spirit .. .. .	95,000	107,900	130,200	217,400	220,400	47,500
Kerosine .. .. .	120,900	130,400	161,400	233,800	556,000	553,300
Gas oil and diesel oil ..	887,600	1,207,700	1,913,700	3,096,000	3,791,700	4,303,900
Fuel oil .. .. .	1,358,100	2,316,900	3,772,500	7,834,400	10,294,800	10,747,100
Fuel used in refineries	399,100	491,100	595,800	771,400	1,162,100	1,495,000
Lubricating oil .. .. .	362,900	372,200	422,000	409,500	368,500	365,900
Bitumen .. .. .	526,700	555,700	637,200	750,300	715,800	715,900
Paraffin wax .. .. .	14,100	14,200	15,600	15,300	14,738	15,200
<b>Canada (b)—</b>						
Aviation spirit .. .. .	45,815	45,153	40,656	45,407	52,283	(a)
Motor spirit .. .. .	3,950,359	4,676,207	5,204,227	6,000,013	6,644,460	7,415,496
Naphtha .. .. .	94,877	118,989	118,914	122,334	103,996	106,891
Kerosine .. .. .	463,897	510,215	713,957	1,013,040	931,165	1,057,919
do. Power .. .. .	159,837	137,774	112,228	62,225	47,571	52,177
Aviation turbine fuel ..	722,935	1,156,639	1,555,114	29,475	48,188	146,297
Gas oil, etc. .. .. .				1,973,428	2,093,566	2,503,490
Diesel oil .. .. .	757,401	814,871	942,813	1,026,889	1,327,781	1,466,724
Fuel oil .. .. .	2,867,406	2,895,424	3,129,582	3,446,737	3,986,520	4,376,876
do. (used in refineries)	511,571	545,238	603,312	689,675	712,762	(a)
Lubricating oil .. .. .	238,582	230,179	233,342	266,451	237,287	229,633
Grease .. .. .	11,406	13,560	15,013	15,214	14,152	14,906
Coke .. .. .	78,070	104,794	109,099	147,044	181,596	(a)
Asphalt .. .. .	633,004	627,710	662,698	781,991	859,348	888,795
<b>Trinidad—</b>						
Aviation spirit .. .. .	78,902	129,479	174,152	191,220	190,417	189,619
Motor spirit .. .. .	616,499	580,529	569,187	630,404	650,819	804,460
White spirit .. .. .	654	295	338	314	55	302
Kerosine .. .. .	59,354	63,574	60,317	84,552	109,614	97,730
do. Power .. .. .	167,534	195,042	163,891	347,512	473,404	411,186
Gas and diesel oil .. .. .	561,193	581,609	599,359	690,670	722,235	732,559
Fuel oil .. .. .	2,078,369	2,414,576	2,359,050	2,747,178	2,551,408	2,529,705
Lubricating oil and greases .. .. .	352	345	367	356	395	217
Bitumen .. .. .	61,098	54,847	66,361	71,725	98,219	87,971
Other finished products	17,319	24,906	37,897	45,961	73,477	103,724
<b>Bahrain Islands (c)—</b>						
Motor spirit .. .. .	1,458,000	1,598,000	1,771,000	2,025,304	2,203,606	2,067,200
Kerosine .. .. .	665,000	609,000	710,000	833,564	1,121,647	1,081,300
Gas oil and diesel oil ..	1,253,000	1,169,000	1,334,000	1,303,242	1,370,455	1,580,200
Fuel oil .. .. .	3,334,000	3,356,000	2,983,000	3,834,619	3,967,478	4,270,300
Bitumen .. .. .	(a)	45,000	68,000	72,477	93,879	114,300
<b>India—</b>						
Motor and other spirits	59,000	57,000	52,300	53,100	47,100	50,600
Kerosine .. .. .	52,000	60,000	63,600	64,700	63,600	70,500
Gas and diesel oils .. ..	51,000	41,000	42,600	43,200	44,400	46,800
Fuel oil .. .. .	2,000	15,000	17,100	18,600	23,200	17,000
Lubricating oils .. .. .	18,000	20,000	13,400	23,300	16,000	15,900
Paraffin wax .. .. .	35,000	32,000	26,700	40,200	35,200	39,700
Other refined products	5,000	4,000	3,000			

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

(a) Information not available.

(b) Including the amounts used at the refineries except in 1953. In the case of Fuel oil these amounts are shown separately.

(c) British Protected State.

(d) Including distillation plants.

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

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
<i>(cont.)</i>						
<b>Kuwait (c)—</b>						
Motor spirit .. ..	—	560	12,800	14,400	19,400	33,500
Kerosine .. ..	—	111	5,000	5,600	8,200	10,400
Gas and diesel oils .. ..	—	17,763	169,900	180,800	210,000	273,200
Fuel oil .. ..	—	73,428	665,900	752,500	814,800	863,300
<b>Pakistan—</b>						
Motor spirit .. ..	8,900	19,800	35,600	36,580	49,800	55,400
Kerosine .. ..	1,545	3,580	7,500	6,670	8,300	8,000
Diesel oil .. ..	5,240	5,180	8,770	10,700	21,400	(a)
Fuel oil .. ..	27,175	73,300	102,100	108,300	86,500	(a)
Lubricating oil .. ..	536	668	2,176	1,300	17,000	(a)
<b>Sarawak—</b>						
Motor spirit .. ..	264,097	317,980	389,857	429,067	474,935	523,770
Kerosine, power .. ..	299	317	317	252	312	303
Gas, diesel and fuel oils	1,388,663	1,393,513	1,464,440	1,505,536	1,612,462	1,722,783
<b>Australia—</b>						
Motor spirit .. ..	206,388	256,000	254,406	299,800	313,700	353,700
Kerosine .. ..	11,998	10,500	1,098	(a)	(a)	(a)
Gas oil .. ..	23,998	11,000	91,525	37,000	33,945	40,698
Diesel oil .. ..	1,950	73,000	34,201	115,000	108,075	123,928
Fuel oil .. ..	139,971	183,000	238,686	322,000	358,983	355,917
Lubricating oil .. ..	(b) 23,920	(b) 23,302	23,850	33,000	25,609	16,042
Grease (b) .. ..	9,589	9,589	5,103	(a)	(a)	(a)
Bitumen .. ..	32,424	52,000	60,255	79,000	93,703	104,470
<b>FOREIGN COUNTRIES</b>						
<b>Belgium—</b>						
Motor spirit .. ..	27,031	59,017	72,511	159,905	527,232	679,468
Kerosine .. ..	10,357	9,830	8,950	11,754	61,320	81,804
Fuel oil, etc. .. ..	148,468	203,244	236,180	577,863	1,739,352	2,097,286
Lubricating oil .. ..	6,058	6,673	5,961	4,667	4,237	4,902
Asphalt, etc. .. ..	66,906	53,721	79,161	79,880	83,753	86,829
<b>Denmark—</b>						
Gas oil .. ..	7,281	10,271	9,632	6,097	6,462	5,800
Diesel oil .. ..						
Lubricating oil .. ..	9,256	7,578	10,925	12,078	8,010	(a)
Grease .. ..	1,171	941	1,389	1,384	981	(a)
Asphalt .. ..	14,696	23,592	21,962	19,697	20,202	(a)
<b>France—</b>						
Motor spirit .. ..	1,685,813	2,422,000	3,000,000	3,796,000	4,581,300	5,014,400
Kerosine and white spirit	267,229	261,000	280,000	384,000	403,900	349,500
Gas oil .. ..	1,133,468	1,740,000	2,297,000	2,767,000	3,166,400	3,020,500
Fuel oil .. ..	3,839,844	5,364,000	6,623,000	8,918,000	10,464,000	10,603,700
Lubricating oil .. ..	213,949	200,000	288,000	340,000	341,300	380,000
Road oil and coke	467,200	607,000	810,000	(a) 10,358	1,057,000	1,132,000
Paraffin wax .. ..						
<b>Germany (Federal) —</b>						
Aviation spirit .. ..	2,857	11,896	39,018	64,846	87,426	142,001
Motor spirit .. ..	96,756	407,326	957,227	1,495,150	1,692,447	2,035,348
Kerosine .. ..	54,347	71,434	83,569	50,547	48,193	51,071
Diesel oil .. ..	88,207	296,521	552,450	1,186,496	1,402,142	1,764,218
Fuel oil .. ..	54,728	166,092	459,234	750,444	830,969	942,538
Lubricating oil .. ..	196,586	300,309	540,600	366,981	378,627	385,355
Grease .. ..	(a)	2,726	4,387	4,118	5,170	6,534
Paraffin wax .. ..	(a)	15,506	12,016	25,751	23,686	22,347
Coke .. ..	(a)	30,977	32,121	37,066	52,312	77,515
Bitumen .. ..	123,153	232,525	382,449	407,108	452,741	466,305

(a) Information not available.

(c) British Protected State.

(b) Years ended June 30 of year stated.

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

Producing Country	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Italy—</b>						
Motor spirit .. ..	407,654	696,880	968,598	1,337,226	1,740,160	2,249,089
White spirit .. ..	3,426	8,160	10,679	12,620	14,428	21,250
Kerosine .. ..	185,379	225,348	294,415	462,164	606,800	805,896
Gas oil .. ..	505,836	760,557	1,023,248	1,388,694	1,784,318	2,438,943
Fuel oil and diesel oil ..	884,628	1,676,787	2,389,993	3,268,603	4,424,808	5,703,842
Lubricating oil .. ..	26,264	50,222	56,840	96,693	64,555	68,879
Coke .. ..	23,137	19,688	7,790	4,527	2,180	122
Bitumen .. ..	64,282	134,367	177,651	199,239	283,196	306,408
Other products .. ..	9,843	16,494	26,362	43,656	103,980	168,254
<b>Netherlands—</b>						
Motor spirit .. ..	500,433	678,000	1,284,000	1,615,100	1,935,000	2,129,000
Kerosine .. ..	763	(a)	78,000	189,000	236,000	496,000
Diesel oil .. ..	186,829	513,000	968,000	1,409,000	1,552,000	1,831,000
Residual fuel oil .. ..	598,640	1,261,000	2,716,000	2,712,000	2,817,000	3,516,000
Lubricating oil .. ..	1,709	1,400	20,000	34,000	27,600	44,000
Coke .. ..	111,002	(a)	(a)	(a)	(a)	(a)
Asphalt .. ..	134,861	(a)	(a)	241,000	258,000	192,000
<b>Portugal—</b>						
Motor spirit .. ..	63,220	67,506	67,500	68,400	84,900	19,600
Kerosine .. ..	23,845	46,346	54,600	62,100	67,100	15,700
Gas and diesel oil .. ..	40,011	40,504	53,200	80,100	115,300	25,600
Fuel oil .. ..	112,972	119,581	102,400	141,200	197,200	47,000
<b>Spain—</b>						
Motor spirit .. ..	(a)	(a)	64,992	86,089	197,089	309,000
Kerosine .. ..	(a)	(a)	18,446	18,635	17,485	38,000
Gas oil .. ..	(a)	(a)	67,244	88,571	222,427	275,000
Fuel oil .. ..	(a)	(a)	112,224	156,770	408,079	749,000
Paraffin wax .. ..	(a)	(a)	93	107	95	(a)
<b>Sweden—</b>						
Motor spirit .. ..	51,308	68,631	139,685	147,579	190,988	207,632
White spirit .. ..	4,254	5,511	5,298	3,528	(a)	(a)
Kerosine .. ..	20,233	29,074	36,719	44,386	61,046	109,310
Fuel oil, etc. .. ..	365,065	304,544	695,960	770,062	982,570	1,202,533
Lubricating oil .. ..	16,055	18,735	20,444	21,926	16,248	16,358
Asphalt .. ..	75,930	69,276	89,578	74,520	79,587	96,301
<b>Yugoslavia—</b>						
Motor spirit .. ..	(a)	(a)	(a)	84,600	91,500	107,300
Kerosine .. ..	(a)	(a)	(a)	53,100	32,500	41,300
Gas oil .. ..	(a)	(a)	(a)	118,100	120,000	130,900
Fuel oil .. ..	(a)	(a)	(a)	199,800	184,000	190,000
Lubricating oil .. ..	(a)	(a)	(a)	17,700	22,600	26,600
Bitumen .. ..	(a)	(a)	(a)	19,700	21,700	54,100
Other products .. ..	(a)	(a)	(a)	6,900	14,800	18,700
<b>Canary Islands—</b>						
Motor spirit .. ..	185,000	116,837	187,585	133,000	206,938	194,272
Kerosine .. ..	30,000	15,747	37,287	35,000	60,282	71,483
Gas oil .. ..	140,000	136,238	154,976	117,829	127,713	141,391
Diesel oil .. ..	(a)	(a)	59,309	135,860	181,709	146,834
Fuel oil .. ..	270,000	224,196	319,516	398,235	446,777	462,016
Lubricating oil .. ..	(a)	(a)	6,171	2,120	(a)	8,041
Asphalt .. ..	10,000	21,399	56,462	44,727	46,477	55,000
<b>Egypt—</b>						
Aviation spirit .. ..	(a)	(a)	(a)	(a)	1,102	2,120
Motor spirit .. ..	191,524	209,694	191,247	205,122	172,111	177,241
Kerosine .. ..	97,456	114,190	147,508	207,048	196,207	194,299
Gas oil .. ..	1,313,572	1,600,504	37,866	39,949	32,079	(a)
Diesel oil .. ..			76,303	73,115	69,581	98,157
Fuel oil .. ..			1,602,609	1,574,585	1,645,648	1,638,117
Asphalt .. ..			79,110	88,451	41,600	26,200
<b>Morocco (French)—</b>						
Motor spirit .. ..	873	1,136	2,470	7,397	13,767	9,549
Kerosine .. ..	—	—	3,381	7,743	7,906	12,172
Gas and fuel oils .. ..	8,124	12,196	31,760	58,883	75,776	77,224

(a) Information not available.

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

Producing Country	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Cuba—</b>						
Motor spirit .. ..	65,100	78,300	76,800	93,800	97,100	109,600
Kerosine .. ..	38,200	50,000	64,500	71,300	80,600	84,800
Gas oil and diesel oil ..	59,400	64,900	56,200	69,100	92,800	105,400
Fuel oil .. ..	21,700	25,200	33,200	73,500	55,100	49,900
Lubricating oil .. ..	(a)	(a)	(a)	2,000	1,800	3,400
<b>Mexico—</b>						
Motor spirit .. ..	1,133,000	1,210,000	1,343,112	1,473,478	1,670,441	1,810,290
Kerosine .. ..	534,000	591,000	568,926	697,679	778,705	871,050
Gas oil .. ..	696,000	752,000	713,108	766,833	901,963	825,426
Fuel oil .. ..	3,704,000	4,105,000	3,969,772	4,346,142	4,620,496	5,298,532
Lubricating oil .. ..	38,000	31,000	26,265	35,529	33,614	33,571
Paraffin wax .. ..	11,500	10,600	11,900	10,500	10,700	8,428
Asphalt .. ..	149,000	150,500	126,400	74,100	66,800	90,700
<b>Netherlands West Indies</b>						
<i>(b)—</i>						
Aviation spirit .. ..	3,113,400	2,167,916	2,578,693	} 5,550,400	} 5,485,959	} 5,321,427
Motor spirit .. ..	2,676,540	3,221,279	2,817,375			
Kerosine .. ..	1,279,542	1,277,021	1,413,286	} 2,308,016	} 2,691,340	} 2,205,970
Gas oil .. ..	1,984,314	2,119,636	2,017,960			
Diesel oil .. ..	3,630,522	2,710,883	5,527,281	} 4,031,652	} 4,852,321	} { 1,719,253 3,652,925
Fuel oil .. ..	24,752,339	23,348,490	27,269,736			
Lubricating oil .. ..	237,133	303,969	239,088	271,796	343,987	505,412
Asphalt .. ..	73,379	203,510	341,642	(c) 231,826	(c) 531,393	498,729
<b>United States—</b>						
Aviation spirit .. ..	5,138,000	5,217,000	5,687,000	8,019,000	8,928,000	9,979,000
Motor spirit .. ..	100,488,000	105,065,000	111,688,000	122,635,000	127,677,000	137,957,000
Kerosine .. ..	15,516,000	13,001,000	15,083,000	17,276,000	16,838,000	16,514,000
Distillate fuel oil .. ..	51,655,000	46,069,000	54,126,000	64,559,000	70,608,000	72,215,000
Residual fuel oil .. ..	68,004,600	61,954,200	62,011,000	68,451,000	66,193,000	65,622,000
Lubricating oil .. ..	7,198,200	6,354,500	7,242,900	8,608,000	7,784,000	7,356,000
Paraffin wax .. ..	439,000	401,000	557,750	601,750	541,380	622,250
Coke .. ..	2,588,200	3,028,400	3,075,700	3,388,750	3,236,250	3,858,400
Asphalt .. ..	8,428,400	7,955,700	9,454,500	10,763,300	11,414,300	11,754,700
Road oil .. ..	1,259,000	1,224,600	1,102,200	970,500	1,113,300	1,049,000
<b>Argentina—</b>						
Aviation spirit .. ..	9,148	9,497	5,700	8,300	9,200	8,600
Motor spirit .. ..	1,202,311	1,201,300	1,480,400	1,387,800	1,474,000	1,476,000
Kerosine .. ..	(a)	435,400	578,000	661,700	738,000	804,000
Gas oil .. ..	117,388	167,440	248,700	253,100	322,000	397,000
Diesel oil .. ..	378,722	385,470	501,400	537,900	554,000	604,000
Fuel oil .. ..	1,866,360	1,978,950	2,482,200	2,413,800	2,653,000	3,044,000
Lubricating oil .. ..	100,480	96,260	83,000	98,000	108,000	97,000
<b>Bolivia—</b>						
Motor spirit .. ..	20,223	38,283	37,800	28,100	28,600	30,211
Kerosine .. ..	4,243	5,251	9,200	7,900	9,400	7,517
Diesel oil .. ..	3,527	5,793	5,900	5,200	6,500	8,479
Fuel oil .. ..	12,932	25,741	24,000	10,500	10,100	9,528
<b>Brazil—</b>						
Motor spirit .. ..	14,361	(a)	(a)	31,798	54,400	42,998
Kerosine .. ..	3,910	(a)	(a)	2,994	3,984	376
Diesel oil .. ..	16,174	(a)	(a)	8,087	11,294	5,412
Fuel oil .. ..	19,361	(a)	(a)	27,780	42,700	44,252
Lubricating oil .. ..	382	(a)	(a)	(a)	600	(a)
<b>Colombia—</b>						
Aviation spirit .. ..	7,700	11,539	9,527	9,691	406	457
Motor spirit .. ..	155,000	207,483	221,891	227,941	254,369	251,743
Other spirit .. ..	4,000	(a)	(a)	(a)	8,600	9,000
Kerosine .. ..	30,500	40,903	42,965	46,080	50,775	55,382
do. Power .. ..	1,400	1,523	6,283	6,605	15,655	16,097
Diesel oil .. ..	48,400	65,663	75,624	66,172	88,427	105,130
Fuel oil .. ..	686,000	889,592	894,050	932,060	436,000	1,149,113
Lubricating oil .. ..	6,000	9,687	10,946	7,438	9,556	8,561
Asphalt .. ..	22,000	29,500	24,800	21,735	24,969	32,009

(a) Information not available.

(c) Revised.

(b) Exports.

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

Producing Country	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Ecuador—</b>						
Motor spirit .. ..	51,020	59,030	62,797	65,510	66,970	67,460
Kerosine .. ..	11,900	13,890	15,515	16,750	18,106	21,040
Gas and diesel oils .. ..	34,500	36,970	33,100	32,340	39,740	45,130
Residual fuel oil .. ..	81,200	97,400	100,743	108,300	107,351	86,950
Lubricating oil .. ..	(a)	(a)	600	—	(a)	(a)
<b>Peru—</b>						
Motor spirit .. ..	456,418	453,273	441,874	491,126	(b) 488,396	601,300
Kerosine .. ..	114,154	138,025	150,980	189,627	206,539	236,600
Diesel oil .. ..	160,953	188,723	189,979	214,702	217,768	219,800
Fuel oil .. ..	817,901	820,130	789,270	845,939	856,604	844,800
Lubricating oil .. ..	9,761	9,556	10,647	9,932	10,124	9,400
Coke .. ..	289	2	15	15	11	(a)
Asphalt .. ..	9,747	13,318	11,283	21,575	29,104	(a)
<b>Uruguay—</b>						
Motor spirit .. ..	140,316	118,632	147,831	172,686	193,164	225,413
Kerosine .. ..	87,807	92,492	104,699	118,915	123,159	134,581
Gas oil .. ..	42,870	44,368	51,813	55,140	76,716	88,702
Fuel oil .. ..	410,998	411,879	398,495	482,686	577,563	643,201
<b>Venezuela—</b>						
Motor spirit .. ..	463,694	703,166	1,641,826	2,119,639	2,218,105	2,572,199
Kerosine .. ..	88,957	348,147	327,482	448,032	539,283	594,874
Gas oil .. ..	7,900	240,300	767,700	890,443	909,506	812,041
Diesel oil .. ..	926,000	946,900	1,612,100	2,471,689	2,810,850	3,148,167
Fuel oil .. ..	4,547,834	4,999,954	7,471,212	9,125,781	9,848,905	12,489,297
Lubricating oil .. ..	(a)	(a)	(a)	(a)	124,710	159,394
Asphalt .. ..	38,000	46,000	105,000	147,000	164,000	139,000
<b>Burma—</b>						
Motor spirit .. ..	8,756	7,980	15,998	22,378	18,110	26,077
Kerosine .. ..	5,168	5,309	11,328	18,000	21,374	22,908
Diesel oil .. ..	4,742	5,236	10,879	22,451	23,541	27,902
Fuel oil .. ..	18,573	13,330	22,637	31,313	29,044	35,038
<b>Formosa—</b>						
Motor spirit .. ..	(a)	(a)	(a)	56,845	57,926	78,573
Kerosine .. ..	(a)	(a)	(a)	25,503	32,131	28,050
Diesel oil .. ..	(a)	(a)	(a)	49,432	38,778	37,994
Fuel oil .. ..	(a)	(a)	(a)	121,701	104,121	120,948
Asphalt .. ..	(a)	(a)	(a)	3,123	11,356	16,696
<b>Indonesia—</b>						
Aviation spirit .. ..	(a)	121,540	153,460	228,245	369,318	378,474
Motor spirit .. ..	(a)	1,867,998	1,967,464	2,139,537	2,189,616	2,180,468
Kerosine .. ..	(a)	779,454	865,291	1,015,120	1,123,327	1,236,334
Fuel oil, solar oil and diesel oil .. ..	(a)	3,427,331	3,981,656	4,623,965	5,166,777	5,609,913
Paraffin wax .. ..	(a)	40,851	43,745	90,599	99,753	110,019
Asphalt .. ..	(a)	26,201	27,226	27,033	28,813	29,657
<b>Iran—</b>						
Motor spirit, etc. .. ..	3,822,800	4,202,000	4,324,800	c 2,169,900	—	—
Kerosine, etc. .. ..	1,867,500	2,210,100	2,337,700	c 1,240,300	—	—
Gas, diesel and fuel oils	13,778,200	15,310,800	16,147,400	c 8,116,900	—	—
Other products .. ..	223,400	221,100	242,900	c 112,800	—	—
<b>Iraq—</b>						
Motor spirit .. ..	69,600	66,000	68,600	78,900	81,100	81,400
Kerosine .. ..	67,100	73,500	79,500	86,500	89,100	99,300
Gas, diesel and fuel oils	224,300	217,000	229,400	257,600	288,800	301,200
<b>Israel—</b>						
Motor spirit .. ..	159,000	—	30,300	107,100	146,400	149,600
Kerosine .. ..	86,000	—	26,500	96,600	106,800	90,800
Gas oil .. ..	169,000	—	38,900	118,600	125,400	149,800
Fuel oil .. ..	500,000	—	87,600	366,500	376,100	343,100
Bitumen .. ..	—	—	2,400	24,000	8,900	16,000

(a) Information not available.

(b) Revised.

(c) Anglo-Iranian Oil Co. only.

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

Producing Country	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Japan—</b>						
Motor spirit .. ..	14,687	18,686	292,678	574,927	1,001,504	1,230,898
Kerosine .. ..	23,373	20,791	60,915	99,416	88,944	287,017
Gas oil .. ..	8,153	12,731	95,811	259,757	358,380	420,474
Diesel oil .. ..	22,561	20,736	188,966	368,713	496,831	405,277
Fuel oil .. ..	25,913	25,418	537,829	848,115	1,606,150	2,221,498
Lubricating oils ..	35,214	38,983	138,669	270,886	204,672	279,154
Paraffin wax .. ..	(a)	(a)	(a)	8,350	11,325	18,207
Pitch .. ..	(a)	(a)	(a)	2,223	6,692	8,463
Asphalt .. ..	(a)	(a)	(a)	107,516	95,290	132,047
<b>Lebanon—</b>						
Motor spirit .. ..	52,031	60,611	93,860	115,655	112,212	109,756
Kerosine .. ..	27,481	32,941	60,249	61,862	64,961	62,460
Gas oil .. ..	35,818	44,632	84,249	98,691	90,982	86,841
Fuel oil .. ..	136,404	144,255	234,844	262,042	116,559	218,830
<b>Saudi Arabia—</b>						
Motor spirit .. ..	1,242,900	1,252,555	940,129	1,393,748	1,407,409	1,523,734
Kerosine .. ..	351,400	319,948	375,101	595,041	635,883	965,253
Diesel oil .. ..	1,448,400	1,632,503	1,441,274	3,334,787	2,191,605	2,347,067
Fuel oil .. ..	2,794,200	2,686,132	2,032,083	3,557,106	3,757,553	4,815,577
Asphalt .. ..	—	—	4,789	27,970	32,204	42,547

(a) Information not available.

**EXPORTS OF PETROLEUM AND ALLIED PRODUCTS\***

*(Domestic Produce)*

*(Long tons)*

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
<b>United Kingdom—</b>						
Aviation spirit (bunkers) (b) ..	46,309	54,020	65,115	73,577	81,452	91,208
Motor spirit .. ..	20,607	53,710	97,892	115,525	356,601	1,009,595
Other spirit .. ..	2,042	4,021	11,929	38,667	19,424	59,326
Kerosine .. ..	2,089	17,183	28,496	38,343	109,572	150,534
Gas oil .. ..	16,137	33,945	73,728	147,700	356,563	942,630
Diesel oil .. ..	1	20,540	144,536	309,007	561,193	546,503
Fuel oil .. ..	22,832	146,163	609,167	2,354,980	3,709,988	4,315,616
do. (bunkers) (b) ..	1,983,254	2,031,746	2,228,369	2,964,318	3,451,551	3,633,975
Lubricating oil .. ..	114,574	123,264	126,742	175,500	192,546	186,161
Other refined oils .. ..	3,297	2,485	5,319	12,262	9,592	35,820
Mineral jelly .. ..	112	218	267	326	257	207
Paraffin wax .. ..	2,655	1,654	2,783	709	380	2,359
<b>Malta—</b>						
Aviation spirit (bunkers) (b) ..	10,683	12,528	14,664	3,852	27,857	29,489
Aviation turbine fuel (bunkers) (b) ..	103	464	6,624	44	7,708	7,640
Gas oil (bunkers) (b) ..	980	2,712	2,000	2,138	2,427	3,219
Fuel oil (bunkers) (b) ..	11,236	8,919	9,530	9,559	10,916	19,346
<b>Anglo-Egyptian Sudan—</b>						
Aviation spirit (bunkers) (b) .. ..	5,529	8,146	6,862	6,762	9,695	(a)
<b>Gold Coast (b)—</b>						
Aviation spirit (bunkers) .. ..	2,557	2,576	1,923	2,108	2,194	1,399
Motor spirit (bunkers) .. ..	101	1	3	1	—	—
Gas oil (bunkers) .. ..	733	891	1,207	1,201	23,092	18,196
Fuel oil (bunkers) .. ..	20,084	14,298	28,031	28,059	9,939	2,854
<b>Kenya (d)—</b>						
Bunkers (b)—						
Aviation spirit .. ..	5,853	4,184	5,199	7,129	6,422	258
Motor spirit .. ..	341	16	11	19	28	13
Fuel oil .. ..	128,299	142,754	135,478	121,764	142,437	120,639
Lubricating oil .. ..	243	227	258	289	297	304
<b>Mauritius (b)—</b>						
Aviation spirit (bunkers) .. ..	(a)	(a)	262	501	615	917
Fuel oils (bunkers) .. ..	(a)	836	3,975	4,642	4,466	8,413
<b>Nigeria (bunkers)—</b>						
Diesel oil (b) .. ..	44	91	3	1,064	35	14
Gas oil (b) .. ..	241	2,410	743	1,310	2,375	1,734
Fuel oil (b) .. ..	2,945	10,991	3,115	8,594	6,782	6,753
<b>Sierra Leone (bunkers)—</b>						
Aviation spirit (b) .. ..	—	—	248	—	—	—
Fuel oil (b) .. ..	—	885	412	66	—	—
<b>Tanganyika (b)—</b>						
Aviation spirit (bunkers) .. ..	1,376	610	897	503	763	22
Fuel oil (bunkers) .. ..	19	9	119	668	1,428	1,570
<b>Uganda (b)—</b>						
Aviation spirit (bunkers) .. ..	(c)	1,807	1,568	724	1,604	346
<b>Union of South Africa—</b>						
Bunkers (b)—						
Motor spirit .. ..	4,564	3,994	4,041	4,830	(a)	(a)
Diesel oil .. ..	87,263	115,299	160,061	141,738	(a)	(a)
Fuel oil .. ..	318,661	343,725	370,044	388,118	(a)	(a)
Asphalt and bitumen .. ..	3,618	3,295	2,871	2,337	1,938	(a)

\*Excluding the United Kingdom, the following rates have been used for converting Imperial gallons to long tons: Aviation spirit 315, Motor spirit 305, White spirit 280, Kerosine 275, Gas oil 260, Diesel oil 256, Fuel oil 240, Lubricating oil 250, Crude petroleum 245, Asphalt 220, Road oil 220.

(a) Information not available.

(b) Foreign produce. See imports.

(c) Included with Kenya.

(d) Including Uganda up to 1948 inclusive.



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

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
<i>(cont.)</i>						
Canada (f)—						
Crude petroleum ..	98	—	—	48,826	203,494	358,188
Motor spirit .. ..	28,762	6,621	406	698	105,190	546
Kerosine, etc. .. .	1,222	610	538	22	10	7
Fuel oil .. .. .	264,962	105,273	2,668	897	551	22,975
do. (bunkers) .. .	925,936	943,150	863,645	956,111	1,001,187	(a)
Diesel oil (bunkers) ..	178,223	178,283	187,069	207,396	198,284	(a)
Lubricating oil .. .	3,668	496	255	425	352	103
Other oils .. .. .	3,008	1,673	1,675	277	50	35
Mineral wax .. .. .	14,588	2,278	336	4,732	911	235
Petroleum coke .. .	29,041	19,322	60,985	51,462	50,440	33,380
Newfoundland (e)—						
Fuel oil (bunkers) (c) ..	74,289	(e)	(e)	(e)	(e)	(e)
British Guiana (b)—						
Aviation spirit (bunkers)	333	278	309	371	351	353
British West Indies—						
Bermuda—						
Bunkers (b) (d)—						
Aviation spirit .. ..	11,438	18,425	20,136	23,768	30,394	33,675
Motor spirit .. .. .	281	217	189	—	—	44
Kerosine .. .. .	386	370	337	—	—	450
Fuel oil .. .. .	13,408	3,158	4,022	10,082	13,448	10,743
Diesel oil .. .. .	2,497	5,089	479	742	410	534
Lubricating oil .. .	22	13	4	3	7	468
Jamaica—						
Bunkers (b)—						
Aviation spirit .. ..	(a)	(a)	(a)	(a)	(a)	(a)
Motor spirit .. .. .	4	(a)	(a)	(a)	(a)	(a)
Gas oil (c) .. .. .	(a)	674	15,894	(a)	(a)	(a)
Diesel oil (c) .. .. .	4,384	2,393	10,123	6,238	23,636	42,646
Fuel oil (c) .. .. .	26,496	42,554	75,221	52,658	139,082	201,057
Trinidad and Tobago—						
Crude petroleum .. .	298,525	280,803	335,048	268,364	279,056	324,325
Aviation spirit .. .				185,553	196,216	183,915
do. (bunkers) .. .	614,410	634,125	633,471	10,336	11,488	7,931
Motor spirit .. .. .	(g) 7,403	(g) 8,129	(g) 8,284	562,762	554,060	720,760
do. (bunkers) .. .				409	15,525	20,077
Kerosine—Power .. .				313,745	481,789	422,559
do. (bunkers) .. .	216,124	238,164	227,705	18	4,319	7,801
Kerosine—other .. .	(g) 178	(g) 181	(g) 199	71,369	107,494	74,399
do. (bunkers) .. .				107	98	1,176
Gas oil .. .. .				369,501	323,671	373,123
do. (bunkers) .. .	220,390	276,978	284,142	30,384	41,786	49,588
Diesel oil .. .. .	(g) 57,685	(g) 42,190	(g) 27,396	110,217	95,333	25,554
do. (bunkers) .. .				147,816	210,518	263,477
Fuel oil .. .. .	1,135,084	1,373,827	1,337,684	1,417,279	1,145,397	1,424,718
do. (bunkers) .. .	1,028,550	1,177,823	1,084,217	1,192,228	1,281,811	1,082,402
Lubricating oil .. .	115	131	65	102	110	136
Road oil .. .. .	9,096	11,938	16,927	22,739	14,604	22,281
Asphalt—						
Crude .. .. .	16	27	—	38	—	1
Dried .. .. .	41,988	47,962	46,659	45,557	46,120	42,510
Asphalt cement .. .	49,369	29,393	23,433	39,473	58,440	33,805
Bituminous asphalt ..	60,896	45,480	62,304	73,516	109,901	97,796
Falkland Islands—						
Fuel oil (bunkers) (b) ..	2,305	1,000	19,281	17,772	31,409	21,880
Aden—						
Fuel oil (bunkers) (b) ..	1,575,539	2,138,491	2,720,861	2,243,935	2,622,960	2,743,170

(a) Information not available.

(b) Foreign produce. See imports.

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

(d) Including bunkers for military forces.

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

(f) Including Newfoundland from April 1, 1949. (g) Bunkers.

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

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
<i>(cont.)</i>						
<b>Bahrain Islands (e)—</b>						
Aviation spirit .. ..	12,699	14,207	19,555	24,795	} 2,200,215	2,014,980
Motor spirit .. ..	1,448,023	1,562,756	1,704,725	1,963,355		
Kerosine .. ..	674,490	595,288	669,190	811,855	1,074,630	771,990
Diesel oil .. ..	} 1,191,181	1,180,995	1,277,940	1,259,165	1,148,325	1,324,640
do. (bunkers) .. ..					153,985	200,070
Fuel oil .. ..	} 3,231,716	3,400,630	2,903,215	3,823,700	3,438,750	3,640,770
do. (bunkers) .. ..					590,245	652,815
Asphalt .. ..	14,411	42,639	66,690	66,530	(a)	(a)
<b>British Borneo—</b>						
<b>Brunei—</b>						
Crude petroleum (b)	2,641,516	3,200,400	4,011,463	4,895,640	4,990,194	4,799,473
Natural gas (1,000 cubic feet) .. ..	1,260,126	1,663,516	1,822,776	1,744,904	1,669,740	2,059,127
<b>Sarawak—</b>						
Crude petroleum (c)	1,169,665	1,768,681	2,356,997	3,206,152	3,077,254	2,789,506
Motor spirit .. ..	122,699	160,136	228,295	234,642	283,262	307,591
Kerosine .. ..	—	189	218	—	—	152
Gas oil .. ..	} 1,307,533	1,340,139	} 1,415,875	5,790	6,277	6,975
Diesel and fuel oils .. ..						
do. (bunkers) .. ..	31,812	43,678	54,569	80,280	109,843	120,904
<b>Ceylon (bunkers) (d)—</b>						
Gas oil .. ..	55	333	1,311	2,231	1,320	1,295
Diesel oil .. ..	65,114	83,531	78,849	71,145	63,485	72,845
Fuel oil .. ..	314,897	449,761	479,298	513,746	477,744	413,133
Lubricating oil .. ..	158	233	173	200	193	283
<b>Cyprus (d)—</b>						
Aviation spirit (bunkers)	(a)	(a)	(a)	3,686	3,680	5,042
<b>Hong Kong (re-exports)—</b>						
Motor spirit .. ..	57,333	55,968	52,503	15,283	3,271	1,590
Kerosine .. ..	41,372	37,912	26,299	7,556	3,023	1,587
Diesel oil and gas oil .. ..	} 63,316	74,662	55,297	13,213	} 5,653	5,133
Fuel oil .. ..						
Lubricating oil .. ..	(a)	(a)	(a)	(a)	479	484
Greases .. ..	(a)	(a)	(a)	(a)	40	33
Petroleum jelly .. ..	484	1,203	1,217	627	40	120
Paraffin wax .. ..	3,863	6,997	9,308	2,559	728	62
Asphalt and bitumen .. ..	(a)	(a)	(a)	(a)	381	1,079
<b>India—</b>						
<b>Aviation spirit (bunkers)</b>						
Domestic produce .. ..	—	—	247	2,941	852	—
Foreign produce .. ..	6,622	8,972	11,417	6,117	13,779	20,852
Motor spirit .. ..	—	—	—	—	74	35
Fuel oil (bunkers) (d)	22,412	22,897	40,231	32,790	80,344	189,173
Paraffin wax .. ..	11,973	13,232	19,816	28,693	21,222	23,121
<b>Kuwait (e)—</b>						
Crude petroleum .. ..	6,224,815	12,010,102	15,797,037	26,623,054	35,771,961	41,034,474
Export distillate .. ..	—	11,344	161,887	177,990	191,962	222,726
Diesel oil .. ..	} —	—	24,940	30,495	} 3,058	—
do. (bunkers) .. ..						
Fuel oil .. ..	} —	—	108,378	167,892	} 72,558	9,038
do. (bunkers) .. ..						
do. do. (d)	(a)	(a)	(a)	(a)	(a)	107,001

(a) Information not available.

(d) Foreign produce. See imports.

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

(e) British Protected State.

(c) Including crude petroleum imported from Brunei.

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

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
<i>(cont.)</i>						
Malaya (including re-exports)—						
Aviation spirit .. ..	115,657	111,436	80,945	126,726	128,910	172,335
do. do. (bunkers) ..	6,926	9,221	10,916	12,699	11,939	11,913
Motor spirit .. ..	182,567	300,993	514,384	604,438	735,916	883,697
Aviation turbine fuel ..	(a)	(a)	(a)	(a)	(a)	2,063
Kerosine .. ..	105,890	89,978	113,366	143,776	235,233	301,127
do. Power .. ..	13,787	32,662	52,533	126,859	139,555	88,746
Gas oil .. ..	50,946	72,830	157,814	234,463	301,712	360,542
Diesel oil .. ..	219,404	328,364	445,221	304,692	443,777	314,419
Fuel oil .. ..	274,268	609,044	577,081	377,922	423,425	500,237
Fuel and diesel oil (bunkers) .. ..	349,055	469,891	595,500	900,256	1,298,228	1,438,648
Lubricating oil .. ..	7,023	4,778	4,191	4,655	4,097	4,740
Other petroleum products .. ..	23	65	131	973	238	313
Paraffin wax .. ..	151	356	361	3,741	1,280	469
Asphalt and bitumen ..	1,485	1,307	1,225	1,154	5,959	8,670
Qatar (e)—						
Crude petroleum .. ..	—	—	1,551,853	2,266,460	3,199,360	3,902,595
Australia—						
Aviation spirit (bunkers) (b) (d) .. ..	3,265	4,095	4,283	4,827	10,304	7,638
Motor spirit .. ..	2,233	(b) 1,309	(b) 1,399	4,315	7,210	2,079
Kerosine .. ..	208	1,912	4,978	3,633	6,883	2,821
Lubricating oil .. ..	203	2,249	2,551	4,038	4,328	3,184
Residual and solar oils ..	1,364	5,180	7,640	7,967	18,127	8,930
Fuel oil (bunkers) (b)—						
Domestic produce .. ..	32,974	52,598	39,231	38,554	29,935	40,247
Foreign produce .. ..	309,824	385,298	360,408	431,590	432,110	387,083
Paraffin wax, etc. .. ..	11	7	6	3	3	1
Fiji—						
Aviation spirit (bunkers) (d) .. ..	3,371	3,751	3,781	3,355	3,739	5,862
Fuel oil (bunkers) (d) .. ..	5,334	6,138	548	627	725	(a)
Diesel oil (bunkers) (d) ..	979	1,791	627	2,709	1,085	1,198
New Zealand (d)—						
Aviation spirit (bunkers) (a) .. ..	(a)	3,052	4,264	4,588	5,201	5,199
Diesel oil (bunkers) .. ..	(a)	2,693	2,983	10,577	16,454	15,101
Fuel oil (bunkers) .. ..	42,867	21,689	33,100	39,090	38,983	15,484
Lubricating oil (bunkers) ..	485	689	723	623	836	750
Irish Republic (c)—						
Aviation spirit (bunkers) (d) .. ..	3,547	2,831	2,769	3,669	3,024	4,115
Fuel oil (bunkers) (d) .. ..	586	1,780	3,580	5,613	5,437	4,637
<b>FOREIGN COUNTRIES</b>						
Austria—						
Crude petroleum .. ..	527	—	—	—	—	—
Kerosine .. ..	993	9,932	—	—	—	—
Gas oil .. ..	1,980	15,367	7,736	2,669	14,053	61,424
Fuel oil .. ..	18,123	11,554	39,565	16,703	13,941	12,168
Lubricating oil, etc. .. ..	496	—	282	3,249	330	207
Belgium-Luxemburg						
E.U.—						
Crude petroleum .. ..	6,328	154	—	16,275	6,697	3
Motor spirit .. ..	5,019	6,741	31,473	31,017	262,529	279,186
Kerosine .. ..	45	58	1,937	1,340	26,529	40,344

(a) Information not available.

(b) Years ended June 30 of that stated.

(c) In addition re-exports of aviation spirit, presumably to the "Shannon Free Airport", were as follows (long tons): 1948—29,974; 1949—29,602; 1950—38,743; 1951—36,014; 1952—43,236; 1953—49,845.

(d) Foreign produce. See imports.

(e) British Protected State.

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

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Belgium-Luxemburg</b>						
<i>E.U.—(cont.)</i>						
Gas oil .. .. .	660,840	70,331	37,594	26,475	261,034	245,266
do. (bunkers) (b) .. .		17,710	20,888	23,388	57,093	71,534
Fuel oil, etc. .. .		33,416	14,593	121,671	806,525	836,790
do. (bunkers) (b) .. .		234,800	200,692	416,856	407,600	375,417
Lubricating oil .. .		48,723	59,649	62,299	49,131	50,175
do. (bunkers) (b) .. .		3,739	2,690	3,624	3,723	3,651
Other heavy oils .. .		1,087	31	128	559	192
Petroleum jelly .. .		76	21	117	229	95
Paraffin wax .. .		264	699	93	83	28
Ozokerite and ceresin .. .		236	291	267	135	20
Petroleum coke .. .	7,288	6,706	2,017	2,008	—	
Asphalt and bitumen .. .	910	129	202	347	495	
Residual asphalt, etc. .. .	68	326	378	634	4,564	
Pitch .. .	37,870	29,386	34,038	17,719	24,251	
<b>France—</b>						
Crude petroleum .. .	3,441	11,223	8,620	7,361	16,103	49
Aviation spirit .. .	3,630	988	333	337	674	1,369
Motor spirit .. .	194,772	469,570	609,408	743,582	1,444,847	1,527,744
White spirit .. .	4,040	8,714	40,613	29,415	31,991	5,155
Kerosine .. .	48,361	76,068	87,672	135,654	291,309	263,768
Gas oil .. .	156,284	770,765	1,316,908	1,391,275	1,681,587	1,195,427
do. (bunkers)—						
Domestic produce .. .	(c)	(c)	(c)	212,280	235,993	243,207
Foreign produce .. .	(c)	(c)	(c)	6,534	4,780	4,676
Fuel oil .. .	286,284	422,102	856,365	1,851,178	2,690,297	3,425,431
do. (bunkers)—						
Domestic produce .. .	(c)	(c)	(c)	1,462,850	1,742,193	1,640,843
Foreign produce .. .	(c)	(c)	(c)	129,562	158,651	32,910
Lubricating oil .. .	3,566	7,700	23,795	36,289	33,146	74,059
do. (bunkers)—						
Domestic produce .. .	2,567	3,334	7,507	12,388	16,869	17,169
Foreign produce .. .	6,585	9,142	7,298	6,366	4,727	3,988
Road oil, etc. .. .	47,225	66,052	136,683	166,147	154,204	187,283
Petroleum jelly .. .	29	24	73	55	38	29
Paraffin wax .. .	14	442	2,411	957	1,245	1,772
Ozokerite, ceresin, etc. .. .	20	33	7	75	53	185
Petroleum coke, etc. .. .	148	25	171	1,239	26	—
Asphalt and bitumen .. .	2,743	4,336	12,144	11,429	14,229	15,264
<b>Germany (Federal)—</b>						
Crude petroleum .. .	(d) 280,000	—	1	—	—	—
Motor spirit .. .	(d) 448,000	6	202	79,116	130,697	206,155
Kerosine .. .	—	—	—	241	1,745	33,004
Gas oil .. .	—	1,131	154	27	3,586	19,182
Fuel oil .. .	—	63,579	77,796	18,744	53,743	79,748
do. (bunkers) (b) .. .	—	20,646	19,424	76,589	84,532	233,809
Lubricating oil .. .	—	90	3,776	6,706	59,942	118,998
Paraffin wax .. .	—	6	1,393	3,521	5,084	12,550
Ozokerite, etc. .. .	60	425	1,376	1,365	408	539
Asphalt .. .	249	4,002	1,028	904	1,455	1,090
<b>Italy—</b>						
Motor spirit .. .	2,900	100,039	242,432	430,841	773,408	1,306,284
Kerosine .. .	4,612	61,217	111,806	174,601	311,958	449,574
Lubricating oil .. .	8	33	6	735	5,326	6,607

(b) Bunkers for foreign ships only.

(c) Total bunkers of gas and fuel oils were as follows (long tons): 1948—900,880; 1949—1,257,166; 1950—1,230,071.

(d) Bizonal area.

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

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Italy—(cont.)</b>						
Gas oil (d) .. ..	3,498	75,003	157,146	370,500	654,885	1,088,663
Fuel oil .. ..	2,126	24,646	264,481	309,878	943,271	1,416,568
do. (bunkers) .. ..	1,400	12,464	29,728	61,692	126,374	764,082
Paraffin wax .. ..	10	8	5	—	33	405
Asphalt and bitumen .. ..	4,838	6,385	15,604	8,342	13,553	11,388
Pitch .. ..	(a)	(a)	(a)	9,760	27,459	28,743
<b>Netherlands—</b>						
Crude petroleum .. ..	—	—	—	17	16	—
Aviation spirit (bunkers)	19,651	24,720	24,364	28,820	19,052	17,947
Motor spirit .. ..	68,273	238,831	605,175	1,039,301	1,479,346	1,453,592
Kerosine .. ..	—	—	13,398	55,418	78,165	197,589
Gas oil .. ..	30,437	235,914	599,767	717,037	760,331	713,808
do. (bunkers) (c) .. ..	124,406	188,500	257,769	319,874	363,650	435,867
Fuel oil .. ..	94,471	546,972	1,500,996	1,219,354	1,368,174	1,805,404
do. (bunkers) (c) .. ..	320,681	384,558	537,757	908,138	908,209	854,041
Lubricating oil .. ..	7,890	20,248	55,036	62,985	56,165	64,968
Greases .. ..	(a)	(a)	6,235	7,178	6,088	4,260
Petroleum jelly .. ..	590	311	1,624	2,453	1,732	740
Paraffin wax .. ..	268	634	4,518	2,588	3,354	2,524
Ozokerite and ceresin .. ..	2,203	1,789	1,533	830	373	375
Asphalt .. ..	59,660	59,381	96,506	129,518	160,241	74,371
Natural asphalt .. ..	25	—	397	—	—	—
Petroleum coke .. ..	3,868	798	644	98	—	1,172
do. (bunkers) .. ..	36,309	18,950	15,773	3,576	—	—
<b>Norway—</b>						
Motor spirit .. ..	124	69	61	333	714	193
Kerosine .. ..	17	24	30	2	3	2
Fuel oil and solar oil .. ..	26,629	1,440	84	—	—	68
Residual oils, etc. .. ..	82	37	54	(a)	(a)	(a)
<b>Portugal—</b>						
Motor spirit .. ..	6	—	550	307	19,235	1,772
Kerosine .. ..	4	28	137	58	574	128
Fuel oil .. ..	5,143	857	2,949	1,654	30,816	2,914
do. (bunkers) (b) .. ..	5,965	2,238	50	110	781	185
Lubricating oil, etc. .. ..	215	73	203	494	310	351
Other oils .. ..	4	4	2	10	18	7
<b>Sweden—</b>						
Motor spirit .. ..	1,007	13,757	18,579	636	1,470	1,296
Kerosine .. ..	—	1	1,335	21	54	30
Fuel oil and gas oil .. ..	—	2	17,126	9,895	2	19
Lubricating oil .. ..	300	465	342	381	281	1,247
Other oils .. ..	143	—	7	139	—	29
Paraffin wax .. ..	—	—	42	13	286	101
Petroleum jelly .. ..	—	—	—	10	—	3
Ozokerite and ceresin .. ..	—	—	15	10	—	3
Asphalt .. ..	76	1,470	113	117	24	162
Pitch .. ..	4,107	13,229	23,214	11,956	6,416	11,990
<b>Switzerland—</b>						
Motor spirit .. ..	1,025	106	3,381	3,093	590	114
Lubricating oil and grease .. ..	275	123	102	69	102	163
Petroleum jelly .. ..	12	16	2	36	10	—
Asphalt and bitumen .. ..	2,961	3,378	3,013	3,091	2,362	2,126
Paraffin wax and ceresin .. ..	72	239	14	8	5	10

(a) Information not available.

(b) Bunkers for foreign ships only.

(c) Including imported oil.

(d) Including bunkers.

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

Exporting Country and Description	1948	1949	1950	1951	1952	1953	
<b>FOREIGN COUNTRIES</b>							
<i>(cont.)</i>							
Yugoslavia—							
White spirit .. ..	}	(a)	{	2,963	1,344	2,313	2,031
Gas oil .. ..				10	4,544	25,878	15
Fuel oil .. ..				22,568	43,239	47,675	42,426
Bitumen .. ..				—	1,279	(a)	(a)
Algeria—							
Crude petroleum ..	—	—	1,472	6,557	25,360	75,861	
Motor spirit, etc. ..	44	107	5	11	36	20	
Fuel oil .. ..	133	5	6	70	403	474	
Fuel oil and gas oil (b) ..	393,981	400,786	(a)	692,730	631,645	634,903	
Lubricating oil ..	12	24	23	202	275	8	
Road oil, etc. ..	269	10	1,639	1,215	812	169	
Canary Islands (c)—							
Petroleum products ..	272,102	386,380	461,144	400,873	447,032	(a)	
do. (bunkers) ..	1,267,542	1,386,538	1,520,175	1,445,003	1,459,369	(a)	
Ceuta (c)—							
Petroleum products ..	812	—	—	312	1,981	(a)	
do. (bunkers) ..	133,414	214,400	69,205	380,081	365,053	(a)	
Egypt—							
Motor spirit .. ..	59	760	1,012	882	970	1,445	
Kerosine .. ..	1	1	61	520	26	—	
Fuel oil, etc. ..	9	6	426	995	246	293	
do. (bunkers for foreign ships) ..	283,176	420,013	326,591	302,436	207,865	128,106	
Lubricating oil ..	998	2,078	905	74	—	(a)	
Asphalt, etc. ..	44,387	24,342	38,237	29,085	10,695	7,863	
Morocco (French)—							
Crude, refined and residual .. ..	—	—	—	(a)	37,508	35,097	
Cuba (including re-exports)—							
Natural asphalt ..	292	27	—	—	(a)	(a)	
Mexico—							
Crude petroleum ..	1,558,805	864,230	1,673,450	1,024,152	1,769,355	525,990	
Motor spirit .. ..	226,030	5,641	50,763	30,745	20,952	5,283	
Kerosine .. ..	204,271	59,739	125,803	78,883	7,457	3,330	
Fuel oil .. ..	809,252	277,736	322,206	1,183,979	298,192	1,636,669	
do. (bunkers) ..	142,513	215,646	307,542	85,864	112,250	108,454	
Gas oil .. ..	159,428	65,982	76,018	57,463	24,362	20,068	
Lubricating oil ..	151	462	845	139	35	25	
Asphalt (petroleum) ..	17,035	7,600	7,496	—	—	—	
Natural asphalt ..	—	4	6	25	—	—	
Netherlands West Indies—							
Crude petroleum ..	1,831,544	794,005	978,052	459,706	466,757	616,198	
Aviation spirit ..	3,113,400	2,167,916	2,578,693	} 5,550,300	5,485,959	5,321,427	
Motor spirit .. ..	2,676,540	3,221,279	2,817,375				
Kerosine .. ..	1,279,542	1,277,021	1,413,286	} 2,308,016	2,691,340	2,205,970	
Gas oil .. ..	1,887,831	2,074,930	1,983,212				
do. (bunkers) ..	96,483	44,706	34,748	} 4,031,652	4,852,321	} 1,719,253	
Diesel oil .. ..	2,730,150	1,992,272	1,815,920				
do. (bunkers) ..	900,372	718,611	3,711,361	} 26,733,078	28,607,528	} 3,652,925	
Fuel oil .. ..	21,498,212	21,071,597	25,049,798				
do. (bunkers) ..	3,254,127	2,276,893	2,219,938	} 271,796	343,987	505,412	
Lubricating oil ..	237,133	303,969	239,088				
Asphalt .. ..	73,379	203,510	341,642	(d) 231,826	(d) 531,393	487,729	
United States—							
Crude petroleum ..	5,676,652	4,724,037	4,974,820	4,086,210	3,818,297	2,847,393	
Aviation spirit ..	566,001	841,073	595,754	1,149,964	1,447,539	1,441,302	
Motor spirit .. ..	2,496,977	2,358,004	1,287,573	2,255,152	1,481,933	1,622,647	

(a) Information not available.

(b) Bunkers of foreign produce.

(c) Foreign produce. See imports.

(d) Revised.

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

Exporting Country and Description	1948	1949	1950	1951	1952	1953
FOREIGN COUNTRIES						
(cont.)						
United States (cont.)—						
Other finished light products ..	163,976	122,905	113,661	164,110	184,012	154,930
Natural gasoline ..	466,597	500,729	114,591	188,303	213,825	108,765
Kerosine ..	372,059	231,820	166,796	763,270	907,091	819,514
Gas oil and distillate fuel oil ..	2,600,532	1,347,674	1,470,024	2,787,503	4,380,243	4,155,631
Residual fuel oil ..	1,362,498	1,246,596	1,733,237	3,517,972	3,273,737	2,904,995
Fuel oil (bunkers) ..	(a)	(a)	7,410,000	9,305,000	9,522,000	9,945,000
Lubricating oil ..	1,769,820	1,698,425	1,882,764	2,288,350	2,107,217	1,684,172
Transformer oil ..	21,337	27,202	23,539	34,353	27,886	23,923
Greases ..	52,360	52,382	51,000	59,330	59,656	43,156
Paraffin wax ..	124,242	128,837	139,049	155,358	121,684	128,615
Petroleum jelly ..	28,428	29,275	33,487	49,746	26,047	32,710
Asphalt and bitumen, natural ..	12,216	14,885	16,801	22,248	17,791	18,315
Other asphalt, etc. ..	241,034	209,336	127,883	163,612	346,053	247,562
Petroleum coke ..	447,549	436,004	436,539	790,202	743,531	645,060
Liquefied petroleum gases ..	91,447	107,243	136,130	175,269	199,478	250,612
Natural gas (million cu. ft.) (c) ..	5,674	6,152	26,392	22,899	27,192	28,564
Argentina—						
Bitumen (Rafaelite) ..	(a)	(a)	(a)	(a)	747	955
Bolivia—						
Crude petroleum ..	14,182	7,376	3,066	—	—	739
Fuel oil ..	275	—	(a)	(a)	(a)	(a)
Chile—						
Crude petroleum ..	—	—	55,000	94,000	107,800	147,600
Colombia—						
Crude petroleum ..	2,690,231	3,452,409	4,038,410	4,605,281	(a)	(a)
Ecuador—						
Crude petroleum ..	199,493	130,816	134,000	135,000	113,700	153,000
Peru—						
Crude petroleum ..	246,033	311,188	368,078	328,737	337,542	(a)
Natural gasoline ..	70,467	68,642	54,789	53,753	37,358	(a)
Aviation spirit ..	282,245	19,632	26,089	33,142	19,233	(a)
Motor spirit (b) ..		260,277	208,966	206,787	158,305	(a)
Kerosine ..	32,325	40,447	34,131	46,108	36,647	(a)
do. Power (b) ..		2,160	6,002	10,133	713	(a)
Gas oil (d) ..	—	87,516	—	77,108	60,007	(a)
Fuel oil and diesel oil ..	331,615	213,740	191,221	153,369	226,021	(a)
do. (bunkers) ..	58,749	44,171	45,938	61,815	68,888	(a)
Lubricating oil and grease ..	2,516	1,757	1,252	2,474	1,764	(a)
Uruguay (b)—						
Motor spirit ..	13,000	11,000	(a)	3,000	5,600	33,400
Kerosine ..	600	1,300	(a)	(a)	100	100
Gas oil and diesel oil ..	21,000	23,000	(a)	(a)	38,000	22,100
Fuel oil ..	156,000	305,000	(a)	240,000	172,000	179,000
Venezuela—						
Crude petroleum ..	61,691,749	59,070,686	64,636,000	71,837,827	75,841,518	69,839,900
Motor spirit ..	57,609	223,787	970,000	1,276,699	1,438,167	1,566,700
Kerosine ..	(a)	36,138	11,500	186,558	266,687	277,800
Gas oil ..	213,451	331,597	396,000	2,457,636	2,735,114	2,527,700
Diesel oil ..	466,480	476,306	1,170,586			
Fuel oil ..	3,962,414	4,271,513	6,865,396	7,893,850	8,660,971	11,439,900

(a) Information not available.

(b) Bunkers on foreign ships only.

(c) Revised.

(d) Including bunkers.

## EXPORTS OF PETROLEUM OR ALLIED PRODUCTS (cont.)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
Indonesia—						
Crude petroleum ..	9,714	300	7,942	—	589,000	2,053,000
Motor spirit ..	992,164	1,725,900	1,735,264	1,780,896		
Kerosine ..	399,636	554,300	540,527	571,459		
Fuel and motor oils ..						
do. (bunkers) ..			3,437,023	3,490,698		
Lubricating oil ..			61,898	(a)	6,746,000	7,394,000
Greases ..	2,387,200	3,321,900	(a)	(a)		
Paraffin wax ..			(a)	(a)		
Asphalt ..			(a)	(a)		
Turpene ..			(a)	(a)		
Iran—						
Crude petroleum ..	3,255,200	3,206,200	6,501,300	b 3,353,700	(a)	(a)
Motor spirit ..	3,655,500	3,964,800	4,080,900	b 1,799,300	(a)	(a)
Kerosine ..	1,851,000	2,117,200	2,283,500	b 1,085,400	(a)	(a)
Gas, diesel and fuel oils	13,480,100	14,769,500	15,767,300	b 7,458,100	(a)	(a)
Other products ..	185,700	195,600	202,400	b 89,000	(a)	(a)
Iraq—						
Crude petroleum ..	3,010,965	3,662,438	6,046,527	7,838,292	17,626,590	26,985,727
Motor spirit ..	2,780	167	784	2,727	(a)	(a)
Kerosine ..	4,387	5,490	6,014	1,855	(a)	(a)
Bitumen ..	56	1,083	10	—	(a)	(a)
Netherlands New Guinea—						
Crude petroleum ..	(a)	(a)	(a)	228,000	239,000	237,000
Saudi Arabia—						
Crude petroleum ..	12,700,200	16,549,500	20,859,641	29,116,148	c31,590,589	30,812,126

(a) Information not available.

(b) Anglo-Iranian Oil Co. only.

(c) Revised.



## IMPORTS OF PETROLEUM AND ALLIED PRODUCTS\*

(Less Re-exports)

(Long tons)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Crude petroleum ..	4,635,474	6,048,182	9,246,108	16,680,733	22,818,386	25,631,425
Aviation spirit (d) ..	276,615	372,391	249,615	356,447	400,973	502,448
Motor spirit ..	3,622,017	4,046,823	3,763,460	2,959,396	1,236,809	1,091,901
Other spirit ..	104,525	107,653	104,198	180,478	177,264	291,803
Kerosine—Power ..	888,667	919,341	811,970	839,740	878,887	866,249
do. Other ..	590,867	653,656	601,391	978,692	591,096	512,076
Fuel oil (d) ..	5,112,805	2,947,351	2,162,309	2,152,689	1,096,312	963,472
Diesel oil ..	301,747	310,412	232,436	246,703	309,397	223,931
Gas oil ..	1,801,342	1,723,225	1,391,179	1,472,134	789,079	1,107,422
Lubricating oil ..	347,348	291,833	479,861	447,556	442,173	451,150
Mineral jelly ..	9,723	8,060	8,822	10,595	6,217	9,132
Paraffin wax ..			29,581	58,310	22,745	14,045
Other petroleum wax ..	36,014	18,096	5,086	6,428	3,050	4,498
Ozokerite ..	329	17	94	12	11	(c) 29
Petroleum coke ..	7,222	13,069	9,131	9,449	9,766	9,726
Asphalt and bitumen (f) ..	44,007	48,909	54,365	56,924	56,595	61,256
Channel Islands—						
Aviation spirit ..	(g) 1,286	(g) 1,417	(g) 1,777	(g) 1,595	1,943	2,554
Motor spirit ..	14,352	16,611	16,900	16,732	16,629	17,335
Other spirit (g) ..	40	87	100	91	89	82
Kerosine ..	2,664	2,912	2,668	2,523	2,361	1,810
Gas and fuel oil ..	13,707	17,203	17,648	23,982	24,820	26,314
Lubricating oil ..	795	1,019	941	1,036	966	1,016
Greases (g) ..	21	23	23	20	14	19
Gibraltar (e)—						
Motor spirit, fuel oil, etc. ..	3,150	3,518	4,470	5,200	5,828	5,174
Kerosine ..	420	529	371	400	386	244
Malta—						
Aviation spirit (d) ..	19,913	22,945	13,026	13,549	30,135	26,419
Motor spirit ..	8,202	16,087	13,067	15,325	18,972	18,156
Kerosine ..	25,693	29,379	22,727	27,123	26,458	34,281
Fuel oil (d) ..	34,955	29,367	27,517	21,227	24,211	31,787
Gas oil (d) ..	8,997	8,060	9,728	14,955	14,773	13,503
Lubricating oil ..	674	546	660	1,074	619	666
Anglo-Egyptian Sudan—						
Aviation spirit (d) ..				11,876	22,318	19,840
Motor spirit (d) ..	35,245	36,707	39,492	36,519	40,305	46,466
Kerosine ..	8,913	10,685	10,347	12,164	17,479	20,220
Gas oil ..				13,115	14,681	17,401
Diesel oil ..	75,753	82,097	86,711	22,635	23,606	22,961
Fuel oil ..				87,320	88,583	91,602
Lubricating oil, etc. ..	3,906	4,160	2,732	4,147	8,077	4,607
Asphalt, etc. ..	1,456	1,625	2,199	3,639	6,967	1,970
Gambia—						
Aviation spirit ..	1	(c) 307	28	994	(c) 125	(c) 628
Motor spirit ..	1,212	1,270	1,938	1,501	2,179	1,125
Kerosine ..	455	373	513	910	560	415
Gas and diesel oil ..	1,329	1,583	1,555	1,746	1,398	1,350
Lubricating oil ..	155	272	241	233	224	54
Asphalt and bitumen ..	90	376	23	6	473	104

\*Excluding the United Kingdom, the following rates have been used for converting Imperial gallons to long tons: Aviation spirit 315, Motor spirit 305, Kerosine 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.

(e) Excluding imports for bunkers.

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

(c) Excess of re-exports.

(f) Natural.

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

(g) Jersey only.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
<i>(cont.)</i>						
<b>Gold Coast—</b>						
Aviation spirit (d) ..	1,770	3,468	2,346	2,307	3,927	3,413
Motor spirit (d) ..	34,925	44,099	60,201	65,507	74,489	82,126
Kerosine ..	10,954	14,301	20,565	18,988	24,236	29,116
Fuel oil (d) ..	23,242	20,828	38,224	33,315	10,314	609
Gas oil (d) ..	42,610	45,858	50,820	60,009	77,048	100,365
Diesel oil ..	1,147	2,044	8,842	3,339	12,280	8,882
Lubricating oil ..	4,160	4,467	6,571	6,968	8,003	4,884
Asphalt and bitumen ..	1,121	1,457	2,110	8,803	17,208	9,669
<b>Kenya (c)—</b>						
Aviation spirit (d) ..	9,764	8,084	7,293	9,330	14,888	8,120
Motor spirit (d) ..	72,629	79,572	54,882	98,917	96,987	78,559
Kerosine—Power ..	7,784	12,898	12,402	15,692	12,609	10,043
do. Other ..	5,364	17,785	8,822	22,234	21,782	16,830
Gas oil and fuel oil (d) ..	220,278	349,935	326,184	447,408	509,356	495,275
Lubricating oil (d) ..	7,688	7,392	6,162	4,098	15,229	5,466
Greases ..	751	605	450	669	970	600
Petroleum jelly ..	82	107	12	31	214	25
Paraffin wax ..	72	65	40	73	267	—
<b>Mauritius—</b>						
Aviation spirit (b) ..	7,770	2,225	425	408	1,219	939
Motor spirit ..		7,322	10,727	11,316	15,186	16,264
Kerosine ..	3,417	3,570	3,172	3,097	2,824	2,776
Lubricating oils ..	1,101	976	1,162	1,330	1,493	1,507
Gas, diesel, fuel oils (b) ..	1,785	5,246	8,679	9,223	16,089	17,231
Refined motor grease ..	126	94	116	168	165	166
Asphalt and pitch ..	2,308	1,614	1,712	826	2,347	1,887
<b>Nigeria—</b>						
Aviation spirit ..	9,886	6,723	13,654	14,552	11,594	14,656
Motor spirit ..	103,955	47,265	81,090	82,452	82,355	106,958
Kerosine ..	13,965	16,956	35,493	27,118	43,292	44,740
Gas oil (b) ..	11,003	1,070	4,935	7,290	8,561	15,434
Diesel oil (b) ..	832	8,061	13,784	6,331	15,816	19,244
Fuel oil (b) ..	7,273	19,678	8,865	22,847	21,587	19,052
Lubricating oil ..	3,722	3,714	5,221	7,734	10,443	5,402
Asphalt and bitumen ..	3,892	1,146	6,670	11,859	20,852	11,491
<b>Northern Rhodesia—</b>						
Aviation spirit ..	14,822	2,619	2,444	4,740	3,654	3,142
Motor spirit ..		17,884	23,059	27,830	32,606	36,906
Kerosine—Power ..	1,666	2,596	3,186	3,971	3,714	2,912
do. Other ..	1,575	1,991	2,396	2,915	3,346	3,774
Fuel oil ..	(a)	3,486	5,677	8,145	12,449	16,693
Lubricating oil ..	1,973	2,112	2,421	3,337	3,072	3,874
Asphalt and bitumen ..	3,068	2,641	3,121	1,840	4,672	1,341
<b>Nyasaland—</b>						
Motor spirit ..	4,338	5,569	7,938	8,388	9,405	9,964
Kerosine ..	1,114	1,251	2,188	1,362	2,052	2,299
Fuel oil ..	2,202	2,748	4,525	4,648	6,031	5,653
Lubricating oil ..	303	506	907	828	1,070	829
<b>St. Helena—</b>						
Motor spirit ..	149	165	122	174	256	105
Kerosine ..	65	117	23	111	109	78
Diesel oil ..	35	78	69	156	91	70
Lubricating oil ..	14	23	29	13	14	6
<b>Seychelles—</b>						
Motor spirit ..	182	208	253	305	308	371
Kerosine ..	563	191	337	202	263	251
Fuel oil ..	250	273	154	374	98	207
Lubricating oil ..	22	18	20	19	47	26
<b>Sierra Leone—</b>						
Aviation spirit (b) ..	154	307	419	151	221	337
Motor spirit ..	4,159	4,636	5,331	5,247	6,301	7,031
Kerosine ..	2,844	3,722	3,926	4,733	5,936	6,605
Gas oil ..	2,584	2,257	2,864	2,790	4,596	4,204

(a) Information not available.

(b) Including bunkers. See exports.

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

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
<i>(cont.)</i>						
<b>Sierra Leone cont.—</b>						
Diesel oil .. .. .	20	813	1,579	1,747	2,277	762
Fuel oil (d) .. .. .	2,848	3,937	3,951	3,961	3,892	6,318
Lubricating oil .. .. .	880	368	469	882	1,088	882
Asphalt and bitumen .. .. .	129	99	8	713	178	336
<b>Somaliland Protectorate—</b>						
Motor spirit .. .. .	3,591	2,947	2,995	3,588	3,236	3,228
Kerosine .. .. .	454	424	417	439	454	696
Gas oil and diesel oil .. .. .	772	(a)	(a)	793	984	670
Lubricating oil .. .. .	197	(a)	(a)	133	107	146
<b>Southern Rhodesia—</b>						
Aviation spirit .. .. .	5,996	5,453	4,602	6,526	9,491	6,269
Motor spirit .. .. .	53,414	65,605	80,449	91,680	99,341	103,577
Kerosine—Power .. .. .	6,449	11,454	13,597	19,024	18,545	18,892
do. Other .. .. .	4,261	5,444	5,560	7,489	9,089	8,012
Fuel oil .. .. .	11,280	13,864	20,011	26,285	28,327	34,667
Lubricating oil .. .. .	5,049	5,878	6,972	8,519	11,494	6,342
Other oils (total imports)	240	459	267	482	851	671
Paraffin wax .. .. .	395	400	513	467	482	520
Asphalt and bitumen .. .. .	4,799	9,043	9,416	17,086	18,436	7,473
<b>South West Africa—</b>						
Motor spirit .. .. .	17,284	17,488	18,876	21,697	19,179	(a)
Kerosine—Power .. .. .	1,428	2,449	2,347	2,324	(a)	(a)
do. Other .. .. .	2,365	2,753	2,570	3,650	4,890	(a)
Diesel oil .. .. .	15,026	12,685	20,400	20,750	(a)	(a)
Fuel oil .. .. .	—	97	—	7	(a)	(a)
Lubricating oil .. .. .	2,375	1,129	1,503	2,221	2,655	(a)
Asphalt and bitumen .. .. .	230	247	288	223	732	(a)
<b>Tanganyika—</b>						
Aviation spirit (d) .. .. .	3,221	4,034	3,789	3,288	2,998	3,813
Motor spirit .. .. .	33,189	44,006	40,839	37,565	41,241	49,274
Kerosine—Power .. .. .	1,629	2,607	1,595	2,226	3,371	2,334
do. Other .. .. .	9,700	12,220	7,361	15,220	16,417	14,862
Gas oil .. .. .	19,417	36,103	52,258	36,556	48,609	57,162
Diesel oil .. .. .						
Fuel oil (d) .. .. .	4,650	5,379	5,233	4,984	9,212	2,746
Lubricating oil .. .. .						
Greases .. .. .	604	1,043	425	268	588	453
Petroleum jelly .. .. .	22	38	25	20	54	20
Paraffin wax .. .. .	4	27	—	3	2	—
<b>Uganda—</b>						
Aviation spirit (e) .. .. .	(b)	1,995	1,842	1,734	2,149	4,346
Motor spirit .. .. .						
Kerosine—Power .. .. .	6,900	7,600	10,692	8,806	13,252	5,299
do. Other .. .. .						
Gas oil and fuel oil .. .. .	2,392	30,014	18,270	24,649	37,249	37,249
Lubricating oil .. .. .						
Greases .. .. .	164	137	167	159	193	193
Petroleum jelly .. .. .	24	11	20	30	26	26
Paraffin wax .. .. .	4	2	1	1	3	3
<b>Union of South Africa—</b>						
Motor spirit (d) .. .. .	876,554	1,008,594	1,023,130	1,065,362	1,119,801	f 1,180,820
Other spirit .. .. .	5,779	9,447	8,727	14,207	12,276	(a)
White spirit .. .. .	13,007	11,504	18,834	15,436	19,754	(a)
Kerosine—Power .. .. .	147,291	186,420	213,506	256,523	269,267	(f) 306,989
do. Other .. .. .	108,199	133,521	127,950	147,952	114,826	(f) 152,568
Gas oil .. .. .	292,065	299,196	463,209	431,194	(f) 398,576	f 248,576
Diesel oil (e) .. .. .						
Fuel oil (e) .. .. .	403,791	371,684	289,092	434,725	(f) 327,478	(f) 240,978
Lubricating oil .. .. .	60,234	70,270	66,301	85,711	93,805	(f) 71,846
Transformer oil .. .. .	1,416	2,912	3,579	3,777	4,364	(a)

(a) Information not available.

(b) Included with Kenya.

(c) Including bunkers. See exports.

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

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

(f) Total imports.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
<i>(cont.)</i>						
Union of South Africa						
<i>—(cont.)</i>						
Road oil .. ..	10,263	4,730	9,513	4,513	857	(a)
Other oils .. ..	1,580	2,520	1,795	2,897	1,737	(a)
Paraffin wax .. ..	14,217	8,365	10,918	15,902	(i) 16,080	(i) 13,254
Asphalt and bitumen ..	19,307	22,115	29,202	41,678	46,064	(i) 38,549
Petroleum jelly .. ..	1,104	2,458	2,171	3,413	2,479	(a)
Zanzibar—						
Motor spirit, etc. .. ..	1,551	1,986	2,561	3,339	3,427	354
Kerosine, etc. .. ..	423	1,875	2,416	2,897	2,796	3,144
Fuel oil .. ..	2,232	1,457	2,561	1,233	1,865	2,353
Canada (g)—						
Crude petroleum .. ..	10,794,172	10,563,835	11,237,210	11,897,747	11,599,948	11,353,974
Tops for refiners .. ..	264,026	220,713	186,316	121,312	197,467	273,592
Aviation spirit .. ..	} 1,057,071	137,446	160,860	174,550	229,933	253,528
Motor spirit .. ..		867,879	641,900	483,868	582,858	694,252
Kerosine, etc. .. ..	275,257	137,020	57,818	70,172	123,560	97,916
Lubricating oils .. ..	64,563	65,776	70,776	115,590	125,158	139,767
Diesel oil .. ..	} 1,395,803	150,407	278,226	451,313	336,738	277,993
Fuel oil .. ..		776,658	2,031,892	2,329,592	2,737,930	2,709,382
do. (h) .. ..	52,101	55,531	44,564	59,409	64,995	78,319
Other petroleum oils ..	6,543	3,910	4,793	8,074	10,590	11,147
Liquefied petroleum gas	(a)	63,619	69,409	84,308	85,581	117,442
Petroleum jelly, etc. ..	(£137,896)	(£157,134)	(£205,706)	(£228,531)	(£216,704)	(£217,914)
Grease .. ..	4,534	4,909	5,573	6,069	8,109	9,015
Paraffin wax, etc. .. ..	19,461	10,945	13,384	16,703	13,627	16,574
Asphaltum oil, etc. ..	—	—	371	20	—	—
Asphalt .. ..	9,443	19,730	18,986	14,795	9,805	20,175
Petroleum coke .. ..	274,321	265,984	267,300	314,437	255,460	260,658
Other products .. ..	36,843	16,175	10,829	17,189	23,729	58,284
Newfoundland (d)—						
Motor spirit (e) .. ..	92,586	} (d)	(d)	(d)	(d)	(d)
Kerosine .. ..	7,472					
Lubricating oil .. ..	2,562					
Fuel oil, etc. (c) .. ..	153,703					
Greases .. ..	112					
Paraffin wax .. ..	2					
Asphalt, etc. .. ..	3,365					
British Guiana—						
Aviation spirit (b) .. ..	332	239	1,056	848	1,386	292
Motor spirit .. ..	6,586	6,602	8,385	9,813	10,322	10,962
Kerosine .. ..	3,805	3,002	4,995	5,020	4,233	6,074
Gas, diesel and fuel oils						
(j) .. ..	69,856	64,221	71,096	73,724	91,848	126,387
Lubricating oil .. ..	1,847	1,369	1,569	2,186	2,842	1,416
Paraffin wax .. ..	21	10	3	12	22	10
Asphalt .. ..	348	35	257	242	224	349
British West Indies—						
Bahamas—						
Motor spirit .. ..	5,921	10,190	8,610	10,118	11,905	12,308
Kerosine .. ..	2,284	2,716	2,618	3,335	3,440	3,895
Fuel oils (i) .. ..	8,683	9,988	8,996	11,400	12,845	13,817
Lubricating oil .. ..	352	344	512	440	644	344
Barbados—						
Crude petroleum .. ..	6,140	6,261	5,357	5,566	5,711	8,398
Motor spirit .. ..	5,389	6,729	7,268	9,464	9,399	11,027
Kerosine .. ..	3,130	3,783	4,835	5,676	5,765	7,440
Gas oil and diesel oil ..	4,195	3,327	3,777	5,537	3,135	6,880
Fuel oil .. ..	1,840	2,409	(f) 282	—	—	—
Lubricating oil .. ..	450	465	687	644	574	701
Road oil .. ..	138	154	108	120	57	18

(a) Information not available.

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

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

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

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

(h) Ex warehoused, for ships' stores. (i) Total imports. (j) Revised.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
<i>(cont.)</i>						
<b>British West Indies—</b>						
<i>(cont.)</i>						
<b>Bermuda—</b>						
Aviation spirit ..	(d) 24,029	(d) 32,173	(d) 19,666	(d) 30,306	(d) 37,198	(d) 50,111
Motor spirit ..						
Kerosine ..	(d) 2,740	(d) 2,442	(d) 1,924	(d) 1,253	(d) 1,467	(d) 1,776
Diesel oil ..	(d) 11,674	(d) 9,580	(a)	(d) 11,784	(d) 17,400	(d) 13,415
Fuel oil ..	(d) 20,530	(d) 10,599	(d) 6,121	(d) 8,329	(d) 19,005	(d) 16,117
Lubricating oil ..	(d) 767	(d) 775	(d) 794	(a)	(d) 1,162	(d) 988
Asphalt ..	1,570	(c) 177	49	2,700	2,164	634
<b>Dominica—</b>						
Motor spirit ..	305	333	405	496	603	650
Kerosine ..	242	273	318	377	73	430
Fuel oil and diesel oil ..	131	117	197	294	502	480
Lubricating oil ..	18	22	29	32	50	35
Road oil ..	401	182	132	(a)	(a)	(a)
<b>Grenada—</b>						
Motor spirit ..	977	1,391	1,275	1,603	1,676	1,652
Kerosine ..	661	565	602	711	812	891
Fuel oil ..	313	286	377	311	415	434
Lubricating oil ..	43	43	56	102	77	35
Road oil ..	646	773	589	543	463	391
<b>Jamaica (total imports)—</b>						
Aviation spirit (d) ..	10,044	10,082	9,899	7,125	12,761	11,314
Motor spirit (d) ..	28,528	34,458	41,079	36,072	39,716	41,847
Kerosine ..	8,371	10,655	10,617	9,744	11,433	12,355
Gas oil (b) ..	2,893	14,678	18,732	(a)	(a)	(a)
Diesel oil (b) ..	12,602	11,778	10,935	6,238	23,636	78,494
Fuel oil (b) ..	106,680	108,370	93,719	55,200	139,088	201,057
Lubricating oil ..	2,163	2,104	1,845	2,797	2,774	2,855
Grease ..	279	304	379	290	336	275
Petroleum jelly ..	77	127	93	155	127	156
Paraffin wax ..	15	27	69	21	70	28
Asphalt ..	5,855	6,309	3,220	6,954	2,902	6,879
<b>Leeward Islands—</b>						
Motor spirit ..	1,620	1,971	1,805	1,951	2,443	1,316
Kerosine ..	670	768	879	867	1,328	1,595
Gas oil ..	627	551	944	693	972	3,260
Diesel oil ..	571	741	1,008	612	1,056	127
Fuel oil ..	158	188	192	111	459	132
Road oil ..	206	424	498	466	522	806
Lubricating oil ..	264	150	210	111	214	176
<b>St. Lucia—</b>						
Motor spirit ..	625	730	686	1,030	956	810
Kerosine ..	295	262	239	494	417	403
Fuel oil ..	372	492	442	909	720	1,120
Lubricating oil ..	72	115	128	89	85	57
Road oil ..	412	404	354	408	392	172
<b>St. Vincent—</b>						
Motor spirit ..	539	709	681	682	786	878
Kerosine ..	315	362	392	401	494	550
Gas, diesel and fuel oils ..	440	416	394	488	530	337
Lubricating oil ..	47	51	48	40	64	51
Road oil ..	115	198	218	340	146	162
Asphalt, tar and pitch	6	7	4	7	1	4

(a) Information not available.

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

(c) Excess of re-exports.

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

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
<i>(cont.)</i>						
<b>British West Indies—</b>						
<i>(Cont.)</i>						
<b>Trinidad and Tobago—</b>						
Crude petroleum ..	1,265,332	1,613,696	1,607,463	2,248,962	2,314,096	2,306,232
Aviation and motor spirits .. ..	7	16,285	7	16	3,148	29,634
Kerosine .. ..	—	—	7	(c) 4	3	—
Gas oil .. ..	—	—	803	—	—	—
Fuel oil .. ..	—	—	537	1	194	3,135
Lubricating oil ..	3,020	3,306	3,255	3,917	3,951	3,235
Greases .. ..	(a)	(a)	(a)	248	448	230
Petroleum jelly ..	51	72	122	60	101	118
Paraffin wax ..	27	37	44	17	21	18
<b>British Honduras—</b>						
Aviation spirit ..	207	(c) 74	(c) 12	129	198	(c) 119
Motor spirit .. ..	2,412	2,285	2,971	3,716	4,042	3,876
Kerosine .. ..	1,188	1,347	1,309	1,349	1,826	1,856
Diesel oil .. ..	1,607	1,814	2,162	3,293	2,671	2,568
Lubricating oil ..	252	115	254	454	272	407
Asphalt .. ..	825	567	725	821	990	1,578
<b>Falkland Islands—</b>						
Motor spirit .. ..	161	211	274	243	159	135
Kerosine .. ..	61	86	122	128	125	59
Gas and diesel oils ..	50	454	1,188	168	996	898
Fuel oil (e) .. ..	72,924	88,679	107,383	131,720	111,617	54,398
<b>Aden Colony—</b>						
Motor spirit .. ..	5,649	7,204	1,071	8,205	9,546	8,790
Kerosine .. ..	4,083	3,896	3,694	5,206	4,660	6,701
Gas oil .. ..	18	12,487	17,138	147,896	30,607	88,261
Fuel oil (b) .. ..	1,694,039	2,204,001	2,458,024	2,404,698	2,522,368	2,386,977
Lubricating oil ..	790	828	982	(c) 3,742	1,544	2,159
Petroleum jelly ..	—	—	—	—	—	—
Paraffin wax .. ..	—	—	—	—	—	—
Asphalt and bitumen ..	5	764	117	95	1,055	13,186
<b>Aden Protectorate (f)—</b>						
Motor spirit .. ..	359	644	671	726	812	(a)
Kerosine .. ..	168	85	127	113	58	(a)
Gas oil .. ..	(a)	(a)	(a)	—	24,825	(a)
Fuel oil .. ..	(a)	(a)	—	—	45	(a)
Lubricating oil ..	(a)	(a)	(a)	669	71	(a)
<b>Bahrain Islands (d)—</b>						
Crude petroleum ..	5,725,000	5,967,000	6,028,000	7,170,000	7,764,000	8,128,900
<b>British Borneo—</b>						
<b>Brunei—</b>						
Motor spirit .. ..	1,690	2,600	3,089	793	3,656	7,306
Kerosine .. ..	(a)	557	549	269	643	1,347
Diesel oil .. ..	(a)	2,530	5,818	132	6,775	10,263
Fuel oil .. ..	3,615	86	234	48	94	534
Lubricating oil ..	480	589	1,596	55	1,120	1,907
Grease .. ..	(a)	(a)	(a)	2	76	54
<b>North Borneo—</b>						
Motor spirit .. ..	2,151	3,438	3,732	4,633	7,136	7,281
Kerosine .. ..	1,844	2,181	2,665	3,262	3,034	3,363
Fuel oil .. ..	4,523	8,376	6,024	3,176	6,662	7,431
Lubricating oil ..	247	458	517	477	898	736

(a) Information not available.

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

(c) Excess of re-exports.

(d) British Protected State.

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

(f) Re-exports from Aden Colony to the Protectorate.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
<i>(cont.)</i>						
<b>Sarawak—</b>						
Crude petroleum ..	2,641,516	3,290,440	4,057,462	4,895,640	4,990,194	4,798,933
Motor spirit ..	1,381	1,608	2,265	3,880	4,521	4,530
Kerosine ..	3,774	4,062	5,232	6,393	5,516	5,579
Diesel oil ..	847	2,279	4,537	5,100	6,119	6,293
Fuel Oil ..	3,505	2,434	588	787	780	1,041
Lubricating oil ..	394	428	619	712	863	1,182
Natural gas (1,000 cu. ft.) ..	1,260,123	1,663,614	1,822,776	1,744,904	1,769,740	2,056,127
<b>Ceylon—</b>						
Aviation spirit ..	} 76,940	84,994	89,330	106,316	125,376	} 5,641
Motor spirit ..						
Kerosine ..	34,661	57,261	43,026	64,869	70,971	70,907
Gas oil (c) ..	12,529	24,804	17,427	17,422	25,908	38,324
Diesel oil (b) ..	108,426	162,989	103,402	141,953	127,469	139,169
Fuel oil (b) ..	292,133	464,140	507,853	536,226	486,928	442,637
Lubricating oil (c) ..	6,084	7,607	5,850	8,323	9,989	4,962
Other oils and greases ..	181	279	369	325	545	132
Asphalt ..	7,911	15,336	14,140	11,445	33,611	7,443
<b>Cyprus—</b>						
Aviation and motor spirit ..	15,790	17,806	21,246	(c) 30,090	(c) 35,458	(c) 44,060
Kerosine, etc. ..	13,738	14,113	18,789	19,152	15,714	19,126
Fuel oils ..	22,181	42,349	46,943	43,106	50,720	57,383
Lubricating oil ..	1,520	2,209	1,827	1,391	1,860	2,189
Paraffin wax ..	109	73	65	165	108	(a)
Asphalt and bitumen ..	3,149	2,673	2,958	4,505	5,668	5,609
<b>Hong Kong (total imports)—</b>						
Aviation spirit ..	} 74,213	147,974	77,999	52,422	} 10,970	11,095
Motor spirit ..						
White spirit ..	(a)	(a)	(a)	(a)	687	1,551
Kerosine ..	56,630	59,428	37,111	21,056	31,860	42,770
Diesel oil and gas oil ..	} 339,441	536,870	495,017	495,070	} 86,080	101,616
Fuel oil ..						
Lubricating oil ..	(a)	(a)	(a)	(a)	6,592	2,974
Greases ..	(a)	(a)	(a)	(a)	279	217
Petroleum jelly ..	1,124	1,509	1,825	2,918	270	197
Paraffin wax ..	4,749	6,596	10,749	2,573	737	760
Asphalt and bitumen ..	(a)	(a)	(a)	(a)	9,125	1,190
Asphalt (natural) ..	(a)	(a)	(a)	(a)	307	482
<b>India—</b>						
Aviation and motor spirits (c) ..	368,498	552,806	639,270	758,548	808,246	857,996
Other spirit ..	9,095	246	3,103	7,744	22,116	129
Kerosine ..	376,338	699,019	808,637	872,081	997,391	933,764
Diesel oil ..	269,191	499,181	509,523	599,778	666,411	592,801
Fuel oil (c) ..	657,999	849,507	787,858	856,020	754,681	752,793
White spirit, etc. ..	29,831	8,930	326	539	308	27
Lubricating oil ..	183,893	258,033	170,745	162,694	258,650	164,247
Turpentine substitute ..	8	41	2,169	2,113	1,681	8,640
Other oils ..	6,393	17,907	8,659	12,960	13,165	39,493
Greases ..	4,550	2,637	2,619	5,465	4,636	1,744
Paraffin wax ..	1,264	839	106	7	6	—
Asphalt ..	46,293	67,431	87,493	28,587	141,078	126,813

(a) Information not available.

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

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

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
<i>(cont.)</i>						
Malaya (total imports)—						
Aviation spirit .. ..	99,425	139,756	101,761	154,064	165,686	226,260
Motor spirit .. ..	236,027	423,869	689,841	854,821	992,056	1,183,509
White spirit .. ..	(a)	(a)	(a)	(a)	(a)	39,000
Aviation turbine fuel .. ..	(a)	(a)	(a)	(a)	(a)	2,013
Kerosine—Power .. ..	8,645	30,338	59,387	130,201	146,318	97,108
do. Other .. ..	93,146	121,014	172,930	150,535	261,891	316,810
Gas oil .. ..	139,070	148,819	305,792	512,634	789,741	851,567
Diesel oil .. ..	510,693	816,848	729,633	753,414	741,764	651,489
Fuel oil .. ..	565,131	996,140	1,222,917	1,413,042	1,958,802	2,052,131
Lubricating oil .. ..	16,674	15,070	22,264	32,578	28,915	22,078
Paraffin wax .. ..	1,341	1,243	2,079	5,919	2,598	1,903
Asphalt and bitumen .. ..	14,031	36,341	30,906	27,073	36,202	30,043
Petroleum jelly .. ..			939	2,268	353	163
Grease .. ..	119	44	448	16	2	1,162
Pakistan (f)—						
Motor spirit .. ..				74,129	47,855	64,087
Other spirit .. ..				2,220	13,572	41,017
Kerosine .. ..				138,372	99,686	222,795
Diesel oil .. ..				98,572	95,099	156,762
Fuel oil .. ..				404,207	510,215	502,012
Lubricating oil .. ..	(a)	(a)	(a)	21,013	34,911	19,156
Turpentine substitutes .. ..				75	165	2
Other oils .. ..				1,056	1,817	390
Grease .. ..				1,052	1,680	7,623
Paraffin wax .. ..				3,732	818	356
Asphalt .. ..				11,402	45,309	4,535
Australia—						
Crude petroleum .. ..	379,408	571,904	784,141	786,054	974,471	980,159
Aviation spirit (b) .. ..			112,054	125,308	158,216	139,314
Motor spirit .. ..	1,308,866	1,466,456	1,663,166	1,789,533	1,996,771	2,032,405
White spirit .. ..	(d) 23,986	(d) 28,924	34,640	30,508	30,451	41,093
Kerosine—Power .. ..		280,514	292,538	269,602	254,409	268,978
do. Other .. ..	401,153	106,379	141,740	172,652	202,799	199,134
Lubricating oil .. ..	80,681	145,940	129,796	138,372	187,674	70,137
Solar oil .. ..		315,038	364,769	427,200	515,236	398,529
Residual oil .. ..	1,455,649	1,419,234	1,217,920	1,671,707	1,490,418	1,391,281
Petroleum jelly .. ..	355	471	(d) 870	2,235	1,607	(d) 692
Paraffin wax, etc. .. ..	5,936	3,576	(d) 3,141	7,297	4,883	1,719
Mastic asphalt .. ..		3	—	—	100	(d) —
Natural asphalt (d) .. ..	34,896	4,180	4,244	(e) 4,774	(e) 2,333	627
Bitumen and pitch (d) .. ..	100,891	18,779	(e) 30,583	(e) 33,388	(e) 31,169	24,331
Fiji—						
Aviation spirit (c) .. ..	3,679	4,060	4,014	5,028	5,516	8,148
Motor spirit .. ..	7,533	8,525	9,900	10,690	10,460	14,563
Kerosine .. ..	1,734	3,791	2,357	2,861	3,525	3,595
Diesel oil (b) .. ..	9,284	11,302	12,653	15,279	18,068	12,333
Fuel oil (b) .. ..	14,279	14,829	7,571	458	284	5,177
Lubricating oil .. ..	786	686	816	1,058	919	350
Greases .. ..	84	95	106	157	124	86
New Guinea (d)—						
Motor spirit .. ..	5,504	9,331	4,240	3,892	8,419	8,203
Kerosine .. ..	616	2,842	922	1,846	2,037	1,841
Fuel oil .. ..	5,083	7,872	4,356	8,424	7,227	9,268
Lubricating oil .. ..	338	466	705	549	699	494

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

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

(d) Years ended June 30 of that stated.

(e) Calendar year.

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



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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
<i>(cont.)</i>						
<b>New Zealand—</b>						
Aviation spirit (b) ..	} 383,693	22,952	15,200	13,181	22,656	28,395
Motor spirit ..		442,764	454,853	445,551	621,067	621,695
White spirit ..	5,173	3,316	4,607	5,057	8,298	4,686
Kerosine—Power ..	32,227	24,379	21,046	16,510	15,651	10,002
do. Other ..	6,838	3,205	7,110	9,366	17,010	9,658
Gas oil ..	} b 384,562	19,120	24,177	28,550	84,545	90,382
Diesel oil ..		b 170,746	(b) 187,307	(b) 223,345	(b) 182,100	(b) 146,219
Fuel oil ..	b 80,903	(b) 317,262	(b) 247,727	(b) 270,976	(b) 195,431	
Lubricating oil (b) ..	25,785	17,179	29,378	24,508	35,850	17,766
Transformer oil ..	943	1,125	502	2,164	1,196	1,087
Other refined oils ..	5,233	636	2,733	4,377	6,120	6,332
Paraffin wax ..	1,773	401	1,091	1,517	1,649	703
Asphalt and bitumen ..	} 32,558	22,757	17,188	9,394	21,902	21,800
do. natural ..		3,233	10,624	7,874	9,477	11,592
<b>Papua (d)—</b>						
Motor spirit ..	(a)	5,192	(a)	2,614	3,675	(a)
Kerosine ..	(a)	685	(a)	456	858	(a)
Fuel oil ..	(a)	5,887	(a)	2,393	5,017	(a)
Lubricating oil ..	(a)	(a)	(a)	317	492	(a)
<b>Solomon Islands (c)—</b>						
Fuel oil, etc. ..	—	219	576	16	(a)	(a)
Motor spirit ..	69	420	377	383	755	303
Kerosine ..	151	135	309	229	637	245
Lubricating oil ..	16	38	89	177	53	213
<b>Western Samoa—</b>						
Motor spirit ..	1,931	1,140	1,588	927	1,919	1,512
Kerosine ..	432	623	241	403	507	443
Fuel oil ..	191	188	485	318	361	523
Lubricating oil ..	207	33	165	200	42	19
<b>Irish Republic—</b>						
Aviation spirit (b) ..	} 159,914	195,565	9,512	3,912	1,857	6,941
Motor spirit ..			196,379	227,405	249,473	253,308
White spirit ..	(a)	(a)	(a)	(a)	(a)	2,259
Kerosine—Power ..	} 84,261	90,800	76,466	99,992	105,773	47,983
do. Other ..						58,380
Diesel oil, etc. (b) ..	202,095	199,268	250,628	363,767	333,148	182,851
Fuel oil (b) ..	10,900	14,071	14,056	17,326	13,803	15,946
Lubricating oil ..	1,898	753	2,347	2,802	1,100	1,123
Paraffin wax ..	25,958	15,680	24,543	27,059	30,797	1,310
Asphalt and bitumen ..						
<b>FOREIGN COUNTRIES</b>						
<b>Austria—</b>						
Motor spirit ..	41,184	48,448	47,947	34,327	12,773	1,320
Gas oil ..	7,290	—	4,129	1	—	—
Fuel oil ..	2,325	3,460	1,453	20	—	4
Lubricating oil, etc. ..	4,427	10,329	7,573	10,172	9,785	10,111
Petroleum jelly ..	95	374	223	122	230	154
Paraffin wax ..	1,025	2,304	502	3,389	1,924	2,185
Ozokerite and ceresin ..	209	775	404	200	198	343
Asphalt, bitumen, etc. ..	1,482	5,183	2,080	3,068	1,340	742
Petroleum coke ..	7,294	8,726	8,866	8,188	17,884	20,345
Tar and pitch ..	1,980	7,706	2,381	9,949	4,941	5,828

(a) Information not available.

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

(c) Years ended March 31 following that stated.

(d) Years ended June 30 of that stated.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Belgium-Luxemburg</b>						
E.U.—						
Crude petroleum ..	234,557	337,320	435,201	918,830	2,244,598	2,886,674
Motor spirit, etc. ..	506,670	545,618	670,836	728,830	596,921	542,370
Kerosine ..	16,855	20,132	32,369	48,287	47,703	54,444
Fuel oil and gas oil ..	846,417	987,361	1,116,658	1,675,895	1,336,351	1,221,246
Lubricating oil ..	103,000	108,106	138,531	162,939	131,423	117,290
Other heavy oils ..	(a)	1,766	3,822	416	510	3,287
Petroleum jelly ..	618	587	841	1,128	1,010	1,067
Paraffin wax ..	3,174	3,100	6,219	4,109	2,697	4,040
Ozokerite and ceresin ..	200	133	503	380	73	186
Asphalt, bitumen, etc. ..	3,440	3,987	5,740	12,290	12,414	5,066
Pitch ..	4,170	1,057	1,697	8,798	2,892	3,429
<b>Czechoslovakia—</b>						
Crude petroleum, etc. ..	(b) 186,366					
Motor spirit and kerosine ..	(b) 2,174					
Fuel oil and gas oil ..	(b) 60,984					
Lubricating oil and greases ..	(b) 27,445	(a)	(a)	(a)	(a)	(a)
Paraffin wax ..	(b) 3,542					
Ozokerite and ceresin ..	(b) —					
Petroleum jelly ..	(b) 165					
Asphalt products ..	(b) 383					
<b>Denmark—</b>						
Crude petroleum ..	19,306	40,022	33,219	20,828	32,756	20,725
Motor spirit ..	299,395	358,107	494,951	430,508	462,707	546,584
White spirit ..	5,664	7,588	10,359	8,722	8,939	6,439
Kerosine ..	32,741	39,011	50,286	54,986	52,461	46,508
do. Power ..	13,939	17,219	17,484	19,296	29,487	47,399
Gas oil ..			302,784	304,181	270,579	316,824
Diesel oil ..	712,583	777,040	214,957	203,644	161,776	204,259
Fuel oil ..			613,370	806,795	878,631	857,922
Lubricating oil ..	45,540	25,816	38,113	35,448	31,900	34,367
Grease ..	372	324	469	543	475	563
Petroleum jelly ..	300	242	430	428	277	396
Ozokerite, etc. ..	409	108	521	468	281	2,395
Paraffin wax ..	1,549	1,458	2,700	2,018	1,558	431
Natural asphalt ..	6,822	4,707	3,784	3,023	869	1,130
Other asphalt ..	23,781	35,759	50,103	51,731	43,761	41,606
<b>Finland (total imports)—</b>						
Motor spirit ..	196,368	213,079	239,755	261,903	279,775	298,832
Kerosine ..	15,034	15,494	19,348	18,476	19,947	19,413
do. Power ..	27,927	21,217	46,988	33,822	42,664	51,060
Fuel oil ..	191,457	110,397	155,559	176,111	264,079	326,617
Lubricating oil ..	21,358	12,859	19,450	27,521	11,962	11,747
Petroleum jelly ..	607	55	131	164	90	99
Paraffin wax ..	1,663	1,184	1,306	2,555	424	816
Asphalt and tar ..	13,384	21,095	42,887	37,553	29,405	28,968
<b>France—</b>						
Crude petroleum ..	7,372,981	11,620,331	13,910,096	17,787,630	20,886,646	21,653,085
Aviation spirit ..	39,324	26,937	36,820	45,067	55,534	58,827
Motor spirit ..	191,164	82,334	21,658	116,066	68,815	77,130
Kerosine ..	279	2,500	90	2,374	4,557	5,370
Lubricating oil ..	78,007	64,494	63,092	161,280	66,391	32,996
Fuel oil ..	598,839	288,250	152,725	114,681	178,414	111,670
Gas oil ..	84,562	95,626	165,153	72,540	130,916	59,655
Road oil, etc. ..	1,827	2,268	468	1,392	38,005	1,230
Petroleum coke ..	58,917	42,020	20,189	39,621	52,776	31,658
Paraffin wax ..	5,561	4,967	699	4,954	2,772	1,593
Ozokerite and ceresin ..	1,234	1,016	1,690	4,329	2,580	5,119
Petroleum jelly ..	30	12	60	66	51	40
Asphalt and bitumen ..	508	2,519	2,829	6,974	4,281	1,874

(a) Information not available.

(b) January to October only.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Germany (Federal)—</b>						
Crude petroleum ..	247,329	1,068,752	1,902,839	3,154,889	3,477,072	4,488,239
Motor spirit ..	562,304	393,003	163,984	121,417	128,713	76,487
Kerosine ..	29,079	15	3,147	1	81	95
Gas oil ..	583,982	617,590	514,804	238,810	370,489	603,011
Fuel oil ..	66,472	45,374	63,900	77,868	130,648	172,649
Lubricating oil, etc. ..	2,181	5,325	11,820	21,747	24,865	56,327
Paraffin wax ..	1,011	13,779	3,697	2,267	1,131	2,015
Ozokerite, etc. ..	1	862	166	380	341	660
Asphalt ..	28	2,125	3,893	4,204	2,872	4,346
<b>Greece—</b>						
Motor spirit ..	140,328	172,900	224,267	245,550	237,937	244,846
Kerosine ..	21,294	37,637	72,450	80,676	93,120	85,396
Fuel oil and diesel oil ..	512,046	639,661	755,710	808,212	885,169	885,742
Other oils and greases ..	16,236	21,195	15,807	12,616	14,789	18,239
Petroleum jelly ..	46	176	69	100	113	162
Asphalt and bitumen ..	14,944	5,910	21,520	14,985	16,810	7,046
<b>Iceland—</b>						
Aviation spirit ..	28,319	57,815	17,152	15,326	(a)	(a)
Motor spirit ..			24,588	16,909		
Kerosine ..	2,802	3,987	3,170	1,883		
Gas oil and fuel oil ..	91,386	119,866	135,769	136,107		
Lubricating oil ..	2,313	2,661	3,245	2,919		
Greases ..	90	116	64	123		
Paraffin wax ..	21	57	33	95		
Petroleum jelly ..	(a)	3	—	4		
Asphalt ..	37	483	438	707		
<b>Italy—</b>						
Crude petroleum ..	1,745,639	2,442,256	4,483,992	6,698,687	9,725,153	12,647,557
Motor spirit ..	44,160	9,926	21,632	34,440	17,153	8,571
Kerosine ..	16,608	2,273	6,366	190	15	70
Gas oil ..	39,862	8,385	4,546	12,735	10,758	9,157
Fuel oil ..	727,116	668,141	877,255	757,328	594,539	617,352
Lubricating oil ..	49,564	73,419	94,272	72,210	49,445	48,201
Petroleum jelly ..	459	912	674	2,013	598	998
Paraffin wax ..	5,925	10,870	20,641	12,039	13,243	18,032
Bitumen ..	3,566	301	47	78	43	170
Petroleum coke ..	9,604	16,325	19,830	45,776	13,724	36,739
Ozokerite and ceresin ..	(a)	(a)	(a)	(a)	409	724
Asphalt ..	3,010	1	450	1,241	1,106	823
<b>Netherlands—</b>						
Crude petroleum ..	1,172,327	2,080,870	4,724,254	6,070,214	6,712,660	6,787,765
Motor spirit ..	210,962	250,141	177,492	129,344	138,200	173,313
Kerosine ..	232,008	264,197	177,674	160,459	149,944	148,509
Gas oil ..	291,968	264,184	381,691	222,688	339,525	326,500
Fuel oil ..	387,727	461,851	410,625	440,916	671,922	1,137,454
Lubricating oil ..	64,353	67,975	88,052	91,186	63,016	82,501
Greases ..	1,960	300	315	156	35	586
Petroleum jelly ..	372	542	1,435	1,727	951	839
Paraffin wax ..	6,673	5,573	21,141	15,158	22,359	6,700
Ozokerite and ceresin ..	236	324	217	243	117	203
Asphalt, bitumen, etc. ..	370	271	314	473	186	731
<b>Norway—</b>						
Crude petroleum ..	—	—	16,053	57,433	47,651	73,471
Motor spirit ..	202,349	270,935	244,281	253,683	270,762	304,924
White spirit ..	6,970	5,815	8,609	9,520	6,462	8,592
Kerosine ..	25,027	34,292	37,497	47,084	49,523	77,153
Diesel oil ..	273,119	178,954	194,188	242,758	279,042	277,745
Gas oil ..	305,723	336,544	344,991	376,984	412,054	427,018
Fuel oil ..	472,093	464,696	531,209	769,078	868,574	955,243
Lubricating oil ..	23,164	32,678	28,538	32,661	23,904	27,136
Paraffin wax ..	1,733	2,152	1,110	2,384	1,435	1,754

(a) Information not available.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Norway—</b>						
<i>(cont.)</i>						
Petroleum jelly ..	774	1,280	814	1,272	1,132	1,076
Pitch .. .. .	10	101	3,694	5,805	3,619	5,500
Petroleum coke ..	(a)	(a)	27,634	36,580	40,010	37,275
Asphalt, etc. ..	33,608	29,674	36,784	28,228	17,293	18,403
<b>Poland—</b>						
Crude petroleum ..	(a)	(a)	(a)	(a)	(a)	(a)
Motor spirit .. ..	(a)	(a)	(a)	(a)	(a)	(a)
Kerosine .. .. .	(a)	(a)	(a)	(a)	(a)	(a)
Gas oil .. .. .	} (a)	(a)	(a)	(a)	(a)	(a)
Lubricating oil ..						
<b>Portugal—</b>						
Crude petroleum ..	320,086	274,990	260,431	378,276	468,304	130,082
Motor spirit .. ..	82,465	78,382	61,579	76,521	69,304	127,022
Kerosine .. .. .	57,163	49,191	52,444	62,779	61,373	115,593
Gas oil and diesel oil ..	31,788	49,478	64,369	59,506	62,146	160,890
Fuel oil .. .. .	67,424	54,005	107,139	128,754	130,026	256,748
Lubricating oil ..	19,272	12,684	10,290	20,382	16,400	14,018
Other mineral oils ..	1,729	1,671	1,741	1,331	546	660
Petroleum jelly ..	124	117	73	36	114	118
Paraffin wax .. ..	1,833	1,855	1,504	2,093	1,419	1,371
Natural asphalt ..	21,821	488	7,686	15,081	14,218	19,744
<b>Spain—</b>						
Crude petroleum, heavy	—	—	279,745	64,106	—	(a)
do. light .. .. .	—	—	—	281,219	880,002	(a)
Motor spirit .. ..	355,623	414,670	401,465	426,277	365,096	(a)
Kerosine .. .. .	6,143	18,384	21,763	10,948	12,136	8,829
Diesel oil .. .. .	170,798	220,419	214,958	196,422	144,699	(a)
Lubricating oil ..	59,441	41,315	50,017	67,530	44,701	(a)
Fuel oil .. .. .	349,285	433,719	370,072	403,848	290,782	(a)
Petroleum jelly ..	272	384	400	487	371	907
Paraffin wax .. ..	1,150	1,439	1,266	2,046	2,099	1,293
Asphalt .. .. .	32,236	29,124	61,609	72,737	58,376	18,043
<b>Sweden—</b>						
Crude petroleum ..	565,890	459,171	888,718	1,026,558	1,164,990	1,399,000
Motor spirit .. ..	553,511	528,013	530,388	701,334	714,459	735,785
Kerosine .. .. .	173,101	166,326	199,756	266,355	275,103	334,899
Fuel oil and gas oil ..	1,837,270	1,727,581	1,939,325	2,632,608	2,786,617	2,866,647
Lubricating oil ..	59,552	31,872	62,411	72,921	58,539	57,204
Petroleum jelly ..	786	412	481	535	360	400
Other oils .. .. .	363	202	319	1,680	1,102	1,184
Paraffin wax .. ..	5,864	6,472	6,920	8,636	2,051	4,591
Ozokerite and ceresin ..	1,451	933	927	1,231	837	1,059
Asphalt .. .. .	3,922	2,253	2,858	5,531	2,231	2,526
Pitch .. .. .	11,984	3,655	5,174	10,384	4,748	7,928
Petroleum coke ..	—	—	5,410	6,071	4,184	8,123
<b>Switzerland—</b>						
Motor spirit .. ..	235,473	262,509	297,586	311,699	345,331	381,457
Kerosine .. .. .	43,144	18,146	65,276	87,594	119,585	100,939
Fuel oil .. .. .	397,457	506,310	585,666	611,409	651,906	704,229
Lubricating oil and grease .. .. .	30,215	22,447	39,199	52,930	28,128	27,430
Other oils .. .. .	94,051	74,153	91,529	90,598	101,241	114,279
Petroleum jelly ..	630	357	1,217	1,339	306	533
Paraffin wax and ceresin	2,630	1,579	4,835	3,215	1,739	2,128
Asphalt and bitumen ..	664	421	818	680	712	689

(a) Information not available.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Yugoslavia—</b>						
Crude petroleum ..			398,740	378,041	311,355	447,271
Aviation spirit ..			14,331	11,277	13,219	22,839
Motor spirit ..			39,748	25,243	3,016	31,323
Kerosine ..			(a)	(a)	(a)	1,077
Aviation turbine fuel ..			(a)	(a)	(a)	14,580
Fuel oils ..			20	83	(a)	7,806
Lubricating oil ..	(a)	(a)	16,378	18,471	14,091	17,804
Greases ..			6	—	59	31
Paraffin wax ..			1,343	1,027	833	1,015
Petroleum jelly ..			270	589	252	113
Bitumen ..			651	—	5,717	(a)
Petroleum coke ..			968	2,097	1,911	2,872
<b>Algeria—</b>						
Aviation spirit ..	7,757	6,832	4,517	6,517	6,452	7,099
Motor spirit ..	145,512	156,617	189,227	202,866	216,233	237,667
Kerosine ..	55,034	47,833	55,501	58,394	62,897	68,329
Gas oil ..	88,343	96,089	125,465	143,239	169,691	189,694
Fuel oil and diesel oil	130,868	151,780	185,020	238,424	207,776	277,445
Lubricating oil ..	13,924	25,115	22,845	25,901	19,807	16,578
Road oil, etc. ..	25,141	26,276	33,470	35,857	37,892	38,001
Paraffin wax ..	443	350	389	605	310	376
Petroleum jelly ..	8	16	9	38	41	24
Ozokerite and ceresin ..	22	25	5	14	4	—
Asphalt, etc., natural ..	83	29	611	248	85	53
Mastic asphalt ..	1,148	3,184	2,786	3,962	3,938	4,055
<b>Angola—</b>						
Motor spirit ..	15,800	16,140	21,858	(a)	32,687	30,381
Kerosine ..	1,900	2,296	2,619		5,071	3,953
Gas oil and fuel oil	5,700	7,897	8,705		18,651	20,512
Lubricating oil ..	1,540	1,843	2,434		4,964	3,599
<b>Belgian Congo—</b>						
Motor spirit, etc. ..	57,251	88,150	103,669	121,360	134,058	170,080
Kerosine ..	5,678	14,006	12,520	19,524	24,042	22,285
Fuel oil, etc. ..	12,142	29,654	31,932	56,131	53,848	73,386
Lubricating oil and greases ..	11,678	9,487	7,731	14,741	21,218	13,898
Petroleum jelly ..	(a)	(a)	3	41	86	41
Paraffin wax ..	(a)	(a)	2	21	100	68
Asphalt ..	451	1,362	3,559	2,884	5,303	6,034
<b>Cameroon (French)—</b>						
Motor spirit ..	17,034	19,308	23,235	29,355	42,295	37,055
Kerosine ..	4,458	4,117	5,841	5,234	10,913	3,818
Fuel oil ..	3,303	5,707	10,163	10,589	17,112	14,799
Lubricating oil ..	1,747	1,792	1,748	2,866	5,718	1,601
<b>Canary Islands—</b>						
Crude and refined petroleum ..	1,921,173	2,014,628	2,142,101	2,527,985	2,478,624	(a)
<b>Ceuta—</b>						
Petroleum products (b)	161,242	196,954	104,851	410,320	400,972	(a)
<b>Egypt—</b>						
Crude petroleum ..	—	—	2	58,936	94,880	45,686
Motor spirit ..	19,741	32,216	70,584	88,714	75,406	78,322
White spirit ..	808	1,048	461	416	623	652
Kerosine ..	370,935	448,019	434,068	405,458	475,930	487,209
Fuel oil ..	622,751	474,058	362,148	473,216	377,041	246,209
Gas oil ..	138,929	150,615	124,215	135,821	146,255	102,053
Diesel oil ..	132,207	102,330	117,041	151,873	137,879	107,306
Lubricating oil ..	36,050	32,452	32,602	42,832	30,708	29,387
Petroleum jelly ..	473	346	506	441	416	524
Paraffin wax ..	628	1,026	419	1,549	731	543
Ozokerite and ceresin ..	35	27	45	55	43	31
Asphalt and bitumen ..	1,889	856	554	3,579	198	77

(a) Information not available.

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

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
Ethiopia (b)—						
Motor spirit .. ..	7,344	8,377	6,870	18,700	22,225	(a)
Kerosine .. ..	1,527	1,400	1,000	1,500	980	(a)
Fuel, oil, gas oil, etc. ..	11,094	11,812	9,400	1,470	2,638	(a)
French Equatorial Africa—						
Aviation spirit .. ..	} 20,953	} 33,894	} 5,329	} 13,528	} 12,240	} 8,761
Motor spirit .. ..						
Kerosine .. ..	2,336	4,799	4,138	7,001	10,111	8,707
Gas oil .. ..	} 6,584	} 12,149	} 8,539	} 13,957	} 21,133	} 17,035
Fuel oil .. ..						
Lubricating oil .. ..	2,228	3,093	1,888	5,782	6,831	10,171
Grease .. ..	(a)	179	3,539	4,950	5,823	3,361
French Somaliland—						
Motor spirit .. ..	59	996	2,718	626	3,947	882
Kerosine .. ..	1,051	206	725	174	1,881	9,459
Lubricating oil .. ..	1,347	1,285	425	95	(a)	315
French Togoland—						
Crude petroleum .. ..	82	55	79	108	(a)	(a)
Motor Spirit .. ..	1,569	1,851	2,853	4,404	5,888	4,154
Kerosine .. ..	1,198	1,997	1,405	3,340	5,293	3,306
Fuel oil .. ..	889	1,060	1,282	999	2,871	2,253
Lubricating oil .. ..	342	128	255	427	(a)	(a)
French West Africa—						
Aviation spirit .. ..	(a)	(a)	39,565	28,345	20,601	9,515
Motor spirit .. ..	65,551	65,787	67,812	84,346	117,992	122,582
Kerosine .. ..	12,406	26,180	34,349	22,243	37,740	37,652
Gas oil .. ..	(a)	26,475	45,372	43,896	41,542	45,092
Diesel oil .. ..	(a)	236,013	268,295	156,489	(a)	(a)
Fuel oil .. ..	(a)	83,461	475,273	843,465	42,807	68,247
Lubricating oil .. ..	(a)	25,491	37,400	23,916	13,654	12,141
Liberia—						
Aviation spirit .. ..	(a)	1,300	500	} (a)	} (a)	} (a)
Motor spirit .. ..	(a)	5,000	6,000			
Kerosine .. ..	(a)	700	2,600			
Gas oil .. ..	(a)	2,500	5,900			
Madagascar—						
Motor spirit .. ..	19,914	18,000	(a)	(a)	36,000	42,000
Kerosine .. ..	2,850	4,000	(a)	(a)	9,100	12,000
Fuel oil, gas oil, etc. ..	4,532	} 7,000	(a)	(a)	} 17,600	} 20,307
Road oil, etc. .. ..	4,011					
Lubricating oil .. ..	3,866	2,000	(a)	(a)	6,300	5,700
Asphalt and bitumen ..	43	(a)	(a)	(a)	(a)	(a)
Melilla—						
Petroleum products ..	12,637	10,654	13,732	16,634	18,862	(a)
Morocco (French)—						
Crude petroleum .. ..	3	—	2	(a)	20	(a)
Motor spirit .. ..	146,515	166,042	205,742	204,326	278,100	293,000
Kerosine .. ..	21,271	23,506	24,595	24,691	38,954	50,000
Gas oil .. ..	55,310	54,336	83,848	85,615	104,742	133,677
Fuel oil .. ..	150,093	123,082	160,808	178,792	248,638	196,840
Lubricating oil .. ..	8,319	24,168	11,544	10,640	19,818	(a)
Grease .. ..	(a)	(a)	1,451	1,129	(a)	(a)
Paraffin wax .. ..	1,633	3,720	3,574	3,744	3,924	(a)
Asphalt and bitumen ..	8,547	23,060	29,792	(a)	39,367	45,359
Morocco (Spanish)—						
Crude petroleum .. ..	(a)	(a)	(a)	(a)	(a)	(a)
Motor spirit .. ..	(a)	(a)	(a)	(a)	(a)	(a)
Kerosine .. ..	(a)	(a)	(a)	(a)	(a)	(a)
Gas oil .. ..	(a)	(a)	(a)	(a)	(a)	(a)
Fuel oil .. ..	(a)	(a)	(a)	(a)	(a)	(a)
Lubricating oil and grease .. ..	(a)	(a)	(a)	(a)	(a)	(a)
Paraffin wax .. ..	(a)	(a)	(a)	(a)	(a)	(a)
Asphalt .. ..	(a)	(a)	(a)	(a)	(a)	(a)

(a) Information not available.

(b) Years ended September 10.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Mozambique—</b>						
Motor spirit .. ..	20,573	21,551	22,919	24,845	26,700	28,645
Kerosine .. ..	7,341	8,931	10,323	10,146	12,856	13,337
Fuel oil .. ..	12,295	17,458	18,490	24,227	27,055	27,657
Lubricating oil .. ..	2,352	2,796	3,041	2,984	3,610	4,132
Paraffin wax .. ..	30	39	46	27	23	(a)
Petroleum jelly .. ..	11	22	29	41	21	(a)
Asphalt and bitumen (c)	961	852	1,388	2,296	2,810	(a)
<b>Portuguese Guinea—</b>						
Motor spirit .. ..	1,071	1,035	1,173	1,235	(a)	(a)
Kerosine .. ..	379	475	501	358	(a)	(a)
Fuel oil .. ..	415	216	360	379	(a)	(a)
Lubricating oil .. ..	25	228	97	143	(a)	(a)
<b>Reunion—</b>						
Motor spirit .. ..	2,656	2,384	4,232	5,753	6,335	4,413
Kerosine .. ..	497	1,006	1,235	1,407	2,402	753
Heavy oils .. ..	486	129	2,601	3,272	3,020	(a)
Grease .. ..	—	—	(a)	(a)	1,308	723
<b>Tunis—</b>						
Crude petroleum .. ..	(a)	10,703	—	—	—	—
Motor spirit .. ..	50,264	60,028	68,235	68,330	80,300	80,190
Kerosine .. ..	28,023	33,928	27,632	31,438	37,300	34,624
Fuel oil .. ..	16,532	41,141	59,410	65,268	79,000	130,119
Gas oil .. ..	53,148	56,796	64,121	70,716	86,500	82,015
Lubricating oil .. ..	10,577	9,463	8,208	10,403	8,700	5,534
Petroleum jelly .. ..	3	251	—	139	(a)	39
Paraffin wax .. ..	105	(a)	(a)	(a)	(a)	—
<b>Costa Rica (b)—</b>						
Motor spirit .. ..	22,503	21,248	29,000	27,500	42,000	(a)
Kerosine .. ..	137	2,164	4,200	5,000	(a)	(a)
Diesel oil .. ..	28,022	24,707	20,600	30,600	31,000	(a)
Fuel oil .. ..	38,410	33,185	38,000	37,800	(a)	(a)
Lubricating oil .. ..	1,821	3,204	} 2,100	2,000	(a)	(a)
Grease .. ..	170	111			(a)	(a)
Petroleum jelly .. ..	(a)	(a)	(a)	(a)	(a)	(a)
Paraffin wax .. ..	1,145	394	(a)	(a)	(a)	(a)
Asphalt .. ..	1,064	1,870	(a)	(a)	(a)	(a)
<b>Cuba (b)—</b>						
Crude petroleum .. ..	193,356	230,137	237,782	189,450	412,000	(a)
Aviation spirit .. ..	22,000	19,000	25,000	(a)	32,000	(a)
Motor spirit .. ..	177,281	221,551	278,568	353,730	369,000	(a)
Kerosine .. ..	316	9	9	1,035	(a)	(a)
Fuel oil .. ..	1,064,306	1,081,707	1,147,848	1,208,133	1,355,375	(a)
Gas oil .. ..	13,826	13,079	22,247	20,632	(a)	(a)
Lubricating oil .. ..	23,805	20,332	25,861	34,558	31,360	(a)
Residual oils .. ..	12,404	16,327	32,155	—	(a)	(a)
Petroleum jelly .. ..	695	762	869	693	(a)	(a)
Greases .. ..	1	—	—	—	(a)	(a)
Paraffin wax .. ..	2,260	1,819	3,479	2,517	(a)	(a)
Asphalt rock .. ..	26	23	28	29	(a)	(a)
Other asphalt .. ..	294	76	171	143	(a)	(a)
Bitumen .. ..	—	9	—	2	(a)	(a)
Petroleum coke .. ..	386	536	46	2,610	(a)	(a)
<b>Dominican Republic (b)—</b>						
Motor spirit .. ..	39,361	35,170	36,682	56,744	57,694	61,530
Kerosine .. ..	7,042	6,254	6,283	9,877	8,185	8,119
Fuel oil .. ..	59,347	65,230	58,522	33,256	104,318	109,580
Lubricating oil .. ..	7,437	3,492	2,636	4,378	7,066	5,064
Other oils .. ..	3,972	2,593	2,363	2,369	12,060	11,433

(a) Information not available.

(c) Including coal tar and pitch.

(b) Total imports.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>French West Indies—</b>						
<b>Guadeloupe—</b>						
Motor spirit .. .. .	9,231	9,269	13,916	13,651	10,680	(a)
Kerosine .. .. .						
Fuel oil and lubricating oil .. .. .	6,336	2,615	(a)	9,410	6,500	(a)
<b>Martinique—</b>						
Motor spirit .. .. .	7,771	8,511	8,857	10,028	11,399	(a)
Kerosine .. .. .	1,350	1,998	1,919	4,620	4,585	(a)
Gas and fuel oil .. .. .	(a)	7,182	7,389	11,282	12,733	(a)
Lubricating oil .. .. .	461	1,038	(a)	(a)	1,068	(a)
<b>Guatemala—</b>						
Crude petroleum, etc.	174,776	162,580	194,991	166,296	133,042	(a)
Aviation spirit .. .. .	6,456	7,560	5,678	7,880	5,731	(a)
Motor spirit .. .. .	31,744	36,741	39,010	35,244	52,909	(a)
Kerosine .. .. .	5,800	5,877	6,943	9,337	11,117	(a)
Diesel oil .. .. .	26,349	18,272	19,145	19,782	65,497	(a)
Fuel oil .. .. .	57	323	1,057	1,363	1,769	(a)
Lubricating oil .. .. .	3,217	3,406	2,353	4,172	2,450	(a)
Grease .. .. .	255	204	217	231	268	(a)
Asphalt .. .. .	3,172	763	14,449	2,234	8,292	(a)
Paraffin wax, etc.	1,596	1,300	2,036	2,303	2,081	(a)
<b>Haiti (b)—</b>						
Motor spirit .. .. .	12,895	16,456	16,465	18,276	21,015	(a)
Kerosine .. .. .	3,938	2,872	2,559	2,911	3,006	(a)
Fuel oil, etc. .. .. .	13,316	(a)	15,933	15,093	10,622	(a)
Lubricating oil .. .. .	856	751	757	(a)	(a)	(a)
<b>Honduras (c)—</b>						
Motor spirit .. .. .	(a)	(a)	16,600	21,000	(a)	(a)
Kerosine, etc. .. .. .						
Fuel oil .. .. .						
Lubricating oil .. .. .						
<b>Mexico—</b>						
Crude petroleum .. .. .	46,579	6,406	3	740	—	24
Motor spirit .. .. .	182,507	148,946	142,680	111,776	172,817	263,835
Kerosine .. .. .	1,580	3,996	6,664	1,452	1,683	5,048
Gas oil .. .. .	10,419	18,392	18,103	11,515	13,090	17,963
Fuel oil .. .. .	151,931	137,855	117,204	52,474	201,665	369,351
Lubricating oil .. .. .	41,424	49,543	58,685	61,479	69,929	66,516
Grease .. .. .	3,411	4,430	4,894	3,871	4,644	3,479
Paraffin wax .. .. .	16,243	23,047	30,856	25,544	34,638	39,316
Petroleum jelly .. .. .	598	780	1,023	1,851	463	881
Asphalt .. .. .	3,987	8,600	6,342	4,854	10,243	9,734
Asphalt rock .. .. .	2,492	583	325	340	1,062	980
Natural gas ( <i>million cu. ft.</i> ) .. .. .	18,203	16,641	22,678	19,419	18,843	(a)
<b>Netherlands West Indies—</b>						
Crude petroleum .. .. .	38,381,729	37,258,468	41,513,562	42,554,686	41,919,669	36,108,042
Aviation spirit .. .. .	199,020	220,660	202,218	(a)	(a)	(a)
Motor spirit .. .. .	244	8	4,652	(a)	(a)	(a)
Kerosine .. .. .	341	167	11,121	(a)	(a)	(a)
Fuel oil .. .. .	2,205,130	1,998,781	1,958,553	1,756,747	1,804,410	(a)
Diesel oil .. .. .	30,980	131,105	27,456	170,459	142,938	(a)
Gas oil .. .. .	8,794	55,992	33,605			
Lubricating oil .. .. .	10,422	7,631	5,405	(a)	(a)	(a)
Asphalt .. .. .	28	15	36	(a)	(a)	(a)
<b>Nicaragua (d)—</b>						
Motor spirit .. .. .	16,000	(a)	(a)	(a)	(a)	(a)
Kerosine .. .. .	3,300					
Fuel oil .. .. .	22,000					
Lubricating oil .. .. .	1,900					

(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	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Panama—</b>						
Motor spirit .. ..	42,000	39,000	48,000	57,000	62,000	(a)
Kerosine .. ..	10,000	11,000	13,000	13,000	17,000	(a)
Diesel oil .. ..	19,000	17,000	23,000	24,000	35,000	(a)
Fuel oil .. ..	82,000	79,000	83,000	84,000	129,000	(a)
Lubricating oil .. ..	1,500	2,200	2,700	2,400	2,500	(a)
<b>St. Pierre and Miquelon—</b>						
Motor spirit .. ..			408	479		
Gas oil and fuel oil .. ..	1,020	780	361	464	1,256	2,515 15
<b>Salvador—</b>						
Motor spirit .. ..	19,620	22,820	30,850	37,000		
Kerosine .. ..	3,462	4,230	4,843	6,500		
Diesel oil .. ..	11,081	9,328	10,899	13,000		
Fuel oil .. ..	36,522	41,442	42,350	(a)	(a)	(a)
Lubricating oil and grease .. ..	1,426	1,278	1,299	4,700		
Paraffin wax, etc. .. ..	459	584	27	(a)		
Asphalt .. ..	1,095	1,628	904	5,400		
<b>United States—</b>						
Crude petroleum .. ..	18,369,642	22,118,025	24,676,627	25,353,445	29,643,665	33,287,299
Aviation spirit .. ..	113	380	2	—	13,198	2,244
Motor spirit, etc. .. ..	48,863	1,711	22,661	46,143	191,968	56,833
Naphtha .. ..	23	151	3,470	9,092	11,171	8,286
Kerosine .. ..	19,381	2	34,329	23	3,637	2
Fuel oil .. ..	8,219,709	11,287,386	17,872,337	17,766,055	19,270,969	20,356,664
Gas oil and diesel oil .. ..	346,209	320,888	381,996	394,453	489,980	680,179
Unfinished distillates and topped oils .. ..	24,954	617,395	1,051,685	737,116	441,113	281,784
Lubricating oil, etc. .. ..	14,316	30	105	37	112	68
Road oil, etc. .. ..	30,526	16,674	12,785	17,699	12,512	8,456
Paraffin wax, etc. .. ..	3,445	106	85	27	1	130
Ozokerite and ceresin .. ..	85	8	47	36	220	175
Petroleum jelly .. ..	1	—	—	1	3	4
Asphalt (petroleum) .. ..	220,693	174,028	275,856	377,094	427,511	401,977
Asphalt and bitumen (natural) .. ..	5,951	3,669	5,235	5,629	3,751	2,410
Natural gas ( <i>million cu. ft.</i> ) (b) .. ..	1	—	—	—	6,886	9,329
<b>Argentina—</b>						
Crude petroleum .. ..	1,714,192	1,476,604	2,907,050	2,773,100	2,965,759	3,542,521
Motor spirit .. ..	211,621	137,372	116,721	32,000	38,669	47,745
Kerosine .. ..	10,000	42,000	(a)	(a)	25,861	9,055
Gas oil .. ..	14,180	12,700	(a)	(a)	71,317	86,009
Fuel oil .. ..	2,575,078	2,368,788	2,017,229	2,705,977	2,927,329	2,046,758
Diesel oil .. ..	76,374	85,035	61,710	45,077	26,655	150,692
Lubricating oil .. ..	20,221	24,458	42,949	41,325	49,741	64,067
<b>Bolivia—</b>						
Crude petroleum, etc. .. ..	65,846	70,916	56,755	68,519	83,558	71,423
Aviation spirit .. ..	4,699	6,011	4,673	5,754	4,384	7,000
Motor spirit .. ..	31,987	14,044	5,185	8,140	6,664	18,576
Kerosine .. ..	3,499	3,044	233	309	283	5,964
Lubricating oil and grease .. ..	2,715	2,044	2,454	4,968	4,606	4,006
Paraffin wax .. ..	1,276	1,535	1,038	2,003	1,223	1,042
Tar, pitch, etc. .. ..	985	747	242	415	1,510	88
<b>Brazil (total imports)—</b>						
Crude petroleum .. ..	—	—	58,000	19,294	17,470	29,903
Aviation spirit .. ..	(a)	(a)	(a)	(a)	186,566	7,000
Motor spirit .. ..	1,114,523	1,392,507	1,592,454	1,944,858	2,182,130	2,391,072
Kerosine .. ..	189,081	205,018	232,748	276,101	347,293	401,647

(a) Information not available.

(b) Revised.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Brazil—</b>						
<i>(cont.)</i>						
Gas oil .. .. .	10,761	9,901	} 565,000	{ (a)	(a)	—
Diesel oil .. .. .	420,784	422,156				
Fuel oil .. .. .	1,278,901	1,363,200	1,703,000	2,037,006	2,274,067	} 3,423,149
Lubricating oil .. .. .	94,193	75,304	113,701	180,534	146,201	
Transformer oil .. .. .	1,339	2,102	(a)	5,684	1,772	873
Petroleum jelly .. .. .	493	683	(a)	2,606	510	225
Greases .. .. .	550	503	(a)	813	594	149
Paraffin wax .. .. .	3,166	2,817	(a)	10,468	6,468	4,120
Asphalt and bitumen .. .. .	19,217	30,297	53,037	81,348	26,295	(a)
<b>Chile—</b>						
Aviation spirit .. .. .	10,545	13,059	7,473	5,377	3,143	15,573
Motor spirit .. .. .	211,898	234,472	214,855	240,458	263,610	264,908
Kerosine .. .. .	30,000	35,636	42,000	61,000	64,200	73,100
Diesel oil .. .. .	160,683	103,025	86,610	129,915	101,373	116,136
Fuel oil .. .. .	760,229	585,812	(a)	781,000	(a)	(a)
Residual fuel oil .. .. .	866,970	824,765	488,166	890,707	666,308	788,349
Lubricating oil .. .. .	20,350	21,556	17,740	32,170	26,350	22,657
Petroleum jelly .. .. .	274	314	(a)	(a)	(a)	(a)
Greases .. .. .	1,163	924	800	1,694	1,455	987
Paraffin wax .. .. .	5,482	8,590	5,739	7,947	8,726	6,033
Tar and pitch .. .. .	3,438	(a)	(a)	(a)	(a)	(a)
<b>Colombia—</b>						
Aviation spirit .. .. .	(a)	17,000	32,000	(a)	(a)	(a)
Motor spirit .. .. .	172,820	133,000	123,000	(a)	(a)	(a)
Kerosine .. .. .	25	45	(a)	(a)	(a)	(a)
Fuel oil and gas oil .. .. .	57,585	21,930	} 40,000	(a)	(a)	(a)
Diesel oil .. .. .	4,281	4,290				
Lubricating oil .. .. .	7,797	9,163	1,260	(a)	(a)	(a)
Petroleum jelly .. .. .	(a)	163	(a)	(a)	(a)	(a)
Paraffin wax .. .. .	9,117	10,590	(a)	(a)	(a)	(a)
<b>Ecuador—</b>						
Aviation spirit .. .. .	3,462	4,163	3,141	(a)	(a)	(a)
Motor spirit .. .. .	618	3,417	4,314	(a)	(a)	(a)
Lubricating oil and greases .. .. .	2,288	2,443	2,305	(a)	(a)	(a)
Asphalt and bitumen .. .. .	(a)	(a)	(a)	(a)	(a)	(a)
<b>French Guiana—</b>						
Motor spirit .. .. .	} 1,671	1,786	772	} 3,799	5,205	4,162
Kerosine .. .. .			373			
Fuel oil, etc. .. .. .			804			
<b>Paraguay—</b>						
Motor spirit .. .. .	} (a)	(a)	14,000	9,500	18,800	(a)
Kerosine .. .. .			3,500	3,200	6,000	(a)
Fuel oil, etc. .. .. .			2,600	2,300	5,500	(a)
Gas oil .. .. .			(a)	(a)	(a)	(a)
Lubricating oil .. .. .			1,100	600	1,800	(a)
Paraffin wax .. .. .			(a)	(a)	(a)	(a)
Asphalt, tar, etc. .. .. .			(a)	(a)	(a)	(a)
<b>Peru—</b>						
Crude petroleum .. .. .	—	—	—	—	—	(a)
Aviation spirit .. .. .	14,971	30,709	30,266	50,784	29,493	(a)
Kerosine .. .. .	—	—	—	—	16	(a)
Lubricating oil .. .. .	4,690	5,498	6,548	8,456	10,315	(a)
Petroleum jelly .. .. .	84	144	46	109	74	(a)
Paraffin wax .. .. .	(a)	4,196	3,963	1,917	4,193	(a)
Asphalt and bitumen .. .. .	70	154	69	21	16	(a)
Greases .. .. .	321	357	5	625	710	(a)
Ozokerite .. .. .	2	2	—	10	1	(a)

(a) Information not available.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Uruguay—</b>						
Crude petroleum ..	372,166	537,439	325,189	878,104	1,040,000	1,185,000
Motor spirit, etc. ..	25,312	29,000	30,059	18,800	21,100	6,600
Kerosine .. ..	1,481	—	—	—	1,500	—
Gas oil .. ..	2,047	985	—	—	(a)	(a)
Diesel oil .. ..	3,951	6,319	4,306	3,440	32,400	11,900
Fuel oil .. ..	45,055	19,691	438	38,717	132,200	21,000
Lubricating oil and greases .. ..	9,204	8,561	9,367	15,452	(a)	(a)
Paraffin wax .. ..	229	87	406	—	(a)	(a)
<b>Venezuela—</b>						
Motor spirit .. ..	45,071	34,861	36,012	40,607	}	(a)
White spirit .. ..	29	27	8	7		
Kerosine .. ..	39,930	1,399	—	—		
Gas oil .. ..	6,304	3,806	117	—		
Fuel oil .. ..	20,996	5,938	—	1		
Lubricating oil .. ..	38,179	35,303	35,431	44,601		
Paraffin wax .. ..	3,101	3,449	4,842	4,558		
Petroleum jelly .. ..	157	203	204	157		
Natural gas .. ..	(a)	(a)	(a)	(a)		
Asphalt, bitumen, etc.	3,013	21,115	(a)	(a)		
<b>Afghanistan—</b>						
Motor spirit .. ..	18,820	15,033	(a)	(a)	(a)	(a)
Kerosine .. ..	1,782	636	(a)	(a)	(a)	(a)
Diesel oil .. ..	1,500	3,800	(a)	(a)	(a)	(a)
Lubricating oil .. ..	2,100	840	(a)	(a)	(a)	(a)
<b>China—</b>						
Motor spirit .. ..	(a)	(a)	(a)	(a)	(a)	(a)
Kerosine .. ..	(a)	(a)	(a)	(a)	(a)	(a)
Fuel oil and diesel oils	(a)	(a)	(a)	(a)	(a)	(a)
Lubricating oil .. ..	(a)	(a)	(a)	(a)	(a)	(a)
Paraffin wax .. ..	(a)	(a)	(a)	(a)	(a)	(a)
Asphalt .. ..	(a)	(a)	(a)	(a)	(a)	(a)
<b>Formosa—</b>						
Motor spirit .. ..	}	(a)	244	14,417	6,870	(a)
Fuel oil .. ..			84,762	80,938	(a)	(a)
Lubricating oil .. ..			3,309	5,528	9,398	(a)
Paraffin wax .. ..			489	451	617	(a)
<b>French Indo-China—</b>						
Motor spirit .. ..	35,751	62,381	68,769	99,542	(a)	(a)
Kerosine .. ..	20,277	22,782	23,449	30,145	(a)	(a)
Fuel oil .. ..	12,846	20,331	19,595	}	(a)	(a)
Gas oil .. ..	4,383	9,280	7,010		57,434	(a)
Lubricating oil .. ..	5,326	6,484	5,226		5,647	(a)
<b>Indonesia—</b>						
Crude petroleum .. ..	904,000	1,634,000	1,379,000	758,000	2,311,000	2,243,000
Motor spirit .. ..	28,574	1,500	2,300	(a)	(a)	(a)
Kerosine .. ..	7,636	8,400	3,000	(a)	(a)	(a)
Fuel and gas oils .. ..	8,194	4,662	3,700	(a)	(a)	(a)
Lubricating oil .. ..	28,840	20,860	29,000	28,000	(a)	(a)
Asphalt .. ..	30,147	43,540	21,780	(a)	(a)	(a)
<b>Iran (b) (c)—</b>						
Crude petroleum .. ..	(a)	(a)	(a)	(a)	(a)	(a)
Motor spirit .. ..	1,300	(a)	(a)	149	(a)	(a)
Kerosine .. ..	5,979	(a)	(a)	3,181	(a)	(a)
Gas oil .. ..	1,441	(a)	(a)	—	(a)	(a)
Fuel oil .. ..	405	4	170	405	(a)	(a)
Lubricating oil .. ..	3,645	1,629	3,628	5,579	(a)	(a)
Greases .. ..	(a)	(a)	(a)	(a)	(a)	(a)
Paraffin wax .. ..	288	887	(a)	467	(a)	(a)
Petroleum jelly .. ..	123	226	206	276	(a)	(a)
Asphalt, tar and bitumen	3	—	—	(a)	(a)	(a)

(a) Information not available.

(c) Total imports.

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

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Iraq—</b>						
Crude petroleum ..	154,678	106,859	192,907	106,917	(a)	(a)
Motor spirit .. ..	31,357	23,935	25,279	28,087	(a)	(a)
Kerosine .. .. .	33,905	44,317	53,980	27,150	(a)	(a)
Fuel oil .. .. .	133,100	97,600	(a)	91,600	(a)	(a)
Lubricating oil ..	13,970	11,537	8,887	12,743	(a)	(a)
Greases .. .. .	205	222	118	207	(a)	(a)
Asphalt and bitumen ..	2,023	987	183	190	(a)	(a)
<b>Israel—</b>						
Crude petroleum ..		137,346	192,966	696,000	905,000	(a)
Aviation spirit .. ..		—	9,373	(a)		
Motor spirit .. .. .		92,547	115,088	50,000		
Kerosine .. .. .		61,730	67,566	14,200		
Fuel oils .. .. .	(a)	316,511	325,524	85,800		
Lubricating oils ..		8,694	9,121	13,700	(a)	(a)
Paraffin wax .. ..		624	437	(a)		
Petroleum jelly .. .		58	14	(a)		
Asphalt .. .. .		4,015	23,814	(a)		
Turpentine substitute		328	208	(a)		
<b>Japan—</b>						
Crude petroleum, ..	—	1,797	1,213,847	2,442,003	3,581,861	4,995,017
Aviation spirit .. ..	(a)	(a)	—	3,400	—	58,289
Motor spirit .. .. .	227,557	(a)	30,254	31,183	101,809	212,141
Kerosine .. .. .	—	(a)	4,134	41	59	3,273
Gas oil .. .. .			119,437	129,576	19,904	79,971
Fuel oil .. .. .			409,875	890,594	1,017,985	2,536,160
Lubricating oil .. .			33,196	7,214	28,201	31,549
Grease .. .. .			936	591	1,318	1,396
Petroleum jelly .. .	(a)	(a)	487	2,451	569	1,528
Paraffin wax .. ..			967	5,573	4,073	2,165
Gilsonite .. .. .			(a)	1,345	545	1,304
Asphalt and pitch ..			46	199	1,020	104
Petroleum coke .. .			67,407	238,976	284,225	170,408
<b>Jordan—</b>						
Motor spirit .. .. .	18,169	18,006	21,341			
Kerosine .. .. .	8,180	15,518	24,058			
Diesel oil, etc. .. .	(a)	(a)	9,531	(a)	(a)	(a)
Lubricating oil .. .	(a)	(a)	1,223			
Petroleum jelly .. .	(a)	(a)	1,230			
<b>Lebanon—</b>						
Crude petroleum .. .	(b)	(b)	25,490	25,190	34,050	(a)
Motor spirit .. .. .	(b)	(b)	57,280	82,570	94,780	(a)
Fuel oil .. .. .	(b)	(b)	115,250	128,140	134,280	(a)
<b>Macao—</b>						
Motor spirit .. .. .	5,696	(a)	(a)	(a)	(a)	(a)
Kerosine .. .. .	26,758	(a)	(a)	(a)	(a)	(a)
<b>Philippine Republic—</b>						
Motor spirit .. .. .	436,000	413,000	463,464	398,243	(a)	(a)
Kerosine .. .. .	110,000	127,000	149,384	127,580	(a)	(a)
Diesel oils .. .. .	233,000	243,000	301,269	309,103	(a)	(a)
Fuel oil .. .. .	233,000	259,000	297,177	276,222	(a)	(a)
Lubricating oils ..	29,000	31,000	29,720	54,011	(a)	(a)
Grease .. .. .	2,419	2,800	3,156	3,791	(a)	(a)
Petroleum jelly .. .	2,289	1,629	2,042	2,884	(a)	(a)
Paraffin wax .. ..	3,516	3,926	5,137	5,013	(a)	(a)
Asphalt .. .. .	24,657	27,096	8,140	5,586	(a)	(a)
<b>Portuguese India—</b>						
Motor spirit .. .. .	1,633	2,867	(a)	(a)	(a)	(a)
Kerosine .. .. .	2,105	2,851	(a)	(a)	(a)	(a)
Lubricating oils ..	337	209	(a)	(a)	(a)	(a)
Other oils .. .. .	1,982	2,362	(a)	(a)	(a)	(a)

(a) Information not available.

(b) Included with Syria.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Siam—</b>						
Motor spirit .. ..	59,048	81,539	86,626	111,992	(a)	(a)
Kerosine .. ..	46,793	57,149	50,653	52,801	(a)	(a)
<b>Syria (b)—</b>						
Motor spirit .. ..	39,500	98,100	74,700	100,300	(a)	(a)
Kerosine .. ..	22,000	56,800	(a)	(a)	(a)	(a)
Fuel oil and diesel oil	38,181	190,392	94,400	115,400	(a)	(a)
Lubricating oil ..	6,300	8,500	(a)	(a)	(a)	(a)
Asphalt and bitumen ..	4,789	9,653	(a)	(a)	(a)	(a)
<b>Turkey—</b>						
Motor spirit .. ..	138,877	190,234	192,568	241,227	276,246	324,189
Kerosine .. ..	79,800	109,298	122,956	168,315	199,326	224,165
Fuel oil .. ..	81,081	133,605	150,342	197,627	274,205	} 330,935
Heavy oils .. ..	24,721	37,075	24,201	34,906	44,472	
Paraffin wax and petroleum jelly ..	656	559	458	1,724	762	(a)
Ozokerite and ceresin ..	1	5	18	16	66	(a)
Asphalt .. ..	(a)	(a)	(a)	7,717	9,674	186
<b>French Oceania—</b>						
Motor spirit .. ..	} 6,010	5,587	7,659	7,156	3,139	(a)
Kerosine .. ..					1,519	(a)
Other oils .. ..					4,662	(a)
<b>New Caledonia—</b>						
Motor spirit .. ..	5,314	5,298	2,716	6,795	8,266	9,685
Kerosine .. ..	942	835	867	2,040	2,291	2,185
Gas and fuel oils ..	6,722	3,444	119	6,364	5,615	6,094
Lubricating oil, etc. ..	487	560	377	46	827	628

(a) Information not available.

(b) Including Lebanon up to and including 1949.

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

Producing Country	Estimated Tribasic Phosphate of Lime Content or equivalent.											
	1948	1949	1950	1951	1952	1953	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>												
Seychelles (b) (c) ..	21,237	13,727	9,691	4,404	10,944	8,719	(a)	(a)	(a)	(a)	(a)	(a)
Somaliland Protectorate (b) (c) ..	250	571	303	680	521	358	90	220	120	260	210	140
Southern Rhodesia ..	—	66	36	—	—	—	(a)	(a)	(a)	(a)	(a)	(a)
South West Africa (b) ..	1,022	942	571	772	1,648	1,579	180	75	250	240	90	50
Tanganyika (e) ..	309	128	460	452	166	98	(a)	(a)	(a)	(a)	(a)	(a)
Uganda ..	—	—	—	2,207	4,931	5,363	(a)	(a)	(a)	(a)	(a)	(a)
Union of South Africa ..	39,030	55,579	51,025	80,548	95,044	78,860	13,700	19,500	17,900	28,200	33,300	27,600
Canada ..	—	18	115	5	—	—	(a)	(a)	(a)	(a)	(a)	(a)
Christmas Island (c) ..	174,765	243,475	315,361	333,343	349,158	280,192	149,000	207,000	268,000	283,000	297,000	238,000
India (apatite) ..	1,114	589	3,025	416	445	4,359	(a)	(a)	(a)	(a)	(a)	(a)
Sarawak (guano) ..	420	500	643	649	696	632	(a)	(a)	(a)	(a)	(a)	(a)
Australia ..	2,135	11	1,627	7,929	5,544	(a)	791	(a)	(a)	(a)	(a)	(a)
Nauru Island (c) ..	535,700	789,400	1,053,450	928,050	1,145,650	1,159,750	462,000	679,000	906,000	798,000	986,000	998,000
Ocean Island (c) ..	124,850	260,900	247,250	252,400	275,600	282,362	107,000	224,000	212,000	217,000	238,000	243,000
<b>TOTAL</b> ..	901,000	1,366,000	1,683,000	1,611,000	1,890,000	1,830,000	1,500,000	1,600,000	1,600,000	1,760,000	1,760,000	1,760,000
<b>FOREIGN COUNTRIES</b>												
Belgium (f) ..	89,779	26,584	49,990	119,872	85,885	35,329	(a)	(a)	(a)	(a)	(a)	(a)
France ..	83,249	58,701	91,279	110,502	100,136	74,000	21,600	11,300	51,000	(a)	(a)	(a)
Spain ..	22,652	22,728	23,700	22,469	23,103	21,590	14,800	15,000	15,400	14,600	15,000	14,000
Sweden (apatite) ..	1,418	1,579	2,012	8,871	21,084	6,203	970	1,090	1,267	2,856	(a)	(a)
U.S.S.R. (d) ..	2,300,000	2,500,000	2,500,000	2,750,000	2,750,000	2,750,000	1,500,000	1,600,000	1,600,000	1,760,000	1,760,000	1,760,000

(a) Information not available.  
(b) Phosphatic guano.  
(c) Exports.  
(d) Estimated by International Superphosphate Manufacturers' Association up to 1952.  
(e) Bat guano.

(f) Including Phosphatic chalk.

PRODUCTION OF PHOSPHATE-ROCK (cont.)

Producing Country	Estimated Tribasic Phosphate of Lime Content or equivalent.											
	1948	1949	1950	1951	1952	1953	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>												
Algeria .. .. .	660,000	638,000	666,400	764,300	691,491	608,950	422,000	415,000	433,000	482,000	436,000	384,000
Egypt .. .. .	371,051	344,945	390,934	492,956	513,966	476,480	241,000	224,000	254,000	306,000	319,000	295,000
French West Africa (e) .. .. .	(a)	(a)	(a)	797	21,060	45,096	(a)	(a)	(a)	(a)	(a)	(a)
Madagascar .. .. .	3,175,300	3,634,635	3,811,084	4,642,300	3,890,700	4,090,366	2,342,000	2,617,000	2,744,000	3,342,000	2,802,000	2,945,000
Morocco (French) .. .. .	1,834,300	1,419,200	1,500,700	1,652,400	2,228,890	1,691,388	1,171,000	894,000	946,000	1,008,000	1,360,000	1,032,000
Tunisia .. .. .	57,900	111,230	90,500	105,214	99,547	88,644	43,000	82,000	67,000	78,000	74,000	65,000
Netherlands West Indies .. .. .	9,388,160	8,877,474	11,114,159	10,775,032	11,400,000	12,503,830	6,631,000	6,264,000	7,790,000	7,441,000	8,100,000	8,712,000
United States .. .. .	33,786	12,142	(d)12,000	(d)12,500	(d)12,500	(d)12,500	19,600	7,000	7,000	7,000	7,000	7,000
Brazil .. .. .	56,587	48,531	45,730	36,595	12,110	(d)25,000	33,400	29,600	27,800	22,800	7,400	15,000
Chile (apatite) .. .. .	20,000	20,000	20,000	20,000	20,000	(d)25,000	14,000	14,000	14,000	14,000	14,000	18,000
China (d) .. .. .	3,533	673	254	141	(c)10,000	26,000	(a)	(a)	(a)	(a)	(a)	(a)
Japan .. .. .	(d) 4,000	(a)	(a)	(c)25,000	(c)25,000	40,000	(a)	(a)	(a)	(a)	(a)	(a)
Jordan .. .. .	108,918	b 240,271	b 149,841	b 142,161	82,580	96,845	75,000	160,000	101,000	95,000	56,000	66,000
Angaur Island .. .. .	184,385	260,913	266,027	248,000	263,000	271,500	153,000	214,000	218,000	203,000	216,000	223,000
French Oceania (Makatea) .. .. .	18,350,000	18,230,000	20,830,000	21,910,000	22,240,000	22,870,000						
<b>TOTAL</b> .. .. .	19,300,000	19,596,000	22,520,000	23,520,000	24,130,000	24,700,000						
<b>World's TOTAL</b> .. .. .												

(a) Information not available.

(b) Exports.

(c) Estimated.

(d) Estimated by International Superphosphate Manufacturers' Association.

(e) In addition, the following amounts of aluminium phosphates were produced (long tons):—1948—3,901; 1949—5,585; 1950—11,722; 1951—24,113; 1952—42,469; 1953—51,598.

**PRODUCTION OF SUPERPHOSPHATES†**  
(Long tons)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom .. .. .	1,103,646	1,123,679	1,048,188	782,058	770,547	1,007,762
Union of South Africa*	305,992	403,511	517,857	399,302	424,859	511,246
Canada (c) .. .. .	222,857	215,625	(e) 220,000	(e) 210,000	(e) 205,000	179,962
India .. .. .	21,358	46,724	51,708	61,018	46,650	47,674
Australia (c) .. .. .	1,186,062	1,423,137	1,483,458	1,547,823	1,597,080	1,581,001
New Zealand (d) .. .. .	557,653	616,382	635,955	565,803	598,899	715,720
Irish Republic .. .. .	149,100	138,925	162,255	160,199	121,121	169,210
<b>FOREIGN COUNTRIES</b>						
Belgium .. .. .	381,019	335,995	366,817	394,946	218,768	157,572
Czechoslovakia* .. .. .	207,926	(e) 200,000	(e) 250,000	(e) 230,000	(a)	(a)
Denmark .. .. .	413,979	426,107	410,787	431,550	400,910	433,393
Finland (b) .. .. .	127,168	193,275	225,831	235,914	278,776	304,300
France .. .. .	1,653,085	1,182,605	1,175,813	1,243,360	846,262	916,800
Germany* .. .. .	500,000	600,000	650,000	650,000	(g) 564,732	(g) 501,222
Greece* .. .. .	69,860	97,473	70,666	152,308	128,025	117,033
Hungary* .. .. .	37,283	(e) 40,000	(e) 40,000	(e) 75,000	(e) 60,000	(a)
Italy .. .. .	1,179,924	1,458,019	1,424,240	1,579,029	1,614,639	1,800,000
Netherlands .. .. .	780,458	836,029	869,588	863,544	394,607	574,900
Norway .. .. .	34,006	35,135	65,146	74,256	76,481	90,640
Poland .. .. .	(f) 275,215	(f) 392,034	(f) 382,183	(e) 270,000	(e) 250,000	(e) 250,000
Portugal .. .. .	298,062	298,661	308,783	390,998	351,906	(a)
Spain .. .. .	696,913	822,683	948,353	1,094,646	1,245,316	1,257,485
Sweden .. .. .	383,962	428,893	464,595	494,281	490,062	517,398
Switzerland .. .. .	20,400	17,960	(e) 18,000	15,800	12,900	9,400
U.S.S.R. (e)* .. .. .	2,300,000	2,500,000	2,500,000	3,000,000	3,000,000	3,000,000
Yugoslavia (e)* .. .. .	40,000	40,000	25,000	30,000	30,000	30,000
Canary Islands .. .. .	9,813	16,000	16,000	15,956	22,000	22,404
Egypt* .. .. .	37,365	58,306	67,634	87,088	104,160	95,393
Algeria .. .. .	107,029	81,475	83,756	108,072	100,033	92,797
Morocco (French) .. .. .	54,000	54,100	68,900	82,700	77,400	75,800
Tunis .. .. .	31,528	42,900	48,800	53,199	51,890	(a)
Cuba* .. .. .	(e) 18,000	23,276	25,000	30,000	27,000	26,000
Mexico* .. .. .	7,938	(e) 16,000	(e) 16,000	21,000	57,600	75,000
United States* .. .. .	9,424,474	9,387,564	9,720,537	9,497,770	8,816,496	8,384,060
Argentina* .. .. .	4,000	5,000	5,000	5,000	5,000	5,000
Brazil* .. .. .	25,000	26,000	26,000	71,000	(e) 72,000	(e) 72,000
Colombia* .. .. .	2,000	4,000	4,000	2,000	2,000	2,000
Uruguay* .. .. .	1,500	1,600	2,000	4,000	4,000	4,000
Formosa .. .. .	27,870	(a)	37,200	53,296	61,084	68,053
Israel* .. .. .	(e) 3,000	5,531	10,198	11,283	24,051	34,411
Japan .. .. .	939,476	1,142,485	1,385,759	1,481,813	1,333,899	1,490,541
Turkey .. .. .	5,482	8,457	12,926	18,518	20,899	21,653
<b>WORLD'S TOTAL .. .. .</b>	<b>23,645,000</b>	<b>24,776,000</b>	<b>25,846,000</b>	<b>26,485,000</b>	<b>24,800,000</b>	<b>25,300,000</b>

† Including, in some cases, concentrated superphosphate converted to ordinary superphosphate.

\* Source: International Superphosphate Manufacturers' Association.

(a) Information not available.

(b) Including "Kotka" phosphate.

(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) Federal Republic only.



**PRODUCTION OF BASIC SLAG**  
(Long tons)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Great Britain (b) ..	577,215	634,956	658,908	622,195	466,805	600,782
<b>FOREIGN COUNTRIES</b>						
Belgium .. .. .	(a)	(a)	(a)	(a)	(a)	(a)
France .. .. .	961,254	1,230,219	1,150,106	1,287,372	1,435,397	1,297,230
Germany .. .. .	601,000	1,053,000	1,339,000	1,442,000	1,780,000	1,613,000
Italy .. .. .	(a)	(a)	(a)	(a)	32,398	(a)
Luxemburg .. ..	550,000	525,000	488,000	597,000	(a)	(a)
Saar .. .. .	187,964	263,138	275,662	401,081	425,668	399,492
Sweden .. .. .	13,953	12,277	15,911	14,275	(a)	(a)

Basic slag has also been produced in Czechoslovakia, 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	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Superphosphates ..	18,655	1,936	3,186	1,564	1,139	1,353
Basic slag .. ..	2,043	(a)	(a)	(a)	(a)	(a)
Seychelles—						
Phosphatic guano ..	21,237	13,727	9,691	4,404	10,944	8,719
Somaliland Protectorate—						
Phosphatic guano ..	250	571	303	680	521	358
South West Africa—						
Phosphatic guano ..	1,022	938	568	772	1,633	1,579
Uganda—						
Phosphates .. ..	—	—	—	2,207	4,931	5,363
Union of South Africa—						
Superphosphates ..	22,088	25,413	27,989	21,729	(a)	(a)
Canada—						
Phosphatic fertilizer ..	120,249	130,815	108,224	127,276	134,148	157,986
Christmas Island (b)—						
Phosphate-rock ..	174,765	243,475	315,361	333,343	349,158	280,192
Hong Kong (d)—						
Superphosphates, basic slag, etc. .. ..	(a)	(a)	(a)	(a)	(a)	2,044
Malaya (d)—						
Phosphatic fertilizers ..	5	231	73	94	249	114
Australia—						
Superphosphates ..	858	1,221	356	987	1,096	1,323
New Zealand—						
Superphosphates ..	1	1	1	2	5	5
Nauru Island—						
Phosphate-rock ..	535,700	789,400	1,053,450	928,050	1,145,650	1,159,750
Ocean-Island—						
Phosphate-rock ..	124,850	260,900	247,250	252,400	275,600	282,362
<b>FOREIGN COUNTRIES</b>						
Belgium-Luxemburg						
E.U.—						
Phosphate-rock ..	33,441	1,648	9,609	6,579	35,279	2,546
Superphosphates ..	339,470	360,089	329,202	323,484	183,851	137,343
Di-calcium superphosphate .. ..	77,000	50,784	50,720	80,210	67,729	101,336
Basic slag .. ..	817,718	899,624	818,302	1,094,598	938,073	961,838
Czechoslovakia—						
Superphosphates .. (c)	9,994	(a)	(a)	(a)	(a)	(a)
Denmark—						
Superphosphates ..	12,231	17,362	12,031	7,928	46	81
France—						
Phosphate-rock ..	45	24	599	2,816	2,744	849
Superphosphates ..	82,128	160,775	118,577	122,842	61,151	25,331
Basic slag .. ..	91,919	292,776	334,492	235,241	297,527	295,457
Di-calcium phosphates	834	818	628	810	223	3,456
Germany (Federal)—						
Phosphate-rock ..	—	257	—	3,445	—	—
Superphosphates ..	—	—	7,374	16,491	18,375	28,967
Basic slag .. ..	(a)	(a)	(a)	—	103	45,308
Italy—						
Superphosphates, including bone superphosphates ..	83,281	218,511	54,778	15,840	105,238	75,717

(a) Information not available.

(c) January to October only.

(b) Including exports to Federation of Malaya.

(d) Including re-exports.

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

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
Netherlands—						
Superphosphates ..	321,927	364,360	468,995	464,120	377,725	267,471
Basic slag .. ..	5	—	—	—	—	—
Portugal—						
Superphosphates ..	144	29,128	51,512	52,236	17,627	16,189
Spain—						
Superphosphates, etc.	5,569	35,760	29,222	88,439	24,917	23,952
Sweden—						
Phosphate-rock ..	1,069	1,476	—	—	—	—
U.S.S.R.—						
Apatite .. .. .	} (c)	(c)	(c)	(c)	(c)	(c)
Other phosphate-rock						
Algeria—						
Phosphate-rock ..	599,419	560,966	598,188	684,414	592,279	530,277
Superphosphates ..	13,908	4,900	7,087	18,423	7,781	16,743
Egypt—						
Phosphate-rock ..	329,440	143,323	492,000	369,260	416,128	373,128
French West Africa—						
Phosphate rock ..	—	—	—	—	5,383	17,745
Aluminium phosphates	—	5,202	9,385	30,215	38,266	33,334
Morocco (French)—						
Phosphate-rock ..	3,081,944	3,483,382	4,076,890	4,379,922	3,816,654	4,048,001
Tunis—						
Phosphate-rock ..	1,858,003	1,764,127	1,547,000	2,064,594	1,725,117	1,489,399
Hyperphosphates ..	—	114,373	142,274	140,900	108,587	86,325
Netherlands West Indies—						
Phosphate-rock ..	57,900	91,546	88,667	106,895	105,200	94,518
United States—						
Phosphate-rock ..	1,141,364	1,257,962	1,832,048	1,726,979	1,429,284	2,100,798
Superphosphates (b)	382,840	315,988	242,562	266,689	259,091	250,738
Angaur Island—						
Phosphate-rock ..	109,000	240,000	150,000	142,161	82,580	108,998
French Oceania						
(Makatea)—						
Phosphate-rock ..	180,212	235,749	250,802	224,259	210,182	246,555
Japan—						
Superphosphates ..	78,969	1,641	—	—	(a)	84
Jordan—						
Phosphate-rock ..	—	—	(a)	6,150	23,000	38,384

(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):

	1948	1949	1950	1951	1952	1953
United Kingdom ..	—	—	—	—	—	—
Belgium .. .. .	—	(a)	—	—	17,784	53,224
Netherlands .. ..	33,667	—	—	—	17,518	58,149
Norway .. .. .	23,812	16,277	27,085	19,723	19,924	(a)
Sweden .. .. .	53,156	31,156	34,243	48,202	27,684	27,988

**IMPORTS OF PHOSPHATES, Etc.**

*(Less Re-exports)*

*(Long tons)*

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Phosphate-rock ..	983,869	1,086,653	1,109,294	1,030,083	962,688	1,078,635
Guano, raw .. ..	134	1,015	3,211	3,095	1,262	780
Superphosphates ..	91,443	87,829	168,573	294,457	34,995	17,651
Basic slag .. ..	97,423	219,551	258,173	171,190	68,321	137,324
Kenya—						
Superphosphates, basic slag, etc. .. ..	(b) 2,949	3,782	10,940	7,202	8,805	10,841
Mauritius—						
Phosphatic guano ..	2,575	2,842	2,775	2,921	2,331	2,326
Superphosphates, basic slag, etc. .. ..	12	100	100	256	221	192
Southern Rhodesia—						
Superphosphates ..	22,427	21,364	28,910	46,404	33,781	42,306
South West Africa—						
Superphosphates ..	642	655	497	831	(a)	(a)
Tanganyika—						
Superphosphates, basic slag, etc. .. ..	68	132	2,741	1,383	663	269
Uganda—						
Superphosphates, basic slag, etc. .. ..	(c)	4	7	39	22	25
Union of South Africa—						
Phosphate-rock ..	168,868	237,435	373,764	366,831	375,477	(a)
Superphosphates ..	35,830	22,526	45	—	3	(a)
Canada—						
Phosphate-rock ..	430,365	554,293	438,416	446,170	420,458	514,732
Superphosphates ..	106,592	149,618	163,234	167,779	192,219	182,668
Basic slag .. ..	49,740	33,433	30,900	36,139	57,331	68,746
British West Indies—						
Jamaica—						
Phosphatic fertilizers	231	251	720	1,184	431	191
St. Vincent—						
Superphosphates ..	40	10	32	116	161	156
Trinidad and Tobago—						
Superphosphates ..	498	102	10	1,315	809	598
Basic slag .. ..	(a)	—	75	—	25	—
British Guiana—						
Superphosphates, basic slag, etc. .. ..	4,839	601	(a)	1,070	(a)	859
Aden—						
Guano, raw .. ..	497	860	(a)	(a)	(a)	(a)
Ceylon—						
Phosphate-rock ..	22,335	24,609	31,548	38,346	26,171	31,271
Superphosphates ..	108	493	716	474	892	1,749
Basic slag .. ..	433	322	99	124	183	188
Cyprus—						
Superphosphates ..	14,321	17,290	20,881	24,805	20,853	26,006
Hong Kong (total imports)—						
Superphosphates, basic slag, etc. .. ..	(a)	1,968	1,176	30	29	2,067
India—						
Superphosphates ..	350	948	—	2,965	1,034	7,873
Ammonium phosphate	4,737	18,666	—	—	1,350	300
Other phosphates ..	21,844	9,608	53,445	45,070	23,325	21,967
Malaya (total imports)—						
Phosphate-rock ..	—	—	—	6,689	—	—
Phosphatic fertilizers ..	12,833	529	1,784	1,371	1,376	1,296
Pakistan (d)—						
Superphosphates ..	(a)	(a)	(a)	155	62	—

(a) Information not available.

(b) Including Uganda.

(c) Included with Kenya.

(d) Years ended March 31 following that stated.

## IMPORTS OF PHOSPHATES, Etc. (cont.)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES (cont.)</b>						
Australia—						
Phosphate-rock ..	738,139	1,016,291	1,224,827	1,050,462	1,095,127	1,181,709
Superphosphates ..	700	—	12,267	2,017	17	—
New Zealand—						
Phosphate-rock ..	309,902	410,450	511,504	397,190	653,933	442,122
Phosphatic guano ..	8,000	8,330	267	—	13,236	—
Superphosphates ..	—	—	1	1	477	151
Basic slag ..	13,400	42,101	65,319	69,190	47,101	36,998
Other phosphates ..	51,380	37,719	69,115	55,938	21,762	15,169
Irish Republic—						
Phosphate-rock ..	123,291	127,865	140,791	136,394	101,604	119,307
Superphosphates ..	19,675	37,849	48,092	93,078	31,453	11,796
Basic slag ..	21,736	27,038	27,306	33,279	28,297	35,718
<b>FOREIGN COUNTRIES</b>						
Austria—						
Phosphate-rock ..	—	493	60	315	79	438
Superphosphate ..	40	74,181	67,873	79,939	91,597	70,912
Basic slag ..	15,668	125,178	92,699	142,749	112,886	98,927
Belgium-Luxemburg						
E. U.—						
Phosphate-rock ..	398,679	347,861	391,601	450,827	349,089	325,270
Superphosphates ..	2	1	2	5	—	12
Di-calcium superphosphates ..	60	35	139	220	165	69
Basic slag ..	1,554	—	5,398	1,287	9,260	10,040
Czechoslovakia—						
Phosphate-rock ..	(b) 52,516	(a)	(a)	(a)	(a)	(a)
Superphosphates ..	—	(a)	(a)	(a)	(a)	(a)
Denmark—						
Phosphate-rock ..	227,971	275,344	233,917	244,376	243,333	241,555
Superphosphates ..	—	1,952	62,536	49,432	66,831	96,662
Finland (total imports)—						
Phosphate-rock ..	177,295	219,809	194,099	302,360	253,218	141,870
Superphosphates ..	29,722	16,871	7,081	42,527	19,684	1,322
Basic slag ..	—	—	3	—	—	—
Di-calcium phosphates ..	14,673	4,105	7,209	6,965	5,147	5,855
France—						
Phosphate-rock ..	1,396,256	940,907	1,096,400	1,321,058	906,716	1,033,856
Superphosphates ..	357	1,397	1,905	196	146	5,110
Basic slag ..	—	—	—	59	—	15
Di-calcium phosphates ..	1,413	—	8,496	7,875	7,579	4,972
Germany (Federal)—						
Phosphate-rock, etc; ..	554,451	461,189	586,147	642,381	783,297	580,401
Superphosphates ..	396,461	318,583	62,349	—	391	748
Basic slag ..	31,007	145,624	144,217	248,235	316,183	193,808
Greece—						
Phosphate-rock ..	55,496	60,000	42,000	75,000	(a)	(a)
Hungary—						
Phosphate-rock ..	25,934	27,000	61,000	47,000	(a)	(a)
Iceland—						
Superphosphates ..	633	2,165	2,388	2,925	(a)	(a)
Italy—						
Phosphate-rock ..	702,584	761,511	862,295	1,104,346	953,444	1,159,281
Superphosphates ..	—	492	677	—	—	—
Basic slag ..	22,899	29,151	29,500	46,509	23,942	60,983
Netherlands—						
Phosphate-rock ..	508,130	558,975	542,673	589,560	425,661	438,618
Superphosphates ..	9,747	12,645	51,262	249	338	1,000
Basic slag ..	231,134	156,728	309,203	297,658	353,670	354,418

(a) Information not available.

(b) January to October only.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
Norway—						
Phosphate-rock ..	23,812	22,460	67,907	66,705	69,011	70,348
Superphosphates ..	71,272	122,246	90,292	65,610	39,875	45,786
Basic slag .. ..	7,801	4,782	3,899	7,745	6,409	6,239
Poland—						
Phosphate-rock ..	176,675	227,000	192,000	284,000	(a)	(a)
Portugal—						
Phosphate-rock ..	197,068	173,984	178,700	198,917	241,351	243,582
Basic slag .. ..	2,444	—	1,026	4,671	5,788	8,266
Spain—						
Phosphate-rock ..	429,220	414,953	410,596	570,166	707,237	674,284
Superphosphates, etc.	20	10	—	—	—	—
Basic slag .. ..	—	—	—	—	—	—
Sweden—						
Phosphate-rock ..	217,015	253,732	335,675	424,155	308,011	303,995
Superphosphates ..	—	10,202	68,859	33,353	8,423	—
Basic slag .. ..	2,224	—	932	7,483	1	2
Switzerland—						
Phosphate-rock (b) ..	17,327	9,535	22,344	60,749	17,626	23,873
Superphosphates, etc.	6,240	7,190	11,470	11,768	14,111	12,694
Basic slag .. ..	116,497	114,707	122,385	111,563	110,045	141,259
Yugoslavia—						
Phosphate-rock ..	(a)	(a)	13,562	35,720	16,092	65,148
Algeria—						
Superphosphates ..	1,151	49	394	1,202	391	2,515
Basic slag .. ..	—	3,711	1,850	3,189	3,689	2,454
Egypt—						
Superphosphates ..	8,434	51,000	42,767	33,049	66,577	1,018
Tunis—						
Superphosphates ..	12,068	(a)	500	200	(a)	9,800
Cuba—						
Superphosphates ..	18,452	10,989	30,644	74,437	(a)	(a)
Calcium phosphates ..	6,138	19,741	16,927	12,761	(a)	(a)
Mexico—						
Superphosphates ..	1,265	144	191	1,237	1,060	5,013
United States—						
Phosphate-rock ..	48,104	64,891	87,173	89,823	110,371	101,171
Superphosphates ..	3,229	1,273	4,508	2,615	8,258	5,240
Basic slag .. ..	29	93	179	96	—	79
Ammonium phosphates	96,632	112,745	95,215	120,575	119,032	148,658
Brazil—						
Phosphate-rock ..	4,398	16,815	27,225	102,190	55,429	(a)
Superphosphates ..	42,548	50,660	127,401	119,804	71,616	(a)
Chile—						
Superphosphates ..	862	1,432	10	44	(a)	(a)
Colombia—						
Superphosphates ..	(a)	4,710	1,490	(a)	(a)	(a)
French Indo-China—						
Phosphate-rock ..	(a)	12,185	9,762	(a)	(a)	(a)
Israel—						
Phosphate-rock ..	(a)	4,924	4,985	7,100	(a)	(a)
Japan (total imports)—						
Phosphate-rock ..	406,433	466,000	967,822	1,037,350	962,330	1,042,770
Korea (c)—						
Superphosphates ..	(a)	(a)	(a)	(a)	96,071	52,675
Turkey—						
Phosphate-rock ..	3,937	5,905	4,528	18,873	15,312	(a)

(a) Information not available.

(b) Estimated on imports from producing countries.

(c) Years ended July 31 of that stated.

**PLATINUM**  
**PRODUCTION OF PLATINUM METALS**  
(Troy ounces)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Sierra Leone—						
Crude platinum ..	109	38	—	—	—	—
Union of South Africa—						
Crude ( <i>Pt metals content</i> )	22,552	30,470	55,246	58,323	72,701	90,292
Matte ( <i>Pt metals content</i> ) ..	46,374	56,904	88,971	132,575	159,820	208,885
Osmiridium (crude) ( <i>b</i> )	5,520	7,113	6,914	6,359	6,141	6,966
Canada—						
Recovered from Ontario nickel-copper ores ( <i>c</i> )—						
Platinum .. ..	121,404	153,784	124,571	153,483	122,317	137,545
Other platinum metals	148,343	182,233	148,741	164,905	157,407	161,550
Australia—						
New South Wales—						
Concentrates ( <i>Pt content</i> ) .. ..	—	—	16	8	—	—
Tasmania—						
Osmiridium .. ..	92	39	46	33	51	59
New Zealand—						
Crude platinum .. ..	—	—	—	8	4	2
New Guinea—						
Platinum .. ..	( <i>a</i> )	( <i>a</i> )	( <i>a</i> )	6	7	6
<b>FOREIGN COUNTRIES</b>						
Finland—						
Platinum and palladium	39	—	—	—	—	—
U.S.S.R.—						
Crude platinum ( <i>d</i> ) ..	125,000	100,000	100,000	100,000	100,000	100,000
Belgian Congo—						
Palladium .. ..	209	106	—	—	—	—
Ethiopia—						
Crude platinum .. ..	210	280	641	266	100	566

(*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):

	1948	1949	1950	1951	1952	1953
Osmium .. ..	1,679	2,213	1,710	1,774	1,639	1,823
Iridium .. ..	1,483	1,964	1,594	1,692	1,542	1,700
Ruthenium .. ..	717	993	792	864	774	837
Platinum .. ..	671	891	724	802	679	726
Rhodium .. ..	37	56	52	57	48	56

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

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

(*e*) Estimated.

## PRODUCTION OF PLATINUM METALS (cont.)

Producing Country	1948	1949	1950	1951	1952	1953
FOREIGN COUNTRIES (cont.)						
United States (b)—						
Crude platinum .. ..	13,741	17,169	22,346	27,799	28,220	20,868
New platinum metals recovered by refineries from gold and copper ores of domestic origin—						
Platinum .. ..	1,251	1,844	3,722	5,017	1,969	1,199
Palladium .. ..	4,261	5,794	11,533	3,999	4,196	3,989
Iridium, osmiridium, etc. . .	—	—	254	136	24	16
Colombia (e)—						
Crude platinum .. (d)	40,047	20,797	26,445	(c) 32,000	(c) 33,700	28,977
Japan—						
Platinum .. ..	—	68	151	245	484	987
Palladium .. ..	—	32	59	23	85	71
WORLD'S TOTAL (c)	529,000	576,000	601,000	685,000	687,000	766,000

(a) Information not available.

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

	1948	1949	1950	1951	1952	1953
Platinum .. ..	58,527	41,734	33,894	22,470	28,628	29,547
Palladium .. ..	28,418	37,209	21,167	27,999	25,540	30,494
Iridium .. ..	2,214	1,101	1,064	1,014	1,030	853
Other platinum metals	4,742	3,403	1,988	1,875	3,403	3,963

(c) Estimated.

(d) Exports.

(e) Main producers only. Total production may be very much greater and exported as contraband.



EXPORTS OF PLATINUM\*

(Domestic Produce)

(Troy ounces)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Platinum—						
Ingots, grain and powder ..	57,476	102,417	158,257	129,871	135,064	61,465
Other kinds, including alloys ..	25,939	23,245	31,725	26,156	49,968	186,217
Other platinum metals and alloys ..	111,501	221,644	265,774	202,012	184,687	203,973
Sierra Leone—						
Unrefined platinum ..	104	—	—	—	—	—
Union of South Africa—						
Osmiridium ..	5,081	6,351	6,368	5,960	5,210	6,219
Crude platinum metals	64,579	85,820	105,251	135,784	172,766	261,710
Canada—						
Concentrates etc. (b) ..	(£4,162,961)	(£4,791,495)	(£6,973,943)	£10,284,817	£11,182,825	(£9,486,988)
Scrap ..	537	634	192	185	1,027	115
Australia—						
Platinum and platinum group metals ..	12	492	31	582	629	506
New Zealand—						
Platinum, etc. (jewellers' sweepings) ..	339	73	175	66	31	—
Palladium ..	(a)	32	33	40	21	—
<b>FOREIGN COUNTRIES</b>						
Austria—						
Unwrought platinum and platinum metals	879	1,993	1,800	2,251	(a)	4,951
Czechoslovakia—						
Unwrought platinum and scrap ..	—	(a)	(a)	(a)	(a)	(a)
Denmark—						
Rods, sheets, wire, scrap, etc. ..	547	3,762	482	3,472	707	1,093
France—						
Unwrought platinum, alloys and scrap ..	—	129	675	129	—	—
Palladium, alloys and scrap ..	—	547	96	1,865	—	5,048
Drawn or rolled platinum ..	32	—	—	836	1,029	4,630
Germany (Federal)—						
Platinum metals and alloys ..	—	900	4,088	2,986	3,153	5,858
Italy—						
Sheets, bars, dust, scrap, etc. ..	—	—	27	—	129	547
Netherlands—						
Unwrought platinum ..	4,533	7,363	2,792	17,458	13,150	126,063
Sweden—						
Unwrought platinum ..	611	546	1,479	1,447	1,543	1,768
Switzerland—						
Unwrought platinum ..	707	161	2,636	739	1,222	1,382

\*Official figures which, in many cases, do not include platinum sent by 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	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b> (cont.)						
U.S.S.R. .. ..	(b)	(b)	(b)	(b)	(b)	(b)
Ethiopia (c) .. ..	460	355	1,943	60	1,303	(a)
United States—						
Ores, etc. (Pt. content) ..	5	165	82	732	(a)	30
Ingots, sheets, wire, etc.	15,471	18,150	12,753	8,760	8,599	2,522
Palladium, rhodium, etc. and alloys .. ..	20,994	22,628	24,946	52,088	17,697	23,206
Colombia—						
Platinum .. ..	40,047	20,797	24,452	17,157	7,853	(a)

(a) Information not available.

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

	1948	1949	1950	1951	1952	1953
United Kingdom ..	3,201	—	—	—	—	—
United States ..	67,705	—	45,896	16,075	—	31,256

(c) Years ended September 10 of that stated.

**IMPORTS OF PLATINUM\***

*(Less Re-exports)*

*(Troy ounces)*

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom (b)—						
Ingots, grain and powder	2,926	695	2,360	6,963	2,006	92,407
Other kinds, including alloys	412	275	24	62	33	78
Other platinum metals and alloys	(c) 796	68	13,056	332	168	(a)
Union of South Africa—						
Platinum	973	977	487	575	(a)	(a)
Canada—						
Platinum palladium and iridium	(£2,664,532)	(£2,855,461)	(£7,019,709)	(£5,789,129)	(£6,363,745)	(£5,962,957)
Australia—						
Platinum bars, rods, etc.	544	202	355	515	439	246
Other platinum metals	1,181	377	520	(a)	179	1,067
New Zealand—						
Bars, sheets, wire, etc.	} 1,659	{ 851	1,192	876	787	806
Palladium			63	315	130	246
<b>FOREIGN COUNTRIES</b>						
Austria—						
Unwrought platinum and platinum metals	1,254	900	2,025	5,176	7,780	2,283
Ingots, sheets, wire, etc.	1,415	(a)	(a)	(a)	(a)	(a)
Czechoslovakia—						
Unwrought platinum and scrap	(d) 642	(a)	(a)	(a)	(a)	(a)
Bars, plates, sheets and wire	(d) 1,445	(a)	(a)	(a)	(a)	(a)
Denmark—						
Rods, sheets, wire and scrap	1,832	707	1,125	1,190	514	643
Finland (total imports)—						
Unwrought platinum	138	—	3	6	—	257
France—						
Unwrought platinum, alloys and scrap	4,340	10,095	8,970	13,214	9,935	6,816
Unwrought palladium, alloys and scrap	868	1,641	2,894	10,931	5,691	15,497
Drawn or rolled platinum	—	—	—	514	419	96
Germany (Federal)—						
Platinum metals and alloys	1,929	37,423	76,742	57,539	45,037	54,336
Italy—						
Bars, dust and scrap	280	97	2,739	4,565	3,408	2,797
Sheets, foil and wire	305	39	163	707	1,157	193

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

(a) Information not available.

(b) Imports of ores and concentrates containing platinum are not separately recorded. The value of platinum and platinum metals contained in concentrates and other forms exported from Canada to the United Kingdom were as follows: 1948—£2,768,196; 1949—£3,182,112; 1950—£3,803,800; 1951—£5,193,010; 1952—£6,370,394; 1953—£5,331,324.

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):

	1948	1949	1950	1951	1952	1953
Crude platinum metals	64,579	85,820	105,251	135,784	172,766	261,710
Osmiridium	5,081	6,351	6,368	5,960	5,210	6,219

(c) Excess of re-exports.

(d) January to October only.

## IMPORTS OF PLATINUM (cont.)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b> (cont.)						
Netherlands—						
Unwrought platinum ..	2,861	4,951	6,912	4,501	17,072	39,867
Norway—						
Unwrought platinum ..	2,020	644	855	1,689	1,255	813
Sheets, rolled and wire	845	1,166	903	44	572	182
Portugal—						
Sheets, wire, etc. ..	227	107	206	260	266	406
Palladium .. ..	—	675	96	—	—	—
Spain—						
Bars, sheets, wire, etc.	10	449	379	—	35	—
Sweden—						
Unwrought platinum ..	407	144	482	611	96	96
Switzerland—						
Unwrought platinum ..	322	1,254	2,218	2,251	11,864	9,195
Yugoslavia—						
Unwrought platinum ..	(a)	(a)	129	32	(a)	482
Egypt—						
Ingots, bars, sheets, etc.	316	311	(c) 1,398	7	346	312
Cuba—						
Ingots and bars ..	707	457	2,059	1,130	(a)	(a)
Palladium .. ..	—	1,032	64	125	(a)	(a)
Mexico—						
Ingots and bars ..	18	618	466	167	515	782
Sheets and wire ..	(a)	(a)	(a)	(a)	(a)	(a)
United States—						
Ore (b) .. ..	1,943	505	628	197	1,261	1,512
Grains and nuggets (b)	28,263	27,728	35,793	34,425	27,355	45,950
Sponge and scrap (b)	68,907	69,768	106,663	135,177	118,568	108,944
Ingots, bars, sheets (b)	40,295	28,180	105,910	158,876	88,289	232,483
Iridium .. ..	5,472	4,221	6,457	3,144	4,718	1,643
Osmium and osmiridium	1,995	2,857	4,759	3,603	3,386	2,397
Palladium .. ..	119,949	73,770	142,673	239,151	200,502	227,080
Rhodium and ruthenium	8,604	11,255	19,506	26,724	8,739	15,515
Brazil (total imports)—						
Ingots, sheets and wire	33	23	(a)	—	8,445	(a)
Uruguay—						
Platinum metals ..	1,480	1,767	820	(a)	(a)	(a)
Venezuela—						
Unwrought platinum ..	32	482	(a)	(a)	(a)	(a)
Israel—						
Platinum .. ..	(a)	754	1,267	(a)	(a)	(a)
Palladium .. ..	(a)	2,635	22,323	(a)	(a)	(a)
Turkey—						
Sheets .. ..	64	—	—	193	161	(a)

(a) Information not available.

(b) Platinum content.

(c) Excess of re-exports.

**POTASH MINERALS**  
**PRODUCTION OF POTASH**  
(Long tons)

Producing Country and Description	1948	1949	1950	1951	1952	1953	K <sub>2</sub> O Content or Equivalent							
							1948	1949	1950	1951	1952	1953		
<b>BRITISH COUNTRIES</b>														
India—Nitrate .. .. .	2,972	6,554	5,501	5,212	8,384	(c) 2,777	1,500	3,000	2,700	2,600	4,200	1,400		
Australia—Alumite .. .. .	39,832	32,694	397	449	314	—	1,830	1,480	29	34	24	—		
TOTAL (estimated) ..							3,330	5,500	2,729	2,634	4,224	1,400		
<b>FOREIGN COUNTRIES</b>														
France (b)—Sylvinite, 12-22% K <sub>2</sub> O Fertilizer salts	4,409,508	5,202,169	5,766,802	5,718,240	6,160,594	5,933,600	79,625	80,157	88,199	54,553	70,748	1,014,500		
30-40% K <sub>2</sub> O Chloride							386,986	339,847	340,576	303,583	343,869			
50% K <sub>2</sub> O and over							206,177	365,894	459,240	499,660	498,366			
Germany—Federal Republic—Kainite, sylvinite, etc. Eastern—Potash salts .. .. .	5,193,000	7,175,400	8,786,200	10,676,168	12,386,500	12,388,000	530,000	877,000	1,077,000	1,303,000	1,529,000	1,552,000		
	(a)	(a)	(a)	(a)	(a)	(a)	750,000	930,000	1,460,000	1,614,000	1,775,000	1,880,000		

(a) Information not available.  
(b) Crude salts as mined.  
(c) Incomplete.

PRODUCTION OF POTASH (cont.)

Producing Country and Description	1948	1949	1950	1951	1952	1953	K <sub>2</sub> O Content or equivalent					
							1948	1949	1950	1951	1952	1953
FOREIGN COUNTRIES (cont.)												
Spain—												
Carnallite, sylvinite, etc.	977,064	903,655	997,329	1,042,259	1,196,437	1,214,247	149,709	146,414	174,890	193,054	208,180	208,850
Alumite .. .. .	1,467	813	589	887	894	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Eritrea—												
Chloride .. .. .	115	420	546	(a)	(a)	(a)	(a)	200	260	(a)	(a)	(a)
United States—												
Muriate (chloride)—												
60-62% K <sub>2</sub> O (c)	1,360,658	1,351,007	1,648,624	1,828,387	2,203,961	2,612,855	1,017,751	998,567	1,149,754	1,268,146	1,486,708	1,707,046
48-50% K <sub>2</sub> O ..	130,067	153,996	135,310	139,104	134,785	73,037						
Fertilizer salts ..	232,446	158,317	19,225	17,656	7,508	4,132						
Sulphate, etc. (b)	186,198	172,938	199,204	224,558	213,087	226,430						
Chile—												
Chloride .. .. .	6,550	4,941	(a)	(a)	(a)	(a)	1,883	1,400	1,419	(a)	(a)	(a)
China—												
Nitrate .. .. .	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Israel—												
Chloride .. .. .	9,570	—	—	—	—	5,165	5,742	—	—	—	—	3,100
Japan—												
Alumite .. .. .	1,949	3,488	3,342	3,827	2,573	4,202	(a)	210	200	(a)	(a)	(a)
TOTAL (d)							3,400,000	4,000,000	5,000,000	5,500,000	6,200,000	6,600,000
WORLD'S TOTAL (d) ..							3,400,000	4,010,000	5,000,000	5,500,000	6,200,000	6,600,000

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

(a) Information not available.

(b) Including sulphate of potash-magnesia.

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

(d) Revised estimates.

## EXPORTS OF POTASH SALTS

(Domestic Produce)

(Long tons)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
<b>United Kingdom—</b>						
Chromate and bichromate .. ..	424	697	653	200	454	361
Nitrate .. ..	2,854	1,195	1,868	2,364	1,314	1,309
Sulphate .. ..	25	34	50	68	72	75
Other compounds .. ..	1,741	1,515	2,014	2,251	1,478	(a)
<b>Hong Kong (re-exports)—</b>						
Nitrate .. ..	(a)	(a)	(a)	(a)	—	134
Chlorate .. ..	1,927	2,500	2,709	2,065	—	236
<b>India—</b>						
Nitrate .. ..	36	15	64	227	59	40
<b>Malaya (including re-exports)—</b>						
Fertilizer salts .. ..	91	246	19	157	575	10
Nitrate .. ..	1	1	5	14	12	7
<b>FOREIGN COUNTRIES</b>						
<b>Belgium-Luxemburg</b>						
<b>E.U.—</b>						
Fertilizer salts .. ..	46,094	97,984	125,205	42,768	31,320	80,843
Carbonate .. ..	2,793	2,782	2,790	1,657	1,534	1,786
Caustic potash .. ..	5,367	2,566	3,641	3,748	2,149	2,162
Chloride .. ..	167,388	280,323	401,263	380,217	302,756	488,680
Chlorates .. ..	(a)	30	6	238	297	—
Chromates, including those of sodium .. ..	215	124	387	712	132	97
Nitrate .. ..	998	1,729	1,111	1,328	379	91
Sulphate .. ..	92,828	92,684	80,317	123,994	125,211	162,155
<b>Finland—</b>						
Chlorate .. ..	953	488	983	1,475	531	226
<b>France—</b>						
Sylvinite, etc. .. ..	379,483	522,703	535,507	366,387	424,907	443,063
Chloride .. ..	(e) 246,635	(e) 333,599	(e) 501,244	(e) 486,276	(e) 445,468	577,628
Carbonate .. ..	5,362	4,534	6,065	7,676	4,661	5,347
Caustic potash .. ..	2,932	4,061	5,541	10,170	6,368	6,060
Chlorate .. ..	1,603	2,282	2,032	3,219	1,561	912
Nitrate .. ..	3,165	4,157	4,551	3,705	1,328	669
Sulphate .. ..	(b)	(b)	(b)	(b)	(b)	(b)
<b>Germany (Federal)—</b>						
Fertilizer salts .. ..	33,614	113,834	343,806	331,546	817,055	1,256,178
<b>Carbonate and wool grease ash .. ..</b>						
	—	645	5,619	4,124	2,210	1,957
Caustic potash .. ..	127	579	4,398	3,165	2,712	2,131
Chlorate .. ..	(a)	55	491	(c) 207	(a)	(a)
Manganates .. ..	—	65	236	(c) 48	(a)	(a)
Nitrate .. ..	—	88	946	1,784	2,662	5,399
Chloride .. ..	(a)	36,965	263,031	389,762	(d)	(d)
Sulphates .. ..	69,439	46,410	98,482	175,732	(d)	(d)
<b>Germany (East)—</b>						
Fertilizer salts (K <sub>2</sub> O content) .. ..	(a)	1,017,700	1,135,600	1,210,000	1,207,100	1,300,000

(a) Information not available.

(b) Included with chloride.

(c) January to September only.

(d) Included with fertilizer salts.

(e) Including other fertilizer salts.

## EXPORTS OF POTASH SALTS (cont.)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b> (cont.)						
Netherlands—						
Caustic potash .. ..	—	61	165	723	765	265
Chloride .. ..	1,188	994	1,206	920	871	470
Nitrate .. ..	1	5	17	25	14	14
Sulphate .. ..	409	589	547	539	317	300
Spain—						
Fertilizer salts .. ..	205,827	235,929	184,160	246,093	213,006	247,073
Chlorate .. ..	43	22	23	116	65	(a)
Sweden—						
Carbonate .. ..	—	—	30	34	—	4
Caustic potash .. ..	1,579	1,837	1,210	2,316	1,451	1,375
Switzerland—						
Nitrate (crude).. ..	14,172	1,256	15,449	8,686	10,658	6,801
United States—						
Chloride .. ..	75,214	82,235	82,024	84,245	73,310	63,467
Other fertilizer salts .. ..	17,800	17,011	14,380	13,200	11,224	11,008
Chromates .. ..	1,147	1,270	372	1,611	706	172
Caustic potash .. ..	9,704	2,380	1,801	3,578	1,767	2,089
Other compounds .. ..	10,482	10,277	6,010	8,305	3,350	2,021
Chile—						
Chloride .. ..	—	(a)	(a)	(a)	(a)	(a)
Nitrate .. ..	103,177	52,655	73,619	52,388	47,800	41,100
Chlorate .. ..	551	(a)	(a)	(a)	(a)	(a)
Israel—						
Chloride .. ..	14,548	—	—	—	—	1,750

(a) Information not available.



## IMPORTS OF POTASH SALTS

(Less Re-exports)

(Long tons)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Fertilizer salts .. .. .	—	664	691	9,321	25,514	30,760
Carbonate .. .. .	354	476	3,946	6,660	2,348	3,767
Caustic potash and lyes	1,213	229	1,356	2,553	1,781	1,793
Chlorate .. .. .	607	859	815	794	727	741
Chloride .. .. .	438,036	394,192	396,847	445,047	338,924	504,880
Nitrate .. .. .	25	(c) 37	244	489	343	710
Sulphate .. .. .	18,177	20,901	13,850	13,681	11,348	9,881
Other compounds .. .. .	278	1,201	489	1,123	467	435
Kenya—						
Fertilizer salts .. .. .	(a)	123	178	109	456	—
Mauritius—						
Fertilizer salts .. .. .	1,976	991	988	1,482	1,238	3,898
Northern Rhodesia—						
Compounds .. .. .	74	11	44	68	33	92
Southern Rhodesia—						
Compounds .. .. .	65	109	56	95	56	25
Tanganika—						
Fertilizer salts .. .. .	6	60	50	146	376	350
Uganda—						
Fertilizer salts .. .. .	(a)	1	12	46	10	13
Union of South Africa—						
Fertilizer salts .. .. .	3,846	129	—	(c) 4	(a)	(a)
Nitrate .. .. .	60	65	118	92	—	(a)
Caustic potash .. .. .	265	244	219	410	219	(a)
Chloride .. .. .	563	136	6,921	10,042	(a)	(a)
Other compounds .. .. .	722	1,005	594	995	15	(a)
Canada—						
Fertilizer salts .. .. .	7,634	6,181	2,043	1,545	1,515	1,227
Caustic potash .. .. .	3,156	1,578	2,141	2,168	1,696	1,940
Chlorate .. .. .	24	26	32	71	31	44
Crude chloride .. .. .	92,150	90,136	87,954	92,650	104,925	107,833
Nitrate .. .. .	355	439	448	634	350	539
Crude sulphate .. .. .	4,634	5,635	7,195	10,012	7,225	11,427
Other compounds .. .. .	687	1,046	1,124	1,436	1,473	1,421
British West Indies—						
Barbados—						
Fertilizer salts .. .. .	3,250	3,687	6,289	4,396	3,714	2,040
Jamaica—						
Fertilizer salts .. .. .	1,305	2,083	1,627	3,584	2,363	1,934
St. Vincent—						
Chloride .. .. .	10	(a)	(a)	(a)	(a)	(a)
Trinidad and Tobago—						
Chloride and sulphate	960	1,241	630	1,467	1,019	1,307
Ceylon—						
Kainite and Sylvinite ..	—	—	24	518	100	549
Chloride .. .. .	5,540	12,966	18,535	24,081	12,117	22,021
Nitrate of potash refuse	—	—	3	—	—	1
Sulphate .. .. .	675	124	149	50	223	440
Hong Kong (total imports)—						
Nitrate .. .. .	(a)	(a)	(a)	(a)	(a)	251
Chlorate .. .. .	1,571	3,541	3,283	2,681	(a)	68
India—						
Bichromate .. .. .	3	—	—	2	—	—
Chlorate .. .. .	930	523	574	860	1,301	1,081
Chloride .. .. .	1,528	4,561	4,713	13,654	4,162	7,308
Other compounds .. .. .	2,288	4,148	1,133	2,825	2,336	1,266
Malaya (total imports)—						
Fertilizer salts .. .. .	280	4,824	2,078	4,808	3,365	1,745
Nitrate .. .. .	—	41	10	84	22	14

(a) Information not available.

(b) Total imports.

(c) Excess of re-exports.

## IMPORTS OF POTASH SALTS (cont.)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
<i>(cont.)</i>						
<b>Pakistan (c)—</b>						
Bichromate .. ..	} (a)	(a)	(a)	} 23	7	27
Chlorate .. ..					213	313
Chloride .. ..					70	—
Other Compounds ..					224	54
<b>Australia—</b>						
Bichromate (b) ..	5	81	53	26	9	2
Carbonate .. ..	665	454	569	894	709	273
Caustic potash ..	1,503	222	230	605	840	318
Chlorate .. ..	3	17	6	23	18	17
Chloride .. ..	(b) 10,707	13,423	12,992	9,716	16,059	17,708
Nitrate .. ..	35	218	269	805	180	180
Sulphate .. ..	(b) 150	196	734	865	893	2,685
<b>New Zealand—</b>						
Caustic potash and pearl ash .. ..	146	50	33	81	106	18
Chlorate .. ..	32	214	45	47	51	49
Chloride .. ..	2,146	5,272	10,599	13,217	21,888	26,468
Nitrate .. ..	11	4	91	64	50	79
Sulphate .. ..	550	2,476	1,869	1,408	2,072	2,258
Other fertilizer salts ..	4	—	130	190	226	75
Compounds other than fertilizer (£N.Z.) ..	(£14,839)	147	46	44	53	91
<b>Irish Republic—</b>						
Kainite .. ..	2,668	—	—	—	—	—
<b>Fertilizer salts</b>						
(20–40% K <sub>2</sub> O) .. ..	1,367	6,039	3,002	—	—	—
Chloride .. ..	11,490	9,108	22,512	29,892	35,103	59,724
Chlorate .. ..	68	81	101	80	81	} 289
Nitrate .. ..	40	141	215	95	90	
Sulphate .. ..	421	535	845	538	241	
Other compounds ..	87	48	77	126	128	
<b>FOREIGN COUNTRIES</b>						
<b>Austria—</b>						
Fertilizer salts .. ..	7,941	66,639	43,037	88,257	79,443	86,627
Caustic potash .. ..	116	109	79	458	107	157
Carbonate .. ..	138	207	173	959	707	365
Chromates .. ..	225	99	169	66	138	105
Nitrate .. ..	41	119	205	206	160	221
<b>Belgium-Luxemburg</b>						
<b>E.U.—</b>						
Fertilizer salts .. ..	253,135	447,645	408,726	161,523	253,341	303,719
Carbonate .. ..	1,131	1,179	3	1,025	1,616	1,051
Caustic potash .. ..	1,323	946	3,188	1,142	1,038	588
Chlorates .. ..	2,049	631	820	4,718	297	293
Chloride .. ..	304,640	414,390	574,626	773,902	718,023	788,533
Chromates, including those of sodium .. ..	250	610	784	813	649	1,229
<b>Manganese and</b>						
<b>permanganate .. ..</b>						
Nitrate .. ..	59	(a) 27	160	214	103	166
Sulphate .. ..	41	27	113	124	2	1,176
Sulphate .. ..	4,168	6,340	3,396	7,249	7,449	9,110

(a) Information not available.

(c) Years ended March 31 following that stated.

(b) Years ended June 30 of that stated.

## IMPORTS OF POTASH SALTS (cont.)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Czechoslovakia—</b>						
Kainite .. .. .	(c) —	}	(a)	(a)	(a)	(a)
Fertilizer salts						
(38–44% K <sub>2</sub> O) ..	(c) 80,770					
Fertilizer salts (other)	(c) —					
Carbonate and nitrate	(c) 515					
Chloride .. .. .	(c) 10,837					
Sulphate .. .. .	(c) —					
<b>Denmark—</b>						
Fertilizer salts .. ..	150,203	190,275	223,091	228,889	356,575	330,798
Carbonate .. .. .	456	554	931	602	376	448
Caustic potash .. ..	1,161	1,197	1,557	825	907	1,091
Chlorate .. .. .	139	183	170	154	125	106
Chloride .. .. .	921	218	43	523	199	224
Chromates .. .. .	45	36	30	54	31	48
Nitrate .. .. .	335	587	739	939	567	658
Sulphate .. .. .	2	11	10	10	189	115
<b>Finland (total imports)—</b>						
Fertilizer salts .. ..	82,373	91,991	55,000	72,166	98,854	89,873
Carbonate .. .. .	186	303	178	218	165	101
Caustic potash .. ..	62	79	34	134	60	143
Chloride .. .. .	591	1,446	2,108	1,973	893	1,189
Nitrate .. .. .	37	55	30	100	100	67
Sulphate .. .. .	(a)	(a)	(a)	2,461	1,478	3,938
<b>France—</b>						
Fertilizer salts .. ..	—	3,935	2,724	10,969	97,140	2,357
Caustic potash .. ..	15	14	5	12	15	21
<b>Germany (Federal)—</b>						
Fertilizer salts .. ..	—	11,508	—	—	20	308
Carbonate and wool						
grease ash .. .. .	761	358	4	26	—	118
Caustic potash .. ..	153	2	197	199	117	267
Chlorate .. .. .	(a)	421	596	(b) 1,022	(a)	(a)
Manganates .. .. .	26	157	30	(b) 406	(a)	(a)
Nitrate .. .. .	—	34	—	10	—	49
<b>Greece—</b>						
Carbonate .. .. .	618	393	2,162	481	354	637
Caustic potash .. ..	83	63	22	11	61	79
Nitrate .. .. .	10	31	126	123	96	43
<b>Iceland—</b>						
Fertilizer salts .. ..	(a)	886	1,561	1,783	(a)	(a)
Carbonate .. .. .	(a)	(a)	(a)	(a)	(a)	(a)
Caustic potash .. ..	(a)	38	10	54	(a)	(a)
<b>Italy—</b>						
Fertilizer salts .. ..	26,471	44,751	48,562	67,695	67,739	85,035
Carbonate .. .. .	683	1,294	1,986	2,986	1,907	2,112
Caustic potash .. ..	2,813	2,813	2,861	4,082	3,283	3,045
<b>Netherlands—</b>						
Kainite .. .. .	62,622	18,393	47,147	48,657	75,324	94,717
Fertiliser salts						
(20% K <sub>2</sub> O) .. .. .	22,482	61,143	44,896	36,458	40,220	35,826
do. (40% K <sub>2</sub> O) ..	181,379	274,008	298,199	282,331	322,364	298,096
do. (50% K <sub>2</sub> O) ..	2,036	166	—	—	—	98
Caustic potash .. ..	6,129	1,619	3,958	4,992	3,283	3,140
Chloride .. .. .	24,762	16,551	3,263	5,484	10,096	17,580
Nitrate .. .. .	220	169	1,891	1,647	1,537	1,075
Sulphate .. .. .	31,907	} 24,806	} 48,370	{ 10,420	} 15,803	} 13,563
Patent potash .. ..	1,716					
<b>Norway—</b>						
Fertilizer salts .. ..	83,492	113,532	78,255	109,794	124,857	94,324
Carbonate .. .. .	396	486	377	417	330	418
Caustic potash and lyes	1,406	2,188	1,077	1,554	1,480	1,362
Chloride .. .. .	8,403	16,551	10,700	7,480	13,258	7,238
Nitrate .. .. .	93	169	106	203	80	129

(a) Information not available.

(b) January to September only.

(c) January to October only.

## IMPORTS OF POTASH SALTS (cont.)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Portugal—</b>						
Carbonate .. ..	51	15	42	86	58	73
Caustic potash .. ..	70	19	15	97	33	47
Chlorate .. ..	240	138	290	305	69	155
Chloride .. ..	4,639	10,139	7,910	9,803	7,800	5,311
Chromate .. ..	3	3	1	(a)	(a)	(a)
Nitrate .. ..	122	173	—	1	153	280
Sulphate .. ..	(a)	(a)	(a)	1,821	1,968	—
<b>Sweden—</b>						
<b>Fertilizer salts</b>						
(40% K <sub>2</sub> O)	102,966	120,443	142,827	159,455	152,942	176,658
do. (other)	156	10	43	34	689	562
Carbonate .. ..	1,065	761	934	1,366	1,298	1,115
Caustic potash .. ..	346	59	91	143	187	202
Chloride .. ..	13,958	7,516	9,609	14,933	12,032	5,294
Nitrate .. ..	223	610	542	675	382	636
Sulphate .. ..	(a)	(a)	2,808	3,085	3,127	5,663
Manganates .. ..	(a)	(a)	159	159	124	44
<b>Switzerland—</b>						
<b>Fertilizer salts</b> .. ..	44,617	43,519	58,434	64,886	63,050	62,264
Carbonate .. ..	628	676	948	1,231	642	581
Caustic potash .. ..	2,234	1,105	2,320	2,389	1,890	2,079
Chloride .. ..	2,721	1,264	2,183	3,181	2,617	2,138
Nitrate, crude .. ..	—	—	—	—	98	99
Nitrate, purified, including sodium nitrate ..	878	319	932	547	513	661
<b>Yugoslavia—</b>						
<b>Fertilizer salts</b> .. ..			4,921	10,739	4,607	22,219
Carbonate .. ..			26	122	251	(a)
Caustic potash .. ..	(a)	(a)	54	192	186	57
Chlorate and chloride			159	192	246	(a)
Nitrate .. ..			98	222	219	1
Sulphate .. ..			69	66	133	50
<b>Algeria—</b>						
<b>Fertilizer salts</b> .. ..	31,579	21,306	24,214	24,282	18,281	15,159
Carbonate .. ..	77	7	6	29	3	2
Caustic potash .. ..	83	35	39	27	24	40
Nitrate .. ..	100	16	38	22	20	13
Sulphate .. ..	182	(a)	(a)	(a)	(a)	(a)
<b>Egypt—</b>						
<b>Fertilizer salts</b> .. ..	1	45	445	752	2,559	469
Carbonate .. ..	113	163	88	269	267	31
Caustic potash .. ..	87	4	26	15	15	45
Chlorate .. ..	166	124	151	175	172	172
Chromates, including those of sodium ..	572	293	(a)	(a)	416	365
Manganates .. ..	40	20	49	60	31	14
<b>Madagascar—</b>						
<b>Fertilizer salts</b> .. ..	530	(a)	(a)	(a)	(a)	(a)
Caustic potash .. ..	24	(a)	(a)	(a)	(a)	(a)
<b>Mozambique—</b>						
Carbonate .. ..	—	30	6	1	2	(a)
<b>Tunis—</b>						
Carbonate .. ..	5	(a)	(a)	(a)	(a)	(a)
Caustic potash .. ..	3	(a)	(a)	(a)	(a)	(a)
Chlorate .. ..	53	(a)	(a)	(a)	(a)	(a)
Chloride .. ..	1,979	(a)	(a)	(a)	(a)	(a)
Nitrate .. ..	16	(a)	(a)	(a)	(a)	(a)
Sulphate .. ..	1,476	(a)	(a)	(a)	(a)	(a)
<b>Cuba—</b>						
Nitrate .. ..	18,954	13,143	16,842	22,066	(a)	(a)
Chlorate .. ..	309	169	277	390	(a)	(a)
Chloride .. ..	2,944	8,037	14,160	7,956	(a)	(a)
Sulphate .. ..	2,713	8,323	1,997	3,169	(a)	(a)

(a) Information not available.

## IMPORTS OF POTASH SALTS (cont.)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
<b>Mexico—</b>						
Nitrate (incl. soda) ..	15,441	5,628	7,962	12,334	11,007	9,352
Caustic potash ..	9,227	189	478	213	123	180
Chlorate (incl. soda) ..	(a)	(a)	(a)	(a)	(a)	(a)
Carbonate ..	(a)	(a)	(a)	(a)	(a)	(a)
Sulphate ..	(a)	(a)	(a)	(a)	(a)	(a)
<b>United States—</b>						
Fertilizer salts ..	476	912	1,287	3,370	1,960	3,014
Carbonate ..	3	2	4,710	1,987	152	1,379
Caustic potash ..	81	32	726	1,469	66	160
Chlorates ..	37	140	306	330	662	90
Chloride ..	31,789	26,005	268,227	439,850	250,160	155,396
Cyanide ..	22	—	636	835	812	1,254
Nitrate ..	—	6	175	5,866	23,426	15,131
Potassium-sodium nitrate mixtures ..	—	6,074	18,240	7,365	14,696	11,175
Sulphate ..	10,540	563	38,388	46,746	35,948	33,922
<b>Argentina—</b>						
Bichromate ..					351	46
Carbonate ..					120	28
Caustic potash ..					417	185
Chlorate ..	(a)	(a)	(a)	(a)	586	111
Cyanide ..					17	3
Nitrate ..					142	370
Sulphate ..					50	2
<b>Brazil (total imports)—</b>						
Caustic potash ..	167	84	(a)	755	104	(a)
Nitrate ..	1,168	881	(a)	1,988	1,376	(a)
Chloride ..	11,462	16,448	(a)	43,287	21,885	(a)
Sulphate ..	1,626	1,002	(a)	2,689	2,010	(a)
Carbonate ..	91	316	(a)	9	266	(a)
Chlorate ..	1,064	857	(a)	2,125	860	(a)
<b>Colombia—</b>						
Chlorate ..	(a)	148	252	(a)	(a)	(a)
Nitrate ..		158	289	(a)	(a)	(a)
<b>Peru—</b>						
Caustic potash ..	10	12	22	37	14	(a)
Other salts ..	68	71	53	146	61	(a)
<b>Uruguay—</b>						
Nitrate ..	262	708	330	409	(a)	(a)
Caustic potash ..	31	11	52	371	(a)	(a)
<b>Venezuela—</b>						
Carbonate ..	13	8	(a)	(a)	(a)	(a)
Caustic potash ..	45	49	(a)	(a)	(a)	(a)
Chlorate ..	21	33	45	517	(a)	(a)
Nitrate ..	427	224	82	88	(a)	(a)
<b>Japan—</b>						
Fertilizer salts ..			(a)	9,882	(a)	(a)
Kainite, etc. ..			(a)	470	(a)	(a)
Chloride ..	52,657	210,510	220,030	218,371	72,607	309,808
Sulphate ..			36,734	118,917	103,217	201,127
<b>Turkey—</b>						
Carbonate ..	231	1,150	826	871	858	(a)
Caustic potash ..	97	72	89	106	125	(a)
Chlorates ..	3	25	7	129	133	(a)
Chromates ..	43	89	89	59	90	(a)
Nitrate ..	50	356	287	16	1	(a)
Other salts ..	25	25	65	161	144	(a)

(a) Information not available.

**PYRITES**  
**PRODUCTION OF PYRITES\***  
(including Cupreous Pyrites)  
(Long tons)

Producing Country	1948	1949	1950	1951	1952	1953	Estimated Sulphur Content				
							1948	1949	1950	1951	1952
<b>BRITISH COUNTRIES</b>											
Great Britain ..	3,862	16,919	13,288	15,586	9,691	10,244	(a)	(a)	(a)	(a)	(a)
Southern Rhodesia ..	13,016	16,701	13,592	27,822	18,752	36,087	5,700	7,300	6,000	12,200	8,300
Union of South Africa ..	35,424	34,966	35,457	32,851	30,649	92,362	15,212	15,033	15,377	14,245	13,198
Canada (sales) (c) ..	164,348	223,639	279,120	397,275	494,631	373,305	77,791	104,983	134,363	192,288	235,037
Cyprus (saleable) ..	407,662	660,162	596,736	689,549	821,716	754,399	196,901	320,179	293,981	337,000	401,000
India ..	..	..	..	530	2,168	277	..	..	..	230	930
Australia ..	89,412	88,060	118,078	151,388	198,713	167,007	41,564	40,373	50,900	66,000	84,150
TOTAL ..	714,000	1,040,000	1,056,000	1,314,000	1,582,000	1,434,000	..	..	..	..	..
<b>FOREIGN COUNTRIES</b>											
Austria ..	7,747	11,440	13,315	10,075	8,988	69	2,896	4,000	3,157	2,703	2,261
Finland (b) ..	174,708	177,197	159,491	228,873	242,042	255,094	78,000	79,000	69,000	97,000	103,000
France (e) ..	178,814	202,149	243,704	276,127	295,669	292,960	80,900	83,900	104,857	115,114	117,700
Germany (Federal) ..	177,000	423,600	517,118	525,104	519,594	521,613	151,000	174,000	188,500	191,542	188,739
Greece ..	39,022	20,654	86,293	178,400	191,578	233,575	(a)	(a)	(a)	87,400	93,900
Italy ..	823,038	850,536	886,683	884,000	1,123,390	1,206,015	395,000	408,000	426,000	424,000	539,000
Norway ..	723,412	733,000	736,967	685,056	701,361	733,092	309,965	312,956	312,846	284,602	295,312
Poland ..	54,000	f 54,000	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Portugal ..	552,274	613,092	603,801	718,103	743,959	640,852	248,524	275,892	271,710	323,145	334,781

\* See also Sulphur (page 302).

(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): 1948—7,351; 1949—9,240; 1950—11,116; 1951—12,650; 1952—12,753; 1953—9,392.

(f) Estimated.

PRODUCTION OF PYRITES (cont.)

Producing Country	1948	1949	1950	1951	1952	1953	Estimated Sulphur Content					
							1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>												
<i>(cont.)</i>												
Spain ..	1,253,147	1,275,802	1,430,083	1,767,824	2,119,566	1,758,332	608,000	619,000	694,000	858,000	1,028,000	853,000
Sweden ..	385,841	417,310	400,384	400,507	407,054	382,846	179,113	201,846	199,105	199,602	201,769	201,107
Yugoslavia ..	295,268	240,909	115,317	151,350	185,158	170,271	133,000	108,000	52,000	68,000	83,000	78,000
Algeria ..	33,690	32,180	24,700	30,950	23,631	29,352	13,500	13,220	10,250	12,850	10,200	12,900
Morocco (French) ..	—	197	1,450	1,918	1,993	2,005	—	(a)	700	870	860	800
Tunis ..	3,164	2,884	1,130	—	—	—	1,400	1,380	538	—	—	—
United States (b) ..	928,531	888,388	931,163	1,017,769	994,342	922,647	388,126	378,453	392,788	432,819	418,139	379,545
Formosa ..	(a)	(a)	(a)	6,622	32,707	24,982	(a)	(a)	(a)	2,400	11,800	9,000
Japan ..	1,119,909	1,518,001	1,898,286	2,313,696	2,586,846	2,306,251	476,000	623,000	790,000	923,000	1,036,000	904,000
Korea (South) ..	—	—	—	—	743	765	—	—	—	—	(a)	(a)
TOTAL* ..	6,930,000	7,460,000	8,100,000	9,240,000	10,200,000	9,540,000						
WORLD'S TOTAL* ..	7,644,000	8,500,000	9,156,000	10,554,000	11,782,000	10,974,000	3,440,000	3,810,000	4,090,000	4,680,000	5,230,000	4,840,000

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

(a) Information not available.

(b) Includes by-product pyrites.

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

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Southern Rhodesia—						
Iron pyrites .. ..	12,246	16,665	12,329	24,728	15,281	33,586
Canada—						
Pyrites ( <i>S content</i> ) ..	44,860	80,851	99,689	158,963	176,694	115,721
Cyprus—						
Iron pyrites .. ..	369,925	401,768	533,501	614,864	633,270	565,183
Cupreous pyrites ..	—	77,820	111,210	99,060	146,672	129,915
Australia .. ..	(a)	9	177	6,420	—	—
<b>FOREIGN COUNTRIES</b>						
Austria .. ..	(a)	7,975	20,098	95,648	88,461	8,562
Belgium-Luxemburg						
E.U. .. ..	3,282	—	362	3,531	—	—
Finland—						
Concentrate .. ..	5,462	30,222	—	—	3,149	9,174
France .. ..	33	7	—	6	—	1,799
Germany (Federal)—						
Pyrites, etc. .. ..	—	—	6,496	19,686	14,599	12,578
Greece .. ..	29,506	4,990	46,327	149,878	174,409	160,447
Italy .. ..	81,549	87,209	88,408	146,091	107,920	59,290
Norway—						
Iron pyrites .. ..	206,236	172,372	183,381	159,871	191,731	129,834
Cupreous pyrites ..	274,429	234,526	199,540	129,154	138,836	193,066
Portugal—						
Iron pyrites .. ..	} 406,116	339,390	489,370	561,922	406,312	{ 298,198
Cupreous pyrites ..						
Spain—						
Iron pyrites .. ..	1,093,550	1,054,809	1,199,493	1,516,428	1,737,348	1,180,141
Cupreous pyrites ..	—	9,499	27,495	36,463	56,281	40,836
Sweden .. ..	64,653	54,478	60,689	4,036	10,236	11,810
Yugoslavia .. ..	(a)	(a)	172,922	158,583	157,289	69,559
Algeria .. ..	5,336	—	—	610	—	236

(a) Information not available.



## IMPORTS OF PYRITES

(Less Re-exports)

(Long tons)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom— Iron and cupreous pyrites .. ..	212,803	230,323	191,636	347,688	505,101	385,133
Northern Rhodesia— Iron pyrites .. ..	(c) 12,246	16,665	12,329	18,754	9,456	5,362
Irish Republic .. ..	41,193	38,487	45,293	42,303	34,288	40,137
<b>FOREIGN COUNTRIES</b>						
Austria .. ..	26,766	25,480	75,649	138,835	131,661	49,626
Belgium-Luxemburg E.U. .. ..	364,691	308,543	321,129	404,554	319,561	252,763
Czechoslovakia .. ..	(b) 168,077	(a)	(a)	(a)	(a)	(a)
Denmark .. ..	136,944	128,829	144,857	148,007	106,632	129,551
France .. ..	594,057	635,144	548,091	693,604	629,146	324,432
Germany (Federal)— Pyrites, etc. .. ..	454,580	278,942	628,961	785,468	996,450	854,832
Hungary .. ..	(a)	(a)	(a)	(a)	(a)	(a)
Italy— Iron-pyrites .. ..	18,388	53,231	85,982	183,199	79,578	113,188
Cupreous pyrites .. ..	—	5,224	—	12,359	7,190	1,383
Netherlands .. ..	258,549	252,023	312,851	375,944	428,941	331,495
Sweden .. ..	79,261	95,801	97,690	71,632	69,107	65,619
Algeria .. ..	2,972	3,030	3,144	11,261	1,857	8,777
United States .. ..	107,411	120,937	208,766	221,512	296,047	190,474
Japan .. ..	(a)	(a)	9,676	29,796	68,201	566

(a) Information not available.

(b) January to October only.

(c) Exports from Southern to Northern Rhodesia.

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

Producing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Great Britain—						
Rock-salt .. ..	40,400	41,000	41,449	54,200	44,521	42,846
Brine-salt .. ..	902,537	895,145	956,403	1,040,796	944,357	940,260
Salt in brine (b) ..	2,831,917	2,807,418	3,234,475	3,577,798	2,952,408	3,074,156
Northern Ireland—						
Brine-salt .. ..	13,036	12,768	12,958	13,042	10,637	—
Mauritius—						
Sea-salt .. ..	3,350	5,118	2,565	3,350	2,165	2,362
South West Africa—						
Rock-salt .. ..	4,366	2,430	3,854	4,632	6,779	4,621
Other salt .. ..	10,249	13,514	12,699	39,250	32,733	35,948
Anglo-Egyptian Sudan	35,665	42,349	40,110	45,485	52,469	53,993
Kenya .. ..	16,547	18,523	18,426	19,084	16,750	20,886
Tanganyika .. ..	11,398	14,743	12,276	15,608	18,951	19,785
Uganda .. ..	2,992	7,283	7,296	7,745	4,043	7,517
Union of South Africa ..	(a)	160,362	104,716	147,430	138,354	125,545
Canada—						
Rock-salt .. ..	23,132	38,663	49,258	64,996	73,679	63,423
Other salt (c) .. ..	638,708	630,100	717,573	795,323	795,256	792,449
British West Indies—						
Sea-salt—						
Bahamas (exports) ..	31,499	54,607	22,929	48,321	54,107	121,071
Leeward Islands (exports) ..	4,087	4,783	5,518	6,884	5,851	4,968
Turks and Caicos Islands .. ..	38,000	47,000	60,000	21,000	16,400	9,863
Aden .. ..	271,058	303,432	255,865	304,302	376,079	240,423
Ceylon .. ..	77,000	28,211	66,859	25,835	45,330	57,199
Cyprus .. ..	—	—	4,068	10,752	—	1,960
India—						
Rock-salt .. ..	4,058	4,229	5,049	5,443	5,992	5,772
Other salt .. ..	2,333,548	2,039,000	2,615,867	2,729,437	2,820,166	3,159,265
Pakistan—						
Rock-salt .. ..	153,988	167,700	(a)	(e) 103,000	(e) 101,000	(e) 125,000
Sea-salt (c) .. ..	191,000	(a)	(a)	166,000	145,000	176,000
Australia (d) .. ..	260,000	245,000	265,000	300,000	277,000	310,000
New Zealand .. ..	—	—	—	—	700	—
<b>Total* .. ..</b>	<b>8,000,000</b>	<b>7,500,000</b>	<b>8,700,000</b>	<b>9,550,000</b>	<b>8,940,000</b>	<b>9,390,000</b>
<b>FOREIGN COUNTRIES</b>						
Austria—						
Rock-salt .. ..	1,724	708	1,068	681	1,122	1,106
Evaporated salt .. ..	80,052	74,569	90,058	93,815	80,760	86,720
France—						
Rock-salt (incl. refined)	543,976	428,058	348,143	423,803	411,937	428,385
Salt in brine .. ..	1,905,749	1,574,646	1,848,883	1,867,017	1,511,237	1,616,043
Sea-salt .. ..	439,487	730,989	645,663	407,463	648,601	(a)

\* See page 286.

(a) Information not available.

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

(c) Including salt in brine.

(d) Estimated.

(e) Years ended March 31 following that stated.

PRODUCTION OF SALT (cont.)

Producing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
Germany (Federal)—						
Rock-salt, etc. . . . .						
Brine-salt . . . . .						
Greece—						
Sea-salt . . . . .	(b) 55,000	85,405	100,713	81,132	94,000	84,000
Italy—						
Rock-salt and brine-salt	715,600	791,730	734,369	1,095,275	754,088	(a)
Sea-salt . . . . .	870,085	464,458	c 1,041,263	(c) 888,111	886,367	(a)
Spring-salt . . . . .	16,041	14,772	17,156	15,089	15,183	(a)
Netherlands (brine-salt)	251,534	329,079	403,111	477,714	408,260	450,000
Poland—						
Rock-salt and brine-salt	412,968	443,326	654,000	(a)	} 504,000	(b) 500,000
Salt in brine . . . . .	301,343	(a)	(a)	(a)		
Portugal—						
Rock-salt . . . . .	48	40	41	38	44	48
Sea-salt (exports) . . . . .	10,492	16,636	30,279	28,911	22,590	2,978
Spain—						
Rock-salt . . . . .	288,255	284,333	303,360	361,999	369,330	378,538
Sea-salt . . . . .	685,598	538,248	887,336	879,189	881,699	(a)
Switzerland . . . . .	107,106	(a)	(a)	125,036	107,616	108,522
Yugoslavia . . . . .	(a)	(a)	129,000	94,000	146,035	(a)
Algeria—						
Brine-salt and sea-salt . . . . .	71,884	95,369	75,054	95,593	80,058	(a)
Angola . . . . .	58,902	40,634	39,834	48,451	56,602	(a)
Belgian Congo (rock-salt)	(a)	800	540	540	610	797
Canary Islands (sea-salt)	13,000	5,200	5,976	15,481	15,000	16,850
Cape Verde Islands . . . . .	13,417	18,996	19,457	23,725	17,805	(a)
Egypt . . . . .	(b) 350,000	344,352	530,503	597,452	490,522	381,449
Eritrea (sea-salt) . . . . .	60,000	79,040	53,070	(a)	(a)	(a)
Ethiopia (b) . . . . .	10,000	10,000	10,000	10,000	10,000	10,000
French Somaliland . . . . .	58,700	67,000	79,000	54,300	63,400	60,000
Morocco (French)—						
Rock-salt, etc. . . . .	10,602	} 33,531	59,052	64,929	39,368	40,150
Brine-salt . . . . .	23,902					
Morocco (Spanish)—						
Sea-salt (b) . . . . .	250	250	250	250	250	213
Mozambique—						
Rock-salt . . . . .	76	76	61	87	101	108
Sea-salt . . . . .	9,865	10,755	9,724	8,491	10,238	10,627
Tripolitania . . . . .	6,000	8,000	9,000	12,000	12,000	12,000
Tunis (sea-salt) . . . . .	103,578	96,535	92,616	144,193	84,163	131,305
Cuba (sea-salt) . . . . .	54,465	(a)	(a)	49,473	55,119	50,208
Dominican Republic—						
Rock-salt . . . . .	2,328	2,373	2,267	2,238	2,561	3,735
Sea-salt . . . . .	12,872	8,012	12,398	7,964	16,482	13,450
Haiti (b) . . . . .	8,000	8,000	(a)	(a)	29,900	34,400
Honduras . . . . .	(a)	(a)	4,327	4,577	(b) 4,500	(b) 10,200
Mexico (b) . . . . .	150,000	(a)	(a)	(a)	(a)	(a)
Netherlands West Indies	475	(a)	(a)	(a)	2,607	(a)
Nicaragua (sea-salt) . . . . .	9,455	11,342	11,152	12,044	13,007	13,751
Panama (sea-salt) . . . . .	3,320	4,278	9,826	11,689	12,804	3,867
Porto Rico (sea-salt) (b) . . . . .	15,000	15,000	15,000	15,000	15,000	15,000
Salvador . . . . .	21,172	(a)	(a)	(a)	18,000	(a)
United States (sales)—						
Rock-salt . . . . .	3,434,684	3,075,304	3,506,488	4,162,673	4,100,000	(a)
Salt in brine . . . . .	8,347,361	7,895,994	8,368,977	10,616,187	9,800,000	(a)
Evaporated salt . . . . .	2,863,753	2,932,465	2,972,579	3,263,221	3,125,000	(a)
Bolivia . . . . .	(a)	(a)	(a)	(a)	(a)	2,000
Brazil (sea-salt) . . . . .	768,993	792,000	781,638	1,224,700	768,289	(a)
Chile . . . . .	52,905	38,905	46,676	48,145	50,830	(a)

(a) Information not available.

(b) Estimated.

(c) Revised.

PRODUCTION OF SALT (cont.)

Producing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
Colombia—						
Rock-salt .. ..	93,027	100,376	105,229	108,346	164,981	114,863
Sea-salt .. ..	24,258	22,925	34,492	27,623	37,597	42,147
Costa Rica .. ..	6,500	8,100	8,300	5,359	2,500	(a)
Ecuador (sea-salt) .. ..	22,300	14,900	15,500	32,200	26,580	27,560
Guatemala—						
Sea-salt .. ..	(a)	(a)	11,300	11,800	11,785	(a)
Peru—						
Rock-salt .. ..	9,618	9,344	7,865	10,123	9,085	(a)
Sea-salt .. ..	47,430	42,476	52,105	52,299	54,007	(a)
Brine-salt .. ..	4,897	3,264	5,481	4,991	5,985	(a)
Venezuela (sea-salt) .. ..	34,972	70,790	55,547	38,305	114,217	71,440
Afghanistan .. ..	(a)	(a)	(a)	24,346	23,300	(b) 26,800
Burma—						
Sea-salt .. ..	42,705	29,609	18,020	60,675	56,701	60,934
Brine-salt .. ..	2,140	1,582	(b) 3,000	2,496	1,678	1,484
China (c) .. ..	2,440,000	2,000,000	2,500,000	3,000,000	3,500,000	(a)
Formosa (sea-salt) .. ..	360,026	249,937	172,297	279,763	324,542	168,742
French Indo-China .. ..	63,100	111,786	74,526	92,425	130,830	72,910
Indonesia (d) .. ..	350,414	313,863	160,169	473,000	196,141	(b) 222,000
Iran .. ..	(a)	(a)	100,000	75,048	(a)	(a)
Iraq (e) .. ..	13,120	9,025	11,673	15,413	18,993	18,404
Israel (b) .. ..	(a)	(a)	18,000	12,000	15,000	21,300
Japan—						
Government-licensed plants .. ..	287,491	389,500	413,000	431,000	426,700	453,800
Others .. ..	(f) 47,012	(a)	(a)	(a)	(a)	(a)
Jordan (brine-salt) .. ..	100	(b) 5,000	(b) 10,000	(b) 10,000	7,145	6,945
Korea (South) .. ..	(a)	185,830	172,122	83,221	200,645	189,643
Lebanon (sea-salt) (b) .. ..	5,000	2,500	6,500	7,000	12,000	20,000
Macao (exports) .. ..	4,104	(a)	(a)	(a)	(a)	(a)
Philippine Republic—						
Sea-salt .. ..	(a)	51,450	55,394	51,454	16,506	(a)
Portuguese India .. ..	10,550	17,846	17,330	31,078	19,642	15,720
Siam (b) .. ..	200,000	150,000	200,000	400,000	280,000	280,000
Syria .. ..	20,000	20,809	20,000	5,306	19,368	13,632
Turkey—						
Rock-salt .. ..	27,742	17,637	20,009	22,474	24,605	26,752
Lake and spring salt .. ..	70,979	105,064	101,149	84,531	134,802	150,742
Sea-salt .. ..	164,005	188,647	179,263	159,518	150,767	165,347
<b>TOTAL*</b> .. ..	<b>35,000,000</b>	<b>34,000,000</b>	<b>36,000,000</b>	<b>42,000,000</b>	<b>40,000,000</b>	<b>40,000,000</b>
<b>WORLD'S TOTAL*</b> .. ..	<b>43,000,000</b>	<b>41,500,000</b>	<b>44,700,000</b>	<b>51,500,000</b>	<b>48,900,000</b>	<b>49,400,000</b>

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

- (a) Information not available.
- (b) Estimated.
- (c) U.S. Bureau of Mines.
- (d) Government production of brine-salt.
- (e) Years ended March 31 of that stated.
- (f) Years ended March 31 following that stated.

EXPORTS OF SALT

(Domestic Produce)

(Long tons)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Rock-salt .. ..	7,692	6,716	9,507	5,451	6,039	8,625
Other salt .. ..	194,817	209,118	250,988	274,906	270,177	239,783
Anglo-Egyptian Sudan	5,755	6,645	14,042	12,321	28,939	12,877
Gold Coast .. ..	403	1,214	727	1,099	803	261
Kenya .. .. .	83	16	9	365	186	3
Southern Rhodesia ..	292	387	321	454	455	495
South West Africa—						
Rock salt .. ..	—	215	463	1,167	1,809	1,567
Coarse salt .. ..	—	214	2,781	22,847	12,733	9,778
Other .. .. .	—	148	413	927	404	171
Tanganyika .. .. .	2,937	2,952	3,874	3,811	4,254	5,633
Uganda .. .. .	1,309	1,489	2,131	2,295	2,000	2,092
Union of South Africa ..	17,819	20,031	16,093	15,031	9,268	10,120
Canada .. .. .	5,026	3,100	3,660	4,073	2,539	2,101
British West Indies—						
Bahamas (b) .. ..	31,499	54,607	22,929	48,321	54,107	121,071
Leeward Islands ..	4,087	4,783	5,518	6,884	5,851	4,968
Turks and Caicos Islands .. ..	70,685	52,718	9,553	22,500	10,300	9,155
Aden .. .. .	278,649	228,048	235,516	338,757	342,196	167,353
Ceylon .. .. .	2	83	158	1	—	—
Hong Kong (including re-exports) .. ..	11,850	10,236	5,946	2,461	1,896	2,345
India .. .. .	8,590	270	7,838	17,659	228,893	262,584
Malaya (including re-exports) .. ..	39,124	10,726	8,354	7,943	8,975	8,214
Australia—						
Rock-salt .. .. .	85	6	353	24	1,552	62
Refined salt .. ..	543	10,311	2,126	856	8,170	11,985
Other salt .. .. .	22,771	14,048	19,158	13,389	12,556	4,658
<b>FOREIGN COUNTRIES</b>						
Austria .. .. .	5,597	3,379	6,428	6,048	1,889	68
Belgium-Luxemburg E.U.—						
Common salt .. ..	1	39	14	132	56	85
Refined salt .. ..	17	31	57	21	40	5
Denmark—						
Refined salt, etc. ..	71	417	178	81	84	70
France .. .. .	295,342	190,394	108,341	122,452	75,106	50,947
Germany (Federal)—						
Rock-salt, sea-salt, etc.	388,138	534,310	583,574	691,434	609,738	626,607
Italy—						
Rock-salt and sea-salt	534,310	567,300	121,378	260,205	151,312	115,411
Netherlands—						
Rock-salt and sea-salt	—	—	—	—	79	620
Refined salt and waste	150,963	180,371	255,799	293,483	249,023	259,545
Norway—						
Common salt .. ..	59	2,298	1,552	3,970	474	3,642
Refined salt .. ..	4	1	18	22	35	550

(a) Information not available.

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

EXPORTS OF SALT (cont.)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
Poland .. .. .	70,999	(a)	(a)	(a)	(a)	(a)
Portugal .. .. .	10,492	16,636	30,279	28,911	22,590	2,978
Spain .. .. .	360,177	263,985	176,004	359,095	299,539	316,982
Sweden .. .. .	658	947	2,801	2,342	1,378	776
Algeria .. .. .	43,004	42,891	22,288	14,213	20,918	28,755
Angola .. .. .	(a)	16,471	18,324	21,796	20,360	14,161
Egypt—						
Common salt .. .. .	354,397	455,817	201,224	341,424	79,200	268,783
French Somaliland .. .. .	58,200	110,246	52,069	60,502	11,041	16,209
French West Africa .. .. .	(a)	(a)	(a)	(a)	(a)	(a)
Madagascar .. .. .	246	276	892	1,005	919	(a)
Mozambique .. .. .	995	1,403	1,742	1,047	1,575	(a)
Morocco (French) .. .. .	424	561	207	(a)	16	(a)
Morocco (Spanish) .. .. .	(a)	(a)	(a)	(a)	(a)	(a)
Tunis (including re-exports)						
Rock-salt and sea-salt	175,797	152,609	102,138	117,175	99,804	50,200
Cuba .. .. .	453	363	453	362	(a)	(a)
Mexico .. .. .	10	2,050	45	19,738	28,117	10,804
Netherlands West Indies .. .. .	475	248	326	933	(a)	(a)
Salvador .. .. .	1,729	1,208	376	2,359	2,451	(a)
United States .. .. .	327,394	321,229	169,979	392,068	312,474	222,786
Argentina .. .. .	(a)	(a)	(a)	(a)	18,970	9,636
Brazil .. .. .	238	41	(a)	12	9	(a)
Chile .. .. .	—	(a)	(a)	(a)	(a)	(a)
China—						
Refined salt .. .. .	(a)	(a)	(a)	} 98,000	(a)	(a)
Other salt .. .. .	31,974	(a)	(a)			
Formosa .. .. .	28,050	233,672	200,000	235,275	178,546	(a)
French Indo-China .. .. .	22,699	39,640	(a)	(a)	(a)	(a)
Iran (including re-exports) (b) .. .. .	1,180	930	2,039	1,750	(a)	(a)
Japan .. .. .	(a)	(a)	(a)	304	558	781
Macao .. .. .	4,104	(a)	(a)	(a)	(a)	(a)
Portuguese India .. .. .	11,177	9,551	(a)	(a)	(a)	(a)
Siam .. .. .	131,834	161,636	95,519	138,921	(a)	(a)
Turkey .. .. .	28,738	48,058	(a)	76,576	81,392	(a)

(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	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Rock-salt .. ..	1	—	23,572	26,347	35,548	30,028
Other salt .. ..	42,420	39,968				
Channel Islands .. ..	634	556	613	615	570	591
Malta—						
Refined salt .. ..	(£1,464)	(£2,007)	(£1,618)	(£1,925)	(£1,823)	(£1,921)
Other salt .. ..	—	(£228)	(£202)	1	304	237
Anglo-Egyptian Sudan	269	194	223	57	93	3,545
Gambia .. ..	869	648	924	270	563	704
Gold Coast—						
Refined salt .. ..	20	26	38	75	25	152
Other salt .. ..	850	1,099	2,127	3,823	1,718	4,842
Kenya (c) .. ..	6,436	688	778	694	4,847	2,360
Mauritius .. ..	—	—	—	804	1	1,743
Nigeria .. ..	77,410	75,806	63,417	94,801	82,328	85,917
Northern Rhodesia .. ..	5,083	5,711	6,116	6,468	7,228	6,506
Nyasaland .. ..	3,233	5,202	4,474	3,608	4,993	4,224
Seychelles .. ..	333	157	1,401	84	54	128
Sierra Leone .. ..	4,160	6,159	2,875	5,047	4,109	5,433
Somaliland .. ..	(a)	(a)	(a)	5	14	45
South West Africa .. ..	536	442	451	304	316	(a)
Southern Rhodesia .. ..	12,494	15,191	13,377	19,272	17,406	15,453
Tanganyika .. ..	577	3,209	1,568	1,614	7,933	3,396
Uganda .. ..	(d)	5,585	4,753	6,158	13,395	10,567
Union of South Africa—						
Rock-salt .. ..	117	197	196	27	140	(a)
Common salt and refined salt .. ..	2,173	2,791	2,890	8,235	4,313	(a)
Zanzibar .. ..	2,298	1,220	1,187	1,717	934	2,236
Canada (total imports) (e)—						
Salt for use of fisheries	26,172	74,334	51,410	52,750	62,097	53,680
Refined salt .. ..	—	—	—	17	29	21
Other salt .. ..	139,611	136,994	161,303	178,324	195,127	220,703
Newfoundland (f)—						
Salt in bulk .. ..	59,608	(f)	(f)	(f)	(f)	(f)
Refined salt .. ..	682	(f)	(f)	(f)	(f)	(f)
British Honduras .. ..	403	323	382	411	257	427
British West Indies—						
Barbados .. ..	2,237	2,416	2,294	2,348	2,596	1,963
Bermuda .. ..	134	174	158	(a)	152	127
Dominica .. ..	398	212	415	144	360	373
Grenada .. ..	1,109	340	680	781	546	735
Jamaica—						
Rock-salt .. ..	20	18	45	27	79	(a)
Other salt .. ..	10,836	6,028	9,654	9,531	9,426	9,714
Leeward Islands .. ..	197	242	264	469	168	207
St. Lucia—						
Common salt .. ..	420	375	469	1,040	660	563
Refined salt .. ..	11	13	15	32	23	58
St. Vincent—						
Unrefined salt .. ..	310	363	292	387	220	288
Refined salt .. ..	18	74	56	84	221	168
Trinidad and Tobago—						
Rock and coarse salt .. ..	207	545	732	581	462	1,594
Refined salt .. ..	3,739	4,365	4,489	4,690	4,043	4,373
British Guiana—						
Rock-salt .. ..	409	597	496	688	341	143
Refined salt, etc. .. ..	1,840	1,318	1,870	1,793	2,016	2,073

(a) Information not available

(b) Excess of re-exports.

(c) Including Uganda up to 1948 inclusive.

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

(d) Included with Kenya.

(e) Including Newfoundland from April 1, 1949.

## IMPORTS OF SALT (cont.)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
<i>(cont.)</i>						
Aden .. .. .	7	8	7	13	21	26
Brunei .. .. .	97	183	178	147	182	176
Ceylon—						
Refined salt .. .. .	3	14	8	18	9	6
Other salt .. .. .	24	21	30	22	30	18
Cyprus .. .. .	44	25	17	56	43	77
Hong Kong (total imports) .. .. .	49,412	76,371	45,072	29,174	27,738	31,842
India .. .. .	345,576	248,865	146,875	2,351	2,070	11
Malaya (total imports)—						
Refined salt .. .. .	59	83	110	135	127	152
Other salt .. .. .	91,629	66,350	77,332	66,399	71,740	67,831
North Borneo .. .. .	175	2,017	2,012	2,242	2,184	2,329
Sarawak .. .. .	3,359	3,416	3,356	3,491	3,786	3,695
Australia—						
Rock-salt .. .. .	3,865	5,020	6,332	4,049	2,095	5,415
Refined salt .. .. .	2,562	1,880	1,951	4,560	2,294	1,646
Other salt .. .. .	220	1,830	3,420	7,678	2,246	2,353
Fiji .. .. .	1,621	890	867	1,179	2,692	571
New Guinea (b) .. .. .	(£42,685)	(£43,884)	(£45,262)	(£4384)	617	341
New Zealand .. .. .	50,760	53,236	43,069	39,236	71,887	36,276
Papua (b) .. .. .	(a)	100	(£41,675)	122	182	(a)
Solomon Islands (d) .. .. .	8	5	7	9	14	14
Western Samoa .. .. .	142	80	119	102	322	101
Irish Republic—						
Refined salt .. .. .	3,148	3,748	2,815	2,558	3,805	} 30,513
Other salt .. .. .	26,377	27,186	26,222	26,857	24,685	
<b>FOREIGN COUNTRIES</b>						
Austria—						
Common salt .. .. .	2,667	636	91	—	81	59
Belgium-Luxemburg E.U.—						
Common salt .. .. .	382,398	295,409	310,443	428,049	323,689	377,874
Refined salt .. .. .	68,606	70,012	96,271	68,113	72,133	77,264
Czechoslovakia—						
Common salt .. .. .	(c) 201,510	(a)	(a)	(a)	(a)	(a)
Refined salt .. .. .	(c) 160,267	(a)	(a)	(a)	(a)	(a)
Denmark—						
Rock-salt .. .. .	146	796	1,511	1,050	1,955	1,237
Refined salt .. .. .	84,781	82,481	96,396	102,387	102,359	112,730
Finland (total imports)—						
Common salt .. .. .	128,815	65,823	91,617	104,594	89,591	92,201
France .. .. .	16,058	11,112	16,510	14,677	14,793	20,257
Germany (Federal)—						
Rock-salt, sea-salt, etc. .. .. .	141	255	16	—	—	45
Hungary .. .. .	(a)	(a)	(a)	(a)	(a)	(a)
Iceland—						
Common salt .. .. .	20,734	20,977	55,611	27,068	(a)	(a)
Refined salt .. .. .	109	54	94	129	(a)	(a)
Italy—						
Rock and sea-salt .. .. .	—	6	—	12	1,870	2,219
Netherlands—						
Rock-salt .. .. .	58,802	30,537	57,101	59,037	65,486	53,887
Sea-salt, etc. .. .. .	45,799	9,150	3,452	4,447	3,185	5,636
Refined salt .. .. .	(a)	(a)	4	41	11	13

(a) Information not available.

(b) Years ended June 30 of that stated.

(c) January to October only.

(d) Years ended March 31 following that stated.



## IMPORTS OF SALT (cont.)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
Norway—						
Common salt .. ..	234,160	209,449	217,484	219,295	227,492	188,704
Refined salt .. ..	20,240	19,703	29,012	34,992	40,641	26,780
Portugal .. ..	26	8	44	29	5	43
Sweden—						
Common salt .. ..	287,745	324,243	348,228	340,218	313,813	283,057
Switzerland .. ..	382	259	269	295	583	306
Yugoslavia .. ..	(a)	(a)	104,356	41,320	27,887	(a)
Algeria .. ..	1,391	518	127	133	132	154
Belgian Congo .. ..	22,995	31,141	31,549	31,452	39,058	34,763
Cameroon (French) .. ..	10,173	8,056	9,937	5,625	14,505	6,107
Egypt—						
Common salt .. ..	271	216	317	285	181	44
Ethiopia (b) .. ..	42,000	49,595	48,663	50,200	50,866	(a)
French Equatorial Africa .. ..	7,003	10,695	5,909	5,734	8,073	8,220
French Togoland .. ..	957	2,905	4,023	9,747	3,100	3,439
French West Africa .. ..	3,095	5,985	9,446	6,654	6,042	9,773
Madagascar .. ..	9,032	2,452	621	182	103	9
Morocco (French) .. ..	2,655	1,919	1,736	2,146	3,615	(a)
Morocco (Spanish) .. ..	(a)	(a)	(a)	(a)	(a)	(a)
Mozambique .. ..	3,801	3,247	5,438	2,636	3,325	(a)
Portuguese Guinea .. ..	908	761	(a)	(a)	(a)	(a)
Reunion .. ..	1,037	1,347	(a)	1,149	1,137	1,029
S. Thome and Principe .. ..	(a)	(a)	(a)	(a)	(a)	(a)
Costa Rica .. ..	189	125	(a)	(a)	(a)	(a)
Cuba (total imports) .. ..	6,526	8,287	10,639	13,392	(a)	(a)
French West Indies—						
Guadeloupe .. ..	(a)	(a)	1,809	1,822	1,928	(a)
Martinique .. ..	1,916	1,212	2,369	1,775	1,926	(a)
Guatemala .. ..	954	3,865	1,771	230	608	(a)
Honduras (d) .. ..	755	1,450	286	951	(a)	(a)
Mexico .. ..	3,629	1,866	111	471	638	585
Netherlands West Indies .. ..	270	353	520	(a)	(a)	(a)
Nicaragua (total imports) .. ..	(a)	(a)	(a)	(a)	(a)	(a)
St. Pierre and Miquelon .. ..	7,143	4,815	4,006	—	4	5
United States .. ..	5,019	5,633	7,026	3,865	6,300	122,597
Brazil (total imports)—						
Common salt .. ..	177	—	(a)	711	146	(a)
Refined salt .. ..	66	—	(a)	—	—	(a)
Dutch Guiana .. ..	769	923	(a)	(a)	(a)	(a)
French Guiana .. ..	(a)	102	360	186	274	176
Peru .. ..	—	—	—	2	15	(a)
Uruguay—						
Refined salt .. ..	(a)	(a)	(a)	(a)	(a)	(a)
Rock-salt .. ..	50	8,811	10,586	130	(a)	(a)
Coarse salt .. ..	32,769	38,127	46,064	34,964	(a)	(a)
French Indo-China .. ..	9,505	1,217	755	712	(a)	(a)
Iran (c)—						
Common salt .. ..	24	2	—	293	(a)	(a)
Refined salt .. ..	14	38	7	8	(a)	(a)
Iraq .. ..	55	134	9	21	(a)	(a)
Japan .. ..	1,182,229	1,798,736	632,662	1,779,503	1,447,293	1,362,278
Korea .. ..	114,261	(a)	(a)	(a)	(a)	(a)
Lebanon .. ..	8,985	7,283	8,453	9,726	(a)	(a)
Syria .. ..	8,985	7,283	2	—	(a)	(a)
New Caledonia .. ..	424	523	47	592	417	(a)

(a) Information not available.

(b) Years ended September 10 of that stated.

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

(d) Years ended June 30 of that stated.

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

Producing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Bechuanaland Protectorate—						
Kyanite .. ..	—	—	—	1,984	2,130	1,750
Kenya—						
Kyanite .. ..	14,600	23,263	8,834	2,640	961	67
Mullite .. ..	—	—	2,311	8,000	7,475	5,367
Nyasaland—						
Kyanite .. ..	—	—	—	—	40	1,208
South West Africa—						
Kyanite and sillimanite	—	—	—	58	2,679	2,426
Tanganyika (exports)—						
Kyanite .. ..	—	—	—	—	—	20
Union of South Africa—						
Andalusite .. ..	3,387	4,127	7,429	(d) 11,306	(d) 19,176	(d) 10,511
India—						
Kyanite .. ..	12,605	19,949	35,488	42,501	26,882	15,034
Sillimanite .. ..	213	974	1,475	4,048	5,076	4,941
Australia—						
Kyanite .. ..	1,125	—	—	—	—	—
Sillimanite (b) .. ..	696	961	1,581	871	1,333	3,557
<b>FOREIGN COUNTRIES</b>						
Sweden—						
Andalusite .. ..	(c) 2,725	—	670	—	—	—
United States						
Kyanite .. ..	12,993	10,817	(a)	(a)	(a)	(a)

(a) Information not available.

(b) Including andalusite and fibrolite. In addition the following amounts of kaolinised sillimanite ("dickite") were produced: 1951—260 (incomplete); 1952—1,774; 1953—2,477. Information for previous years is not available.

(c) Including andalusite quarried for concentrating.

(d) Including sillimanite.

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

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Kenya—						
Kyanite (incl. mullite)	13,760	18,907	9,588	9,894	8,578	4,401
Nyasaland—						
Kyanite	—	—	—	—	—	1,234
South West Africa—						
Kyanite	—	—	—	—	1,719	} 1,246
Sillimanite	—	—	—	49	390	
Tanganyika—						
Kyanite	—	—	—	—	—	20
Union of South Africa—						
Andalusite and sillimanite	—	—	—	1,530	4,530	2,709
India—						
Kyanite	15,841	14,831	32,496	25,176	26,772	15,748
Sillimanite	—	77	471	2,504	4,214	3,232
Australia—						
Kyanite (b)	2,800	30	—	—	—	—
Kaolinised sillimanite ("dickite")	(b) 680	689	521	271	101	—
<b>FOREIGN COUNTRIES</b>						
United States—						
Kyanite, etc.	413	928	940	884	1,008	921

(a) Information not available.

(b) Year ended June 30 of that stated.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Canada—						
Kyanite, etc.	472	979	509	724	1,156	774
Australia—						
Kyanite and sillimanite	(c) 100	(c) 249	949	28	70	1
<b>FOREIGN COUNTRIES</b>						
France—						
Kyanite	2,150	1,020	1,198	1,399	1,249	906
Sillimanite	136	271	530	775	1,204	1,375
Italy—						
Kyanite	(a)	(a)	(b) 1,026	583	1,089	2,559
United States—						
Kyanite, sillimanite, etc.	15,260	10,821	15,551	17,473	8,087	5,910

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

(a) Information not available.

(b) July to December only.

(c) Years ended June 30 of that stated.

**SILVER**  
**PRODUCTION OF SILVER ORE**

(In terms of metal)

(Fine troy ounces)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Great Britain .. ..	15,942	13,996	18,153	26,777	30,734	28,914
Bechuanaland						
Protectorate .. ..	233	27	39	70	282	464
Gold Coast (b) .. ..	45,553	40,051	43,317	52,853	44,116	44,949
Kenya .. ..	3,184	2,279	2,586	2,150	17,315	21,758
Nigeria .. ..	4,269	484	304	213	183	173
Northern Rhodesia (c) ..	145,865	134,920	173,304	100,702	348,954	514,699
Southern Rhodesia .. ..	81,404	84,495	85,549	79,731	81,356	84,566
South West Africa .. (d)	400,000	659,000	630,111	810,934	925,374	835,241
Swaziland .. ..	124	120	60	18	—	—
Tanganyika .. ..	25,340	26,886	50,624	111,348	172,083	265,198
Uganda (b) .. ..	56	42	35	14	14	55
Union of South Africa ..	1,170,951	1,159,375	1,119,135	1,162,588	1,176,433	1,193,152
Canada .. ..	16,109,982	17,641,493	23,221,431	23,125,825	25,222,227	28,299,335
Newfoundland .. ..	882,263					
India .. ..	12,797	11,275	15,676	14,612	17,675	16,864
Australia .. ..	10,057,519	9,849,213	10,677,456	10,792,032	11,425,872	12,264,806
Fiji .. ..	29,187	29,755	37,740	24,869	25,838	19,328
New Guinea .. ..	(a)	(h) 41,911	(h) 36,189	(h) 38,556	63,011	58,794
New Zealand .. ..	232,563	232,599	199,701	133,291	51,016	75,888
<b>Total .. ..</b>	<b>29,217,000</b>	<b>29,925,000</b>	<b>36,312,000</b>	<b>36,476,300</b>	<b>39,603,000</b>	<b>43,724,000</b>
<b>FOREIGN COUNTRIES</b>						
Austria .. ..	(a)	1,318	868	6,108	4,501	5,144
Czechoslovakia .. .. (g)	1,600,000	(a)	(a)	(a)	(a)	(a)
Finland .. ..	167,602	168,026	115,936	157,281	150,080	235,794
France .. ..	494,414	570,901	719,855	705,902	712,171	482,000
Germany (Federal) .. ..	867,459	1,601,782	1,637,116	1,819,957	1,877,700	2,314,436
Greece .. ..	(a)	(a)	(a)	74,590	65,600	73,272
Italy .. ..	596,000	702,400	688,900	702,500	693,900	698,800
Norway .. ..	216,667	169,981	168,181	165,015	147,006	112,850
Portugal .. ..	35,366	31,958	68,288	65,427	77,740	59,447
Spain .. ..	371,547	514,283	585,938	613,436	828,075	1,140,323
Sweden .. ..	1,137,943	1,140,708	1,275,709	1,145,917	2,196,282	1,455,400
Yugoslavia (refined) .. ..	1,504,237	1,917,792	2,386,839	3,032,008	2,577,043	3,048,019
Algeria .. ..	29,740	32,472	32,119	8,681	(a)	(a)
Belgian Congo .. ..	3,805,619	4,549,300	4,459,300	3,795,070	4,727,252	4,951,000
Morocco (French) .. ..	487,598	491,906	1,007,900	f 1,865,000	f 2,283,000	2,251,000
Mozambique .. ..	616	244	71	83	102	(a)
Tunis .. ..	16,011	68,320	71,825	61,119	(f) 167,409	125,034
Costa Rica .. ..	3,000	700	200	582	—	(a)

(a) Information not available.

(b) Exports.

(c) Recovered from copper-refinery slimes.

(d) Estimated.

(e) Including silver in lead concentrates exported amounting to 20,585; 77,273; 135,212; and 223,434 fine troy ounces in 1950; 1951; 1952 and 1953 respectively.

(f) Revised.

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

(h) Years ended June 30 of that stated.

(i) Accounted for by smelters.

## PRODUCTION OF SILVER ORE (cont.)

Producing Country	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b> (cont.)						
Cuba .. .. .	185,216	(b) 157,411	(b) 221,779	(b) 172,318	(b) 163,211	(a)
Guatemala .. .. .	(a)	(f) 81,502	(f) 339,360	(f) 309,857	(f) 371,679	458,481
Honduras .. .. .	3,172,027	3,378,000	3,514,976	3,182,502	3,650,599	(a)
Mexico .. .. .	57,519,704	49,454,883	49,141,445	43,797,735	50,353,561	47,886,441
Nicaragua .. .. .	214,628	206,604	187,953	206,882	238,389	252,697
Panama .. .. .	(a)	(a)	(a)	5,026	—	(a)
Salvador .. .. .	216,342	280,259	462,840	323,793	349,182	348,328
United States .. .. .	38,096,031	34,674,952	42,459,014	39,766,779	39,452,330	37,570,838
Argentina (f) .. .. .	1,201,900	1,249,421	1,150,000	1,253,879	962,948	(a)
Bolivia (c) .. .. .	7,562,208	6,637,296	6,548,110	7,164,118	7,065,608	6,787,440
Brazil .. .. .	23,084	21,041	21,155	20,319	17,301	209,816
Chile .. .. .	861,962	799,674	742,489	983,491	1,246,356	1,497,839
Colombia .. .. .	108,716	106,674	116,104	130,028	123,165	117,383
Ecuador .. .. .	205,800	276,900	273,200	33,600	82,200	75,900
Peru .. .. .	9,288,703	10,609,649	14,758,403	17,379,137	e19,179,525	19,216,409
Burma .. .. .	415,099	75,200	(a)	280,720	154,783	718,333
Formosa (e) .. .. .	(f) 14,133	(f) 17,148	(f) 20,603	32,762	6,720	40,671
Japan .. .. .	2,185,608	2,744,452	3,964,733	4,610,031	5,177,909	6,028,489
Korea (South) .. .. .	38,504	18,937	10,160	5,401	6,141	52,149
Philippine Republic .. .. .	150,760	218,433	216,034	274,602	693,751	572,046
Saudi Arabia .. .. .	67,819	81,295	124,287	109,912	(a)	150,626
Turkey .. .. .	(a)	580,000	(a)	(a)	(a)	(a)
<b>Total*</b> .. .. .	<b>136,000,000</b>	<b>126,000,000</b>	<b>140,000,000</b>	<b>136,000,000</b>	<b>148,000,000</b>	<b>146,000,000</b>
<b>WORLD'S TOTAL*</b> .. .. .	<b>165,000,000</b>	<b>156,000,000</b>	<b>177,000,000</b>	<b>173,000,000</b>	<b>188,000,000</b>	<b>190,000,000</b>

\*Totals exclude estimates for the U.S.S.R. for which no authentic figures are available. (In 1952 Russian production is estimated by the U.S. Bureau of Mines to have been 24,000,000 troy ounces). An allowance however, has been made for those other countries where information is not yet available.

- (a) Information not available.
- (b) Imports into the United States.
- (c) Exports.
- (d) Year ended June 30 following that stated.
- (e) Revised.
- (f) U.S. Bureau of Mines.

EXPORTS OF SILVER\*

(Including re-exports)

(In terms of metal)

(Fine troy ounces)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Refined bullion ..	11,176,381	18,814,049	21,582,042	18,111,753	13,746,387	12,892,517
Unrefined bullion ..	—	5	—	—	—	22,881
Malta—						
Bullion and scrap ..	1,900	—	1,300	1,400	2,000	700
Anglo-Egyptian Sudan—						
Bullion .. .. .	—	—	1,200	900	—	(a)
Gold Coast—						
Bullion .. .. .	45,553	40,051	43,317	52,853	44,116	44,949
Southern Rhodesia—						
Bullion .. .. .	81,001	81,308	84,227	78,935	83,898	85,506
Tanganyika—						
Concentrates .. ..	—	—	20,585	77,273	135,212	223,780
Refined bullion ..	25,010	27,631	31,014	36,271	35,900	41,234
Uganda—						
Bullion .. .. .	56	42	35	14	14	55
Union of South Africa—						
Bullion .. .. .	603,626	1,102,479	506,959	248	—	—
Zanzibar—						
Bullion .. .. .	—	—	—	—	—	—
British West Indies—						
Trinidad and Tobago—						
Bullion .. .. .	1,700	(a)	40,000	—	—	60
Canada—						
Ore, concentrates, etc.	3,294,691	4,054,614	3,494,107	2,413,288	3,546,448	5,686,518
Bullion .. .. .	5,814,573	6,211,912	8,355,183	16,183,364	14,928,515	14,632,914
Hong Kong—						
Bullion .. .. .	4,366,000	(a)	5,021,000	2,139,000	1,980,000	1,280,000
India—						
Bullion .. .. .	(c) 200	—	—	—	—	—
Malaya—						
Bullion .. .. .	98,700	(a)	354,300	215,600	1,204,400	1,600,200
Australia—						
Ores and concentrates ..	(b) 1,235,056	640,000	1,390,000	1,400,000	1,324,843	2,204,790
Silver-lead bullion ..	(b) 1,675,920	2,905,518	2,623,698	2,446,983	2,264,284	3,382,302
Bullion (refined) ..	5,385,887	4,555,738	7,488,141	7,180,541	5,954,090	5,162,656
Fiji—						
Bullion .. .. .	40,222	32,481	29,065	31,408	22,035	14,677
New Guinea (b)—						
Bullion .. .. .	(a)	38,691	36,326	38,639	53,429	64,420
New Zealand .. .. .						
Concentrates .. .. .	—	—	2,117	—	843	3,016
Scrap, sweepings, etc. . .	1,795	3,918	12,630	2,106	84	—
Beaten, rolled or drawn	(d) 145,436	(d) 85,721	93,000	2,000	750	31,000
<b>FOREIGN COUNTRIES</b>						
Denmark—						
Bullion .. .. .	64,000	61,000	56,000	47,000	57,000	40,000
Beaten, rolled or drawn	79,800	1,453,000	5,000	2,400	1,400	1,400

\*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) Gross weight.

## EXPORTS OF SILVER (cont.)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b> (cont.)						
France—						
Bullion .. .. .	1,385,000	1,810,000	995,000	411,000	272,000	52,000
Beaten, rolled or drawn	278,000	135,000	201,000	193,000	169,000	191,000
Italy—						
Bullion, etc; .. ..	(c) 3,000	(c) 16,000	(c) 3,600	(c) 19,000	(c) 79,000	(c) 4,000
Netherlands—						
Bullion and scrap .. ..	360,000	(a)	256,000	6,912,000	789,000	1,081,000
Sweden—						
Bullion .. .. .	110,000	135,000	250,000	233,000	174,000	495,000
Switzerland—						
Bullion .. .. .	530,000	560,000	551,000	112,000	13,700	421,200
Morocco (French)—						
Bullion .. .. .	(a)	(a)	(a)	(a)	299,000	(a)
Honduras (b)—						
Bullion .. .. .	(a)	(a)	4,550,144	(a)	3,650,599	(a)
Cuba (d)—						
Bullion, etc. .. ..	(a)	157,411	221,779	172,318	163,211	(a)
Mexico—						
Bullion, etc. .. ..	42,000,000	44,900,000	42,700,000	29,000,000	24,000,000	37,370,000
Nicaragua—						
Concentrates .. ..	(d) 216,800	(d) 109,100	(d) 133,300	(d) 141,764	(d) 137,309	(a)
Salvador—						
Bullion .. .. .	216,300	286,000	411,000	354,000	354,000	(a)
United States—						
Ore and base bullion .. ..	} (a)	(a)	(a)	65	(a)	(a)
Refined bullion .. ..		{ 3,006,741	4,598,285	6,393,925	2,004,933	(a)
Bolivia—						
Ores, etc. .. .. .	7,562,000	6,637,000	6,548,110	7,164,118	7,065,608	6,787,440
Chile—						
Ore .. .. .	(a)	(a)	(a)	(a)	(a)	(a)
Peru—						
Ores, concentrates, etc.	1,347,000	3,678,000	4,500,000	6,807,000	7,141,000	(a)
Bullion .. .. .	2,857,000	5,530,000	7,200,000	6,754,000	9,084,000	(a)

(a) Information not available.

(b) Years ended July 31 of year stated.

(c) Gross weight.

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

**TOTAL IMPORTS OF SILVER\***

*(In terms of metal)*

*(Fine troy ounces)*

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Ores .. .. .	1,786,000	(a)	3,075,000	2,805,000	3,668,000	3,603,000
Unrefined bullion .. .. .	870,917	1,906,000	2,601,654	1,590,915	1,840,268	2,068,943
Refined bullion .. .. .	7,617,058	12,965,000	7,287,943	10,191,575	8,381,916	31,656,236
Malta—						
Bullion .. .. .	8,200	(a)	1,900	3,700	3,200	5,800
Anglo-Egyptian Sudan—						
Bullion .. .. .	—	(a)	320	30	20,600	(a)
Gold Coast—						
Bullion .. .. .	1,437	31,528	28,870	59,954	148,277	115,625
Kenya and Uganda—						
Bullion .. .. .	800	(a)	700	300	200	300
Nigeria—						
Bullion .. .. .	10,538	16,816	6,601	47,575	4,574	—
Sierra Leone—						
Bullion .. .. .	—	—	381	1,251	2,633	3,443
Union of South Africa—						
Bullion .. .. .	115,796	240,303	25,302	782,076	20,967	(a)
Zanzibar—						
Bullion .. .. .	—	(a)	—	50	—	—
Canada—						
Bullion .. .. .	717,817	1,332,713	341,605	1,050,299	145,898	287,497
British Guiana—						
Bullion .. .. .	—	—	—	90	40	—
British West Indies—						
Jamaica—						
Bullion .. .. .	—	(a)	1,200	(a)	600	—
Trinidad and Tobago—						
Bullion .. .. .	200	(a)	100	40	6,800	—
Ceylon—						
Bullion .. .. .	124,000	(a)	23,000	37,000	40,000	50,000
Cyprus—						
Bullion .. .. .	5,800	(a)	2,800	4,800	3,300	3,000
Hong Kong—						
Bullion .. .. .	147,000	(a)	1,055,000	893,000	1,027,000	336,000
India—						
Bullion .. .. .	4,234,531	100,921	112,207	135,395	107,762	201,076
Malaya—						
Bullion .. .. .	—	(a)	1,800	5,400	200	800
Australia—						
Matte (b) .. .. .	(a)	—	—	—	1,200	—
Bullion .. .. .	40,327	30,081	74,688	79,186	123,240	63,123
Fiji—						
Bullion .. .. .	122	125	119	233	—	130
New Zealand—						
Bullion .. .. .	3,700	400	121	674	315	17,613
Beaten, rolled drawn .. .. .			(a)	7,400	5,800	630
<b>FOREIGN COUNTRIES</b>						
Belgium-Luxemburg						
E.U.—						
Bullion and scrap .. .. .	(a)	(a)	(a)	4,557,000	(a)	1,511,000
Beaten, rolled or drawn .. .. .						

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

(a) Information not available.

(b) Years ended June 30 of that stated.



## IMPORTS OF SILVER (cont.)

Importing Country and Description	1948	1949	1950	1951	1952	1953
FOREIGN COUNTRIES (cont.)						
Denmark—						
Bullion .. .. .	809,000	1,189,000	1,260,000	836,000	1,065,000	1,321,000
Beaten, rolled or drawn	379,000	577,000	688,000	1,032,000	849,000	1,036,000
Finland—						
Bullion, etc. .. .	15,000	(b) 46,000	112,000	1,360,000	202,000	(a)
France—						
Bullion .. . . .	1,979,000	2,299,000	1,452,000	2,927,000	2,529,000	4,195,000
Beaten, rolled or drawn	54,000	43,100	145,200	60,000	57,000	43,500
Italy—						
Bullion, etc. (b) ..	532,000	1,213,000	631,000	1,433,000	2,905,000	4,869,000
Netherlands—						
Bullion and scrap ..	915,000	(a)	1,528,000	(b) 1,247,000	1,211,000	1,732,000
Norway—						
Bullion .. . . .	(a)	(a)	(a)	(a)	(a)	957,000
Beaten, rolled or drawn	507,000	600,000	700,000	577,000	906,000	785,000
Sweden—						
Bullion .. . . .	2,100,000	2,300,000	3,800,000	1,800,000	1,124,000	2,499,000
Switzerland—						
Bullion .. . . .	836,000	750,000	1,020,000	3,110,000	1,950,000	2,938,000
Algeria—						
Bullion, etc. .. .	83,000	69,000	63,000	76,000	130,000	46,000
Egypt—						
Bullion and scrap ..	366,000	880,000	(a)	(a)	13,500	5,600
Guatemala—						
Bullion .. . . .	(c) 87,000	(c) 23,000	(c) 82,000	—	82,000	(a)
United States—						
Ore and base bullion ..	} (a)	{ 31,997,848	33,898,797	29,020,568	30,779,137	(a)
Refined bullion .. .						
Brazil—						
Bullion .. . . .	481,000	(b) 626,000	(a)	(a)	(a)	1,400
Colombia—						
Bullion .. . . .	(a)	(a)	(a)	(a)	(a)	(a)
Turkey—						
Bullion, etc. .. .	2,700,000	(a)	(a)	7,600	112,000	(a)

(a) Information not available.

(b) Gross weight.

(c) Revised.

**STRONTIUM MINERALS**  
**PRODUCTION OF STRONTIUM MINERALS**  
(Long tons)

Producing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Celestite .. ..	7,407	4,794	6,653	16,350	8,100	2,965
Pakistan—						
Celestite .. ..	(a)	(a)	(a)	136	431	820
<b>FOREIGN COUNTRIES</b>						
France—						
Celestite .. ..	276	(a)	(a)	(a)	(a)	(a)
Tunis—						
Celestite .. ..	15	—	—	24	—	—
Strontianite .. ..	103	—	148	399	30	—
Mexico (b)—						
Celestite .. ..	869	1,142	1,707	1,932	1,178	2,209

Strontianite is also produced in Germany.

(a) Information not available.

(b) Exports.

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

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Celestite (b) .. ..	5,395	4,378	5,942	10,689	7,286	3,940
<b>FOREIGN COUNTRIES</b>						
France—						
Celestite .. ..	3	—	—	—	—	—
Strontianite .. ..	3	11	3	10	—	—
Oxide .. ..	2	—	—	6	6	1
Germany (Federal)—						
Strontianite and						
witherite .. ..	15	20	18	(c) 49	(a)	(a)
Strontium compounds	—	—	11	15	—	(a)
Italy—						
Strontianite and celestite	(a)	(a)	(d) 159	962	1	42
Spain—						
Celestite (b) .. ..	13,048	2,913	—	—	—	—
Tunis—						
Strontium minerals ..	103	(a)	(a)	(a)	(a)	(a)
Mexico—						
Celestite .. ..	869	1,142	1,707	1,932	1,178	2,209

(a) Information not available.

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

(c) January to September only.

(d) July to December only.

IMPORTS OF STRONTIUM MINERALS, ETC.

(Less Re-exports)

(Long tons)

Importing Country and Description	1948	1949	1950	1951	1952	1953
FOREIGN COUNTRIES						
France—						
Celestite .. ..	—	—	—	111	483	60
Strontianite .. ..	135	145	147	354	129	—
Oxide .. ..	(a)	(a)	(a)	—	—	—
United States—						
Strontianite and celestite	19,438	8,379	7,706	12,539	8,497	6,158
Strontium compounds	1	20	16	—	(a)	7
Turkey—						
Strontium compounds	10	1	—	1	1	(a)

(a) Information not available.

**SULPHUR**  
**PRODUCTION OF SULPHUR\***  
 (Long tons)

Producing Country and Description	Estimated Sulphur Content											
	1948	1949	1950	1951	1952	1953	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>												
United Kingdom—												
Spent oxide (b) ..	238,300	218,300	244,000	304,804	238,075	305,000	114,400	104,800	117,100	146,300	114,300	146,400
Canada—	(a)	(a)	(a)	(a)	(a)	(a)	127,087	128,830	134,540	139,667	143,346	162,500
Smelter gas ..	—	—	—	—	(a)	(a)	—	—	—	—	7,974	16,337
Hydrogen sulphide (d) ..	—	—	—	—	(a)	(a)	—	—	—	—	—	—
<b>Australia—</b>												
Sulphur recoverable from zinc concentrates ..	(a)	(a)	(a)	(a)	(a)	(a)	81,690	100,009	107,900	99,900	105,800	120,700
Spent oxide ..	(a)	(a)	12,000	12,000	12,000	13,579	(a)	4,000	5,270	4,717	4,211	5,432
New Zealand ..	—	—	—	—	486	—	—	—	—	—	(a)	—
<b>Irish Republic—</b>												
Spent oxide (c) ..	(a)	(a)	£2,555	£157	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
<b>FOREIGN COUNTRIES</b>												
France—												
Sulphur rock ..	139,122	115,784	140,245	265,636	378,664	301,375	13,912	9,587	5,571	11,000	17,871	10,818
Greece—												
Sulphur rock ..	(a)	(a)	(a)	(a)	—	10,152	(a)	(a)	(a)	(a)	—	1,200
Italy—												
Sulphur rock ..	1,342,311	1,520,588	1,717,018	1,707,806	1,846,692	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Crude sulphur (e)—												
Fused ..	170,904	185,566	209,766	197,382	232,705	224,160	(a)	(a)	(a)	(a)	(a)	(a)
Ground ..	18,128	19,213	16,383	22,120	21,482	16,940	(a)	(a)	(a)	(a)	(a)	(a)
<b>Norway—</b>												
Sulphur recovered from pyrites ..	77,985	79,901	94,671	96,854	103,133	101,703	77,907	79,892	94,387	96,563	102,824	101,672
<b>Portugal—</b>												
Sulphur recovered from pyrites ..	9,671	10,706	14,202	13,903	15,510	16,697	9,545	10,566	14,032	13,722	15,308	16,480

\* See also Pyrites (page 280).

(a) Information not available.

(c) Consumed by the sulphuric acid industry.

(d) Recovered from natural gas.

(b) Estimated.

(e) Derived from sulphur rock above.

PRODUCTION OF SULPHUR (cont.)

Producing Country and Description	Estimated Sulphur Content																				
	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957											
<b>FOREIGN COUNTRIES (cont.)</b>																					
Spain—																					
Sulphur rock	18,494	37,679	50,277	49,846	35,795	58,852															
Refined sulphur (e)	33,648	32,985	37,085	36,998	39,412	39,730															
Sweden—																					
Sulphur	12,138	11,769	14,406	14,796	17,781	23,702															
Mexico—																					
Mined	2,100	9,600	9,600	10,904	11,784	6,000															
Refined sulphur (f)	—	—	—	19,444	36,504	27,591															
United States—																					
Crude sulphur (g)	4,869,210	4,745,014	5,192,184	5,278,249	5,293,145	5,224,202	4,869,210	4,745,014	5,192,184	5,278,249	5,293,145	5,224,202	4,869,210	4,745,014	5,192,184	5,278,249	5,293,145	5,224,202	4,869,210	4,745,014	5,192,184
Sulphur ore (h)	1,832	5,678	3,327	3,945	8,536	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Smelter gas (b)	(a)	(a)	661,529	736,672	774,177	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
By-product sulphur (c)	(a)	(a)	146,183	187,109	254,287	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Hydrogen sulphide (c)	(a)	(a)	46,977	70,257	77,307	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Argentina—																					
Refined sulphur	8,388	9,912	7,662	7,560	18,300	21,000															
Bolivia (exports)—																					
Refined sulphur	2,685	4,398	4,307	7,638	5,497	2,458															
Chile—																					
Refined sulphur	(a)	(a)	(a)	29,820	47,821	(a)	13,124	7,599	22,065	29,672	47,582	29,672	13,124	7,599	22,065	29,672	47,582	29,672	13,124	7,599	22,065
Colombia—																					
Refined sulphur	—	—	1,461	2,274	2,566	2,660	—	—	(a)	(a)	(a)	(a)	—	—	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Ecuador—																					
Sulphur	43	16	27	1	2,600	1,000	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Peru—																					
Crude	—	—	—	2,018	—	(a)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refined sulphur	1,842	87	2,111	1,040	5,066	(a)	1,833	87	2,100	1,211	5,041	1,211	1,833	87	2,100	1,211	5,041	1,211	1,833	87	2,100
Formosa—																					
Refined sulphur	(a)	(a)	72	2,732	5,001	3,423	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Iran—																					
Sulphur (d)	600	1,500	1,500	1,500	1,500	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Japan—																					
Refined sulphur	39,964	61,493	91,960	140,181	176,651	186,555	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Turkey—																					
Refined sulphur	2,556	2,995	6,502	7,273	8,248	9,693	2,530	2,992	6,495	7,266	8,240	2,530	2,992	6,495	7,266	8,240	2,530	2,992	6,495	7,266	8,240

Sulphur is also produced in U.S.S.R. and Manchuria.

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

(c) Derived partly from sulphur rock above but in the main recovered from pyrites.

(a) Information not available.

(b) Produced in treatment of industrial gases.

(c) Estimated.

(d) Recovered from natural gas.

(e) Frasch-process mines.

(f) For agricultural use.

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

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom ..	3,893	2,617	6,057	430	1,162	1,181
Union of South Africa ..	751	46	27	25	98	(a)
Canada .. .. .	—	—	58	39	—	4,136
Hong Kong (re-exports)	1,300	2,648	5,065	638	92	—
Malaya (including re-exports) .. ..	32	85	54	16	13	4
Australia— Zinc concentrates (S content) (b) ..	(c) 45,551	40,500	47,500	42,100	61,600	63,500
<b>FOREIGN COUNTRIES</b>						
Belgium-Luxemburg E.U. . . . .	1,668	1,847	2,740	4,741	2,761	3,356
France— Rock .. .. .	393	93	40	308	470	28
Crude .. .. .	1,733	1,764	916	2,618	3,632	1,774
Unrefined ground ..	2,025	1,718	1,405	3,277	1,512	644
Refined lump .. ..	9,274	12,937	10,005	10,796	3,446	2,423
Flowers of sulphur ..	886	317	57	313	248	85
Precipitated sulphur ..	700	321	6	8	20	2
Germany (Federal)	19	30	7,127	1,323	8,580	18,315
Italy .. .. .	81,705	71,938	235,934	105,923	78,180	12,507
Norway .. .. .	53,385	61,356	74,959	69,062	60,655	64,836
Portugal .. .. .	40	208	59	6,685	2,660	480
Spain— Crude .. .. .	—	—	—	1,364	1,025	(a)
Refined .. .. .	183	2,301	1,331	4,340	991	(a)
Sweden .. .. .	128	29	112	157	375	4,488
Algeria— Rock .. .. .	—	1	—	9	—	—
Refined and flowers of sulphur .. .. .	—	1	1	—	—	5
Mexico .. .. .	1,691	325	631	6,844	8,940	4,462
United States— Crude .. .. .	1,262,913	1,443,540	1,440,996	1,283,073	1,304,154	1,241,536
Refined and flowers of sulphur .. .. .	32,630	30,051	37,526	24,044	34,213	29,475
Bolivia .. .. .	2,685	4,398	4,307	7,638	5,497	2,458
Chile .. .. .	197	19	3,000	11,800	29,100	(a)
Peru .. .. .	973	248	98	2,875	4,635	(a)
Iran— Crude .. .. .	(a)	(a)	(a)	711	(a)	(a)
Refined .. .. .	(a)	(a)	(a)	294	(a)	(a)
Japan .. .. .	650	(a)	542	3	43,290	—
Turkey .. .. .	(a)	(a)	(a)	1,104	(a)	(a)

(a) Information not available.

(b) Estimated amount recoverable.

(c) Years ended June 30 of that stated.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom ..	347,735	392,012	438,551	377,220	407,139	196,736
Malta—						
Flowers of sulphur ..	(£3,902)	(£1,857)	(£6,259)	215	36	159
Kenya (b) ..	719	129	526	(g) 204	310	59
Mauritius ..	(a)	5	(g) 32	—	5	—
Northern Rhodesia ..	193	2	2	2	1	1
South West Africa ..	37	45	9	11	76	(a)
Southern Rhodesia ..	17	15	17	17	14	28
Tanganyika ..	10	—	—	—	76	36
Uganda ..	(c)	214	450	208	198	326
Union of South Africa ..	44,892	61,438	67,246	59,503	72,558	72,927
British Guiana ..	8	1	7	8	3	(g) 1
Canada (d) ..	316,627	250,497	348,511	353,404	370,668	320,629
Newfoundland (e) ..	13,041	(e)	(e)	(e)	(e)	(e)
Trinidad and Tobago ..	(a)	(a)	(a)	1,387	416	13
Ceylon ..	639	380	71	382	4,077	2,454
Cyprus ..	936	1,222	118	1,188	1,051	2,038
Hong Kong (total imports) ..	2,185	3,003	10,026	33	10	—
India (total imports) ..	37,224	39,426	56,488	38,507	65,776	51,884
Malaya (total imports) ..	61	225	529	180	150	120
Pakistan (h) ..	(a)	(a)	(a)	318	500	569
Australia ..	144,084	144,037	191,790	99,382	111,404	146,281
New Zealand ..	54,393	64,854	62,499	73,759	79,245	87,399
Irish Republic ..	148	232	284	238	284	183
<b>FOREIGN COUNTRIES</b>						
Austria ..	2,559	17,829	30,713	18,911	20,845	18,894
Belgium-Luxemburg ..						
E.U. ...	85,241	87,241	62,444	59,211	40,158	30,246
Czechoslovakia—						
Crude and ground ..	(f) 16,818	(a)	(a)	(a)	(a)	(a)
Flowers of sulphur ..	(f) 91	(a)	(a)	(a)	(a)	(a)
Denmark ..	1,625	802	1,182	785	573	87
Finland (total imports) ..	20,691	19,264	22,281	35,936	27,215	20,417
France—						
Rock ..	30	34	13	2,382	—	—
Crude ..	119,249	162,460	143,230	119,814	116,440	101,799
Unrefined ground ..	280	1	11	32	—	43
Refined lump ..	—	9	—	—	1,969	4,728
Flowers of sulphur ..	—	200	21	—	20	20
Precipitated ..	8	9	9	7	25	10
Germany (Federal) ..	12,306	24,196	30,457	20,231	32,934	14,556
Greece ..	10,478	2,766	16,555	11,808	7,875	10,769
Iceland ..	2	—	—	—	(a)	(a)
Netherlands ..	4,993	4,078	2,653	3,274	1,776	836
Norway ..	47	71	183	69	74	146
Portugal—						
Crude ..	700	200	200	195	—	4,429
Flowers of sulphur ..	113	64	52	2	10	40
Other sulphur ..	21	20	7	6	8	20

(a) Information not available.

(c) Included with Kenya.

(b) Including Uganda up to 1948 inclusive.

(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) Years ended March 31 following that stated.

## IMPORTS OF SULPHUR (cont.)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
Spain—						
Crude .. .. .	1,968	2,399	11,522	2,801	14	(a)
Refined .. .. .	79	3,536	30	50	44	(a)
Sweden .. .. .	54,795	49,919	52,206	60,263	40,220	33,511
Switzerland—						
Crude and ground	44,136	8,685	27,579	16,280	19,647	22,593
Flowers of sulphur	130	177	270	329	244	122
Yugoslavia .. .. .	(a)	(a)	4,351	2,397	5,353	(a)
Algeria—						
Rock .. .. .	98	2	34	42	229	20
Crude .. .. .	8,211	18,809	14,969	16,073	18,694	14,160
Unrefined, ground	1,532	1,006	925	2,409	1,207	486
Refined .. .. .	7,096	7,085	2,291	5,109	915	489
Flowers of sulphur	1,027	251	34	182	177	28
Precipitated .. .. .	637	48	2	5	15	—
Belgian Congo .. .. .	(a)	(a)	90	109	254	220
Egypt .. .. .	3,995	4,716	9,281	5,034	4,768	5,730
Madagascar .. .. .	75	(a)	(a)	(a)	(a)	(a)
Morocco (French)—						
Crude .. .. .	38	4,848	4,500	(a)	3,842	(a)
Refined .. .. .	1,286	1,250	2,301	(a)	1,090	(a)
Morocco (Spanish) .. .. .	(a)	(a)	(a)	(a)	(a)	(a)
Mozambique .. .. .	302	278	612	1,025	159	(a)
Tunis—						
Crude .. .. .	8,225	8,862	4,523	2,768	(a)	18,336
Refined and flowers of sulphur	5	214	26	253	(a)	132
Costa Rica .. .. .	53	(a)	(a)	(a)	(a)	(a)
Cuba (total imports) .. .. .	3,659	5,679	14,027	8,352	(a)	(a)
Guatemala .. .. .	121	113	124	113	92	(a)
Mexico .. .. .	4,718	7,045	11,227	10,478	5,978	7,384
Salvador .. .. .	79	83	113	(a)	(a)	(a)
United States .. .. .	38	32	25	2,376	4,863	1,229
Argentina—						
Crude .. .. .	28,348	26,900	22,684	10,999	26,332	31,331
Refined and flowers of sulphur	(a)	(a)	(a)	(a)	75	52
Brazil (total imports) .. .. .	31,353	44,572	66,704	58,597	79,709	(a)
Colombia .. .. .	(a)	669	2,042	(a)	(a)	(a)
Ecuador .. .. .	78	204	204	(a)	(a)	(a)
Peru .. .. .	271	830	630	636	2,671	(a)
Uruguay .. .. .	4,165	4,548	14	1,393	(a)	(a)
Venezuela .. .. .	287	124	(a)	(a)	(a)	(a)
China .. .. .	(a)	(a)	(a)	(a)	(a)	(a)
Iran (b) .. .. .	(a)	(a)	(a)	—	(a)	(a)
Israel .. .. .	(a)	3,608	2,138	(a)	(a)	(a)
Lebanon .. .. .			636	540	(a)	(a)
Syria .. .. .	818	739	398	299	(a)	(a)
Turkey—						
Refined and flowers of sulphur	2	2,247	130	—	109	74

(a) Information not available.

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



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

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Great Britain .. ..	4,000	3,000	1,700	2,500	2,586	3,940
Kenya (b) .. ..	10	83	10	—	—	—
Southern Rhodesia .. ..	—	—	—	—	—	5
Union of South Africa .. ..	4,820	5,301	3,915	5,573	8,537	7,120
Canada (shipments) .. ..	25,696	24,038	29,111	22,184	22,350	24,471
India .. ..	18,096	21,195	25,485	33,647	20,772	28,571
Australia—						
Talc .. ..	5,690	8,029	9,047	12,596	7,320	9,806
Pyrophyllite .. ..	411	550	648	552	285	129
<b>FOREIGN COUNTRIES</b>						
Austria .. ..	48,742	55,165	57,754	71,634	50,096	50,426
France .. ..	90,070	98,475	86,035	101,615	107,914	153,000
Germany (Federal) .. ..	(a)	8,707	13,104	18,886	10,485	10,766
Greece .. ..	1,033	1,673	2,500	2,584	1,200	—
Italy .. ..	69,318	60,491	66,548	74,796	79,067	79,014
Norway .. ..	56,322	53,447	63,081	75,271	63,062	60,579
Portugal .. ..	21	3	2	1	6	16
Spain .. ..	18,332	20,551	13,486	22,271	18,121	18,578
Sweden .. ..	11,518	11,115	11,784	11,454	7,607	—
Egypt .. ..	5,434	5,485	3,675	3,698	4,826	2,240
United States—						
Talc .. ..	375,587	328,950	446,321	(d) 464,665	(d) 424,475	(e) 446,000
Pyrophyllite .. ..	96,326	81,179	104,286	107,171	112,050	(e) 112,000
Argentina .. ..	(a)	(a)	(a)	(e) 15,000	(e) 16,000	(a)
Brazil .. ..	10,573	17,501	12,432	11,125	19,164	(a)
Chile .. ..	257	108	140	25	(a)	(a)
Peru .. ..	(a)	(a)	(a)	129	122	(a)
Uruguay .. ..	2,937	650	670	944	668	605
Afghanistan .. ..	(a)	(a)	(a)	830	790	600
Formosa .. ..	(a)	(a)	(a)	2,025	1,076	1,730
Japan—						
Talc .. ..	13,677	12,385	12,200	12,011	10,401	14,198
Pyrophyllite .. ..	220,919	245,609	265,901	382,288	302,956	309,188
Korea (South) .. ..	71	7,601	7,367	3,157	3,901	8,463
<b>TOTAL*</b> .. ..	<b>1,108,000</b>	<b>1,073,000</b>	<b>1,240,000</b>	<b>(d)1,460,000</b>	<b>(d)1,296,000</b>	<b>1,380,000</b>

\*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): 1948—312; 1949—497; 1950—318; 1951—332; 1952—231; 1953—155.

(c) Pyrophyllite.

(d) Revised.

(e) Estimated.

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

Exporting Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Canada (b) .. ..	4,511	3,770	3,989	3,342	3,067	2,623
Newfoundland (c) ..	—	(c)	(c)	(c)	(c)	(c)
India .. ..	3,683	2,802	4,188	5,344	4,060	7,384
Malaya (re-exports) ..	471	508	613	651	539	(a)
Australia .. ..	5	11	—	22	1	4
<b>FOREIGN COUNTRIES</b>						
Austria .. ..	19,657	22,720	27,150	34,984	30,442	32,589
Belgium-Luxemburg ..						
E. U. .. ..	68	36	33	120	83	48
Czechoslovakia .. ..	(d) 153	(a)	(a)	(a)	(a)	(a)
France .. ..	23,324	21,053	30,115	35,081	23,115	24,278
Germany (Federal) ..	(a)	43	169	424	938	306
Greece .. ..	54	128	1,771	(a)	(a)	(a)
Italy .. ..	31,925	23,489	27,055	32,021	26,117	32,623
Norway .. ..	37,624	35,317	44,274	50,562	39,685	39,895
Egypt .. ..	1,656	1,819	918	2,739	2,005	(a)
United States .. ..	14,578	14,143	18,432	20,449	20,498	20,599
Korea (South) .. ..	(a)	(a)	4,331	2,018	4,570	5,947

(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	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Unground .. .. .	814	1,271	513	1,135	1,200	956
Ground .. .. .	19,585	23,367	27,028	34,944	26,308	28,767
Canada .. .. .	6,947	6,490	7,990	8,289	7,810	10,580
Ceylon .. .. .	(a)	(a)	(a)	(a)	(a)	296
Cyprus .. .. .	11	37	30	21	15	(a)
India .. .. .	—	—	—	—	—	—
Malaya (total imports) ..	319	573	430	558	504	(a)
Australia .. .. .	290	370	286	359	72	164
<b>FOREIGN COUNTRIES</b>						
Belgium-Luxemburg						
E.U. .. .. .	6,409	4,936	6,165	8,234	8,025	7,598
Czechoslovakia .. .. .	(b) 320	(a)	(a)	(a)	(a)	(a)
Denmark .. .. .	5,545	5,858	6,842	7,979	6,297	6,962
Finland (total imports)	2,430	3,218	3,810	5,048	3,019	1,221
France .. .. .	3,092	357	725	1,938	924	1,819
Germany (Federal) .. .. .	12,589	11,755	17,434	18,583	21,099	23,673
Italy .. .. .	3	2	(a)	5	125	262
Netherlands .. .. .	14,417	9,629	12,049	11,582	9,581	10,586
Portugal .. .. .	190	431	622	553	381	554
Sweden .. .. .	(a)	1,981	1,044	1,845	2,572	1,511
Yugoslavia .. .. .	(a)	(a)	123	93	73	101
Algeria .. .. .	1,451	823	950	1,546	1,689	1,718
Belgian Congo .. .. .	(a)	(a)	66	152	179	148
Egypt (total imports) ..	90	191	876	2,499	329	294
Morocco (French) .. .. .	(a)	226	373	(a)	374	(a)
Morocco (Spanish) .. .. .	(a)	(a)	(a)	(a)	(a)	(a)
Tunis .. .. .	127	(a)	(a)	(a)	(a)	(a)
Mexico .. .. .	909	837	932	1,230	1,719	942
United States .. .. .	16,408	16,800	20,872	18,430	18,127	20,360
Brazil .. .. .	202	31	(a)	15	—	(a)
Colombia .. .. .	(a)	169	169	(a)	(a)	(a)
Peru .. .. .	105	262	172	376	386	(a)
Venezuela .. .. .	251	254	(a)	(a)	(a)	(a)
Japan (total imports) ..	958	886	2,304	4,509	6,641	13,082
Philippine Republic .. .. .	(a)	(a)	873	1,267	(a)	(a)
Lebanon .. .. .	} 170	} 195	112	104	(a)	(a)
Syria .. .. .	} 170	} 195	88	33	(a)	(a)
Turkey .. .. .	(a)	(a)	70	117	99	(a)

(a) Information not available.

(b) January to October only.

## TANTALUM AND NIOBIUM MINERALS

### PRODUCTION OF TANTALUM AND NIOBIUM MINERALS

(Long tons)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Nigeria—						
Tantalite .. ..	4	2	1	3	1	—
Columbite .. ..	1,096	888	864	1,078	1,293	1,959
Southern Rhodesia—						
Tantalum concentrates	8	5	1	—	4	13
Columbite .. ..	—	—	—	—	1	3
South West Africa—						
Tantalite and columbite	(17lbs.)	3	6	2	2	8
Uganda—						
Tantalite .. ..	} 1 { (210lbs.)	—	—	—	} 5 { (3,248lbs.)	13
Columbite .. ..		3	3	6		2
Tin-columbite .. ..		—	(1,210lbs.)	(336lbs.)		(3,248lbs.)
Union of South Africa—						
Tantalite .. ..	—	—	2	3	4	17
British Guiana—						
Columbite .. ..	—	—	—	—	—	5
Malaya—						
Columbite .. ..	—	—	8	25	47	52
Australia—						
Tantalite and columbite	5	2	7	2	7	8
<b>FOREIGN COUNTRIES</b>						
Norway—						
Niobium concentrates	—	—	—	—	—	555
Portugal—						
Tantalite and columbite	—	—	—	—	—	137
Belgian Congo (b)—						
Tantalite and columbite concentrates .. ..	143	114	133	94	103	279
Tin-tantalite-columbite	513	867	1,086	1,159	1,256	1,596
French Equatorial Africa—						
Tantalite and columbite	2	6	2	—	2	2
Madagascar—						
Columbite .. ..	—	—	—	4	3	4
Mozambique—						
Columbite .. ..	—	(570lbs.)	5	5	15	26
United States—						
Tantalite .. ..	(500lbs.)	} (1,020lbs.)	(1,000lbs.)	(925lbs.)	} — 2 {	7
Columbite .. ..	(100lbs.)		—	—		
Bolivia (exports)—						
Columbite .. ..	—	—	—	—	—	3
Brazil (exports)—						
Tantalite .. ..	4	41	(a)	4	24	18
Columbite .. ..	5	12	(a)	5	2	30
French Guiana—						
Tantalite and columbite	(a)	(a)	(a)	(a)	(a)	6

(a) Information not available.

(b) In addition exports of tantaliferous slag amounted to 782 tons, 6,699 tons, 834 tons, and 72 tons in 1950, 1951, 1952 and 1953 respectively.

**EXPORTS OF TANTALUM AND NIOBIUM MINERALS**  
(Domestic Produce)  
(Long tons)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Tantalum .. .. .	4	—	(a)	(a)	(a)	(a)
Nigeria—						
Tantalite .. .. .	2	—	3	2	1	—
Columbite .. .. .	1,239	945	916	1,092	1,228	1,855
South West Africa—						
Tantalite .. .. .	—	1	4	3	4	6
Southern Rhodesia—						
Columbite .. .. .	—	—	—	—	—	4
Tantalum concentrates	11	4	4	—	5	17
Uganda—						
Tantalite and columbite	1	2	5	5	4	11
Union of South Africa—						
Tantalite .. .. .	—	—	2	3	—	11
British Guiana—						
Columbite .. .. .	—	—	—	—	—	5
Malaya—						
Columbite .. .. .	—	—	(a)	(a)	55	20
Australia—						
Tantalite and columbite	4	1	6	4	2	38
<b>FOREIGN COUNTRIES</b>						
Portugal—						
Tantalite and columbite	(a)	(a)	(a)	(a)	(a)	108
Belgian Congo—						
Tantalite and columbite	125	193	488	234	212	161
Tantaliferous slag ..	—	—	782	6,699	824	72
French Equatorial Africa—						
Tantalite and columbite	2	6	2	—	(a)	(a)
Madagascar—						
Columbite .. .. .	—	—	—	—	2	5
United States—						
Tantalite .. .. .	(60lbs.)	1	—	(41lbs.)	(1,058lbs.)	9
Columbite .. .. .	(660lbs.)	8	49	—	(a)	(a)
Bolivia—						
Columbite .. .. .	—	—	—	—	—	3
Brazil—						
Tantalite .. .. .	4	41	(a)	4	24	18
Columbite .. .. .	5	12	(a)	5	2	30

Niobium concentrates were exported from Norway in 1953 but figures are not separately recorded.  
(a) Information not available.

**IMPORTS OF TANTALUM AND NIOBIUM MINERALS**  
(Less Re-exports)  
(Long tons)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Tantalite and columbite	329	387	586	538	577	344
Tantalum powder, sheet, etc. .. .. .	(317lbs.)	(131lbs.)	(187lbs.)	(377lbs.)	(184lbs.)	(373lbs.)
<b>FOREIGN COUNTRIES</b>						
United States—						
Tantalite .. .. .	52	61	147	106	147	336
Columbite .. .. .	878	695	771	681	838	1,872

(a) Information not available.

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

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Great Britain .. ..	862	898	889	837	918	935
Nigeria .. ..	9,237	8,825	8,258	8,539	8,303	8,228
Northern Rhodesia .. ..	—	7	4	2	11	7
Southern Rhodesia .. ..	114	74	66	59	36	29
South West Africa .. ..	111	119	90	75	(b) 96	(b) 165
Swaziland .. ..	20	32	37	32	36	36
Tanganyika .. ..	95	109	94	61	44	48
Uganda .. ..	176	174	139	120	107	90
Union of South Africa .. ..	457	471	643	761	935	1,361
Canada .. ..	309	276	355	155	95	488
Malaya .. ..	44,815	54,910	57,537	57,167	56,838	56,254
Australia .. ..	1,885	1,882	1,855	1,577	1,643	1,535
<b>TOTAL .. ..</b>	<b>58,080</b>	<b>67,777</b>	<b>69,967</b>	<b>69,385</b>	<b>69,062</b>	<b>69,176</b>
<b>FOREIGN COUNTRIES</b>						
France .. ..	76	73	81	190	282	498
Germany (Eastern) .. ..	156	157	191	257	395	563
Portugal .. ..	706	1,039	947	1,211	1,462	1,367
Spain .. ..	269	454	633	940	733	795
Belgian Congo .. ..	13,215	13,774	13,610	13,729	13,806	15,293
Cameroon (French) .. ..	102	72	66	72	86	86
Egypt .. ..	—	—	—	5	6	—
French West Africa .. ..	—	26	50	18	112	92
Morocco (French) .. ..	—	—	—	13	15	9
Mozambique .. ..	1	1	1	8	4	—
Mexico .. ..	182	358	440	366	413	476
United States .. ..	5	68	94	88	100	56
Argentina .. ..	273	268	267	242	265	158
Bolivia (c) .. ..	37,441	34,115	31,213	33,132	31,959	34,825
Brazil .. ..	172	206	180	197	174	(b) 180
Peru .. ..	64	51	38	3	31	—
Burma .. ..	1,147	1,781	1,520	1,624	1,103	(b) 960
China (smelter) (b) .. ..	4,800	4,200	4,000	4,800	5,400	6,300
French Indo-China .. ..	30	40	60	92	157	280
Indonesia .. ..	30,562	29,033	32,102	30,986	35,002	33,750
Japan .. ..	118	190	326	433	639	737
Siam .. ..	4,240	7,815	10,366	9,503	9,479	10,126
<b>Total .. ..</b>	<b>93,500</b>	<b>93,700</b>	<b>97,200</b>	<b>97,900</b>	<b>101,900</b>	<b>106,600</b>
<b>WORLD'S TOTAL .. ..</b> (excl. U.S.S.R.)	<b>151,600</b>	<b>161,500</b>	<b>167,200</b>	<b>167,300</b>	<b>171,000</b>	<b>175,800</b>

(a) Information not available.

(b) Estimated.

(c) Content of ore plus metal exported.

**SMELTER PRODUCTION OF TIN**  
(Long tons)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom (b) ..	31,002	28,384	28,500	27,650	29,521	28,860
Southern Rhodesia ..	127	75	80	63	37	27
Union of South Africa ..	554	595	718	829	694	828
Canada .. .. .	309	276	355	155	95	—
Malaya .. .. .	49,707	62,737	68,747	65,914	62,830	62,410
Australia .. ..	1,885	1,955	2,014	1,459	1,699	1,443
<b>TOTAL .. .. .</b>	<b>83,584</b>	<b>93,962</b>	<b>100,400</b>	<b>96,070</b>	<b>94,876</b>	<b>93,568</b>
<b>FOREIGN COUNTRIES</b>						
Belgium .. .. .	10,469	8,996	9,512	8,360	10,585	9,039
Germany—						
Federal Republic ..	—	(c) 130	586	581	758	694
Eastern .. .. .	156	157	191	257	364	(c) 480
Netherlands .. ..	16,402	19,247	21,027	20,977	27,913	26,950
Portugal .. .. .	282	218	209	313	340	472
Spain .. .. .	488	659	895	884	753	823
Belgian Congo .. ..	3,875	3,247	3,238	3,011	2,765	2,715
Mexico .. .. .	170	(c) 250	(c) 350	(c) 350	(c) 300	(c) 240
United States .. ..	36,703	35,834	33,118	31,852	22,805	37,562
Argentina .. .. .	254	235	253	206	(c) 250	(c) 240
Bolivia (exports) ..	105	—	388	39	257	174
Brazil .. .. .	185	157	118	133	116	(c) 120
China (c) .. .. .	4,800	4,200	4,000	4,800	5,400	6,300
French Indo China ..	31	—	—	—	—	—
Japan .. .. .	145	477	389	575	637	807
Siam .. .. .	—	—	2	—	17	—
<b>TOTAL .. .. .</b>	<b>74,000</b>	<b>73,800</b>	<b>74,300</b>	<b>72,300</b>	<b>73,300</b>	<b>86,600</b>
<b>WORLD'S TOTAL ..</b> (excl. U.S.S.R.)	<b>157,600</b>	<b>167,800</b>	<b>174,700</b>	<b>168,400</b>	<b>168,200</b>	<b>180,200</b>

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

	Long tons		Long tons
1948 .. .. .	26,896	1951 .. .. .	30,745
1949 .. .. .	22,233	1952 .. .. .	28,804
1950 .. .. .	31,680	1953 .. .. .	27,600

(a) Information not available.

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

(c) Estimated.

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

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Blocks, ingots, bars and slabs .. .. .	2,216	4,204	15,460	4,912	12,565	13,759
Soft solder .. .. .	1,256	1,362	2,053	2,618	1,828	1,768
Tin-foil .. .. .	278	210	255	120	48	52
Nigeria—						
Ore .. .. .	12,169	12,676	11,417	11,753	10,575	12,136
Southern Rhodesia—						
Ore and concentrates ..	43	—	82	—	—	22
Blacks, ingots and bars ..	12	3	5	5	2	4
South West Africa—						
Ore (b) .. .. .	146	91	67	75	127	183
Tanganyika—						
Ore and concentrates ..	133	140	142	93	58	68
Uganda—						
Ore .. .. .	283	185	260	155	159	125
Union of South Africa—						
Bars, sheets, etc. ..	—	—	—	—	1	(a)
Hong Kong						
(re-exports)—						
Slabs and ingots ..	2,080	4,193	1,136	101	28	56
India—						
Blocks, ingots, bars, slabs and scrap ..	242	—	—	—	2,244	744
Malaya—						
Ore .. .. .	40	—	9	1	—	61
Ingots, blocks, bars, slabs .. .. .	47,215	54,783	81,805	64,956	64,119	61,752
Australia—						
Ore and concentrates ..	(c) 25	(d) 11	(d) 5	(d) 41	(d) 21	(d) 12
Ingots .. .. .	—	1	—	—	631	81
<b>FOREIGN COUNTRIES</b>						
Belgium-Luxemburg						
E.U.—						
Crude .. .. .	10,356	9,809	10,193	8,484	9,948	9,029
Scrap .. .. .	24	63	57	68	52	49
Sheets, wire, etc. ..	10	—	7	4	2	—
Denmark—						
Crude .. .. .	218	117	399	11	113	64
Scrap .. .. .	2	—	—	10	—	1
France—						
Ore .. .. .	—	—	129	300	217	147
Pigs, bars, etc. .. .. .	108	77	174	172	143	196
do. (alloys) .. .. .	218	265	503	320	277	338
Scrap .. .. .	—	9	25	12	4	—
Sheets and wire .. .. .	123	115	62	82	65	29
Germany (Federal)—						
Crude, scrap and alloys	—	371	931	302	1,111	1,789
Sheets and wire .. .. .	—	—	26	23	2	(a)
Tin-foil .. .. .	—	—	—	1	3	(a)

(a) Information not available.

(b) Excluding tin-tungsten ore.

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

(d) *Sn content* during calendar years.



## EXPORTS OF TIN (cont.)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
FOREIGN COUNTRIES (cont.)						
Italy—						
Ingots, bars, scrap, sheets, alloys, etc. ..	13	100	2	5	4	25
Netherlands—						
Ore .. .. .	4	—	—	—	—	—
Blocks .. .. .	12,252	19,248	17,847	19,383	25,432	29,277
Sheets, wire, etc. ..	6	(a)	2	1	—	1
Norway—						
Ingots and bars ..	111	116	152	151	189	202
Portugal—						
Ore .. .. .	636	1,214	1,156	1,009	1,617	1,096
Bars .. .. .	199	51	3	14	124	10
Spain—						
Ingots and bars ..	440	5	176	3	395	394
Sweden—						
Crude and scrap ..	—	54	5	12	15	33
Switzerland—						
Pigs, bars, slabs, sheets, etc. .. .. .	8	7	36	9	26	14
Tin-foil .. .. .	24	2	3	6	1	2
Scrap .. .. .	1	19	133	288	171	106
Algeria—						
Ingots, scrap and alloys	—	37	34	44	7	33
Belgian Congo—						
Ore .. .. .	14,394	13,474	15,755	13,477	15,777	20,090
Ingots .. .. .	3,860	4,517	3,921	2,655	2,815	2,858
Cameroon (French)—						
Ore .. .. .	113	143	110	102	128	59
French West Africa—						
Ore .. .. .	—	—	128	93	151	169
Morocco (French)—						
Ore .. .. .	(a)	—	—	—	—	—
Mozambique—						
Ore .. .. .	—	—	—	—	(a)	(a)
Mexico—						
Ores and concentrates	34	94	13	2,173	621	163
<i>Sn content</i> .. .. .	12	33	5	(a)	243	262
Crude and scrap ..	239	(a)	—	—	—	—
United States						
Ingots, pigs, etc. ..	78	76	287	264	301	128
Scrap .. .. .	9,138	9,225	2,801	5,519	6,304	5,074
Tubes, sheets, foil ..	45	36	27	24	15	42
Bolivia—						
Ores, concentrates, etc. ( <i>Sn content</i> ) .. ..	37,336	34,115	30,825	33,093	31,702	34,651
Metal .. .. .	105	—	388	39	257	174
Peru—						
Bars, impure ( <i>Sn content</i> ) ..	64	51	45	29	34	(a)
Burma—						
Ore and concentrates ( <i>Sn content</i> ) .. ..	1,833	1,511	1,416	1,477	1,393	(b) 960
China—						
Ingots and slabs ..	3,850	(b) 3,000	(b) 3,000	(b) 3,900	(b) 3,900	(a)
French Indo-China—						
Ore ( <i>Sn content</i> ) ..	33	286	259	92	(a)	(a)
Ingots and scrap ..	94	274	259	182	(a)	(a)
Indonesia—						
Ore ( <i>Sn content</i> ) (c) ..	32,521	30,746	30,834	30,264	34,055	32,215
Siam—						
Ore ( <i>Sn content</i> ) ..	5,651	7,977	10,955	8,809	9,488	10,029

(a) Information not available.

(b) Estimated.

(c) Revised.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Ore and concentrates ..	48,440	46,655	46,130	50,610	55,084	62,363
Blocks, ingots, bars and slabs .. .. .	158	538	} 4,069	9,927	(e) 6,275	354
Soft solder .. .. .	7	5				
Anglo-Egyptian Sudan—						
Unwrought incl. scrap	24	12	8	30	7	15
Kenya (g)						
Unwrought incl. scrap	(e) 190	26	35	37	(e) 9	7
Bars, plates and sheets ..	17	10	—	—	—	10
Solder .. .. .	78	94	65	64	67	84
Mauritius—						
Ingots, sheets, etc. ..	(a)	1	4	11	—	26
Southern Rhodesia—						
Blocks, ingots and bars	10	3	26	33	61	59
South West Africa—						
Bars, sheets, etc. ..	1	1	—	—	1	(a)
Tanganyika—						
Unwrought incl. scrap	9	1	(e) 1	7	5	—
Bars, plates and sheets ..	1	22	5	—	—	5
Solder .. .. .	30	30	38	57	85	27
Uganda—						
Solder .. .. .	(h)	16	11	11	16	20
Union of South Africa—						
Blocks, ingots, bars and rods .. .. .	568	635	773	1,224	530	183
Tin-foil .. .. .	15	8	14	10	5	(a)
Canada (c)—						
Blocks, pigs and bars ..	3,598	3,676	4,817	6,135	3,949	3,702
Tin-foil .. .. .	1	3	15	4	1	7
Newfoundland (d)—						
Bars, sheets, ingots, etc.	154	(d)	(d)	(d)	(d)	(d)
Aden—						
Blocks, ingots, etc. ..	12	(e) 5	386	(e) 3	37	(e) 5
Ceylon—						
Ingots, slabs, etc. ..	44	6	15	33	9	5
Tin solder .. .. .	32	23	26	23	23	40
Cyprus—						
Ingots and bars ..	19	1	13	6	7	10
Hong Kong (total imports)—						
Slabs and ingots ..	2,969	3,182	595	205	114	176
India—						
Blocks, ingots, bars and slabs .. .. .	582	} 3,876	4,737	2,905	2,177	2,938
do. (Government stores)	200					
Malaya (b)—						
Ore .. .. .	4,848	9,053	13,559	10,539	7,948	8,648
Bars, sheets, wire, etc. . .	167	30	28	2	—	38
Pakistan (f)—						
Blocks, ingots, bars and slabs .. .. .	(a)	(a)	(a)	246	61	181
Australia—						
Ingots .. .. .	276	270	249	2,723	180	623
Rods, sheets, tubes, etc. (i)	1	9	1	—	—	—
Leaf and foil (i) ..	237	164	171	90	35	4
New Zealand—						
Ingots, etc. .. .. .	425	316	136	450	243	337

(a) Information not available.

(b) Total imports.

(c) Including Newfoundland from April 1, 1949

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

(e) Excess of re-exports.

(f) Years ended March 31 following that stated.

(g) Including Uganda up to 1948 inclusive.

(h) Included with Kenya.

(i) Years ended June 30 of that stated.

## IMPORTS OF TIN (cont.)

Importing Country and Description	1948	1949	1950	1951	1952	1953
Irish Republic—						
Ingots, bars, slabs, etc.	47	63	84	79	34	56
Soft solder .. .. .	166	114	131	155	36	(a)
Tin-foil .. .. .	33	3	26	19	(a)	(a)
FOREIGN COUNTRIES						
Austria—						
Crude and alloys ..	(a)	630	581	894	306	340
Belgium-Luxembourg						
E. U.—						
Ore .. .. .	14,987	11,885	12,844	12,097	12,989	14,319
Crude .. .. .	1,783	1,243	1,431	1,959	1,262	1,410
Scrap .. .. .	10	1	—	—	—	—
Sheets, wire, etc. ..	—	3	—	4	—	1
Czechoslovakia—						
Crude, scrap and alloys	(b) 1,203	(a)	(a)	(a)	(a)	(a)
Denmark—						
Crude .. .. .	706	344	1,036	1,010	1,183	2,750
Scrap .. .. .	—	—	18	107	258	501
Sheets, wire, etc. ..	5	3	28	44	33	51
Tin-foil .. .. .	6	8	26	18	6	7
Finland (total imports)—						
Ingots, bars and scrap ..	437	418	430	719	236	275
Tin solder .. .. .	46	46	123	135	49	37
France—						
Ore .. .. .	80	177	—	—	—	—
Pigs, bars, etc. .. ..	7,618	4,410	5,664	9,650	6,521	6,976
do. alloyed .. .. .	563	47	50	75	245	38
Scrap .. .. .	215	85	28	54	68	38
Sheets and wire .. ..	8	21	5	3	—	—
Germany (Federal)—						
Ore .. .. .	—	1,085	4,899	1,862	2,208	794
Crude and scrap .. ..	1,844	3,999	8,614	8,164	6,410	5,893
Sheets and wire .. ..	1	—	—	—	1	(a)
Greece .. .. .	52	236	291	166	209	161
Italy—						
Ingots, bars, scrap and						
alloys .. .. .	1,161	1,646	4,174	4,391	3,203	2,054
Sheets, tubes, wire and						
alloys .. .. .	17	9	6	—	—	1
Netherlands—						
Ore .. .. .	24,339	23,990	29,702	26,966	36,717	35,937
Blocks .. .. .	359	462	118	2,313	6,041	5,100
Sheets, wire, etc. ..	—	—	—	—	—	—
Norway—						
Crude .. .. .	443	197	441	506	395	282
Bars, sheets, filings, etc.	200	138	51	46	50	47
Portugal—						
Sheets, wire, etc. ..	—	—	—	1	2	1
Spain—						
Ingots and bars .. ..	99	178	213	372	139	58
Sweden—						
Crude .. .. .	1,402	283	1,285	1,171	857	491
Switzerland—						
Pigs, bars and slabs ..	787	370	1,208	1,220	513	525
Sheets, wire, foil, etc.	7	2	5	4	6	6
U.S.S.R.—						
Blocks, ingots, etc. (c) ..	—	—	635	100	250	(a)
Yugoslavia—						
Ingots .. .. .	(a)	(a)	378	550	316	504

(a) Information not available.

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

(b) January to October only.

## IMPORTS OF TIN (cont.)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
Algeria—						
Crude, sheets and alloys, etc. . . . .	251	139	119	158	180	209
Egypt—						
Crude and scrap . . . . .	555	263	501	664	548	227
Madagascar—						
Bars, sheets, etc. . . . .	29	85	87	30	34	(a)
Morocco (French)—						
Ingots, etc. . . . .	237	175	273	256	184	(a)
Mozambique—						
Bars, sheets, etc. . . . .	6	1	1	1	3	(a)
Tunis—						
Pigs, bars and sheets . . . . .	61	74	56	92	484	(a)
Cuba (total imports)—						
Ingots . . . . .	49	28	75	52	(a)	(a)
Bars, sheets, etc. . . . .	14	17	38	31	(a)	(a)
Mexico—						
Ingots . . . . .	167	65	366	302	289	115
United States—						
Ore ( <i>Sn content</i> ) . . . . .	37,388	38,311	26,027	29,628	26,491	35,973
Blocks, pigs, bars, etc. . . . .	48,797	60,224	82,916	27,784	80,452	74,538
Scrap . . . . .	86	48	148	147	376	162
Argentina—						
Ingots and sheets . . . . .	1,659	630	968	4,669	69	314
Brazil (total imports)—						
Ingots and bars . . . . .	1,203	946	1,552	3,313	1,221	(a)
Colombia—						
Ingots, bars, sheets, etc. . . . .	(a)	32	92	24	56	(a)
Chile—						
Ore . . . . .	150	98	116	100	74	(a)
Ingots . . . . .	142	100	551	290	197	(a)
Bars and sheets . . . . .	(a)	26	39	30	56	(a)
Peru—						
Bars, sheets, etc. . . . .	(a)	33	60	32	48	(a)
Uruguay—						
Ingots, etc. . . . .	82	34	163	95	(a)	(a)
Venezuela—						
Crude . . . . .	63	57	138	86	(a)	(a)
China—						
Ingots and slabs . . . . .	} (a)	(a)	(a)	(a)	(a)	(a)
Tin and lead foils . . . . .						
Iran (total imports) (b)—						
Ingots, sheets and wire . . . . .	21	2	13	58	(a)	(a)
Iraq—						
Crude, etc. . . . .	38	9	44	26	(a)	(a)
Israel—						
Ingots, blocks and slabs . . . . .	82	49	44	(a)	(a)	(a)
Japan—						
Ingots and slabs . . . . .	(a)	2,462	600	2,078	1,744	4,973
Syria and Lebanon—						
Ingots and sheets . . . . .	36	40	20	(a)	(a)	(a)
Turkey—						
Ingots, bars and sheets . . . . .	743	566	1,093	787	624	(a)

(a) Information not available.

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

**TITANIUM MINERALS**  
**PRODUCTION OF TITANIUM MINERALS**  
(Long tons)

Producing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Union of South Africa—						
Rutile .. .. .	—	—	—	—	—	9
Canada (shipments) (b) ..						
Titanium ore .. .. .	3,965	482	91,045	333,737	237,912	115,432
India—						
Ilmenite .. .. .	229,416	308,180	212,663	224,084	224,895	215,130
Rutile .. .. .	127	—	36	45	147	104
Malaya (exports)—						
Ilmenite ("Amang") ..	13,566	19,718	24,915	43,493	21,698	26,570
Australia—						
Ilmenite concentrates ..	11,498	10,875	(h) 13,554	(h) 12,996	(h) 7,712	(h) 7,815
Estimated ilmenite content of all ilmenite-bearing concentrates (c) .. .. .	11,273	9,728	12,221	11,900	7,153	(a)
Rutile concentrates ..	13,387	13,094	18,312	35,189	38,014	38,039
Estimated rutile content of all rutile-bearing concentrates (d) ..	15,007	13,738	17,701	34,973	37,323	(a)
<b>FOREIGN COUNTRIES</b>						
Finland—						
Ilmenite concentrates ..	—	—	—	—	—	3,099
Norway—						
Ilmenite .. .. .	88,595	97,449	103,489	103,696	116,402	126,090
Rutile (e) .. .. .	—	16	31	18	42	3
Portugal—						
Ilmenite .. .. .	151	904	65	166	425	666
Tin-titanium ore .. .. .	44	57	42	29	67	25
Spain—						
Ilmenite .. .. .	178	370	627	688	1,259	1,554
Cameroon (French)—						
Rutile .. .. .	567	396	25	106	289	52
Egypt—						
Ilmenite .. .. .	2,593	635	256	321	1,966	753
French Equatorial Africa—						
Rutile .. .. .	—	—	6	—	—	—
French West Africa—						
Ilmenite .. .. .	3,632	8,206	776	3,740	4,549	5,677
Rutile .. .. .	—	—	—	3	25	—
United States (f)—						
Ilmenite .. .. .	342,629	359,227	418,143	478,424	471,954	458,657
Rutile .. .. .	6,589	10,704	(g) 7,000	(g) 6,000	(g) 6,000	6,094
Brazil (exports)—						
Ilmenite .. .. .	7,775	—	—	—	—	—
Rutile .. .. .	—	—	—	—	16	—
Japan (i)—						
Ilmenite .. .. .	(a)	(a)	(a)	(a)	3,564	3,050

(a) Information not available.

(b) Production of titanium dioxide slag (approx. 70% TiO<sub>2</sub>) at Sorel from the titanium ore shown above was as follows (long tons): 1950—2,007; 1951—17,538; 1952—37,626; 1953—125,886.

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

(d) Includes the content of rutile concentrates shown above.

(e) Ore and concentrates.

(f) Production of metal (commercial titanium sponge) was as follows (long tons): 1951—442; 1952—960; 1953—2,001.

(g) Estimated.

(h) Owing to high chromium and low titanium oxide content sales were as follows (long tons): 1950—50; 1951—1,253; 1952—46; 1953—nil.

(i) Production of metal (commercial titanium sponge) was as follows (long tons): 1952—14; 1953—69.

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

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Ferro-titanium ..	309	490	568	535	519	366
Canada—						
Titanium ore .. ..	(a)	482	1,119	1,446	46	4,224
Titanium dioxide slag (70% TiO <sub>2</sub> ) .. ..	—	—	—	7,176	34,850	129,823
Hong Kong (re-exports)—						
Titanium oxide ..	(a)	(a)	(a)	(a)	150	234
India—						
Ilmenite .. ..	247,221	266,063	240,783	243,811	173,107	160,993
Rutile sand .. ..	(a)	(a)	36	45	147	(a)
Malaya—						
Ilmenite (“Amang”) ..	13,566	19,718	24,915	43,493	21,698	26,570
Australia—						
Rutile .. ..	13,270	11,623	15,292	35,040	37,654	36,076
Rutile-Ilmenite ..	916	194	—	980	76	93
Zircon-Rutile .. ..	4,160	2,964	1,564	—	—	—
Zircon-Rutile-Ilmenite	180	—	4	—	—	—
<b>FOREIGN COUNTRIES</b>						
Belgium-Luxemburg						
E. U.—						
Titanium white ..	504	9	144	31	20	108
Czechoslovakia—						
Titanium white ..	(b) 414	(a)	(a)	(a)	(a)	(a)
France—						
Titanium oxide, etc. ..	169	310	740	1,109	436	964
Italy—						
Titanium oxide ..	242	287	667	1,037	1,378	2,584
Norway—						
Ilmenite (c) .. ..	91,428	79,640	119,885	94,443	113,913	120,331
Rutile .. ..	24	26	224	14	21	7
Titanium white ..	1,813	2,527	3,247	4,080	3,381	2,622
Portugal—						
Ilmenite .. ..	—	297	—	(a)	100	—
Cameroon (French)—						
Rutile .. ..	612	754	568	705	190	52
French West Africa (Senegal)—						
Ilmenite .. ..	2,690	6,300	1,413	3,921	3,173	3,804
Rutile .. ..	—	—	—	—	5	—
United States						
Ores and concentrates ..	1,298	1,344	535	577	777	2,886
Ferro-titanium ..	429	160	152	157	290	165
Titanium oxide and pigments .. ..	23,950	26,447	29,161	35,037	31,818	35,518
Brazil—						
Ilmenite .. ..	7,775	—	—	—	—	—
Rutile .. ..	—	—	—	—	16	—
Japan—						
Titanium sponge metal	—	—	—	—	7	44

(a) Information not available.

(b) January to October only.

(c) Ilmenite is not recorded separately. The figures refer to exports of “Other ores” which are mainly ilmenite.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953	
<b>BRITISH COUNTRIES</b>							
United Kingdom—							
Ilmenite .. .. .	} 57,242	{ 69,400	94,652	78,113	102,590	93,837	
Rutile .. .. .			6,514	6,686	9,102	8,152	7,463
Titanium oxide ..			(a)	(a)	(a)	163	922
Canada—							
Titanium oxide, etc.	17,541	18,565	24,219	26,471	21,612	28,482	
Hong Kong (total imports)—							
Titanium oxide ..	(a)	(a)	(a)	(a)	329	329	
Australia—							
Ilmenite (c) .. ..	(a)	(a)	3,796	5,200	5,000	7,500	
Titanium white and oxide .. .. .	(b) 734	1,634	2,780	1,689	1,583	4,816	
New Zealand—							
Titanium white ..	(a)	822	1,201	731	1,302	1,394	
<b>FOREIGN COUNTRIES</b>							
Austria—							
Titanium white ..	114	296	527	585	399	799	
Belgium-Luxemburg E.U.—							
Titanium white ..	731	850	968	1,303	1,898	2,843	
Czechoslovakia—							
Titanium white ..	—	(a)	(a)	(a)	(a)	(a)	
Finland—							
Titanium white ..	(a)	(a)	(a)	1,791	3,135	1,654	
France—							
Titanium oxide, etc. ..	140	1,123	2,100	1,650	2,002	1,976	
Iceland—							
Titanium white ..	(a)	182	103	—	(a)	(a)	
Italy—							
Ferro-titanium ..	10	63	14	52	155	79	
Titanium oxide ..	—	13	300	259	735	1,093	
Netherlands—							
Titanium oxide ..	2,002	1,895	(a)	(a)	(a)	(a)	
Titanium white ..	64	93	(a)	(a)	3,527	4,572	
Portugal—							
Ilmenite .. .. .	(a)	(a)	1	1	20	11	
Ore .. .. .	(a)	40	8	37	35	22	
Titanium oxide ..	(a)	(a)	(a)	80	132	154	
Sweden—							
Ore .. .. .	(a)	(a)	1,482	2,804	2,664	2,906	
Titanium white ..	(a)	1,696	2,864	3,274	2,977	3,723	
Mexico—							
Titanium oxide ..	591	823	1,234	1,255	1,592	1,608	
United States—							
Ilmenite .. .. .	216,177	289,425	193,267	(d) 168,821	(d) 159,297	(d) 245,844	
Rutile .. .. .	7,831	2,755	3,060	9,842	17,316	14,373	
Ferro-titanium ..	25	34	116	222	100	154	
Titanium compounds ..	11	2	608	233	32	80	
Argentina—							
Titanium oxide ..	(a)	(a)	(a)	(a)	589	23	
Brazil—							
Titanium oxide ..	412	1,151	(a)	2,067	2,385	(a)	
Peru—							
Titanium oxide ..	(a)	88	29	143	157	(a)	
Japan—							
Ilmenite .. .. .	—	1,996	7,620	25,015	5,877	21,868	

(a) Information not available.

(b) Year ended June 30 of that stated.

(c) Estimated.

(d) Including titanium dioxide slag (70% TiO<sub>2</sub>) imported from Canada.

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

Producing Country	Estimated WO <sub>3</sub> Content					
	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Great Britain—						
Concentrates .. .. .	39	65	61	51	39	52
Nigeria—						
Concentrates .. .. .	3	5	5	20	21	17
South West Africa—						
Wolfram .. .. .	4	1	13	18	99	135
Scheelite .. .. .	6	4	4	11	8	1
Tin-wolfram concentrates	—	90	94	59	(e) 70	(e) 102
Southern Rhodesia—						
Concentrates .. .. .	70	24	58	210	384	346
Tanganyika—						
Wolfram .. .. .	1	51	31	34	37	34
Uganda—						
Wolfram .. .. .	164	174	144	161	107	159
Union of South Africa—						
Concentrates .. .. .	140	374	86	172	242	376
Canada (b)						
Concentrates .. .. .	629	149	842	2	1,639	3,074
Hong Kong—						
Wolfram .. .. .	—	—	—	20	97	140
India—						
Concentrates .. .. .	—	—	—	14	10	15
Malaya—						
Wolfram .. .. .	46	28	13	28	44	99
Scheelite .. .. .	29	30	10	18	24	30
Australia—						
Wolfram (d) .. .. .	428	385	282	796	(c) 1,035	1,008
Scheelite .. .. .	651	809	801	1,031	(c) 989	1,185
New Zealand—						
Scheelite .. .. .	25	25	22	32	57	39
<b>TOTAL</b>	<b>1,563</b>	<b>1,468</b>	<b>1,176</b>	<b>1,643</b>	<b>2,715</b>	<b>3,417</b>

(c) Revised.

(e) Estimated.

(b) Shipments (chiefly scheelite).

(a) Information not available.

(d) Includes some mixed wolfram-scheelite concentrates



PRODUCTION OF TUNGSTEN ORE AND CONCENTRATES (cont.)

Producing Country	1948	1949	1950	1951	1952	1953	Estimated WO <sub>3</sub> Content					
							1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>												
Finland— Concentrates ..	3	37	15	6	40	20	2	29	11	4	28	13
France— Concentrates ..	488	634	402	697	859	1,011	335	468	270	368	460	540
Italy— Ore ..	8	3	2	7	6	5	4	2	1	5	4	3
Norway— Wolfram ..	—	—	—	—	11	8	—	—	—	—	7	5
Portugal (b)— Scheelite ..	2	9	46	123	187	256	1	6	31	80	122	166
Wolfram ..	2,576	2,368	2,358	4,337	4,371	4,054	1,674	1,539	1,532	2,820	2,841	2,635
Tin-tungsten ores ..	261	375	402	564	614	770	65	94	100	141	154	193
Spain— Concentrates ..	794	806	772	1,835	2,148	2,214	516	524	502	1,193	1,396	1,439
Tin-tungsten ores ..	(a)	(a)	110	390	396	502	(a)	(a)	(a)	(a)	(a)	(a)
Sweden— Concentrates ..	527	678	528	553	511	530	187	285	214	226	251	260
Algeria ..	—	—	—	30	72	45	—	—	—	19	46	30
Belgian Congo— Concentrates ..	215	327	194	390	620	817	140	206	126	254	403	529
Tin-tungsten ore ..	391	68	439	540	904	1,018	96	4	28	35	196	220
Egypt— Concentrates ..	15	—	—	7	19	12	9	—	—	4	12	8
French West Africa— Ore ..	—	—	—	—	—	3	—	—	—	—	—	9
Tin-tungsten ore ..	—	—	—	—	—	13	—	—	—	—	—	—
Morocco (French)— Ore ..	—	—	7	41	22	18	—	—	4	22	8	7
Mexico ..	(a)	73	62	633	1,236	(a)	80	39	40	192	263	402
United States— Concentrates ..	3,784	2,717	3,720	5,548	6,786	8,593	2,270	1,630	2,232	3,329	4,072	5,156
Argentina— Concentrates ..	32	(d) 30	(d) 20	100	600	(a)	19	18	12	60	360	(a)
Bolivia (exports)— Concentrates ..	2,240	2,261	2,422	2,675	3,650	3,676	1,467	1,502	1,467	1,605	2,189	2,259
Brazil— Scheelite ..	(c) 1,039	693	474	1,512	1,292	(a)	656	420	310	920	790	(a)

(a) Information not available. (b) In addition 460 tons of mixed Pyrites-Wolfram ore containing 10-17% WO<sub>3</sub> were produced in 1947 and 5 tons of mixed Wolfram-Scheelite (65% WO<sub>3</sub>) in 1952. (c) Exports. (d) Estimated.

PRODUCTION OF TUNGSTEN ORE AND CONCENTRATES (cont.)

Producing Country	Estimated WO <sub>3</sub> Content						
	1948	1949	1950	1951	1952	1953	1953
<b>FOREIGN COUNTRIES</b> (cont.)							
Peru— Concentrates .. ..	364	470	508	(a)	(a)	(a)	394
Burma— Tungsten concentrates ..	356	278	269	483	792	701	456
Tin-wolfram concentrates ..	2,100	600	901	1,207	1,954	1,828	730
China— Concentrates .. ..	9,180	(b) 9,000	(b) 12,400	(b) 13,000	(b) 16,200	(b) 20,000	12,000
Japan— Concentrates .. ..	7	17	22	209	581	1,020	430
Korea— South— Concentrates .. ..	1,318	1,354	794	1,136	3,729	7,294	4,741
North— Concentrates (b) .. ..	1,000	1,000	1,000	1,200	1,200	1,200	720
Siam— Concentrates .. ..	449	674	1,125	1,321	1,601	1,595	1,037
Tin-tungsten concentrates	(a)	327	—	—	—	—	—
TOTAL* .. ..	16,000	14,800	17,000	22,600	29,500	35,600	39,000
WORLD'S TOTAL* .. ..	17,600	16,300	18,200	24,200	32,200	39,000	39,000

\*Excluding tungsten ores produced in U.S.S.R.

(a) Information not available.

(b) Estimated.

EXPORTS OF TUNGSTEN, ETC.

(Domestic Produce)

(Long tons)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Tungsten ore .. ..	66	158	1	—	—	71
Ferro-tungsten .. ..	1,082	911	1,171	394	96	133
Tungsten metal etc. .. ..	110	92	149	83	22	56
Nigeria—						
Tungsten ore .. ..	3	3	5	19	46	14
Southern Rhodesia—						
Tungsten ores .. ..	75	21	30	169	399	346
South West Africa—						
Tungsten ore .. ..	18	9	21	18	128	177
Tin-tungsten ore .. ..	—	98	99	39	—	—
Tanganyika—						
Wolfram ore .. ..	1	29	52	34	40	30
Uganda—						
Wolfram ore .. ..	104	139	189	159	126	151
Union of South Africa—						
Tungsten ore .. ..	127	312	253	204	213	192
Hong Kong (re-exports)—						
Tungsten ore .. ..	3,307	3,714	2,530	192	216	149
India—						
Tungsten and tin-tungsten ores .. ..	—	—	—	5	—	—
Malaya (b)—						
Wolfram .. ..	158	87	111	213	126	129
Scheelite .. ..	36	29	11	12	27	32
Australia—						
Wolfram .. ..	345	273	147	344	968	1,250
Scheelite .. ..	879	906	253	55	1,020	987
Tungsten ore and concentrates (c) .. ..	(d) 99	120	578	1,179	21	134
New Zealand—						
Scheelite .. ..	28	28	29	39	49	45
<b>FOREIGN COUNTRIES</b>						
Portugal—						
Tungsten ore .. ..	2,650	2,500	2,597	4,082	4,329	3,797
Spain—						
Tungsten ore .. ..	558	478	706	1,402	2,913	2,746
Sweden—						
Ore .. ..	—	—	36	141	148	39
Ferro-tungsten .. ..	704	759	758	347	107	93
Algeria—						
Tungsten ore .. ..	—	—	—	(a)	71	59
Belgian Congo—						
Tungsten ores .. ..	252	176	598	466	841	1,007
Morocco (French)—						
Tungsten ore .. ..	—	—	(a)	15	17	39
Mexico—						
Tungsten ore and concentrates .. ..	390	111	111	635	1,289	1,893
(WO <sub>3</sub> content) .. ..	80	39	40	192	238	403

(a) Information not available.

(b) Including re-exports.

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

(d) Year ended June 30 of that stated.

## EXPORTS OF TUNGSTEN, ETC. (cont.)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
FOREIGN COUNTRIES						
(cont.)						
United States—						
Ore and concentrates ..	370	91	6	—	10	11
Ferro-tungsten ..	560	277	149	127	132	16
Tungsten metal, wire and alloys ..	81	48	68	111	31	91
Argentina—						
Tungsten ore ..	81	(a)	(a)	(a)	148	421
Bolivia—						
Tungsten ore ..						
(WO <sub>3</sub> content) ..	1,467	1,502	1,467	1,605	2,189	2,259
Brazil—						
Tungsten ore ..	1,039	558	690	961	180	229
(WO <sub>3</sub> content) ..	656	340	448	590	(a)	(a)
Peru—						
Tungsten ore and concentrates (WO <sub>3</sub> content) ..	139	131	393	287	224	(a)
China—						
Tungsten ore ..	12,848	(a)	(a)	(a)	(a)	(a)
Japan—						
Tungsten ore ..	(a)	(a)	262	72	—	50
Tungsten metal ..	(a)	(a)	284	(a)	(a)	36
Ferro-tungsten ..	(a)	(a)	(a)	634	5	1
Korea—						
Tungsten ore (b) ..	1,800	(a)	(a)	(a)	(a)	(a)
Siam—						
Tungsten ore ..	615	778	802	1,317	1,380	1,390

(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	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Tungsten ores .. ..	7,676	5,616	5,778	4,743	8,298	4,373
Tungsten metal etc. ..	1	1	3	3	8	3
Canada—						
Tungsten ore .. ..	74	25	25	25	(c) 50	113
Ferro-tungsten .. ..	172	135	96	450	220	28
Hong Kong (b)—						
Tungsten ore .. ..	2,402	4,810	47	—	—	—
Malaya (b)—						
Wolfram .. ..	56	15	11	84	50	15
<b>FOREIGN COUNTRIES</b>						
Austria—						
Tungsten ore .. ..	(a)	(a)	(a)	180	28	78
Ferro-tungsten .. ..	(a)	(a)	698	398	210	—
Belgium-Luxemburg						
E.U.—						
Tungsten ore .. ..	(a)	(a)	(a)	(a)	2,195	172
Ferro-tungsten .. ..	(a)	(a)	(a)	(a)	345	47
Germany (Federal)—						
Tungsten ore .. ..	4,475	678	1,790	2,872	2,142	1,003
Italy—						
Tungsten ore .. ..	(a)	(a)	(a)	(a)	37	27
Ferro-tungsten .. ..	197	252	83	77	90	96
Netherlands—						
Tungsten ore .. ..	(a)	(a)	(a)	115	147	43
Sweden—						
Tungsten ore .. ..	2,169	2,135	1,581	984	684	177
Ferro-tungsten .. ..	5	24	72	10	—	1
United States—						
Tungsten ore .. ..	7,496	5,876	12,831	5,316	16,928	25,435
(WO <sub>3</sub> content) .. ..	4,770	3,764	8,879	3,595	9,810	15,607
Tungsten metal .. ..						
(W content) (c) .. ..	—	6	94	38	1	30
Ferro-tungsten .. ..	—	28	785	901	281	336
Japan—						
Tungsten ore .. ..	(a)	(a)	9	144	2,081	144

(a) Information not available.

(b) Total imports.

(c) Revised.

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

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom— Radium compounds						
Grains .. .. .	8	1	294	118	14	37
Canada— Radium and salts £	216,439	43,920	—	—	(a)	(a)
<b>FOREIGN COUNTRIES</b>						
Portugal— Uranium ore Cwt.	1	—	—	—	—	—
Belgian Congo— Uranium minerals Cwt.	(a)	(a)	(a)	(a)	(a)	(a)
United States— Radium metals ( <i>Ra content</i> ) Mgrams.	546	428	250	8,892	1,143	1,056
Mozambique— Uranium minerals Cwt.	—	787	—	1,838	498	(a)

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

(a) Information not available.

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom— Uranium minerals Cwt.	—	—	4	—	—	—
Radium compounds Grains .. .. .	747	621	191	401	358	39
Canada— Radium .. £	90,694	18,300	115,182	125,378	22,673	154,603
<b>FOREIGN COUNTRIES</b>						
France— Radium and radium products .. Lb.	4	2	—	—	—	—
Portugal— Radium salts Mgrams.	(a)	(a)	(a)	(a)	(a)	494
Egypt— Radium .. £	6	2	—	1,000	—	—
United States— Uranium oxide and salts .. .. Cwt.	(a)	(a)	(a)	(a)	(a)	(a)
Radium salts Mgrams.	77,018	98,032	80,969	89,805	173,711	85,055
Brazil— Radium and radium products Mgrams.	1,265	221	(a)	(a)	1,363	(a)
Turkey— Uranium salts .. Lb.	4	—	—	—	2	(a)

(a) Information not available.

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

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Northern Rhodesia ..	171	151	—	86	43	—
South West Africa ..	180	160	290	521	(b) 475	490
<b>FOREIGN COUNTRIES</b>						
Argentina .. .. .	(a)	(a)	(a)	(a)	(a)	(a)
United States (shipments)	(a)	(a)	(a)	(a)	(a)	(a)
Peru .. .. .	503	414	426	645	430	358

Vanadium ore is also produced in Mexico. Vanadiferous iron concentrates (about 0.5% V) are produced in Finland and Norway.

(a) Information not available.

(b) Revised.

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

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Ferro-vanadium ..	131	87	209	58	73	125
Northern Rhodesia—						
Oxide, fused .. ..	159	131	213	120	122	7
South West Africa—						
Concentrates (b) ..	233	323	210	543	1,079	527
<b>FOREIGN COUNTRIES</b>						
Italy—						
Oxide .. .. .	(a)	(a)	—	197	187	118
Sweden—						
Ferro-vanadium ..	114	80	121	70	28	11
Mexico—						
Concentrates .. ..	56	163	89	—	234	—
Flue dust ( <i>V content</i> ) ..	—	—	61	51	167	—
United States—						
Ore and concentrates						
( <i>V content</i> ) .. .. .	11	10	1	1	54	30
Metal, alloys and scrap	1	1	2	1	46	(a)
Ferro-vanadium ..	107	87	37	55	131	70
Peru—						
Ore and concentrates						
( <i>V content</i> ) .. .. .	443	293	641	458	434	(a)

(a) Information not available.

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

**IMPORTS OF VANADIUM**

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

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Ore .. .. .	1,550	1,006	1,270	602	591	453
Oxide .. .. .	42	121	173	68	155	7
Other compounds ..	—	3	—	(940 lbs.)	3	—
<b>FOREIGN COUNTRIES</b>						
France—						
Oxide .. .. .	117	69	32	20	288	122
Italy—						
Oxide .. .. .	(a)	(a)	(a)	5	40	1
Ferro-vanadium ..	14	52	53	59	54	22
Sweden—						
Ore .. .. .	—	3	25	20	7	—
Ferro-vanadium ..	114	3	21	—	1	7
United States—						
Ore .. .. .	1,801	906	2,281	1,738	1,937	1,321
(V content) .. ..	534	246	650	439	466	320
Flue dust (V content) ..	—	—	—	—	3	2

(a) Information not available.



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

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Great Britain .. ..	—	—	35	191	1,525	1,865
Kenya (exports) .. ..	—	—	—	60	120	—
Nigeria .. ..	357	73	—	—	—	—
Northern Rhodesia (b) ..	23,940	27,180	37,668	36,259	36,728	38,708
South West Africa .. ..	11,343	12,962	11,787	14,582	15,400	15,522
Canada (b) .. ..	209,075	257,377	279,667	304,564	331,966	356,093
Newfoundland .. ..	38,633					
India .. ..	—	—	(e) 300	1,050	2,070	2,370
Australia .. ..	190,469	181,998	202,384	194,718	201,152	240,625
<b>TOTAL .. ..</b>	<b>473,800</b>	<b>479,600</b>	<b>531,800</b>	<b>551,400</b>	<b>589,000</b>	<b>655,200</b>
Irish Republic (f) .. ..	(a)	—	399	1,238	1,689	1,624
<b>FOREIGN COUNTRIES</b>						
Austria .. ..	3,104	3,770	3,960	4,613	6,055	5,814
Finland (b) .. ..	2,447	2,435	2,142	3,001	1,357	3,177
France .. ..	5,985	10,735	11,986	12,394	14,290	(e) 11,300
Germany (Federal) .. ..	33,335	56,906	69,045	74,105	79,406	89,805
Greece .. ..	2,867	3,306	3,226	4,234	4,548	5,500
Italy .. ..	72,400	70,800	83,868	94,169	103,272	96,786
Norway .. ..	6,220	6,499	5,612	5,383	5,500	5,055
Poland .. ..	(c) 85,714	(a)	(a)	(a)	(e) 125,000	(e) 140,000
Spain .. ..	43,349	51,168	65,270	74,353	86,163	81,582
Sweden .. ..	34,925	34,603	36,535	37,713	37,819	44,526
U.S.S.R. (smelter) (e)(f)	95,000	120,000	140,000	160,000	200,000	225,000
Yugoslavia .. ..	35,000	43,000	37,491	38,798	47,035	59,023
Algeria .. ..	6,030	6,396	7,064	7,116	11,300	18,728
Angola .. ..	—	—	—	350	42	92
Belgian Congo .. ..	44,894	55,919	75,107	88,138	96,926	123,809
Egypt .. ..	—	280	376	1,409	872	405
French Equatorial Africa	—	43	566	512	387	—
Morocco (French) .. ..	2,290	2,707	11,232	19,140	27,902	34,728
Tunis .. ..	2,342	3,263	2,886	3,460	3,484	3,591
Guatemala (d) .. ..	—	—	336	5,485	9,969	5,710
Mexico .. ..	176,202	175,585	220,000	177,220	223,784	213,119
Salvador .. ..	(a)	(a)	(a)	126	130	50
United States (b) .. ..	562,479	529,646	556,585	608,204	594,644	488,777
Argentina .. ..	11,996	10,748	12,498	15,230	15,153	15,835
Bolivia (exports) .. ..	20,789	17,388	19,269	30,053	35,056	23,595
Chile .. ..	(a)	(a)	(a)	(a)	(a)	2,760
Peru (b) .. ..	57,913	70,899	86,491	99,699	125,844	132,009
Burma .. ..	—	—	—	—	859	3,525
Japan .. ..	32,904	43,572	51,323	63,403	86,088	93,563
Philippine Republic .. ..	—	—	—	153	1,571	735
Turkey .. ..	2,344	192	31	401	791	3,650
<b>TOTAL (f) .. ..</b>	<b>1,340,000</b>	<b>1,395,000</b>	<b>1,590,000</b>	<b>1,720,000</b>	<b>1,940,000</b>	<b>1,930,000</b>
<b>WORLD'S TOTAL (f)</b>	<b>1,814,000</b>	<b>1,880,000</b>	<b>2,122,000</b>	<b>2,274,000</b>	<b>2,530,000</b>	<b>2,587,000</b>

(a) Information not available.  
 (b) Recoverable.  
 (c) Smelter production.

(d) Imports into the United States.  
 (e) Estimated.  
 (f) Revised.

METAL PRODUCTION OF ZINC

(Long tons)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom .. .. .	71,983	64,115	70,290	69,734	68,733	72,711
Northern Rhodesia .. .. .	22,170	22,850	22,715	22,590	22,890	25,330
Canada .. .. .	175,513	183,969	182,471	195,159	198,393	221,167
Australia .. .. .	81,312	80,956	83,652	77,010	87,438	90,178
<b>TOTAL .. .. .</b>	<b>350,978</b>	<b>351,890</b>	<b>359,128</b>	<b>364,493</b>	<b>377,454</b>	<b>409,386</b>
<b>FOREIGN COUNTRIES</b>						
Belgium .. .. .	143,881	171,335	174,525	197,713	183,849	190,372
France .. .. .	53,024	59,643	70,401	73,382	78,724	79,660
Germany (Federal) .. .. .	(b) 40,704	85,547	120,854	138,416	144,887	145,919
Italy .. .. .	25,981	26,033	37,517	46,660	53,985	59,085
Netherlands .. .. .	13,373	15,368	19,440	22,284	25,492	24,804
Norway .. .. .	41,337	40,441	42,291	40,180	38,614	38,185
Poland .. .. .	85,714	(a)	(a)	(a)	(c) 125,000	(c) 140,000
Spain .. .. .	20,869	19,242	20,928	21,008	21,021	20,822
U.S.S.R. (c) (f) .. .. .	95,000	120,000	140,000	160,000	200,000	225,000
Yugoslavia .. .. .	6,340	8,682	10,673	13,014	14,235	14,319
Belgian Congo .. .. .	—	—	—	—	—	7,678
Mexico .. .. .	47,560	52,651	48,294	51,777	54,871	53,205
United States (d) (e) .. .. .	703,361	727,484	753,096	787,172	807,571	817,951
Argentina .. .. .	1,577	2,606	(c) 7,400	(c) 8,500	(c) 8,500	(c) 11,400
Peru .. .. .	680	587	1,242	856	5,134	8,767
Japan .. .. .	20,845	31,806	48,234	55,450	67,291	75,601
<b>TOTAL (f) .. .. .</b>	<b>1,300,000</b>	<b>1,455,000</b>	<b>1,580,000</b>	<b>1,720,000</b>	<b>1,830,000</b>	<b>1,910,000</b>
<b>WORLD'S TOTAL (f)</b>	<b>1,651,000</b>	<b>1,807,000</b>	<b>1,940,000</b>	<b>2,084,000</b>	<b>2,207,000</b>	<b>2,319,000</b>

(a) Information not available.

(b) British Zone only. Including secondary.

(c) Estimated.

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

1948 .. .. .	289,856	1951 .. .. .	280,694
1949 .. .. .	212,333	1952 .. .. .	277,163
1950 .. .. .	291,098	1953 .. .. .	265,365

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

	1948	1949	1950	1951	1952	1953
A—High grade—Special .. .. .	221,737	205,871	242,570	251,403	264,108	279,295
Ordinary .. .. .	175,430	184,510	171,496	156,696	162,612	160,882
B—Intermediate grade .. .. .	34,725	19,208	19,260	18,512	15,985	13,143
C and D—Brass special .. .. .	41,023	50,346	41,723	54,028	43,587	50,196
Selected .. .. .	4,217	2,290	3,590	12,048	12,150	1,723
E—Prime Western .. .. .	281,871	314,402	334,252	337,929	358,336	359,922

(f) Revised.

**PRODUCTION OF ELECTROLYTIC ZINC\***  
(Long tons)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
Northern Rhodesia ..	15,114	15,372	14,923	10,676	18,785	17,004
Canada .. .. .	175,513	183,969	182,471	195,159	198,393	221,167
Australia (Tasmania) ..	81,312	80,956	83,652	77,010	87,438	90,178
<b>FOREIGN COUNTRIES</b>						
Belgium .. .. .	15,649	(a)	(a)	(a)	(a)	(a)
France .. .. .	23,610	24,738	30,381	31,628	34,127	(a)
Italy .. .. .	22,457	22,174	30,972	38,191	44,916	50,016
Norway .. .. .	41,337	40,441	42,491	40,180	38,612	38,185
United States .. ..	278,997	291,207	305,433	300,078	313,487	331,134
Japan .. .. .	12,397	20,681	32,193	37,642	47,896	53,798

\*This production is already included in the Metal table and is not additional.  
(a) Information not available.

**PRODUCTION OF ZINC DUST**  
(Long tons)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom ..	6,976	7,468	8,872	9,579	6,230	8,665
Northern Rhodesia ..	29	15	24	5	—	—
Australia (sales) ..	(a)	317	606	624	384	536
<b>FOREIGN COUNTRIES</b>						
Belgium .. .. .	4,232	(a)	(a)	(a)	(a)	(a)
France .. .. .	1,093	2,552	(a)	19,724	(a)	(a)
Germany (Federal) ..	1,753	2,482	4,876	6,976	4,614	3,374
United States .. ..	28,765	20,336	25,823	28,299	22,422	22,587
Japan .. .. .	(a)	(a)	(a)	(a)	2,417	3,276

(a) Information not available.

**PRODUCTION OF ROLLED ZINC SHEETS, PLATES AND STRIPS**  
(Long tons)

Producing Country	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom .. ..	27,685	25,196	28,196	21,349	16,705	21,412
<b>FOREIGN COUNTRIES</b>						
Belgium .. .. .	35,303	32,317	(a)	(a)	(a)	(a)
Poland .. .. .	(c) 37,000	(a)	(a)	(a)	(a)	(a)
United States (b) ..	69,347	51,774	62,567	59,007	47,754	50,346
Japan .. .. .	8,941	6,023	4,205	4,500	3,602	4,949

(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	
1948 .. .. .	..	13,421	1951 .. .. .	..	10,381
1949 .. .. .	..	8,105	1952 .. .. .	..	9,917
1950 .. .. .	..	12,358	1953 .. .. .	..	11,708

(c) Estimated.

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

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Ore and concentrates ..	6,078	1	311	15	10,430	2,907
Ingots, bars etc. ..	1,044	358	71	10	129	5,573
Sheets, plates, etc. ..	2,909	3,545	3,745	2,097	1,556	1,800
Oxide .. .. .	14,174	12,444	13,490	775	1,641	3,974
Lithopone, etc. ..	4,854	8,061	7,360	4,435	3,637	2,325
Kenya—						
Concentrates .. ..	—	—	—	160	297	—
Northern Rhodesia—						
Ores and concentrates ..	—	5,275	—	—	—	—
Ingots .. .. .	23,253	22,704	22,670	22,269	21,615	26,550
South West Africa—						
Ores and concentrates (b) .. .. .	9,402	24,163	31,308	(g) 11,467	(g) 15,254	(g) 13,269
Southern Rhodesia—						
Fume, dust and shavings .. ..	—	—	—	—	—	—
Union of South Africa—						
Bars, sheets, etc. ..	481	535	75	12	—	(a)
Fume, dust, shavings, etc. .. .. .	98	88	78	128	(a)	(a)
Canada (c)—						
Ore (Zn content) .. ..	48,417	95,254	115,680	138,030	162,280	172,015
Spelter .. .. .	129,363	150,274	131,143	130,475	148,986	141,418
Dross, scrap and ashes ..	6,445	5,379	4,540	4,027	3,238	3,735
Newfoundland (d)—						
Concentrates .. .. .	76,175	(d)	(d)	(d)	(d)	(d)
Hong Kong (re-exports)—						
Unwrought, incl. alloys Plates and sheets ..	1,446	1,336	1,912	1,392	1	1
Oxide .. .. .	(a)	(a)	(a)	(a)	87	61
Lithopone .. .. .	(a)	(a)	(a)	(a)	477	324
India—						
Concentrates, etc. ..	10	102	3,555	1,882	4,684	3,258
Malaya (e)—						
Bars, sheets, tubes, etc.	164	430	182	148	187	397
Australia—						
Ores and concentrates (Zn content) .. .. .	(f) 84,309	76,675	89,819	80,050	110,728	122,272
Dust .. .. .	46	58	36	5	63	46
Blocks .. .. .	33,715	33,595	43,001	20,529	44,741	36,938
Scrap and shavings ..	(f) 325	245	45	87	40	1,557
Plates and strips ..	1,535	339	1,265	228	130	59
Irish Republic—						
Ores and concentrates	(a)	(a)	(a)	(a)	2,851	3,977
<b>FOREIGN COUNTRIES</b>						
Austria—						
Ore .. .. .	2,337	5,399	5,963	302	6,875	8,856
Spelter and alloys ..	98	—	—	262	37	477
Scrap .. .. .	965	2,475	1,763	1,198	1,674	2,762
Zinc-white and zinc-grey .. .. .	—	—	—	—	—	—
Lithopone .. .. .	177	—	30	1,225	448	1,236
Belgium-Luxemburg						
E.U.—						
Ore .. .. .	41,690	41,914	35,144	45,511	35,108	26,362
Spelter .. .. .	76,847	106,641	112,021	93,688	119,278	118,769
Scrap .. .. .	778	3,476	1,823	73	68	57

(a) Information not available.

(b) Excluding zinc contained in lead concentrates.

(c) Including Newfoundland from April 1, 1949.

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

(e) Including re-exports.

(f) Years ended June 30 of year stated.

(g) Zn content.

EXPORTS OF ZINC (cont.)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b> (cont.)						
<b>Belgium-Luxemburg</b>						
<b>E.U.—(cont.)</b>						
Sheets, tubes and wire	12,564	8,277	12,701	20,914	11,744	13,843
Dust .. .. .	(a)	2,454	5,406	4,440	3,085	4,058
Oxide .. .. .	7,760	5,934	5,207	6,585	—	(a)
Lithopone .. .. .	8,693	6,921	12,020	15,159	3,624	5,641
<b>Czechoslovakia—</b>						
Ore .. .. .	(b) 2,993	(a)	(a)	(a)	(a)	(a)
Spelter, scrap and alloys	(b) 72	(a)	(a)	(a)	(a)	(a)
Sheets and plates .. .. .	(b) 267	(a)	(a)	(a)	(a)	(a)
<b>Zinc-white and zinc-grey .. .. .</b>						
Lithopone .. .. .	(b) 333	(a)	(a)	(a)	(a)	(a)
Lithopone .. .. .	(b) 1,025	(a)	(a)	(a)	(a)	(a)
<b>Denmark—</b>						
Spelter .. .. .	238	2	958	1,841	1,015	987
Scrap .. .. .	759	1,240	1,520	326	142	125
<b>Finland—</b>						
Concentrates .. .. .	10,785	8,168	5,505	6,815	2,327	5,499
Bars, sheets, scrap etc.	—	—	132	42	92	10
<b>France—</b>						
Ore .. .. .	—	—	334	2	47	4,155
Spelter, bars and scrap	37	698	3,695	535	770	539
Sheets .. .. .	1,835	3,915	3,734	2,765	2,300	1,597
Oxide .. .. .	1,614	1,699	2,450	2,065	1,538	2,669
Lithopone, etc. .. .. .	393	1,128	1,563	1,755	1,167	1,428
<b>Germany (Federal)—</b>						
Ore .. .. .	—	3	591	—	—	16,437
Spelter, dust and alloys	—	688	10,474	} 9,469	33,982	36,339
Scrap .. .. .	—	432	98			
Sheets and wire .. .. .	—	187	4,580			
Zinc-white, zinc-grey .. .. .	—	—	—	3,771	146	210
and lithopone .. .. .	16,844	33,295	47,019	51,526	30,421	43,252
<b>Greece—</b>						
Ore .. .. .	7,042	6,446	(a)	4,422	(a)	(a)
<b>Italy—</b>						
Ore .. .. .	90,304	81,970	87,439	74,414	60,536	52,566
Spelter, scrap and alloyed .. .. .	7,082	1,678	8,077	6,334	9,406	25,744
Sheets, wire and alloyed, etc. .. .. .	113	49	10	—	9	—
Oxide .. .. .	161	204	985	5,203	836	981
Lithopone .. .. .	1,647	1,972	3,656	5,307	1,988	4,381
<b>Netherlands—</b>						
Spelter .. .. .	785	5,179	10,098	17,134	16,545	19,203
Scrap .. .. .	1,103	1,172	1,446	1,398	1,213	2,038
Sheets .. .. .	758	704	2,105	927	1,459	1,014
<b>Norway—</b>						
Ore .. .. .	640	167	1,787	3,259	—	408
Electrolytic zinc	29,859	28,900	32,625	28,754	27,199	30,388
Bars, sheets, wire, etc.	2	4	345	814	166	17
Ashes and scrap .. .. .	360	460	844	1,934	1,476	1,346
<b>Poland—</b>						
Spelter, dust and scrap	(a)	(a)	(a)	(a)	(a)	(a)
Sheets, tubes and wire	(a)	(a)	(a)	(a)	(a)	(a)
Oxide .. .. .	(a)	(a)	(a)	(a)	(a)	(a)
Lithopone .. .. .	(a)	(a)	(a)	(a)	(a)	(a)
<b>Portugal—</b>						
Bars .. .. .	139	54	72	291	28	119
Zinc-white .. .. .	33	21	21	33	27	27
<b>Spain—</b>						
Ore (Blende) .. .. .	49,897	38,294	80,352	77,244	84,835	95,917
Bars, scrap, sheets, wire, etc. .. .. .	917	1,285	2,053	2,927	745	(a)

(a) Information not available.

(b) January to October only.

EXPORTS OF ZINC (cont.)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b>						
<i>(cont.)</i>						
Sweden—						
Ore .. .. .	73,506	66,244	65,932	63,003	80,030	75,186
Spelter .. .. .	10	5	2	269	194	124
Scrap .. .. .	2,123	1,640	2,576	2,366	50	225
Zinc-white .. .. .	—	—	1	34	30	283
Switzerland—						
Spelter and scrap .. .. .	1,319	1,077	2,903	4,406	2,770	3,561
Dust .. .. .	50	14	9	104	95	39
Zinc-white, etc. .. .. .	89	82	66	210	41	210
Yugoslavia—						
Concentrates .. .. .	(a)	(a)	33,798	14,615	25,057	28,235
Spelter .. .. .	(a)	(a)	1,392	2,083	7,555	3,140
Dust .. .. .	(a)	(a)	1,257	1,394	1,308	2,797
Oxide .. .. .	(a)	(a)	153	240	178	614
Lithopone .. .. .	(a)	(a)	690	711	547	793
Algeria—						
Ore .. .. .	12,752	18,039	16,691	18,338	17,519	19,819
Spelter, plates and scrap .. .. .	329	619	396	751	203	273
Oxide .. .. .	40	—	23	9	5	8
Belgian Congo—						
Ores and concentrates .. .. .	111,061	107,647	127,570	166,162	136,832	123,379
Electrolytic zinc .. .. .	—	—	—	—	30	5,739
French Equatorial Africa						
Ore .. .. .	—	3,937	4,429	5,907	1,968	—
Morocco (French)—						
Ore .. .. .	3,248	9,252	16,633	33,819	47,281	62,792
Tunis (including re-exports)—						
Ore .. .. .	5,281	5,908	5,822	8,937	5,846	2,018
Guatemala (d)—						
Ore (Zn content) .. .. .	—	—	336	5,485	9,969	5,710
Mexico—						
Ores and concentrates .. .. .	238,167	254,706	233,302	259,726	339,418	293,545
Refined .. .. .	42,376	37,695	47,695	41,400	41,519	50,786
Zn content (c) .. .. .	170,146	160,756	203,878	158,475	214,803	218,029
Oxide (metallurgical) .. .. .	4,981	3,482	11,513	13,497	7,321	1,514
do. (other) .. .. .	47	448	820	1,442	459	135
United States—						
Ore and dross (b) .. .. .	3,167	2,612	1,017	2,759	3,009	2,637
Spelter .. .. .	58,712	52,419	11,533	32,598	51,530	15,945
Scrap (b) .. .. .	(a)	1,401	5,546	4,119	868	893
Sheets, strips, etc. .. .. .	5,696	5,488	2,937	4,346	2,706	3,760
Dust .. .. .	796	616	451	645	(a)	448
Oxide .. .. .	7,716	4,500	2,762	7,942	6,799	2,652
Lithopone .. .. .	18,763	12,910	8,354	18,280	8,915	3,506
Bolivia—						
Ores (Zn content) .. .. .	20,789	17,388	19,269	30,053	35,056	26,122
Chile—						
Bars .. .. .	81	(a)	(a)	(a)	(a)	(a)
Peru—						
Ores, etc. (Zn content) .. .. .	47,523	58,453	71,705	96,866	109,685	(a)
Bars (Zn content) .. .. .	680	586	1,853	642	1,529	(a)
French Indo-China—						
Spelter, sheets and scrap .. .. .	109	56	(a)	(a)	(a)	(a)
Japan—						
Spelter .. .. .	16,512	(a)	339	6	4,112	639
Oxide and sulphide .. .. .	(a)	(a)	75	248	810	9
Lithopone .. .. .	(a)	(a)	96	617	308	250
Turkey—						
Ore .. .. .	103	165	—	1,715	1,243	54

(a) Information not available.

(b) Zn content.

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

(d) Imports into the United States.

## IMPORTS OF ZINC

(Less Re-exports)

(Long tons)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Ore and concentrates ..	156,538	197,872	196,422	179,986	193,030	165,261
Ingots, bars, etc. ..	167,733	143,043	141,914	121,879	228,835	125,567
Sheets, plates, etc. ..	14	227	414	1,045	248	(b) 547
Oxide .. .. .	49	25	51	1,982	12	7
Lithopone, etc. . . .	1,202	10,630	12,067	14,693	4,170	3,296
Anglo-Egyptian Sudan—						
Unwrought incl. scrap	6	7	11	7	—	(a)
Kenya (c)—						
Unwrought, incl. scrap	3	(b) 1	4	13	(b) 7	58
Bars, plates, sheets, etc.	17	14	14	9	15	7
Southern Rhodesia—						
Sheets, dust, etc. ..	289	250	249	141	92	116
South West Africa—						
Spelter, sheets, etc. ..	3	13	1	12	—	(a)
Tanganyika—						
Bars, sheets, scrap, etc.	14	9	8	13	19	7
Union of South Africa—						
Bars, rods and ingots ..	13,300	11,218	14,978	21,806	8,072	13,853
Sheets and strips .. .	463	392	327	713	129	(a)
Lithopone .. . . .	1,318	1,744	1,454	4,028	(a)	(a)
Oxide .. .. .	1,216	208	74	389	(a)	(a)
Dust and shavings .. .	265	6	98	77	(a)	(a)
Canada (d)—						
Dust .. .. .	213	325	185	198	216	299
Sheets, plates, bars, etc.	2,633	1,916	1,586	2,870	1,143	1,185
Zinc-white .. .. .	1,547	977	989	594	649	1,234
Lithopone .. .. .	13,203	7,269	7,280	6,171	2,817	2,990
Newfoundland (e)—						
Bars, sheets, etc. ..	22	(e)	(e)	(e)	(e)	(e)
Ceylon—						
Blocks, ingots, etc. ..	—	5	—	—	13	19
Sheets and plates .. .	16	29	25	29	36	29
Hong Kong (total imports)—						
Unwrought, incl. scrap	1,097	1,656	1,835	2,841	11	42
Sheets and plates .. .	(a)	(a)	(a)	(a)	1,059	1,771
Oxide .. .. .	(a)	(a)	(a)	(a)	17	63
Lithopone .. .. .	(a)	(a)	(a)	(a)	488	2,708
India—						
Spelter .. .. .	32,723	31,769	30,583	17,167	23,821	23,980
Sheets, etc. .. .. .	1,722	1,902	2,826	2,842	1,496	1,849
Zinc-white .. .. .	1,558	823	91	16	15	15
Lithopone .. .. .	1,462	1,349	1,425	2,873	2,184	773
Malaya (total imports)—						
Sheets .. .. .	538	781	1,039	1,053	450	(f) 1,856
Pakistan (h)—						
Spelter .. .. .	(a)	(a)	(a)	54	277	307
Zinc-white .. .. .	(a)	(a)	(a)	45	277	194
Lithopone .. .. .	(a)	(a)	(a)	689	597	374
Australia—						
Dust .. .. .	(£43)	—	—	9	—	(g) 3
Blocks, sheets, scrap, etc. .. .. .	115	165	131	196	403	(g) 32
Oxides .. .. .	20	428	(g) 401	33	49	80
Lithopone .. .. .	2,088	4,069	2,467	3,666	3,236	871

(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.

(f) Including bars, tubes, etc.

(g) Year ended June 30 of that stated.

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

## IMPORTS OF ZINC (cont.)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
<i>(cont.)</i>						
<b>New Zealand—</b>						
Spelter, bars and rods ..	946	790	910	1,261	879	499
Sheets and plates ..	166	194	309	219	233	169
Zinc-white .. ..	(a)	636	1,154	980	707	188
Lithopone .. ..	(a)	602	495	244	1,016	189
<b>Irish Republic—</b>						
Ingots and bars ..	—	—	235	122	(a)	(a)
Sheets and plates ..	435	509	444	132	(a)	(a)
Zinc-white .. ..	765	614	740	864	150	(a)
<b>FOREIGN COUNTRIES</b>						
<b>Austria—</b>						
Spelter and alloys ..	1,722	8,146	5,954	7,021	5,530	5,532
Sheets, bars, etc. ..	29	11	4	24	3	11
Zinc-white and zinc-grey .. ..	—	599	115	202	96	28
Lithopone .. ..	8	676	297	—	8	15
<b>Belgium-Luxembourg</b>						
<b>E.U.—</b>						
Ore .. ..	363,685	370,939	397,316	445,478	491,061	353,513
Spelter .. ..	1,981	346	2,253	6,409	865	1,267
Scrap .. ..	778	3,476	350	424	168	145
Sheets, tubes and wire	17	7	156	52	82	187
Dust .. ..	(a)	236	25	3	—	9
Oxide .. ..	64	190	543	973	658	1,166
Lithopone .. ..	270	759	2,386	1,467	1,428	1,652
<b>Czechoslovakia—</b>						
Spelter and alloys ..	(b) 19,879	(a)	(a)	(a)	(a)	(a)
Scrap .. ..	(b) —	(a)	(a)	(a)	(a)	(a)
Zinc-white, zinc-grey, etc. .. ..	(b) 1,006	(a)	(a)	(a)	(a)	(a)
<b>Denmark—</b>						
Spelter .. ..	5,636	7,441	6,503	7,394	2,415	3,918
Scrap .. ..	127	95	34	45	38	58
Plates, sheets and wire	5,078	3,368	5,378	4,538	3,729	4,941
Zinc-white .. ..	3,129	2,191	3,029	1,966	1,329	1,905
Lithopone .. ..	2,325	1,942	3,420	3,343	1,610	1,687
<b>Finland (total imports)—</b>						
Spelter .. ..	1,684	3,201	4,251	4,236	3,572	3,314
Scrap .. ..	50	1	7	1	10	52
Sheets .. ..	461	1,104	618	643	455	339
Zinc-white .. ..	1,049	1,766	1,708	1,845	1,320	774
Lithopone .. ..	(a)	(a)	(a)	1,403	798	940
<b>France—</b>						
Ore .. ..	56,946	75,086	151,871	127,938	184,593	163,295
Spelter .. ..	35,632	47,619	27,096	37,609	42,925	13,911
Scrap .. ..	629	648	1,691	463	649	293
Dust .. ..	1,629	1,162	650	815	352	2,634
Sheets .. ..	161	—	6	170	82	7
Oxide .. ..	2,107	3,278	839	5,668	2,213	612
Lithopone .. ..	2,021	3,142	5,028	10,359	3,873	8,575
<b>Germany (Federal)—</b>						
Ores .. ..	—	—	31,319	77,103	79,673	47,911
Spelter, dust, scrap and alloys .. ..	10,866	12,125	6,346	10,059	19,788	24,836
Sheets and wire ..	(a)	364	1	157	2	2
Zinc-white and zinc-grey .. ..	(a)	(a)	205	52	124	1,155
Lithopone .. ..	12	—	—	30	100	1,732
<b>Greece—</b>						
Spelter, etc. .. ..	411	1,059	860	477	977	1,406
<b>Iceland—</b>						
Zinc-white .. ..	(a)	81	100	10	(a)	(a)

(a) Information not available.

(b) January to October only.



## IMPORTS OF ZINC (cont.)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>FOREIGN COUNTRIES</b> (cont.)						
<b>Italy—</b>						
Ore .. .. .	—	—	—	—	1,021	2,671
Spelter, matte, scrap and alloyed .. .. .	1,513	3,495	4,684	2,780	6,379	3,924
Sheets, wire, etc. and alloyed .. .. .	295	662	102	—	—	—
Oxide .. .. .	346	608	775	730	166	141
Lithopone .. .. .	145	—	10	30	69	32
<b>Netherlands—</b>						
Ore .. .. .	24,676	50,761	45,260	53,518	83,159	55,482
Spelter .. .. .	8,042	9,017	10,809	8,373	4,997	9,906
Scrap .. .. .	101	24	244	63	144	218
Sheets .. .. .	585	1,135	3,576	3,878	3,294	4,306
Oxide and zinc-white .. .. .	3,983	3,696	4,334	2,584	1,131	1,656
Lithopone .. .. .	134	480	1,403	484	637	769
<b>Norway—</b>						
Ore .. .. .	61,013	74,106	70,112	88,475	58,119	47,884
Ashes and scrap .. .. .	300	443	685	563	626	—
Spelter .. .. .	15	—	472	562	1,221	311
Bars and sheets .. .. .	86	96	66	68	77	266
Zinc-white .. .. .	1,232	1,746	172	793	542	369
Lithopone .. .. .	452	544	98	818	343	616
<b>Portugal—</b>						
Spelter, scrap and dust .. .. .	1,069	1,289	1,432	674	807	1,288
Oxide .. .. .	1,260	1,370	1,094	841	850	909
Lithopone .. .. .	586	610	835	928	1,209	1,024
<b>Spain—</b>						
Bars and scrap .. .. .	98	915	897	14	21	(a)
<b>Sweden—</b>						
Spelter .. .. .	19,484	21,292	19,888	20,291	26,968	20,563
Scrap .. .. .	59	58	90	29	31	46
Sheets .. .. .	3,036	2,248	2,316	3,800	1,186	1,287
Zinc-white .. .. .	7,150	5,038	8,221	4,526	3,081	4,389
Lithopone, etc. .. .. .	5,634	4,430	6,851	8,532	4,612	5,889
<b>Switzerland—</b>						
Spelter and scrap .. .. .	14,903	7,596	7,292	17,224	11,319	9,849
Dust .. .. .	605	596	1,071	1,170	783	736
Bars, sheets, pipes and wire .. .. .	1,432	965	1,546	2,409	1,003	1,248
Zinc-white, lithopone, etc. .. .. .	4,987	4,231	7,055	7,668	4,493	6,461
<b>Algeria—</b>						
Spelter, sheets and scrap .. .. .	557	831	776	696	630	590
Oxide .. .. .	614	469	601	692	515	449
Lithopone, etc. .. .. .	284	227	455	513	516	668
<b>Angola—</b>						
Bars, sheets and tubes .. .. .	(a)	(a)	(a)	(a)	(a)	(a)
<b>Egypt—</b>						
Spelter, sheets and scrap .. .. .	408	726	487	775	376	672
Zinc-white .. .. .	1,366	646	620	235	185	276
Lithopone .. .. .	154	1,042	2,664	1,370	2,127	2,395
<b>Madagascar—</b>						
Spelter, bars and sheets .. .. .	65	(a)	(a)	(a)	(a)	(a)
Oxide .. .. .	44	(a)	(a)	(a)	(a)	(a)
<b>Morocco (French)—</b>						
Spelter, sheets and wire .. .. .	50	35	46	(a)	443	(a)
Lithopone .. .. .	309	377	604	(a)	811	(a)
<b>Morocco (Spanish)—</b>						
Spelter and sheets .. .. .	(a)	(a)	(a)	(a)	(a)	(a)
Lithopone .. .. .	(a)	(a)	(a)	(a)	(a)	(a)
<b>Mozambique—</b>						
Spelter, bars and sheets .. .. .	19	16	13	11	8	(a)
Oxide .. .. .	30	20	25	13	13	(a)

(a) Information not available.

## IMPORTS OF ZINC (cont.)

Importing Country and Description	1948	1949	1950	1951	1952	1953
FOREIGN COUNTRIES (cont.)						
Tunis—						
Sheets .. .. .	88	(a)	(a)	(a)	(a)	(a)
Cuba (total imports)—						
Spelter .. .. .	290	166	163	183	(a)	(a)
Sheets .. .. .	106	93	109	148	(a)	(a)
Mexico—						
Spelter, sheets and scrap	473	165	116	36	129	(a)
Zinc-white .. .. .	4	73	35	14	67	(a)
United States—						
Ore (Zn content) .. .. .	166,829	148,844	221,982	214,085	520,330	414,318
Spelter .. .. .	82,631	112,111	138,665	78,557	100,938	203,209
Dross and scrap .. .. .	9,172	3,332	2,530	5,895	3,118	5,281
Sheets .. .. .	107	28	189	133	42	175
Dust .. .. .	36	15	421	138	118	933
Oxide .. .. .	24	213	4,549	1,591	155	1,059
Lithopone .. .. .	—	11	1,073	709	9	26
Argentina—						
Spelter and bars .. .. .	11,460	10,598	1,406	1,170	4,155	197
Sheets and plates .. .. .	(a)	(a)	(a)	(a)	491	1,268
Zinc-white .. .. .	(a)	(a)	(a)	(a)	73	—
Brazil (total imports)—						
Bars, sheets and plates ..	4,875	9,598	10,394	12,534	10,240	12,428
Zinc-White .. .. .	3,873	3,378	(a)	4,544	3,355	(a)
Chile—						
Spelter .. .. .	1,123	1,475	1,451	2,916	1,986	(a)
Colombia—						
Spelter, sheets, alloys, etc. .. .. .	(a)	340	339	(a)	(a)	(a)
Zinc-white, etc. .. .. .	(a)	446	593	(a)	(a)	(a)
Peru—						
Spelter, bars, sheets and powder .. .. .	(a)	71	78	23	15	(a)
Zinc-white and lithopone .. .. .	266	603	427	384	317	(a)
Uruguay—						
Spelter .. .. .	268	418	500	563	(a)	(a)
Lithopone .. .. .	812	297	305	370	(a)	(a)
Zinc-oxide .. .. .	318	216	351	180	(a)	(a)
Venezuela—						
Spelter .. .. .	100	1	(a)	(a)	(a)	(a)
Zinc-white .. .. .	385	180	(a)	(a)	(a)	(a)
Lithopone .. .. .	54	180	(a)	(a)	(a)	(a)
China—						
Spelter and dust .. .. .	(a)	(a)	(a)	(a)	(a)	(a)
Zinc-white .. .. .	(a)	(a)	(a)	(a)	(a)	(a)
Iran (total imports) (b)—						
Spelter, sheets and wire	(a)	(a)	(a)	20	(a)	(a)
Iraq—						
Spelter, sheets, etc. ..	21	14	7	5	(a)	(a)
Israel—						
Spelter and sheets .. .. .	(a)	1,362	1,096	(a)	(a)	(a)
Lithopone .. .. .	(a)	—	218	(a)	(a)	(a)
Japan—						
Ore .. .. .	1,746	—	403	11,515	15	2,367
Spelter .. .. .	(a)	(a)	1,397	12,153	1,936	7,177
Scrap .. .. .	(a)	(a)	80	1,787	235	1,797
Dross .. .. .	(a)	(a)	23,200	12,088	311	1,346
Plates and sheets .. .. .	(a)	(a)	117	89	99	7
Turkey—						
Spelter .. .. .	113	196	38	169	251	(a)
Bars, tubes and wire .. ..	1,239	2,396	2,237	1,341	2,301	(a)
Oxide .. .. .	1,050	1,325	637	566	1,118	(a)
Lithopone .. .. .	463	883	1,199	1,322	1,597	(a)

(a) Information not available.

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

## ZIRCONIUM MINERALS

### PRODUCTION OF ZIRCONIUM MINERALS

(Long tons)

Producing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
India .. .. .	(a)	(a)	(a)	(a)	(a)	(a)
Australia—						
Zircon (b) .. .. .	21,889	20,675	21,535	43,816	30,319	(a)
Zircon concentrates (c)	19,063	18,873	21,805	42,410	29,691	28,629
<b>FOREIGN COUNTRIES</b>						
Egypt .. .. .	93	126	93	3	118	235
French West Africa ..	188	241	—	21	—	935
Madagascar .. .. .	—	—	—	—	4	—
Brazil .. .. .	(d) 3,581	(d) 2,243	2,968	3,441	3,909	(d) 1,255

Zircon is also produced in the United States.

(a) Information not available.

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

(c) Zircon content included above and not additional.

(d) Exports.

### EXPORTS OF ZIRCONIUM MINERALS

(Domestic Produce)

(Long tons)

Exporting Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
India—						
Zircon sand .. .. .	(a)	(a)	(a)	(a)	(a)	(a)
Australia—						
Zircon concentrates ..	12,887	17,783	19,609	38,485	26,083	31,173
Zircon-rutile .. .. .	4,160	2,964	1,564	—	—	—
Zircon-rutile-ilmenite ..	180	—	4	—	—	—
<b>FOREIGN COUNTRIES</b>						
French West Africa—						
Zircon .. .. .	70	—	69	21	—	30
United States—						
Ores and concentrates ..	278	273	468	330	522	991
Brazil .. .. .	3,581	2,243	950	2,360	2,165	1,255

(a) Information not available.

**IMPORTS OF ZIRCONIUM MINERALS**  
(Less Re-exports)  
(Long tons)

Importing Country and Description	1948	1949	1950	1951	1952	1953
<b>BRITISH COUNTRIES</b>						
United Kingdom—						
Zirconium ores ..	2,654	2,495	2,769	5,690	3,454	4,548
Canada—						
Zirconium oxide ..	(£8,541)	(£14,725)	(£11,222)	(£7,834)	(£8,579)	(£8,216)
Zirconium silicate ..	(£12,239)	(£20,516)	(£26,319)	(£29,950)	(£38,340)	(£47,139)
<b>FOREIGN COUNTRIES</b>						
United States—						
Zirconium ore (b) ..	14,973	18,601	15,023	24,367	21,345	22,025
Zircon (c) ..	12,387	13,055	13,480	21,944	19,196	(a)
Baddeleyite (d)..	3,172	1,780	622	1,861	1,761	1,076

(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	1948	1949	1950	1951	1952	1953
<b>SELENIUM</b>						
<b>PRODUCTION—</b>						
Northern Rhodesia Lb.	21,132	20,958	27,056	9,772	31,758	46,320
Canada .. .. Lb.	390,894	318,225	261,973	382,603	242,030	262,346
Australia .. Lb.	1,656	1,362	2,394	1,924	(d) 2,000	3,791
Belgium (exports) Lb.	(a)	(a)	(a)	24,251	37,479	61,729
Finland .. Lb.	2,075	2,793	1,517	3,146	5,758	7,225
Sweden (exports) Lb.	50,521	21,305	83,776	90,390	98,291	110,231
Mexico .. .. Lb.	(a)	(a)	1,458	—	—	2,798
United States (e) Lb.	557,402	441,898	558,931	494,912	(f) 687,384	923,887
Japan .. .. Lb.	10,055	20,163	32,196	43,998	58,694	65,572
<b>EXPORTS—</b>						
Canada (b) .. Lb.	447,885	343,784	542,401	370,473	244,121	253,620
Belgium-Lux. E.U. Lb.	(a)	(a)	(a)	24,251	37,479	61,729
Sweden .. Lb.	50,521	21,305	83,776	90,390	98,291	110,231
Mexico .. .. Lb.	(a)	—	1,457	(a)	—	2,798
Japan .. .. Lb.	(a)	(a)	(a)	48,061	45,237	(a)
<b>IMPORTS—</b>						
United Kingdom Lb.	150,350	137,791	197,873	191,656	178,520	213,128
Belgium-Lux. E.U. Lb.	(a)	(a)	(a)	—	33,069	2,205
Czechoslovakia Lb.	(c) 2,205	(a)	(a)	(a)	(a)	(a)
France (h) .. Lb.	(a)	46,959	9,259	39,904	50,045	44,754
Sweden .. .. Lb.	1,241	2,513	—	—	534	—
United States .. Lb.	267,118	171,581	363,312	246,552	123,135	99,865
Brazil .. .. Lb.	9,270	7,496	(a)	(a)	2,575	(a)
Peru (b) .. .. Lb.	18	—	231	2	—	(a)
<b>TELLURIUM</b>						
<b>PRODUCTION—</b>						
Canada .. .. Lb.	11,425	11,692	10,075	8,913	6,035	4,694
United States (g) Lb.	56,915	120,725	107,364	187,148	189,076	70,446
<b>VERMICULITE</b>						
<b>PRODUCTION—</b>						
Kenya .. .. Ton	—	5	4	3	—	73
Southern Rhodesia Ton	16	947	700	494	—	—
Union of South Africa Ton	12,329	20,861	41,753	24,120	32,641	30,218
Australia .. Ton	151	162	120	55	62	29
India .. .. Ton	—	—	52	232	22	—
United States (sales) Ton	123,781	150,731	185,800	186,614	186,523	169,228
<b>EXPORTS—</b>						
Union of South Africa Ton	7,636	10,342	21,762	19,069	27,138	30,646
Southern Rhodesia Ton	—	206	374	234	28	146
<b>IMPORTS—</b>						
Canada .. .. £	31,970	52,408	86,368	103,505	117,340	118,779
France .. .. Ton	(a)	(a)	(a)	500	2,598	3,636
Mexico .. .. Ton	124	158	99	126	797	343

(a) Information not available.

(b) Including salts.

(c) January to October only.

(d) Estimated.

(e) 1948 to 1951 revised to include selenium content of compounds.

(f) In addition, 66,781lb. of secondary selenium was recovered.

(g) 1948 to 1951 revised to include tellurium content of compounds.

(h) Including tellurium.

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